HYDROLOGIC STUDY REPORT

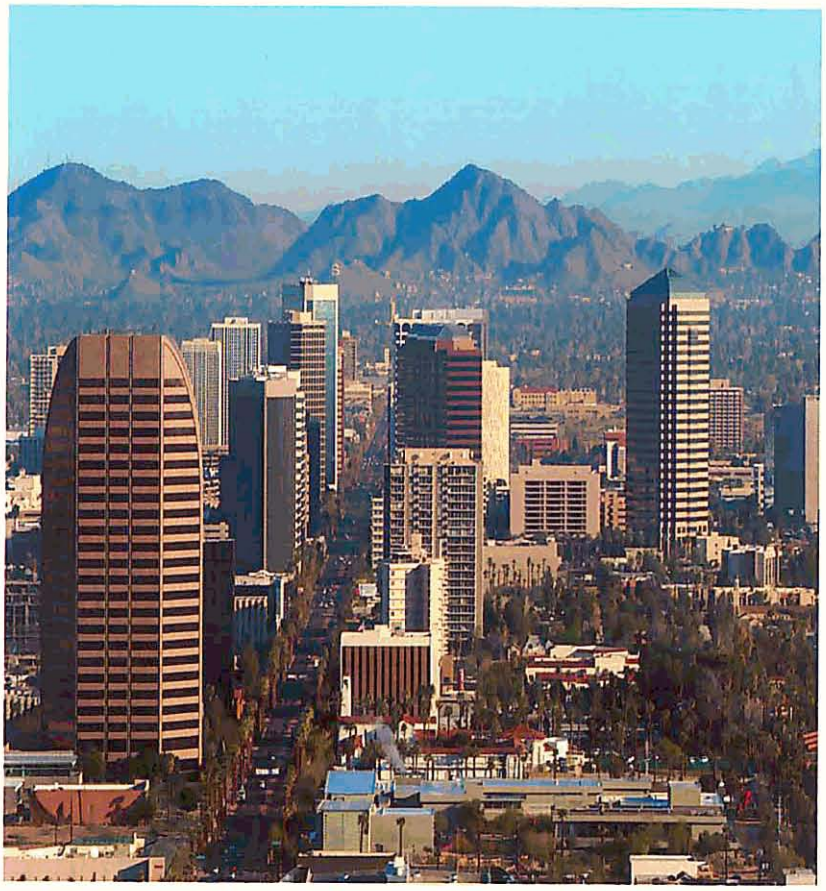
FOR

METRO PHOENIX AREA DRAINAGE MASTER STUDY/PLAN

FCD CONTRACT 2004 C040

October 2006

(Volume 2 of 3)



Prepared for:

Flood Control District of Maricopa County

And

City of Phoenix

Prepared by:

WOOD/PATEL

In Association With:

eec

HYDROLOGIC STUDY REPORT

FOR

METRO PHOENIX AREA DRAINAGE MASTER STUDY/PLAN

CONTRACT FCD 2004C040

October 2006

WP #052349

(Volume 2 of 3)

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ACKNOWLEDGMENTS

Wood, Patel & Associates, Inc. (Wood/Patel), in association with Engineering and Environmental Consultants, Inc. (EEC), is pleased to have represented the Flood Control District of Maricopa County (FCDMC) and the City of Phoenix in the preparation of the hydrologic study for the Metro Phoenix Area Drainage Master Study/Plan (Metro ADMS/P). This professional assignment presented many interesting and unique challenges requiring creative teamwork solutions.

Many people have made significant contributions to this study, especially those with the hydrologic study team: Mr. Afshin Ahouraiyan, Mr. Steven Tucker, and Mr. Richard Harris from the FCDMC; Mr. Hasan Mushtaq from the City of Phoenix; Mr. Mark Gavan, Mr. Lloyd Vick, and Mr. Charles Griffith from EEC, Inc., who provided critical technical support and decision-making guidance throughout the study phase. Their individual and group contributions represent a key role in the successful and timely completion of this study. We sincerely enjoyed these relationships and look forward to the planning phase.

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EXHIBITS

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W:\2005Projects\052349_Metro Phoenix ADMS\Hydrology\Report\Report\052349 Metro Phoenix ADMS-P Report 10-8-06 Final.doc

APPENDIX B

HEC-1 Model Output File for the 100-Year, 24-Hour Storm

```
1****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*              JUN   1998              *
*           VERSION 4.1                *
*                                      *
*  RUN DATE   11JUL06  TIME  09:16:42  *
*                                      *
****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   Project ID: METRO ADMS/P - Major Basin: 01 - Return Period: 100 Years
  2           ID   METRO PHOENIX ADMS/P - FCD2004C040: Wood/Patel in association with EEC
  3           ID   100-Year 24-Hour Storm
  4           ID   SCS Type II Precipitation Distribution
  5           ID   Green and Ampt Loss Method
  6           ID   Clark Unit Hydrograph
  7           ID   Future Land Use Conditions
  8           ID   Model Name: FC24BASE.DAT, June 2006
  9           ID
 10           ID  ******************************************************************************
 11           ID   Important Notes:
 12           ID   1)  Peak flow for each subbasin may not concentrate on one single point,
 13           ID       for illustration purposes, it is assumed that the concentration point
 14           ID       is located on the hydrologic low point of the subbasin;
 15           ID   2)  Surface flow diversions may occur at several locations along one of the
 16           ID       subbasin downstream boundaries.  For simplicity, one split flow is
 17           ID       modeled for each subbasin to one direction;
 18           ID   3)  A fixed flow split ratio for most of the subbasin is used for all
 19           ID       frequencies except some of the subbasins along Grand Canal.
 20           ID   4)  Some subbasins have multiple pipes to one direction, a composite storm
 21           ID       drain pipe may have been used to model these conditions;
 22           ID   5)  Some subbasins have multiple detention/retention basins, an equivalent
 23           ID       detention/retention basin may have been used to model these conditions;
 24           ID   6)  Surface flow routing may occur at multiple streets and as sheet flow,
 25           ID       a composite channel cross section is used to represent the streets
 26           ID       flow conveyance.
 27           ID
 28           ID  ******************************************************************************
 29           ID   HEC-1 ELEMENT NOMENCLATURE
 30           ID
 31           ID   SUB-BASIN HYDROGRAPH:
 32           ID      Example: "80c" is the hydrograph from subbasin 80c
 33           ID
 34           ID   SUB-BASIN FLOW DIVERSION:
 35           ID      Example: "D80cS" is the south component of diversion in Subbasin 80c
 36           ID
 37           ID   PIPE FLOW DIVERSION:
 38           ID      Example: "80cP" is the pipe flow from Subbasin 80c
 39           ID
 40           ID   PIPE FLOW ROUTING:
 41           ID      Example: "P80cS" is the south component of pipe routing from Subbasin 80c
 42           ID
 43           ID   CHANNEL ROUTE:
 44           ID      Example: "R80cS" is the south component of surface flow routing from 80c
 45           ID
 46           ID   STORAGE ROUTE:
 47           ID      Example: "S80c" is the storage routing in Subbasin 80c
 48           ID
```

```
 49          ID   HYDROGRAPH COMBINE:
 50          ID      Example: "C80c" is the combined flow in Subbasin 80c
 51          ID
 52          ID   HYDROGRAPH RETRIEVAL:
 53          ID      Example: "B80c" is the retrieved flow from Subbasin 80c
 54          ID
 55          ID   "DUMMY" COMBINE:
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 56          ID      Example: "NUL80C" is the dummy hydrograph combining to free up a HEC-1
 57          ID               computational path.
 58          ID   ******************************************************************************
 59          ID
 60          IT       5                    2000
 61          IN      15
 62          IO       5
             *DIAGRAM
             *
 63          JD    3.90    0.01
 64          PC   0.000   0.002   0.005   0.008   0.011   0.014   0.017   0.020   0.023   0.026
 65          PC   0.029   0.032   0.035   0.038   0.041   0.044   0.048   0.052   0.056   0.060
 66          PC   0.064   0.068   0.072   0.076   0.080   0.085   0.090   0.095   0.100   0.105
 67          PC   0.110   0.115   0.120   0.126   0.133   0.140   0.147   0.155   0.163   0.172
 68          PC   0.181   0.191   0.203   0.218   0.236   0.257   0.283   0.387   0.663   0.707
 69          PC   0.735   0.758   0.776   0.791   0.804   0.815   0.825   0.834   0.842   0.849
 70          PC   0.856   0.863   0.869   0.875   0.881   0.887   0.893   0.898   0.903   0.908
 71          PC   0.913   0.918   0.922   0.926   0.930   0.934   0.938   0.942   0.946   0.950
 72          PC   0.953   0.956   0.959   0.962   0.965   0.968   0.971   0.974   0.977   0.980
 73          PC   0.983   0.986   0.989   0.992   0.995   0.998   1.000
 74          JD   3.666      10
 75          JD   3.510      30
 76          JD   3.354      60
 77          JD   3.299      90
             *

 78          KK     64c   BASIN
 79          KM    Subbasin at NEC(northeast corner) of Northern Ave. & Central Ave.
 80          BA   0.264
 81          LG    1.00    0.24    4.55    0.41      20
 82          UC   0.772   0.579
 83          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 84          UA     100
             *

 85          KK   D64cW  DIVERT
 86          KM    Divert 68% of surface flow to south.
 87          DT   D64cS
 88          DI       0     100    1000   10000
 89          DQ       0      68     678    6776
             *

 90          KK   R64cW   ROUTE
 91          KM    Route surface flow west from Subbasin 64c to Subbasin 68c.
 92          RS       5    FLOW      -1
 93          RC   0.050   0.016   0.050    2640  0.0045
 94          RX       0     1.3      52   127.4   132.6     208   258.7     260
 95          RY       3       1     0.5       0       0     0.5       1       3
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 96          KK     68c   BASIN
 97          KM    Subbasin at NEC corner of Northern Ave. & 7th Ave.
 98          BA   0.434
 99          LG    1.68    0.25    4.60    0.39      18
100          UC   0.767   0.493
101          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
102          UA     100
             *

103          KK    C68c COMBINE
104          KM    Combine hydrographs 68c and R64cW at Northern and Central Avenues.
105          HC       2    0.70
             *

106          KK    D68c  DIVERT
107          KM    Divert 41 cfs into pipe (south).
108          DT   D68cP
109          DI       0      41    1000   10000
110          DQ       0      41      41      41
             *
```

```
111          KK   D68cW  DIVERT
112          KM    Divert surface flow to south.
113          DT   D68cS
114          DI       0     100    1000   10000
115          DQ       0      46     458    4576
             *

116          KK   R68cW   ROUTE
117          KM    Route surface flow west from Subbasin 68c to Subbasin 72c.
118          RS       4    FLOW      -1
119          RC   0.050   0.016   0.050    2640  0.0023
120          RX       0    1.85      74   181.3   188.7     296  368.15     370
121          RY       3       1     0.5       0       0     0.5       1       3
             *

122          KK     72c   BASIN
123          KM    Subbasin at NEC corner of Northern Ave. & 15th Ave.
124          BA   0.542
125          LG    1.94    0.25    4.80    0.35      13
126          UC   1.127   0.855
127          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
128          UA     100
             *

129          KK    C72c COMBINE
130          KM    Combine hydrographs 72c and R68cW at Northern and 15th Avenues.
131          HC       2    1.24
             *
1                                          HEC-1 INPUT                                          PAGE  4

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

132          KK    D72c  DIVERT
133          KM    Divert 90 cfs into pipe (south).
134          DT   D72cP
135          DI       0      90    1000   10000
136          DQ       0      90      90      90
             *

137          KK   D72cW  DIVERT
138          KM    Divert 90% surface flow to south.
139          DT   D72cS
140          DI       0     100    1000   10000
141          DQ       0      90     900    9000
             *

142          KK   R72cW   ROUTE
143          KM    Route surface flow west from Subbasin 72c to Subbasin 76c.
144          RS       9    FLOW      -1
145          RC   0.050   0.016   0.050    2640  0.0008
146          RX       0    2.05      82   200.9   209.1     328  407.95     410
147          RY       3       1     0.5       0       0     0.5       1       3
             *

148          KK     76C   BASIN
149          KM    Subbasin at NEC corner of Northern Ave. & 19th Ave.
150          BA   0.602
151          LG    0.77    0.19    6.60    0.17      18
152          UC   0.754   0.475
153          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
154          UA     100
             *

155          KK    C76c COMBINE
156          KM    Combine hydrographs 76c and R72cW at Northern and 19th Avenues.
157          HC       2    1.84
             *

158          KK   D76cP  DIVERT
159          KM    Divert 39 (68% of 58) cfs into 19th Ave pipe (south).
160          DT    D76c
161          DI       0      39     100    1000   10000
162          DQ       0       0      61     961    9961
             *

163          KK     84c   BASIN
164          KM    Subbasin at NWC(northwest corner) of Northern Ave. & 23rd Ave.
165          BA   0.467
166          LG    0.24    0.25    6.00    0.23      42
167          UC   0.962   0.864
168          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
169          UA     100
             *
1                                          HEC-1 INPUT                                          PAGE  5
```

Metro ADMS/P 100-Year, 24-Hour Model

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK   D84cE  DIVERT
 171          KM    Divert surface flow to south.
 172          DT   D84cS
 173          DI       0     100    1000   10000
 174          DQ       0      77     768    7682
              *

 175          KK   R84cE   ROUTE
 176          KM    Route surface flow east from Subbasin 84c to Subbasin 80c.
 177          RS       4    FLOW      -1
 178          RC   0.050   0.016   0.050    2640  0.0008
 179          RX       0     0.5      20      49      51      80    99.5     100
 180          RY       3       1     0.5       0       0     0.5       1       3
              *

 181          KK     80c   BASIN
 182          KM    Subbasin at NEC corner of Northern Ave. & 15th Ave.
 183          BA   0.661
 184          LG    0.83    0.25    5.20    0.33      33
 185          UC   0.866   0.567
 186          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 187          UA     100
              *

 188          KK    S80c STORAGE
 189          KM    Online Local Retention Basin, 4 ac-ft.
 190          RS       1    STOR       0
 191          SV       0       1     2.6     4.3      11
 192          SE       0       1       2       3       5
 193          SS       3     100     2.7     1.5
              *

 194          KK    C80c COMBINE
 195          KM    Combine hydrographs 80c and R84cE at Northern and 19th Avenues.
 196          HC       2    1.13
              *

 197          KK   D80cP  DIVERT
 198          KM    Divert 19 (32% of 58) cfs into 19th Ave pipe (south).
 199          DT    D80c
 200          DI       0      19     100    1000   10000
 201          DQ       0       0      81     981    9981
              *

 202          KK   C76cP COMBINE
 203          KM    Combine hydrographs into Storm Drain at Northern and 19th Avenues.
 204          HC       2    2.97
              *
1                                        HEC-1 INPUT                                        PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 205          KK   P76cS   ROUTE
 206          KM    Route pipe flow from Northern/19th Ave. to Glendale/19th Ave.
 207          RK    5300  0.0044   0.015            CIRC    3.50
              *

 208          KK  D76eP1  DIVERT
 209          KM    Divert 32% of pipe flow to 80e from 80c.
 210          DT  D80eP1
 211          DI       0     100    1000   10000
 212          DQ       0      32     320    3200
              *

 213          KK     56e   BASIN
 214          KM    Subbasin at NEC of Glendale Ave. & 12th St.
 215          BA   0.176
 216          LG    1.72    0.24    4.35    0.47      18
 217          UC   0.604   0.408
 218          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 219          UA     100
              *

 220          KK   D56eW  DIVERT
 221          KM    Divert surface flow to south.
 222          DT   D56eS
 223          DI       0     100    1000   10000
 224          DQ       0      53     525    5253
              *

 225          KK   R56eW   ROUTE
 226          KM    Route surface flow west from Subbasin 56e to Subbasin 60e.
```

```
227          RS       6    FLOW      -1
228          RC   0.050   0.016   0.050    2640  0.0053
229          RX       0    1.75      70   171.5   178.5     280  348.25     350
230          RY       3       1     0.5       0       0     0.5       1       3
             *

231          KK     60e   BASIN
232          KM    Subbasin at NEC of Glendale Ave. & 7th St.
233          BA   0.406
234          LG    1.35    0.25    4.45    0.45      21
235          UC   0.854   0.645
236          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
237          UA     100
             *

238          KK    C60e COMBINE
239          KM    Combine hydrographs 60e and R56eW.
240          HC       2    0.58
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

241          KK    D60e  DIVERT
242          KM    Divert 75 cfs into pipe (south).
243          DT   D60eP
244          DI       0      75    1000   10000
245          DQ       0      75      75      75
             *

246          KK   D60eW  DIVERT
247          KM    Divert surface flow to south.
248          DT   D60eS
249          DI       0     100    1000   10000
250          DQ       0      34     342    3420
             *

251          KK   R60eW   ROUTE
252          KM    Route surface flow west from Subbasin 60e to Subbasin 64e.
253          RS       6    FLOW      -1
254          RC   0.050   0.016   0.050    2640  0.0038
255          RX       0    3.85     154   377.3   392.7     616  766.15     770
256          RY       3       1     0.5       0       0     0.5       1       3
             *

257          KK     64e   BASIN
258          KM    Subbasin at NEC of Glendale Ave. & Central Ave.
259          BA   0.502
260          LG    1.59    0.25    4.70    0.36      15
261          UC   0.928   0.698
262          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
263          UA     100
             *

264          KK   B64cS RETRIEVE
265          KM    Retrieve diverted surface flow from D64cS.
266          DR   D64cS
             *

267          KK   R64cS   ROUTE
268          KM    Route surface flow south from Subbasin 64c to Subbasin 64e.
269          RS       6    FLOW      -1
270          RC   0.050   0.016   0.050    5280  0.0072
271          RX       0     1.8      72   176.4   183.6     288   358.2     360
272          RY       3       1     0.5       0       0     0.5       1       3
             *

273          KK    C64e COMBINE
274          KM    Combine hydrographs 64e, R64cS, and R60eW.
275          HC       3    1.35
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

276          KK   D64eW  DIVERT
277          KM    Divert surface flow to south.
278          DT   D64eS
279          DI       0     100    1000   10000
280          DQ       0      50     500    5000
             *

281          KK   R64eW   ROUTE
282          KM    Route surface flow west from Subbasin 64e to Subbasin 68e.
```

```
283          RS       3    FLOW      -1
284          RC   0.050   0.016   0.050    2640  0.0034
285          RX       0    1.55      62   151.9   158.1     248  308.45     310
286          RY       3       1     0.5       0       0     0.5       1       3
             *

287          KK     68e   BASIN
288          KM    Subbasin at NEC of Glendale Ave. & 7th Ave.
289          BA   0.496
290          LG    1.58    0.25    4.80    0.35      14
291          UC   0.957   0.726
292          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
293          UA     100
             *

294          KK   B68cP RETRIEVE
295          KM    Retrieve diverted pipe flow from D68cP.
296          DR   D68cP
             *

297          KK   P68cS   ROUTE
298          KM    Route pipe flow from Northern/7th Ave. to Glendale/7th Ave.
299          RK    5300  0.0033   0.015            CIRC     3.25
             *

300          KK   B68cS RETRIEVE
301          KM    Retrieve diverted surface flow from D68cS.
302          DR   D68cS
             *

303          KK   R68cS   ROUTE
304          KM    Route surface flow south from Subbasin 68c to Subbasin 68e.
305          RS       6    FLOW      -1
306          RC   0.050   0.016   0.050    5280  0.0066
307          RX       0    1.05      42   102.9   107.1     168  208.95     210
308          RY       3       1     0.5       0       0     0.5       1       3
             *

309          KK   C68cS COMBINE
310          KM    Combine hydrographs R68cS and P68cS.
311          HC       2    0.70
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

312          KK    C68e COMBINE
313          KM    Combine hydrographs 68e, C68cS, and R64eW.
314          HC       3    2.28
             *

315          KK    D68e  DIVERT
316          KM    Divert 63 cfs into pipe (south).
317          DT   D68eP
318          DI       0      63    1000   10000
319          DQ       0      63      63      63
             *

320          KK   D68eW  DIVERT
321          KM    Divert surface flow to south.
322          DT   D68eS
323          DI       0     100    1000   10000
324          DQ       0      54     539    5391
             *

325          KK   R68eW   ROUTE
326          KM    Route surface flow west from Subbasin 68e to Subbasin 72e.
327          RS       3    FLOW      -1
328          RC   0.050   0.016   0.050    2640  0.0019
329          RX       0    1.55      62   151.9   158.1     248  308.45     310
330          RY       3       1     0.5       0       0     0.5       1       3
             *

331          KK     72e   BASIN
332          KM    Subbasin at NEC of Glendale Ave. & 15th Ave.
333          BA   0.499
334          LG    1.62    0.25    4.80    0.35      19
335          UC   0.967   0.732
336          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
337          UA     100
             *

338          KK   B72cP RETRIEVE
339          KM    Retrieve diverted pipe flow from D72cP.
340          DR   D72cP
```

```
                *

341             KK   P72cS   ROUTE
342             KM    Route pipe flow from Northern/15th Ave. to Glendale/15th Ave.
343             RK    5300  0.0052   0.015           CIRC     4.00
                *

344             KK   B72cS RETRIEVE
345             KM    Retrieve diverted surface flow from D72cS.
346             DR   D72cS
                *
1                                        HEC-1 INPUT                                                    PAGE 10

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


347             KK   R72cS   ROUTE
348             KM    Route surface flow south from Subbasin 72c to Subbasin 72e.
349             RS       6    FLOW      -1
350             RC   0.050   0.016   0.050    5280  0.0055
351             RX       0    1.55      62   151.9   158.1     248  308.45     310
352             RY       3       1     0.5       0       0     0.5       1       3
                *

353             KK   C72cS COMBINE
354             KM    Combine hydrographs R72cS and P72cS.
355             HC       2    1.24
                *

356             KK    C72e COMBINE
357             KM    Combine hydrographs 72e, C72cS, and R68eW.
358             HC       3    3.32
                *

359             KK    D72e  DIVERT
360             KM    Divert 195 cfs into pipe (south).
361             DT   D72eP
362             DI       0     100     195   10000
363             DQ       0     100     195     195
                *

364             KK   D72eW  DIVERT
365             KM    Divert 90% surface flow to south.
366             DT   D72eS
367             DI       0     100    1000   10000
368             DQ       0      90     900    9000
                *

369             KK   R72eW   ROUTE
370             KM    Route surface flow west from Subbasin 72e to Subbasin 76e.
371             RS       9    FLOW      -1
372             RC   0.050   0.016   0.050    2640  0.0004
373             RX       0    1.65      66   161.7   168.3     264  328.35     330
374             RY       3       1     0.5       0       0     0.5       1       3
                *

375             KK     76e   BASIN
376             KM    Subbasin at NEC of Glendale Ave. & 19th Ave.
377             BA   0.499
378             LG    1.17    0.25    5.20    0.30      22
379             UC   0.917   0.601
380             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
381             UA     100
                *
1                                        HEC-1 INPUT                                                    PAGE 11

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


382             KK    B76c RETRIEVE
383             KM    Retrieve diverted surface flow from D76c.
384             DR    D76c
                *

385             KK   R76cS   ROUTE
386             KM    Route surface flow south from Subbasin 76c to Subbasin 76e.
387             RS       5    FLOW      -1
388             RC   0.050   0.016   0.050    5280  0.0036
389             RX       0       1      40      98     102     160     199     200
390             RY       3       1     0.5       0       0     0.5       1       3
                *

391             KK    C76e COMBINE
392             KM    Combine hydrographs 76e, R72eW, D76eP1, and R76cS.
393             HC       4    4.42
                *
```

```
394          KK   D76eP  DIVERT
395          KM    Divert 21 (27% of 76) cfs into 19th Ave pipe (south).
396          DT    D76e
397          DI       0      21     100    1000   10000
398          DQ       0       0      79     979    9979
             *

399          KK  BD84cS RETRIEVE
400          KM    Retrieve diverted surface flow from D84cS.
401          DR   D84cS
             *

402          KK   R84cS   ROUTE
403          KM    Route surface flow south from Subbasin 84c to Subbasin 84e.
404          RS       4    FLOW      -1
405          RC   0.050   0.016   0.050    5280  0.0042
406          RX       0    0.75      30    73.5    76.5     120  149.25     150
407          RY       3       1     0.5       0       0     0.5       1       3
             *

408          KK     84e   BASIN
409          KM    Subbasin at NWC of Glendale Ave. & 23rd Ave.
410          BA   0.214
411          LG    1.19    0.15    7.30    0.13      23
412          UC   0.925   0.989
413          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
414          UA     100
             *

415          KK    C84e COMBINE
416          KM    Combine hydrographs 84e and R84cS.
417          HC       2    0.68
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

418          KK   D84eE  DIVERT
419          KM    Divert surface flow to south.
420          DT   D84eS
421          DI       0     100    1000   10000
422          DQ       0      39     395    3950
             *

423          KK   R84eE   ROUTE
424          KM    Route surface flow east from Subbasin 84e to Subbasin 80e.
425          RS       6    FLOW      -1
426          RC   0.050   0.016   0.050    2640  0.0005
427          RX       0    1.85      74   181.3   188.7     296  368.15     370
428          RY       3       1     0.5       0       0     0.5       1       3
             *

429          KK     80e   BASIN
430          KM    Subbasin at NWC of Glendale Ave. & 19th Ave.
431          BA   0.494
432          LG    0.74    0.25    6.00    0.22      23
433          UC   0.863   0.565
434          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
435          UA     100
             *

436          KK  B80eP1 RETRIEVE
437          KM    Retrieve diverted pipe flow from D80eP1.
438          DR  D80eP1
             *

439          KK   BD80c RETRIEVE
440          KM    Retrieve diverted surface flow from D80c.
441          DR    D80c
             *

442          KK   R80cS   ROUTE
443          KM    Route surface flow south from Subbasin 80c to Subbasin 80e.
444          RS       4    FLOW      -1
445          RC   0.050   0.016   0.050    5280  0.0036
446          RX       0       1      40      98     102     160     199     200
447          RY       3       1     0.5       0       0     0.5       1       3
             *

448          KK    C80e COMBINE
449          KM    Combine hydrographs 80e,R84eE, R80cS, and D80eP1.
450          HC       4    1.84
             *
```

```
451          KK   D80eP  DIVERT
452          KM    Divert 55 (73% of 76) cfs into 19th Ave pipe (south).
453          DT    D80e
454          DI       0      55     100    1000   10000
455          DQ       0       0      45     945    9945
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

456          KK   C76eP COMBINE
457          KM    Combine hydrographs D80eP and D76eP into 19th Ave pipe.
458          HC       2    6.26
             *

459          KK   P76eS   ROUTE
460          KM    Route pipe flow from Glendale/19th Ave. to Bethany/19th Ave.
461          RK    5300  0.0037   0.015            CIRC     4.00
             *

462          KK  D76gP1  DIVERT
463          KM    Divert 73% of pipe flow to 80g from 80e.
464          DT  D80gP1
465          DI       0     100    1000   10000
466          DQ       0      73     730    7300
             *

467          KK     76g   BASIN
468          KM    Subbasin at NWC of Bethany Home & 15th Ave.
469          BA   0.501
470          LG    1.08    0.25    5.60    0.26      28
471          UC   0.856   0.555
472          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
473          UA     100
             *

474          KK   BD76e RETRIEVE
475          KM    Retrieve diverted surface flow from D76e.
476          DR    D76e
             *

477          KK   R76eS   ROUTE
478          KM    Route surface flow south from Subbasin 76e to Subbasin 76g.
479          RS       5    FLOW      -1
480          RC   0.050   0.016   0.050    5280  0.0040
481          RX       0    1.05      42   102.9   107.1     168  208.95     210
482          RY       3       1     0.5       0       0     0.5       1       3
             *

483          KK    C76g COMBINE
484          KM    Combine hydrographs 76g, R76eS, and D76gP1.
485          HC       3    4.92
             *

486          KK   D76g1  DIVERT
487          KM    Divert 48 cfs into pipe (15th Ave).
488          DT  D76gP2
489          DI       0      48    1000   10000
490          DQ       0      48      48      48
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

491          KK    D76g  DIVERT
492          KM    Divert 57 (75% of 76) cfs into 19th Ave pipe (south).
493          DT   D76gP
494          DI       0      57     100    1000   10000
495          DQ       0      57      57      57      57
             *

496          KK   D76gE  DIVERT
497          KM    Divert surface flow to south.
498          DT   D76gS
499          DI       0     100    1000   10000
500          DQ       0      70     700    7000
             *

501          KK   R76gE   ROUTE
502          KM    Route surface flow east from Subbasin 76g to Subbasin 72g.
503          RS       3    FLOW      -1
504          RC   0.050   0.016   0.050    1000  0.0008
505          RX       0     1.4      56   137.2   142.8     224   278.6     280
506          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *
507             KK  B76gP2 RETRIEVE
508             KM   Retrieve diverted pipe flow from D76gP2.
509             DR  D76gP2
                *
510             KK   C76gE COMBINE
511             KM   Combine hydrographs D76gP2 and R76gE.
512             HC      2    4.92
                *
513             KK     54g   BASIN
514             KM   Subbasin at NEC of Bethany Home & 16th St.
515             BA   0.247
516             LG    0.95    0.25    4.65    0.39      26
517             UC   0.573   0.431
518             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
519             UA     100
                *
520             KK   D54gW  DIVERT
521             KM   Divert surface flow to south.
522             DT   D54gS
523             DI       0     100    1000   10000
524             DQ       0      40     405    4050
                *
525             KK   R54gW   ROUTE
526             KM   Route surface flow west from Subbasin 54g to Subbasin 56g.
527             RS       4    FLOW      -1
528             RC   0.050   0.016   0.050    2636  0.0030
529             RX       0    1.95      78   191.1   198.9     312  388.05     390
530             RY       3       1     0.5       0       0     0.5       1       3
                *
1                                          HEC-1 INPUT                                          PAGE 15

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

531             KK     56g   BASIN
532             KM   Subbasin at NEC of Bethany Home & 12th St.
533             BA   0.500
534             LG    1.70    0.25    4.35    0.47      23
535             UC   0.815   0.605
536             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
537             UA     100
                *
538             KK   B56eS RETRIEVE
539             KM   Retrieve diverted surface flow from D56eS.
540             DR   D56eS
                *
541             KK   R56eS   ROUTE
542             KM   Route surface flow south from Subbasin 56e to Subbasin 56g.
543             RS       6    FLOW      -1
544             RC   0.050   0.016   0.050    5280  0.0106
545             RX       0     1.8      72   176.4   183.6     288   358.2     360
546             RY       3       1     0.5       0       0     0.5       1       3
                *
547             KK   C56g COMBINE
548             KM   Combine hydrographs 56g, R56eS, and R54gW.
549             HC      3    0.92
                *
550             KK   D56g  DIVERT
551             KM   Divert 130 cfs into pipe (south).
552             DT   D56gP
553             DI       0     100     130   10000
554             DQ       0     100     130     130
                *
555             KK   D56gW  DIVERT
556             KM   Divert surface flow to south.
557             DT   D56gS
558             DI       0     100    1000   10000
559             DQ       0      56     561    5614
                *
560             KK   R56gW   ROUTE
561             KM   Route surface flow west from Subbasin 56g to Subbasin 60g.
562             RS       5    FLOW      -1
563             RC   0.050   0.016   0.050    2636  0.0030
564             RX       0     1.9      76   186.2   193.8     304   378.1     380
```

```
565          RY       3       1     0.5       0       0     0.5       1       3
             *
1                                   HEC-1 INPUT                                                    PAGE 16

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

566          KK     60g   BASIN
567          KM    Subbasin at NEC of Bethany Home & 7th St.
568          BA   0.500
569          LG    1.51    0.25    4.65    0.39      25
570          UC   0.844   0.629
571          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
572          UA     100
             *

573          KK   B60eP RETRIEVE
574          KM    Retrieve diverted pipe flow from D60eP.
575          DR   D60eP
             *

576          KK   P60eS   ROUTE
577          KM    Route pipe flow from Glendale/7th St. to Bethany/7th St.
578          RK    5300  0.0074   0.015           CIRC     3.50
             *

579          KK   B60eS RETRIEVE
580          KM    Retrieve diverted surface flow from D60eS.
581          DR   D60eS
             *

582          KK   R60eS   ROUTE
583          KM    Route surface flow south from Subbasin 6oe to Subbasin 60g.
584          RS       6    FLOW      -1
585          RC   0.050   0.016   0.050    5280  0.0091
586          RX       0    1.55      62   151.9   158.1     248  308.45     310
587          RY       3       1     0.5       0       0     0.5       1       3
             *

588          KK   C60eS COMBINE
589          KM    Combine hydrographs R60eS and P60eS.
590          HC       2    0.58
             *

591          KK    C60g COMBINE
592          KM    Combine hydrographs 60g, R56gW, and C60eS.
593          HC       3    1.83
             *

594          KK    D60g  DIVERT
595          KM    Divert 124 cfs into pipe (south).
596          DT   D60gP
597          DI       0     100     124   10000
598          DQ       0     100     124     124
             *
1                                   HEC-1 INPUT                                                    PAGE 17

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

599          KK   D60gW  DIVERT
600          KM    Divert surface flow to south.
601          DT   D60gS
602          DI       0     100    1000   10000
603          DQ       0      47     470    4701
             *

604          KK   R60gW   ROUTE
605          KM    Route surface flow west from Subbasin 60g to Subbasin 64g.
606          RS       3    FLOW      -1
607          RC   0.050   0.016   0.050    2640  0.0023
608          RX       0    2.05      82   200.9   209.1     328  407.95     410
609          RY       3       1     0.5       0       0     0.5       1       3
             *

610          KK     64g   BASIN
611          KM    Subbasin at NEC of Bethany Home & Central Ave.
612          BA   0.502
613          LG    1.76    0.25    4.80    0.36      20
614          UC   0.924   0.694
615          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
616          UA     100
             *

617          KK   B64eS RETRIEVE
618          KM    Retrieve diverted surface flow from D64eS.
```

```
619          DR   D64eS
             *

620          KK   R64eS   ROUTE
621          KM    Route surface flow south from Subbasin 64e to Subbasin 64g.
622          RS       6    FLOW      -1
623          RC   0.050   0.016   0.050    5280  0.0076
624          RX       0    1.75      70   171.5   178.5     280  348.25     350
625          RY       3       1     0.5       0       0     0.5       1       3
             *

626          KK    C64g COMBINE
627          KM    Combine hydrographs 64g, R60gW, and R64eS.
628          HC       3    3.10
             *

629          KK    D64g  DIVERT
630          KM    Divert 153 cfs into pipe.
631          DT   D64gP
632          DI       0     100     153   10000
633          DQ       0     100     153     153
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

634          KK   D64gW  DIVERT
635          KM    Divert surface flow to south.
636          DT   D64gS
637          DI       0     100    1000   10000
638          DQ       0      48     480    4800
             *

639          KK   R64gW   ROUTE
640          KM    Route surface flow west from Subbasin 64g to Subbasin 68g.
641          RS       3    FLOW      -1
642          RC   0.050   0.016   0.050    2640  0.0019
643          RX       0     1.3      52   127.4   132.6     208   258.7     260
644          RY       3       1     0.5       0       0     0.5       1       3
             *

645          KK     68g   BASIN
646          KM    Subbasin at NEC of Bethany Home & 7th Ave.
647          BA   0.502
648          LG    1.98    0.25    4.80    0.36      17
649          UC   1.085   0.829
650          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
651          UA     100
             *

652          KK   B68eP RETRIEVE
653          KM    Retrieve diverted pipe flow from D68eP.
654          DR   D68eP
             *

655          KK   P68eS   ROUTE
656          KM    Route pipe flow from Glendale/7th Ave. to Bethany/7th Ave.
657          RK    5300  0.0052   0.015            CIRC     3.50
             *

658          KK   B68eS RETRIEVE
659          KM    Retrieve diverted surface flow from D68eS.
660          DR   D68eS
             *

661          KK   R68eS   ROUTE
662          KM    Route surface flow south from Subbasin 68e to Subbasin 68g.
663          RS       3    FLOW      -1
664          RC   0.050   0.016   0.050    5280  0.0063
665          RX       0     1.3      52   127.4   132.6     208   258.7     260
666          RY       3       1     0.5       0       0     0.5       1       3
             *

667          KK   C68eS COMBINE
668          KM    Combine hydrographs R68eS and P68eS.
669          HC       2    2.28
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

670          KK    C68g COMBINE
671          KM    Combine hydrographs 68g, C68eS, and R64gW.
672          HC       3    4.53
```

```
*

KK    D68g  DIVERT
KM    Divert 82 cfs into pipe.
DT    D68gP
DI       0      82    1000   10000
DQ       0      82      82      82
*

KK   D68gW  DIVERT
KM    Divert surface flow to south.
DT   D68gS
DI       0     100    1000   10000
DQ       0      56     560    5600
*

KK   R68gW   ROUTE
KM    Route surface flow west from Subbasin 68g to Subbasin 72g.
RS       4    FLOW      -1
RC   0.050   0.016   0.050    2640  0.0008
RX       0    1.05      42   102.9   107.1     168  208.95     210
RY       3       1     0.5       0       0     0.5       1       3
*

KK    72g    BASIN
KM    Subbasin at NEC of Bethany Home & 15th Ave.
BA   0.500
LG    1.30    0.25    5.60    0.27      20
UC   1.006   0.765
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK   B72eP RETRIEVE
KM    Retrieve diverted pipe flow from D72eP.
DR   D72eP
*

KK   P72eS   ROUTE
KM    Route pipe flow from Glendale/15th Ave. to Bethany/15th Ave.
RK    5300  0.0058   0.015           CIRC     5.25
*

KK   B72eS RETRIEVE
KM    Retrieve diverted surface flow from D72eS.
DR   D72eS
*
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK   R72eS   ROUTE
KM    Route surface flow south from Subbasin 72e to Subbasin 72g.
RS       5    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0047
RX       0    1.75      70   171.5   178.5     280  348.25     350
RY       3       1     0.5       0       0     0.5       1       3
*

KK   C72eS COMBINE
KM    Combine hydrographs R72eS and P72eS.
HC       2    3.32
*

KK    C72g COMBINE
KM    Combine hydrographs 72g, C72eS, and R68gW.
HC       3    6.07
*

KK   CC72g COMBINE
KM    Combine hydrographs C72g and C76gE.
HC       2    7.67
*

KK    D72g  DIVERT
KM    Divert 178 cfs into pipe.
DT   D72gP
DI       0     100     178   10000
DQ       0     100     178     178
*

KK   R72gS   ROUTE
KM    Route surface flow south from Subbasin 72g to Subbasin 72i.
RS       3    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0040
```

```
729          RX       0     1.3      52   127.4   132.6     208   258.7     260
730          RY       3       1     0.5       0       0     0.5       1       3
             *

731          KK  BD72gP RETRIEVE
732          KM    Retrieve diverted pipe flow from D72gP.
733          DR   D72gP
             *

734          KK   P72gS   ROUTE
735          KM    Route pipe flow from Bethany/15th Ave. to Camelback/15th Ave.
736          RK    5300  0.0024   0.015,           CIRC     6.00
             *

737          KK   C72gS COMBINE
738          KM    Combine hydrographs R72gS and P72gS.
739          HC       2    7.67
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

740          KK     84g   BASIN
741          KM   Subbasin at NWC of Bethany Home & 23rd Ave.
742          BA   0.214
743          LG    0.61    0.25    4.80    0.36      27
744          UC   0.867   0.915
745          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
746          UA     100
             *

747          KK   B84eS RETRIEVE
748          KM    Retrieve diverted surface flow from D84eS.
749          DR   D84eS
             *

750          KK   R84eS   ROUTE
751          KM    Route surface flow south from Subbasin 84e to Subbasin 84g.
752          RS       6    FLOW      -1
753          RC   0.050   0.016   0.050    5280  0.0042
754          RX       0       1      40      98     102     160     199     200
755          RY       3       1     0.5       0       0     0.5       1       3
             *

756          KK    C84g COMBINE
757          KM    Combine hydrographs 84g and R84eS.
758          HC       2    0.90
             *

759          KK   D84gE  DIVERT
760          KM    Divert surface flow to south.
761          DT   D84gS
762          DI       0     100    1000   10000
763          DQ       0      47     474    4742
             *

764          KK   R84gE   ROUTE
765          KM    Route surface flow east from Subbasin 84g to Subbasin 80g.
766          RS       6    FLOW      -1
767          RC   0.050   0.016   0.050    2640  0.0005
768          RX       0     1.4      56   137.2   142.8     224   278.6     280
769          RY       3       1     0.5       0       0     0.5       1       3
             *

770          KK     80g   BASIN
771          KM    Subbasin at NWC of Bethany Home & 19th Ave.
772          BA   0.496
773          LG    0.89    0.25    4.80    0.39      23
774          UC   0.977   0.647
775          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
776          UA     100
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

777          KK   BD80e RETRIEVE
778          KM    Retrieve diverted surface flow from D80e.
779          DR    D80e
             *

780          KK   R80eS   ROUTE
781          KM    Route surface flow south from Subbasin 80e to Subbasin 80g.
782          RS       3    FLOW      -1
```

```
783          RC   0.050   0.016   0.050    5280  0.0040
784          RX       0    1.05      42   102.9   107.1     168  208.95     210
785          RY       3       1     0.5       0       0     0.5       1       3
             *

786          KK  B80gP1 RETRIEVE
787          KM    Retrieve diverted pipe flow from D80gP1.
788          DR  D80gP1
             *

789          KK    C80g COMBINE
790          KM    Combine hydrographs 80g, R84gE, R80eS, and D80gP1.
791          HC       4    2.55
             *

792          KK   D80gP  DIVERT
793          KM    Divert 19 (25% of 76) cfs into pipe (south).
794          DT    D80g
795          DI       0      19     100    1000   10000
796          DQ       0       0      81     981    9981
             *

797          KK   B76gP RETRIEVE
798          KM    Retrieve diverted pipe flow from D76gP.
799          DR   D76gP
             *

800          KK   C76gP COMBINE
801          KM    Combine hydrographs D76gP and D80gP.
802          HC       2    7.47
             *

803          KK   P76gS   ROUTE
804          KM    Route pipe flow from Bethany/19th Ave. to Camelback/19th Ave.
805          RK    5300  0.0037   0.015           CIRC     4.00
             *

806          KK  D76iP1  DIVERT
807          KM    Divert 25% of pipe flow from 80g to 80i.
808          DT  D80iP1
809          DI       0     100    1000   10000
810          DQ       0      25     250    2500
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

811          KK     76i   BASIN
812          KM    Subbasin at NWC of Camelback Rd. & 15th Ave.
813          BA   0.499
814          LG    0.72    0.25    5.40    0.29      44
815          UC   0.882   0.575
816          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
817          UA     100
             *

818          KK  BD76gS RETRIEVE
819          KM    Retrieve diverted surface flow from D76gS.
820          DR   D76gS
             *

821          KK   R76gS   ROUTE
822          KM    Route surface flow south from Subbasin 76g to Subbasin 76i.
823          RS       3    FLOW      -1
824          RC   0.050   0.016   0.050    5280  0.0034
825          RX       0    0.75      30    73.5    76.5     120  149.25     150
826          RY       3       1     0.5       0       0     0.5       1       3
             *

827          KK    C76i COMBINE
828          KM    Combine hydrographs D76iP1, R76gS, and 76i.
829          HC       3    5.42
             *

830          KK  D76iP2  DIVERT
831          KM   Divert 48 cfs flow into 15th Ave pipe.
832          DT   D76i1
833          DI       0      48     100    1000   10000
834          DQ       0       0      52     952    9952
             *

835          KK     72i   BASIN
836          KM    Subbasin at NEC of Camelback Rd. & 7th Ave.
837          BA   0.504
838          LG    0.92    0.25    4.80    0.36      22
```

```
839          UC   0.991   0.749
840          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
841          UA     100
             *

842          KK    C72i COMBINE
843          KM    Combine hydrographs 72i, C72gS, and D76iP2.
844          HC       3    8.68
             *

845          KK   D72iP  DIVERT
846          KM   Divert flow into pipe.
847          KM   Total Pipe flow is 258 cfs
848          DT    D72i
849          DI       0     258    1000   10000
850          DQ       0       0     742    9742
             *
1                                          HEC-1 INPUT                                          PAGE 24

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

851          KK  D72iP2  DIVERT
852          KM   Divert flow into pipe.
853          KM   Flow of pipe 2 to west is 32, flow of pipe 1 to south is 226 cfs
854          DT  D72iP1
855          DI       0     258     300
856          DQ       0     226     226
             *

857          KK   P72iW   ROUTE
858          KM    Route pipe flow from Camelback/15th Ave. to Camelback/19th Ave.
859          RK    2600  0.0030   0.015            CIRC      4.0
             *

860          KK  BD76i1 RETRIEVE
861          KM    Retrieve diverted flow from D76i1.
862          DR   D76i1
             *

863          KK   CC76i COMBINE
864          KM    Combine hydrographs D76i1,and P72iW.
865          HC       2    5.92
             *

866          KK   D76iP  DIVERT
867          KM   Divert 78 (74% of 106) cfs flow into pipe.
868          DT    D76i
869          DI       0      78     100    1000   10000
870          DQ       0       0      22     922    9922
             *
             *

871          KK  BD84gS RETRIEVE
872          KM    Retrieve diverted surface flow from D84gS.
873          DR   D84gS
             *

874          KK   R84gS   ROUTE
875          KM    Route surface flow south from Subbasin 84g to Subbasin 84i.
876          RS       6    FLOW      -1
877          RC   0.050   0.016   0.050    5280  0.0038
878          RX       0    0.75      30    73.5    76.5     120  149.25     150
879          RY       3       1     0.5       0       0     0.5       1       3
             *

880          KK     84i   BASIN
881          KM    Subbasin at NWC of Camelback Rd. & 23rd Ave.
882          BA   0.211
883          LG    0.99    0.25    5.10    0.31      27
884          UC   0.956   1.041
885          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
886          UA     100
             *
1                                          HEC-1 INPUT                                          PAGE 25

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

887          KK    C84i COMBINE
888          KM    Combine hydrographs 84i and R84gS.
889          HC       2    1.11
             *

890          KK    S84i STORAGE
891          KM    Online Regional Retention Basin - Phase A Basin of 24th Ave & Camelback Rd.
```

```
892          RS       1    STOR       0
893          SV       0       8      17      22      27      32      50
894          SE       0       2       4       5       6       7       9
895          SS       7     100     2.7     1.5
             *

896          KK   D84iE  DIVERT
897          KM    Divert surface flow to south.
898          DT   D84iS
899          DI       0     100    1000   10000
900          DQ       0      39     387    3873
             *

901          KK   R84iE  ROUTE
902          KM    Route surface flow east from Subbasin 84i to Subbasin 80i.
903          RS       9    FLOW      -1
904          RC   0.050   0.016   0.050    2640  0.0015
905          RX       0     1.4      56   137.2   142.8     224   278.6     280
906          RY       3       1     0.5       0       0     0.5       1       3
             *

907          KK     80i   BASIN
908          KM    Subbasin at NWC of Camelback Rd. & 19th Ave.
909          BA   0.494
910          LG    0.47    0.25    5.70    0.24      23
911          UC   0.864   0.566
912          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
913          UA     100
             *

914          KK   BD80g RETRIEVE
915          KM    Retrieve diverted flow from D80g.
916          DR    D80g
             *

917          KK    S80g STORAGE
918          KM    Online Regional Detention Basin, 0.9 ac-ft.
919          RS       1    STOR       0
920          SV       0     0.2     0.5     0.9     1.4     3.0
921          SE       0       1       2       3       4       5
922          SL       0   0.785    0.62     0.5
923          SS       3     300     2.7     1.5
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

924          KK   R80gS   ROUTE
925          KM    Route surface flow south from Subbasin 80g to Subbasin 80i.
926          RS       3    FLOW      -1
927          RC   0.050   0.016   0.050    5280  0.0034
928          RX       0    0.75      30    73.5    76.5     120  149.25     150
929          RY       3       1     0.5       0       0     0.5       1       3
             *

930          KK  B80iP1 RETRIEVE
931          KM    Retrieve diverted pipe flow from D80iP1.
932          DR  D80iP1
             *

933          KK    C80i COMBINE
934          KM    Combine hydrographs 80i,R84E,R80gS, and D80iP1.
935          HC       4    3.25
             *

936          KK   D80iP  DIVERT
937          KM    Divert 28 (26% of 106) cfs into pipe.
938          DT    D80i
939          DI       0      28     100    1000   10000
940          DQ       0       0      72     972    9972
             *

941          KK   C76iP COMBINE
942          KM    Combine hydrographs D80iP and D76iP.
943          HC       2    9.18
             *

944          KK   P76iS   ROUTE
945          KM    Route pipe flow from Camelback/19th Ave. to Grand Canal/19th Ave.
946          RK    3500  0.0039   0.015           CIRC     4.50
             *

947          KK  D76kP1  DIVERT
948          KM    Divert 26% of pipe flow from 80i to 80k.
949          DT  D80kP1
```

```
 950          DI       0     100    1000   10000
 951          DQ       0      26     260    2600
              *

 952          KK     76k   BASIN
 953          KM    Subbasin at NEC of Grand Canal & 19th Ave.
 954          BA   0.317
 955          LG    0.55    0.15    7.00    0.14      28
 956          UC   0.720   0.447
 957          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 958          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE 27

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 959          KK   BD76i RETRIEVE
 960          KM    Retrieve diverted surface flow from D76i.
 961          DR    D76i
              *

 962          KK   D76iS  DIVERT
 963          KM    Divert surface flow to east.
 964          DT   D76iE
 965          DI       0     100    1000   10000
 966          DQ       0      32     320    3200
              *

 967          KK   R76iS   ROUTE
 968          KM    Route surface flow south from Subbasin 76i to Subbasin 76k.
 969          RS       3    FLOW      -1
 970          RC   0.050   0.016   0.050    3500  0.0038
 971          RX       0    0.75      30    73.5    76.5     120  149.25     150
 972          RY       3       1     0.5       0       0     0.5       1       3
              *

 973          KK    C76k COMBINE
 974          KM    Combine hydrographs D76kP1, R76iS, and 76k.
 975          HC       3    5.74
              *

 976          KK  D76kP2  DIVERT
 977          KM    Divert flow into pipe.
 978          KM    Pipe flow to east is 32 cfs
 979          DT   D76k1
 980          DI       0      32     100    1000   10000
 981          DQ       0       0      68     968    9968
              *

 982          KK     54i   BASIN
 983          KM    Subbasin at NEC of Camelback Rd. & 16th St.
 984          BA   0.192
 985          LG    1.22    0.25    4.80    0.39      33
 986          UC   0.724   0.751
 987          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 988          UA     100
              *

 989          KK  BD54gS RETRIEVE
 990          KM    Retrieve diverted surface flow from D54gS.
 991          DR   D54gS
              *

 992          KK   R54gS   ROUTE
 993          KM    Route surface flow south from Subbasin 54g to Subbasin 54i.
 994          RS       6    FLOW      -1
 995          RC   0.050   0.016   0.050    5280  0.0072
 996          RX       0    0.75      30    73.5    76.5     120  149.25     150
 997          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                          PAGE 28

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 998          KK    C54i COMBINE
 999          KM    Combine hydrographs 54i and R54gS.
1000          HC       2    0.44
              *

1001          KK    D54i  DIVERT
1002          KM    Divert 68 cfs into pipe.
1003          DT   D54iP
1004          DI       0      68    1000   10000
1005          DQ       0      68      68      68
```

```
                *

1006            KK   D54iW  DIVERT
1007            KM    Divert surface flow to south.
1008            DT   D54iS
1009            DI       0     100    1000   10000
1010            DQ       0      37     372    3722
                *

1011            KK   R54iW   ROUTE
1012            KM    Route surface flow west from Subbasin 54i to Subbasin 56i.
1013            RS       6    FLOW      -1
1014            RC   0.050   0.016   0.050    2636  0.0015
1015            RX       0     1.6      64   156.8   163.2     256   318.4     320
1016            RY       3       1     0.5       0       0     0.5       1       3
                *

1017            KK     56i   BASIN
1018            KM    Subbasin at NEC of Camelback Rd. & 12th St.
1019            BA   0.500
1020            LG    1.20    0.25    4.80    0.37      28
1021            UC   0.795   0.589
1022            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1023            UA     100
                *

1024            KK  BD56gP RETRIEVE
1025            KM    Retrieve diverted pipe flow from D56gP.
1026            DR   D56gP
                *

1027            KK   P56gS   ROUTE
1028            KM    Route pipe flow from Bethany/12th St. to Camelback/12th St.
1029            RK    5300  0.0058   0.015            CIRC     4.50
                *

1030            KK  BD56gS RETRIEVE
1031            KM    Retrieve diverted surface flow from D56gS.
1032            DR   D56gS
                *
```



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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1033            KK   R56gS   ROUTE
1034            KM    Route surface flow south from Subbasin 56g to Subbasin 56i.
1035            RS       6    FLOW      -1
1036            RC   0.050   0.016   0.050    5280  0.0072
1037            RX       0     1.3      52   127.4   132.6     208   258.7     260
1038            RY       3       1     0.5       0       0     0.5       1       3
                *

1039            KK   C56gS COMBINE
1040            KM    Combine hydrographs R56gS and P56gS.
1041            HC       2    0.92
                *

1042            KK    C56i COMBINE
1043            KM    Combine hydrographs 56i, C56gS, and R54iW.
1044            HC       3    1.62
                *

1045            KK    D56i  DIVERT
1046            KM    Divert 204 cfs into pipe.
1047            DT   D56iP
1048            DI       0     100     204   10000
1049            DQ       0     100     204     204
                *

1050            KK   D56iW  DIVERT
1051            KM    Divert surface flow to south.
1052            DT   D56iS
1053            DI       0     100    1000   10000
1054            DQ       0      49     488    4881
                *

1055            KK   R56iW   ROUTE
1056            KM    Route surface flow west from Subbasin 56i to Subbasin 60i.
1057            RS       9    FLOW      -1
1058            RC   0.050   0.016   0.050    2636  0.0015
1059            RX       0     2.4      96   235.2   244.8     384   477.6     480
1060            RY       3       1     0.5       0       0     0.5       1       3
                *

1061            KK     60i   BASIN
```

```
1062          KM    Subbasin at NEC of Camelback Rd. & 7th St.
1063          BA   0.500
1064          LG    0.78    0.25    4.80    0.37      33
1065          UC   0.805   0.597
1066          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1067          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1068          KK  BD60gP RETRIEVE
1069          KM    Retrieve diverted pipe flow from D60gP.
1070          DR   D60gP
              *

1071          KK   P60gS   ROUTE
1072          KM    Route pipe flow from Bethany/7th St. to Camelback/7th St.
1073          RK    5300  0.0053   0.015           CIRC     4.50
              *

1074          KK  BD60gS RETRIEVE
1075          KM    Retrieve diverted surface flow from D60gS.
1076          DR   D60gS
              *

1077          KK   R60gS   ROUTE
1078          KM    Route surface flow south from Subbasin 60g to Subbasin 60i.
1079          RS       5    FLOW      -1
1080          RC   0.050   0.016   0.050    5280  0.0064
1081          RX       0    1.05      42   102.9   107.1     168  208.95     210
1082          RY       3       1     0.5       0       0     0.5       1       3
              *

1083          KK   C60gS COMBINE
1084          KM    Combine hydrographs R60gS and P60gS.
1085          HC       2    1.83
              *

1086          KK    C60i COMBINE
1087          KM    Combine hydrographs 60i, C60gS, and R56iW.
1088          HC       3    3.02
              *

1089          KK    D60i  DIVERT
1090          KM   Divert 211 cfs into pipe.
1091          KM   Total flow for two pipes is 211 cfs
1092          DT   D60iP
1093          DI       0     100     211   10000
1094          DQ       0     100     211     211
              *

1095          KK   D60iW  DIVERT
1096          KM    Divert surface flow to south.
1097          DT   D60iS
1098          DI       0     100    1000   10000
1099          DQ       0      59     592    5916
              *

1100          KK   R60iW   ROUTE
1101          KM    Route surface flow west from Subbasin 60i to Subbasin 64i.
1102          RS       4    FLOW      -1
1103          RC   0.050   0.016   0.050    2640  0.0015
1104          RX       0    1.85      74   181.3   188.7     296  368.15     370
1105          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                          PAGE 31

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1106          KK  BD64gP RETRIEVE
1107          KM    Retrieve diverted pipe flow from D64gP.
1108          DR   D64gP
              *

1109          KK   P64gS   ROUTE
1110          KM    Route pipe flow from Bethany/Central Ave. to Camelback/Central Ave.
1111          RK    5300  0.0046   0.015           CIRC     5.00
              *

1112          KK  BD64gS RETRIEVE
1113          KM    Retrieve diverted surface flow from D64gS.
1114          DR   D64gS
              *
```

```
1115          KK   R64gS   ROUTE
1116          KM    Route surface flow south from Subbasin 64g to Subbasin 64i.
1117          RS       5    FLOW      -1
1118          RC   0.050   0.016   0.050    5280  0.0061
1119          RX       0    0.75      30    73.5    76.5     120  149.25     150
1120          RY       3       1     0.5       0       0     0.5       1       3
              *

1121          KK   C64gS COMBINE
1122          KM    Combine hydrographs R64gS and P64gS.
1123          HC       2    3.10
              *

1124          KK     64i   BASIN
1125          KM    Subbasin at NEC of Camelback Rd. & Central Ave.
1126          BA   0.499
1127          LG    1.40    0.25    4.80    0.37      32
1128          UC   0.888   0.666
1129          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1130          UA     100
              *

1131          KK    C64i COMBINE
1132          KM    Combine hydrographs 64i, C64gS, and R60iW.
1133          HC       3    4.79
              *

1134          KK    D64i  DIVERT
1135          KM    Divert 214 cfs into pipe.
1136          DT   D64iP
1137          DI       0     100     214   10000
1138          DQ       0     100     214     214
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1139          KK   D64iW  DIVERT
1140          KM    Divert surface flow to south.
1141          DT   D64iS
1142          DI       0     100    1000   10000
1143          DQ       0      61     610    6098
              *

1144          KK   R64iW   ROUTE
1145          KM    Route surface flow west from Subbasin 64i to Subbasin 68i.
1146          RS       6    FLOW      -1
1147          RC   0.050   0.016   0.050    2640  0.0010
1148          RX       0     1.6      64   156.8   163.2     256   318.4     320
1149          RY       3       1     0.5       0       0     0.5       1       3
              *

1150          KK     68i   BASIN
1151          KM    Subbasin at NEC of Camelback Rd. & 7th Ave.
1152          BA   0.500
1153          LG    1.78    0.25    4.80    0.36      23
1154          UC   1.081   0.829
1155          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1156          UA     100
              *

1157          KK  BD68gP RETRIEVE
1158          KM    Retrieve diverted pipe flow from D68gP.
1159          DR   D68gP
              *

1160          KK   P68gS   ROUTE
1161          KM    Route pipe flow from Bethany/7th Ave. to Camelback/7th Ave.
1162          RK    5300  0.0043   0.015            CIRC     4.00
              *

1163          KK  BD68gS RETRIEVE
1164          KM    Retrieve diverted surface flow from D68gS.
1165          DR   D68gS
              *

1166          KK   R68gS   ROUTE
1167          KM    Route surface flow south from Subbasin 68g to Subbasin 68i.
1168          RS       4    FLOW      -1
1169          RC   0.050   0.016   0.050    5280  0.0045
1170          RX       0     1.3      52   127.4   132.6     208   258.7     260
1171          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
1172          KK   C68gS COMBINE
1173          KM    Combine hydrographs R68gS and P68gS.
1174          HC       2     4.53
              *
1                                          HEC-1 INPUT                                                    PAGE 33

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1175          KK    C68i COMBINE
1176          KM    Combine hydrographs 68i, C68gS, and R64iW.
1177          HC       3     6.72
              *

1178          KK   BD72i RETRIEVE
1179          KM    Retrieve diverted surface flow from D72i.
1180          DR    D72i
              *

1181          KK   B76iE RETRIEVE
1182          KM    Retrieve diverted surface flow from D76iE.
1183          DR   D76iE
              *

1184          KK   R76iE  ROUTE
1185          KM    Route surface flow east from Subbasin 76i to Subbasin 72i.
1186          RS       4    FLOW      -1
1187          RC   0.050   0.016   0.050    2640  0.0008
1188          RX       0     1.4      56   137.2   142.8     224   278.6     280
1189          RY       3       1     0.5       0       0     0.5       1       3
              *

1190          KK   CC72i COMBINE
1191          KM    Combine hydrographs R76iE and D72i.
1192          HC       2     8.68
              *

1193          KK   D72iE  DIVERT
1194          KM    Divert surface flow to south.
1195          DT   D72iS
1196          DI       0     100    1000   10000
1197          DQ       0      70     700    7000
              *

1198          KK   R72iE   ROUTE
1199          KM    Route surface flow east from Subbasin 72i to Subbasin 68i.
1200          RS       5    FLOW      -1
1201          RC   0.050   0.016   0.050    2640  0.0008
1202          RX       0    1.35      54   132.3   137.7     216  268.65     270
1203          RY       3       1     0.5       0       0     0.5       1       3
              *

1204          KK   CC68i COMBINE
1205          KM    Combine hydrographs C68i and R72iE.
1206          HC       2    10.87
              *

1207          KK    D68i  DIVERT
1208          KM    Divert 99 cfs into pipe.
1209          DT   D68iP
1210          DI       0      99    1000   10000
1211          DQ       0      99      99      99
              *
1                                          HEC-1 INPUT                                                    PAGE 34

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1212          KK   R68iS   ROUTE
1213          KM    Route surface flow south from Subbasin 68i to Subbasin 68k.
1214          RS       3    FLOW      -1
1215          RC   0.050   0.016   0.050    2000  0.0030
1216          RX       0     0.8      32    78.4    81.6     128   159.2     160
1217          RY       3       1     0.5       0       0     0.5       1       3
              *

1218          KK  BD68iP RETRIEVE
1219          KM    Retrieve diverted pipe flow from D68iP.
1220          DR   D68iP
              *

1221          KK   P68iS   ROUTE
1222          KM    Route pipe flow from Camelback/7th Ave. to Grand Canal/7th Ave.
1223          RK    2400  0.0034   0.015            CIRC    4.50
              *
```

```
1224          KK   C68iS COMBINE
1225          KM    Combine hydrographs R68iS and P68iS.
1226          HC       2   10.87
              *

1227          KK     36i   BASIN
1228          KM    Subbasin at NEC of Camelback Rd. & 32nd St.
1229          BA   0.339
1230          LG    0.95    0.24    3.95    0.57      19
1231          UC   0.809   0.660
1232          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1233          UA     100
              *

1234          KK    D36i  DIVERT
1235          KM    Divert 41 cfs into pipe.
1236          DT   D36iP
1237          DI       0      41    1000   10000
1238          DQ       0      41      41      41
              *

1239          KK   D36iW  DIVERT
1240          KM    Divert 84% surface flow to south.
1241          DT   D36iS
1242          DI       0     100    1000   10000
1243          DQ       0      84     836    8357
              *

1244          KK   R36iW   ROUTE
1245          KM    Route surface flow west from Subbasin 36i to Subbasin 40i.
1246          RS       5    FLOW      -1
1247          RC   0.050   0.016   0.050    2610  0.0077
1248          RX       0    1.05      42   102.9   107.1     168  208.95     210
1249          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1250          KK     40i   BASIN
1251          KM    Subbasin at NEC of Camelback Rd. & 28th St.
1252          BA   0.224
1253          LG    2.53    0.25    4.10    0.58      26
1254          UC   0.735   0.651
1255          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1256          UA     100
              *

1257          KK    S40i STORAGE
1258          KM    Online local Retention Basin, 11 ac-ft.
1259          RS       1    STOR       0
1260          SV       0     2.4     6.1    10.5    15.3
1261          SE       0       1       2       3       4
1262          SS       3      50     2.7     1.5
              *

1263          KK    C40i COMBINE
1264          KM    Combine hydrographs 40i and R36iW.
1265          HC       2    0.56
              *

1266          KK   D40iW  DIVERT
1267          KM    Divert surface flow to south.
1268          DT   D40iS
1269          DI       0     100    1000   10000
1270          DQ       0      76     759    7592
              *

1271          KK   R40iW   ROUTE
1272          KM    Route surface flow west from Subbasin 40i to Subbasin 44i.
1273          RS       5    FLOW      -1
1274          RC   0.050   0.016   0.050    2715  0.0059
1275          RX       0     0.5      20      49      51      80    99.5     100
1276          RY       3       1     0.5       0       0     0.5       1       3
              *

1277          KK     44i   BASIN
1278          KM    Subbasin at NEC of Camelback Rd. & 24th St.
1279          BA   0.349
1280          LG    1.92    0.25    4.35    0.50      23
1281          UC   0.857   0.785
1282          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1283          UA     100
              *
```

```
1284          KK     42i   BASIN
1285          KM    Subbasin north of Biltmore & 28th St.
1286          BA   0.269
1287          LG    1.07    0.25    4.00    0.64       5
1288          UC   0.623   0.463
1289          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1290          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE 36

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1291          KK   R42iW   ROUTE
1292          KM    Route surface flow west from Subbasin 42i to Subbasin 44i.
1293          RS       3    FLOW      -1
1294          RC   0.050   0.016   0.050    2715  0.0059
1295          RX       0     0.8      32    78.4    81.6     128   159.2     160
1296          RY       3       1     0.5       0       0     0.5       1       3
              *

1297          KK    C44i COMBINE
1298          KM    Combine hydrographs 44i, R42iW, and R40iW.
1299          HC       3    1.18
              *

1300          KK    D44i  DIVERT
1301          KM    Divert 48 cfs into pipe.
1302          DT   D44iP
1303          DI       0      48    1000   10000
1304          DQ       0      48      48      48
              *

1305          KK   D44iW  DIVERT
1306          KM    Divert surface flow to south.
1307          DT   D44iS
1308          DI       0     100    1000   10000
1309          DQ       0      50     496    4957
              *

1310          KK   R44iW   ROUTE
1311          KM    Route surface flow west from Subbasin 44i to Subbasin 48i.
1312          RS       3    FLOW      -1
1313          RC   0.050   0.016   0.050    2640  0.0053
1314          RX       0     0.8      32    78.4    81.6     128   159.2     160
1315          RY       3       1     0.5       0       0     0.5       1       3
              *

1316          KK     48i   BASIN
1317          KM    Subbasin at NEC of Camelback Rd. & 20th St.
1318          BA   0.535
1319          LG    1.55    0.25    4.35    0.45      11
1320          UC   0.852   0.667
1321          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1322          UA     100
              *

1323          KK    C48i COMBINE
1324          KM    Combine hydrographs 48i and R44iW.
1325          HC       2    1.72
              *
1                                          HEC-1 INPUT                                          PAGE 37

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1326          KK    D48i  DIVERT
1327          KM    Divert 47 cfs into pipe.
1328          DT   D48iP
1329          DI       0      47    1000   10000
1330          DQ       0      47      47      47
              *

1331          KK   D48iW  DIVERT
1332          KM    Divert surface flow to south.
1333          DT   D48iS
1334          DI       0     100    1000   10000
1335          DQ       0      49     487    4872
              *

1336          KK   R48iW   ROUTE
1337          KM    Route surface flow west from Subbasin 48i to Subbasin 52i.
1338          RS       3    FLOW      -1
1339          RC   0.050   0.016   0.050    1660  0.0036
1340          RX       0    1.35      54   132.3   137.7     216  268.65     270
1341          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *

1342            KK  BD48iP RETRIEVE
1343            KM   Retrieve diverted pipe flow from D48iP.
1344            DR  D48iP
                *

1345            KK  P48iW   ROUTE
1346            KM   Route pipe flow from Camelback/20th St. to Camelback/SR51.
1347            RK   1550  0.0043   0.015            CIRC     3.3
                *

1348            KK  C48iW COMBINE
1349            KM   Combine hydrographs P48iW and R48iW.
1350            HC      2    1.72
                *

1351            KK    52g   BASIN
1352            KM   Subbasin at NEC of Bethany Home & SR51.
1353            BA  0.265
1354            LG   1.71    0.25    4.15    0.51      13
1355            UC  0.600   0.366
1356            UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1357            UA    100
                *

1358            KK  R52gS   ROUTE
1359            KM   Route surface flow south from Subbasin 52g to Subbasin 52i.
1360            RS      6    FLOW      -1
1361            RC  0.050   0.016   0.050    5280  0.0087
1362            RX      0     1.8      72   176.4   183.6     288   358.2     360
1363            RY      3       1     0.5       0       0     0.5       1       3
                *
1                                   HEC-1 INPUT                                          PAGE 38

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1364            KK    52i   BASIN
1365            KM   Subbasin at NEC of Camelback Rd. & SR51.
1366            BA  0.309
1367            LG   1.29    0.25    4.70    0.37      22
1368            UC  0.771   0.672
1369            UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1370            UA    100
                *

1371            KK   C52i COMBINE
1372            KM   Combine hydrographs 52i, R52gS, and C48iW.
1373            HC      3    2.29
                *

1374            KK   E52i  DIVERT
1375            KM   Divert flow into pipe for routing through offline detention basin.
1376            KM   Pipe flow = 95 cfs
1377            DT  DB52i
1378            DI      0      95    1000   10000
1379            DQ      0       0     905    9905
                *

1380            KK  BDB52iRETRIEVE
1381            KM   Retrieve diverted surface flow from DB52i.
1382            DR  DB52i
                *

1383            KK   S52i STORAGE
1384            KM   Offline Regional Detention Basin, 27 ac-ft.
1385            RS      1    STOR       0
1386            SV      0       1       5      12      21      27      33
1387            SE      0       4       8      12      16      18      20
1388            SQ      0      43      60      74      86      91     860
                *

1389            KK  CC52i COMBINE
1390            KM   Combine hydrographs B52i and S52i.
1391            HC      2    2.29
                *

1392            KK   D52i  DIVERT
1393            KM   Divert 95 cfs into pipe.
1394            DT  D52iP
1395            DI      0      95    1000   10000
1396            DQ      0      95      95      95
                *

1397            KK  R52iS   ROUTE
```

```
1398          KM    Route surface flow south from Subbasin 52i to Subbasin 52k.
1399          RS       4    FLOW      -1
1400          RC   0.050   0.016   0.050    5280  0.0038
1401          RX       0     0.5      20      49      51      80    99.5     100
1402          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE 39

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1403          KK  BD52iP RETRIEVE
1404          KM    Retrieve diverted pipe flow from D52iP.
1405          DR   D52iP
              *

1406          KK   P52iS   ROUTE
1407          KM    Route pipe flow from Camelback/SR51. to Indian School/SR51.
1408          RK    5250  0.0031   0.015            CIRC    4.50
              *

1409          KK   C52iS COMBINE
1410          KM    Combine hydrographs R52iS and P52iS.
1411          HC       2    2.29
              *

1412          KK     24k   BASIN
1413          KM    Subbasin at NEC of Indian School Rd. & 44th St.
1414          BA   0.192
1415          LG    0.60    0.25    4.60    0.40      23
1416          UC   0.616   0.486
1417          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1418          UA     100
              *

1419          KK   D24kW  DIVERT
1420          KM    Divert surface flow to south.
1421          DT   D24kS
1422          DI       0     100    1000   10000
1423          DQ       0      50     502    5018
              *

1424          KK   R24kW   ROUTE
1425          KM    Route surface flow west from Subbasin 24k to Subbasin 28k.
1426          RS       4    FLOW      -1
1427          RC   0.050   0.016   0.050    2640  0.0045
1428          RX       0    1.85      74   181.3   188.7     296  368.15     370
1429          RY       3       1     0.5       0       0     0.5       1       3
              *

1430          KK   ARC40  INFLOW
1431          KM   Inflow from Arcadia area from 40th Street through storm drain system.
1432          KM   Maximum flow 47 cfs.
1433          IN      60
1434          BA     0.1
1435          QI     0.0     0.1     0.2     0.5       1       1       1       1       1       1
1436          QI       1       1       2      47      16       5       2       1       1       1
1437          QI       1       1     0.5     0.1     0.0
              *
1                                        HEC-1 INPUT                                                    PAGE 40

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1438          KK  PARC40   ROUTE
1439          KM    Route pipe flow from Arcadia to Indian School/40th St.
1440          RK    5400  0.0050   0.015            CIRC    4.00
              *

1441          KK     28k   BASIN
1442          KM    Subbasin at NEC of Indian School Rd. & 40th St.
1443          BA   0.428
1444          LG    1.19    0.25    4.60    0.40      22
1445          UC   0.806   0.601
1446          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1447          UA     100
              *

1448          KK    C28k COMBINE
1449          KM    Combine hydrographs 28k, PARC40, and R24kW.
1450          HC       3    0.72
              *

1451          KK    D28k  DIVERT
1452          KM    Divert 131 cfs into pipe.
1453          DT   D28kP
```

```
1454          DI       0     131    1000   10000
1455          DQ       0     131     131     131
              *

1456          KK   D28kW  DIVERT
1457          KM    Divert surface flow to south.
1458          DT   D28kS
1459          DI       0     100    1000   10000
1460          DQ       0      42     424    4242
              *

1461          KK   R28kW   ROUTE
1462          KM    Route surface flow west from Subbasin 28k to Subbasin 32k.
1463          RS       4    FLOW      -1
1464          RC   0.050   0.016   0.050    2640  0.0038
1465          RX       0    1.85      74   181.3   188.7     296  368.15     370
1466          RY       3       1     0.5       0       0     0.5       1       3
              *

1467          KK     32k   BASIN
1468          KM   Subbasin at NEC of Indian School Rd. & 36th St.
1469          BA   0.506
1470          LG    1.88    0.25    4.50    0.43      21
1471          UC   0.921   0.689
1472          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1473          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1474          KK    C32k COMBINE
1475          KM    Combine hydrographs 32k and R28kW.
1476          HC       2    1.23
              *

1477          KK    D32k  DIVERT
1478          KM    Divert 45 cfs into 48" pipe.
1479          DT   D32kP
1480          DI       0      45    1000   10000
1481          DQ       0      45      45      45
              *

1482          KK   D32kW  DIVERT
1483          KM    Divert surface flow to south.
1484          DT   D32kS
1485          DI       0     100    1000   10000
1486          DQ       0      46     457    4571
              *

1487          KK   R32kW   ROUTE
1488          KM    Route surface flow west from Subbasin 32k to Subbasin 36k.
1489          RS       3    FLOW      -1
1490          RC   0.050   0.016   0.050    2640  0.0045
1491          RX       0    1.85      74   181.3   188.7     296  368.15     370
1492          RY       3       1     0.5       0       0     0.5       1       3
              *

1493          KK     36k   BASIN
1494          KM    Subbasin at NEC of Indian School Rd. & 32nd St.
1495          BA   0.508
1496          LG    1.39    0.25    4.65    0.39      24
1497          UC   0.833   0.615
1498          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1499          UA     100
              *

1500          KK  BD36iP RETRIEVE
1501          KM    Retrieve diverted pipe flow from D36iP.
1502          DR   D36iP
              *

1503          KK   P36iS   ROUTE
1504          KM    Route pipe flow from Camelback/32nd St. to Indian School/32nd St.
1505          RK    5350  0.0050   0.015             CIRC     3.0
              *

1506          KK  BD36iS RETRIEVE
1507          KM    Retrieve diverted surface flow from D36iS.
1508          DR   D36iS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
KK   R36iS   ROUTE
KM    Route surface flow south from Subbasin 36i to Subbasin 36k.
RS       6    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0080
RX       0    2.05      82   200.9   209.1     328  407.95     410
RY       3       1     0.5       0       0     0.5       1       3

KK   C36iS COMBINE
KM    Combine hydrographs R36iS and P36iS.
HC       2    0.34
*

KK    C36k COMBINE
KM    Combine hydrographs 36k, C36iS, and R32kW.
HC       3    2.07
*

KK    D36k  DIVERT
KM    Divert 59 cfs into pipe.
DT   D36kP
DI       0      59    1000   10000
DQ       0      59      59      59
*

KK   D36kW  DIVERT
KM    Divert surface flow to south.
DT   D36kS
DI       0     100    1000   10000
DQ       0      44     439    4394
*

KK   R36kW   ROUTE
KM    Route surface flow west from Subbasin 36k to Subbasin 40k.
RS       3    FLOW      -1
RC   0.050   0.016   0.050    2640  0.0045
RX       0    1.35      54   132.3   137.7     216  268.65     270
RY       3       1     0.5       0       0     0.5       1       3
*

KK  BD40iS RETRIEVE
KM    Retrieve diverted surface flow from D40iS.
DR   D40iS
*

KK   R40iS   ROUTE
KM    Route surface flow south from Subbasin 40i to Subbasin 40k.
RS       8    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0068
RX       0       1      40      98     102     160     199     200
RY       3       1     0.5       0       0     0.5       1       3
*
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK     40k   BASIN
KM    Subbasin at NEC of Indian School Rd. & 28th St.
BA   0.504
LG    1.14    0.25    4.80    0.37      24
UC   0.893   0.667
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK    C40k COMBINE
KM    Combine hydrographs 40k, R40iS, and R36kW.
HC       3    2.80
*

KK    D40k  DIVERT
KM    Divert 29 cfs into pipe.
DT   D40kP
DI       0      29     100    1000   10000
DQ       0      29      29      29      29
*

KK   D40kW  DIVERT
KM    Divert surface flow to south.
DT   D40kS
DI       0     100    1000   10000
DQ       0      42     421    4206
*

KK   R40kW   ROUTE
```

```
1567          KM    Route surface flow west from Subbasin 40k to Subbasin 44k.
1568          RS       3    FLOW      -1
1569          RC   0.050   0.016   0.050    2640  0.0053
1570          RX       0    1.35      54   132.3   137.7     216  268.65     270
1571          RY       3       1     0.5       0       0     0.5       1       3
              *

1572          KK     44k   BASIN
1573          KM    Subbasin at NEC of Indian School Rd. & 24th St.
1574          BA   0.508
1575          LG    1.00    0.25    4.80    0.38      32
1576          UC   0.844   0.623
1577          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1578          UA     100
              *

1579          KK  BD44iP RETRIEVE
1580          KM    Retrieve diverted pipe flow from D44iP.
1581          DR   D44iP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1582          KK   P44iS   ROUTE
1583          KM    Route pipe flow from Camelback/24th St. to Indian School/24th St.
1584          RK    5300  0.0030   0.015            CIRC    3.50
              *

1585          KK  BD44iS RETRIEVE
1586          KM    Retrieve diverted surface flow from D44iS.
1587          DR   D44iS
              *

1588          KK   R44iS   ROUTE
1589          KM    Route surface flow south from Subbasin 44i to Subbasin 44k.
1590          RS       5    FLOW      -1
1591          RC   0.050   0.016   0.050    5280  0.0064
1592          RX       0     0.5      20      49      51      80    99.5     100
1593          RY       3       1     0.5       0       0     0.5       1       3
              *

1594          KK   C44iS COMBINE
1595          KM    Combine hydrographs R44iS and P44iS.
1596          HC       2    1.18
              *

1597          KK    C44k COMBINE
1598          KM    Combine hydrographs 44k, C44iS, and R40kW.
1599          HC       3    3.93
              *

1600          KK    D44k  DIVERT
1601          KM    Divert 71 cfs into pipe.
1602          DT   D44kP
1603          DI       0      71    1000   10000
1604          DQ       0      71      71      71
              *

1605          KK   D44kW  DIVERT
1606          KM    Divert surface flow to south.
1607          DT   D44kS
1608          DI       0     100    1000   10000
1609          DQ       0      38     380    3797
              *

1610          KK   R44kW   ROUTE
1611          KM    Route surface flow west from Subbasin 44k to Subbasin 48k.
1612          RS       2    FLOW      -1
1613          RC   0.050   0.016   0.050    2640  0.0045
1614          RX       0    1.35      54   132.3   137.7     216  268.65     270
1615          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1616          KK     48k   BASIN
1617          KM    Subbasin at NEC of Indian School Rd. & 20th St.
1618          BA   0.500
1619          LG    0.82    0.25    4.80    0.38      41
1620          UC   0.876   0.656
1621          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1622          UA     100
```

```
*

KK    S48k STORAGE
KM    Online Local Retention Basin, 2 ac-ft.
RS       1    STOR       0
SV       0     0.8       2       4
SE       0       2       4       6
SS       4     100     2.7     1.5
*

KK  BD48iS RETRIEVE
KM    Retrieve diverted surface flow from D48iS.
DR   D48iS
*

KK   R48iS   ROUTE
KM    Route surface flow south from Subbasin 48i to Subbasin 48k.
RS       6    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0053
RX       0     0.8      32    78.4    81.6     128   159.2     160
RY       3       1     0.5       0       0     0.5       1       3
*

KK    C48k COMBINE
KM    Combine hydrographs S48k, R48iS, and R44kW.
HC       3    4.96
*

KK   D48kW  DIVERT
KM    Divert surface flow to south.
DT   D48kS
DI       0     100    1000   10000
DQ       0      45     448    4475
*

KK   R48kW   ROUTE
KM    Route surface flow west from Subbasin 48k to Subbasin 52k.
RS       2    FLOW      -1
RC   0.050   0.016   0.050    1625  0.0049
RX       0     1.4      56   137.2   142.8     224   278.6     280
RY       3       1     0.5       0       0     0.5       1       3
*
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK     52k   BASIN
KM    Subbasin at NEC of Indian School Rd. & SR51
BA   0.295
LG    0.59    0.25    4.80    0.37      31
UC   0.897   0.816
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK    C52k COMBINE
KM    Combine hydrographs 52k, C52iS, and R48kW.
HC       3    5.83
*

KK    D52k  DIVERT
KM    Divert 201 cfs into pipe.
DT   D52kP
DI       0     100     201   10000
DQ       0     100     201     201
*

KK   D52kW  DIVERT
KM    Divert surface flow to south.
DT   D52kS
DI       0     100    1000   10000
DQ       0      45     451    4513
*

KK   R52kW   ROUTE
KM    Route surface flow west from Subbasin 52k to Subbasin 54k.
RS       1    FLOW      -1
RC   0.050   0.016   0.050    1100  0.0026
RX       0     0.8      32    78.4    81.6     128   159.2     160
RY       3       1     0.5       0       0     0.5       1       3
*

KK  BD54iP RETRIEVE
KM    Retrieve diverted pipe flow from D54iP.
DR   D54iP
```

```
                *

1681            KK   P54iS   ROUTE
1682            KM    Route pipe flow from Camelback/16th St. to Indian School/16th St.
1683            RK    5800  0.0030   0.015            CIRC     4.0
                *

1684            KK  BD54iS RETRIEVE
1685            KM    Retrieve diverted surface flow from D54iS.
1686            DR   D54iS
                *
1                                        HEC-1 INPUT                                                    PAGE 47

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1687            KK   R54iS   ROUTE
1688            KM    Route surface flow south from Subbasin 54i to Subbasin 54k.
1689            RS       9    FLOW      -1
1690            RC   0.050   0.016   0.050    5800  0.0034
1691            RX       0     0.5      20      49      51      80    99.5     100
1692            RY       3       1     0.5       0       0     0.5       1       3
                *

1693            KK   C54iS COMBINE
1694            KM    Combine hydrographs R54iS and P54iS.
1695            HC       2    0.44
                *

1696            KK     54k   BASIN
1697            KM    Subbasin at NEC of Grand Canal & 16th St.
1698            BA   0.245
1699            LG    0.33    0.24    4.80    0.38      39
1700            UC   0.902   0.873
1701            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1702            UA     100
                *

1703            KK    C54k COMBINE
1704            KM    Combine hydrographs 54k, C54iS, and R52kW.
1705            HC       3    1.18
                *

1706            KK    D54k  DIVERT
1707            KM    Divert 124 cfs into pipe.
1708            DT   D54kP
1709            DI       0     100     124   10000
1710            DQ       0     100     124     124
                *

1711            KK   D54kW  DIVERT
1712            KM    Divert surface flow to south.
1713            DT   D54kS
1714            DI       0      37     118     382     658    1241
1715            DQ       0       0      40     207     393     800
                *

1716            KK   R54kW   ROUTE
1717            KM    Route surface flow west from Subbasin 54k to Subbasin 56k.
1718            RS       7    FLOW      -1
1719            RC   0.050   0.016   0.050    3500  0.0005
1720            RX       0     1.6      64   156.8   163.2     256   318.4     320
1721            RY       3       1     0.5       0       0     0.5       1       3
                *
1                                        HEC-1 INPUT                                                    PAGE 48

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1722            KK  BD56iP RETRIEVE
1723            KM    Retrieve diverted pipe flow from D56iP.
1724            DR   D56iP
                *

1725            KK   P56iS   ROUTE
1726            KM    Route pipe flow from Camelback/12th St. to Grand Canal/12th St.
1727            RK    3400  0.0031   0.015            CIRC     6.0
                *

1728            KK  BD56iS RETRIEVE
1729            KM    Retrieve diverted surface flow from D56iS.
1730            DR   D56iS
                *

1731            KK   R56iS   ROUTE
1732            KM    Route surface flow south from Subbasin 56i to Subbasin 56k.
```

```
1733          RS       9    FLOW      -1
1734          RC   0.050   0.016   0.050    4200  0.0052
1735          RX       0    1.05      42   102.9   107.1     168  208.95     210
1736          RY       3       1     0.5       0       0     0.5       1       3
              *

1737          KK   C56iS COMBINE
1738          KM    Combine hydrographs R56iS and P56iS.
1739          HC       2    1.62
              *

1740          KK     56k   BASIN
1741          KM   Subbasin at NEC of Grand Canal & 12th St.
1742          BA   0.423
1743          LG    0.90    0.24    4.80    0.38      34
1744          UC   0.833   0.529
1745          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1746          UA     100
              *

1747          KK    C56k COMBINE
1748          KM    Combine hydrographs 56k, C56iS, and R54kW.
1749          HC       3    2.78
              *

1750          KK  BD60iP RETRIEVE
1751          KM    Retrieve diverted pipe flow from D60iP.
1752          DR   D60iP
              *

1753          KK  D60iP1  DIVERT
1754          KM    Divert flow into pipe.
1755          KM   Total flow for two pipes is 211 cfs, and 143 cfs going to east(P2)
1756          DT  D60iP2
1757          DI       0     211     220
1758          DQ       0     143     143
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1759          KK  P60iS1  ROUTE
1760          KM    Route pipe flow from Camelback/7th St. to Grand Canal/7th St.
1761          RK    2600  0.0031   0.015            CIRC     6.0
              *

1762          KK  B60iP2 RETRIEVE
1763          KM    Retrieve diverted pipe flow from D60iP2.
1764          DR  D60iP2
              *

1765          KK  P60iS2  ROUTE
1766          KM    Route pipe flow from Camelback/12th St. to Grand Canal/12th St.
1767          RK    2600  0.0031   0.015            CIRC     7.0
              *

1768          KK  BD60iS RETRIEVE
1769          KM    Retrieve diverted surface flow from D60iS.
1770          DR   D60iS
              *

1771          KK   R60iS   ROUTE
1772          KM    Route surface flow south from Subbasin 60i to Subbasin 60k.
1773          RS       3    FLOW      -1
1774          RC   0.050   0.016   0.050    3000  0.0047
1775          RX       0     1.3      52   127.4   132.6     208   258.7     260
1776          RY       3       1     0.5       0       0     0.5       1       3
              *

1777          KK   C60iS COMBINE
1778          KM    Combine hydrographs R60iS and P60iS.
1779          HC       3    3.02
              *

1780          KK     60k   BASIN
1781          KM    Subbasin at NEC of Grand Canal & 7th St.
1782          BA   0.266
1783          LG    0.46    0.24    4.80    0.37      36
1784          UC   0.789   0.586
1785          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1786          UA     100
              *

1787          KK    C60k COMBINE
1788          KM    Combine hydrographs 60k and C60iS.
```

```
1789          HC       2    3.29
              *

1790          KK   D60kP  DIVERT
1791          KM   Divert flow into pipe.
1792          KM   Total pipe flow is 284 (P1 = 159, P2 = 125)cfs
1793          DT    D60k
1794          DI       0     100     135    1000   10000
1795          DQ       0       0       0     865    9865
              *
1                                        HEC-1 INPUT                                                    PAGE 50

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1796          KK  D60kP1  DIVERT
1797          KM    Divert flow into pipe.
1798          KM    Flow for P1 = 10.0 cfs going east for storms greater than 2-year
1799          KM    Minimum flow to east to keep the model working
1800          DT  D60kP2
1801          DI       0     135     300
1802          DQ       0     125     290
              *

1803          KK   P60kE   ROUTE
1804          KM    Route pipe flow from Grand Canal/7th St. to Grand Canal/12th St.
1805          RK    3000  0.0030   0.015            CIRC     7.0
              *

1806          KK   CC56k COMBINE
1807          KM    Combine hydrographs C56k and P60kE.
1808          HC       2    4.46
              *

1809          KK    D56k  DIVERT
1810          KM    Divert 303 cfs into pipe.
1811          DT   D56kP
1812          DI       0     100     303   10000
1813          DQ       0     100     303     303
              *

1814          KK   D56kW  DIVERT
1815          KM    Divert surface flow to south.
1816          DT   D56kS
1817          DI       0      73     124     325     649    1102
1818          DQ       0       0      24     157     393     734
              *

1819          KK   R56kW   ROUTE
1820          KM    Route surface flow west from Subbasin 56k to Subbasin 60k.
1821          RS       5    FLOW      -1
1822          RC   0.050   0.016   0.050    3000  0.0006
1823          RX       0    0.85      34    83.3    86.7     136  169.15     170
1824          RY       3       1     0.5       0       0     0.5       1       3
              *

1825          KK   BD60k RETRIEVE
1826          KM    Retrieve diverted surface flow from D60k.
1827          DR    D60k
              *

1828          KK   CC60k COMBINE
1829          KM    Combine hydrographs D60k and R56kW.
1830          HC       2    4.46
              *
1                                        HEC-1 INPUT                                                    PAGE 51

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1831          KK   D60kW  DIVERT
1832          KM    Divert surface flow to south.
1833          DT   D60kS
1834          DI       0      49     106     362     554     788    1067
1835          DQ       0       0      36     235     390     583     814
              *

1836          KK   R60kW   ROUTE
1837          KM    Route surface flow west from Subbasin 60k to Subbasin 64k.
1838          RS       6    FLOW      -1
1839          RC   0.050   0.016   0.050    2800  0.0007
1840          RX       0     0.8      32    78.4    81.6     128   159.2     160
1841          RY       3       1     0.5       0       0     0.5       1       3
              *

1842          KK     64k   BASIN
```

```
1843          KM    Subbasin at NEC of Grand Canal & Central Ave.
1844          BA   0.206
1845          LG    1.25    0.14    7.60    0.12      31
1846          UC   0.660   0.412
1847          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1848          UA     100
              *

1849          KK  BD64iS RETRIEVE
1850          KM    Retrieve diverted surface flow from D64iS.
1851          DR   D64iS
              *

1852          KK   R64iS   ROUTE
1853          KM    Route surface flow south from Subbasin 64i to Subbasin 64k.
1854          RS       3    FLOW      -1
1855          RC   0.050   0.016   0.050    2130  0.0047
1856          RX       0    1.25      50   122.5   127.5     200  248.75     250
1857          RY       3       1     0.5       0       0     0.5       1       3
              *

1858          KK    C64k COMBINE
1859          KM    Combine hydrographs 64k, R64iS, and R60kW.
1860          HC       3    6.43
              *

1861          KK    S64k STORAGE
1862          KM    Online Regional Retention Basin, 12 ac-ft.
1863          RS       1    STOR       0
1864          SV       0      12     149
1865          SE       0     0.5     2.5
1866          SS     0.5     500     2.7     1.5
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1867          KK  BD64iP RETRIEVE
1868          KM    Retrieve diverted pipe flow from D64iP.
1869          DR   D64iP
              *

1870          KK   P64iS   ROUTE
1871          KM    Route pipe flow from Camelback/Central Ave. to Grand Canal/Central Ave.
1872          RK    2000  0.0034   0.015            CIRC     6.0
              *

1873          KK   CC64k COMBINE
1874          KM    Combine hydrographs P64iS and S64i.
1875          HC       2    6.43
              *

1876          KK    D64k  DIVERT
1877          KM    Divert 214 cfs into pipe.
1878          DT   D64kP
1879          DI       0     100     214   10000
1880          DQ       0     100     214     214
              *

1881          KK   D64kW  DIVERT
1882          KM    Divert surface flow to south.
1883          DT   D64kS
1884          DI       0     138     214     344     519    1004
1885          DQ       0       0      38     125     251     617
              *

1886          KK   R64kW   ROUTE
1887          KM    Route surface flow west from Subbasin 64k to Subbasin 68k.
1888          RS       3    FLOW      -1
1889          RC   0.050   0.016   0.050    2800  0.0008
1890          RX       0    0.75      30    73.5    76.5     120  149.25     150
1891          RY       3       1     0.5       0       0     0.5       1       3
              *

1892          KK     68k   BASIN
1893          KM    Subbasin at NEC of Grand Canal & 7th Ave.
1894          BA   0.204
1895          LG    0.79    0.14    8.40    0.09      26
1896          UC   0.712   0.434
1897          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1898          UA     100
              *

1899          KK    C68k COMBINE
1900          KM    Combine hydrographs 68k, C68iS, and R64kW.
```

```
1901          HC       3   12.71
              *
                                                HEC-1 INPUT                                                    PAGE 53

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1902          KK    D68k  DIVERT
1903          KM    Divert 114 cfs into pipe.
1904          DT   D68kP
1905          DI       0     100     114   10000
1906          DQ       0     100     114     114
              *

1907          KK   D68kW  DIVERT
1908          KM    Divert surface flow to south.
1909          DT   D68kS
1910          DI       0      49     105     209     352     747    1283
1911          DQ       0       0      35     113     225     542     977
              *

1912          KK   R68kW   ROUTE
1913          KM    Route surface flow west from Subbasin 68k to Subbasin 72k.
1914          RS       4    FLOW      -1
1915          RC   0.050   0.016   0.050    3000  0.0007
1916          RX       0     1.1      44   107.8   112.2     176   218.9     220
1917          RY       3       1     0.5       0       0     0.5       1       3
              *

1918          KK     72k   BASIN
1919          KM   Subbasin at NEC of Grand Canal & 15th Ave.
1920          BA   0.281
1921          LG    0.66    0.14    8.40    0.09      27
1922          UC   0.781   0.490
1923          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1924          UA     100
              *

1925          KK    S72k STORAGE
1926          KM    Online Local Retention Basin, 6 ac-ft.
1927          RS       1    STOR       0
1928          SV       0       6      12
1929          SE       0       1       2
1930          SS       1     400     2.7     1.5
              *

1931          KK  B72iP1 RETRIEVE
1932          KM    Retrieve diverted pipe flow from D72iP1.
1933          DR  D72iP1
              *

1934          KK   P72iS   ROUTE
1935          KM    Route pipe flow from Camelback/15th Ave. to Grand Canal/15th Ave.
1936          RK    3300  0.0024   0.015             CIRC     6.0
              *
                                                HEC-1 INPUT                                                    PAGE 54

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1937          KK  BD72iS RETRIEVE
1938          KM    Retrieve diverted surface flow from D72iS.
1939          DR   D72iS
              *

1940          KK   R72iS   ROUTE
1941          KM    Route surface flow south from Subbasin 72i to Subbasin 72k.
1942          RS       3    FLOW      -1
1943          RC   0.050   0.016   0.050    2900  0.0028
1944          RX       0    1.05      42   102.9   107.1     168  208.95     210
1945          RY       3       1     0.5       0       0     0.5       1       3
              *

1946          KK   C72iS COMBINE
1947          KM    Combine hydrographs P72iS and R72iS.
1948          HC       2    8.68
              *

1949          KK    C72k COMBINE
1950          KM    Combine hydrographs S72k, C72iS, and R68kW.
1951          HC       3   12.99
              *

1952          KK   CC72k COMBINE
1953          KM    Combine hydrographs D76kP2 and C72k.
1954          HC       2   12.99
```

```
                *

1955            KK    D72k  DIVERT
1956            KM    Divert 281 cfs into pipe.
1957            DT   D72kP
1958            DI       0      100      281   10000
1959            DQ       0      100      281     281
                *

1960            KK   D72kW  DIVERT
1961            KM    Divert surface flow to south.
1962            DT   D72kS
1963            DI       0       51       99     186     460     860    1108
1964            DQ       0        0       29      95     314     642     847
                *

1965            KK   R72kW   ROUTE
1966            KM    Route surface flow west from Subbasin 72k to Subbasin 76k.
1967            RS       6    FLOW       -1
1968            RC   0.050   0.016   0.050    2800  0.0004
1969            RX       0     1.1      44   107.8   112.2     176   218.9     220
1970            RY       3       1     0.5       0       0     0.5       1       3
                *
1                                          HEC-1 INPUT                                                    PAGE 55

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1971            KK   B76k1 RETRIEVE
1972            KM    Retrieve diverted surface flow from D76k1.
1973            DR   D76k1
                *

1974            KK   CC76k COMBINE
1975            KM    Combine hydrographs D76k1 and R72kW.
1976            HC       2   13.31
                *

1977            KK    D76k  DIVERT
1978            KM    Divert flow 43 (41% of 106) cfs into pipe.
1979            DT   D76kP
1980            DI       0       43      100    1000   10000
1981            DQ       0       43       43      43      43
                *

1982            KK   D76kW  DIVERT
1983            KM    Divert surface flow to south.
1984            DT   D76kS
1985            DI       0       28      132     348     669    1096
1986            DQ       0        0       76     253     519     877
                *

1987            KK   R76kW   ROUTE
1988            KM    Route surface flow west from Subbasin 76k to Subbasin 80k.
1989            RS       9    FLOW       -1
1990            RC   0.050   0.016   0.050    3500  0.0003
1991            RX       0    1.35      54   132.3   137.7     216  268.65     270
1992            RY       3       1     0.5       0       0     0.5       1       3
                *

1993            KK     80k   BASIN
1994            KM    Subbasin at NEC of Grand Canal & 23rd Ave.
1995            BA   0.428
1996            LG    0.47    0.15    8.40    0.09      26
1997            UC   0.811   0.528
1998            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1999            UA     100
                *

2000            KK   BD80i RETRIEVE
2001            KM    Retrieve diverted surface flow from D80i.
2002            DR    D80i
                *

2003            KK   R80iS   ROUTE
2004            KM    Route surface flow south from Subbasin 80i to Subbasin 80k.
2005            RS       2    FLOW       -1
2006            RC   0.050   0.016   0.050    3500  0.0038
2007            RX       0    0.75      30    73.5    76.5     120  149.25     150
2008            RY       3       1     0.5       0       0     0.5       1       3
                *
2                                          HEC-1 INPUT                                                    PAGE 56

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
2009          KK  B80kP1 RETRIEVE
2010          KM    Retrieve diverted pipe flow from D80kP1.
2011          DR  D80kP1
              *

2012          KK    C80k COMBINE
2013          KM    Combine hydrographs 80k,R80iS, and D80kP1.
2014          HC       3    3.68
              *

2015          KK    D80k  DIVERT
2016          KM    Divert 63 (59% of 106) cfs into pipe.
2017          DT   D80kP
2018          DI       0      63     100    1000   10000
2019          DQ       0      63      63      63      63
              *

2020          KK   CC80k COMBINE
2021          KM    Combine hydrographs R76kW and D80k.
2022          HC       2    4.68
              *

2023          KK   D80kW  DIVERT
2024          KM    Divert surface flow to south.
2025          DT   D80kS
2026          DI       0     152     286     833    1526
2027          DQ       0       0      41     316     721
              *

2028          KK   R80kW   ROUTE
2029          KM    Route surface flow west from Subbasin 80k to Subbasin 84k.
2030          RS       2    FLOW      -1
2031          RC   0.050   0.016   0.050    1500  0.0010
2032          RX       0    1.85      74   181.3   188.7     296  368.15     370
2033          RY       3       1     0.5       0       0     0.5       1       3
              *

2034          KK     84k   BASIN
2035          KM    Subbasin at NWC of Grand Canal & 23rd Ave.
2036          BA   0.311
2037          LG    0.57    0.15    8.40    0.09      35
2038          UC   1.008   1.031
2039          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2040          UA     100
              *

2041          KK  BD84iS RETRIEVE
2042          KM    Retrieve diverted surface flow from D84iS.
2043          DR   D84iS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2044          KK   R84iS   ROUTE
2045          KM    Route surface flow south from Subbasin 84i to Subbasin 84k.
2046          RS       9    FLOW      -1
2047          RC   0.050   0.016   0.050    6900  0.0029
2048          RX       0    0.75      30    73.5    76.5     120  149.25     150
2049          RY       3       1     0.5       0       0     0.5       1       3
              *

2050          KK    C84k COMBINE
2051          KM    Combine hydrographs 84k, R84iS, and R80kW.
2052          HC       3    4.99
              *

2053          KK   R84kS   ROUTE
2054          KM    Route surface flow south from Subbasin 84k to Subbasin 84m.
2055          RS       3    FLOW      -1
2056          RC   0.050   0.016   0.050    4570  0.0035
2057          RX       0     0.5      20      49      51      80    99.5     100
2058          RY       3       1     0.5       0       0     0.5       1       3
              *

2059          KK     84m   BASIN
2060          KM    Subbasin at NWC of Thomas Rd. & 23rd Ave.
2061          BA   0.209
2062          LG    0.24    0.15    9.70    0.06      24
2063          UC   0.838   0.847
2064          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2065          UA     100
              *

2066          KK    C84m COMBINE
```

```
2067          KM    Combine hydrographs 84m and R84kS.
2068          HC       2    5.20
              *

2069          KK     I17   BASIN
2070          KM    Subbasin for I-17 from GC to ACDC.
2071          BA   0.293
2072          LG    0.10    0.25    4.80    0.25      99
2073          UC   0.639   0.627
2074          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2075          UA     100
              *

2076          KK    D84m  DIVERT
2077          KM    Divert 249 cfs into pipe.
2078          DT   D84mP
2079          DI       0     100     249   10000
2080          DQ       0     100     249     249
              *
1                                        HEC-1 INPUT                                          PAGE 58

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2081          KK   CC84m COMBINE
2082          KM    Combine hydrographs C84m and D84m.
2083          HC       2    5.49
              *

2084          KK   D84mE  DIVERT
2085          KM    Divert surface flow to south.
2086          DT   D84mS
2087          DI       0     100    1000   10000
2088          DQ       0      38     384    3841
              *

2089          KK   R84mE   ROUTE
2090          KM    Route surface flow east from Subbasin 84m to Subbasin 80m.
2091          RS       3    FLOW      -1
2092          RC   0.050   0.016   0.050    2540  0.0008
2093          RX       0     1.3      52   127.4   132.6     208   258.7     260
2094          RY       3       1     0.5       0       0     0.5       1       3
              *

2095          KK     80m   BASIN
2096          KM    Subbasin at NWC of Thomas Rd. & 19th Ave.
2097          BA   0.541
2098          LG    0.46    0.15    8.40    0.09      26
2099          UC   0.795   0.520
2100          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2101          UA     100
              *

2102          KK  BD80kS RETRIEVE
2103          KM    Retrieve diverted surface flow from D80kS.
2104          DR   D80kS
              *

2105          KK   R80kS   ROUTE
2106          KM    Route surface flow south from Subbasin 80k to Subbasin 80m.
2107          RS       3    FLOW      -1
2108          RC   0.050   0.016   0.050    5900  0.0037
2109          RX       0       1      40      98     102     160     199     200
2110          RY       3       1     0.5       0       0     0.5       1       3
              *

2111          KK    C80m COMBINE
2112          KM    Combine hydrographs R84mE, R80kS, and 80m.
2113          HC       3    6.03
              *

2114          KK   D80mE  DIVERT
2115          KM    Divert surface flow to south.
2116          DT   D80mS
2117          DI       0     100    1000   10000
2118          DQ       0      58     576    5763
              *
1                                        HEC-1 INPUT                                          PAGE 59

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2119          KK   R80mE   ROUTE
2120          KM    Route surface flow east from Subbasin 80m to Subbasin 76m.
2121          RS       3    FLOW      -1
2122          RC   0.050   0.016   0.050    2640  0.0008
```

```
2123          RX       0     0.8      32    78.4    81.6     128   159.2     160
2124          RY       3       1     0.5       0       0     0.5       1       3
              *

2125          KK     761   BASIN
2126          KM    Subbasin at NEC of Indian School Rd. & 19th Ave.
2127          BA   0.183
2128          LG    0.66    0.15    8.80    0.07      22
2129          UC   0.523   0.263
2130          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2131          UA     100
              *

2132          KK  BD80kP RETRIEVE
2133          KM    Retrieve diverted pipe flow from D80kP.
2134          DR   D80kP
              *

2135          KK  BD76kP RETRIEVE
2136          KM    Retrieve diverted pipe flow from D76kP.
2137          DR   D76kP
              *

2138          KK   C76kP COMBINE
2139          KM    Combine hydrographs D76kP and D80kP.
2140          HC       2   17.25
              *

2141          KK   P76kS   ROUTE
2142          KM    Route pipe flow from Subbasin 80k to Indian School/19th Ave.
2143          RK    1600  0.0039   0.015            CIRC     4.5
              *

2144          KK  BD76kS RETRIEVE
2145          KM    Retrieve diverted surface flow from D76kS.
2146          DR   D76kS
              *

2147          KK   R76kS   ROUTE
2148          KM    Route surface flow south from Subbasin 76k to Subbasin 761.
2149          RS       1    FLOW      -1
2150          RC   0.050   0.016   0.050    1700  0.0050
2151          RX       0       1      40      98     102     160     199     200
2152          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2153          KK   C76kS COMBINE
2154          KM    Combine hydrographs P76kS and R76kS.
2155          HC       2    4.68
              *

2156          KK    C761 COMBINE
2157          KM    Combine hydrographs 761 and C76kS.
2158          HC       2    4.86
              *

2159          KK    D761  DIVERT
2160          KM    Divert 156 cfs into pipe.
2161          DT   D761P
2162          DI       0     100     156   10000
2163          DQ       0     100     156     156
              *

2164          KK   R761S   ROUTE
2165          KM    Route surface flow south from Subbasin 761 to Subbasin 76m.
2166          RS       3    FLOW      -1
2167          RC   0.050   0.016   0.050    5280  0.0034
2168          RX       0       1      40      98     102     160     199     200
2169          RY       3       1     0.5       0       0     0.5       1       3
              *

2170          KK  BD761P RETRIEVE
2171          KM    Retrieve diverted pipe flow from D761P.
2172          DR   D761P
              *

2173          KK   P761S   ROUTE
2174          KM    Route pipe flow from Indian School/19th Ave. to Thomas/19th Ave.
2175          RK    5300  0.0037   0.015            CIRC    5.25
              *

2176          KK   C761S COMBINE
```

```
2177          KM    Combine hydrographs R76lS and P76lS.
2178          HC       2    4.86
              *

2179          KK     76m   BASIN
2180          KM    Subbasin at NWC of Thomas Rd. & 15th Ave.
2181          BA   0.492
2182          LG    0.60    0.15    8.80    0.07      24
2183          UC   0.794   0.516
2184          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2185          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE 61

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2186          KK    S76m STORAGE
2187          KM    Online Local Retention Basin, 0.5 ac-ft.
2188          RS       1    STOR       0
2189          SV       0    0.47    2.27
2190          SE       0       2       4
2191          SS       2     100     2.7     1.5
              *

2192          KK    C76m COMBINE
2193          KM    Combine hydrographs R80mE, S76m, and C76lS.
2194          HC       3    6.71
              *

2195          KK   D76mP  DIVERT
2196          KM    Divert flow into pipe.
2197          KM    Total Pipe flow = 191 cfs (32 cfs to east, 159 cfs to south)
2198          DT    D76m
2199          DI       0     100     191    1000   10000
2200          DQ       0       0       0     809    9809
              *

2201          KK  D76mP1  DIVERT
2202          KM    Divert flow into pipe.
2203          KM    Total Pipe flow = 191 cfs (32 cfs to east, 159 cfs to south)
2204          DT  D76mP2
2205          DI       0     191     200
2206          DQ       0      32      34
              *

2207          KK     721   BASIN
2208          KM    Subbasin at NWC of Indian School Rd. & 7th Ave.
2209          BA   0.215
2210          LG    1.24    0.15    8.80    0.07      26
2211          UC   0.886   0.783
2212          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2213          UA     100
              *

2214          KK  BD72kP RETRIEVE
2215          KM    Retrieve diverted pipe flow from D72kP.
2216          DR   D72kP
              *

2217          KK   P72kS   ROUTE
2218          KM    Route pipe flow from Grand Canal/15th Ave. to Indian School/15th Ave.
2219          RK    2850  0.0031   0.015            CIRC    6.75
              *

2220          KK  BD72kS RETRIEVE
2221          KM    Retrieve diverted surface flow from D72kS.
2222          DR   D72kS
              *
1                                          HEC-1 INPUT                                          PAGE 62

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2223          KK   R72kS   ROUTE
2224          KM    Route surface flow south from Subbasin 72k to Subbasin 72l.
2225          RS       2    FLOW      -1
2226          RC   0.050   0.016   0.050    2900  0.0034
2227          RX       0     0.5      20      49      51      80    99.5     100
2228          RY       3       1     0.5       0       0     0.5       1       3
              *

2229          KK   C72kS COMBINE
2230          KM    Combine hydrographs R72kS and P72kS.
2231          HC       2   12.99
              *
```

```
2232          KK    C721 COMBINE
2233          KM    Combine hydrographs 721 and C72kS.
2234          HC       2   13.21
              *

2235          KK    D721  DIVERT
2236          KM    Divert 305 cfs into pipe.
2237          DT   D721P
2238          DI       0     100     305   10000
2239          DQ       0     100     305     305
              *

2240          KK   R721S   ROUTE
2241          KM    Route surface flow south from Subbasin 721 to Subbasin 72m.
2242          RS       3    FLOW      -1
2243          RC   0.050   0.016   0.050    5280  0.0030
2244          RX       0    1.05      42   102.9   107.1     168  208.95     210
2245          RY       3       1     0.5       0       0     0.5       1       3
              *

2246          KK  BD721P RETRIEVE
2247          KM    Retrieve diverted pipe flow from D721P.
2248          DR   D721P
              *

2249          KK   P721S   ROUTE
2250          KM    Route pipe flow from Indian School/15th Ave. to Thomas/15th Ave.
2251          RK    5280  0.0045   0.015            CIRC    6.50
              *

2252          KK   C721S COMBINE
2253          KM    Combine hydrographs R721S and P721S.
2254          HC       2   13.21
              *

2255          KK     72m   BASIN
2256          KM    Subbasin at NWC of Thomas Rd. & 15th Ave.
2257          BA   0.468
2258          LG    0.31    0.15    8.80    0.08      27
2259          UC   0.894   0.652
2260          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
                                           HEC-1 INPUT                                          PAGE 63

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2261          UA     100
              *

2262          KK    C72m COMBINE
2263          KM    Combine hydrographs 72m, C721S, and D76mP1.
2264          HC       3   13.67
              *

2265          KK     601   BASIN
2266          KM    Subbasin at NEC of Indian School Rd. & 7th St.
2267          BA   0.234
2268          LG    0.37    0.25    4.80    0.37      30
2269          UC   0.803   0.582
2270          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2271          UA     100
              *

2272          KK  B60kP2 RETRIEVE
2273          KM    Retrieve diverted pipe flow from D60kP2.
2274          DR  D60kP2
              *

2275          KK   P60kS   ROUTE
2276          KM    Route pipe flow from Grand Canal/7th St. to Indian School/7th St.
2277          RK    2750  0.0030   0.015            CIRC    4.50
              *

2278          KK  BD60kS RETRIEVE
2279          KM    Retrieve diverted surface flow from D60kS.
2280          DR   D60kS
              *

2281          KK   R60kS   ROUTE
2282          KM    Route surface flow south from Subbasin 60k to Subbasin 601.
2283          RS       2    FLOW      -1
2284          RC   0.050   0.016   0.050    1855  0.0054
2285          RX       0     0.5      20      49      51      80    99.5     100
2286          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
2287          KK   C60kS COMBINE
2288          KM    Combine hydrographs R60kS and P60kS.
2289          HC       2    4.46
              *

2290          KK    C601 COMBINE
2291          KM    Combine hydrographs C60kS and 601.
2292          HC       2    4.69
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2293          KK    D601  DIVERT
2294          KM    Divert 93 cfs into pipe.
2295          DT   D601P
2296          DI       0      93    1000   10000
2297          DQ       0      93      93      93
              *

2298          KK   D601W  DIVERT
2299          KM    Divert surface flow to south.
2300          DT   D601S
2301          DI       0     100    1000   10000
2302          DQ       0      73     727    7275
              *

2303          KK   R601W   ROUTE
2304          KM    Route surface flow west from Subbasin 601 to Subbasin 641.
2305          RS       5    FLOW      -1
2306          RC   0.050   0.016   0.050    2640  0.0008
2307          RX       0    0.75      30    73.5    76.5     120  149.25     150
2308          RY       3       1     0.5       0       0     0.5       1       3
              *

2309          KK     641   BASIN
2310          KM    Subbasin at NEC of Indian School Rd. & Central Ave.
2311          BA   0.295
2312          LG    1.36    0.15    8.00    0.11      21
2313          UC   1.046   0.798
2314          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2315          UA     100
              *

2316          KK  BD64kS RETRIEVE
2317          KM    Retrieve diverted surface flow from D64kS.
2318          DR   D64kS
              *

2319          KK   R64kS   ROUTE
2320          KM    Route surface flow south from Subbasin 64k to Subbasin 641.
2321          RS       2    FLOW      -1
2322          RC   0.050   0.016   0.050    2780  0.0043
2323          RX       0     0.5      20      49      51      80    99.5     100
2324          RY       3       1     0.5       0       0     0.5       1       3
              *

2325          KK    C641 COMBINE
2326          KM    Combine hydrographs 641, R64kS, and R601W.
2327          HC       3    6.96
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2328          KK    S641 STORAGE
2329          KM    Online Regional Retention Basin, 35 ac-ft.
2330          RS       1    STOR       0
2331          SV       0      35      92
2332          SE       0       2       4
2333          SS       2     900     2.7     1.5
              *

2334          KK  BD64kP RETRIEVE
2335          KM    Retrieve diverted pipe flow from D64kP.
2336          DR   D64kP
              *

2337          KK   P64kS   ROUTE
2338          KM    Route pipe flow from Grand Canal/Central Ave. to Indian School/Central Ave.
2339          RK    3300  0.0034   0.015            CIRC    6.00
              *

2340          KK   CC641 COMBINE
```

```
2341          KM    Combine hydrographs S641 and P64kS.
2342          HC       2    6.96
              *

2343          KK    D641  DIVERT
2344          KM    Divert 303 cfs into pipe.
2345          DT   D641P
2346          DI       0     100     303   10000
2347          DQ       0     100     303     303
              *

2348          KK   D641W  DIVERT
2349          KM    Divert surface flow to south.
2350          DT   D641S
2351          DI       0     100    1000   10000
2352          DQ       0      86     856    8565
              *

2353          KK   R641W   ROUTE
2354          KM    Route surface flow west from Subbasin 641 to Subbasin 681.
2355          RS       5    FLOW      -1
2356          RC   0.050   0.016   0.050    2980  0.0004
2357          RX       0     0.5      20      49      51      80    99.5     100
2358          RY       3       1     0.5       0       0     0.5       1       3
              *

2359          KK     681   BASIN
2360          KM    Subbasin at NEC of Indian School Rd. & 7th Ave.
2361          BA   0.317
2362          LG    0.59    0.15    8.80    0.07      26
2363          UC   0.929   0.755
2364          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2365          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2366          KK  BD68kP RETRIEVE
2367          KM    Retrieve diverted pipe flow from D68kP.
2368          DR   D68kP
              *

2369          KK   P68kS   ROUTE
2370          KM    Route pipe flow from Grand Canal/7th Ave. to Indian School/7th Ave.
2371          RK    2900  0.0034   0.015            CIRC    4.75
              *

2372          KK  BD68kS RETRIEVE
2373          KM    Retrieve diverted surface flow from D68kS.
2374          DR   D68kS
              *

2375          KK   R68kS   ROUTE
2376          KM    Route surface flow south from Subbasin 68k to Subbasin 681.
2377          RS       2    FLOW      -1
2378          RC   0.050   0.016   0.050    3290  0.0036
2379          RX       0     0.5      20      49      51      80    99.5     100
2380          RY       3       1     0.5       0       0     0.5       1       3
              *

2381          KK   C68kS COMBINE
2382          KM    Combine hydrographs R68kS and P68kS.
2383          HC       2   12.71
              *

2384          KK    C681 COMBINE
2385          KM    Combine hydrographs 681, C68kS, and R641W.
2386          HC       3   13.56
              *

2387          KK    D681  DIVERT
2388          KM    Divert 114 cfs into pipe.
2389          DT   D681P
2390          DI       0     100     114   10000
2391          DQ       0     100     114     114
              *

2392          KK   R681S   ROUTE
2393          KM    Route surface flow south from Subbasin 681 to Subbasin 68m.
2394          RS       4    FLOW      -1
2395          RC   0.050   0.016   0.050    5235  0.0027
2396          RX       0     1.3      52   127.4   132.6     208   258.7     260
2397          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
2398          KK  BD681P RETRIEVE
2399          KM   Retrieve diverted pipe flow from D681P.
2400          DR   D681P
              *
1                                        HEC-1 INPUT                                                    PAGE 67

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2401          KK   P681S   ROUTE
2402          KM   Route pipe flow from Indian School/7th Ave. to Thomas/7th Ave.
2403          RK   5300  0.0034   0.015            CIRC    4.75
              *

2404          KK   C681S COMBINE
2405          KM   Combine hydrographs R681S and P681S.
2406          HC      2   13.56
              *

2407          KK    24m   BASIN
2408          KM   Subbasin at NEC of Thomas Rd. & 44th St.
2409          BA   0.502
2410          LG   1.65    0.25    4.80    0.38      24
2411          UC   0.877   0.655
2412          UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2413          UA    100
              *

2414          KK   S24m STORAGE
2415          KM   Online Local Retention Basin, 0.5 ac-ft.
2416          RS      1    STOR       0
2417          SV      0     0.5     1.2
2418          SE      0       2       4
2419          SS      2     100     2.7     1.5
              *

2420          KK  BD24kS RETRIEVE
2421          KM   Retrieve diverted surface flow from D24kS.
2422          DR   D24kS
              *

2423          KK   R24kS   ROUTE
2424          KM   Route surface flow south from Subbasin 24k to Subbasin 24m.
2425          RS      6    FLOW      -1
2426          RC   0.050   0.016   0.050    5280  0.0087
2427          RX      0    1.25      50   122.5   127.5     200  248.75     250
2428          RY      3       1     0.5       0       0     0.5       1       3
              *

2429          KK   C24m COMBINE
2430          KM   Combine hydrographs S24m and R24kS.
2431          HC      2    0.69
              *

2432          KK   D24mW  DIVERT
2433          KM   Divert surface flow to south.
2434          DT   D24mS
2435          DI      0     100    1000   10000
2436          DQ      0      43     428    4278
              *
1                                        HEC-1 INPUT                                                    PAGE 68

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2437          KK   R24mW   ROUTE
2438          KM   Route surface flow west from Subbasin 24m to Subbasin 28m.
2439          RS      3    FLOW      -1
2440          RC   0.050   0.016   0.050    2840  0.0045
2441          RX      0     1.8      72   176.4   183.6     288   358.2     360
2442          RY      3       1     0.5       0       0     0.5       1       3
              *

2443          KK    28m   BASIN
2444          KM   Subbasin at NEC of Thomas Rd. & 40th St.
2445          BA   0.508
2446          LG   1.85    0.25    4.80    0.36      22
2447          UC   0.909   0.677
2448          UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2449          UA    100
              *

2450          KK  BD28kP RETRIEVE
2451          KM   Retrieve diverted pipe flow from D28kP.
2452          DR   D28kP
```

```
                *
2453            KK   P28kS   ROUTE
2454            KM    Route pipe flow from Indian School/40th St. to Thomas/40th St.
2455            RK    5300  0.0059   0.015            CIRC    4.50
                *

2456            KK  BD28kS RETRIEVE
2457            KM    Retrieve diverted surface flow from D28kS.
2458            DR   D28kS
                *

2459            KK   R28kS   ROUTE
2460            KM    Route surface flow south from Subbasin 28k to Subbasin 28m.
2461            RS       6    FLOW      -1
2462            RC   0.050   0.016   0.050    5280  0.0076
2463            RX       0       1      40      98     102     160     199     200
2464            RY       3       1     0.5       0       0     0.5       1       3
                *

2465            KK   C28kS COMBINE
2466            KM    Combine hydrographs R28kS and P28kS.
2467            HC       2    0.72
                *

2468            KK    C28m COMBINE
2469            KM    Combine hydrographs 28m, C28kS, and R24mW.
2470            HC       3    1.73
                *
1                                          HEC-1 INPUT                                                    PAGE 69

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2471            KK    D28m  DIVERT
2472            KM    Divert 211 cfs into pipe.
2473            DT   D28mP
2474            DI       0     100     211   10000
2475            DQ       0     100     211     211
                *

2476            KK   D28mW  DIVERT
2477            KM    Divert surface flow to south.
2478            DT   D28mS
2479            DI       0     100    1000   10000
2480            DQ       0      44     443    4427
                *

2481            KK   R28mW   ROUTE
2482            KM    Route surface flow west from Subbasin 28m to Subbasin 32m.
2483            RS       3    FLOW      -1
2484            RC   0.050   0.016   0.050    2640  0.0038
2485            RX       0     1.3      52   127.4   132.6     208   258.7     260
2486            RY       3       1     0.5       0       0     0.5       1       3
                *

2487            KK     32m   BASIN
2488            KM    Subbasin at NEC of Thomas Rd. & 36th St.
2489            BA   0.514
2490            LG    1.32    0.25    4.80    0.36      27
2491            UC   0.837   0.614
2492            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2493            UA     100
                *

2494            KK    S32m STORAGE
2495            KM    Online Local Retention Basin, 0.6 ac-ft.
2496            RS       1    STOR       0
2497            SV       0     0.2     0.6     1.2
2498            SE       0       2       4       6
2499            SS       4      50     2.7     1.5
                *

2500            KK  BD32kP RETRIEVE
2501            KM    Retrieve diverted pipe flow from D32kP.
2502            DR   D32kP
                *

2503            KK   P32kS   ROUTE
2504            KM    Route pipe flow from Indian School/36th St. to Thomas/36th St.
2505            RK    5400  0.0044   0.015            CIRC    4.00
                *
                                           HEC-1 INPUT                                                    PAGE 70

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
2506          KK  BD32kS RETRIEVE
2507          KM   Retrieve diverted surface flow from D32kS.
2508          DR   D32kS
              *

2509          KK   R32kS   ROUTE
2510          KM   Route surface flow south from Subbasin 32k to Subbasin 32m.
2511          RS       6    FLOW      -1
2512          RC   0.050   0.016   0.050    5280  0.0076
2513          RX       0    1.05      42   102.9   107.1     168  208.95     210
2514          RY       3       1     0.5       0       0     0.5       1       3
              *

2515          KK   C32kS COMBINE
2516          KM   Combine hydrographs R32kS and P32kS.
2517          HC       2    1.23
              *

2518          KK   C32m COMBINE
2519          KM   Combine hydrographs S32m, C32kS, and R28mW.
2520          HC       3    2.75
              *

2521          KK   D32m DIVERT
2522          KM   Divert 66 cfs into 54" pipe.
2523          DT   D32mP
2524          DI       0      66    1000   10000
2525          DQ       0      66      66      66
              *

2526          KK   D32mW  DIVERT
2527          KM   Divert surface flow to south.
2528          DT   D32mS
2529          DI       0     100    1000   10000
2530          DQ       0      43     430    4300
              *

2531          KK   R32mW   ROUTE
2532          KM   Route surface flow west from Subbasin 32m to Subbasin 36m.
2533          RS       2    FLOW      -1
2534          RC   0.050   0.016   0.050    2640  0.0023
2535          RX       0    1.35      54   132.3   137.7     216  268.65     270
2536          RY       3       1     0.5       0       0     0.5       1       3
              *

2537          KK    36m   BASIN
2538          KM   Subbasin at NEC of Thomas Rd. & 32nd St.
2539          BA   0.514
2540          LG    1.59    0.25    4.80    0.36      25
2541          UC   0.929   0.689
2542          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2543          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2544          KK  BD36kP RETRIEVE
2545          KM   Retrieve diverted pipe flow from D36kP.
2546          DR   D36kP
              *

2547          KK   P36kS   ROUTE
2548          KM   Route pipe flow from Indian School/32nd St. to Thomas/32nd St.
2549          RK    5300  0.0046   0.015            CIRC    3.50
              *

2550          KK  BD36kS RETRIEVE
2551          KM   Retrieve diverted surface flow from D36kS.
2552          DR   D36kS
              *

2553          KK   R36kS   ROUTE
2554          KM   Route surface flow south from Subbasin 36k to Subbasin 36m.
2555          RS       3    FLOW      -1
2556          RC   0.050   0.016   0.050    5280  0.0068
2557          RX       0     0.8      32    78.4    81.6     128   159.2     160
2558          RY       3       1     0.5       0       0     0.5       1       3
              *

2559          KK   C36kS COMBINE
2560          KM   Combine hydrographs R36kS and P36kS.
2561          HC       2    2.07
              *
```

```
2562          KK    C36m COMBINE
2563          KM    Combine hydrographs 36m, C36kS, and R32mW.
2564          HC       3    4.11
              *

2565          KK    D36m  DIVERT
2566          KM    Divert 114 cfs into pipe.
2567          DT   D36mP
2568          DI       0     100     114   10000
2569          DQ       0     100     114     114
              *

2570          KK   D36mW  DIVERT
2571          KM    Divert surface flow to south.
2572          DT   D36mS
2573          DI       0     100    1000   10000
2574          DQ       0      48     480    4800
              *

2575          KK   R36mW   ROUTE
2576          KM    Route surface flow west from Subbasin 36m to Subbasin 40m.
2577          RS       2    FLOW      -1
2578          RC   0.050   0.016   0.050    2640  0.0045
2579          RX       0     1.9      76   186.2   193.8     304   378.1     380
2580          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2581          KK     40m   BASIN
2582          KM    Subbasin at NEC of Thomas Rd. & 28th St.
2583          BA   0.511
2584          LG    0.85    0.25    4.80    0.36      29
2585          UC   0.826   0.607
2586          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2587          UA     100
              *

2588          KK  BD40kP RETRIEVE
2589          KM    Retrieve diverted pipe flow from D40kP.
2590          DR   D40kP
              *

2591          KK   P40kS   ROUTE
2592          KM    Route pipe flow from Indian School/28th St. to Thomas/28th St.
2593          RK    5400  0.0041   0.015            CIRC     3.0
              *

2594          KK  BD40kS RETRIEVE
2595          KM    Retrieve diverted surface flow from D40kS.
2596          DR   D40kS
              *

2597          KK   R40kS   ROUTE
2598          KM    Route surface flow south from Subbasin 40k to Subbasin 40m.
2599          RS       5    FLOW      -1
2600          RC   0.050   0.016   0.050    5280  0.0068
2601          RX       0     0.8      32    78.4    81.6     128   159.2     160
2602          RY       3       1     0.5       0       0     0.5       1       3
              *

2603          KK   C40kS COMBINE
2604          KM    Combine hydrographs R40kS and P40kS.
2605          HC       2    2.80
              *

2606          KK    C40m COMBINE
2607          KM    Combine hydrographs 40m, C40kS, and R36mW.
2608          HC       3    5.35
              *

2609          KK    D40m  DIVERT
2610          KM    Divert 66 cfs flow into pipe.
2611          DT   D40mP
2612          DI       0      66     500    1000
2613          DQ       0      66      66      66
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2614          KK   D40mW  DIVERT
```

```
2615          KM    Divert surface flow to south.
2616          DT   D40mS
2617          DI       0     100    1000   10000
2618          DQ       0      43     430    4300
              *

2619          KK   R40mW   ROUTE
2620          KM    Route surface flow west from Subbasin 40m to Subbasin 44m.
2621          RS       3    FLOW      -1
2622          RC   0.050   0.016   0.050    2640  0.0045
2623          RX       0     1.9      76   186.2   193.8     304   378.1     380
2624          RY       3       1     0.5       0       0     0.5       1       3
              *

2625          KK     44m   BASIN
2626          KM    Subbasin at NEC of Thomas Rd. & 24th St.
2627          BA   0.504
2628          LG    1.28    0.25    4.80    0.37      27
2629          UC   0.877   0.654
2630          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2631          UA     100
              *

2632          KK  BD44kP RETRIEVE
2633          KM    Retrieve diverted pipe flow from D44kP.
2634          DR   D44kP
              *

2635          KK   P44kS   ROUTE
2636          KM    Route pipe flow from Indian School/24th St. to Thomas/24th St.
2637          RK    5300  0.0033   0.015            CIRC    4.00
              *

2638          KK  BD44kS RETRIEVE
2639          KM    Retrieve diverted surface flow from D44kS.
2640          DR   D44kS
              *

2641          KK   R44kS   ROUTE
2642          KM    Route surface flow south from Subbasin 44k to Subbasin 44m.
2643          RS       3    FLOW      -1
2644          RC   0.050   0.016   0.050    5280  0.0064
2645          RX       0    0.75      30    73.5    76.5     120  149.25     150
2646          RY       3       1     0.5       0       0     0.5       1       3
              *

2647          KK   C44kS COMBINE
2648          KM    Combine hydrographsR44kS and P44kS.
2649          HC       2    3.93
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2650          KK    C44m COMBINE
2651          KM    Combine hydrographs 44m, C44kS, and R40mW.
2652          HC       3    6.98
              *

2653          KK    D44m  DIVERT
2654          KM    Divert 124 cfs into pipe.
2655          DT   D44mP
2656          DI       0     100     124   10000
2657          DQ       0     100     124     124
              *

2658          KK   D44mW  DIVERT
2659          KM    Divert surface flow to south.
2660          DT   D44mS
2661          DI       0     100    1000   10000
2662          DQ       0      42     424    4242
              *

2663          KK   R44mW   ROUTE
2664          KM    Route surface flow west from Subbasin 44m to Subbasin 48m.
2665          RS       2    FLOW      -1
2666          RC   0.050   0.016   0.050    2700  0.0023
2667          RX       0     2.1      84   205.8   214.2     336   417.9     420
2668          RY       3       1     0.5       0       0     0.5       1       3
              *

2669          KK     24o   BASIN
2670          KM   Subbasin at NEC of McDowell Rd. & 44th St.
2671          BA   0.504
2672          LG    1.13    0.25    4.80    0.37      30
```

```
2673          UC   0.903   0.675
2674          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2675          UA     100
              *

2676          KK  BD24mS RETRIEVE
2677          KM    Retrieve diverted surface flow from D24mS.
2678          DR   D24mS
              *

2679          KK   R24mS   ROUTE
2680          KM    Route surface flow south from Subbasin 24m to Subbasin 24o.
2681          RS       5    FLOW      -1
2682          RC   0.050   0.016   0.050    5280  0.0061
2683          RX       0    1.05      42   102.9   107.1     168  208.95     210
2684          RY       3       1     0.5       0       0     0.5       1       3
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2685          KK    C24o COMBINE
2686          KM    Combine hydrographs 24o and R24mS.
2687          HC       2    1.20
              *

2688          KK    D24o  DIVERT
2689          KM    Divert 48 cfs into pipe.
2690          DT   D24oP
2691          DI       0      48    1000   10000
2692          DQ       0      48      48      48
              *

2693          KK   D24oW  DIVERT
2694          KM    Divert surface flow to south.
2695          DT   D24oS
2696          DI       0     100    1000   10000
2697          DQ       0      38     378    3782
              *

2698          KK   R24oW   ROUTE
2699          KM    Route surface flow west from Subbasin 24o to Subbasin 28o.
2700          RS       2    FLOW      -1
2701          RC   0.050   0.016   0.050    2640  0.0053
2702          RX       0    1.55      62   151.9   158.1     248  308.45     310
2703          RY       3       1     0.5       0       0     0.5       1       3
              *

2704          KK     28o   BASIN
2705          KM   Subbasin at NEC of McDowell Rd. & 40th St.
2706          BA   0.500
2707          LG    1.64    0.25    4.80    0.36      23
2708          UC   0.968   0.733
2709          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2710          UA     100
              *

2711          KK  BD28mP RETRIEVE
2712          KM    Retrieve diverted pipe flow from D28mP.
2713          DR   D28mP
              *

2714          KK   P28mS   ROUTE
2715          KM    Route pipe flow from Thomas/40th St. to McDowell/40th St.
2716          RK    5280  0.0033   0.015            CIRC    6.00
              *

2717          KK  BD28mS RETRIEVE
2718          KM    Retrieve diverted surface flow from D28mS.
2719          DR   D28mS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2720          KK   R28mS   ROUTE
2721          KM    Route surface flow south from Subbasin 28m to Subbasin 28o.
2722          RS       5    FLOW      -1
2723          RC   0.050   0.016   0.050    5280  0.0061
2724          RX       0     0.8      32    78.4    81.6     128   159.2     160
2725          RY       3       1     0.5       0       0     0.5       1       3
              *

2726          KK   C28mS COMBINE
```

```
2727          KM    Combine hydrographsR28mS and P28mS.
2728          HC       2    1.73
              *

2729          KK    C28o COMBINE
2730          KM    Combine hydrographs 28o, C28mS, and R24oW.
2731          HC       3    2.73
              *

2732          KK    D28o  DIVERT
2733          KM    Divert 367 cfs into pipe.
2734          DT   D28oP
2735          DI       0     100     367   10000
2736          DQ       0     100     367     367
              *

2737          KK   D28oW  DIVERT
2738          KM    Divert surface flow to south.
2739          DT   D28oS
2740          DI       0     100    1000   10000
2741          DQ       0      42     419    4194
              *

2742          KK   R28oW   ROUTE
2743          KM    Route surface flow west from Subbasin 28o to Subbasin 32o.
2744          RS       3    FLOW      -1
2745          RC   0.050   0.016   0.050    2640  0.0038
2746          RX       0    1.85      74   181.3   188.7     296  368.15     370
2747          RY       3       1     0.5       0       0     0.5       1       3
              *

2748          KK     32o   BASIN
2749          KM    Subbasin at NEC of McDowell Rd. & 36th St.
2750          BA   0.500
2751          LG    1.19    0.25    4.80    0.37      26
2752          UC   0.891   0.669
2753          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2754          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2755          KK  BD32mS RETRIEVE
2756          KM    Retrieve diverted surface flow from D32mS.
2757          DR   D32mS
              *

2758          KK   R32mS   ROUTE
2759          KM    Route surface flow south from Subbasin 32m to Subbasin 32o.
2760          RS       3    FLOW      -1
2761          RC   0.050   0.016   0.050    5280  0.0061
2762          RX       0       1      40      98     102     160     199     200
2763          RY       3       1     0.5       0       0     0.5       1       3
              *

2764          KK  BD32mP RETRIEVE
2765          KM    Retrieve diverted pipe flow from D32mP.
2766          DR   D32mP
              *

2767          KK   P32mS  ROUTE
2768          KM    Route pipe flow from Thomas/36th St. to McDowell/36nd St.
2769          RK    5280  0.0060   0.015            CIRC     4.5
              *

2770          KK   C32mS COMBINE
2771          KM    Combine hydrographs P32mW and R32mS.
2772          HC       2    2.75
              *

2773          KK    C32o COMBINE
2774          KM    Combine hydrographs 32o, C32mS, and R28oW.
2775          HC       3    4.25
              *

2776          KK    D32o  DIVERT
2777          KM    Divert 160 cfs flow into 72" pipe (south).
2778          DT   D32oP
2779          DI       0     160    1000   10000
2780          DQ       0     160     160     160
              *

2781          KK   D32oW  DIVERT
2782          KM    Divert surface flow to south.
```

```
2783          DT   D32oS
2784          DI       0     100    1000   10000
2785          DQ       0      44     442    4415
              *

2786          KK   R32oW   ROUTE
2787          KM    Route surface flow west from Subbasin 32o to Subbasin 36o.
2788          RS       3    FLOW      -1
2789          RC   0.050   0.016   0.050    2640  0.0030
2790          RX       0     0.8      32    78.4    81.6     128   159.2     160
2791          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2792          KK     36o   BASIN
2793          KM    Subbasin at NEC of McDowell Rd. & 32nd St.
2794          BA   0.500
2795          LG    0.66    0.25    4.80    0.36      24
2796          UC   0.861   0.643
2797          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2798          UA     100
              *

2799          KK  BD36mP RETRIEVE
2800          KM    Retrieve diverted pipe flow from D36mP.
2801          DR   D36mP
              *

2802          KK   P36mS   ROUTE
2803          KM    Route pipe flow from Thomas/32nd St. to McDowell/32nd St.
2804          RK    5300  0.0045   0.015            CIRC    4.50
              *

2805          KK  BD36mS RETRIEVE
2806          KM    Retrieve diverted surface flow from D36mS.
2807          DR   D36mS
              *

2808          KK   R36mS   ROUTE
2809          KM    Route surface flow south from Subbasin 36m to Subbasin 36o.
2810          RS       4    FLOW      -1
2811          RC   0.050   0.016   0.050    5280  0.0057
2812          RX       0    1.25      50   122.5   127.5     200  248.75     250
2813          RY       3       1     0.5       0       0     0.5       1       3
              *

2814          KK   C36mS COMBINE
2815          KM    Combine hydrographs R36mS and P36mS.
2816          HC       2    4.11
              *

2817          KK    C36o COMBINE
2818          KM    Combine hydrographs 36o, C36mS, and R32oW.
2819          HC       3    6.12
              *

2820          KK    D36o  DIVERT
2821          KM    Divert 139 cfs into pipe.
2822          DT   D36oP
2823          DI       0     100     139   10000
2824          DQ       0     100     139     139
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2825          KK   D36oW  DIVERT
2826          KM    Divert surface flow to south.
2827          DT   D36oS
2828          DI       0     100    1000   10000
2829          DQ       0      43     430    4300
              *

2830          KK   R36oW   ROUTE
2831          KM    Route surface flow west from Subbasin 36o to Subbasin 40o.
2832          RS       3    FLOW      -1
2833          RC   0.050   0.016   0.050    2000  0.0022
2834          RX       0    1.65      66   161.7   168.3     264  328.35     330
2835          RY       3       1     0.5       0       0     0.5       1       3
              *

2836          KK   B40mP RETRIEVE
```

```
2837          KM    Retrieve diverted pipe flow from D40mP.
2838          DR   D40mP
              *

2839          KK   P40mS   ROUTE
2840          KM    Route pipe flow from Thomas/28th St. to McDowell/28th St.
2841          RK    3800  0.0041   0.015            CIRC    4.50
              *

2842          KK  BD40mS RETRIEVE
2843          KM    Retrieve diverted surface flow from D40mS.
2844          DR   D40mS
              *

2845          KK   R40mS   ROUTE
2846          KM    Route surface flow south from Subbasin 40m to Subbasin 40o.
2847          RS       5    FLOW      -1
2848          RC   0.050   0.016   0.050    4900  0.0053
2849          RX       0    1.55      62   151.9   158.1     248  308.45     310
2850          RY       3       1     0.5       0       0     0.5       1       3
              *

2851          KK   C40mS COMBINE
2852          KM    Combine hydrographs R40mS and P40mS.
2853          HC       2    5.35
              *

2854          KK     40o   BASIN
2855          KM    Subbasin at NEC of Grand Canal & 28th St.
2856          BA   0.465
2857          LG    1.13    0.24    4.80    0.36      23
2858          UC   0.868   0.596
2859          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2860          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2861          KK    C40o COMBINE
2862          KM    Combine hydrographs 40o, C40mS, and R36oW.
2863          HC       3    7.82
              *

2864          KK    D40o  DIVERT
2865          KM    Divert 70 cfs into pipe.
2866          DT   D40oP
2867          DI       0      70    1000   10000
2868          DQ       0      70      70      70
              *

2869          KK   D40oW  DIVERT
2870          KM    Divert surface flow to south.
2871          DT   D40oS
2872          DI       0      51     224     454     788    1511
2873          DQ       0       0      85     225     441     927
              *

2874          KK   R40oW   ROUTE
2875          KM    Route surface flow west from Subbasin 40o to Subbasin 44o.
2876          RS       6    FLOW      -1
2877          RC   0.050   0.016   0.050    3500  0.0012
2878          RX       0    1.35      54   132.3   137.7     216  268.65     270
2879          RY       3       1     0.5       0       0     0.5       1       3
              *

2880          KK     44o   BASIN
2881          KM    Subbasin at NEC of Grand Canal & 24th St.
2882          BA   0.229
2883          LG    1.41    0.24    4.80    0.36      21
2884          UC   0.783   0.552
2885          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2886          UA     100
              *

2887          KK  BD44mP RETRIEVE
2888          KM    Retrieve diverted pipe flow from D44mP.
2889          DR   D44mP
              *

2890          KK   P44mS   ROUTE
2891          KM    Route pipe flow from Thomas/24th St to McDowell/24th St.
2892          RK    1150  0.0030   0.015            CIRC     5.0
              *
```

```
2893          KK  BD44mS RETRIEVE
2894          KM   Retrieve diverted surface flow from D44mS.
2895          DR   D44mS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2896          KK   R44mS   ROUTE
2897          KM    Route surface flow south from Subbasin 44m to Subbasin 44o.
2898          RS       2    FLOW      -1
2899          RC   0.050   0.016   0.050    2400  0.0058
2900          RX       0     1.3      52   127.4   132.6     208   258.7     260
2901          RY       3       1     0.5       0       0     0.5       1       3
              *

2902          KK   C44mS COMBINE
2903          KM    Combine hydrographs R44mS and P44mS.
2904          HC       2    6.98
              *

2905          KK    C44o COMBINE
2906          KM    Combine hydrographs 44o, C44mS, and R40oW.
2907          HC       3    9.68
              *

2908          KK    D44o  DIVERT
2909          KM    Divert 124 cfs into pipe.
2910          DT   D44oP
2911          DI       0     100     124   10000
2912          DQ       0     100     124     124
              *

2913          KK   D44oW  DIVERT
2914          KM    Divert surface flow to south.
2915          DT   D44oS
2916          DI       0      27     198     433     769    1484
2917          DQ       0       0     119     299     561    1124
              *

2918          KK   R44oW   ROUTE
2919          KM    Route surface flow west from Subbasin 44o to Subbasin 48m.
2920          RS       8    FLOW      -1
2921          RC   0.050   0.016   0.050    4000  0.0006
2922          RX       0    1.05      42   102.9   107.1     168  208.95     210
2923          RY       3       1     0.5       0       0     0.5       1       3
              *

2924          KK   C44mW COMBINE
2925          KM    Combine hydrographs R44mW and R44oW.
2926          HC       2    9.68
              *

2927          KK     48m   BASIN
2928          KM    Subbasin at NEC of Grand Canal & 20th St.
2929          BA   0.481
2930          LG    1.04    0.24    4.80    0.36      26
2931          UC   0.858   0.577
2932          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2933          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2934          KK  BD48kS RETRIEVE
2935          KM   Retrieve diverted surface flow from D48kS.
2936          DR   D48kS
              *

2937          KK   R48kS   ROUTE
2938          KM    Route surface flow south from Subbasin 48k to Subbasin 48m.
2939          RS       3    FLOW      -1
2940          RC   0.050   0.016   0.050    4500  0.0048
2941          RX       0    1.05      42   102.9   107.1     168  208.95     210
2942          RY       3       1     0.5       0       0     0.5       1       3
              *

2943          KK    C48m COMBINE
2944          KM    Combine hydrographs 48m, C44mW, and R48kS.
2945          HC       3   11.19
              *

2946          KK  BD52kP RETRIEVE
```

```
2947          KM    Retrieve diverted pipe flow from D52kP.
2948          DR   D52kP
              *

2949          KK   P52kS   ROUTE
2950          KM    Route pipe flow from Indian School/SR51 to Grand Canal/SR51.
2951          RK    4500  0.0030   0.015            CIRC     6.0
              *

2952          KK  BD52kS RETRIEVE
2953          KM    Retrieve diverted surface flow from D52kS.
2954          DR   D52kS
              *

2955          KK   R52kS   ROUTE
2956          KM    Route surface flow south from Subbasin 52k to Subbasin 52m.
2957          RS       2    FLOW      -1
2958          RC   0.050   0.016   0.050    2600  0.0046
2959          RX       0    0.75      30    73.5    76.5     120  149.25     150
2960          RY       3       1     0.5       0       0     0.5       1       3
              *

2961          KK   C52kS COMBINE
2962          KM    Combine hydrographs R52kS and P52kS.
2963          HC       2    5.83
              *

2964          KK     52m   BASIN
2965          KM    Subbasin at NEC of Grand Canal & SR51.
2966          BA   0.177
2967          LG    0.54    0.23    4.80    0.35      16
2968          UC   0.643   0.393
2969          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2970          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2971          KK    C52m COMBINE
2972          KM    Combine hydrographs 52m and C52kS.
2973          HC       2    6.01
              *

2974          KK   CC52m COMBINE
2975          KM    Combine hydrographs C52m and C48m.
2976          HC       2   12.24
              *

2977          KK    D52m  DIVERT
2978          KM    Divert 364 cfs into pipe.
2979          KM    Pipe flow along 52m to south
2980          DT   D52mP
2981          DI       0     100     364   10000
2982          DQ       0     100     364     364
              *

2983          KK   D52mW  DIVERT
2984          KM   Total split flow of 48m and 52m, 10% to west
2985          DT   D52mS
2986          DI       0     100    1000   10000
2987          DQ       0      90     900    9000
              *

2988          KK   R52mW   ROUTE
2989          KM    Route surface flow west from Subbasin 52m to Subbasin 54m.
2990          RS       2    FLOW      -1
2991          RC   0.050   0.016   0.050    2650  0.0066
2992          RX       0     0.3      12    29.4    30.6      48    59.7      60
2993          RY       3       1     0.5       0       0     0.5       1       3
              *

2994          KK     54m   BASIN
2995          KM    Subbasin at NEC of Thomas Rd. & 16th St.
2996          BA   0.271
2997          LG    0.56    0.25    4.80    0.37      31
2998          UC   0.658   0.389
2999          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3000          UA     100
              *

3001          KK  BD54kP RETRIEVE
3002          KM    Retrieve diverted pipe flow from D54kP.
3003          DR   D54kP
              *
```

```
3004          KK   P54kS   ROUTE
3005          KM    Route pipe flow from Grand Canal/16th St. to Thomas/16th St.
3006          RK    5000  0.0030   0.015            CIRC     5.0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3007          KK  BD54kS RETRIEVE
3008          KM    Retrieve diverted surface flow from D54kS.
3009          DR   D54kS
              *

3010          KK   R54kS   ROUTE
3011          KM    Route surface flow south from Subbasin 54k to Subbasin 54m.
3012          RS       3    FLOW      -1
3013          RC   0.050   0.016   0.050    4500  0.0057
3014          RX       0     0.5      20      49      51      80    99.5     100
3015          RY       3       1     0.5       0       0     0.5       1       3
              *

3016          KK   C54kS COMBINE
3017          KM    Combine hydrographs R54kS and P54kS.
3018          HC       2    1.18
              *

3019          KK    C54m COMBINE
3020          KM    Combine hydrographs 54m, C54kS, and R52mW.
3021          HC       3    1.66
              *

3022          KK    D54m  DIVERT
3023          KM    Divert 124 cfs into pipe.
3024          DT   D54mP
3025          DI       0     100     124   10000
3026          DQ       0     100     124     124
              *

3027          KK   D54mW  DIVERT
3028          KM    Divert surface flow to south.
3029          DT   D54mS
3030          DI       0     100    1000   10000
3031          DQ       0      40     400    4000
              *

3032          KK   R54mW   ROUTE
3033          KM    Route surface flow west from Subbasin 54m to Subbasin 56m.
3034          RS       2    FLOW      -1
3035          RC   0.050   0.016   0.050    2640  0.0030
3036          RX       0    1.05      42   102.9   107.1     168  208.95     210
3037          RY       3       1     0.5       0       0     0.5       1       3
              *

3038          KK     56m   BASIN
3039          KM    Subbasin at NEC of Thomas Rd. & 12th St.
3040          BA   0.576
3041          LG    0.86    0.25    4.90    0.36      26
3042          UC   1.104   0.844
3043          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3044          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3045          KK  BD56kP RETRIEVE
3046          KM    Retrieve diverted pipe flow from D56kP.
3047          DR   D56kP
              *

3048          KK   P56kS   ROUTE
3049          KM    Route pipe flow from Grand Canal/12th St. to Thomas/12th St.
3050          RK    7350  0.0030   0.015            CIRC     7.0
              *

3051          KK  BD56kS RETRIEVE
3052          KM    Retrieve diverted surface flow from D56kS.
3053          DR   D56kS
              *

3054          KK   R56kS   ROUTE
3055          KM    Route surface flow south from Subbasin 56k to Subbasin 56m.
3056          RS       5    FLOW      -1
```

```
3057          RC   0.050   0.016   0.050    6070  0.0033
3058          RX       0     0.5      20      49      51      80    99.5     100
3059          RY       3       1     0.5       0       0     0.5       1       3
              *

3060          KK   C56kS COMBINE
3061          KM    Combine hydrographs R56kS and P56kS.
3062          HC       2    4.46
              *

3063          KK    C56m COMBINE
3064          KM    Combine hydrographs 56m, C56kS, and R54mW.
3065          HC       3    5.50
              *

3066          KK    D56m  DIVERT
3067          KM    Divert 433 cfs into pipe.
3068          DT   D56mP
3069          DI       0     100     433   10000
3070          DQ       0     100     433     433
              *

3071          KK   D56mW  DIVERT
3072          KM    Divert surface flow to south.
3073          DT   D56mS
3074          DI       0     100    1000   10000
3075          DQ       0      39     389    3892
              *

3076          KK   R56mW   ROUTE
3077          KM    Route surface flow west from Subbasin 56m to Subbasin 60m.
3078          RS       3    FLOW      -1
3079          RC   0.050   0.016   0.050    2640  0.0023
3080          RX       0     1.8      72   176.4   183.6     288   358.2     360
3081          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3082          KK     60m   BASIN
3083          KM    Subbasin at NEC of Thomas Rd. & 7th St.
3084          BA   0.500
3085          LG    0.84    0.25    5.80    0.25      16
3086          UC   1.041   0.795
3087          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3088          UA     100
              *

3089          KK  BD601P RETRIEVE
3090          KM    Retrieve diverted pipe flow from D601P.
3091          DR   D601P
              *

3092          KK   P601S   ROUTE
3093          KM    Route pipe flow from Indian School/7th St. to Thomas/7th St.
3094          RK    5300  0.0030   0.015            CIRC    4.50
              *

3095          KK  BD601S RETRIEVE
3096          KM    Retrieve diverted surface flow from D601S.
3097          DR   D601S
              *

3098          KK   R601S   ROUTE
3099          KM    Route surface flow south from Subbasin 601 to Subbasin 60m.
3100          RS       5    FLOW      -1
3101          RC   0.050   0.016   0.050    5280  0.0038
3102          RX       0     1.3      52   127.4   132.6     208   258.7     260
3103          RY       3       1     0.5       0       0     0.5       1       3
              *

3104          KK   C601S COMBINE
3105          KM    Combine hydrographs R601S and P601S.
3106          HC       2    4.69
              *

3107          KK    C60m COMBINE
3108          KM    Combine hydrographs 60m, C601S, and R56mW.
3109          HC       3    6.24
              *

3110          KK    D60m  DIVERT
3111          KM    Divert 124 cfs into pipe.
3112          DT   D60mP
```

```
3113          DI       0     100     124   10000
3114          DQ       0     100     124     124
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3115          KK   D60mW  DIVERT
3116          KM    Divert surface flow to south.
3117          DT   D60mS
3118          DI       0     100    1000   10000
3119          DQ       0      52     520    5199
              *

3120          KK   R60mW   ROUTE
3121          KM    Route surface flow west from Subbasin 60m to Subbasin 64m.
3122          RS       4    FLOW      -1
3123          RC   0.050   0.016   0.050    2640  0.0008
3124          RX       0    1.55      62   151.9   158.1     248  308.45     310
3125          RY       3       1     0.5       0       0     0.5       1       3
              *

3126          KK     64m   BASIN
3127          KM    Subbasin at NEC of Thomas Rd. & Central Ave.
3128          BA   0.500
3129          LG    0.29    0.15    8.40    0.09      49
3130          UC   0.969   0.734
3131          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3132          UA     100
              *

3133          KK  BD641P RETRIEVE
3134          KM    Retrieve diverted pipe flow from D641P.
3135          DR   D641P
              *

3136          KK   P641S   ROUTE
3137          KM    Route pipe flow from Indian School/Central Ave. to Thomas/Central Ave.
3138          RK    5280  0.0030   0.015            CIRC    7.00
              *

3139          KK  BD641S RETRIEVE
3140          KM    Retrieve diverted surface flow from D641S.
3141          DR   D641S
              *

3142          KK   R641S   ROUTE
3143          KM    Route surface flow south from Subbasin 641 to Subbasin 64m.
3144          RS       8    FLOW      -1
3145          RC   0.050   0.016   0.050    5280  0.0030
3146          RX       0    1.25      50   122.5   127.5     200  248.75     250
3147          RY       3       1     0.5       0       0     0.5       1       3
              *

3148          KK   C641S COMBINE
3149          KM    Combine hydrographs R641S and P641S.
3150          HC       2    6.96
              *
1                                   HEC-1 INPUT                                                    PAGE 88

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3151          KK     68m   BASIN
3152          KM    Subbasin at NEC of Thomas Rd. & 7th Ave.
3153          BA   0.550
3154          LG    0.14    0.15    8.80    0.08      57
3155          UC   0.985   0.719
3156          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3157          UA     100
              *

3158          KK  D68mP2  DIVERT
3159          KM    Divert flow into pipe.
3160          KM    pipe flow to east = 34 cfs
3161          DT    D68m
3162          DI       0      34     100    1000   10000
3163          DQ       0       0      66     966    9966
              *

3164          KK    C64m COMBINE
3165          KM    Combine hydrographs 64m, C641S, D68mP2, and R60mW.
3166          HC       4    9.55
              *
```

```
3167          KK    D64m  DIVERT
3168          KM    Divert 399 cfs into pipe.
3169          DT   D64mP
3170          DI       0      100      399   10000
3171          DQ       0      100      399     399
              *

3172          KK   D64mW  DIVERT
3173          KM    Divert surface flow to south.
3174          DT   D64mS
3175          DI       0      100     1000   10000
3176          DQ       0       62      618    6176
              *

3177          KK   R64mW   ROUTE
3178          KM    Route surface flow west from Subbasin 64m to Subbasin 68m.
3179          RS       5     FLOW       -1
3180          RC   0.050    0.016    0.050     2640  0.0010
3181          RX       0      1.3       52    127.4   132.6      208   258.7      260
3182          RY       3        1      0.5        0       0      0.5       1        3
              *

3183          KK   BD68m RETRIEVE
3184          KM    Retrieve diverted surface flow from D68m.
3185          DR    D68m
              *
1                                        HEC-1 INPUT                                          PAGE 89

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3186          KK    C68m COMBINE
3187          KM    Combine hydrographs C68lS, D68m, and R64mW.
3188          HC       3   16.15
              *

3189          KK   D68m2  DIVERT
3190          KM    Divert 144 cfs into pipe.
3191          DT   D68mP
3192          DI       0      100      144   10000
3193          DQ       0      100      144     144
              *

3194          KK   D68mW  DIVERT
3195          KM    Divert surface flow to south.
3196          DT   D68mS
3197          DI       0      100     1000   10000
3198          DQ       0       83      830    8300
              *

3199          KK   R68mW   ROUTE
3200          KM    Route surface flow west from Subbasin 68m to Subbasin 72m.
3201          RS       5     FLOW       -1
3202          RC   0.050    0.016    0.050     2640  0.0008
3203          RX       0     1.05       42    102.9   107.1      168  208.95      210
3204          RY       3        1      0.5        0       0      0.5       1        3
              *

3205          KK   CC72m COMBINE
3206          KM    Combine hydrographs C72m and R68mW.
3207          HC       2   17.12
              *

3208          KK    D72m  DIVERT
3209          KM    Divert 308 cfs into pipe.
3210          DT   D72mP
3211          DI       0      100      308   10000
3212          DQ       0      100      308     308
              *

3213          KK   R72mS   ROUTE
3214          KM    Route surface flow south from Subbasin 72m to Subbasin 72o.
3215          RS       6     FLOW       -1
3216          RC   0.050    0.016    0.050     6900  0.0020
3217          RX       0     1.25       50    122.5   127.5      200  248.75      250
3218          RY       3        1      0.5        0       0      0.5       1        3
              *

3219          KK  BD72mP RETRIEVE
3220          KM    Retrieve diverted pipe flow from D72mP.
3221          DR   D72mP
              *
1                                        HEC-1 INPUT                                          PAGE 90

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
3222          KK   P72mS   ROUTE
3223          KM    Route pipe flow from Thomas/15th Ave. to I-10/15th Ave.
3224          RK    6900  0.0030   0.015            CIRC     7.0
              *

3225          KK   C72mS COMBINE
3226          KM    Combine hydrographs R72mS and P72mS.
3227          HC       2   17.12
              *

3228          KK  BD24oS RETRIEVE
3229          KM    Retrieve diverted surface flow from D24oS.
3230          DR   D24oS
              *

3231          KK   R24oS   ROUTE
3232          KM    Route surface flow south from Subbasin 24o to Subbasin 28p.
3233          RS       3    FLOW      -1
3234          RC   0.050   0.016   0.050    3500  0.0081
3235          RX       0       1      40      98     102     160     199     200
3236          RY       3       1     0.5       0       0     0.5       1       3
              *

3237          KK  BD28oP RETRIEVE
3238          KM    Retrieve diverted pipe flow from D28oP.
3239          DR   D28oP
              *

3240          KK   P28oS   ROUTE
3241          KM    Route pipe flow from McDowell/40th St. to Loop 202/40th St.
3242          RK    2500  0.0044   0.015            CIRC    7.00
              *

3243          KK  BD28oS RETRIEVE
3244          KM    Retrieve diverted surface flow from D28oS.
3245          DR   D28oS
              *

3246          KK   R28oS   ROUTE
3247          KM    Route surface flow south from Subbasin 28o to Subbasin 28p.
3248          RS       2    FLOW      -1
3249          RC   0.050   0.016   0.050    2800  0.0112
3250          RX       0    1.25      50   122.5   127.5     200  248.75     250
3251          RY       3       1     0.5       0       0     0.5       1       3
              *

3252          KK   C28oS COMBINE
3253          KM    Combine hydrographs R28oS and P28oS.
3254          HC       2    2.73
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3255          KK    C28p COMBINE
3256          KM    Combine hydrographs C28oS and R24oS.
3257          HC       2    2.73
              *

3258          KK     28p   BASIN
3259          KM    Subbasin at NEC of Loop 202 & 40th St.
3260          BA   0.372
3261          LG    1.02    0.25    4.80    0.36      26
3262          UC   0.790   0.564
3263          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3264          UA     100
              *

3265          KK    S28p STORAGE
3266          KM    Online Local Retention Basin, 0.8 ac-ft.
3267          RS       1    STOR       0
3268          SV       0     0.2     0.8     1.5
3269          SE       0       2       4       6
3270          SS       4     100     2.7     1.5
              *

3271          KK   CC28p COMBINE
3272          KM    Combine hydrographs C28p and S28p.
3273          HC       2    3.11
              *

3274          KK    D28p  DIVERT
3275          KM    Divert flow into pipe.
3276          KM    Total pipe flow = 279 cfs (201 cfs to south, 68 cfs to east)
```

```
3277          DT   D28pP
3278          DI       0     100     279   10000
3279          DQ       0     100     279     279
              *

3280          KK   R28pW   ROUTE
3281          KM    Route surface flow west from Subbasin 28p to Subbasin 32p.
3282          RS       3    FLOW      -1
3283          RC   0.050   0.016   0.050    2640  0.0030
3284          RX       0     0.8      32    78.4    81.6     128   159.2     160
3285          RY       3       1     0.5       0       0     0.5       1       3
              *

3286          KK     32p   BASIN
3287          KM    Subbasin at NEC of Loop 202 & 36th St.
3288          BA   0.234
3289          LG    0.28    0.25    4.80    0.33       3
3290          UC   0.967   0.776
3291          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3292          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3293          KK  BD32oS RETRIEVE
3294          KM    Retrieve diverted surface flow from D32oS.
3295          DR   D32oS
              *

3296          KK   R32oS   ROUTE
3297          KM    Route surface flow south from Subbasin 32o to Subbasin 32p.
3298          RS       2    FLOW      -1
3299          RC   0.050   0.016   0.050    2540  0.0071
3300          RX       0     0.5      20      49      51      80    99.5     100
3301          RY       3       1     0.5       0       0     0.5       1       3
              *

3302          KK    C32p COMBINE
3303          KM    Combine hydrographs 32p and R32oS.
3304          HC       2    4.49
              *

3305          KK    S32p STORAGE
3306          KM    Online Regional Detention Basin, 57 ac-ft.
3307          RS       1    STOR       0
3308          SV       0     3.5    13.8    32.9    57.4    83.7
3309          SE       0       2       4       6       8      10
3310          SL       2   12.56    0.62     0.5
3311          SS       8      20     2.7     1.5
              *

3312          KK  BD32oP RETRIEVE
3313          KM    Retrieve diverted pipe flow from D32oP.
3314          DR   D32oP
              *

3315          KK   P32oS   ROUTE
3316          KM    Route pipe flow from McDowell/36th St. to SR202L/36th ST.
3317          RK    2500  0.0060   0.015            CIRC     6.0
              *

3318          KK   CC32p COMBINE
3319          KM    Combine hydrographs P32oS, R28pW and S32p.
3320          HC       3    4.86
              *

3321          KK   D32pW  DIVERT
3322          KM    Divert flow to pipe.
3323          DT   D32pS
3324          DI       0     100    1000   10000
3325          DQ       0      10     150     600
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3326          KK    D32p  DIVERT
3327          KM    Divert 379 cfs into pipe.
3328          DT   D32pP
3329          DI       0     100     379    1000   10000
3330          DQ       0     100     379     379     379
              *
```

```
3331          KK   R32pW   ROUTE
3332          KM    Route surface flow west from Subbasin 32p to Subbasin 36p.
3333          RS       3    FLOW      -1
3334          RC   0.050   0.016   0.050    2700  0.0022
3335          RX       0     0.5      20      49      51      80    99.5     100
3336          RY       3       1     0.5       0       0     0.5       1       3
              *

3337          KK  BD32pP RETRIEVE
3338          KM    Retrieve diverted pipe flow from D32pP.
3339          DR   D32pP
              *

3340          KK   P32pW   ROUTE
3341          KM    Route pipe flow from Loop 202/36th St. to Loop 202/32nd St.
3342          RK    2750  0.0047   0.015            CIRC     7.0
              *

3343          KK   C32pW COMBINE
3344          KM    Combine hydrographs R32pW and P32pW.
3345          HC       2    4.86
              *

3346          KK     28q   BASIN
3347          KM    Subbasin at NEC of Grand Canal & 40th St.
3348          BA   0.318
3349          LG    0.35    0.25    4.80    0.39      42
3350          UC   0.662   0.402
3351          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3352          UA     100
              *

3353          KK    S28q STORAGE
3354          KM    Online Local Retention Basin, 0.3 ac-ft.
3355          RS       1    STOR       0
3356          SV       0     0.3     0.8
3357          SE       0       2       4
3358          SS       2     100     2.7     1.5
              *

3359          KK  BD28pP RETRIEVE
3360          KM    Retrieve diverted pipe flow from D28pP.
3361          DR   D28pP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3362          KK  D28pP1  DIVERT
3363          KM    Divert flow into pipe.
3364          DT  D28pP2
3365          DI       0     279     300
3366          DQ       0      68      75
              *

3367          KK   P28pS   ROUTE
3368          KM    Route pipe flow from Loop 202/40th St. to Grand Canal/40th St.
3369          RK    2700  0.0030   0.015            CIRC    6.00
              *

3370          KK    C28q COMBINE
3371          KM    Combine hydrographs P28pS and S28q.
3372          HC       2    0.82
              *

3373          KK    D28q  DIVERT
3374          KM    Divert flow into pipe.
3375          KM    Total pipe flow = 340 cfs (32 cfs to east,308 cfs to south)
3376          DT   D28qP
3377          DI       0     100     340   10000
3378          DQ       0     100     340     340
              *

3379          KK   D28qW  DIVERT
3380          KM    Divert surface flow to south.
3381          DT   D28qS
3382          DI       0      14      72     203     550    1348
3383          DQ       0       0      41     144     430    1103
              *

3384          KK   R28qW   ROUTE
3385          KM    Route surface flow west from Subbasin 28q to Subbasin 32q.
3386          RS       9    FLOW      -1
3387          RC   0.050   0.016   0.050    3500  0.0003
3388          RX       0    0.75      30    73.5    76.5     120  149.25     150
```

```
3389          RY       3       1     0.5       0       0     0.5       1       3
              *

3390          KK     32q   BASIN
3391          KM    Subbasin at NEC of Grand Canal & 36th St.
3392          BA   0.175
3393          LG    0.25    0.21    4.80    0.32       6
3394          UC   0.855   0.660
3395          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3396          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3397          KK  BD32pS RETRIEVE
3398          KM    Retrieve diverted surface flow from D32pS.
3399          DR   D32pS
              *

3400          KK    C32q COMBINE
3401          KM    Combine hydrographs 32q, D32pS, and R28qW.
3402          HC       3    0.99
              *

3403          KK    S32q STORAGE
3404          KM    Online Regional Detention Basin, 92 ac-ft.
3405          RS       1    STOR       0
3406          SV       0      10      24      41      59      80      92     110
3407          SE       0       4       8      12      16      20      22      24
3408          SL     1.5   7.068    0.62     0.5
3409          SS      22     750     2.7     1.5
              *

3410          KK   D32qP  DIVERT
3411          KM    Divert surface flow to southwest.
3412          KM    Basin bleed-off pipe flow = 32 cfs
3413          DT    D32q
3414          DI       0      32     100    1000   10000
3415          DQ       0       0      68     968    9968
              *

3416          KK   P32qW   ROUTE
3417          KM    Route pipe flow from Subbasin 32q to Detention Basin in 36p.
3418          RK     800  0.0031   0.015            CIRC     3.0
              *

3419          KK  C32pqW COMBINE
3420          KM    Combine hydrographs C32pW and P32qW.
3421          HC       2    4.86
              *

3422          KK     36p   BASIN
3423          KM    Subbasin at NEC of Grand Canal and Loop 202
3424          BA   0.186
3425          LG    0.72    0.22    4.80    0.36      23
3426          UC   0.710   0.496
3427          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3428          UA     100
              *

3429          KK  BD36oS RETRIEVE
3430          KM    Retrieve diverted surface flow from D36oS.
3431          DR   D36oS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3432          KK   R36oS   ROUTE
3433          KM    Route surface flow south from Subbasin 36o to 36p.
3434          RS       3    FLOW      -1
3435          RC   0.050   0.016   0.050    2500  0.0063
3436          RX       0    0.75      30    73.5    76.5     120  149.25     150
3437          RY       3       1     0.5       0       0     0.5       1       3
              *

3438          KK    C36p COMBINE
3439          KM    Combine hydrographs 36p, C32pqW, and R36oS.
3440          HC       3    6.91
              *

3441          KK    E36p  DIVERT
3442          KM    Divert flow into detention basin 40p and 36q, (Bypass 613 cfs pipe flow).
```

```
3443          DT   DB36p
3444          DI       0     100     613    1000   10000
3445          DQ       0       0       0     387    9387
              *

3446          KK  BDB36pRETRIEVE
3447          KM   Retrieve diverted flow from DB36p for offline detention.
3448          DR   DB36p
              *

3449          KK    S36p STORAGE
3450          KM    Offline Detention basins within 40p and 36q receive flows from subbasin
3451          KM    36p. They are treated as one detention basin, 68 ac-ft.
3452          RS       1    STOR       0
3453          SV       0      10      22      37      55      68      84
3454          SE       0       4       8      12      16      18      20
3455          SL       2   12.56    0.62     0.5
3456          SS      18     200     2.7     1.5
              *

3457          KK  BD36oP RETRIEVE
3458          KM   Retrieve diverted pipe flow from D36oP.
3459          DR   D36oP
              *

3460          KK   P36oS   ROUTE
3461          KM   Route pipe flow from 32nd st/McDowell to subbasin 36p.
3462          RK     900  0.0038   0.015            CIRC    5.00
              *

3463          KK   CC36p COMBINE
3464          KM   Combine hydrographs E36p, P36oS, and S36p.
3465          HC       3    6.91
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3466          KK    D36p  DIVERT
3467          KM    Divert 613 cfs into pipe (139 cfs to south, 474 cfs to west).
3468          DT   D36pP
3469          DI       0     100     613    1000   10000
3470          DQ       0     100     613     613     613
              *

3471          KK   R36pW   ROUTE
3472          KM   Route surface flow west from Subbasin 36p to 40p.
3473          RS       2    FLOW      -1
3474          RC   0.050   0.016   0.050    2640  0.0024
3475          RX       0    0.75      30    73.5    76.5     120  149.25     150
3476          RY       3       1     0.5       0       0     0.5       1       3
              *

3477          KK  BD36pP RETRIEVE
3478          KM   Retrieve diverted pipe flow from D36pP.
3479          DR   D36pP
              *

3480          KK  D36pP1  DIVERT
3481          KM   Divert flow into pipe (south).
3482          DT  D36pP2
3483          DI       0     613     620
3484          DQ       0     139     140
              *

3485          KK   P36pW   ROUTE
3486          KM   Route pipe flow from offline detention basin to subbasin 40p.
3487          RK    2700  0.0036   0.015            CIRC     8.0
              *

3488          KK   C36pW COMBINE
3489          KM   Combine hydrographs R36pW and P36pW.
3490          HC       2    6.91
              *

3491          KK     40p   BASIN
3492          KM   Subbasin at NEC of Loop 202 and 28th St
3493          BA   0.222
3494          LG    1.05    0.13    7.00    0.14      22
3495          UC   0.739   0.485
3496          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3497          UA     100
              *

3498          KK  BD40oP RETRIEVE
```

```
3499          KM   Retrieve diverted pipe flow from D40oP.
3500          DR   D40oP
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3501          KK   P40oS   ROUTE
3502          KM    Route pipe flow from 28th st/Grand Canal to subbasin 40p.
3503          RK    2800  0.0041   0.015            CIRC    5.00
              *

3504          KK  BD40oS RETRIEVE
3505          KM    Retrieve diverted surface flow from D40oS.
3506          DR   D40oS
              *

3507          KK   R40oS   ROUTE
3508          KM    Route surface flow south from Subbasin 40o to 40p.
3509          RS       3    FLOW      -1
3510          RC   0.050   0.016   0.050    2500  0.0072
3511          RX       0     1.3      52   127.4   132.6     208   258.7     260
3512          RY       3       1     0.5       0       0     0.5       1       3
              *

3513          KK   C40oS COMBINE
3514          KM    Combine hydrographs R40oS and P40oS.
3515          HC       2    7.82
              *

3516          KK    C40p COMBINE
3517          KM    Combine hydrographs 40p and C40oS.
3518          HC       3    8.83
              *

3519          KK    D40p  DIVERT
3520          KM    Divert 785 cfs to 9'x9' box (west).
3521          DT   D40pP
3522          DI       0     100     785   10000
3523          DQ       0     100     785     785
              *

3524          KK   R40pW   ROUTE
3525          KM    Route surface flow west from Subbasin 40p to 44p.
3526          RS       4    FLOW      -1
3527          RC   0.050   0.016   0.050    2640  0.0023
3528          RX       0       1      40      98     102     160     199     200
3529          RY       3       1     0.5       0       0     0.5       1       3
              *

3530          KK  BD40pP RETRIEVE
3531          KM    Retrieve diverted pipe flow from D40pP.
3532          DR   D40pP
              *

3533          KK   P40pW   ROUTE
3534          KM    Route pipe flow from 28th st/I-10 to subbasin 44p.
3535          KM    9'x9' box equals to D =10' pipe
3536          RK    2640  0.0030   0.015            CIRC    10.0
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3537          KK   C40pW COMBINE
3538          KM    Combine hydrographs R40oW and P40pW.
3539          HC       2    8.83
              *

3540          KK     44p   BASIN
3541          KM    NEC corner of Loop 202 and 24th St
3542          BA   0.407
3543          LG    0.56    0.15    7.00    0.14      25
3544          UC   0.946   0.716
3545          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3546          UA     100
              *

3547          KK  BD44oP RETRIEVE
3548          KM    Retrieve diverted pipe flow from D44oP.
3549          DR   D44oP
              *

3550          KK   P44oS   ROUTE
```

```
3551          KM    Route pipe flow from 24th st/Grand Canal to subbasin 44p.
3552          RK    5650  0.0030   0.015            CIRC    5.00
              *

3553          KK  BD44oS RETRIEVE
3554          KM    Retrieve diverted surface flow from D44oS.
3555          DR   D44oS
              *

3556          KK   R44oS   ROUTE
3557          KM    Route surface flow south from Subbasin 44o to 44p.
3558          RS       3    FLOW      -1
3559          RC   0.050   0.016   0.050    4230  0.0033
3560          RX       0       1      40      98     102     160     199     200
3561          RY       3       1     0.5       0       0     0.5       1       3
              *

3562          KK   C44oS COMBINE
3563          KM    Combine hydrographs R44oS and P44oS.
3564          HC       2    9.68
              *

3565          KK    C44p COMBINE
3566          KM    Combine hydrographs C44oS, C40pW, and 44p.
3567          HC       3   11.10
              *

3568          KK    D44p  DIVERT
3569          KM    Divert 1344 cfs into pipe (124 cfs to south, 1220 cfs to west).
3570          DT   D44pP
3571          DI       0     100    1344   10000
3572          DQ       0     100    1344    1344
              *
1                                          HEC-1 INPUT                                                    PAGE100

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3573          KK   R44pW   ROUTE
3574          KM    Route surface flow west from Subbasin 44p to 48o.
3575          RS       3    FLOW      -1
3576          RC   0.050   0.016   0.050    2640  0.0015
3577          RX       0     0.8      32    78.4    81.6     128   159.2     160
3578          RY       3       1     0.5       0       0     0.5       1       3
              *

3579          KK  BD44pP RETRIEVE
3580          KM    Retrieve diverted pipe flow from D44pP.
3581          DR   D44pP
              *

3582          KK  D44pP1  DIVERT
3583          KM    Divert flow into pipe (south).
3584          DT  D44pP2
3585          DI       0    1344    1500
3586          DQ       0     124     138
              *

3587          KK   P44pW   ROUTE
3588          KM    Route pipe flow from 24th st/McDowell to subbasin 48o.
3589          KM    11'x10' box approximately equals to 12' pipe
3590          RK    2100  0.0030   0.015            CIRC    12.0
              *

3591          KK   C44pW COMBINE
3592          KM    Combine hydrographs R44pW and P44pW.
3593          HC       2   11.10
              *

3594          KK     48o   BASIN
3595          KM    Subbasin at NEC of Loop 202 and SR51
3596          BA   0.676
3597          LG    0.74    0.17    6.80    0.16      23
3598          UC   0.951   0.579
3599          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3600          UA     100
              *

3601          KK  BD52mS RETRIEVE
3602          KM    Retrieve diverted surface flow from D52mS.
3603          DR   D52mS
              *

3604          KK   R52mS   ROUTE
3605          KM    Route surface flow south from Subbasin 52m to 48o.
3606          RS       3    FLOW      -1
```

```
3607          RC   0.050   0.016   0.050    7000  0.0026
3608          RX       0     0.5      20      49      51      80    99.5     100
3609          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                          PAGE101

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3610          KK  BD52mP RETRIEVE
3611          KM    Retrieve diverted pipe flow from D52mP.
3612          DR   D52mP
              *

3613          KK   P52mS   ROUTE
3614          KM    Route pipe flow from subbasin 52m to subbasin 48o.
3615          RK    8600  0.0030   0.015            CIRC    7.50
              *

3616          KK   C52mS COMBINE
3617          KM    Combine hydrographs R52mS and P52mS.
3618          HC       2   12.24
              *

3619          KK    C48o COMBINE
3620          KM    Combine hydrographs C52mS, C44pW, and 48o.
3621          HC       3   14.34
              *

3622          KK    E48o  DIVERT
3623          KM    Divert 2573 cfs into ADOT East Tunnel 21' pipe at Moreland St.
3624          DT   DB48o
3625          DI       0     100    1000    2573   10000
3626          DQ       0       0       0       0    7427
              *

3627          KK  BDB48o RETRIEVE
3628          KM    Retrieve diverted flow from DB48o for detention.
3629          DR   DB48o
              *

3630          KK    S48o STORAGE
3631          KM    Excess flood water at ADOT East Tunnel going west
3632          KM    through McDowell Rd after ponding, online detention basin 35 ac-ft.
3633          RS       1    STOR       0
3634          SV       0       6      35      81
3635          SE       0       2       4       6
3636          SL     0.5    7.07    0.62     0.5
3637          SS       4      50     2.7     1.5
              *

3638          KK   CC48o COMBINE
3639          KM    Combine hydrographs E48o and S48o.
3640          HC       2   14.34
              *

3641          KK    D48o  DIVERT
3642          KM    Divert 2573 cfs into ADOT East tunnel 21' pipe at Moreland St.
3643          DT  D48oPT
3644          DI       0     100    2573    5000   10000
3645          DQ       0     100    2573    2573    2573
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3646          KK   R48oW   ROUTE
3647          KM    Route surface flow west from Subbasin 48o to 52o.
3648          KM    Excess flow routing to west through McDowell Rd.
3649          RS       3    FLOW      -1
3650          RC   0.050   0.016   0.050    2640  0.0015
3651          RX       0     0.5      20      49      51      80    99.5     100
3652          RY       3       1     0.5       0       0     0.5       1       3
              *

3653          KK     52o   BASIN
3654          KM    Subbasin at NEC of I-10 and 16th St
3655          BA   0.645
3656          LG    0.42    0.25    5.80    0.23      28
3657          UC   1.005   0.710
3658          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3659          UA     100
              *

3660          KK  BD54mP RETRIEVE
```

```
3661          KM    Retrieve diverted pipe flow from D54mP.
3662          DR   D54mP
              *

3663          KK   P54mS   ROUTE
3664          KM    Route pipe flow from 16th st/Thomas to subbasin 52o.
3665          RK    6350  0.0030   0.015            CIRC    5.00
              *

3666          KK  BD54mS RETRIEVE
3667          KM    Retrieve diverted surface flow from D54mS.
3668          DR   D54mS
              *

3669          KK   R54mS   ROUTE
3670          KM    Route surface flow south from Subbasin 54m to 52o.
3671          RS       6    FLOW      -1
3672          RC   0.050   0.016   0.050    6845  0.0029
3673          RX       0     0.5      20      49      51      80    99.5     100
3674          RY       3       1     0.5       0       0     0.5       1       3
              *

3675          KK   C54mS COMBINE
3676          KM    Combine hydrographs R54mS and P54mS.
3677          HC       2    1.66
              *

3678          KK    C52o COMBINE
3679          KM    Combine hydrographs C54mS, R48oW, and 52o.
3680          HC       3    2.30
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3681          KK    D52o  DIVERT
3682          KM    Divert 517 cfs into pipe to West Tunnel.
3683          KM    72" SD at 19th St and 72" SD at 16th St, Q = 211+306 = 517 cfs
3684          DT   D52oP
3685          DI       0     100     517   10000
3686          DQ       0     100     517     517
              *

3687          KK   R52oW   ROUTE
3688          KM    Route surface flow west from Subbasin 52o to 56o.
3689          RS       6    FLOW      -1
3690          RC   0.050   0.016   0.050    2640  0.0015
3691          RX       0     1.6      64   156.8   163.2     256   318.4     320
3692          RY       3       1     0.5       0       0     0.5       1       3
              *

3693          KK  BD52oP RETRIEVE
3694          KM    Retrieve diverted pipe flow from D52oP.
3695          DR   D52oP
              *

3696          KK   P52oW   ROUTE
3697          KM    Route pipe flow from 16th st/McDowell to subbasin 56o.
3698          RK    2700  0.0031   0.015            CIRC     7.5
              *

3699          KK   C52oW COMBINE
3700          KM    Combine hydrographs R52oW and P52oW.
3701          HC       2    2.30
              *

3702          KK     56o   BASIN
3703          KM    Subbasin at NEC of I-10 and 12th St
3704          BA   0.638
3705          LG    0.29    0.25    5.00    0.33      24
3706          UC   1.094   0.796
3707          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3708          UA     100
              *

3709          KK  BD56mP RETRIEVE
3710          KM    Retrieve diverted pipe flow from D56mP.
3711          DR   D56mP
              *

3712          KK   P56mS   ROUTE
3713          KM    Route pipe flow from 12th st/Thomas to subbasin 56o.
3714          RK    6450  0.0030   0.015            CIRC    8.00
              *
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3715          KK  BD56mS RETRIEVE
3716          KM    Retrieve diverted surface flow from D56mS.
3717          DR   D56mS
              *

3718          KK   R56mS   ROUTE
3719          KM    Route surface flow south from Subbasin 56m to 56o.
3720          RS       7   FLOW      -1
3721          RC   0.050   0.016   0.050    6770  0.0024
3722          RX       0     1.1      44   107.8   112.2     176   218.9     220
3723          RY       3       1     0.5       0       0     0.5       1       3
              *

3724          KK   C56mS COMBINE
3725          KM    Combine hydrographs R56mS and P56mS.
3726          HC       2    5.50
              *

3727          KK    C56o COMBINE
3728          KM    Combine hydrographs C56mS, C52oW, and 56o.
3729          HC       3    6.79
              *

3730          KK    D56o  DIVERT
3731          KM    Divert flow into West Tunnel (517 cfs from U/S).
3732          KM    10'x6' RCB at 12th St. Q = 433+517 = 950 cfs.
3733          DT   D56oP
3734          DI       0     100    1000   10000
3735          DQ       0     100     950     950
              *

3736          KK   R56oW   ROUTE
3737          KM    Route surface flow west from Subbasin 56o to 60o.
3738          RS       3    FLOW      -1
3739          RC   0.050   0.016   0.050    2640  0.0023
3740          RX       0     1.3      52   127.4   132.6     208   258.7     260
3741          RY       3       1     0.5       0       0     0.5       1       3
              *

3742          KK  BD56oP RETRIEVE
3743          KM    Retrieve diverted pipe flow from D56oP.
3744          DR   D56oP
              *

3745          KK   P56oW   ROUTE
3746          KM    Route pipe flow from 12th st/McDowell to subbasin 60o.
3747          KM    10'x10' box approximately equals to 11.5' pipe
3748          RK    2700  0.0030   0.015            CIRC    11.5
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3749          KK   C56oW COMBINE
3750          KM    Combine hydrographs R56oW and P56oW.
3751          HC       2    6.79
              *

3752          KK     60o   BASIN
3753          KM    Subbasin at NEC of I-10 and 7th St
3754          BA   0.640
3755          LG    1.22    0.25    5.30    0.31      32
3756          UC   1.117   0.817
3757          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3758          UA     100
              *

3759          KK  BD60mP RETRIEVE
3760          KM    Retrieve diverted pipe flow from D60mP.
3761          DR   D60mP
              *

3762          KK   P60mS   ROUTE
3763          KM    Route pipe flow from 7th st/Thomas to subbasin 60o.
3764          RK    6200  0.0030   0.015            CIRC    5.00
              *

3765          KK  BD60mS RETRIEVE
3766          KM    Retrieve diverted surface flow from D60mS.
3767          DR   D60mS
              *
```

```
3768          KK   R60mS   ROUTE
3769          KM    Route surface flow south from Subbasin 60m to 60o.
3770          RS       6    FLOW      -1
3771          RC   0.050   0.016   0.050    6720  0.0024
3772          RX       0     1.3      52   127.4   132.6     208   258.7     260
3773          RY       3       1     0.5       0       0     0.5       1       3
              *

3774          KK   C60mS COMBINE
3775          KM    Combine hydrographs R60mS and P60mS.
3776          HC       2    6.24
              *

3777          KK    C60o COMBINE
3778          KM    Combine hydrographs C60mS, C56oW, and 60o.
3779          HC       3    8.16
              *

3780          KK    D60o  DIVERT
3781          KM    Divert flow into West ADOT Tunnel (950 cfs U/S).
3782          KM    84" at 7th St and 60" at 10th St, Q = 435+376 = 811+950= 1761 cfs.
3783          DT  D60oPT
3784          DI       0     100    1761   10000
3785          DQ       0     100    1761    1761
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3786          KK   R60oW   ROUTE
3787          KM    Route surface flow west from Subbasin 60o to 64o.
3788          RS       6    FLOW      -1
3789          RC   0.050   0.016   0.050    2640  0.0015
3790          RX       0    1.05      42   102.9   107.1     168  208.95     210
3791          RY       3       1     0.5       0       0     0.5       1       3
              *

3792          KK     64o   BASIN
3793          KM    Subbasin at NEC of I-10 and Central
3794          BA   0.651
3795          LG    1.21    0.25    5.80    0.25      44
3796          UC   1.187   0.836
3797          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3798          UA     100
              *

3799          KK    S64o STORAGE
3800          KM    Online Detention Basin 1 ac-ft.
3801          RS       1    STOR       0
3802          SV       0    0.25       1       3
3803          SE       0       2       4       6
3804          SQ       0       8      11     600
              *

3805          KK  BD64mP RETRIEVE
3806          KM    Retrieve diverted pipe flow from D64mP.
3807          DR   D64mP
              *

3808          KK   P64mS   ROUTE
3809          KM    Route pipe flow from Central/Thomas to subbasin 64o.
3810          RK    6450  0.0025   0.015            CIRC    8.00
              *

3811          KK  BD64mS RETRIEVE
3812          KM    Retrieve diverted surface flow from D64mS.
3813          DR   D64mS
              *

3814          KK   R64mS   ROUTE
3815          KM    Route surface flow south from Subbasin 64m to 64o.
3816          RS       8    FLOW      -1
3817          RC   0.050   0.016   0.050    6860  0.0020
3818          RX       0    1.05      42   102.9   107.1     168  208.95     210
3819          RY       3       1     0.5       0       0     0.5       1       3
              *

3820          KK   C64mS COMBINE
3821          KM    Combine hydrographs R64mS and P64mS.
3822          HC       2    9.55
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
3823          KK    C64o COMBINE
3824          KM    Combine flows of C64mS, S64o,and R60oW
3825          HC       3   12.13
              *

3826          KK    D64o  DIVERT
3827          KM    Divert flow to ADOT West Tunnel (south).
3828          KM    96" SD at Central and 8'x7' RCB at 3rd Ave. Q =535+500=1035 cfs.
3829          DT  D64oPT
3830          DI       0     100    1035    2000   10000
3831          DQ       0     100    1035    1035    1035
              *

3832          KK   R64oW   ROUTE
3833          KM    Route surface flow west from Subbasin 64o to 68o.
3834          RS       2    FLOW      -1
3835          RC   0.050   0.016   0.050    2640  0.0015
3836          RX       0    1.05      42   102.9   107.1     168  208.95     210
3837          RY       3       1     0.5       0       0     0.5       1       3
              *

3838          KK     68o   BASIN
3839          KM    Subbasin at NEC of I-10 & 7th Ave.
3840          BA   0.688
3841          LG    0.21    0.17    6.80    0.16      25
3842          UC   1.124   0.763
3843          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3844          UA     100
              *

3845          KK    S68o STORAGE
3846          KM    Online Local Retention Basin, 13 ac-ft.
3847          RS       1    STOR       0
3848          SV       0       4      13      25
3849          SE       0       2       4       6
3850          SS       4     100     2.7     1.5
              *

3851          KK  BD68mP RETRIEVE
3852          KM    Retrieve diverted pipe flow from D68mP.
3853          DR   D68mP
              *

3854          KK   P68mS   ROUTE
3855          KM    Route pipe flow from Thomas/7th Ave. to I-10/7th Ave.
3856          RK    6800   0.002   0.015             CIRC     4.0
              *

3857          KK  BD68mS RETRIEVE
3858          KM    Retrieve diverted surface flow from D68mS.
3859          DR   D68mS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3860          KK   R68mS   ROUTE
3861          KM    Route surface flow south from Subbasin 68m to Subbasin 68o.
3862          RS       7    FLOW      -1
3863          RC   0.050   0.016   0.050    6780  0.0021
3864          RX       0     1.3      52   127.4   132.6     208   258.7     260
3865          RY       3       1     0.5       0       0     0.5       1       3
              *

3866          KK   C68mS COMBINE
3867          KM    Combine hydrographs R68mS and P68mS.
3868          HC       2   16.15
              *

3869          KK    C68o COMBINE
3870          KM    Combine hydrographs S68o, C68mS, and R64oW.
3871          HC       3   16.84
              *

3872          KK    D68o  DIVERT
3873          KM     Divert flow into ADOT west Tunnel storm water interceptor 14'
3874          KM     96" SD at 7th Ave and 96" SD at 3rd Ave.  Q = 433 + 510 = 943 cfs
3875          DT  D68oPT
3876          DI       0     100     943    2000   10000
3877          DQ       0     100     943     943     943
              *

3878          KK   R68oW   ROUTE
```

```
3879          KM    Route surface flow west from Subbasin 68o to 72o.
3880          RS       6    FLOW       -1
3881          RC   0.050   0.016   0.050    2640  0.0015
3882          RX       0    1.05      42   102.9   107.1     168  208.95     210
3883          RY       3       1     0.5       0       0     0.5       1       3
              *

3884          KK     72o   BASIN
3885          KM    Subbasin at NEC of I-10 & 15th Ave.
3886          BA   0.662
3887          LG    0.41    0.15    8.80    0.08      12
3888          UC   1.043   0.671
3889          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3890          UA     100
              *

3891          KK    C72o COMBINE
3892          KM    Combine hydrographs 72o, R68oW, and C72mS
3893          HC       3   17.78
              *

3894          KK    D72o  DIVERT
3895          KM    Diver 433 cfs into storm drain
3896          DT   D72oP
3897          DI       0     100     433    1000   10000
3898          DQ       0     100     433     433     433
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3899          KK    S72o STORAGE
3900          KM    ADOT West Tunnel Inlet Basin - Online Regional Detention Basin.
3901          RS       1    STOR       0
3902          SV       0     0.2       2       3     4.3     6.2     8.9      50
3903          SE       0       2       6       8      10      12      14      16
3904          SQ       0      50     250     380     530    1148    2156    3703
              *

3905          KK  D72oPT  DIVERT
3906          KM    Divert flow into West Tunnel
3907          DT   D72o1
3908          DI       0      50     250     380     530    1148    2156    3703
3909          DQ       0       0       0       0       0     458    1296    2763
              *

3910          KK  PT72oE   ROUTE
3911          KM    14' pipe to ADOT West Tunnel from I-10/15th Ave. to I-10/7th Ave.
3912          RK    2600  0.0030   0.015            CIRC    14.0
              *

3913          KK  B68oPT RETRIEVE
3914          KM    Retrieve diverted pipe flow from D68oPT.
3915          DR  D68oPT
              *

3916          KK  CPT68o COMBINE
3917          KM    Combine hydrographs PT72oE and D68oPT in the North Tunnel.
3918          HC       2   18.47
              *

3919          KK  PT68oE   ROUTE
3920          KM    Route pipe flow from I-10/7th Ave. to I-10/Central Ave.
3921          RK     850  0.0030   0.015            CIRC    14.0
              *

3922          KK  BD72o1 RETRIEVE
3923          KM    Retrieve diverted surface flow from D72o1.
3924          DR   D72o1
              *

3925          KK   D72oE  DIVERT
3926          KM    Divert flow overtopping West Tunnel Inlet Basin east and west,
3927          KM    East flow into I-10 depressed segment
3928          DT   D72oW
3929          DI       0     100     458    1296    2763
3930          DQ       0       0       0       0     382
              *

3931          KK   S-I10 STORAGE
3932          KM    Routing through I-10 depressed segment as a detention basin
3933          KM    Flood water within the depressed area is pumped into ADOT
3934          KM    West Tunnel.  Two Pump Stations with total flow = 350 cfs, 1252 ac-ft.
3935          RS       1    STOR       0
3936          SV       0      10      62     160     287     602     997    1252    1539
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3937          SE       0       1       4       8      12      20      28      32      36
3938          SQ       0      50     175     350     350     350     350     350    4820
              *

3939          KK  B64oPT RETRIEVE
3940          KM    Retrieve diverted pipe flow from D64oPT.
3941          DR  D64oPT
              *

3942          KK  B60oPT RETRIEVE
3943          KM    Retrieve diverted pipe flow from D60oPT.
3944          DR  D60oPT
              *

3945          KK  PT60oW   ROUTE
3946          KM    Route pipe flow from 7th st/I-10 to 3rd st/I-10, subbasin 64o.
3947          RK    2800  0.0030   0.015            CIRC    14.0
              *

3948          KK    C-WT COMBINE
3949          KM    Total flow into ADOT west tunnel at 3rd st/I-10,
3950          KM    Combine hydrographs S-I10, PT68oE, PT60oW, and D64oPT.
3951          HC       4   21.04
              *

3952          KK   PT64o   ROUTE
3953          KM    Route ADOT West Tunnel flow from 3rd st/I-10 through subbasin 64q.
3954          RK    3800   0.002   0.015            CIRC    21.0
              *

3955          KK  DN_64o  DIVERT
3956          KM    Divert all flow to West Tunnel ( to free up a HEC-1 hydrograph path).
3957          DT  DPT64o
3958          DI       0     100    1000   10000
3959          DQ       0     100    1000   10000
              *

3960          KK     36q   BASIN
3961          KM    Subbasin at NEC of Van Buren and 32nd St
3962          BA   0.267
3963          LG    0.26    0.15    9.70    0.06      25
3964          UC   0.696   0.517
3965          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3966          UA     100
              *

3967          KK   BD32q RETRIEVE
3968          KM    Retrieve diverted surface flow from D32q.
3969          DR    D32q
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3970          KK   R32qS   ROUTE
3971          KM    Route surface flow west from Subbasin 32q to 36q.
3972          RS       3    FLOW      -1
3973          RC   0.050   0.016   0.050    3600  0.0044
3974          RX       0     0.5      20      49      51      80    99.5     100
3975          RY       3       1     0.5       0       0     0.5       1       3
              *

3976          KK  B36pP2 RETRIEVE
3977          KM    Retrieve diverted pipe flow from D36pP2.
3978          DR  D36pP2
              *

3979          KK   P36pS   ROUTE
3980          KM    Route pipe flow from 32nd st/SR-202 to subbasin 36q.
3981          KM    Pipe size needs check
3982          RK    4500  0.0036   0.015            CIRC     5.0
              *

3983          KK    C36q COMBINE
3984          KM    Combine hydrographs D32pS, R28qW, and 36q.
3985          HC       3    1.56
              *

3986          KK    D36q  DIVERT
3987          KM    Divert 295 cfs into pipe (south).
3988          DT   D36qP
```

```
3989          DI       0     100     295   10000
3990          DQ       0     100     295     295
              *

3991          KK   D36qW  DIVERT
3992          KM    Divert 43% of surface flow south.
3993          DT   D36qS
3994          DI       0     100    1000   10000
3995          DQ       0      43     428    4276
              *

3996          KK   R36qW   ROUTE
3997          KM    Route surface flow west from Subbasin 36q to 40q.
3998          RS       5    FLOW      -1
3999          RC   0.050   0.016   0.050    2640  0.0023
4000          RX       0     1.3      52   127.4   132.6     208   258.7     260
4001          RY       3       1     0.5       0       0     0.5       1       3
              *

4002          KK     40q   BASIN
4003          KM    Subbasin at NEC of Van Buren and 28th St
4004          BA   0.349
4005          LG    0.31    0.15    9.70    0.06      29
4006          UC   0.762   0.550
4007          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4008          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4009          KK    C40q COMBINE
4010          KM    Combine hydrographs R36qW and 40q.
4011          HC       2    1.91
              *

4012          KK    D40q  DIVERT
4013          KM    Divert 32 cfs into pipe (west).
4014          DT   D40qP
4015          DI       0      32    1000   10000
4016          DQ       0      32      32      32
              *

4017          KK   D40qW  DIVERT
4018          KM    Divert 61% of surface flow to south.
4019          DT   D40qS
4020          DI       0     100    1000   10000
4021          DQ       0      61     608    6077
              *

4022          KK   R40qW   ROUTE
4023          KM    Route surface flow west from Subbasin 40q to 44q.
4024          RS       5    FLOW      -1
4025          RC   0.050   0.016   0.050    2640  0.0015
4026          RX       0    1.05      42   102.9   107.1     168  208.95     210
4027          RY       3       1     0.5       0       0     0.5       1       3
              *

4028          KK  BD40qP RETRIEVE
4029          KM    Retrieve diverted pipe flow from D40qP.
4030          DR   D40qP
              *

4031          KK   P40qW   ROUTE
4032          KM    Route pipe flow from 28th st/Van Buren to subbasin 44q.
4033          RK    2700  0.0031   0.015            CIRC     3.0
              *

4034          KK   C40qW COMBINE
4035          KM    Combine hydrographs R40qW and P40qW.
4036          HC       2    1.91
              *

4037          KK     44q   BASIN
4038          KM    Subbasin at NEC of Van Bure24th St
4039          BA   0.359
4040          LG    0.33    0.15    9.70    0.06      49
4041          UC   0.782   0.600
4042          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4043          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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4044          KK  B44pP2 RETRIEVE
4045          KM    Retrieve diverted pipe flow from D44pP2.
4046          DR  D44pP2
              *

4047          KK   P44pS   ROUTE
4048          KM    Route pipe flow from 24th st/McDowell to subbasin 44q.
4049          RK    3700  0.0030   0.015            CIRC    5.00
              *

4050          KK    C44q COMBINE
4051          KM    Combine hydrographs C40qW, 44q, and P44pS.
4052          HC       3    2.57
              *

4053          KK    D44q  DIVERT
4054          KM    Divert 201 cfs into pipe (south).
4055          DT   D44qP
4056          DI       0     100     201   10000
4057          DQ       0     100     201     201
              *

4058          KK   D44qW  DIVERT
4059          KM    Divert 62% of surface flow to south.
4060          DT   D44qS
4061          DI       0     100    1000   10000
4062          DQ       0      62     621    6211
              *

4063          KK   R44qW   ROUTE
4064          KM    Route surface flow west from Subbasin 44q to 48q.
4065          RS       3    FLOW      -1
4066          RC   0.050   0.016   0.050    2500  0.0018
4067          RX       0     0.8      32    78.4    81.6     128   159.2     160
4068          RY       3       1     0.5       0       0     0.5       1       3
              *

4069          KK     48q   BASIN
4070          KM    Subbasin at NEC of Van Buren and I-10
4071          BA   0.300
4072          LG    0.25    0.15    9.70    0.06      24
4073          UC   0.869   0.693
4074          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4075          UA     100
              *

4076          KK    C48q COMBINE
4077          KM    Combine hydrographs R44qW and 48q.
4078          HC       2    2.87
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4079          KK   DB48q  DIVERT
4080          KM    Divert flow into East ADOT Tunnel.
4081          KM    78" SD at Pierce St and 96" SD at Taylor St. Q = 245+368=613 cfs.
4082          DT  D48qPT
4083          DI       0     100     613    1000   10000
4084          DQ       0     100     613     613     613
              *

4085          KK    S46q STORAGE
4086          KM    Online detention basin, 5 ac-ft.
4087          RS       1    STOR       0
4088          SV       0       2       4     5.2       8
4089          SE       0       2       4       5       7
4090          SQ       0      30      43      48     438
              *

4091          KK   D48qW  DIVERT
4092          KM    Divert 59% of flow to south.
4093          DT   D48qS
4094          DI       0     100    1000   10000
4095          DQ       0      59     590    5900
              *

4096          KK   R48qW   ROUTE
4097          KM    Route surface flow west from Subbasin 48q to 52q.
4098          RS       2    FLOW      -1
4099          RC   0.050   0.016   0.050    3050  0.0020
4100          RX       0     0.8      32    78.4    81.6     128   159.2     160
4101          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
4102          KK     52q   BASIN
4103          KM    Subbasin at NEC of Van Buren and 16th St
4104          BA   0.394
4105          LG    0.43     0.15     8.80     0.08       35
4106          UC   0.962    0.730
4107          UA       0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
4108          UA     100
              *

4109          KK    C52q COMBINE
4110          KM    Combine hydrographs D48qW and 52q.
4111          HC       2     0.39
              *

4112          KK    D52q  DIVERT
4113          KM    Divert 191 cfs into pipe (south).
4114          DT   D52qP
4115          DI       0      100      191    10000
4116          DQ       0      100      191      191
              *
1                                          HEC-1 INPUT                                                PAGE115

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4117          KK   D52qW  DIVERT
4118          KM    Divert 51% of surface flow to south.
4119          DT   D52qS
4120          DI       0      100     1000    10000
4121          DQ       0       51      510     5100
              *

4122          KK   R52qW   ROUTE
4123          KM    Route surface flow west from Subbasin 52q to 56q.
4124          RS       7     FLOW       -1
4125          RC   0.050    0.016    0.050     2640   0.0015
4126          RX       0      1.6       64    156.8    163.2      256    318.4      320
4127          RY       3        1      0.5        0        0      0.5        1        3
              *

4128          KK     56q   BASIN
4129          KM    Subbasin at NEC of Van Buren and 12th St
4130          BA   0.354
4131          LG    0.24     0.25     6.00     0.21       22
4132          UC   0.940    0.659
4133          UA       0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
4134          UA     100
              *

4135          KK    C56q COMBINE
4136          KM    Combine hydrographs R52qW and 56q.
4137          HC       2     0.75
              *

4138          KK    D56q  DIVERT
4139          KM    Divert 68 cfs into pipe (south).
4140          DT   D56qP
4141          DI       0       68     1000    10000
4142          DQ       0       68       68       68
              *

4143          KK   D56qW  DIVERT
4144          KM    Divert 33% of surface flow to south.
4145          DT   D56qS
4146          DI       0      100     1000    10000
4147          DQ       0       33      330     3300
              *

4148          KK   R56qW   ROUTE
4149          KM    Route surface flow west from Subbasin 56q to 60q.
4150          RS       5     FLOW       -1
4151          RC   0.050    0.016    0.050     2640   0.0015
4152          RX       0      2.1       84    205.8    214.2      336    417.9      420
4153          RY       3        1      0.5        0        0      0.5        1        3
              *
1                                          HEC-1 INPUT                                                PAGE116

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4154          KK     60q   BASIN
4155          KM    Subbasin at NEC of Van Buren and 7th St
4156          BA   0.353
4157          LG    0.24     0.25     5.00     0.33       23
4158          UC   0.904    0.531
```

```
4159          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4160          UA     100
              *

4161          KK    C60q COMBINE
4162          KM    Combine hydrographs R56qW and 60q.
4163          HC       2    1.10
              *

4164          KK    D60q  DIVERT
4165          KM    Divert 281 cfs into pipe (south).
4166          DT   D60qP
4167          DI       0     100     281   10000
4168          DQ       0     100     281     281
              *

4169          KK   D60qW  DIVERT
4170          KM    Divert 28% of surface flow to south.
4171          DT   D60qS
4172          DI       0     100    1000   10000
4173          DQ       0      28     280    2800
              *

4174          KK   R60qW   ROUTE
4175          KM    Route surface flow west from Subbasin 60q to 64q.
4176          RS       6    FLOW      -1
4177          RC   0.050   0.016   0.050    2640  0.0015
4178          RX       0    1.55      62   151.9   158.1     248  308.45     310
4179          RY       3       1     0.5       0       0     0.5       1       3
              *

4180          KK     64q   BASIN
4181          KM    Subbasin at NEC of Van Buren and Central
4182          BA   0.405
4183          LG    0.17    0.17    6.80    0.17      42
4184          UC   0.922   0.493
4185          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4186          UA     100
              *

4187          KK    C64q COMBINE
4188          KM    Combine flows of 64q, R60qW, and DN_64o.
4189          HC       3    1.51
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4190          KK    D64q  DIVERT
4191          KM    Divert 0.0 cfs into West Tunnel.
4192          KM    Assuming the storm drain is not connected to West Tunnel.
4193          DT  D64qPT
4194          DI       0     100    1000   10000
4195          DQ       0       0       0       0
              *

4196          KK   D64q1  DIVERT
4197          KM    Divert 68 cfs into storm drain to west).
4198          DT   D64qP
4199          DI       0      68    1000   10000
4200          DQ       0      68      68      68
              *

4201          KK   D64qW  DIVERT
4202          KM    Divert 33% of surface flow to south.
4203          DT   D64qS
4204          DI       0     100    1000   10000
4205          DQ       0      33     330    3300
              *

4206          KK   R64qW   ROUTE
4207          KM    Route surface flow west from Subbasin 64q to 68q.
4208          RS       4    FLOW      -1
4209          RC   0.050   0.016   0.050    2300  0.0009
4210          RX       0    1.35      54   132.3   137.7     216  268.65     270
4211          RY       3       1     0.5       0       0     0.5       1       3
              *

4212          KK  BD64qP RETRIEVE
4213          KM    Retrieve diverted pipe flow from D64qP.
4214          DR   D64qP
              *

4215          KK   P64qW   ROUTE
4216          KM    Route pipe flow from Central/Van Buren to subbasin 68q.
```

```
4217          RK    2650  0.0030   0.015            CIRC     4.0
              *

4218          KK   C64qW COMBINE
4219          KM    Combine hydrographs R64qW and P64qW.
4220          HC       2    1.51
              *

4221          KK     68q   BASIN
4222          KM    Subbasin at NEC of Van Buren and 7th Ave
4223          BA   0.295
4224          LG    0.18    0.23    6.20    0.22      36
4225          UC   0.856   0.485
4226          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4227          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE118

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4228          KK    C68q COMBINE
4229          KM    Combine hydrographs C64qW and 68q.
4230          HC       2    1.80
              *

4231          KK    D68q  DIVERT
4232          KM    Divert 68 cfs into pipe (west).
4233          DT   D68qP
4234          DI       0      68    1000   10000
4235          DQ       0      68      68      68
              *

4236          KK   D68qW  DIVERT
4237          KM    Divert 33% of surface flow to south.
4238          DT   D68qS
4239          DI       0     100    1000   10000
4240          DQ       0      33     330    3300
              *

4241          KK   R68qW   ROUTE
4242          KM    Route surface flow west from Subbasin 68q to 72q.
4243          RS       3    FLOW      -1
4244          RC   0.050   0.016   0.050    2640  0.0015
4245          RX       0    1.05      42   102.9   107.1     168  208.95     210
4246          RY       3       1     0.5       0       0     0.5       1       3
              *

4247          KK  BD68qP RETRIEVE
4248          KM    Retrieve diverted pipe flow from D68qP.
4249          DR   D68qP
              *

4250          KK   P68qW   ROUTE
4251          KM    Route pipe flow from 7th ave/Van Buren to subbasin 72q.
4252          RK    3500  0.0030   0.015            CIRC     4.0
              *

4253          KK   C68qW COMBINE
4254          KM    Combine hydrographs R68qW and P68qW.
4255          HC       2    1.80
              *

4256          KK     72q   BASIN
4257          KM    Subbasin at NEC of Van Buren and 15th Ave
4258          BA   0.329
4259          LG    0.19    0.15    8.40    0.09      29
4260          UC   0.925   0.540
4261          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4262          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE119

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4263          KK   B72oP RETRIEVE
4264          KM    Retrieve diverted pipe flow from D72oP.
4265          DR   D72oP
              *

4266          KK   P72oS   ROUTE
4267          KM    Route pipe flow from 15th ave/THomas to subbasin 72q.
4268          RK    3700  0.0030   0.015            CIRC    8.00
              *
```

```
4269          KK    C72q COMBINE
4270          KM    Combine hydrographs C68qW, 72q, and P72oS.
4271          HC       3    3.13
              *

4272          KK    D72q  DIVERT
4273          KM    Divert 662 cfs into two pipes (229 cfs for east, 433 for west).
4274          DT   D72qP
4275          DI       0     100     662   10000
4276          DQ       0     100     662     662
              *

4277          KK   D72qW  DIVERT
4278          KM    Divert 33% of surface flow to south.
4279          DT   D72qS
4280          DI       0     100    1000   10000
4281          DQ       0      33     330    3300
              *

4282          KK   R72qW   ROUTE
4283          KM    Route surface flow west from Subbasin 72q to 76q.
4284          RS       4    FLOW      -1
4285          RC   0.050   0.016   0.050    3000  0.0015
4286          RX       0    1.85      74   181.3   188.7     296  368.15     370
4287          RY       3       1     0.5       0       0     0.5       1       3
              *

4288          KK     80o   BASIN
4289          KM    Subbasin at NEC of Mcdowell and 19th Ave
4290          BA   0.542
4291          LG    0.46    0.15    9.70    0.06      33
4292          UC   0.710   0.382
4293          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4294          UA     100
              *

4295          KK  BD84mP RETRIEVE
4296          KM    Retrieve diverted pipe flow from D84mP.
4297          DR   D84mP
              *
1                                        HEC-1 INPUT                                          PAGE120

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4298          KK   P84mS   ROUTE
4299          KM    Route pipe flow from I-17/THomas to subbasin 80o.
4300          RK    1800  0.0030   0.015            CIRC    6.50
              *

4301          KK  BD84mS RETRIEVE
4302          KM    Retrieve diverted surface flow from D84mS.
4303          DR   D84mS
              *

4304          KK   R84mS   ROUTE
4305          KM    Route surface flow south from Subbasin 84m to 80o.
4306          RS       3    FLOW      -1
4307          RC   0.050   0.016   0.050    6000   0.004
4308          RX       0    0.75      30    73.5    76.5     120  149.25     150
4309          RY       3       1     0.5       0       0     0.5       1       3
              *

4310          KK   C84mS COMBINE
4311          KM    Combine hydrographs R84mS and P84mS.
4312          HC       2    5.49
              *

4313          KK  BD80mS RETRIEVE
4314          KM    Retrieve diverted surface flow from D80mS.
4315          DR   D80mS
              *

4316          KK   R80mS   ROUTE
4317          KM    Route surface flow south from Subbasin 80m to 80o.
4318          RS       2    FLOW      -1
4319          RC   0.050   0.016   0.050    3500  0.0065
4320          RX       0     0.5      20      49      51      80    99.5     100
4321          RY       3       1     0.5       0       0     0.5       1       3
              *

4322          KK    C80o COMBINE
4323          KM    Combine hydrographs R80mS, C84mS, and 80o.
4324          HC       3    6.58
              *
```

```
4325          KK    E80o  DIVERT
4326          KM    By-pass 249 cfs and the remaining flow diverted into offline detention.
4327          DT   DB80o
4328          DI       0      100      249     1000    10000
4329          DQ       0        0        0      751     9751
              *

4330          KK  BDB80oRETRIEVE
4331          KM    Retrieve diverted flow from DB80 for offline detention.
4332          DR   DB80o
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4333          KK    S80o STORAGE
4334          KM    Offline Regional Detention Basin, 18 ac-ft.
4335          RS       1    STOR       0
4336          SV       0     2.7      6.2     10.1     14.3     17.7     24.3
4337          SE       0       2        4        6        8      9.5       12
4338          SQ       0      15       26       34       55      120     1400
              *

4339          KK   CC80o COMBINE
4340          KM    Combine hydrographs S80o and E80o.
4341          HC       2    6.58
              *

4342          KK    D80o  DIVERT
4343          KM    Divert 249 cfs into pipe (south).
4344          DT   D80oP
4345          DI       0      100      249    10000
4346          DQ       0      100      249      249
              *

4347          KK   R80oS   ROUTE
4348          KM    Route surface flow south from Subbasin 80o to 80p.
4349          RS       3    FLOW      -1
4350          RC   0.050   0.016    0.050     4000   0.0037
4351          RX       0     1.5       60      147      153      240   298.5      300
4352          RY       3       1      0.5        0        0      0.5       1        3
              *

4353          KK     76o   BASIN
4354          KM    Subbasin at NEC of I-10 and 19th Ave
4355          BA   0.673
4356          LG    0.17    0.15     8.80     0.08       26
4357          UC   1.006   0.680
4358          UA       0     5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
4359          UA     100
              *

4360          KK   BD76m RETRIEVE
4361          KM    Retrieve diverted surface flow from D76m.
4362          DR    D76m
              *

4363          KK   R76mS   ROUTE
4364          KM    Route surface flow south from Subbasin 76m to 76o.
4365          RS       3    FLOW      -1
4366          RC   0.050   0.016    0.050     6900   0.0023
4367          RX       0    0.75       30     73.5     76.5      120  149.25      150
4368          RY       3       1      0.5        0        0      0.5       1        3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4369          KK  B76mP2 RETRIEVE
4370          KM    Retrieve diverted pipe flow from D76mP2.
4371          DR  D76mP2
              *

4372          KK   P76mS   ROUTE
4373          KM    Route pipe flow from 19th ave/THomas to subbasin 76o.
4374          RK    7000  0.0030   0.015            CIRC    5.50
              *

4375          KK   C76mS COMBINE
4376          KM    Combine hydrographs R76mS and P76mS.
4377          HC       2    6.71
              *

4378          KK  BD72oW RETRIEVE
```

```
4379          KM    Retrieve diverted surface flow from D72oW.
4380          DR   D72oW
              *

4381          KK   R72oW   ROUTE
4382          KM    Route surface flow west from Subbasin 72o to 76o.
4383          RS       2    FLOW      -1
4384          RC   0.050   0.016   0.050    2800  0.0007
4385          RX       0     0.8      32    78.4    81.6     128   159.2     160
4386          RY       3       1     0.5       0       0     0.5       1       3
              *

4387          KK    C76o COMBINE
4388          KM    COmbine flows of 76o, C76mS, R80oS, and R72oW
4389          HC       4    7.92
              *

4390          KK   D76oP  DIVERT
4391          KM    Divert 229 cfs into pipe (south).
4392          DT    D76o
4393          DI       0     100     229   10000
4394          DQ       0       0       0    9771
              *

4395          KK   P76oS   ROUTE
4396          KM    Route pipe flow from 19th ave/THomas to subbasin 76q.
4397          RK    4000  0.0031   0.015            CIRC    6.25
              *

4398          KK   BD76o RETRIEVE
4399          KM    Retrieve diverted surface flow from D76o.
4400          DR    D76o
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4401          KK   D76oS  DIVERT
4402          KM    Divert 10% of surface flow to west.
4403          DT   D76oW
4404          DI       0     100    1000   10000
4405          DQ       0      10     100    1000
              *

4406          KK   R76oS   ROUTE
4407          KM    Route surface flow south from Subbasin 76o to 76q.
4408          RS       2    FLOW      -1
4409          RC   0.050   0.016   0.050    4000  0.0022
4410          RX       0    1.05      42   102.9   107.1     168  208.95     210
4411          RY       3       1     0.5       0       0     0.5       1       3
              *

4412          KK   C76oS COMBINE
4413          KM    Combine hydrographs R76oS and P76oS.
4414          HC       2    7.92
              *

4415          KK     76q   BASIN
4416          KM    Subbasin at NEC of Van Buren and UPRR
4417          BA   0.396
4418          LG    0.19    0.13   10.10    0.05      39
4419          UC   0.786   0.426
4420          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4421          UA     100
              *

4422          KK    C76q COMBINE
4423          KM    Combine hydrographs 76q, R72qW, and C76oS.
4424          HC       3   11.45
              *

4425          KK    D76q  DIVERT
4426          KM    Divert 229 cfs into pipe (south).
4427          DT   D76qP
4428          DI       0     100     229   10000
4429          DQ       0     100     229     229
              *

4430          KK   D76qW  DIVERT
4431          KM    Divert 52% of surface flow to south.
4432          DT   D76qS
4433          DI       0     100    1000   10000
4434          DQ       0      52     520    5200
              *
```

```
4435          KK   R76qW   ROUTE
4436          KM    Route surface flow west from Subbasin 76q to 80q.
4437          RS       2    FLOW      -1
4438          RC   0.050   0.016   0.050    2300  0.0009
4439          RX       0     0.8      32    78.4    81.6     128   159.2     160
4440          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE124

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4441          KK     80p   BASIN
4442          KM    Subbasin at NEC of I-10 and I-17
4443          BA   0.397
4444          LG    0.14    0.15    8.00    0.11      55
4445          UC   0.683   0.424
4446          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4447          UA     100
              *

4448          KK  BD76oW RETRIEVE
4449          KM    Retrieve diverted surface flow from D76oW.
4450          DR   D76oW
              *

4451          KK   R76oW   ROUTE
4452          KM    Route surface flow west from Subbasin 76o to 80p.
4453          RS       2    FLOW      -1
4454          RC   0.050   0.016   0.050    2200  0.0036
4455          RX       0     1.8      72   176.4   183.6     288   358.2     360
4456          RY       3       1     0.5       0       0     0.5       1       3
              *

4457          KK    C80p COMBINE
4458          KM    Combine flows of 80P and R76oW
4459          HC       2    8.32
              *

4460          KK    S80p STORAGE
4461          KM    Online Regional Detention Basin, 6 ac-ft.
4462          RS       1    STOR       0
4463          SV       0     1.9     3.8     5.7     7.8      10
4464          SE       0       2       4       6       8      10
4465          SQ       0       2       3       4     400    1100
              *

4466          KK  BD80oP RETRIEVE
4467          KM    Retrieve diverted pipe flow from D80oP.
4468          DR   D80oP
              *

4469          KK   P80oS   ROUTE
4470          KM    Route pipe flow from subbasin 80o to subbasin 80p along I-17.
4471          RK    5900  0.0030   0.015            CIRC    6.50
              *

4472          KK   CC80p COMBINE
4473          KM    Combine hydrographs P80oS and S80p.
4474          HC       2    8.32
              *
1                                          HEC-1 INPUT                                                    PAGE125

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4475          KK    D80p  DIVERT
4476          KM    Divert 249 cfs into pipe (south).
4477          DT   D80pP
4478          DI       0     100     249   10000
4479          DQ       0     100     249     249
              *

4480          KK   R80pS   ROUTE
4481          KM    Route surface flow south from Subbasin 80p to 80q.
4482          RS       8    FLOW      -1
4483          RC   0.050   0.016   0.050    6200  0.0019
4484          RX       0     1.3      52   127.4   132.6     208   258.7     260
4485          RY       3       1     0.5       0       0     0.5       1       3
              *

4486          KK  BD80pP RETRIEVE
4487          KM    Retrieve diverted pipe flow from D80pP.
4488          DR   D80pP
              *
```

```
4489          KK   P80pS   ROUTE
4490          KM    Route pipe flow from I-17/I-10 to subbasin 80q.
4491          RK    6200  0.0030   0.015            CIRC    6.50
              *

4492          KK   C80pS COMBINE
4493          KM    Combine hydrographs R36oS and P36oS.
4494          HC       2    8.32
              *

4495          KK     80q   BASIN
4496          KM    Subbasin at NEC of UPRR and I-17
4497          BA   0.497
4498          LG    0.20    0.15    9.70    0.06      31
4499          UC   1.060   0.761
4500          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4501          UA     100
              *

4502          KK    C80q COMBINE
4503          KM    Combine flows of 80q, C80pS, and R76qW
4504          HC       3   12.34
              *

4505          KK     28s   BASIN
4506          KM   Subbasin at NEC of UPRR and 40th St
4507          BA   0.164
4508          LG    0.15    0.23    5.80    0.25      42
4509          UC   0.579   0.325
4510          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4511          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4512          KK  BD28qP RETRIEVE
4513          KM    Retrieve diverted pipe flow from D28qP.
4514          DR   D28qP
              *

4515          KK  D28qP1  DIVERT
4516          KM    Divert 32 cfs into pipe (east).
4517          DT  D28qP2
4518          DI       0     340    1000
4519          DQ       0      32      32
              *

4520          KK   P28qS   ROUTE
4521          KM    Route pipe flow from 40th st/Grand Canal to subbasin 28s.
4522          RK    2500  0.0031   0.015            CIRC    7.00
              *

4523          KK  BD28qS RETRIEVE
4524          KM    Retrieve diverted surface flow from D28qS.
4525          DR   D28qS
              *

4526          KK   R28qS   ROUTE
4527          KM    Route surface flow south from Subbasin 28q to 28s.
4528          RS       1    FLOW      -1
4529          RC   0.050   0.016   0.050    1240  0.0065
4530          RX       0     0.8      32    78.4    81.6     128   159.2     160
4531          RY       3       1     0.5       0       0     0.5       1       3
              *

4532          KK   C28qS COMBINE
4533          KM    Combine hydrographs R28qS and P28qS.
4534          HC       2    0.82
              *

4535          KK    C28s COMBINE
4536          KM    Combine hydrographs C28qS and 28s.
4537          HC       2    0.98
              *

4538          KK    D28s  DIVERT
4539          KM    Divert 492 cfs into pipe (south).
4540          DT   D28sP
4541          DI       0     100     492   10000
4542          DQ       0     100     492     492
              *

4543          KK   D28sW  DIVERT
4544          KM    Divert 43% of surface flow to south.
```

```
4545          DT   D28sS
4546          DI       0     100    1000   10000
4547          DQ       0      43     434    4340
              *
                                   HEC-1 INPUT                                          PAGE127

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4548          KK   R28sW   ROUTE
4549          KM    Route surface flow west from Subbasin 28s to 32s.
4550          RS       5    FLOW      -1
4551          RC   0.050   0.016   0.050    2640  0.0023
4552          RX       0     0.8      32    78.4    81.6     128   159.2     160
4553          RY       3       1     0.5       0       0     0.5       1       3
              *

4554          KK     32s   BASIN
4555          KM    Subbasin at NEC of UPRR and 36th St
4556          BA   0.336
4557          LG    0.52    0.15    8.00    0.11      48
4558          UC   0.834   0.643
4559          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4560          UA     100
              *

4561          KK    C32s COMBINE
4562          KM    Combine hydrographs 32s and R28sW.
4563          HC       2    1.32
              *

4564          KK   S32s STORAGE
4565          KM    Regional online retention basin, 16 ac-ft.
4566          RS       1    STOR       0
4567          SV       0     0.9     2.2     3.9     6.1     8.8      16    21.2
4568          SE       0       2       4       6       8      10      14      16
4569          SS      14     100     2.7     1.5
              *

4570          KK    D32s  DIVERT
4571          KM    Divert 48 cfs into pipe (west).
4572          DT   D32sP
4573          DI       0      48    1000   10000
4574          DQ       0      48      48      48
              *

4575          KK   R32sW   ROUTE
4576          KM    Route surface flow west from Subbasin 32s to 36s.
4577          RS       4    FLOW      -1
4578          RC   0.050   0.016   0.050    2640  0.0015
4579          RX       0     1.3      52   127.4   132.6     208   258.7     260
4580          RY       3       1     0.5       0       0     0.5       1       3
              *

4581          KK  BD32sP RETRIEVE
4582          KM    Retrieve diverted pipe flow from D32sP.
4583          DR   D32sP
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4584          KK   P32sW   ROUTE
4585          KM    Route pipe flow from subbasin 32s to subbasin 36s.
4586          RK    2650  0.0030   0.015            CIRC     3.5
              *

4587          KK   C32sW COMBINE
4588          KM    Combine hydrographs R32sW and P32sW.
4589          HC       2    1.32
              *

4590          KK     36s   BASIN
4591          KM    Subbasin at NEC of UPRR and 32nd St
4592          BA   0.241
4593          LG    0.19    0.13   10.10    0.05      34
4594          UC   0.757   0.486
4595          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4596          UA     100
              *

4597          KK  BD36qP RETRIEVE
4598          KM    Retrieve diverted pipe flow from D36qP.
4599          DR   D36qP
              *
```

```
4600          KK   P36qS   ROUTE
4601          KM    Route pipe flow from 32nd st/Van Buren to subbasin 36s.
4602          RK    2500  0.0065   0.015            CIRC    6.00
              *

4603          KK  BD36qS RETRIEVE
4604          KM    Retrieve diverted surface flow from D36qS.
4605          DR   D36qS
              *

4606          KK   R36qS   ROUTE
4607          KM    Route surface flow south from Subbasin 36q to 36s.
4608          RS       4    FLOW      -1
4609          RC   0.050   0.016   0.050    2530  0.0032
4610          RX       0    0.75      30    73.5    76.5     120  149.25     150
4611          RY       3       1     0.5       0       0     0.5       1       3
              *

4612          KK   C36qS COMBINE
4613          KM    Combine hydrographs R36qS and P36qS.
4614          HC       2    1.56
              *

4615          KK    C36s COMBINE
4616          KM    Combine hydrographs C36qS, 36s, and C32sW.
4617          HC       3    2.30
              *
1                                        HEC-1 INPUT                                                    PAGE129

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4618          KK    D36s  DIVERT
4619          KM    Divert 303 cfs into pipe (south).
4620          DT   D36sP
4621          DI       0     100     303   10000
4622          DQ       0     100     303     303
              *

4623          KK   R36sW   ROUTE
4624          KM    Route surface flow west from Subbasin 36s to 40s.
4625          RS       2    FLOW      -1
4626          RC   0.050   0.016   0.050    2640  0.0015
4627          RX       0     0.8      32    78.4    81.6     128   159.2     160
4628          RY       3       1     0.5       0       0     0.5       1       3
              *

4629          KK     40s   BASIN
4630          KM    Subbasin at NEC of UPRR and 28th St
4631          BA   0.244
4632          LG    0.15    0.13   10.10    0.05      48
4633          UC   0.776   0.496
4634          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4635          UA     100
              *

4636          KK  BD40qS RETRIEVE
4637          KM    Retrieve diverted surface flow from D40qS.
4638          DR   D40qS
              *

4639          KK   R40qS   ROUTE
4640          KM    Route surface flow south from Subbasin 40q to 40s.
4641          RS       3    FLOW      -1
4642          RC   0.050   0.016   0.050    2540  0.0024
4643          RX       0    1.05      42   102.9   107.1     168  208.95     210
4644          RY       3       1     0.5       0       0     0.5       1       3
              *

4645          KK    C40s COMBINE
4646          KM    Combine hydrographs R40qS, 40s, and R36sW.
4647          HC       3    2.89
              *

4648          KK    D40s  DIVERT
4649          KM    Divert 68 cfs into pipe (west).
4650          DT   D40sP
4651          DI       0      68    1000   10000
4652          DQ       0      68      68      68
              *
1                                        HEC-1 INPUT                                                    PAGE130

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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4653          KK   R40sW   ROUTE
4654          KM    Route surface flow west from Subbasin 40s to 44s.
4655          RS       2    FLOW      -1
4656          RC   0.050   0.016   0.050    2640  0.0015
4657          RX       0     1.1      44   107.8   112.2     176   218.9     220
4658          RY       3       1     0.5       0       0     0.5       1       3
              *

4659          KK  BD40sP RETRIEVE
4660          KM    Retrieve diverted pipe flow from D40sP.
4661          DR   D40sP
              *

4662          KK   P40sW   ROUTE
4663          KM    Route pipe flow from subbasin 40s to subbasin 44s.
4664          RK    2800  0.0030   0.015            CIRC     4.0
              *

4665          KK   C40sW COMBINE
4666          KM    Combine hydrographs R40sW and P40sW.
4667          HC       2    2.89
              *

4668          KK     44s   BASIN
4669          KM    Subbasin at NEC of UPRR and 24th St
4670          BA   0.240
4671          LG    0.16    0.13   10.10    0.05      44
4672          UC   0.858   0.559
4673          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4674          UA     100
              *

4675          KK  BD44qP RETRIEVE
4676          KM    Retrieve diverted pipe flow from D44qP.
4677          DR   D44qP
              *

4678          KK   P44qS   ROUTE
4679          KM    Route pipe flow from 24th st/Van Buren to subbasin 44s.
4680          RK    2500  0.0030   0.015            CIRC    6.00
              *

4681          KK  BD44qS RETRIEVE
4682          KM    Retrieve diverted surface flow from D44qS.
4683          DR   D44qS
              *

4684          KK   R44qS   ROUTE
4685          KM    Route surface flow south from Subbasin 44q to 44s.
4686          RS       3    FLOW      -1
4687          RC   0.050   0.016   0.050    2550  0.0016
4688          RX       0    0.75      30    73.5    76.5     120  149.25     150
4689          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4690          KK   C44qS COMBINE
4691          KM    Combine hydrographs R44qS and P44qS.
4692          HC       2    2.57
              *

4693          KK    C44s COMBINE
4694          KM    Combine hydrographs C44qS, 44s, and C40sW.
4695          HC       3    3.79
              *

4696          KK    D44s  DIVERT
4697          KM    Divert 201 cfs into pipe (south).
4698          DT   D44sP
4699          DI       0     100     201   10000
4700          DQ       0     100     201     201
              *

4701          KK   R44sW   ROUTE
4702          KM    Route surface flow west from Subbasin 44s to 48s.
4703          RS       3    FLOW      -1
4704          RC   0.050   0.016   0.050    2400  0.0017
4705          RX       0     1.1      44   107.8   112.2     176   218.9     220
4706          RY       3       1     0.5       0       0     0.5       1       3
              *

4707          KK     48s   BASIN
4708          KM    Subbasin at NEC of UPRR and I-10
```

```
4709          BA   0.212
4710          LG    0.15    0.15    9.70    0.06      49
4711          UC   0.747   0.481
4712          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4713          UA     100
              *

4714          KK  BD48qS RETRIEVE
4715          KM    Retrieve diverted flow from D48qS.
4716          DR   D48qS
              *

4717          KK   R48qS   ROUTE
4718          KM    Route surface flow south from Subbasin 48q to 48s.
4719          RS       2    FLOW      -1
4720          RC   0.050   0.016   0.050    2550  0.0016
4721          RX       0    0.75      30    73.5    76.5     120  149.25     150
4722          RY       3       1     0.5       0       0     0.5       1       3
              *

4723          KK    C48s COMBINE
4724          KM    Combine hydrographs R48qS, 48s, and R44sW.
4725          HC       3    4.31
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4726          KK   DB48s  DIVERT
4727          KM    Divert flow into East Tunnel.
4728          KM    102" SD at Admas St and 96" SD at Madison St. Q =600+468=1068 cfs
4729          DT  D48sPT
4730          DI       0     100    1068   10000
4731          DQ       0     100    1068    1068
              *

4732          KK    S48s STORAGE
4733          KM    Regional online detention basin, 0.6 ac-ft.
4734          RS       1    STOR       0
4735          SV       0     0.6       2
4736          SE       0       1       3
4737          SQ       0      24     290
              *

4738          KK   R48sW   ROUTE
4739          KM    Route surface flow west from Subbasin 48s to 52s.
4740          RS       6    FLOW      -1
4741          RC   0.050   0.016   0.050    3000  0.0014
4742          RX       0     0.9      36    88.2    91.8     144   179.1     180
4743          RY       3       1     0.5       0       0     0.5       1       3
              *

4744          KK     52s   BASIN
4745          KM    Subbasin at NEC of UPRR and 16th St
4746          BA   0.265
4747          LG    0.17    0.13   10.10    0.05      44
4748          UC   0.807   0.520
4749          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4750          UA     100
              *

4751          KK  BD52qP RETRIEVE
4752          KM    Retrieve diverted pipe flow from D52qP.
4753          DR   D52qP
              *

4754          KK   P52qS   ROUTE
4755          KM    Route pipe flow from subbasin 52q to subbasin 52s.
4756          RK    2500  0.0139   0.015            CIRC    4.42
              *

4757          KK  BD52qS RETRIEVE
4758          KM    Retrieve diverted surface flow from D52qS.
4759          DR   D52qS
              *

4760          KK   R52qS   ROUTE
4761          KM    Route surface flow south from Subbasin 52q to 52s.
4762          RS       5    FLOW      -1
4763          RC   0.050   0.016   0.050    2500  0.0024
4764          RX       0    1.85      74   181.3   188.7     296  368.15     370
4765          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                          PAGE133
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4766          KK   C52qS COMBINE
4767          KM    Combine hydrographs R52qS and P52qS.
4768          HC       2    0.39
              *

4769          KK    C52s COMBINE
4770          KM    Combine hydrographs C52s, C52qS, and R48sW.
4771          HC       3    0.66
              *

4772          KK    D52s  DIVERT
4773          KM    Divert 191 cfs into pipe (south).
4774          DT   D52sP
4775          DI       0     100     191   10000
4776          DQ       0     100     191     191
              *

4777          KK   R52sW   ROUTE
4778          KM    Route surface flow west from Subbasin 52s to 56s.
4779          RS       5    FLOW      -1
4780          RC   0.050   0.016   0.050    2640  0.0015
4781          RX       0     0.8      32    78.4    81.6     128   159.2     160
4782          RY       3       1     0.5       0       0     0.5       1       3
              *

4783          KK     56s   BASIN
4784          KM    Subbasin at NEC of UPRR and 12th St
4785          BA   0.255
4786          LG    0.18    0.10   11.20    0.03      39
4787          UC   0.800   0.495
4788          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4789          UA     100
              *

4790          KK  BD56qP RETRIEVE
4791          KM    Retrieve diverted pipe flow from D56qP.
4792          DR   D56qP
              *

4793          KK   P56qS   ROUTE
4794          KM    Route pipe flow from 12th st/Van Buren to subbasin 56s.
4795          RK    2600  0.0030   0.015            CIRC    4.00
              *

4796          KK  BD56qS RETRIEVE
4797          KM    Retrieve diverted surface flow from D56qS.
4798          DR   D56qS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4799          KK   R56qS   ROUTE
4800          KM    Route surface flow south from Subbasin 56q to 56s.
4801          RS       5    FLOW      -1
4802          RC   0.050   0.016   0.050    2500  0.0024
4803          RX       0    1.25      50   122.5   127.5     200  248.75     250
4804          RY       3       1     0.5       0       0     0.5       1       3
              *

4805          KK   C56qS COMBINE
4806          KM    Combine hydrographs R56qS and P56qS.
4807          HC       2    0.75
              *

4808          KK    C56s COMBINE
4809          KM    Combine hydrographs C56qS, 56s, and R52sW.
4810          HC       3    1.27
              *

4811          KK    D56s  DIVERT
4812          KM    Divert 201 cfs into pipe (south).
4813          DT   D56sP
4814          DI       0     100     201   10000
4815          DQ       0     100     201     201
              *

4816          KK   D56sW  DIVERT
4817          KM    Divert 15% of surface flow to south.
4818          DT   D56sS
4819          DI       0     100    1000   10000
4820          DQ       0      15     150    1500
```

```
                *
4821            KK   R56sW   ROUTE
4822            KM    Route surface flow west from Subbasin 56s to 60s.
4823            RS       3    FLOW      -1
4824            RC   0.050   0.016   0.050    2640  0.0015
4825            RX       0     0.8      32    78.4    81.6     128   159.2     160
4826            RY       3       1     0.5       0       0     0.5       1       3
                *

4827            KK     60s   BASIN
4828            KM    Subbasin at NEC of UPRR and 7th St
4829            BA   0.253
4830            LG    0.14    0.13   10.10    0.05      55
4831            UC   0.664   0.417
4832            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4833            UA     100
                *
1                                          HEC-1 INPUT                                          PAGE135

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4834            KK  BD60qP RETRIEVE
4835            KM    Retrieve diverted pipe flow from D60qP.
4836            DR   D60qP
                *

4837            KK   P60qS   ROUTE
4838            KM    Route pipe flow from subbasin 60q to subbasin 60s.
4839            RK    2600  0.0031   0.015            CIRC    6.75
                *

4840            KK  BD60qS RETRIEVE
4841            KM    Retrieve diverted surface flow from D60qS.
4842            DR   D60qS
                *

4843            KK   R60qS   ROUTE
4844            KM    Route surface flow south from Subbasin 60q to 60s.
4845            RS       6    FLOW      -1
4846            RC   0.050   0.016   0.050    2600  0.0037
4847            RX       0    1.25      50   122.5   127.5     200  248.75     250
4848            RY       3       1     0.5       0       0     0.5       1       3
                *

4849            KK   C60qS COMBINE
4850            KM    Combine hydrographs R60qS and P60qS.
4851            HC       2    1.10
                *

4852            KK    C60s COMBINE
4853            KM    Combine flows of 60s, c60qS, and R56sW
4854            HC       3    1.87
                *

4855            KK    D60s  DIVERT
4856            KM    Divert 217 cfs into pipe (west).
4857            DT   D60sP
4858            DI       0     100     217   10000
4859            DQ       0     100     217     217
                *

4860            KK   D60sW  DIVERT
4861            KM    Divert 28% of surface flow to south.
4862            DT   D60sS
4863            DI       0     100    1000   10000
4864            DQ       0      28     280    2800
                *

4865            KK   R60sW   ROUTE
4866            KM    Route surface flow west from Subbasin 60s to 64s.
4867            RS       3    FLOW      -1
4868            RC   0.050   0.016   0.050    2640  0.0008
4869            RX       0     0.8      32    78.4    81.6     128   159.2     160
4870            RY       3       1     0.5       0       0     0.5       1       3
                *
1                                          HEC-1 INPUT                                          PAGE136

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4871            KK  BD60sP RETRIEVE
4872            KM    Retrieve diverted pipe flow from D60sP.
4873            DR   D60sP
                *
```

```
4874          KK   P60sW   ROUTE
4875          KM    Route pipe flow from subbasin 60s to subbasin 64s.
4876          RK    1150  0.0030   0.015            CIRC     6.2
              *

4877          KK   C60sW COMBINE
4878          KM    Combine hydrographs R60sW and P60sW.
4879          HC       2    1.87
              *

4880          KK     64s   BASIN
4881          KM    Subbasin at NEC of UPRR and Central
4882          BA   0.258
4883          LG    0.11    0.15    9.70    0.07      65
4884          UC   0.690   0.421
4885          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4886          UA     100
              *

4887          KK  BD64qS RETRIEVE
4888          KM    Retrieve diverted surface flow from D64qS.
4889          DR   D64qS
              *

4890          KK   R64qS   ROUTE
4891          KM    Route surface flow south from Subbasin 64q to 64s.
4892          RS       3    FLOW      -1
4893          RC   0.050   0.016   0.050    2480  0.0032
4894          RX       0    1.55      62   151.9   158.1     248  308.45     310
4895          RY       3       1     0.5       0       0     0.5       1       3
              *

4896          KK    C64s COMBINE
4897          KM    Combine flows of 64s, R64qS, and C60sW
4898          HC       3    2.54
              *

4899          KK    D64s  DIVERT
4900          KM    Divert 0.0 cfs into West Tunnel.
4901          KM    Assuming no connection to ADOT West Tunnel.
4902          DT  D64sPT
4903          DI       0     100    1000   10000
4904          DQ       0       0       0       0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4905          KK   D64s1  DIVERT
4906          KM    Divert 327 cfs into storm drain.
4907          KM    600 cfs for two pipes combined but limited by D/S pipe capacity.
4908          DT   D64sP
4909          DI       0     100     327    1000   10000
4910          DQ       0     100     327     327     327
              *

4911          KK   D64sW  DIVERT
4912          KM    Divert 42% of surface flow to south.
4913          DT   D64sS
4914          DI       0     100    1000   10000
4915          DQ       0      42     420    4200
              *

4916          KK   R64sW   ROUTE
4917          KM    Route surface flow west from Subbasin 64s to 68s.
4918          RS       3    FLOW      -1
4919          RC   0.050   0.016   0.050    2280  0.0026
4920          RX       0     1.3      52   127.4   132.6     208   258.7     260
4921          RY       3       1     0.5       0       0     0.5       1       3
              *

4922          KK     68s   BASIN
4923          KM    Subbasin at NEC of UPRR and 7th Ave
4924          BA   0.236
4925          LG    0.12    0.25    5.20    0.35      60
4926          UC   0.715   0.446
4927          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4928          UA     100
              *

4929          KK  BD68qS RETRIEVE
4930          KM    Retrieve diverted surface flow from D68qS.
4931          DR   D68qS
              *
```

```
4932          KK   R68qS   ROUTE
4933          KM    Route surface flow south from Subbasin 68q to 68s.
4934          RS       3    FLOW      -1
4935          RC   0.050   0.016   0.050    2800  0.0024
4936          RX       0    1.25      50   122.5   127.5     200  248.75     250
4937          RY       3       1     0.5       0       0     0.5       1       3
              *

4938          KK    C68s COMBINE
4939          KM    Combine hydrographs 68s,R68qS, and R64sW
4940          HC       3    3.07
              *
1                                        HEC-1 INPUT                                                    PAGE138

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4941          KK    D68s  DIVERT
4942          KM    Divert 124 cfs into pipe (south).
4943          DT   D68sP
4944          DI       0     100     124   10000
4945          DQ       0     100     124     124
              *

4946          KK   D68sW  DIVERT
4947          KM    Divert 28% of surface flow to south.
4948          DT   D68sS
4949          DI       0     100    1000   10000
4950          DQ       0      28     280    2800
              *

4951          KK   R68sW   ROUTE
4952          KM    Route surface flow west from Subbasin 68s to 72s.
4953          RS       3    FLOW      -1
4954          RC   0.050   0.016   0.050    2640  0.0015
4955          RX       0    1.55      62   151.9   158.1     248  308.45     310
4956          RY       3       1     0.5       0       0     0.5       1       3
              *

4957          KK     72s   BASIN
4958          KM    Subbasin at NEC of UPRR and 15th Ave
4959          BA   0.283
4960          LG    0.16    0.15    9.70    0.06      35
4961          UC   0.753   0.454
4962          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4963          UA     100
              *

4964          KK  BD72qP RETRIEVE
4965          KM    Retrieve diverted pipe flow from D72qP.
4966          KM    Total pipe flow = 662 cfs
4967          DR   D72qP
              *

4968          KK  D72qP1  DIVERT
4969          KM    Divert flow into pipe (south).
4970          DT  D72qP2
4971          DI       0     662     700
4972          DQ       0     229     242
              *

4973          KK  P72qS1  ROUTE
4974          KM    Route pipe flow from 15th ave/Van Buren to subbasin 72s.
4975          RK    3000  0.0030   0.015            CIRC    8.00
              *
1                                        HEC-1 INPUT                                                    PAGE139

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4976          KK  B72qP2 RETRIEVE
4977          KM    Retrieve diverted pipe flow from D72qP2.
4978          DR  D72qP2
              *

4979          KK  P72qS2  ROUTE
4980          KM    Route pipe flow from subbasin 72q to subbasin 72s.
4981          RK    3000  0.0031   0.015            CIRC     6.3
              *

4982          KK  BD72qS RETRIEVE
4983          KM    Retrieve diverted surface flow from D72qS.
4984          DR   D72qS
              *
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4985          KK   R72qS   ROUTE
4986          KM    Route surface flow south from Subbasin 72q to 72s.
4987          RS       4    FLOW      -1
4988          RC   0.050   0.016   0.050    3000  0.0024
4989          RX       0    1.25      50   122.5   127.5     200  248.75     250
4990          RY       3       1     0.5       0       0     0.5       1       3
              *

4991          KK   C72qS COMBINE
4992          KM    Combine hydrographs R72qS, P72qS2, and P72qS1.
4993          HC       3    3.13
              *

4994          KK    C72s COMBINE
4995          KM    COmbine flows of C72qS, 72s, and R68sW
4996          HC       3    4.68
              *

4997          KK    D72s  DIVERT
4998          KM    Divert 662 cfs into pipe (433 cfs + 229 cfs) (south).
4999          DT   D72sP
5000          DI       0     100     662   10000
5001          DQ       0     100     662     662
              *

5002          KK   D72sW  DIVERT
5003          KM    Divert 40% of surface flow to south.
5004          DT   D72sS
5005          DI       0     100    1000   10000
5006          DQ       0      40     400    4000
              *

5007          KK   R72sW   ROUTE
5008          KM    Route surface flow west from Subbasin 72s to 76s.
5009          RS       4    FLOW      -1
5010          RC   0.050   0.016   0.050    2640  0.0008
5011          RX       0     1.3      52   127.4   132.6     208   258.7     260
5012          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5013          KK     76s   BASIN
5014          KM    Subbasin at NEC of UPRR and 19th Ave
5015          BA   0.279
5016          LG    0.11    0.15    9.70    0.07      54
5017          UC   0.771   0.451
5018          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5019          UA     100
              *

5020          KK    S76s STORAGE
5021          KM    Online Retention Basin, 0.7 ac-ft.
5022          RS       1    STOR       0
5023          SV       0     0.7       2
5024          SE       0       2       4
5025          SS       2     100     2.7     1.5
              *

5026          KK  BD76qP RETRIEVE
5027          KM    Retrieve diverted pipe flow from D76qP.
5028          DR   D76qP
              *

5029          KK   P76qS   ROUTE
5030          KM    Route pipe flow from 19th ave/Van Buren to subbasin 76s.
5031          RK    2200  0.0031   0.015            CIRC    6.25
              *

5032          KK  BD76qS RETRIEVE
5033          KM    Retrieve diverted surface flow from D76qS.
5034          DR   D76qS
              *

5035          KK   R76qS   ROUTE
5036          KM    Route surface flow south from Subbasin 76q to 76s.
5037          RS       2    FLOW      -1
5038          RC   0.050   0.016   0.050    2480  0.0032
5039          RX       0    1.55      62   151.9   158.1     248  308.45     310
5040          RY       3       1     0.5       0       0     0.5       1       3
              *

5041          KK   C76qS COMBINE
5042          KM    Combine hydrographs P76qS and R76qS.
```

```
5043          HC       2   11.45
              *

5044          KK    C76s COMBINE
5045          KM    Combine hydrographs S76s, C76qS, and R72sW.
5046          HC       3   13.28
              *
1                                        HEC-1 INPUT                                                    PAGE141

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5047          KK    D76s  DIVERT
5048          KM    Divert 204 cfs into pipe (south).
5049          DT   D76sP
5050          DI       0     100     204   10000
5051          DQ       0     100     204     204
              *

5052          KK   D76sW  DIVERT
5053          KM    Divert 22% of surface flow to south.
5054          DT   D76sS
5055          DI       0     100    1000   10000
5056          DQ       0      22     220    2200
              *

5057          KK   R76sW   ROUTE
5058          KM    Route surface flow west from Subbasin 76s to 80q.
5059          RS       3    FLOW      -1
5060          RC   0.050   0.016   0.050    2290  0.0009
5061          RX       0    1.25      50   122.5   127.5     200  248.75     250
5062          RY       3       1     0.5       0       0     0.5       1       3
              *

5063          KK   CC80q COMBINE
5064          KM    COmbine flows of C80q and R76sW
5065          HC       2   14.17
              *

5066          KK    D80q  DIVERT
5067          KM    Divert 364 cfs into pipe (south).
5068          DT   D80qP
5069          DI       0     100     364   10000
5070          DQ       0     100     364     364
              *

5071          KK   D80qS  DIVERT
5072          KM    Divert 100% of surface flow to west because of the SPRR.
5073          DT   D80qW
5074          DI       0     100    1000   10000
5075          DQ       0     100    1000   10000
              *

5076          KK   R80qS   ROUTE
5077          KM    Route surface flow south from Subbasin 80q to 80t.
5078          RS       2    FLOW      -1
5079          RC   0.050   0.016   0.050    2900  0.0042
5080          RX       0    0.75      30    73.5    76.5     120  149.25     150
5081          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE142

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5082          KK  BD80qP RETRIEVE
5083          KM    Retrieve diverted pipe flow from D80qP.
5084          DR   D80qP
              *

5085          KK   P80qS   ROUTE
5086          KM    Route pipe flow from SPRR/I-17 to subbasin 80t.
5087          RK    2700  0.0030   0.015            CIRC    7.50
              *

5088          KK   C80qS COMBINE
5089          KM    Combine hydrographs R80qS and P80qS.
5090          HC       2   14.17
              *

5091          KK     52t   BASIN
5092          KM    Subbasin at NEC of Buckeye and 16th St
5093          BA   0.297
5094          LG    0.15    0.15    8.00    0.11      42
5095          UC   0.876   0.545
5096          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
```

```
5097          UA     100
              *

5098          KK    S52t STORAGE
5099          KM    Online Retention Basin, 4 ac-ft.
5100          RS       1    STOR       0
5101          SV       0     1.6       4       7
5102          SE       0       2       4       6
5103          SS       4     100     2.7     1.5
              *

5104          KK  BD52sP RETRIEVE
5105          KM    Retrieve diverted pipe flow from D52sP.
5106          DR   D52sP
              *

5107          KK   P52sS   ROUTE
5108          KM    Route pipe flow from 16th st/SPRR to subbasin 52t.
5109          RK    2850  0.0139   0.015            CIRC    4.42
              *

5110          KK    C52t COMBINE
5111          KM    Combine hydrographs S52t and P52sS.
5112          HC       2    0.96
              *

5113          KK    D52t  DIVERT
5114          KM    Divert 281 cfs into pipe (south).
5115          DT   D52tP
5116          DI       0     100     281   10000
5117          DQ       0     100     281     281
              *
1                                        HEC-1 INPUT                                                PAGE143

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5118          KK   D52tW  DIVERT
5119          KM    Divert 41% of surface flow to south.
5120          DT   D52tS
5121          DI       0     100    1000   10000
5122          DQ       0      41     410    4100
              *

5123          KK   R52tW   ROUTE
5124          KM    Route surface flow west from Subbasin 52t to 56t.
5125          RS       3    FLOW      -1
5126          RC   0.050   0.016   0.050    2640  0.0023
5127          RX       0     0.5      20      49      51      80    99.5     100
5128          RY       3       1     0.5       0       0     0.5       1       3
              *

5129          KK     56t   BASIN
5130          KM    Subbasin at NEC of Buckeye and 12th St
5131          BA   0.179
5132          LG    0.12    0.15    8.80    0.08      57
5133          UC   0.768   0.603
5134          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5135          UA     100
              *

5136          KK  BD56sP RETRIEVE
5137          KM    Retrieve diverted pipe flow from D56sP.
5138          DR   D56sP
              *

5139          KK   P56sS   ROUTE
5140          KM    Route pipe flow from subbasin 56s to subbasin 56t.
5141          RK    2900  0.0030   0.015            CIRC    6.00
              *

5142          KK  BD56sS RETRIEVE
5143          KM    Retrieve diverted surface flow from D56sS.
5144          DR   D56sS
              *

5145          KK   R56sS   ROUTE
5146          KM    Route surface flow south from Subbasin 56s to 56t.
5147          RS       6    FLOW      -1
5148          RC   0.050   0.016   0.050    2900  0.0030
5149          RX       0     1.3      52   127.4   132.6     208   258.7     260
5150          RY       3       1     0.5       0       0     0.5       1       3
              *

5151          KK   C56sS COMBINE
5152          KM    Combine hydrographs R56sS and P56sS.
```

```
5153          HC       2    1.27
              *
1                                          HEC-1 INPUT                                                    PAGE144

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5154          KK    C56t COMBINE
5155          KM    Combine hydrographs 56t, R52tW, and C56sS.
5156          HC       3    1.74
              *

5157          KK    D56t  DIVERT
5158          KM    Divert 612 cfs into pipe (south).
5159          DT   D56tP
5160          DI       0     100     612   10000
5161          DQ       0     100     612     612
              *

5162          KK   D56tW  DIVERT
5163          KM    Divert 35% of surface flow to south.
5164          DT   D56tS
5165          DI       0     100    1000   10000
5166          DQ       0      35     350    3500
              *

5167          KK   R56tW   ROUTE
5168          KM    Route surface flow west from Subbasin 56t to 60t.
5169          RS       2    FLOW      -1
5170          RC   0.050   0.016   0.050    2640  0.0023
5171          RX       0     0.5      20      49      51      80    99.5     100
5172          RY       3       1     0.5       0       0     0.5       1       3
              *

5173          KK     60t   BASIN
5174          KM    Subbasin at NEC of Buckeye and 7th St
5175          BA   0.328
5176          LG    0.17    0.15    8.00    0.11      42
5177          UC   0.903   0.609
5178          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5179          UA     100
              *

5180          KK    S60t STORAGE
5181          KM    Online Retention Basin, 0.7 ac-ft.
5182          RS       1    STOR       0
5183          SV       0     0.3     0.7     1.3
5184          SE       0       2       4       6
5185          SS       4     100     2.7     1.5
              *

5186          KK  BD60sS RETRIEVE
5187          KM    Retrieve diverted surface flow from D60sS.
5188          DR   D60sS
              *
1                                          HEC-1 INPUT                                                    PAGE145

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5189          KK   R60sS   ROUTE
5190          KM    Route surface flow south from Subbasin 60s to 60t.
5191          RS       3    FLOW      -1
5192          RC   0.050   0.016   0.050    2900  0.0035
5193          RX       0     1.3      52   127.4   132.6     208   258.7     260
5194          RY       3       1     0.5       0       0     0.5       1       3
              *

5195          KK    C60t COMBINE
5196          KM    Combine hydrographs R60sS, S60t and R56tW.
5197          HC       3    2.68
              *

5198          KK   D60tW  DIVERT
5199          KM    Divert 27% of surface flow to south.
5200          DT   D60tS
5201          DI       0     100    1000   10000
5202          DQ       0      27     270    2700
              *

5203          KK   R60tW   ROUTE
5204          KM    Route surface flow west from Subbasin 60t to 64t.
5205          RS       3    FLOW      -1
5206          RC   0.050   0.016   0.050    2640  0.0023
5207          RX       0    0.75      30    73.5    76.5     120  149.25     150
5208          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *
5209            KK     64t   BASIN
5210            KM    Subbasin at NEC of Buckeye and Central
5211            BA   0.271
5212            LG    0.15    0.21    6.40    0.21      49
5213            UC   0.845   0.530
5214            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5215            UA     100
                *

5216            KK  BD64sP RETRIEVE
5217            KM    Retrieve diverted pipe flow from D64sP.
5218            DR   D64sP
                *

5219            KK   P64sS  ROUTE
5220            KM    Route pipe flow from subbasin 64s to subbasin 64t.
5221            KM    Two pipes equivalent D = 10'
5222            RK    2800  0.0035   0.015            CIRC    10.0
                *

5223            KK  BD64sS RETRIEVE
5224            KM    Retrieve diverted surface flow from D64sS.
5225            DR   D64sS
                *
1                                          HEC-1 INPUT                                          PAGE146

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5226            KK   R64sS   ROUTE
5227            KM    Route surface flow south from Subbasin 64s to 64t.
5228            RS       3    FLOW      -1
5229            RC   0.050   0.016   0.050    2900  0.0035
5230            RX       0     1.3      52   127.4   132.6     208   258.7     260
5231            RY       3       1     0.5       0       0     0.5       1       3
                *

5232            KK   C64sS COMBINE
5233            KM    Combine hydrographs R64sS and P64sS.
5234            HC       2    2.54
                *

5235            KK    C64t COMBINE
5236            KM    Combine flows of 64t, C64sS, and R60tW
5237            HC       3    3.61
                *

5238            KK    D64t  DIVERT
5239            KM    Divert 0.0 cfs into ADOT West Tunnel (assuming no connection).
5240            DT  D64tPT
5241            DI       0     100    1000   10000
5242            DQ       0       0       0       0
                *

5243            KK   D64t1  DIVERT
5244            KM    Divert 375 (327+48) cfs into pipes (south).
5245            DT   D64tP
5246            DI       0     100     375   10000
5247            DQ       0     100     375     375
                *

5248            KK   D64tW  DIVERT
5249            KM    Divert 44% of surface flow to south.
5250            DT   D64tS
5251            DI       0     100    1000   10000
5252            DQ       0      44     440    4400
                *

5253            KK   R64tW   ROUTE
5254            KM    Route surface flow west from Subbasin 64t to 68t.
5255            RS       3    FLOW      -1
5256            RC   0.050   0.016   0.050    2640  0.0023
5257            RX       0     1.3      52   127.4   132.6     208   258.7     260
5258            RY       3       1     0.5       0       0     0.5       1       3
                *

5259            KK     68t   BASIN
5260            KM    Subbasin at NEC of Buckeye and 7th Ave
5261            BA   0.251
5262            LG    0.20    0.15    8.80    0.08      33
5263            UC   0.738   0.476
5264            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5265            UA     100
                *
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5266          KK  BD68sP RETRIEVE
5267          KM    Retrieve diverted pipe flow from D68sP.
5268          DR   D68sP
              *

5269          KK   P68sS   ROUTE
5270          KM    Route pipe flow from 7th ave/SPRR to subbasin 68t.
5271          RK    2500  0.0030   0.015            CIRC    5.00
              *

5272          KK  BD68sS RETRIEVE
5273          KM    Retrieve diverted surface flow from D68sS.
5274          DR   D68sS
              *

5275          KK   R68sS   ROUTE
5276          KM    Route surface flow south from Subbasin 68s to 68t.
5277          RS       3    FLOW      -1
5278          RC   0.050   0.016   0.050    2600  0.0035
5279          RX       0     1.3      52   127.4   132.6     208   258.7     260
5280          RY       3       1     0.5       0       0     0.5       1       3
              *

5281          KK   C68sS COMBINE
5282          KM    Combine hydrographs R68sS and P68sS.
5283          HC       2    3.07
              *

5284          KK    C68t COMBINE
5285          KM    Combine flows of 68t, C68sS, and R64tW
5286          HC       3    4.39
              *

5287          KK    D68t  DIVERT
5288          KM    Divert 124 cfs into pipe (south).
5289          DT   D68tP
5290          DI       0     100     124   10000
5291          DQ       0     100     124     124
              *

5292          KK   D68tW  DIVERT
5293          KM    Divert 46% of surface flow to south.
5294          DT   D68tS
5295          DI       0     100    1000   10000
5296          DQ       0      46     460    4600
              *

5297          KK   R68tW   ROUTE
5298          KM    Route surface flow west from Subbasin 68t to 72t.
5299          RS       2    FLOW      -1
5300          RC   0.050   0.016   0.050    2640  0.0023
5301          RX       0    1.05      42   102.9   107.1     168  208.95     210
5302          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5303          KK     72t   BASIN
5304          KM    Subbasin at NEC of Buckeye and 15th Ave
5305          BA   0.222
5306          LG    0.21    0.15    9.70    0.06      31
5307          UC   0.804   0.657
5308          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5309          UA     100
              *

5310          KK  BD72sS RETRIEVE
5311          KM    Retrieve diverted surface flow from D72sS.
5312          DR   D72sS
              *

5313          KK   R72sS   ROUTE
5314          KM    Route surface flow south from Subbasin 72s to 72t.
5315          RS       2    FLOW      -1
5316          RC   0.050   0.016   0.050    2400  0.0051
5317          RX       0    1.05      42   102.9   107.1     168  208.95     210
5318          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
5319          KK  BD72sP RETRIEVE
5320          KM    Retrieve diverted pipe flow from D72sP.
5321          DR   D72sP
              *

5322          KK  D72sP1  DIVERT
5323          KM    Divert flow into pipe (south).
5324          DT  D72sP2
5325          DI       0     662     700
5326          DQ       0     229     242
              *

5327          KK  P72sS1  ROUTE
5328          KM    Route pipe flow from subbasin 72s to subbasin 72t.
5329          RK    2350  0.0030   0.015            CIRC    8.00
              *

5330          KK  B72sP2 RETRIEVE
5331          KM    Retrieve diverted pipe flow from D72sP2.
5332          DR  D72sP2
              *

5333          KK  P72sS2  ROUTE
5334          KM    Route pipe flow from subbasin 72s to subbasin 72t.
5335          RK    2350  0.0031   0.015            CIRC     6.3
              *
1                                   HEC-1 INPUT                                          PAGE149

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5336          KK   C72sS COMBINE
5337          KM    Combine flow of R72sS, P72sS1, and P72sS2
5338          HC       3    4.68
              *

5339          KK    C72t COMBINE
5340          KM    Combine flows of C72sS, 72s, and R68tW
5341          HC       3    6.23
              *

5342          KK    D72t  DIVERT
5343          KM    Divert 714 cfs into pipe (433 cfs + 281 cfs) (south).
5344          DT   D72tP
5345          DI       0     100     714   10000
5346          DQ       0     100     714     714
              *

5347          KK   D72tW  DIVERT
5348          KM    Divert 53% of surface flow to south.
5349          DT   D72tS
5350          DI       0     100    1000   10000
5351          DQ       0      53     530    5300
              *

5352          KK   R72tW   ROUTE
5353          KM    Route surface flow west from Subbasin 72t to 76t.
5354          RS       3    FLOW      -1
5355          RC   0.050   0.016   0.050    2640  0.0015
5356          RX       0     1.3      52   127.4   132.6     208   258.7     260
5357          RY       3       1     0.5       0       0     0.5       1       3
              *

5358          KK     76t   BASIN
5359          KM    Subbasin at NEC of Buckeye and 19th Ave
5360          BA   0.272
5361          LG    0.19    0.15    9.70    0.06      36
5362          UC   0.823   0.545
5363          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5364          UA     100
              *

5365          KK  BD76sP RETRIEVE
5366          KM    Retrieve diverted pipe flow from D76sP.
5367          DR   D76sP
              *

5368          KK   P76sS   ROUTE
5369          KM    Route pipe flow from 19th ave/SPRR to subbasin 76t.
5370          RK    3000  0.0031   0.015            CIRC    6.00
              *
                                    HEC-1 INPUT                                          PAGE150

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
5371          KK  BD76sS RETRIEVE
5372          KM    Retrieve diverted surface flow from D76sS.
5373          DR   D76sS
              *

5374          KK   R76sS   ROUTE
5375          KM    Route surface flow south from Subbasin 76s to 76t.
5376          RS       3    FLOW      -1
5377          RC   0.050   0.016   0.050    2800  0.0033
5378          RX       0     0.8      32    78.4    81.6     128   159.2     160
5379          RY       3       1     0.5       0       0     0.5       1       3
              *

5380          KK   C76sS COMBINE
5381          KM    Combine hydrographs R76sS and P76sS.
5382          HC       2   13.28
              *

5383          KK    C76t COMBINE
5384          KM    Combine hydrographs C76sS, 76t, and R72tW.
5385          HC       3   15.10
              *

5386          KK    D76t  DIVERT
5387          KM    Divert 297 cfs into pipe (south) (249 cfs + 48 cfs).
5388          DT   D76tP
5389          DI       0     100     297   10000
5390          DQ       0     100     297     297
              *

5391          KK   D76tW  DIVERT
5392          KM    Divert 53% of surface flow to south.
5393          DT   D76tS
5394          DI       0     100    1000   10000
5395          DQ       0      53     530    5300
              *

5396          KK   R76tW   ROUTE
5397          KM    Route surface flow west from Subbasin 76t to 80t.
5398          RS       3    FLOW      -1
5399          RC   0.050   0.016   0.050    2640  0.0015
5400          RX       0    1.55      62   151.9   158.1     248  308.45     310
5401          RY       3       1     0.5       0       0     0.5       1       3
              *

5402          KK     80t   BASIN
5403          KM    Subbasin at NEC of Buckeye and I-17
5404          BA   0.252
5405          LG    0.19    0.25    5.80    0.24      35
5406          UC   0.774   0.551
5407          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5408          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5409          KK    C80t COMBINE
5410          KM    Combine flows of 80t, c80qS, and R76tW
5411          HC       3   16.24
              *

5412          KK    D80t  DIVERT
5413          KM    Divert 364 cfs into pipe (south).
5414          DT   D80tP
5415          DI       0     100     364   10000
5416          DQ       0     100     364     364
              *

5417          KK   R80tS   ROUTE
5418          KM    Route surface flow south from Subbasin 80t to 8ou.
5419          RS       2    FLOW      -1
5420          RC   0.050   0.016   0.050    2100  0.0048
5421          RX       0       1      40      98     102     160     199     200
5422          RY       3       1     0.5       0       0     0.5       1       3
              *

5423          KK     52u   BASIN
5424          KM    Subbasin at NEC of I-17 and 16th St
5425          BA   0.391
5426          LG    0.27    0.25    4.80    0.34      13
5427          UC   1.008   0.586
5428          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5429          UA     100
              *
```

```
5430          KK  BD52tS RETRIEVE
5431          KM    Retrieve diverted surface flow from D52tS.
5432          DR   D52tS
              *

5433          KK   R52tS   ROUTE
5434          KM    Route surface flow south from Subbasin 52t to 52u.
5435          RS       5    FLOW      -1
5436          RC   0.050   0.016   0.050    3530  0.0023
5437          RX       0     0.8      32    78.4    81.6     128   159.2     160
5438          RY       3       1     0.5       0       0     0.5       1       3
              *

5439          KK    C52u COMBINE
5440          KM    Combine hydrographs R52tS and 52u.
5441          HC       2    1.35
              *

5442          KK    S52u STORAGE
5443          KM    Online detention basin, 68 ac-ft.
5444          RS       1    STOR       0
5445          SV       0       8      21      35      50      68      90
5446          SE       0       2       4       6       8      10      12
5447          SL     1.0   12.56    0.62     0.5
5448          SS      10     200     2.7     1.5
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5449          KK  BD52tP RETRIEVE
5450          KM    Retrieve diverted pipe flow from D52tP.
5451          DR   D52tP
              *

5452          KK   P52tS   ROUTE
5453          KM    Route pipe flow from 16th st/Buckeye to subbasin 52u.
5454          RK    3550  0.0038   0.015            CIRC    6.50
              *

5455          KK   CC52u COMBINE
5456          KM    Combine hydrographs S52u and P52tS.
5457          HC       2    1.35
              *

5458          KK    D52u  DIVERT
5459          KM    Divert 281 cfs into pipe (south).
5460          DT   D52uP
5461          DI       0     100     281   10000
5462          DQ       0     100     281     281
              *

5463          KK   D52uW  DIVERT
5464          KM    Divert 32% of surface flow to south.
5465          DT   D52uS
5466          DI       0     100    1000   10000
5467          DQ       0      32     320    3200
              *

5468          KK   R52uW   ROUTE
5469          KM    Route surface flow west from Subbasin 52u to 56u.
5470          RS       2    FLOW      -1
5471          RC   0.050   0.016   0.050    2660  0.0015
5472          RX       0     0.8      32    78.4    81.6     128   159.2     160
5473          RY       3       1     0.5       0       0     0.5       1       3
              *

5474          KK     56u   BASIN
5475          KM    Subbasin at NEC of I-17 and 12th St
5476          BA   0.326
5477          LG    0.22    0.25    4.70    0.38      23
5478          UC   1.067   0.661
5479          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5480          UA     100
              *

5481          KK  BD56tS RETRIEVE
5482          KM    Retrieve diverted surface flow from D56tS.
5483          DR   D56tS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
5484          KK   R56tS   ROUTE
5485          KM    Route surface flow south from Subbasin 56t to 56u.
5486          RS       2    FLOW      -1
5487          RC   0.050   0.016   0.050    3400  0.0017
5488          RX       0     1.3      52   127.4   132.6     208   258.7     260
5489          RY       3       1     0.5       0       0     0.5       1       3
              *

5490          KK    C56u COMBINE
5491          KM    Combine hydrographs R56tS, 56u, and R52uW.
5492          HC       3    2.46
              *

5493          KK    S56u STORAGE
5494          KM    Regional Online Detention Basin, 4 ac-ft.
5495          RS       1    STOR       0
5496          SV       0       4      12
5497          SE       0       2       4
5498          SL    0.33   0.785    0.62     0.5
5499          SS       2     400     2.7     1.5
              *

5500          KK  BD56tP RETRIEVE
5501          KM    Retrieve diverted pipe flow from D56tP.
5502          DR   D56tP
              *

5503          KK   P56tS   ROUTE
5504          KM    Route pipe flow from 12th st/Buckeye to subbasin 56u.
5505          RK    3300  0.0060   0.015            CIRC    8.00
              *

5506          KK   CC56u COMBINE
5507          KM    Combine hydrographs S56u and P56tS.
5508          HC       2    2.46
              *

5509          KK    D56u  DIVERT
5510          KM    Divert 612 cfs into pipe (south).
5511          DT   D56uP
5512          DI       0     100     612   10000
5513          DQ       0     100     612     612
              *

5514          KK   D56uW  DIVERT
5515          KM    Divert 21% of surface flow to south.
5516          DT   D56uS
5517          DI       0     100    1000   10000
5518          DQ       0      21     210    2100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5519          KK   R56uW   ROUTE
5520          KM    Route surface flow west from Subbasin 56u to 60u.
5521          RS       6    FLOW      -1
5522          RC   0.050   0.016   0.050    2660  0.0010
5523          RX       0     0.8      32    78.4    81.6     128   159.2     160
5524          RY       3       1     0.5       0       0     0.5       1       3
              *

5525          KK     60u   BASIN
5526          KM    Subbasin at NEC of I-17 and 7th St
5527          BA   0.285
5528          LG    0.44    0.25    6.00    0.22      22
5529          UC   0.945   0.600
5530          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5531          UA     100
              *

5532          KK  BD60tS RETRIEVE
5533          KM    Retrieve diverted surface flow from D60tS.
5534          DR   D60tS
              *

5535          KK   R60tS   ROUTE
5536          KM    Route surface flow south from Subbasin 60t to 60u.
5537          RS       5    FLOW      -1
5538          RC   0.050   0.016   0.050    3175  0.0013
5539          RX       0    0.75      30    73.5    76.5     120  149.25     150
5540          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
5541          KK    C60u COMBINE
5542          KM    Combine hydrographs R60tS, 60u, and R56uW.
5543          HC       3    3.68
              *

5544          KK    S60u STORAGE
5545          KM    Regional online detention, 1 ac-ft.
5546          RS       1    STOR       0
5547          SV       0     0.3     0.6       1       2
5548          SE       0       2       4       6       8
5549          SQ       0      45      90     145     290
              *

5550          KK    D60u  DIVERT
5551          KM    Divert 124 cfs into pipe (south).
5552          DT   D60uP
5553          DI       0     100     124   10000
5554          DQ       0     100     124     124
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5555          KK   D60uW  DIVERT
5556          KM    Divert 33% of surface flow to south.
5557          DT   D60uS
5558          DI       0     100    1000   10000
5559          DQ       0      33     330    3300
              *

5560          KK   R60uW   ROUTE
5561          KM    Route surface flow west from Subbasin 60u to 64u.
5562          RS       4    FLOW      -1
5563          RC   0.050   0.016   0.050    2640  0.0015
5564          RX       0    0.75      30    73.5    76.5     120  149.25     150
5565          RY       3       1     0.5       0       0     0.5       1       3
              *

5566          KK     64u   BASIN
5567          KM    Subbasin at NEC of I-17 and Central
5568          BA   0.296
5569          LG    0.19    0.23    6.20    0.21      36
5570          UC   0.928   0.558
5571          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5572          UA     100
              *

5573          KK  BD64tP RETRIEVE
5574          KM    Retrieve diverted pipe flow from D64tP.
5575          DR   D64tP
              *

5576          KK   P64tS  ROUTE
5577          KM    Route pipe flow from subbasin 64t to subbasin 64u.
5578          KM    Two pipe equivalent D = 8.5'
5579          RK    3100  0.0035   0.015            CIRC     8.5
              *

5580          KK  BD64tS RETRIEVE
5581          KM    Retrieve diverted surface flow from D64tS.
5582          DR   D64tS
              *

5583          KK   R64tS   ROUTE
5584          KM    Route surface flow south from Subbasin 64t to 64u.
5585          RS       3    FLOW      -1
5586          RC   0.050   0.016   0.050    3100  0.0035
5587          RX       0     1.3      52   127.4   132.6     208   258.7     260
5588          RY       3       1     0.5       0       0     0.5       1       3
              *

5589          KK   C64tS COMBINE
5590          KM    Combine hydrographs R64tS and P64tS.
5591          HC       2    3.61
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5592          KK    C64u COMBINE
5593          KM    Combine hydrographs C64tS, 64u, and R60uW.
5594          HC       3    4.91
              *
```

```
5595          KK    D64u  DIVERT
5596          KM    Divert 0.0 cfs into ADOT west Tunnel (assuming no connection).
5597          DT  D64uPT
5598          DI       0     100    1000   10000
5599          DQ       0       0       0       0
              *

5600          KK   D64u1  DIVERT
5601          KM    Divert 375 cfs into pipe (south).
5602          DT   D64uP
5603          DI       0     100     375    1000   10000
5604          DQ       0     100     375     375     375
              *

5605          KK   D64uW  DIVERT
5606          KM    Divert 25% of surface flow to south.
5607          DT   D64uS
5608          DI       0     100    1000   10000
5609          DQ       0      25     250    2500
              *

5610          KK   R64uW   ROUTE
5611          KM    Route surface flow west from Subbasin 64u to 68u.
5612          RS       3    FLOW      -1
5613          RC   0.050   0.016   0.050    2650  0.0015
5614          RX       0     1.3      52   127.4   132.6     208   258.7     260
5615          RY       3       1     0.5       0       0     0.5       1       3
              *

5616          KK     68u   BASIN
5617          KM    Subbasin at NEC of I-17 and 7th Ave
5618          BA   0.280
5619          LG    0.20    0.15    8.80    0.08      32
5620          UC   0.909   0.575
5621          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5622          UA     100
              *

5623          KK  BD68tP RETRIEVE
5624          KM    Retrieve diverted pipe flow from D68tP.
5625          DR   D68tP
              *

5626          KK   P68tS   ROUTE
5627          KM    Route pipe flow from subbasin 68t to subbasin 68u.
5628          RK    2750  0.0030   0.015            CIRC    5.00
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5629          KK  BD68tS RETRIEVE
5630          KM    Retrieve diverted surface flow from D68tS.
5631          DR   D68tS
              *

5632          KK   R68tS   ROUTE
5633          KM    Route surface flow south from Subbasin 68t to 68u.
5634          RS       2    FLOW      -1
5635          RC   0.050   0.016   0.050    2800  0.0035
5636          RX       0     1.3      52   127.4   132.6     208   258.7     260
5637          RY       3       1     0.5       0       0     0.5       1       3
              *

5638          KK   C68tS COMBINE
5639          KM    Combine hydrographs R68tS and P68tS.
5640          HC       2    4.39
              *

5641          KK    C68u COMBINE
5642          KM    Combine hydrographs 68u, R64uW, and C68tS.
5643          HC       3    5.97
              *

5644          KK    D68u  DIVERT
5645          KM    Divert 146 cfs into pipe (south).
5646          DT   D68uP
5647          DI       0     100     146   10000
5648          DQ       0     100     146     146
              *

5649          KK   D68uW  DIVERT
5650          KM    Divert 21% of surface flow to south.
5651          DT   D68uS
5652          DI       0     100    1000   10000
```

```
5653          DQ       0      21     210    2100
              *

5654          KK   R68uW   ROUTE
5655          KM    Route surface flow west from Subbasin 68u to 72u.
5656          RS       3    FLOW      -1
5657          RC   0.050   0.016   0.050    2640  0.0015
5658          RX       0     0.8      32    78.4    81.6     128   159.2     160
5659          RY       3       1     0.5       0       0     0.5       1       3
              *

5660          KK     72u   BASIN
5661          KM    Subbasin at NEC of I-17 and 15th Ave
5662          BA   0.257
5663          LG    0.27    0.15    9.70    0.06      24
5664          UC   0.871   0.564
5665          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5666          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5667          KK    C72u COMBINE
5668          KM    Combine hydrographs 72u and R68uW.
5669          HC       2    6.23
              *

5670          KK  BD72tP RETRIEVE
5671          KM    Retrieve diverted pipe flow from D72tP.
5672          DR   D72tP
              *

5673          KK  D72tP1  DIVERT
5674          KM    Divert flow into pipe (south).
5675          DT  D72tP2
5676          DI       0     714     800
5677          DQ       0     281     315
              *

5678          KK  P72tS1  ROUTE
5679          KM    Route pipe flow from subbasin 72t to subbasin 72u.
5680          RK    2700  0.0030   0.015            CIRC     8.0
              *

5681          KK  B72tP2 RETRIEVE
5682          KM    Retrieve diverted pipe flow from D72tP2.
5683          DR  D72tP2
              *

5684          KK  P72tS2  ROUTE
5685          KM    Route pipe flow from subbasin 72t to subbasin 72u.
5686          RK    2700  0.0031   0.015            CIRC     6.8
              *

5687          KK   B72tS RETRIEVE
5688          KM    Retrieve diverted surface flow from D72tS.
5689          DR   D72tS
              *

5690          KK   R72tS   ROUTE
5691          KM    Route surface flow south from Subbasin 72t to 72u.
5692          RS       3    FLOW      -1
5693          RC   0.050   0.016   0.050    2820  0.0021
5694          RX       0     2.3      92   225.4   234.6     368   457.7     460
5695          RY       3       1     0.5       0       0     0.5       1       3
              *

5696          KK   C72tS COMBINE
5697          KM    Combine hydrographs R72tS, P72tS1, and P72tS2.
5698          HC       3    6.23
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5699          KK   CC72u COMBINE
5700          KM    Combine hydrographs C72tS and C72u.
5701          HC       2    8.06
              *

5702          KK    D72u  DIVERT
5703          KM    Divert 714 cfs into pipe (south) (433 cfs + 281 cfs).
5704          DT   D72uP
```

```
5705          DI       0     100     714   10000
5706          DQ       0     100     714     714
              *

5707          KK   D72uW  DIVERT
5708          KM    Divert 31% of surface flow to south.
5709          DT   D72uS
5710          DI       0     100    1000   10000
5711          DQ       0      31     310    3100
              *

5712          KK   R72uW   ROUTE
5713          KM    Route surface flow west from Subbasin 72u to 76u.
5714          RS       3    FLOW      -1
5715          RC   0.050   0.016   0.050    2640  0.0015
5716          RX       0    1.05      42   102.9   107.1     168  208.95     210
5717          RY       3       1     0.5       0       0     0.5       1       3
              *

5718          KK  BD76tP RETRIEVE
5719          KM    Retrieve diverted pipe flow from D76tP.
5720          DR   D76tP
              *

5721          KK  D76tP1  DIVERT
5722          KM    Divert 297 cfs into pipe (south).
5723          DT  D76tP2
5724          DI       0     297     300
5725          DQ       0      48      49
              *

5726          KK  P76tS1  ROUTE
5727          KM    Route pipe flow from subbasin 76t to subbasin 76u.
5728          RK    3000  0.0030   0.015            CIRC    6.50
              *

5729          KK  B76tP2 RETRIEVE
5730          KM    Retrieve diverted pipe flow from D76tP2.
5731          DR  D76tP2
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5732          KK  P76tS2  ROUTE
5733          KM    Route pipe flow from subbasin 76t to subbasin 76u.
5734          RK    3000  0.0030   0.015            CIRC     3.5
              *

5735          KK  BD76tS RETRIEVE
5736          KM    Retrieve diverted surface flow from D76tS.
5737          DR   D76tS
              *

5738          KK   R76tS   ROUTE
5739          KM    Route surface flow south from Subbasin 76t to 76u.
5740          RS       3    FLOW      -1
5741          RC   0.050   0.016   0.050    2665  0.0015
5742          RX       0     1.3      52   127.4   132.6     208   258.7     260
5743          RY       3       1     0.5       0       0     0.5       1       3
              *

5744          KK   C76tS COMBINE
5745          KM    Combine hydrographs R76tS, P76tS1, and P76tS2.
5746          HC       3   15.10
              *

5747          KK     76u   BASIN
5748          KM    Subbasin at NEC of I-17 and 19th Ave
5749          BA   0.283
5750          LG    0.32    0.15    9.70    0.06      23
5751          UC   0.904   0.545
5752          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5753          UA     100
              *

5754          KK    C76u COMBINE
5755          KM    Combine hydrographs 76u, C76tS, and R72uW.
5756          HC       3   17.22
              *

5757          KK    D76u  DIVERT
5758          KM    Divert 297 cfs into pipe (south) (48 cfs to 76v, 248 cfs to 80v).
5759          DT   D76uP
5760          DI       0     100     297   10000
```

```
5761          DQ       0     100     297     297
              *

5762          KK   D76uW  DIVERT
5763          KM    Divert 0.0% of surface flow to south.
5764          DT   D76uS
5765          DI       0     100    1000   10000
5766          DQ       0     0.0     0.0     0.0
              *
1                                   HEC-1 INPUT                                                    PAGE161

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5767          KK   R76uW   ROUTE
5768          KM    Route surface flow west from Subbasin 76u to 80u.
5769          RS       2    FLOW      -1
5770          RC   0.050   0.016   0.050    2370  0.0025
5771          RX       0    0.75      30    73.5    76.5     120  149.25     150
5772          RY       3       1     0.5       0       0     0.5       1       3
              *

5773          KK     80u   BASIN
5774          KM    Subbasin at NEC of Durango and I-17
5775          BA   0.249
5776          LG    0.16    0.15    8.00    0.11      46
5777          UC   0.738   0.507
5778          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5779          UA     100
              *

5780          KK    C80u COMBINE
5781          KM    Combine flows of 80u, R80tS, and R76uW
5782          HC       3   18.61
              *

5783          KK  BD80tP RETRIEVE
5784          KM    Retrieve diverted pipe flow from D80tP.
5785          DR   D80tP
              *

5786          KK   P80tS   ROUTE
5787          KM    Route pipe flow from I-17/Buckeye to subbasin 80u.
5788          RK    2100  0.0030   0.015            CIRC    7.50
              *

5789          KK  BD80qW RETRIEVE
5790          KM    Retrieve diverted flow from D80qW.
5791          DR   D80qW
              *

5792          KK   CC80u COMBINE
5793          KM    Combine flows of C80u,D80qW, and P80tS
5794          HC       3   18.61
              *

5795          KK   S-I17 STORAGE
5796          KM    I-17 Depressed Segment and East Durango Curve ponding Areas
5797          KM    Online Regional Detention Basin, 320 ac-ft.
5798          RS       1    STOR       0
5799          SV       0       6      29      45     112     169     320     360     396     425
5800          SE       0       2       6       8      12      14      16      17    17.6      18
5801          SQ     0.0     183     316     365     448     483     517     674    2224    4564
              *
1                                   HEC-1 INPUT                                                    PAGE162

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5802          KK    D80u  DIVERT
5803          KM    Divert 509 cfs into pipe (west).
5804          DT   D80uP
5805          DI       0     100     509   10000
5806          DQ       0     100     509     509
              *

5807          KK   R80uW   ROUTE
5808          KM    Route surface flow west from Subbasin 80u to 84u.
5809          RS       2    FLOW      -1
5810          RC   0.050   0.016   0.050    2760  0.0014
5811          RX       0     1.0      40      98     102     160     199     200
5812          RY       3       1     0.5       0       0     0.5       1       3
              *

5813          KK     84t   BASIN
5814          KM    Subbasin at NEC of Buckeye and 27th Ave
```

```
5815          BA   0.273
5816          LG    0.14    0.15    7.60    0.13      55
5817          UC   0.826   0.653
5818          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5819          UA     100
              *

5820          KK   P84tN  INFLOW
5821          KM   Inflow from storm drain north of SPRR along 27th Avenue.
5822          KM   Maximum flow 252 cfs.
5823          IN      60
5824          BA     0.5
5825          QI       0       1       2       3       4       4       5       5       6       6
5826          QI       8      10      17     252      74      21       9       7       6       5
5827          QI       5       4       1     0.5     0.1
              *

5828          KK    C84t COMBINE
5829          KM    Combine hydrographs P84tN and 80t.
5830          HC       2    0.77
              *

5831          KK    D84t  DIVERT
5832          KM    Divert 252 cfs into pipe (south).
5833          DT   D84tP
5834          DI       0     100     252   10000
5835          DQ       0     100     252     252
              *

5836          KK   D84tS  DIVERT
5837          KM    Divert 13% of surface flow to west.
5838          DT   D84tW
5839          DI       0     100    1000   10000
5840          DQ       0      13     130    1300
              *
1                                          HEC-1 INPUT                                          PAGE163

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5841          KK   R84tS   ROUTE
5842          KM    Route surface flow south from Subbasin 84t to 84u.
5843          RS       2    FLOW      -1
5844          RC   0.050   0.016   0.050    2760  0.0018
5845          RX       0    1.05      42   102.9   107.1     168  208.95     210
5846          RY       3       1     0.5       0       0     0.5       1       3
              *

5847          KK     84u   BASIN
5848          KM    Subbasin at NEC of Durango and 27th Ave
5849          BA   0.263
5850          LG    0.61    0.15    8.00    0.11      41
5851          UC   0.886   0.574
5852          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5853          UA     100
              *

5854          KK    C84u COMBINE
5855          KM    Combine hydrographs R84tS, 84u, and R80uW.
5856          HC       3    9.04
              *

5857          KK    S84u STORAGE
5858          KM    Online Regional Detention Basin, 3 ac-ft.
5859          RS       1    STOR       0
5860          SV       0       3      13
5861          SE       0       2       4
5862          SQ       0      30    3000
              *

5863          KK  BD84tP RETRIEVE
5864          KM    Retrieve diverted pipe flow from D84tP.
5865          DR   D84tP
              *

5866          KK   P84tS   ROUTE
5867          KM    Route pipe flow from I-17/Buckeye to subbasin 84u.
5868          RK    2650  0.0031   0.015            CIRC    6.50
              *

5869          KK   CC84u COMBINE
5870          KM    Combine hydrographs P84tS and S84u.
5871          HC       2    9.04
              *

5872          KK    D84u  DIVERT
```

```
5873          KM    Divert 252 cfs into pipe (south).
5874          DT   D84uP
5875          DI        0      100      252    10000
5876          DQ        0      100      252      252
              *
                                        HEC-1 INPUT                                                    PAGE164

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5877          KK   D84uW  DIVERT
5878          KM    Divert 20% of surface flow to south.
5879          DT   D84uS
5880          DI        0      100     1000    10000
5881          DQ        0       20      200     2000
              *

5882          KK   R84uW   ROUTE
5883          KM    Route surface flow west from Subbasin 84u to 88u.
5884          RS        3     FLOW       -1
5885          RC    0.050    0.016    0.050     2760   0.0022
5886          RX        0     1.05       42    102.9    107.1      168   208.95      210
5887          RY        3        1      0.5        0        0      0.5        1        3
              *

5888          KK     88t   BASIN
5889          KM    Subbasin at NEC of Buckeye and 35th Ave
5890          BA    0.259
5891          LG     0.18     0.25     6.00     0.23       44
5892          UC    0.964    0.798
5893          UA        0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
5894          UA      100
              *

5895          KK  BD84tW RETRIEVE
5896          KM    Retrieve diverted surface flow from D84tW.
5897          DR   D84tW
              *

5898          KK   R84tW   ROUTE
5899          KM    Route surface flow west from Subbasin 84t to 88t.
5900          RS        4     FLOW       -1
5901          RC    0.050    0.016    0.050     2760   0.0011
5902          RX        0      0.5       20       49       51       80     99.5      100
5903          RY        3        1      0.5        0        0      0.5        1        3
              *

5904          KK    C88t COMBINE
5905          KM    Combine hydrographs 88t and R84tW.
5906          HC        2     1.03
              *

5907          KK   D88tS  DIVERT
5908          KM    Divert 30% of surface flow to west.
5909          DT   D88tW
5910          DI        0      100     1000    10000
5911          DQ        0       30      300     3000
              *
1                                       HEC-1 INPUT                                                    PAGE165

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5912          KK   R88tS   ROUTE
5913          KM    Route surface flow south from Subbasin 88t to 88u.
5914          RS        3     FLOW       -1
5915          RC    0.050    0.016    0.050     2760   0.0036
5916          RX        0     1.05       42    102.9    107.1      168   208.95      210
5917          RY        3        1      0.5        0        0      0.5        1        3
              *

5918          KK     88u   BASIN
5919          KM    Subbasin at NEC of Durango and 35th Ave
5920          BA    0.250
5921          LG     0.31     0.15     8.40     0.09       40
5922          UC    0.858    0.715
5923          UA        0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
5924          UA      100
              *

5925          KK    C88u COMBINE
5926          KM    Combine hydrographs 88u, R84uW, and R88tS.
5927          HC        3     9.55
              *

5928          KK    D88u  DIVERT
```

```
5929          KM    Divert 36 cfs into pipe (west).
5930          DT   D88uP
5931          DI       0      36    1000   10000
5932          DQ       0      36      36      36
              *

5933          KK   D88uW  DIVERT
5934          KM    Divert 76% of surface flow to south.
5935          DT   D88uS
5936          DI       0     100    1000   10000
5937          DQ       0      76     760    7600
              *

5938          KK   R88uW   ROUTE
5939          KM    Route surface flow west from Subbasin 88u to 92u.
5940          RS       2    FLOW      -1
5941          RC   0.050   0.016   0.050    2760  0.0014
5942          RX       0    0.75      30    73.5    76.5     120  149.25     150
5943          RY       3       1     0.5       0       0     0.5       1       3
              *

5944          KK  BD88uP RETRIEVE
5945          KM    Retrieve diverted pipe flow from D88uP.
5946          DR   D88uP
              *
1                                        HEC-1 INPUT                                                    PAGE166

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5947          KK   P88uW   ROUTE
5948          KM    Route pipe flow from subbasin 88u to subbasin 92u.
5949          RK    2600  0.0039   0.015            CIRC     3.0
              *

5950          KK   C88uW COMBINE
5951          KM    Combine hydrographs R88uW and P88uW.
5952          HC       2    9.55
              *

5953          KK     92t   BASIN
5954          KM    Subbasin at NEC of Buckeye and 43rd Ave
5955          BA   0.175
5956          LG    0.21    0.25    5.20    0.32      32
5957          UC   0.939   0.856
5958          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5959          UA     100
              *

5960          KK  BD88tW RETRIEVE
5961          KM    Retrieve diverted surface flow from D88tW.
5962          DR   D88tW
              *

5963          KK   R88tW   ROUTE
5964          KM    Route surface flow west from Subbasin 88t to 92t.
5965          RS       3    FLOW      -1
5966          RC   0.050   0.016   0.050    1990   0.002
5967          RX       0    0.75      30    73.5    76.5     120  149.25     150
5968          RY       3       1     0.5       0       0     0.5       1       3
              *

5969          KK    C92t COMBINE
5970          KM    Combine hydrographs R88tW and 92t.
5971          HC       2    1.21
              *

5972          KK   R92tS   ROUTE
5973          KM    Route surface flow south from Subbasin 92t to 92u.
5974          RS       3    FLOW      -1
5975          RC   0.050   0.016   0.050    2760  0.0040
5976          RX       0     0.5      20      49      51      80    99.5     100
5977          RY       3       1     0.5       0       0     0.5       1       3
              *

5978          KK     92u   BASIN
5979          KM    Subbasin at NEC of Durango and 43rd Ave
5980          BA   0.249
5981          LG    0.16    0.25    6.00    0.23      44
5982          UC   0.848   0.708
5983          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5984          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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5985          KK   P92uN  INFLOW
5986          KM   Inflow from storm drain north of Durango Street along 35th Avenue.
5987          KM   Maximum flow 141 cfs.
5988          IN      60
5989          BA     2.5
5990          QI     0.0       1       2       3       3       4       4       5       5       5
5991          QI       7       9      30     141      69      27       8       6       5       5
5992          QI       4       3       2     0.5     0.0
              *

5993          KK    C92u COMBINE
5994          KM    Combine flows of 92u, C88uW, P92uN, and R92tS
5995          HC       4   10.17
              *

5996          KK    D92u  DIVERT
5997          KM    Divert 201 cfs into pipe (south).
5998          DT   D92uP
5999          DI       0     100     201   10000
6000          DQ       0     100     201     201
              *

6001          KK   R92uS   ROUTE
6002          KM    Route surface flow south from Subbasin 92u to 92v.
6003          RS       1    FLOW      -1
6004          RC   0.050   0.016   0.050    1650  0.0048
6005          RX       0     0.5      20      49      51      80    99.5     100
6006          RY       3       1     0.5       0       0     0.5       1       3
              *

6007          KK   B92uP RETRIEVE
6008          KM    Retrieve diverted pipe flow from D92uP.
6009          DR   D92uP
              *

6010          KK   P92uS   ROUTE
6011          KM    Route pipe flow from subbasin 92u to subbasin 92v.
6012          RK    1500  0.0030   0.015            CIRC    6.00
              *

6013          KK   C92uS COMBINE
6014          KM    Combine hydrographs R92uS and P92uS.
6015          HC       2   10.17
              *

6016          KK     76v   BASIN
6017          KM    Subbasin at NEC of Lower Buckeye and 19th Ave
6018          BA   0.240
6019          LG    0.21    0.25    4.90    0.40      41
6020          UC   0.924   0.759
6021          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6022          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6023          KK   B76uP RETRIEVE
6024          KM    Retrieve diverted pipe flow from D76uP.
6025          DR   D76uP
              *

6026          KK  D76uP2  DIVERT
6027          KM    Divert 297 cfs into pipes (249 cfs to west, 48 cfs to south).
6028          DT  D76uP1
6029          DI       0     297    1000
6030          DQ       0     249     249
              *

6031          KK  P76uS2  ROUTE
6032          KM    Route pipe flow from 19th ave/I-17 to subbasin 76v.
6033          RK    2300  0.0030   0.015            CIRC    3.50
              *

6034          KK  BD76uS RETRIEVE
6035          KM    Retrieve diverted flow from D76uS.
6036          DR   D76uS
              *

6037          KK   R76uS   ROUTE
6038          KM    Route surface flow south from Subbasin 76u to 76v.
6039          RS       2    FLOW      -1
6040          RC   0.050   0.016   0.050    2640  0.0023
```

```
6041          RX       0     0.5      20      49      51      80    99.5     100
6042          RY       3       1     0.5       0       0     0.5       1       3
              *

6043          KK   C76uS COMBINE
6044          KM    Combine hydrographs P76uS2 and R76uS.
6045          HC       2   17.22
              *

6046          KK    C76v COMBINE
6047          KM    Combine hydrographs 76v and C76uS.
6048          HC       2    8.24
              *

6049          KK    D76v  DIVERT
6050          KM    Divert 109 cfs into pipe (south).
6051          DT   D76vP
6052          DI       0     100     109   10000
6053          DQ       0     100     109     109
              *

6054          KK   D76vW  DIVERT
6055          KM    Divert 53% of surface flow to south.
6056          DT   D76vS
6057          DI       0     100    1000   10000
6058          DQ       0      53     530    5300
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6059          KK   R76vW   ROUTE
6060          KM    Route surface flow west from Subbasin 76v to 80v.
6061          RS       6    FLOW      -1
6062          RC   0.050   0.016   0.050    2570  0.0008
6063          RX       0     0.5      20      49      51      80    99.5     100
6064          RY       3       1     0.5       0       0     0.5       1       3
              *

6065          KK     80v   BASIN
6066          KM    Subbasin at NEC of Lower Buckeye and 23rd Ave
6067          BA   0.231
6068          LG    0.16    0.15    8.00    0.12      59
6069          UC   0.798   0.594
6070          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6071          UA     100
              *

6072          KK  B76uP1 RETRIEVE
6073          KM    Retrieve diverted pipe flow from D76uP1.
6074          DR  D76uP1
              *

6075          KK  P76uS1  ROUTE
6076          KM    Route pipe flow from subbasin 76u to subbasin 80v.
6077          RK    4000  0.0030   0.015            CIRC     6.5
              *

6078          KK    C80v COMBINE
6079          KM    COmbine flows of 80v, P76uS1, and R76vW
6080          HC       3    8.23
              *

6081          KK    D80v  DIVERT
6082          KM    Divert 249 cfs into pipe (southwest).
6083          DT   D80vP
6084          DI       0     100     249   10000
6085          DQ       0     100     249     249
              *

6086          KK   D80vW  DIVERT
6087          KM    Divert 56% of surface flow to south.
6088          DT   D80vS
6089          DI       0     100    1000   10000
6090          DQ       0      56     560    5600
              *

6091          KK   R80vW   ROUTE
6092          KM    Route surface flow west from Subbasin 80v to 84v.
6093          RS       8    FLOW      -1
6094          RC   0.050   0.016   0.050    2640  0.0004
6095          RX       0    1.25      50   122.5   127.5     200  248.75     250
6096          RY       3       1     0.5       0       0     0.5       1       3
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6097          KK     84v   BASIN
6098          KM    Subbasin at NEC of Lower Buckeye and 27th Ave
6099          BA   0.254
6100          LG    1.75    0.15    9.70    0.07      35
6101          UC   0.973   0.629
6102          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6103          UA     100
              *

6104          KK  BD80uP RETRIEVE
6105          KM    Retrieve diverted pipe flow from D80uP.
6106          DR   D80uP
              *

6107          KK   P80uS   ROUTE
6108          KM    Route pipe flow from subbasin 80u to subbasin 84v.
6109          RK    4000  0.0030   0.015            CIRC     8.5
              *

6110          KK    C84v COMBINE
6111          KM    Combine hydrographs 84v, P80uS, and R80vW.
6112          HC       3    8.73
              *

6113          KK  BD84uP RETRIEVE
6114          KM    Retrieve diverted pipe flow from D84uP.
6115          DR   D84uP
              *

6116          KK   P84uS   ROUTE
6117          KM    Route pipe flow from subbasin 84u to subbasin 84v.
6118          RK    2600  0.0030   0.015            CIRC   10.33
              *

6119          KK  BD84uS RETRIEVE
6120          KM    Retrieve diverted surface flow from D84uS.
6121          DR   D84uS
              *

6122          KK   R84uS   ROUTE
6123          KM    Route surface flow south from Subbasin 84u to 84v
6124          RS       3    FLOW      -1
6125          RC   0.050   0.016   0.050    2600  0.0023
6126          RX       0    0.75      30    73.5    76.5     120  149.25     150
6127          RY       3       1     0.5       0       0     0.5       1       3
              *

6128          KK   C84uS COMBINE
6129          KM    Combine hydrographs R84uS and P84uS.
6130          HC       2    9.04
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6131          KK   CC84v COMBINE
6132          KM    Combine hydrographs C84uS and C84v.
6133          HC       2    9.76
              *

6134          KK    D84v  DIVERT
6135          KM    Divert 1269 cfs into pipes (252 + 509 + 508).
6136          KM    Flows of 509 and 508 combined.
6137          DT   D84vP
6138          DI       0     100    1000    1269   10000
6139          DQ       0     100    1000    1269    1269
              *

6140          KK   D84vW  DIVERT
6141          KM    Divert 37% of surface flow to south.
6142          DT   D84vS
6143          DI       0     100    1000   10000
6144          DQ       0      37     370    3700
              *

6145          KK   R84vW   ROUTE
6146          KM    Route surface flow west from Subbasin 84v to 88v.
6147          RS       2    FLOW      -1
6148          RC   0.050   0.016   0.050    2760  0.0025
6149          RX       0     0.5      20      49      51      80    99.5     100
6150          RY       3       1     0.5       0       0     0.5       1       3
```

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                *

6151            KK     88v   BASIN
6152            KM    Subbasin at NEC of Lower Buckeye and 35th Ave
6153            BA   0.248
6154            LG    0.20    0.13   10.10    0.05      34
6155            UC   0.959   0.813
6156            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6157            UA     100
                *

6158            KK  BD88uS RETRIEVE
6159            KM    Retrieve diverted surface flow from D88uS.
6160            DR   D88uS
                *

6161            KK   R88uS   ROUTE
6162            KM    Route surface flow south from Subbasin 88u to 88v.
6163            RS       2    FLOW      -1
6164            RC   0.050   0.016   0.050    2760  0.0033
6165            RX       0    0.75      30    73.5    76.5     120  149.25     150
6166            RY       3       1     0.5       0       0     0.5       1       3
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6167            KK    C88v COMBINE
6168            KM    Combine hydrographs 88v, R88uS, and R84vS.
6169            HC       3   10.52
                *

6170            KK    D88v  DIVERT
6171            KM    Divert 51 cfs into pipe (south).
6172            DT   D88vP
6173            DI       0      51    1000   10000
6174            DQ       0      51      51      51
                *

6175            KK   R88vW   ROUTE
6176            KM    Route surface flow west from Subbasin 88v to 92v.
6177            RS       3    FLOW      -1
6178            RC   0.050   0.016   0.050    2750  0.0011
6179            RX       0    1.05      42   102.9   107.1     168  208.95     210
6180            RY       3       1     0.5       0       0     0.5       1       3
                *

6181            KK     92v   BASIN
6182            KM    Subbasin at NEC of Lower Buckeye and 43rd Ave
6183            BA   0.159
6184            LG    0.10    0.13   10.10    0.05      72
6185            UC   0.675   0.587
6186            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6187            UA     100
                *

6188            KK    C92v COMBINE
6189            KM    Combine flows of C92uS, 92v and R88vW
6190            HC       3   11.30
                *

6191            KK   D92vP  DIVERT
6192            KM    Divert 201 cfs into pipe (west)
6193            DT    D92v
6194            DI       0     201    1000   10000
6195            DQ       0       0     799    9799
                *

6196            KK   P92vS   ROUTE
6197            KM    Route pipe flow from subbasin 92v to subbasin 88w.
6198            RK    4900  0.0030   0.015            CIRC    6.00
                *

6199            KK     88w   BASIN
6200            KM    Subbasin at NEC of Salt River and 43rd Ave
6201            BA   0.599
6202            LG    0.17    0.25    5.10    0.34      40
6203            UC   1.063   0.634
6204            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6205            UA     100
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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6206          KK  BD88vP RETRIEVE
6207          KM    Retrieve diverted pipe flow from D88vP.
6208          DR   D88vP
              *

6209          KK   P88vS   ROUTE
6210          KM    Route pipe flow from subbasin 88v to subbasin 88w.
6211          RK    2600  0.0034   0.015            CIRC     3.5
              *

6212          KK    C88w COMBINE
6213          KM    Combine hydrographs P88vS, P92vS, and 88w.
6214          HC       3   11.90
              *

6215          KK     44v   BASIN
6216          KM   Subbasin at NEC of Salt River and 20th St
6217          BA   0.236
6218          LG    0.21    0.29    2.49    1.68      24
6219          UC   1.021   0.692
6220          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6221          UA     100
              *

6222          KK  BD44sP RETRIEVE
6223          KM    Retrieve diverted pipe flow from D44sP.
6224          DR   D44sP
              *

6225          KK   P44sS   ROUTE
6226          KM    Route pipe flow from 24th st/SPRR to subbasin 44v.
6227          RK    9500  0.0030   0.015            CIRC    6.00
              *

6228          KK    C44v COMBINE
6229          KM    Combine hydrographs 44v and P44sS.
6230          HC       2    4.03
              *

6231          KK  B48oPT RETRIEVE
6232          KM    Retrieve diverted East Tunnel flow from D48oPT.
6233          DR  D48oPT
              *

6234          KK   PT48o   ROUTE
6235          KM    Route East Tunnel flow from 20th st/Moreland to subbasin 48q.
6236          RK    3800  0.0030   0.015            CIRC    21.0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6237          KK  B48qPT RETRIEVE
6238          KM    Retrieve diverted flow to East Tunnel from D48qPT.
6239          DR  D48qPT
              *

6240          KK  CPT48q COMBINE
6241          KM    Combine hydrographs PT48o and D48qPT.
6242          HC       2   16.11
              *

6243          KK   PT48q   ROUTE
6244          KM    Route East Tunnel flow from subbasin 48q to subbasin 48s.
6245          RK    2500   0.003   0.015            CIRC    21.0
              *

6246          KK  B48sPT RETRIEVE
6247          KM    Retrieve diverted flow to East Tunnel from D48sPT.
6248          DR  D48sPT
              *

6249          KK  CPT48s COMBINE
6250          KM    Combine hydrographs PT48q and D48sPT.
6251          HC       2   17.54
              *

6252          KK   PT48s   ROUTE
6253          KM    Route East Tunnel flow from subbasin 48s to subbasin 48v.
6254          RK    9500   0.003   0.015            CIRC   21.00
              *

6255          KK     48v   BASIN
6256          KM    Subbasin at NEC of Salt River and 20th St
```

```
6257          BA   0.299
6258          LG    0.10    0.28    2.59    1.77      68
6259          UC   0.851   0.664
6260          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6261          UA     100
              *

6262          KK    C48v COMBINE
6263          KM    Combine hydrographs 48v and PT48s.
6264          HC       2   17.84
              *

6265          KK  NUL48v COMBINE
6266          KM    Combine hydrographs C48v and C44v.
6267          HC       2   18.08
              *
1                                          HEC-1 INPUT                                          PAGE175

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6268          KK     52v   BASIN
6269          KM   Subbasin at NEC of Salt River and 16th St
6270          BA   0.297
6271          LG    0.22    0.28    2.65    1.41      22
6272          UC   1.070   0.673
6273          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6274          UA     100
              *

6275          KK  BD52uP RETRIEVE
6276          KM    Retrieve diverted pipe flow from D52uP.
6277          DR   D52uP
              *

6278          KK   P52uS   ROUTE
6279          KM    Route pipe flow from 16th st/I-17 to subbasin 52v.
6280          RK    2700  0.0038   0.015            CIRC    6.50
              *

6281          KK  BD52uS RETRIEVE
6282          KM    Retrieve diverted surface flow from D52uS.
6283          DR   D52uS
              *

6284          KK   R52uS   ROUTE
6285          KM    Route surface flow south from Subbasin 52u to 52v.
6286          RS       2    FLOW      -1
6287          RC   0.050   0.016   0.050    3080  0.0026
6288          RX       0     0.5      20      49      51      80    99.5     100
6289          RY       3       1     0.5       0       0     0.5       1       3
              *

6290          KK   C52uS COMBINE
6291          KM    Combine hydrographs R52uS and P52uS.
6292          HC       2    1.35
              *

6293          KK    C52v COMBINE
6294          KM    Combine hydrographs 52v and C52uS.
6295          HC       2    1.64
              *

6296          KK  NUL52v COMBINE
6297          KM    Combine hydrographs C52v and NUL48v.
6298          HC       2   19.72
              *

6299          KK     56v   BASIN
6300          KM    Subbasin at NEC of Salt River and 12th St
6301          BA   0.231
6302          LG    0.20    0.24    4.40    0.47      28
6303          UC   1.012   0.885
6304          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6305          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6306          KK  BD56uP RETRIEVE
6307          KM    Retrieve diverted pipe flow from D56uP.
6308          DR   D56uP
              *
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6309          KK   P56uS   ROUTE
6310          KM    Route pipe flow from subbasin 56u to subbasin 56v.
6311          RK    2500  0.0060   0.015            CIRC    8.00
              *

6312          KK  BD56uS RETRIEVE
6313          KM    Retrieve diverted surface flow from D56uS.
6314          DR   D56uS
              *

6315          KK   R56uS   ROUTE
6316          KM    Route surface flow south from Subbasin 56u to 56v.
6317          RS       4    FLOW      -1
6318          RC   0.050   0.016   0.050    2500  0.0034
6319          RX       0     0.5      20      49      51      80    99.5     100
6320          RY       3       1     0.5       0       0     0.5       1       3
              *

6321          KK   C56uS COMBINE
6322          KM    Combine hydrographs R56uS and P56uS.
6323          HC       2    2.46
              *

6324          KK    C56v COMBINE
6325          KM    Combine hydrographs 56v and C56uS.
6326          HC       2    2.69
              *

6327          KK  NUL56v COMBINE
6328          KM    Combine hydrographs C56v and NUL52v.
6329          HC       2   21.07
              *

6330          KK     60v   BASIN
6331          KM    Subbasin at NEC of Salt River and 7th St
6332          BA   0.228
6333          LG    0.15    0.24    4.90    0.38      43
6334          UC   0.920   0.752
6335          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6336          UA     100
              *

6337          KK  BD60uP RETRIEVE
6338          KM    Retrieve diverted pipe flow from D60uP.
6339          DR   D60uP
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6340          KK   P60uS   ROUTE
6341          KM    Route pipe flow from subbasin 60u to subbasin 60v.
6342          RK    2400  0.0030   0.015            CIRC    5.00
              *

6343          KK  BD60uS RETRIEVE
6344          KM    Retrieve diverted surface flow from D60uS.
6345          DR   D60uS
              *

6346          KK   R60uS   ROUTE
6347          KM    Route surface flow south from Subbasin 60u to 60v.
6348          RS       3    FLOW      -1
6349          RC   0.050   0.016   0.050    2400  0.0034
6350          RX       0     0.5      20      49      51      80    99.5     100
6351          RY       3       1     0.5       0       0     0.5       1       3
              *

6352          KK   C60uS COMBINE
6353          KM    Combine hydrographs R60uS and P60uS.
6354          HC       2    3.68
              *

6355          KK    C60v COMBINE
6356          KM    Combine hydrographs C60uS and 60v.
6357          HC       2    3.91
              *

6358          KK  NUL60v COMBINE
6359          KM    Combine hydrographs C60v and NUL56v.
6360          HC       2   22.51
              *

6361          KK  BPT64o RETRIEVE
6362          KM    Retrieve diverted West Tunnel flow from DPT64o.
```

```
6363          DR  DPT64o
              *

6364          KK  B64qPT RETRIEVE
6365          KM    Retrieve diverted West Tunnel flow from D64qPT.
6366          DR  D64qPT
              *

6367          KK  CPT64q COMBINE
6368          KM    Combine hydrographs DPT64o and D64qPT.
6369          HC       2   22.55
              *

6370          KK   PT64q   ROUTE
6371          KM    Route West Tunnel flow from subbasin 64q to subbasin 64s.
6372          RK    2500   0.003   0.015            CIRC    21.0
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6373          KK  B64sPT RETRIEVE
6374          KM    Retrieve diverted West Tunnel flow from D64sPT.
6375          DR  D64sPT
              *

6376          KK  CPT64s COMBINE
6377          KM    Combine hydrographs D64sPT and PT64q.
6378          HC       2   23.58
              *

6379          KK   PT64s  ROUTE
6380          KM    Route West Tunnel flow from subbasin 64s to subbasin 64t.
6381          RK    2800   0.003   0.015            CIRC    21.0
              *

6382          KK  B64tPT RETRIEVE
6383          KM    Retrieve diverted West Tunnel flow from D64tPT.
6384          DR  D64tPT
              *

6385          KK  CPT64t COMBINE
6386          KM    Combine hydrographs PT64s and D64tPT.
6387          HC       2   24.65
              *

6388          KK   PT64t  ROUTE
6389          KM    Route West Tunnel flow from subbasin 64t to subbasin 64u.
6390          RK    3100  0.003    0.015            CIRC    21.0
              *

6391          KK  B64uPT RETRIEVE
6392          KM    Retrieve diverted pipe flow from D64uPT.
6393          DR  D64uPT
              *

6394          KK  CPT64u COMBINE
6395          KM    Combine hydrographs PT64t and D64uPT.
6396          HC       2   25.95
              *

6397          KK  PT64u  ROUTE
6398          KM    Route West Tunnel flow from subbasin 64u to subbasin 64v.
6399          RK    2000  0.003   0.015             CIRC    21.0
              *

6400          KK     64v   BASIN
6401          KM    Subbasin at NEC of Salt River and Central
6402          BA   0.195
6403          LG    0.10    0.25    4.55    0.49      61
6404          UC   0.817   0.590
6405          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6406          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6407          KK  BD64uP RETRIEVE
6408          KM    Retrieve diverted pipe flow from D64uP.
6409          DR   D64uP
              *

6410          KK   P64uS  ROUTE
```

```
6411          KM    Route pipe flow from subbasin 64u to subbasin 64v.
6412          RK    2000  0.0035   0.015            CIRC     8.0
              *

6413          KK  BD64uS RETRIEVE
6414          KM    Retrieve diverted surface flow from D64uS.
6415          DR   D64uS
              *

6416          KK   R64uS   ROUTE
6417          KM    Route surface flow south from Subbasin 64u to 64v.
6418          RS       3    FLOW      -1
6419          RC   0.050   0.016   0.050    2100  0.0034
6420          RX       0     0.5      20      49      51      80    99.5     100
6421          RY       3       1     0.5       0       0     0.5       1       3
              *

6422          KK   C64uS COMBINE
6423          KM    Combine hydrographs R64uS and P64uS.
6424          HC       2    4.91
              *

6425          KK    C64v COMBINE
6426          KM    Combine hydrographs C64uS, PT64u, and 64v.
6427          HC       3   26.15
              *

6428          KK  NUL64v COMBINE
6429          KM    Combine hydrographs C64v and NUL60v.
6430          HC       2   44.28
              *

6431          KK     68v   BASIN
6432          KM    Subbasin at NEC of Salt River and 7th Ave
6433          BA   0.218
6434          LG    0.19    0.25    4.60    0.42      33
6435          UC   0.998   0.809
6436          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6437          UA     100
              *

6438          KK  BD68uP RETRIEVE
6439          KM    Retrieve diverted pipe flow from D68uP.
6440          DR   D68uP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6441          KK   P68uS   ROUTE
6442          KM    Route pipe flow from Central/I-17 to subbasin 68v.
6443          RK    3300  0.0073   0.015            CIRC    4.50
              *

6444          KK  BD68uS RETRIEVE
6445          KM    Retrieve diverted surface flow from D68uS.
6446          DR   D68uS
              *

6447          KK   R68uS   ROUTE
6448          KM    Route surface flow south from Subbasin 68u to 68v.
6449          RS       3    FLOW      -1
6450          RC   0.050   0.016   0.050    3300  0.0070
6451          RX       0     0.5      20      49      51      80    99.5     100
6452          RY       3       1     0.5       0       0     0.5       1       3
              *

6453          KK   C68uS COMBINE
6454          KM    Combine hydrographs R68uS and P68uS.
6455          HC       2    5.97
              *

6456          KK    C68v COMBINE
6457          KM    Combine hydrographs P68uS and 68v.
6458          HC       2    6.19
              *

6459          KK  NUL68v COMBINE
6460          KM    Combine hydrographs C68v and NUL64v.
6461          HC       2   45.56
              *

6462          KK     72v   BASIN
6463          KM    Subbasin at NEC of Salt River and 15th Ave
6464          BA   0.407
```

```
6465          LG    0.13    0.25    4.40    0.52      59
6466          UC   0.851   0.601
6467          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6468          UA     100
              *

6469          KK  BD72uP RETRIEVE
6470          KM    Retrieve diverted pipe flow from D72uP.
6471          DR   D72uP
              *

6472          KK  D72uP1  DIVERT
6473          KM    Divert 714 cfs into pipe (south) (281 cfs + 433 cfs).
6474          DT  D72uP2
6475          DI       0     714    1000
6476          DQ       0     281     281
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6477          KK  P72uS1  ROUTE
6478          KM    Route pipe flow from subbasin 72u to subbasin 72v.
6479          RK    5000  0.0030   0.015            CIRC    8.00
              *

6480          KK  B72uP2 RETRIEVE
6481          KM    Retrieve diverted pipe flow from D72uP2.
6482          DR  D72uP2
              *

6483          KK  P72uS2  ROUTE
6484          KM    Route pipe flow from subbasin 72u to subbasin 72v.
6485          RK    4500  0.0031   0.015            CIRC     6.8
              *

6486          KK  BD72uS RETRIEVE
6487          KM    Retrieve diverted flow from D72uS.
6488          DR   D72uS
              *

6489          KK   R72uS   ROUTE
6490          KM    Route surface flow south from Subbasin 72u to 72v.
6491          RS       5    FLOW      -1
6492          RC   0.050   0.016   0.050    4500  0.0023
6493          RX       0     0.5      20      49      51      80    99.5     100
6494          RY       3       1     0.5       0       0     0.5       1       3
              *

6495          KK   C72uS COMBINE
6496          KM    Combine hydrographs R72uS, P72uS1, and P72uS2.
6497          HC       3    8.06
              *

6498          KK    C72v COMBINE
6499          KM    Combine hydrographs C72uS and 72v.
6500          HC       2    8.47
              *

6501          KK  NUL72v COMBINE
6502          KM    Combine hydrographs C72v and NUL68v.
6503          HC       2   47.06
              *

6504          KK    76w   BASIN
6505          KM    Subbasin at NEC of Salt River and 19th Ave
6506          BA   0.334
6507          LG    0.10    0.26    3.17    1.09       2
6508          UC   0.979   0.648
6509          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6510          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6511          KK  BD76vS RETRIEVE
6512          KM    Retrieve diverted surface flow from D76vS.
6513          DR   D76vS
              *

6514          KK   R76vS   ROUTE
6515          KM    Route surface flow south from Subbasin 76v to 76w.
6516          RS       4    FLOW      -1
```

```
6517          RC   0.050   0.016   0.050    3800  0.0107
6518          RX       0     0.5      20      49      51      80    99.5     100
6519          RY       3       1     0.5       0       0     0.5       1       3
              *

6520          KK  BD76vP RETRIEVE
6521          KM    Retrieve diverted pipe flow from D76vP.
6522          DR   D76vP
              *

6523          KK   P76vS   ROUTE
6524          KM    Route pipe flow from subbasin 76v to subbasin 76w.
6525          RK    4000  0.0041   0.015            CIRC    4.50
              *

6526          KK   C76vS COMBINE
6527          KM    Combine hydrographs R76vS and P76vS.
6528          HC       2    8.24
              *

6529          KK    C76w COMBINE
6530          KM    Combine hydrographs 76w and C76vS.
6531          HC       2    8.57
              *

6532          KK  NUL76w COMBINE
6533          KM    Combine hydrographs C76w and NUL72v.
6534          HC       2   56.10
              *

6535          KK     80w  BASIN
6536          KM    Subbasin at NEC of Salt River and 23rd Ave
6537          BA   0.360
6538          LG    0.12    0.27    3.43    0.95      60
6539          UC   0.737   0.557
6540          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6541          UA     100
              *

6542          KK  BD80vS RETRIEVE
6543          KM    Retrieve diverted surface flow from D80vS.
6544          DR   D80vS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6545          KK   R80vS   ROUTE
6546          KM    Route surface flow south from Subbasin 80v to 80w.
6547          RS       3    FLOW      -1
6548          RC   0.050   0.016   0.050    3920  0.0061
6549          RX       0    0.75      30    73.5    76.5     120  149.25     150
6550          RY       3       1     0.5       0       0     0.5       1       3
              *

6551          KK    C80w COMBINE
6552          KM    Combine hydrographs R80vS and 80w.
6553          HC       2    8.59
              *

6554          KK  NUL80w COMBINE
6555          KM    Combine hydrographs C80w and NUL76w.
6556          HC       2   58.09
              *

6557          KK  BD84vS RETRIEVE
6558          KM    Retrieve diverted surface flow from D84vS.
6559          DR   D84vS
              *

6560          KK   R84vS   ROUTE
6561          KM    Route surface flow south from Subbasin 84v to 84w.
6562          RS       2    FLOW      -1
6563          RC   0.050   0.016   0.050    3290  0.0033
6564          RX       0     0.5      20      49      51      80    99.5     100
6565          RY       3       1     0.5       0       0     0.5       1       3
              *

6566          KK  BD84vP RETRIEVE
6567          KM    Retrieve diverted pipe flow from D84vP.
6568          DR   D84vP
              *

6569          KK  D84vP1  DIVERT
6570          KM    Divert flows into pipe (south).
```

```
6571          DT  D84vP2
6572          DI       0    1269    2000
6573          DQ       0    1017    1017
              *

6574          KK  P84vS1  ROUTE
6575          KM    Route pipe flow from subbasin 84v to subbasin 84w.
6576          RK    3100  0.0031   0.015            CIRC    6.50
              *

6577          KK  B84vP2 RETRIEVE
6578          KM    Retrieve diverted pipe flow from D84vP2.
6579          DR  D84vP2
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6580          KK  P84vS2   ROUTE
6581          KM    Route pipe flow from subbasin 84v to subbasin 84w.
6582          RK    3100  0.0030   0.015            CIRC   11.0
              *

6583          KK   C84vS COMBINE
6584          KM    Combine hydrographs R84vS, P84vS1, and P84vS2.
6585          HC       3    9.76
              *

6586          KK     84w   BASIN
6587          KM    Subbasin at NEC of Salt River and 27th Ave
6588          BA   0.339
6589          LG    0.17    0.25    3.95    0.61      43
6590          UC   0.924   0.643
6591          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6592          UA     100
              *

6593          KK  BD80vP RETRIEVE
6594          KM    Retrieve diverted pipe flow from D80vP.
6595          DR   D80vP
              *

6596          KK   P80vS   ROUTE
6597          KM    Route pipe flow from subbasin 80v to subbasin 80w.
6598          RK    4600  0.0030   0.015            CIRC     6.5
              *

6599          KK    C84w COMBINE
6600          KM    Combine hydrographs 84w and C84vS.
6601          HC       3   10.10
              *

6602          KK  NUL84w COMBINE
6603          KM    Combine hydrographs C84w and NUL80w.
6604          HC       2   59.72
              *

6605          KK  NUL88w COMBINE
6606          KM    Combine hydrographs C88w and NUL84w.
6607          HC       2   61.86
              *

6608          KK     24s   BASIN
6609          KM    Subbasin at NEC of Grand Canal and 44th St
6610          BA   0.195
6611          LG    0.19    0.25    4.80    0.37      35
6612          UC   0.615   0.463
6613          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6614          UA     100
              *
1                                        HEC-1 INPUT                                                    PAGE185

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6615          KK    S24s STORAGE
6616          KM    Regional online retention basin, 5 ac-ft.
6617          RS       1    STOR       0
6618          SV       0     5.1      14
6619          SE       0       2       4
6620          SS       2     100     2.7     1.5
              *

6621          KK  B28qP2 RETRIEVE
6622          KM    Retrieve diverted pipe flow from D28qP2.
```

```
6623          DR  D28qP2
              *

6624          KK   P28qE   ROUTE
6625          KM    Route pipe flow from subbasin 28q to subbasin 24s.
6626          RK    1300  0.0031   0.015            CIRC     3.0
              *

6627          KK    C24s COMBINE
6628          KM    Combine hydrographs P28qE and S24s.
6629          HC       2    0.20
              *

6630          KK    D24s  DIVERT
6631          KM    Divert 249 cfs into pipe (south).
6632          DT   D24sP
6633          DI       0     100     249   10000
6634          DQ       0     100     249     249
              *

6635          KK   R24sS   ROUTE
6636          KM    Route surface flow south from Subbasin 24s to 24t.
6637          RS       2    FLOW      -1
6638          RC   0.050   0.016   0.050    5000  0.0030
6639          RX       0     0.5      20      49      51      80    99.5     100
6640          RY       3       1     0.5       0       0     0.5       1       3
              *

6641          KK  BD24sP RETRIEVE
6642          KM    Retrieve diverted pipe flow from D24sP.
6643          DR   D24sP
              *

6644          KK  D24sPS  DIVERT
6645          KM    Divert 32 cfs into pipe (east).
6646          DT  D24sPE
6647          DI       0     249     250
6648          DQ       0      32      32
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6649          KK   P24sS   ROUTE
6650          KM    Route pipe flow from 44th st/Grand Canal to subbasin 24t.
6651          RK    5000  0.0030   0.015            CIRC    6.50
              *

6652          KK   C24sS COMBINE
6653          KM    Combine hydrographs R24sS and P24sS.
6654          HC       2    0.20
              *

6655          KK     24t   BASIN
6656          KM   Subbasin at NEC of Salt River and SR143
6657          BA   0.260
6658          LG    0.10    0.25    3.48    0.87       6
6659          UC   0.639   0.300
6660          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6661          UA     100
              *

6662          KK    C24t COMBINE
6663          KM    Combine hydrographs 24t and C24sS.
6664          HC       2    0.46
              *

6665          KK   S24t STORAGE
6666          KM    Online Regional Detention Basin, 31 ac-ft.
6667          RS       1    STOR       0
6668          SV       0      13    30.6    53.6
6669          SE       0       4       8      12
6670          SQ       0      25      90    6594
              *

6671          KK     04s   BASIN
6672          KM    Subbasin at NEC of Washington and Center Pkwy
6673          BA   0.278
6674          LG    0.12    0.25    4.15    0.63      25
6675          UC   0.322   0.171
6676          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6677          UA     100
              *

6678          KK    S04s STORAGE
```

```
6679          KM    Online Detention Basin, 2 ac-ft.
6680          RS       1    STOR       0
6681          SV       0     0.5       2       6
6682          SE       0       4       8      12
6683          SL     0.5   0.785    0.62     0.5
6684          SS       8      60     2.7     1.5
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6685          KK   R04sS   ROUTE
6686          KM    Route surface flow south from Subbasin 04s to 08s.
6687          RS       1    FLOW      -1
6688          RC   0.050   0.016   0.050    1870  0.0064
6689          RX       0     0.5      20      49      51      80    99.5     100
6690          RY       3       1     0.5       0       0     0.5       1       3
              *

6691          KK     08q   BASIN
6692          KM    Subbasin at NEC of Center and Phoenix Zoo
6693          BA   0.438
6694          LG    0.10    0.25    3.95    0.64      41
6695          UC   0.528   0.324
6696          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6697          UA     100
              *

6698          KK   R08qS   ROUTE
6699          KM    Route surface flow south from Subbasin 08q to 08s.
6700          RS       2    FLOW      -1
6701          RC   0.050   0.016   0.050    3500  0.0224
6702          RX       0    0.75      30    73.5    76.5     120  149.25     150
6703          RY       3       1     0.5       0       0     0.5       1       3
              *

6704          KK     08s   BASIN
6705          KM    Subbasin at NEC of Loop 202 and Priest Dr
6706          BA   0.651
6707          LG    0.15    0.25    3.85    0.68      44
6708          UC   0.572   0.274
6709          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6710          UA     100
              *

6711          KK    C08s COMBINE
6712          KM    Combine hydrographs 08s and R08q, R04s.
6713          HC       3    1.37
              *

6714          KK   S08s STORAGE
6715          KM   Online Detention Regional Basin, 28 ac-ft.
6716          RS       1    STOR       0
6717          SV       0       1       3       6      12      20      28      38
6718          SE       0       2       4       6       8      10      12      14
6719          SL     0.5    3.14    0.62     0.5
6720          SS      12     200     2.7     1.5
              *

6721          KK    D08s  DIVERT
6722          KM    Divert 862 cfs into pipe (south).
6723          DT   D08sP
6724          DI       0     100     862   10000
6725          DQ       0     100     862     862
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6726          KK   R08sW   ROUTE
6727          KM    Route surface flow west from Subbasin 08s to 16s.
6728          RS       3    FLOW      -1
6729          RC   0.050   0.016   0.050    2800  0.0031
6730          RX       0     0.5      20      49      51      80    99.5     100
6731          RY       3       1     0.5       0       0     0.5       1       3
              *

6732          KK     12q   BASIN
6733          KM    Subbasin at NEC of Van Buren and 56th St
6734          BA   0.399
6735          LG    0.14    0.25    4.10    0.60      10
6736          UC   0.468   0.307
6737          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6738          UA     100
```

```
                *

6739            KK   R12qS   ROUTE
6740            KM    Route surface flow south from Subbasin 12q to 12s.
6741            RS       2    FLOW      -1
6742            RC   0.050   0.016   0.050    3500  0.0175
6743            RX       0     0.5      20      49      51      80    99.5     100
6744            RY       3       1     0.5       0       0     0.5       1       3
                *

6745            KK     12s   BASIN
6746            KM    Subbasin at NEC of UPRR and Galvin Pkwy
6747            BA   0.208
6748            LG    0.12    0.25    4.00    0.65      72
6749            UC   0.414   0.284
6750            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6751            UA     100
                *

6752            KK   S12s STORAGE
6753            KM    Online Detention Basin, 10 ac-ft.
6754            RS       1    STOR       0
6755            SV       0     1.2       3       6      10      15
6756            SE       0       2       4       6       8      10
6757            SL     0.5   0.785    0.62     0.5
6758            SS       8     150     2.7     1.5
                *

6759            KK    C12s COMBINE
6760            KM    Combine hydrographs S12s and R12qs.
6761            HC       2    0.61
                *

6762            KK   R12sW   ROUTE
6763            KM    Route surface flow west from Subbasin 12s to 16s.
6764            RS       2    FLOW      -1
6765            RC   0.050   0.016   0.050    2500  0.0031
6766            RX       0     0.5      20      49      51      80    99.5     100
6767            RY       3       1     0.5       0       0     0.5       1       3
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6768            KK   C12sW COMBINE
6769            KM    Combine hydrographs R12sW and P08sW.
6770            HC       2    1.97
                *

6771            KK   D16s2  DIVERT
6772            KM    Divert 979 cfs into pipe (south).
6773            DT  D16sP2
6774            DI       0     100     979   10000
6775            DQ       0     100     979     979
                *

6776            KK     16o   BASIN
6777            KM    Subbasin at NEC of Mcdowell and 54th St
6778            BA   0.211
6779            LG    0.10    0.25    4.15    0.63      78
6780            UC   0.189   0.085
6781            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6782            UA     100
                *

6783            KK   R16oS   ROUTE
6784            KM    Route surface flow south from Subbasin 16o to 16q.
6785            RS       2    FLOW      -1
6786            RC   0.050   0.016   0.050    5150  0.0252
6787            RX       0     0.5      20      49      51      80    99.5     100
6788            RY       3       1     0.5       0       0     0.5       1       3
                *

6789            KK     16q   BASIN
6790            KM    Subbasin at NEC of Van Buren and 52nd St
6791            BA   0.651
6792            LG    0.13    0.25    3.95    0.67      21
6793            UC   0.641   0.431
6794            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6795            UA     100
                *

6796            KK    C16q COMBINE
6797            KM    Combine hydrographs 16q and R16oS.
6798            HC       2    0.86
```

```
                *

6799            KK   S16q STORAGE
6800            KM    Online Regional Retention Basin, 35 ac-ft.
6801            RS       1    STOR       0
6802            SV       0     0.5       2       3       9      20      35      58
6803            SE       0       2       4       6      10      14      18      22
6804            SS      18     100     2.7     1.5
                *
1                                          HEC-1 INPUT                                                    PAGE190

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6805            KK    D16q  DIVERT
6806            KM    Divert 659 cfs into pipes (484 cfs to south, 175 cfs to west).
6807            DT   D16qP
6808            DI       0     100     659   10000
6809            DQ       0     100     659     659
                *

6810            KK   R16qS   ROUTE
6811            KM    Route surface flow south from Subbasin 16q to 16s.
6812            RS       2    FLOW      -1
6813            RC   0.050   0.016   0.050    3200  0.0194
6814            RX       0       1      40      98     102     160     199     200
6815            RY       3       1     0.5       0       0     0.5       1       3
                *

6816            KK     16s   BASIN
6817            KM    Subbasin at NEC of Loop 202 and Sky Harbor Blvd
6818            BA   0.420
6819            LG    0.16    0.23    4.25    0.52      59
6820            UC   0.464   0.227
6821            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6822            UA     100
                *

6823            KK    C16s COMBINE
6824            KM    Combine flows of 16s, R16qS, and D16s2
6825            HC       3    3.26
                *

6826            KK    S16s STORAGE
6827            KM    Online Regional Retention Basin, 19 ac-ft.
6828            RS       1    STOR       0
6829            SV       0     2.4       7    12.7    19.2    26.5
6830            SE       0       2       4       6       8      10
6831            SS       8     300     2.7     1.5
                *

6832            KK  BD16qP RETRIEVE
6833            KM    Retrieve diverted pipe flow from D16qP.
6834            DR   D16qP
                *

6835            KK  D16qPS  DIVERT
6836            KM    Divert 659 cfs into pipes (484 cfs to south 175 cfs to west).
6837            KM    Two pipes to west (82 cfs and 93 cfs).
6838            DT  D16qPW
6839            DI       0     659    1000
6840            DQ       0     175     175
                *
1                                          HEC-1 INPUT                                                    PAGE191

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6841            KK   P16qS   ROUTE
6842            KM    Route pipe flow from subbasin 16q to subbasin 16s.
6843            RK    3400  0.0114   0.015            CIRC    6.50
                *

6844            KK   CC16s COMBINE
6845            KM    Combine flows of S16s and P16qS.
6846            HC       2    3.26
                *

6847            KK    D16s  DIVERT
6848            KM    Divert 709 cfs into pipe (west).
6849            DT   D16sP
6850            DI       0     100     709   10000
6851            DQ       0     100     709     709
                *

6852            KK   R16sS   ROUTE
```

```
6853          KM    Route surface flow south from Subbasin 16s to 20t.
6854          RS       2    FLOW      -1
6855          RC   0.050   0.016   0.050    1800  0.0044
6856          RX       0       1      40      98     102     160     199     200
6857          RY       3       1     0.5       0       0     0.5       1       3
              *

6858          KK  BD16sP RETRIEVE
6859          KM    Retrieve diverted pipe flow from D16sP.
6860          DR   D16sP
              *

6861          KK   P16sS   ROUTE
6862          KM    Route pipe flow from 52nd st/SPRR to subbasin 20t.
6863          RK    1500  0.0153   0.015            CIRC    8.00
              *

6864          KK   C16sS COMBINE
6865          KM    Combine hydrographs R16sS and P16sS.
6866          HC       2    3.26
              *

6867          KK     20p   BASIN
6868          KM    Subbasin at NEC of Loop 202 and SR143
6869          BA   0.532
6870          LG    0.54    0.24    4.40    0.46      26
6871          UC   0.690   0.404
6872          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6873          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6874          KK   S20p1 STORAGE
6875          KM    Online Retention Basin, 2 ac-ft.
6876          RS       1    STOR       0
6877          SV       0     0.1     0.6       2       4
6878          SE       0       2       4       6       8
6879          SS       6     100     2.7     1.5
              *

6880          KK  B16qPW RETRIEVE
6881          KM    Retrieve diverted pipe flow from D16qPW.
6882          DR  D16qPW
              *

6883          KK   P16qW   ROUTE
6884          KM    Route pipe flow from subbasin 16q to subbasin 20p.
6885          RK    5200  0.0127   0.015            CIRC     5.0
              *

6886          KK    C20p COMBINE
6887          KM    Combine hydrographs P16qW and S20p1.
6888          HC       2    1.39
              *

6889          KK   S20p2 STORAGE
6890          KM    Online Regional Detention Basin, 43 ac-ft.
6891          RS       1    STOR       0
6892          SV       0     1.4     4.1     9.6    20.7    42.7    79.4
6893          SE       0       2       4       6       8      10      12
6894          SL     1.5   7.065    0.62     0.5
6895          SS      10     200     2.7     1.5
              *

6896          KK  OCCC48  INFLOW
6897          KM   Inflow from OCCC area at 48th Street and McDowell Rd.
6898          KM   Maximum flow 5420 cfs
6899          IN      60
6900          BA     3.0
6901          QI       0      10      50     100     200     350     500     650     800     900
6902          QI    1114    1149    1258    5420    2461    1288    1038     900     700     500
6903          QI     300     200     100       5     0.1
              *

6904          KK  BD24oP RETRIEVE
6905          KM    Retrieve diverted pipe flow from D24oP.
6906          DR   D24oP
              *

6907          KK   P24oS   ROUTE
6908          KM    Route pipe flow from subbasin 24o to subbasin 20p.
6909          RK    3000  0.0030   0.015            CIRC    3.50
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6910          KK   C24oS COMBINE
6911          KM    Combine hydrographs OCCC48 and P24oS.
6912          HC       2    3.00
              *

6913          KK   ROCCC   ROUTE
6914          KM    Route surface flow south from OCCC48 to 20p.
6915          RS       2    FLOW      -1
6916          RC   0.013   0.013   0.013    3000  0.0038
6917          RX       0       1       2      10      19      28      29      30
6918          RY      20      20       0       0       0       0      20      20
              *

6919          KK   CC20p COMBINE
6920          KM    Combine hydrographs S20p2 and ROCCC.
6921          HC       2    4.39
              *

6922          KK   R20pS   ROUTE
6923          KM    Route surface flow south from Subbasin 20p to 20q.
6924          RS       1    FLOW      -1
6925          RC   0.013   0.013   0.013    3000  0.0020
6926          RX       0       1       2      10      19      28      29      30
6927          RY      20      20       0       0       0       0      20      20
              *

6928          KK     20q   BASIN
6929          KM    Subbasin at NEC of Van Buren and SR143
6930          BA   0.276
6931          LG    0.25    0.22    4.45    0.40      11
6932          UC   0.654   0.386
6933          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6934          UA     100
              *

6935          KK  B28pP2 RETRIEVE
6936          KM    Retrieve diverted pipe flow from D28pP2.
6937          DR  D28pP2
              *

6938          KK   P28pE   ROUTE
6939          KM    Route pipe flow from subbasin 28p to subbasin 20q.
6940          RK    6000  0.0030   0.015            CIRC     4.0
              *

6941          KK    C20q COMBINE
6942          KM    Combine hydrographs 20q and R20pS.
6943          HC       3    4.67
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6944          KK   R20qS   ROUTE
6945          KM    Route surface flow south from Subbasin 20q to 20s.
6946          RS       2    FLOW      -1
6947          RC   0.013   0.013   0.013    3200  0.0020
6948          RX       0       1       2      10      19      28      29      30
6949          RY      20      20       0       0       0       0      20      20
              *

6950          KK     20s   BASIN
6951          KM   Subbasin at NEC of Grand Canal and SR143
6952          BA   0.484
6953          LG    0.16    0.24    4.55    0.44      52
6954          UC   0.471   0.203
6955          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6956          UA     100
              *

6957          KK    S20s STORAGE
6958          KM    Online Retention Basin, 3 ac-ft.
6959          RS       1    STOR       0
6960          SV       0     0.9       3       8
6961          SE       0       2       4       7
6962          SS       4      60     2.7     1.5
              *

6963          KK    C20s COMBINE
6964          KM    Combine hydrographs S20s and R20qS.
```

```
6965          HC       2    5.15
              *

6966          KK  B24sPE RETRIEVE
6967          KM    Retrieve diverted pipe flow from D24sPE.
6968          DR  D24sPE
              *

6969          KK   P24sE   ROUTE
6970          KM    Route pipe flow from subbasin 24s to subbasin 20s.
6971          RK    2700  0.0031   0.015            CIRC     3.0
              *

6972          KK   CC20s COMBINE
6973          KM    Combine hydrographs C20s and P24sE.
6974          HC       2    5.35
              *

6975          KK   R20sS   ROUTE
6976          KM    Route surface flow south from Subbasin 20s to 20t.
6977          RS       2    FLOW      -1
6978          RC   0.013   0.013   0.013    3200  0.0038
6979          RX       0       1       2      10      19      28      29      30
6980          RY      20      20       0       0       0       0      20      20
              *
1                                          HEC-1 INPUT                                                    PAGE195

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6981          KK     20t   BASIN
6982          KM    Subbasin at NEC of Salt River and SR143
6983          BA   0.265
6984          LG    0.13    0.23    2.54    1.53       3
6985          UC   1.074   0.590
6986          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6987          UA     100
              *

6988          KK    S20t STORAGE
6989          KM    Online Retention Basin, 156 ac-ft.
6990          RS       1    STOR       0
6991          SV       0    20.7    50.1    88.4   156.1   249.1
6992          SE       0       2       4       6       8      10
6993          SS       8     600     2.7     1.5
              *

6994          KK    C20t COMBINE
6995          KM    Combine flows of 20t, C16sS, and 20sS
6996          HC       3    8.01
              *

6997          KK  NUL20t COMBINE
6998          KM    Combine hydrographs C20t and S24t.
6999          HC       2    8.27
              *
7000          ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
 INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   78        64c
                .
                .
   87           .-------->   D64cS
   85      D64cW
                V
                V
   90      R64cW
                .
                .
   96           .         68c
                .           .
                .           .
  103       C68c............
                .
                .
  108           .-------->   D68cP
  106       D68c
                .
                .
  113           .-------->   D68cS
  111      D68cW
                V
                V
  116      R68cW
                .
                .
  122           .         72c
                .           .
                .           .
  129       C72c............
                .
                .
  134           .-------->   D72cP
  132       D72c
                .
                .
  139           .-------->   D72cS
  137      D72cW
                V
                V
  142      R72cW
                .
                .
  148           .         76C
                .           .
                .           .
  155       C76c............
                .
                .
  160           .-------->    D76c
  158      D76cP
                .
                .
  163           .         84c
                .           .
                .           .
  172           .           .-------->   D84cS
  170           .       D84cE
                .           V
                .           V
  175           .       R84cE
                .           .
                .           .
  181           .           .         80c
                .           .           V
                .           .           V
  188           .           .        S80c
                .           .           .
                .           .           .
  194           .        C80c............
                .           .
                .           .
  199           .           .-------->    D80c
  197           .       D80cP
                .           .
                .           .
  202      C76cP............
                V
```

```
            V
205      P76cS
            .
            .
210         .-------> D80eP1
208     D76eP1
            .
            .
213         .         56e
            .           .
            .           .
222         .           .-------> D56eS
220         .       D56eW
            .           V
            .           V
225         .       R56eW
            .           .
            .           .
231         .           .         60e
            .           .           .
            .           .           .
238         .        C60e............
            .           .
            .           .
243         .           .-------> D60eP
241         .        D60e
            .           .
            .           .
248         .           .-------> D60eS
246         .       D60eW
            .           V
            .           V
251         .       R60eW
            .           .
            .           .
257         .           .         64e
            .           .           .
            .           .           .
266         .           .           .          .<-------   D64cS
264         .           .           .      B64cS
            .           .           .          V
            .           .           .          V
267         .           .           .      R64cS
            .           .           .          .
            .           .           .          .
273         .        C64e.......................
            .           .
            .           .
278         .           .-------> D64eS
276         .       D64eW
            .           V
            .           V
281         .       R64eW
            .           .
            .           .
287         .           .         68e
            .           .           .
            .           .           .
296         .           .           .          .<-------   D68cP
294         .           .           .      B68cP
            .           .           .          V
            .           .           .          V
297         .           .           .      P68cS
            .           .           .          .
            .           .           .          .
302         .           .           .          .           .<-------   D68cS
300         .           .           .          .       B68cS
            .           .           .          .           V
            .           .           .          .           V
303         .           .           .          .       R68cS
            .           .           .          .           .
            .           .           .          .           .
309         .           .           .      C68cS............
            .           .           .          .
            .           .           .          .
312         .        C68e.......................
            .           .
            .           .
317         .           .-------> D68eP
315         .        D68e
            .           .
            .           .
322         .           .-------> D68eS
320         .       D68eW
            .           V
            .           V
```

```
325          .       R68eW
             .           .
             .           .
331          .           .         72e
             .           .           .
             .           .           .
340          .           .           .          .<-------   D72cP
338          .           .           .      B72cP
             .           .           .          V
             .           .           .          V
341          .           .           .      P72cS
             .           .           .          .
             .           .           .          .
346          .           .           .          .           .<-------   D72cS
344          .           .           .          .       B72cS
             .           .           .          .           V
             .           .           .          .           V
347          .           .           .          .       R72cS
             .           .           .          .           .
             .           .           .          .           .
353          .           .           .      C72cS............
             .           .           .          .
             .           .           .          .
356          .        C72e........................
             .           .
             .           .
361          .           .------->   D72eP
359          .        D72e
             .           .
             .           .
366          .           .------->   D72eS
364          .       D72eW
             .           V
             .           V
369          .       R72eW
             .           .
             .           .
375          .           .         76e
             .           .           .
             .           .           .
384          .           .           .          .<-------    D76c
382          .           .           .       B76c
             .           .           .          V
             .           .           .          V
385          .           .           .      R76cS
             .           .           .          .
             .           .           .          .
391       C76e...................................
             .
             .
396          .------->    D76e
394       D76eP
             .
             .
401          .           .<-------   D84cS
399          .      BD84cS
             .           V
             .           V
402          .       R84cS
             .           .
             .           .
408          .           .         84e
             .           .           .
             .           .           .
415          .        C84e............
             .           .
             .           .
420          .           .------->   D84eS
418          .       D84eE
             .           V
             .           V
423          .       R84eE
             .           .
             .           .
429          .           .         80e
             .           .           .
             .           .           .
438          .           .           .          .<-------  D80eP1
436          .           .           .     B80eP1
             .           .           .          .
             .           .           .          .
441          .           .           .          .           .<-------    D80c
439          .           .           .          .       BD80c
             .           .           .          .           V
             .           .           .          .           V
442          .           .           .          .       R80cS
```

```
                .           .           .           .           .
                .           .           .           .           .
448             .        C80e.................................
                .           .
                .           .
453             .           .------->    D80e
451             .       D80eP
                .           .
                .           .
456        C76eP............
                V
                V
459        P76eS
                .
                .
464             .------->  D80gP1
462       D76gP1
                .
                .
467             .         76g
                .           .
                .           .
476             .           .           .<-------    D76e
474             .           .       BD76e
                .           .           V
                .           .           V
477             .           .       R76eS
                .           .           .
                .           .           .
483         C76g........................
                .
                .
488             .------->  D76gP2
486        D76g1
                .
                .
493             .------->   D76gP
491         D76g
                .
                .
498             .------->   D76gS
496        D76gE
                V
                V
501        R76gE
                .
                .
509             .           .<-------  D76gP2
507             .      B76gP2
                .           .
                .           .
510        C76gE............
                .
                .
513             .         54g
                .           .
                .           .
522             .           .------->   D54gS
520             .       D54gW
                .           V
                .           V
525             .       R54gW
                .           .
                .           .
531             .           .         56g
                .           .           .
                .           .           .
540             .           .           .           .<-------   D56eS
538             .           .           .       B56eS
                .           .           .           V
                .           .           .           V
541             .           .           .       R56eS
                .           .           .           .
                .           .           .           .
547             .        C56g........................
                .           .
                .           .
552             .           .------->   D56gP
550             .        D56g
                .           .
                .           .
557             .           .------->   D56gS
555             .       D56gW
                .           V
                .           V
560             .       R56gW
```

```
                .          .
                .          .
566             .          .         60g
                .          .          .
                .          .          .
575             .          .          .          .<-------   D60eP
573             .          .          .      B60eP
                .          .          .          V
                .          .          .          V
576             .          .          .      P60eS
                .          .          .          .
                .          .          .          .
581             .          .          .          .          .<-------   D60eS
579             .          .          .          .      B60eS
                .          .          .          .          V
                .          .          .          .          V
582             .          .          .          .      R60eS
                .          .          .          .          .
                .          .          .          .          .
588             .          .          .      C60eS............
                .          .          .          .
                .          .          .          .
591             .       C60g........................
                .          .
                .          .
596             .          .-------->  D60gP
594             .       D60g
                .          .
                .          .
601             .          .-------->  D60gS
599             .      D60gW
                .          V
                .          V
604             .      R60gW
                .          .
                .          .
610             .          .         64g
                .          .          .
                .          .          .
619             .          .          .          .<-------   D64eS
617             .          .          .      B64eS
                .          .          .          V
                .          .          .          V
620             .          .          .      R64eS
                .          .          .          .
                .          .          .          .
626             .       C64g........................
                .          .
                .          .
631             .          .-------->  D64gP
629             .       D64g
                .          .
                .          .
636             .          .-------->  D64gS
634             .      D64gW
                .          V
                .          V
639             .      R64gW
                .          .
                .          .
645             .          .         68g
                .          .          .
                .          .          .
654             .          .          .          .<-------   D68eP
652             .          .          .      B68eP
                .          .          .          V
                .          .          .          V
655             .          .          .      P68eS
                .          .          .          .
                .          .          .          .
660             .          .          .          .          .<-------   D68eS
658             .          .          .          .      B68eS
                .          .          .          .          V
                .          .          .          .          V
661             .          .          .          .      R68eS
                .          .          .          .          .
                .          .          .          .          .
667             .          .          .      C68eS............
                .          .          .          .
                .          .          .          .
670             .       C68g........................
                .          .
                .          .
675             .          .-------->  D68gP
673             .       D68g
                .          .
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```
680          .           .-------->   D68gS
678          .       D68gW
             .           V
             .           V
683          .       R68gW
             .           .
             .           .
689          .           .        72g
             .           .           .
             .           .           .
698          .           .           .           .<-------   D72eP
696          .           .           .       B72eP
             .           .           .           V
             .           .           .           V
699          .           .           .       P72eS
             .           .           .           .
             .           .           .           .
704          .           .           .           .           .<-------   D72eS
702          .           .           .           .       B72eS
             .           .           .           .           V
             .           .           .           .           V
705          .           .           .           .       R72eS
             .           .           .           .           .
             .           .           .           .           .
711          .           .           .       C72eS............
             .           .           .           .
             .           .           .           .
714          .        C72g........................
             .           .
             .           .
717      CC72g............
             .
             .
722          .-------->   D72gP
720       D72g
             V
             V
725      R72gS
             .
             .
733          .           .<-------   D72gP
731          .      BD72gP
             .           V
             .           V
734          .       P72gS
             .           .
             .           .
737      C72gS............
             .
             .
740          .         84g
             .           .
             .           .
749          .           .           .<-------   D84eS
747          .           .       B84eS
             .           .           V
             .           .           V
750          .           .       R84eS
             .           .           .
             .           .           .
756          .        C84g............
             .           .
             .           .
761          .           .-------->   D84gS
759          .       D84gE
             .           V
             .           V
764          .       R84gE
             .           .
             .           .
770          .           .         80g
             .           .           .
             .           .           .
779          .           .           .           .<-------    D80e
777          .           .           .       BD80e
             .           .           .           V
             .           .           .           V
780          .           .           .       R80eS
             .           .           .           .
             .           .           .           .
788          .           .           .           .           .<-------  D80gP1
786          .           .           .           .      B80gP1
             .           .           .           .           .
             .           .           .           .           .
789          .        C80g.................................
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                .           .
                .           .
794             .           .-------->    D80g
792             .       D80gP
                .           .
                .           .
799             .           .           .<-------   D76gP
797             .           .       B76gP
                .           .           .
                .           .           .
800             .       C76gP............
                .           V
                .           V
803             .       P76gS
                .           .
                .           .
808             .           .-------->  D80iP1
806             .      D76iP1
                .           .
                .           .
811             .           .         76i
                .           .           .
                .           .           .
820             .           .           .           .<-------   D76gS
818             .           .           .      BD76gS
                .           .           .           V
                .           .           .           V
821             .           .           .       R76gS
                .           .           .           .
                .           .           .           .
827             .        C76i........................
                .           .
                .           .
832             .           .-------->   D76i1
830             .      D76iP2
                .           .
                .           .
835             .           .         72i
                .           .           .
                .           .           .
842        C72i........................
                .
                .
848             .-------->    D72i
845       D72iP
                .
                .
854             .-------->  D72iP1
851      D72iP2
             V
             V
857       P72iW
                .
                .
862             .           .<-------   D76i1
860             .      BD76i1
                .           .
                .           .
863       CC76i............
                .
                .
868             .-------->    D76i
866       D76iP
                .
                .
873             .           .<-------   D84gS
871             .      BD84gS
                .           V
                .           V
874             .       R84gS
                .           .
                .           .
880             .           .         84i
                .           .           .
                .           .           .
887             .        C84i............
                .           V
                .           V
890             .        S84i
                .           .
                .           .
898             .           .-------->   D84iS
896             .       D84iE
                .           V
                .           V
901             .       R84iE
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                .           .
                .           .
907             .           .         80i
                .           .           .
                .           .           .
916             .           .           .           .<-------    D80g
914             .           .           .       BD80g
                .           .           .           V
                .           .           .           V
917             .           .           .        S80g
                .           .           .           V
                .           .           .           V
924             .           .           .       R80gS
                .           .           .           .
                .           .           .           .
932             .           .           .           .           .<-------  D80iP1
930             .           .           .           .     B80iP1
                .           .           .           .           .
                .           .           .           .           .
933             .        C80i.................................
                .           .
                .           .
938             .           .------->    D80i
936             .       D80iP
                .           .
                .           .
941       C76iP............
              V
              V
944       P76iS
                .
                .
949             .------->  D80kP1
947     D76kP1
                .
                .
952             .         76k
                .           .
                .           .
961             .           .           .<-------    D76i
959             .           .       BD76i
                .           .           .
                .           .           .
964             .           .           .------->   D76iE
962             .           .       D76iS
                .           .           V
                .           .           V
967             .           .       R76iS
                .           .           .
                .           .           .
973       C76k......................
                .
                .
979             .------->   D76k1
976     D76kP2
                .
                .
982             .         54i
                .           .
                .           .
991             .           .           .<-------   D54gS
989             .           .      BD54gS
                .           .           V
                .           .           V
992             .           .       R54gS
                .           .           .
                .           .           .
998             .        C54i............
                .           .
                .           .
1003            .           .------->   D54iP
1001            .        D54i
                .           .
                .           .
1008            .           .------->   D54iS
1006            .       D54iW
                .           V
                .           V
1011            .       R54iW
                .           .
                .           .
017             .           .         56i
                .           .           .
                .           .           .
1026            .           .           .           .<-------   D56gP
1024            .           .           .      BD56gP
```

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                .          .          .          V
                .          .          .          V
1027            .          .          .       P56gS
                .          .          .          .
                .          .          .          .
1032            .          .          .          .          .<-------   D56gS
1030            .          .          .          .      BD56gS
                .          .          .          .          V
                .          .          .          .          V
1033            .          .          .          .       R56gS
                .          .          .          .          .
                .          .          .          .          .
1039            .          .          .       C56gS............
                .          .          .          .
                .          .          .          .
1042            .        C56i........................
                .          .
                .          .
1047            .          .-------->   D56iP
1045            .        D56i
                .          .
                .          .
1052            .          .-------->   D56iS
1050            .       D56iW
                .          V
                .          V
1055            .       R56iW
                .          .
                .          .
1061            .          .         60i
                .          .          .
                .          .          .
1070            .          .          .          .<-------   D60gP
1068            .          .          .      BD60gP
                .          .          .          V
                .          .          .          V
1071            .          .          .       P60gS
                .          .          .          .
                .          .          .          .
1076            .          .          .          .          .<-------   D60gS
1074            .          .          .          .      BD60gS
                .          .          .          .          V
                .          .          .          .          V
1077            .          .          .          .       R60gS
                .          .          .          .          .
                .          .          .          .          .
1083            .          .          .       C60gS............
                .          .          .          .
                .          .          .          .
1086            .        C60i........................
                .          .
                .          .
1092            .          .-------->   D60iP
1089            .        D60i
                .          .
                .          .
1097            .          .-------->   D60iS
1095            .       D60iW
                .          V
                .          V
1100            .       R60iW
                .          .
                .          .
1108            .          .          .<-------   D64gP
1106            .          .      BD64gP
                .          .          V
                .          .          V
1109            .          .       P64gS
                .          .          .
                .          .          .
1114            .          .          .          .<-------   D64gS
1112            .          .          .      BD64gS
                .          .          .          V
                .          .          .          V
1115            .          .          .       R64gS
                .          .          .          .
                .          .          .          .
1121            .          .       C64gS............
                .          .          .
                .          .          .
1124            .          .          .         64i
                .          .          .          .
                .          .          .          .
1131            .        C64i........................
                .          .
                .          .
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1136          .          .-------->   D64iP
1134          .       D64i
              .          .
              .          .
1141          .          .-------->   D64iS
1139          .      D64iW
              .          V
              .          V
1144          .      R64iW
              .          .
              .          .
1150          .          .         68i
              .          .          .
              .          .          .
1159          .          .          .          .<--------   D68gP
1157          .          .          .      BD68gP
              .          .          .          V
              .          .          .          V
1160          .          .          .       P68gS
              .          .          .          .
              .          .          .          .
1165          .          .          .          .           .<--------   D68gS
1163          .          .          .          .      BD68gS
              .          .          .          .           V
              .          .          .          .           V
1166          .          .          .          .       R68gS
              .          .          .          .           .
              .          .          .          .           .
1172          .          .          .       C68gS............
              .          .          .          .
              .          .          .          .
1175          .       C68i........................
              .          .
              .          .
1180          .          .          .<--------    D72i
1178          .          .       BD72i
              .          .          .
              .          .          .
1183          .          .          .          .<--------   D76iE
1181          .          .          .       B76iE
              .          .          .          V
              .          .          .          V
1184          .          .          .       R76iE
              .          .          .          .
              .          .          .          .
1190          .          .       CC72i............
              .          .          .
              .          .          .
1195          .          .          .-------->   D72iS
1193          .          .       D72iE
              .          .          V
              .          .          V
1198          .          .       R72iE
              .          .          .
              .          .          .
1204          .      CC68i............
              .          .
              .          .
1209          .          .-------->   D68iP
1207          .       D68i
              .          V
              .          V
1212          .      R68iS
              .          .
              .          .
1220          .          .          .<--------   D68iP
1218          .          .      BD68iP
              .          .          V
              .          .          V
1221          .          .       P68iS
              .          .          .
              .          .          .
1224          .      C68iS............
              .          .
              .          .
1227          .          .         36i
              .          .          .
              .          .          .
1236          .          .          .-------->   D36iP
1234          .          .       D36i
              .          .          .
              .          .          .
1241          .          .          .-------->   D36iS
1239          .          .       D36iW
              .          .          V
              .          .          V
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1244          .           .       R36iW
              .           .           .
              .           .           .
1250          .           .           .         40i
              .           .           .           V
              .           .           .           V
1257          .           .           .        S40i
              .           .           .           .
              .           .           .           .
1263          .           .        C40i............
              .           .           .
              .           .           .
1268          .           .           .-------->   D40iS
1266          .           .       D40iW
              .           .           V
              .           .           V
1271          .           .       R40iW
              .           .           .
              .           .           .
1277          .           .           .         44i
              .           .           .           .
              .           .           .           .
1284          .           .           .           .         42i
              .           .           .           .           V
              .           .           .           .           V
1291          .           .           .           .       R42iW
              .           .           .           .           .
              .           .           .           .           .
1297          .           .        C44i........................
              .           .           .
              .           .           .
1302          .           .           .-------->   D44iP
1300          .           .        D44i
              .           .           .
              .           .           .
1307          .           .           .-------->   D44iS
1305          .           .       D44iW
              .           .           V
              .           .           V
1310          .           .       R44iW
              .           .           .
              .           .           .
1316          .           .           .         48i
              .           .           .           .
              .           .           .           .
1323          .           .        C48i............
              .           .           .
              .           .           .
1328          .           .           .-------->   D48iP
1326          .           .        D48i
              .           .           .
              .           .           .
1333          .           .           .-------->   D48iS
1331          .           .       D48iW
              .           .           V
              .           .           V
1336          .           .       R48iW
              .           .           .
              .           .           .
1344          .           .           .           .<--------   D48iP
1342          .           .           .      BD48iP
              .           .           .           V
              .           .           .           V
1345          .           .           .       P48iW
              .           .           .           .
              .           .           .           .
1348          .           .       C48iW............
              .           .           .
              .           .           .
1351          .           .           .         52g
              .           .           .           V
              .           .           .           V
1358          .           .           .       R52gS
              .           .           .           .
              .           .           .           .
1364          .           .           .           .         52i
              .           .           .           .           .
              .           .           .           .           .
1371          .           .        C52i........................
              .           .           .
              .           .           .
1377          .           .           .-------->   DB52i
1374          .           .        E52i
              .           .           .
              .           .           .
1382          .           .           .           .<--------   DB52i
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1380          .          .          .      BDB52i
              .          .          .          V
              .          .          .          V
1383          .          .          .        S52i
              .          .          .          .
              .          .          .          .
1389          .          .      CC52i............
              .          .          .
              .          .          .
1394          .          .          .-------->   D52iP
1392          .          .       D52i
              .          .          V
              .          .          V
1397          .          .      R52iS
              .          .          .
              .          .          .
1405          .          .          .<--------   D52iP
1403          .          .          .      BD52iP
              .          .          .          V
              .          .          .          V
1406          .          .          .       P52iS
              .          .          .          .
              .          .          .          .
1409          .          .      C52iS............
              .          .          .
              .          .          .
1412          .          .          .         24k
              .          .          .          .
              .          .          .          .
1421          .          .          .          .-------->   D24kS
1419          .          .          .       D24kW
              .          .          .          V
              .          .          .          V
1424          .          .          .       R24kW
              .          .          .          .
              .          .          .          .
1430          .          .          .          .       ARC40
              .          .          .          .          V
              .          .          .          .          V
1438          .          .          .          .      PARC40
              .          .          .          .          .
              .          .          .          .          .
1441          .          .          .          .          .         28k
              .          .          .          .          .           .
              .          .          .          .          .           .
1448          .          .          .        C28k.......................
              .          .          .          .
              .          .          .          .
1453          .          .          .          .-------->   D28kP
1451          .          .          .        D28k
              .          .          .          .
              .          .          .          .
1458          .          .          .          .-------->   D28kS
1456          .          .          .       D28kW
              .          .          .          V
              .          .          .          V
1461          .          .          .       R28kW
              .          .          .          .
              .          .          .          .
1467          .          .          .          .         32k
              .          .          .          .          .
              .          .          .          .          .
1474          .          .          .        C32k............
              .          .          .          .
              .          .          .          .
1479          .          .          .          .-------->   D32kP
1477          .          .          .        D32k
              .          .          .          .
              .          .          .          .
1484          .          .          .          .-------->   D32kS
1482          .          .          .       D32kW
              .          .          .          V
              .          .          .          V
1487          .          .          .       R32kW
              .          .          .          .
              .          .          .          .
1493          .          .          .          .         36k
              .          .          .          .          .
              .          .          .          .          .
1502          .          .          .          .          .           .<--------   D36iP
1500          .          .          .          .          .      BD36iP
              .          .          .          .          .          V
              .          .          .          .          .          V
1503          .          .          .          .          .       P36iS
              .          .          .          .          .           .
              .          .          .          .          .           .
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1508   .   .   .   .   .   .   .<-------   D36iS
1506   .   .   .   .   .   .   BD36iS
       .   .   .   .   .   .       V
       .   .   .   .   .   .       V
1509   .   .   .   .   .   .    R36iS
       .   .   .   .   .   .       .
       .   .   .   .   .   .       .
1515   .   .   .   .   .   C36iS............
       .   .   .   .   .   .
       .   .   .   .   .   .
1518   .   .   .   C36k......................
       .   .   .   .
       .   .   .   .
1523   .   .   .   .-------> D36kP
1521   .   .   .   D36k
       .   .   .   .
       .   .   .   .
1528   .   .   .   .-------> D36kS
1526   .   .   .   D36kW
       .   .   .       V
       .   .   .       V
1531   .   .   .   R36kW
       .   .   .   .
       .   .   .   .
1539   .   .   .   .   .<-------   D40iS
1537   .   .   .   .   BD40iS
       .   .   .   .       V
       .   .   .   .       V
1540   .   .   .   .   R40iS
       .   .   .   .       .
       .   .   .   .       .
1546   .   .   .   .       .   40k
       .   .   .   .       .     .
       .   .   .   .       .     .
1553   .   .   .   C40k......................
       .   .   .   .
       .   .   .   .
1558   .   .   .   .-------> D40kP
1556   .   .   .   D40k
       .   .   .   .
       .   .   .   .
1563   .   .   .   .-------> D40kS
1561   .   .   .   D40kW
       .   .   .       V
       .   .   .       V
1566   .   .   .   R40kW
       .   .   .   .
       .   .   .   .
1572   .   .   .   .   44k
       .   .   .   .     .
       .   .   .   .     .
1581   .   .   .   .     .   .<-------   D44iP
1579   .   .   .   .     .   BD44iP
       .   .   .   .     .       V
       .   .   .   .     .       V
1582   .   .   .   .     .   P44iS
       .   .   .   .     .       .
       .   .   .   .     .       .
1587   .   .   .   .     .   .   .<-------   D44iS
1585   .   .   .   .     .   .   BD44iS
       .   .   .   .     .   .       V
       .   .   .   .     .   .       V
1588   .   .   .   .     .   .    R44iS
       .   .   .   .     .   .       .
       .   .   .   .     .   .       .
1594   .   .   .   .     .   C44iS............
       .   .   .   .     .   .
       .   .   .   .     .   .
1597   .   .   .   C44k......................
       .   .   .   .
       .   .   .   .
1602   .   .   .   .-------> D44kP
1600   .   .   .   D44k
       .   .   .   .
       .   .   .   .
1607   .   .   .   .-------> D44kS
1605   .   .   .   D44kW
       .   .   .       V
       .   .   .       V
1610   .   .   .   R44kW
       .   .   .   .
       .   .   .   .
1616   .   .   .   .   48k
       .   .   .   .     V
       .   .   .   .     V
1623   .   .   .   .   S48k
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Metro ADMS/P 100-Year, 24-Hour Model

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                .          .          .          .          .
                .          .          .          .          .
1631            .          .          .          .          .          .<-------   D48iS
1629            .          .          .          .          .     BD48iS
                .          .          .          .          .          V
                .          .          .          .          .          V
1632            .          .          .          .          .      R48iS
                .          .          .          .          .          .
                .          .          .          .          .          .
1638            .          .          .       C48k.......................
                .          .          .          .
                .          .          .          .
1643            .          .          .          .-------->   D48kS
1641            .          .          .      D48kW
                .          .          .          V
                .          .          .          V
1646            .          .          .      R48kW
                .          .          .          .
                .          .          .          .
1652            .          .          .          .         52k
                .          .          .          .           .
                .          .          .          .           .
1659            .          .       C52k........................
                .          .          .
                .          .          .
1664            .          .          .-------->   D52kP
1662            .          .       D52k
                .          .          .
                .          .          .
1669            .          .          .-------->   D52kS
1667            .          .      D52kW
                .          .          V
                .          .          V
1672            .          .      R52kW
                .          .          .
                .          .          .
1680            .          .          .          .<-------   D54iP
1678            .          .          .     BD54iP
                .          .          .          V
                .          .          .          V
1681            .          .          .      P54iS
                .          .          .          .
                .          .          .          .
1686            .          .          .          .           .<-------   D54iS
1684            .          .          .          .     BD54iS
                .          .          .          .           V
                .          .          .          .           V
1687            .          .          .          .      R54iS
                .          .          .          .           .
                .          .          .          .           .
1693            .          .          .      C54iS............
                .          .          .          .
                .          .          .          .
1696            .          .          .          .         54k
                .          .          .          .           .
                .          .          .          .           .
1703            .          .       C54k........................
                .          .          .
                .          .          .
1708            .          .          .-------->   D54kP
1706            .          .       D54k
                .          .          .
                .          .          .
1713            .          .          .-------->   D54kS
1711            .          .      D54kW
                .          .          V
                .          .          V
1716            .          .      R54kW
                .          .          .
                .          .          .
1724            .          .          .          .<-------   D56iP
1722            .          .          .     BD56iP
                .          .          .          V
                .          .          .          V
1725            .          .          .      P56iS
                .          .          .          .
                .          .          .          .
1730            .          .          .          .           .<-------   D56iS
1728            .          .          .          .     BD56iS
                .          .          .          .           V
                .          .          .          .           V
1731            .          .          .          .      R56iS
                .          .          .          .           .
                .          .          .          .           .
1737            .          .          .      C56iS............
                .          .          .          .
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1740                                  56k
1747                C56k.......................

1752                                  .<-------   D60iP
1750                      BD60iP
1756                                  .------->  D60iP2
1753                      D60iP1
                                V
                                V
1759                      P60iS1

1764                                            .<-------  D60iP2
1762                                  B60iP2
                                            V
                                            V
1765                                  P60iS2

1770                                            .<-------   D60iS
1768                                        BD60iS
                                                V
                                                V
1771                                        R60iS

1777                       C60iS.......................

1780                                  60k

1787                        C60k............

1793                                  .------->    D60k
1790                       D60kP

1800                                  .------->  D60kP2
1796                      D60kP1
                                V
                                V
1803                       P60kE

1806                CC56k............

1811                    .------->   D56kP
1809                 D56k

1816                    .------->   D56kS
1814                D56kW
                    V
                    V
1819                R56kW

1827                                  .<-------    D60k
1825                       BD60k

1828                CC60k............

1833                    .------->   D60kS
1831                D60kW
                    V
                    V
1836                R60kW

1842                         64k

1851                                            .<-------   D64iS
1849                                  BD64iS
                                            V
```

```
                .           .           .           .           V
1852            .           .           .           .       R64iS
                .           .           .           .           .
                .           .           .           .           .
1858            .           .       C64k.......................
                .           .           V
                .           .           V
1861            .           .       S64k
                .           .           .
                .           .           .
1869            .           .           .           .<-------   D64iP
1867            .           .           .      BD64iP
                .           .           .           V
                .           .           .           V
1870            .           .           .       P64iS
                .           .           .           .
                .           .           .           .
1873            .           .      CC64k............
                .           .           .
                .           .           .
1878            .           .           .-------->  D64kP
1876            .           .       D64k
                .           .           .
                .           .           .
1883            .           .           .-------->  D64kS
1881            .           .      D64kW
                .           .           V
                .           .           V
1886            .           .      R64kW
                .           .           .
                .           .           .
1892            .           .           .        68k
                .           .           .           .
                .           .           .           .
1899            .       C68k........................
                .           .
                .           .
1904            .           .-------->  D68kP
1902            .       D68k
                .           .
                .           .
1909            .           .-------->  D68kS
1907            .      D68kW
                .           V
                .           V
1912            .      R68kW
                .           .
                .           .
1918            .           .        72k
                .           .           V
                .           .           V
1925            .           .       S72k
                .           .           .
                .           .           .
1933            .           .           .<-------  D72iP1
1931            .           .      B72iP1
                .           .           V
                .           .           V
1934            .           .       P72iS
                .           .           .
                .           .           .
1939            .           .           .           .<-------   D72iS
1937            .           .           .      BD72iS
                .           .           .           V
                .           .           .           V
1940            .           .           .       R72iS
                .           .           .           .
                .           .           .           .
1946            .           .       C72iS............
                .           .           .
                .           .           .
1949            .       C72k........................
                .           .
                .           .
1952       CC72k............
                .
                .
1957            .-------->  D72kP
1955        D72k
                .
                .
1962            .-------->  D72kS
1960       D72kW
                V
                V
1965       R72kW
```

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                .
                .
1973            .           .<-------   D76k1
1971            .       B76k1
                .           .
                .           .
1974        CC76k............
                .
                .
1979            .------->   D76kP
1977         D76k
                .
                .
1984            .------->   D76kS
1982        D76kW
                V
                V
1987        R76kW
                .
                .
1993            .         80k
                .           .
                .           .
2002            .           .           .<-------    D80i
2000            .           .       BD80i
                .           .           V
                .           .           V
2003            .           .       R80iS
                .           .           .
                .           .           .
2011            .           .           .           .<-------  D80kP1
2009            .           .           .      B80kP1
                .           .           .           .
                .           .           .           .
2012            .        C80k........................
                .           .
                .           .
2017            .           .------->   D80kP
2015            .        D80k
                .           .
                .           .
2020        CC80k............
                .
                .
2025            .------->   D80kS
2023        D80kW
                V
                V
2028        R80kW
                .
                .
2034            .         84k
                .           .
                .           .
2043            .           .           .<-------   D84iS
2041            .           .      BD84iS
                .           .           V
                .           .           V
2044            .           .       R84iS
                .           .           .
                .           .           .
2050         C84k........................
                V
                V
2053        R84kS
                .
                .
2059            .         84m
                .           .
                .           .
2066         C84m............
                .
                .
2069            .         I17
                .           .
                .           .
2078            .           .------->   D84mP
2076            .        D84m
                .           .
                .           .
2081        CC84m............
                .
                .
2086            .------->   D84mS
2084        D84mE
                V
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                V
2089        R84mE
                .
                .
2095            .          80m
                .            .
                .            .
2104            .            .            .<-------   D80kS
2102            .            .       BD80kS
                .            .            V
                .            .            V
2105            .            .        R80kS
                .            .            .
                .            .            .
2111         C80m.......................
                .
                .
2116            .------->   D80mS
2114        D80mE
                V
                V
2119        R80mE
                .
                .
2125            .          761
                .            .
                .            .
2134            .            .            .<-------   D80kP
2132            .            .       BD80kP
                .            .            .
                .            .            .
2137            .            .            .            .<-------   D76kP
2135            .            .            .       BD76kP
                .            .            .            .
                .            .            .            .
2138            .            .        C76kP............
                .            .            V
                .            .            V
2141            .            .        P76kS
                .            .            .
                .            .            .
2146            .            .            .            .<-------   D76kS
2144            .            .            .       BD76kS
                .            .            .            V
                .            .            .            V
2147            .            .            .        R76kS
                .            .            .            .
                .            .            .            .
2153            .            .        C76kS............
                .            .            .
                .            .            .
2156            .         C761............
                .            .
                .            .
2161            .            .------->   D761P
2159            .         D761
                .            V
                .            V
2164            .        R761S
                .            .
                .            .
2172            .            .            .<-------   D761P
2170            .            .       BD761P
                .            .            V
                .            .            V
2173            .            .        P761S
                .            .            .
                .            .            .
2176            .        C761S............
                .            .
                .            .
2179            .            .          76m
                .            .            V
                .            .            V
2186            .            .         S76m
                .            .            .
                .            .            .
2192         C76m.......................
                .
                .
2198            .------->    D76m
2195        D76mP
                .
                .
2204            .------->  D76mP2
2201       D76mP1
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                .
                .
2207            .         721
                .           .
                .           .
2216            .           .           .<-------   D72kP
2214            .           .      BD72kP
                .           .           V
                .           .           V
2217            .           .       P72kS
                .           .           .
                .           .           .
2222            .           .           .           .<-------   D72kS
2220            .           .           .      BD72kS
                .           .           .           V
                .           .           .           V
2223            .           .           .       R72kS
                .           .           .           .
                .           .           .           .
2229            .           .       C72kS............
                .           .           .
                .           .           .
2232            .        C721............
                .           .
                .           .
2237            .           .-------->   D721P
2235            .        D721
                .           V
                .           V
2240            .       R721S
                .           .
                .           .
2248            .           .           .<-------   D721P
2246            .           .      BD721P
                .           .           V
                .           .           V
2249            .           .       P721S
                .           .           .
                .           .           .
2252            .       C721S............
                .           .
                .           .
2255            .           .         72m
                .           .           .
                .           .           .
2262        C72m........................
                .
                .
2265            .         601
                .           .
                .           .
2274            .           .           .<-------  D60kP2
2272            .           .      B60kP2
                .           .           V
                .           .           V
2275            .           .       P60kS
                .           .           .
                .           .           .
2280            .           .           .           .<-------   D60kS
2278            .           .           .      BD60kS
                .           .           .           V
                .           .           .           V
2281            .           .           .       R60kS
                .           .           .           .
                .           .           .           .
2287            .           .       C60kS............
                .           .           .
                .           .           .
2290            .        C601............
                .           .
                .           .
2295            .           .-------->   D601P
2293            .        D601
                .           .
                .           .
2300            .           .-------->   D601S
2298            .       D601W
                .           V
                .           V
2303            .       R601W
                .           .
                .           .
2309            .           .         641
                .           .           .
                .           .           .
2318            .           .           .           .<-------   D64kS
```

```
2316          .          .          .      BD64kS
              .          .          .          V
              .          .          .          V
2319          .          .          .       R64kS
              .          .          .          .
              .          .          .          .
2325          .       C641.......................
              .          V
              .          V
2328          .       S641
              .          .
              .          .
2336          .          .          .<-------   D64kP
2334          .          .     BD64kP
              .          .          V
              .          .          V
2337          .          .      P64kS
              .          .          .
              .          .          .
2340          .      CC641............
              .          .
              .          .
2345          .          .------->   D641P
2343          .       D641
              .          .
              .          .
2350          .          .------->   D641S
2348          .      D641W
              .          V
              .          V
2353          .      R641W
              .          .
              .          .
2359          .          .        681
              .          .          .
              .          .          .
2368          .          .          .          .<-------   D68kP
2366          .          .          .      BD68kP
              .          .          .          V
              .          .          .          V
2369          .          .          .      P68kS
              .          .          .          .
              .          .          .          .
2374          .          .          .          .          .<-------   D68kS
2372          .          .          .          .     BD68kS
              .          .          .          .          V
              .          .          .          .          V
2375          .          .          .          .     R68kS
              .          .          .          .          .
              .          .          .          .          .
2381          .          .          .      C68kS............
              .          .          .          .
              .          .          .          .
2384          .       C681.......................
              .          .
              .          .
2389          .          .------->   D681P
2387          .       D681
              .          V
              .          V
2392          .      R681S
              .          .
              .          .
2400          .          .          .<-------   D681P
2398          .          .     BD681P
              .          .          V
              .          .          V
2401          .          .      P681S
              .          .          .
              .          .          .
2404          .      C681S............
              .          .
              .          .
2407          .          .        24m
              .          .          V
              .          .          V
2414          .          .       S24m
              .          .          .
              .          .          .
2422          .          .          .          .<-------   D24kS
2420          .          .          .      BD24kS
              .          .          .          V
              .          .          .          V
2423          .          .          .      R24kS
              .          .          .          .
              .          .          .          .
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2429          .          .        C24m............
              .          .           .
              .          .           .
2434          .          .           .-------->   D24mS
2432          .          .       D24mW
              .          .           V
              .          .           V
2437          .          .       R24mW
              .          .           .
              .          .           .
2443          .          .           .          28m
              .          .           .            .
              .          .           .            .
2452          .          .           .            .           .<-------   D28kP
2450          .          .           .            .      BD28kP
              .          .           .            .           V
              .          .           .            .           V
2453          .          .           .            .       P28kS
              .          .           .            .           .
              .          .           .            .           .
2458          .          .           .            .           .           .<-------   D28kS
2456          .          .           .            .           .      BD28kS
              .          .           .            .           .           V
              .          .           .            .           .           V
2459          .          .           .            .           .       R28kS
              .          .           .            .           .           .
              .          .           .            .           .           .
2465          .          .           .            .       C28kS............
              .          .           .            .           .
              .          .           .            .           .
2468          .          .        C28m........................
              .          .           .
              .          .           .
2473          .          .           .-------->   D28mP
2471          .          .        D28m
              .          .           .
              .          .           .
2478          .          .           .-------->   D28mS
2476          .          .       D28mW
              .          .           V
              .          .           V
2481          .          .       R28mW
              .          .           .
              .          .           .
2487          .          .           .          32m
              .          .           .            V
              .          .           .            V
2494          .          .           .         S32m
              .          .           .            .
              .          .           .            .
2502          .          .           .            .           .<-------   D32kP
2500          .          .           .            .      BD32kP
              .          .           .            .           V
              .          .           .            .           V
2503          .          .           .            .       P32kS
              .          .           .            .           .
              .          .           .            .           .
2508          .          .           .            .           .           .<-------   D32kS
2506          .          .           .            .           .      BD32kS
              .          .           .            .           .           V
              .          .           .            .           .           V
2509          .          .           .            .           .       R32kS
              .          .           .            .           .           .
              .          .           .            .           .           .
2515          .          .           .            .       C32kS............
              .          .           .            .           .
              .          .           .            .           .
2518          .          .        C32m........................
              .          .           .
              .          .           .
2523          .          .           .-------->   D32mP
2521          .          .        D32m
              .          .           .
              .          .           .
2528          .          .           .-------->   D32mS
2526          .          .       D32mW
              .          .           V
              .          .           V
2531          .          .       R32mW
              .          .           .
              .          .           .
2537          .          .           .          36m
              .          .           .            .
              .          .           .            .
2546          .          .           .            .           .<-------   D36kP
2544          .          .           .            .      BD36kP
```

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                 .         .         .         .         .         V
                 .         .         .         .         .         V
2547             .         .         .         .       P36kS
                 .         .         .         .         .         .
                 .         .         .         .         .         .
2552             .         .         .         .         .         .<-------   D36kS
2550             .         .         .         .         .     BD36kS
                 .         .         .         .         .         V
                 .         .         .         .         .         V
2553             .         .         .         .         .      R36kS
                 .         .         .         .         .         .
                 .         .         .         .         .         .
2559             .         .         .         .       C36kS............
                 .         .         .         .         .
                 .         .         .         .         .
2562             .         .       C36m........................
                 .         .         .
                 .         .         .
2567             .         .         .-------->   D36mP
2565             .         .       D36m
                 .         .         .
                 .         .         .
2572             .         .         .-------->   D36mS
2570             .         .      D36mW
                 .         .         V
                 .         .         V
2575             .         .      R36mW
                 .         .         .
                 .         .         .
2581             .         .         .         40m
                 .         .         .           .
                 .         .         .           .
2590             .         .         .           .         .<-------   D40kP
2588             .         .         .           .     BD40kP
                 .         .         .           .         V
                 .         .         .           .         V
2591             .         .         .           .       P40kS
                 .         .         .           .         .
                 .         .         .           .         .
2596             .         .         .           .         .<-------   D40kS
2594             .         .         .           .         .     BD40kS
                 .         .         .           .         .         V
                 .         .         .           .         .         V
2597             .         .         .           .         .      R40kS
                 .         .         .           .         .         .
                 .         .         .           .         .         .
2603             .         .         .           .         .       C40kS............
                 .         .         .           .         .         .
                 .         .         .           .         .         .
2606             .         .       C40m........................
                 .         .         .
                 .         .         .
2611             .         .         .-------->   D40mP
2609             .         .       D40m
                 .         .         .
                 .         .         .
2616             .         .         .-------->   D40mS
2614             .         .      D40mW
                 .         .         V
                 .         .         V
2619             .         .      R40mW
                 .         .         .
                 .         .         .
2625             .         .         .         44m
                 .         .         .           .
                 .         .         .           .
2634             .         .         .           .         .<-------   D44kP
2632             .         .         .           .     BD44kP
                 .         .         .           .         V
                 .         .         .           .         V
2635             .         .         .           .       P44kS
                 .         .         .           .         .
                 .         .         .           .         .
2640             .         .         .           .         .         .<-------   D44kS
2638             .         .         .           .         .     BD44kS
                 .         .         .           .         .         V
                 .         .         .           .         .         V
2641             .         .         .           .         .      R44kS
                 .         .         .           .         .         .
                 .         .         .           .         .         .
2647             .         .         .           .         .       C44kS............
                 .         .         .           .         .         .
                 .         .         .           .         .         .
2650             .         .       C44m........................
                 .         .         .
                 .         .         .
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2655          .             .             .-------->   D44mP
2653          .             .         D44m
              .             .             .
              .             .             .
2660          .             .             .-------->   D44mS
2658          .             .        D44mW
              .             .            V
              .             .            V
2663          .             .        R44mW
              .             .             .
              .             .             .
2669          .             .             .         24o
              .             .             .           .
              .             .             .           .
2678          .             .             .           .            .<-------   D24mS
2676          .             .             .           .      BD24mS
              .             .             .           .           V
              .             .             .           .           V
2679          .             .             .           .       R24mS
              .             .             .           .           .
              .             .             .           .           .
2685          .             .             .       C24o............
              .             .             .           .
              .             .             .           .
2690          .             .             .           .-------->   D24oP
2688          .             .             .       D24o
              .             .             .           .
              .             .             .           .
2695          .             .             .           .-------->   D24oS
2693          .             .             .      D24oW
              .             .             .          V
              .             .             .          V
2698          .             .             .      R24oW
              .             .             .           .
              .             .             .           .
2704          .             .             .           .         28o
              .             .             .           .           .
              .             .             .           .           .
2713          .             .             .           .           .            .<-------   D28mP
2711          .             .             .           .           .      BD28mP
              .             .             .           .           .           V
              .             .             .           .           .           V
2714          .             .             .           .           .       P28mS
              .             .             .           .           .           .
              .             .             .           .           .           .
2719          .             .             .           .           .           .            .<-------   D28mS
2717          .             .             .           .           .           .      BD28mS
              .             .             .           .           .           .           V
              .             .             .           .           .           .           V
2720          .             .             .           .           .           .       R28mS
              .             .             .           .           .           .           .
              .             .             .           .           .           .           .
2726          .             .             .           .           .           .       C28mS............
              .             .             .           .           .           .           .
              .             .             .           .           .           .           .
2729          .             .             .       C28o........................
              .             .             .           .
              .             .             .           .
2734          .             .             .           .-------->   D28oP
2732          .             .             .       D28o
              .             .             .           .
              .             .             .           .
2739          .             .             .           .-------->   D28oS
2737          .             .             .      D28oW
              .             .             .          V
              .             .             .          V
2742          .             .             .      R28oW
              .             .             .           .
              .             .             .           .
2748          .             .             .           .         32o
              .             .             .           .           .
              .             .             .           .           .
2757          .             .             .           .           .            .<-------   D32mS
2755          .             .             .           .           .      BD32mS
              .             .             .           .           .           V
              .             .             .           .           .           V
2758          .             .             .           .           .       R32mS
              .             .             .           .           .           .
              .             .             .           .           .           .
2766          .             .             .           .           .           .            .<-------   D32mP
2764          .             .             .           .           .           .      BD32mP
              .             .             .           .           .           .           V
              .             .             .           .           .           .           V
2767          .             .             .           .           .           .       P32mS
              .             .             .           .           .           .           .
              .             .             .           .           .           .           .
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Metro ADMS/P 100-Year, 24-Hour Model

```
2770          .           .           .           .           .       C32mS............
              .           .           .           .           .           .
              .           .           .           .           .           .
2773          .           .           .       C32o........................
              .           .           .           .
              .           .           .           .
2778          .           .           .           .-------->  D32oP
2776          .           .           .       D32o
              .           .           .           .
              .           .           .           .
2783          .           .           .           .-------->  D32oS
2781          .           .           .      D32oW
              .           .           .          V
              .           .           .          V
2786          .           .           .      R32oW
              .           .           .           .
              .           .           .           .
2792          .           .           .           .        36o
              .           .           .           .           .
              .           .           .           .           .
2801          .           .           .           .           .           .<-------   D36mP
2799          .           .           .           .           .      BD36mP
              .           .           .           .           .           V
              .           .           .           .           .           V
2802          .           .           .           .           .       P36mS
              .           .           .           .           .           .
              .           .           .           .           .           .
2807          .           .           .           .           .           .           .<-------   D36mS
2805          .           .           .           .           .           .      BD36mS
              .           .           .           .           .           .           V
              .           .           .           .           .           .           V
2808          .           .           .           .           .           .       R36mS
              .           .           .           .           .           .           .
              .           .           .           .           .           .           .
2814          .           .           .           .           .       C36mS............
              .           .           .           .           .           .
              .           .           .           .           .           .
2817          .           .           .       C36o........................
              .           .           .           .
              .           .           .           .
2822          .           .           .           .-------->  D36oP
2820          .           .           .       D36o
              .           .           .           .
              .           .           .           .
2827          .           .           .           .-------->  D36oS
2825          .           .           .      D36oW
              .           .           .          V
              .           .           .          V
2830          .           .           .      R36oW
              .           .           .           .
              .           .           .           .
2838          .           .           .           .           .<-------   D40mP
2836          .           .           .           .      B40mP
              .           .           .           .           V
              .           .           .           .           V
2839          .           .           .           .      P40mS
              .           .           .           .           .
              .           .           .           .           .
2844          .           .           .           .           .           .<-------   D40mS
2842          .           .           .           .           .      BD40mS
              .           .           .           .           .           V
              .           .           .           .           .           V
2845          .           .           .           .           .       R40mS
              .           .           .           .           .           .
              .           .           .           .           .           .
2851          .           .           .           .      C40mS............
              .           .           .           .           .
              .           .           .           .           .
2854          .           .           .           .           .        40o
              .           .           .           .           .           .
              .           .           .           .           .           .
2861          .           .           .       C40o........................
              .           .           .           .
              .           .           .           .
2866          .           .           .           .-------->  D40oP
2864          .           .           .       D40o
              .           .           .           .
              .           .           .           .
2871          .           .           .           .-------->  D40oS
2869          .           .           .      D40oW
              .           .           .          V
              .           .           .          V
2874          .           .           .      R40oW
              .           .           .           .
              .           .           .           .
2880          .           .           .           .        44o
```

```
2889                                                  .<-------   D44mP
2887                                            BD44mP
                                                     V
                                                     V
2890                                             P44mS
                                                     .
                                                     .
2895                                                 .           .<-------   D44mS
2893                                                 .      BD44mS
                                                     .           V
                                                     .           V
2896                                                 .       R44mS
                                                     .           .
                                                     .           .
2902                                             P44mS............
                                                     .
                                                     .
2905                                   C44o......................
                                                     .
                                                     .
2910                                                 .------->   D44oP
2908                                   D44o
                                                     .
                                                     .
2915                                                 .------->   D44oS
2913                                 D44oW
                                                     V
                                                     V
2918                                 R44oW
                                                     .
                                                     .
2924                         C44mW............
                                                     .
                                                     .
2927                                   48m
                                                     .
                                                     .
2936                                                 .           .<-------   D48kS
2934                                                 .      BD48kS
                                                     .           V
                                                     .           V
2937                                                 .       R48kS
                                                     .           .
                                                     .           .
2943                                  C48m......................
                                                     .
                                                     .
2948                                                 .<-------   D52kP
2946                                             BD52kP
                                                     V
                                                     V
2949                                             P52kS
                                                     .
                                                     .
2954                                                 .           .<-------   D52kS
2952                                                 .      BD52kS
                                                     .           V
                                                     .           V
2955                                                 .       R52kS
                                                     .           .
                                                     .           .
2961                                             C52kS............
                                                     .
                                                     .
2964                                                 .         52m
                                                     .           .
                                                     .           .
2971                                           C52m............
                                                     .
                                                     .
2974                         CC52m............
                                                     .
                                                     .
2980                                                 .------->   D52mP
2977                          D52m
                                                     .
                                                     .
2985                                                 .------->   D52mS
2983                         D52mW
                                                     V
                                                     V
2988                         R52mW
                                                     .
                                                     .
```

```
2994                                  54m
                                       .
                                       .
3003                                   .          .<-------   D54kP
3001                                   .     BD54kP
                                       .          V
                                       .          V
3004                                   .      P54kS
                                       .          .
                                       .          .
3009                                   .          .           .<-------   D54kS
3007                                   .          .      BD54kS
                                       .          .           V
                                       .          .           V
3010                                   .          .       R54kS
                                       .          .           .
                                       .          .           .
3016                                   .      C54kS............
                                       .          .
                                       .          .
3019                            C54m.......................
                                       .
                                       .
3024                                   .-------> D54mP
3022                            D54m
                                       .
                                       .
3029                                   .-------> D54mS
3027                            D54mW
                                    V
                                    V
3032                            R54mW
                                       .
                                       .
3038                                   .         56m
                                       .          .
                                       .          .
3047                                   .          .          .<-------   D56kP
3045                                   .          .     BD56kP
                                       .          .          V
                                       .          .          V
3048                                   .          .      P56kS
                                       .          .          .
                                       .          .          .
3053                                   .          .          .           .<-------   D56kS
3051                                   .          .          .      BD56kS
                                       .          .          .           V
                                       .          .          .           V
3054                                   .          .          .       R56kS
                                       .          .          .           .
                                       .          .          .           .
3060                                   .          .      C56kS............
                                       .          .          .
                                       .          .          .
3063                            C56m.......................
                                       .
                                       .
3068                                   .-------> D56mP
3066                            D56m
                                       .
                                       .
3073                                   .-------> D56mS
3071                            D56mW
                                    V
                                    V
3076                            R56mW
                                       .
                                       .
3082                                   .         60m
                                       .          .
                                       .          .
3091                                   .          .          .<-------   D601P
3089                                   .          .     BD601P
                                       .          .          V
                                       .          .          V
3092                                   .          .      P601S
                                       .          .          .
                                       .          .          .
3097                                   .          .          .           .<-------   D601S
3095                                   .          .          .      BD601S
                                       .          .          .           V
                                       .          .          .           V
3098                                   .          .          .       R601S
                                       .          .          .           .
                                       .          .          .           .
3104                                   .          .      C601S............
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                .          .          .          .          .
                .          .          .          .          .
3107            .          .       C60m.......................
                .          .          .
                .          .          .
3112            .          .          .-------->  D60mP
3110            .          .       D60m
                .          .          .
                .          .          .
3117            .          .          .-------->  D60mS
3115            .          .      D60mW
                .          .          V
                .          .          V
3120            .          .      R60mW
                .          .          .
                .          .          .
3126            .          .          .        64m
                .          .          .          .
                .          .          .          .
3135            .          .          .          .          .<-------   D641P
3133            .          .          .          .     BD641P
                .          .          .          .          V
                .          .          .          .          V
3136            .          .          .          .      P641S
                .          .          .          .          .
                .          .          .          .          .
3141            .          .          .          .          .          .<-------   D641S
3139            .          .          .          .          .     BD641S
                .          .          .          .          .          V
                .          .          .          .          .          V
3142            .          .          .          .          .      R641S
                .          .          .          .          .          .
                .          .          .          .          .          .
3148            .          .          .          .      C641S............
                .          .          .          .          .
                .          .          .          .          .
3151            .          .          .          .          .        68m
                .          .          .          .          .          .
                .          .          .          .          .          .
3161            .          .          .          .          .          .-------->   D68m
3158            .          .          .          .          .     D68mP2
                .          .          .          .          .          .
                .          .          .          .          .          .
3164            .          .       C64m.................................
                .          .          .
                .          .          .
3169            .          .          .-------->  D64mP
3167            .          .       D64m
                .          .          .
                .          .          .
3174            .          .          .-------->  D64mS
3172            .          .      D64mW
                .          .          V
                .          .          V
3177            .          .      R64mW
                .          .          .
                .          .          .
3185            .          .          .          .<-------   D68m
3183            .          .          .       BD68m
                .          .          .          .
                .          .          .          .
3186            .       C68m........................
                .          .
                .          .
3191            .          .-------->  D68mP
3189            .      D68m2
                .          .
                .          .
3196            .          .-------->  D68mS
3194            .      D68mW
                .          V
                .          V
3199            .      R68mW
                .          .
                .          .
3205         CC72m............
                .
                .
3210            .-------->  D72mP
3208         D72m
                V
                V
3213         R72mS
                .
                .
3221            .          .<-------   D72mP
```

```
3219          .      BD72mP
              .           V
              .           V
3222          .       P72mS
              .           .
              .           .
3225      C72mS............
              .
              .
3230          .           .<-------   D24oS
3228          .      BD24oS
              .           V
              .           V
3231          .       R24oS
              .           .
              .           .
3239          .           .           .<-------   D28oP
3237          .           .      BD28oP
              .           .           V
              .           .           V
3240          .           .       P28oS
              .           .           .
              .           .           .
3245          .           .           .           .<-------   D28oS
3243          .           .           .      BD28oS
              .           .           .           V
              .           .           .           V
3246          .           .           .       R28oS
              .           .           .           .
              .           .           .           .
3252          .           .       C28oS............
              .           .           .
              .           .           .
3255          .        C28p............
              .           .
              .           .
3258          .           .         28p
              .           .           V
              .           .           V
3265          .           .        S28p
              .           .           .
              .           .           .
3271          .       CC28p............
              .           .
              .           .
3277          .           .------->   D28pP
3274          .        D28p
              .           V
              .           V
3280          .       R28pW
              .           .
              .           .
3286          .           .         32p
              .           .           .
              .           .           .
3295          .           .           .           .<-------   D32oS
3293          .           .           .      BD32oS
              .           .           .           V
              .           .           .           V
3296          .           .           .       R32oS
              .           .           .           .
              .           .           .           .
3302          .           .        C32p............
              .           .           V
              .           .           V
3305          .           .        S32p
              .           .           .
              .           .           .
3314          .           .           .           .<-------   D32oP
3312          .           .           .      BD32oP
              .           .           .           V
              .           .           .           V
3315          .           .           .       P32oS
              .           .           .           .
              .           .           .           .
3318          .       CC32p........................
              .           .
              .           .
3323          .           .------->   D32pS
3321          .       D32pW
              .           .
              .           .
3328          .           .------->   D32pP
3326          .        D32p
              .           V
              .           V
```

```
3331          .       R32pW
              .           .
              .           .
3339          .           .           .<-------   D32pP
3337          .           .      BD32pP
              .           .           V
              .           .           V
3340          .           .       P32pW
              .           .           .
              .           .           .
3343          .       C32pW............
              .           .
              .           .
3346          .           .         28q
              .           .           V
              .           .           V
3353          .           .        S28q
              .           .           .
              .           .           .
3361          .           .           .           .<-------   D28pP
3359          .           .           .      BD28pP
              .           .           .           .
              .           .           .           .
3364          .           .           .           .-------> D28pP2
3362          .           .           .      D28pP1
              .           .           .           V
              .           .           .           V
3367          .           .           .       P28pS
              .           .           .           .
              .           .           .           .
3370          .           .        C28q............
              .           .           .
              .           .           .
3376          .           .           .------->   D28qP
3373          .           .        D28q
              .           .           .
              .           .           .
3381          .           .           .------->   D28qS
3379          .           .       D28qW
              .           .           V
              .           .           V
3384          .           .       R28qW
              .           .           .
              .           .           .
3390          .           .           .         32q
              .           .           .           .
              .           .           .           .
3399          .           .           .           .           .<-------   D32pS
3397          .           .           .           .      BD32pS
              .           .           .           .           .
              .           .           .           .           .
3400          .           .        C32q........................
              .           .           V
              .           .           V
3403          .           .        S32q
              .           .           .
              .           .           .
3413          .           .           .------->    D32q
3410          .           .       D32qP
              .           .           V
              .           .           V
3416          .           .       P32qW
              .           .           .
              .           .           .
3419          .       C32pqW............
              .           .
              .           .
3422          .           .         36p
              .           .           .
              .           .           .
3431          .           .           .           .<-------   D36oS
3429          .           .           .      BD36oS
              .           .           .           V
              .           .           .           V
3432          .           .           .       R36oS
              .           .           .           .
              .           .           .           .
3438          .         C36p........................
              .           .
              .           .
3443          .           .------->   DB36p
3441          .         E36p
              .           .
              .           .
3448          .           .           .<-------   DB36p
3446          .           .      BDB36p
```

```
                 .          .          V
                 .          .          V
3449             .          .       S36p
                 .          .          .
                 .          .          .
3459             .          .          .          .<-------   D36oP
3457             .          .          .     BD36oP
                 .          .          .          V
                 .          .          .          V
3460             .          .          .      P36oS
                 .          .          .          .
                 .          .          .          .
3463             .      CC36p.......................
                 .          .
                 .          .
3468             .          .-------->  D36pP
3466             .       D36p
                 .          V
                 .          V
3471             .      R36pW
                 .          .
                 .          .
3479             .          .          .<-------   D36pP
3477             .          .     BD36pP
                 .          .          .
                 .          .          .
3482             .          .          .-------->  D36pP2
3480             .          .     D36pP1
                 .          .          V
                 .          .          V
3485             .          .      P36pW
                 .          .          .
                 .          .          .
3488             .      C36pW............
                 .          .
                 .          .
3491             .          .       40p
                 .          .          .
                 .          .          .
3500             .          .          .          .<-------   D40oP
3498             .          .          .     BD40oP
                 .          .          .          V
                 .          .          .          V
3501             .          .          .      P40oS
                 .          .          .          .
                 .          .          .          .
3506             .          .          .          .          .<-------   D40oS
3504             .          .          .          .     BD40oS
                 .          .          .          .          V
                 .          .          .          .          V
3507             .          .          .          .      R40oS
                 .          .          .          .          .
                 .          .          .          .          .
3513             .          .          .      C40oS............
                 .          .          .          .
                 .          .          .          .
3516             .       C40p.......................
                 .          .
                 .          .
3521             .          .-------->  D40pP
3519             .       D40p
                 .          V
                 .          V
3524             .      R40pW
                 .          .
                 .          .
3532             .          .          .<-------   D40pP
3530             .          .     BD40pP
                 .          .          V
                 .          .          V
3533             .          .      P40pW
                 .          .          .
                 .          .          .
3537             .      C40pW............
                 .          .
                 .          .
3540             .          .       44p
                 .          .          .
                 .          .          .
3549             .          .          .          .<-------   D44oP
3547             .          .          .     BD44oP
                 .          .          .          V
                 .          .          .          V
3550             .          .          .      P44oS
                 .          .          .          .
                 .          .          .          .
```

```
3555          .          .          .          .          .<-------   D44oS
3553          .          .          .          .      BD44oS
              .          .          .          .          V
              .          .          .          .          V
3556          .          .          .          .      R44oS
              .          .          .          .          .
              .          .          .          .          .
3562          .          .          .      C44oS............
              .          .          .          .
              .          .          .          .
3565          .      C44p........................
              .          .
              .          .
3570          .          .------->   D44pP
3568          .      D44p
              .          V
              .          V
3573          .     R44pW
              .          .
              .          .
3581          .          .          .<-------   D44pP
3579          .          .     BD44pP
              .          .          .
              .          .          .
3584          .          .          .------->  D44pP2
3582          .          .     D44pP1
              .          .          V
              .          .          V
3587          .          .      P44pW
              .          .          .
              .          .          .
3591          .     C44pW............
              .          .
              .          .
3594          .          .        48o
              .          .          .
              .          .          .
3603          .          .          .          .<-------   D52mS
3601          .          .          .     BD52mS
              .          .          .          V
              .          .          .          V
3604          .          .          .      R52mS
              .          .          .          .
              .          .          .          .
3612          .          .          .          .          .<-------   D52mP
3610          .          .          .          .      BD52mP
              .          .          .          .          V
              .          .          .          .          V
3613          .          .          .          .      P52mS
              .          .          .          .          .
              .          .          .          .          .
3616          .          .          .      C52mS............
              .          .          .          .
              .          .          .          .
3619          .      C48o........................
              .          .
              .          .
3624          .          .------->   DB48o
3622          .      E48o
              .          .
              .          .
3629          .          .          .<-------   DB48o
3627          .          .     BDB48o
              .          .          V
              .          .          V
3630          .          .       S48o
              .          .          .
              .          .          .
3638          .     CC48o............
              .          .
              .          .
3643          .          .------->  D48oPT
3641          .      D48o
              .          V
              .          V
3646          .     R48oW
              .          .
              .          .
3653          .          .        52o
              .          .          .
              .          .          .
3662          .          .          .          .<-------   D54mP
3660          .          .          .     BD54mP
              .          .          .          V
              .          .          .          V
3663          .          .          .      P54mS
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                .          .          .
                .          .          .
3668            .          .          .          .<-------   D54mS
3666            .          .          .      BD54mS
                .          .          .          V
                .          .          .          V
3669            .          .          .       R54mS
                .          .          .          .
                .          .          .          .
3675            .          .       C54mS............
                .          .          .
                .          .          .
3678            .       C52o........................
                .          .
                .          .
3684            .          .-------->   D52oP
3681            .       D52o
                .          V
                .          V
3687            .      R52oW
                .          .
                .          .
3695            .          .<-------   D52oP
3693            .          .     BD52oP
                .          .          V
                .          .          V
3696            .          .      P52oW
                .          .          .
                .          .          .
3699            .      C52oW............
                .          .
                .          .
3702            .          .        56o
                .          .          .
                .          .          .
3711            .          .          .          .<-------   D56mP
3709            .          .          .      BD56mP
                .          .          .          V
                .          .          .          V
3712            .          .          .      P56mS
                .          .          .          .
                .          .          .          .
3717            .          .          .          .<-------   D56mS
3715            .          .          .      BD56mS
                .          .          .          V
                .          .          .          V
3718            .          .          .       R56mS
                .          .          .          .
                .          .          .          .
3724            .          .          .      C56mS............
                .          .          .          .
                .          .          .          .
3727            .       C56o........................
                .          .
                .          .
3733            .          .-------->   D56oP
3730            .       D56o
                .          V
                .          V
3736            .      R56oW
                .          .
                .          .
3744            .          .<-------   D56oP
3742            .          .     BD56oP
                .          .          V
                .          .          V
3745            .          .      P56oW
                .          .          .
                .          .          .
3749            .      C56oW............
                .          .
                .          .
3752            .          .        60o
                .          .          .
                .          .          .
3761            .          .          .          .<-------   D60mP
3759            .          .          .      BD60mP
                .          .          .          V
                .          .          .          V
3762            .          .          .      P60mS
                .          .          .          .
                .          .          .          .
3767            .          .          .          .<-------   D60mS
3765            .          .          .      BD60mS
                .          .          .          V
                .          .          .          V
```

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3768          .           .           .           .       R60mS
              .           .           .           .           .
              .           .           .           .           .
3774          .           .           .       C60mS............
              .           .           .           .
              .           .           .           .
3777          .       C60o........................
              .           .
              .           .
3783          .           .-------> D60oPT
3780          .       D60o
              .          V
              .          V
3786          .      R60oW
              .           .
              .           .
3792          .           .        64o
              .           .         V
              .           .         V
3799          .           .       S64o
              .           .           .
              .           .           .
3807          .           .           .<-------   D64mP
3805          .           .      BD64mP
              .           .           V
              .           .           V
3808          .           .       P64mS
              .           .           .
              .           .           .
3813          .           .           .           .<-------   D64mS
3811          .           .           .      BD64mS
              .           .           .           V
              .           .           .           V
3814          .           .           .       R64mS
              .           .           .           .
              .           .           .           .
3820          .           .       C64mS............
              .           .           .
              .           .           .
3823          .       C64o........................
              .           .
              .           .
3829          .           .-------> D64oPT
3826          .       D64o
              .          V
              .          V
3832          .      R64oW
              .           .
              .           .
3838          .           .        68o
              .           .         V
              .           .         V
3845          .           .       S68o
              .           .           .
              .           .           .
3853          .           .           .<-------   D68mP
3851          .           .      BD68mP
              .           .           V
              .           .           V
3854          .           .       P68mS
              .           .           .
              .           .           .
3859          .           .           .           .<-------   D68mS
3857          .           .           .      BD68mS
              .           .           .           V
              .           .           .           V
3860          .           .           .       R68mS
              .           .           .           .
              .           .           .           .
3866          .           .       C68mS............
              .           .           .
              .           .           .
3869          .       C68o........................
              .           .
              .           .
3875          .           .-------> D68oPT
3872          .       D68o
              .          V
              .          V
3878          .      R68oW
              .           .
              .           .
3884          .           .        72o
              .           .           .
              .           .           .
3891      C72o........................
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                .
                .
3896            .-------> D72oP
3894        D72o
               V
               V
3899        S72o
                .
                .
3907            .-------> D72o1
3905      D72oPT
               V
               V
3910      PT72oE
                .
                .
3915            .          .<-------  D68oPT
3913            .      B68oPT
                .          .
                .          .
3916      CPT68o............
               V
               V
3919      PT68oE
                .
                .
3924            .          .<-------   D72o1
3922            .      BD72o1
                .          .
                .          .
3928            .          .-------> D72oW
3925            .       D72oE
                .          V
                .          V
3931            .       S-I10
                .          .
                .          .
3941            .          .          .<-------  D64oPT
3939            .          .      B64oPT
                .          .          .
                .          .          .
3944            .          .          .          .<-------  D60oPT
3942            .          .          .      B60oPT
                .          .          .          V
                .          .          .          V
3945            .          .          .      PT60oW
                .          .          .          .
                .          .          .          .
3948        C-WT.................................
               V
               V
3952       PT64o
                .
                .
3957            .-------> DPT64o
3955      DN_64o
                .
                .
3960            .         36q
                .          .
                .          .
3969            .          .          .<-------    D32q
3967            .          .       BD32q
                .          .          V
                .          .          V
3970            .          .       R32qS
                .          .          .
                .          .          .
3978            .          .          .          .<-------  D36pP2
3976            .          .          .      B36pP2
                .          .          .          V
                .          .          .          V
3979            .          .          .       P36pS
                .          .          .          .
                .          .          .          .
3983            .        C36q......................
                .          .
                .          .
3988            .          .-------> D36qP
3986            .        D36q
                .          .
                .          .
3993            .          .-------> D36qS
3991            .       D36qW
                .          V
                .          V
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3996          .      R36qW
              .          .
              .          .
4002          .          .         40q
              .          .           .
              .          .           .
4009          .       C40q............
              .          .
              .          .
4014          .          .-------->   D40qP
4012          .       D40q
              .          .
              .          .
4019          .          .-------->   D40qS
4017          .      D40qW
              .          V
              .          V
4022          .      R40qW
              .          .
              .          .
4030          .          .           .<-------   D40qP
4028          .          .     BD40qP
              .          .           V
              .          .           V
4031          .          .      P40qW
              .          .           .
              .          .           .
4034          .      C40qW............
              .          .
              .          .
4037          .          .         44q
              .          .           .
              .          .           .
4046          .          .           .           .<-------  D44pP2
4044          .          .           .     B44pP2
              .          .           .           V
              .          .           .           V
4047          .          .           .      P44pS
              .          .           .           .
              .          .           .           .
4050          .       C44q........................
              .          .
              .          .
4055          .          .-------->   D44qP
4053          .       D44q
              .          .
              .          .
4060          .          .-------->   D44qS
4058          .      D44qW
              .          V
              .          V
4063          .      R44qW
              .          .
              .          .
4069          .          .         48q
              .          .           .
              .          .           .
4076          .       C48q............
              .          .
              .          .
4082          .          .-------->  D48qPT
4079          .      DB48q
              .          V
              .          V
4085          .       S48q
              .          .
              .          .
4093          .          .-------->   D48qS
4091          .      D48qW
              .          V
              .          V
4096          .      R48qW
              .          .
              .          .
4102          .          .         52q
              .          .           .
              .          .           .
4109          .       C52q............
              .          .
              .          .
4114          .          .-------->   D52qP
4112          .       D52q
              .          .
              .          .
4119          .          .-------->   D52qS
4117          .      D52qW
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                .          V
                .          V
4122            .      R52qW
                .          .
                .          .
4128            .          .         56q
                .          .           .
                .          .           .
4135            .       C56q............
                .          .
                .          .
4140            .          .-------->   D56qP
4138            .       D56q
                .          .
                .          .
4145            .          .-------->   D56qS
4143            .      D56qW
                .          V
                .          V
4148            .      R56qW
                .          .
                .          .
4154            .          .         60q
                .          .           .
                .          .           .
4161            .       C60q............
                .          .
                .          .
4166            .          .-------->   D60qP
4164            .       D60q
                .          .
                .          .
4171            .          .-------->   D60qS
4169            .      D60qW
                .          V
                .          V
4174            .      R60qW
                .          .
                .          .
4180            .          .         64q
                .          .           .
                .          .           .
4187         C64q........................
                .
                .
4193            .-------->  D64qPT
4190         D64q
                .
                .
4198            .-------->   D64qP
4196        D64q1
                .
                .
4203            .-------->   D64qS
4201        D64qW
                V
                V
4206        R64qW
                .
                .
4214            .          .<--------   D64qP
4212            .      BD64qP
                .          V
                .          V
4215            .      P64qW
                .          .
                .          .
4218        C64qW............
                .
                .
4221            .         68q
                .          .
                .          .
4228         C68q............
                .
                .
4233            .-------->   D68qP
4231         D68q
                .
                .
4238            .-------->   D68qS
4236        D68qW
                V
                V
4241        R68qW
                .
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                .
4249            .           .<-------   D68qP
4247            .      BD68qP
                .           V
                .           V
4250            .       P68qW
                .           .
                .           .
4253        C68qW............
                .
                .
4256            .         72q
                .           .
                .           .
4265            .           .           .<-------   D72oP
4263            .           .       B72oP
                .           .           V
                .           .           V
4266            .           .       P72oS
                .           .           .
                .           .           .
4269         C72q........................
                .
                .
4274            .------->   D72qP
4272         D72q
                .
                .
4279            .------->   D72qS
4277        D72qW
                V
                V
4282        R72qW
                .
                .
4288            .         80o
                .           .
                .           .
4297            .           .           .<-------   D84mP
4295            .           .      BD84mP
                .           .           V
                .           .           V
4298            .           .       P84mS
                .           .           .
                .           .           .
4303            .           .           .           .<-------   D84mS
4301            .           .           .      BD84mS
                .           .           .           V
                .           .           .           V
4304            .           .           .       R84mS
                .           .           .           .
                .           .           .           .
4310            .           .       C84mS............
                .           .           .
                .           .           .
4315            .           .           .           .<-------   D80mS
4313            .           .           .      BD80mS
                .           .           .           V
                .           .           .           V
4316            .           .           .       R80mS
                .           .           .           .
                .           .           .           .
4322            .        C80o........................
                .           .
                .           .
4327            .           .------->   DB80o
4325            .        E80o
                .           .
                .           .
4332            .           .           .<-------   DB80o
4330            .           .      BDB80o
                .           .           V
                .           .           V
4333            .           .        S80o
                .           .           .
                .           .           .
4339            .       CC80o............
                .           .
                .           .
4344            .           .------->   D80oP
4342            .        D80o
                .           V
                .           V
4347            .       R80oS
                .           .
                .           .
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4353          .           .         76o
              .           .           .
              .           .           .
4362          .           .           .          .<-------    D76m
4360          .           .           .      BD76m
              .           .           .          V
              .           .           .          V
4363          .           .           .      R76mS
              .           .           .          .
              .           .           .          .
4371          .           .           .          .           .<-------  D76mP2
4369          .           .           .          .      B76mP2
              .           .           .          .           V
              .           .           .          .           V
4372          .           .           .          .       P76mS
              .           .           .          .           .
              .           .           .          .           .
4375          .           .           .      C76mS............
              .           .           .          .
              .           .           .          .
4380          .           .           .          .           .<-------   D72oW
4378          .           .           .          .      BD72oW
              .           .           .          .           V
              .           .           .          .           V
4381          .           .           .          .       R72oW
              .           .           .          .           .
              .           .           .          .           .
4387          .        C76o...................................
              .           .
              .           .
4392          .           .------->    D76o
4390          .       D76oP
              .           V
              .           V
4395          .       P76oS
              .           .
              .           .
4400          .           .           .<-------    D76o
4398          .           .       BD76o
              .           .           .
              .           .           .
4403          .           .           .------->   D76oW
4401          .           .       D76oS
              .           .           V
              .           .           V
4406          .           .       R76oS
              .           .           .
              .           .           .
4412          .       C76oS............
              .           .
              .           .
4415          .           .         76q
              .           .           .
              .           .           .
4422       C76q........................
              .
              .
4427          .------->   D76qP
4425       D76q
              .
              .
4432          .------->   D76qS
4430      D76qW
              V
              V
4435      R76qW
              .
              .
4441          .         80p
              .           .
              .           .
4450          .           .           .<-------   D76oW
4448          .           .      BD76oW
              .           .           V
              .           .           V
4451          .           .       R76oW
              .           .           .
              .           .           .
4457          .        C80p............
              .           V
              .           V
4460          .        S80p
              .           .
              .           .
4468          .           .           .<-------   D80oP
4466          .           .      BD80oP
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                .           .           V
                .           .           V
4469            .           .       P80oS
                .           .           .
                .           .           .
4472            .       CC80p............
                .           .
                .           .
4477            .           .------->   D80pP
4475            .        D80p
                .           V
                .           V
4480            .       R80pS
                .           .
                .           .
4488            .           .           .<-------   D80pP
4486            .           .      BD80pP
                .           .           V
                .           .           V
4489            .           .       P80pS
                .           .           .
                .           .           .
4492            .       C80pS............
                .           .
                .           .
4495            .           .         80q
                .           .           .
                .           .           .
4502        C80q........................
                .
                .
4505            .         28s
                .           .
                .           .
4514            .           .           .<-------   D28qP
4512            .           .      BD28qP
                .           .           .
                .           .           .
4517            .           .           .------->  D28qP2
4515            .           .      D28qP1
                .           .           V
                .           .           V
4520            .           .       P28qS
                .           .           .
                .           .           .
4525            .           .           .           .<-------   D28qS
4523            .           .           .      BD28qS
                .           .           .           V
                .           .           .           V
4526            .           .           .       R28qS
                .           .           .           .
                .           .           .           .
4532            .           .       C28qS............
                .           .           .
                .           .           .
4535            .        C28s............
                .           .
                .           .
4540            .           .------->   D28sP
4538            .        D28s
                .           .
                .           .
4545            .           .------->   D28sS
4543            .       D28sW
                .           V
                .           V
4548            .       R28sW
                .           .
                .           .
4554            .           .         32s
                .           .           .
                .           .           .
4561            .        C32s............
                .           V
                .           V
4564            .       S32s
                .           .
                .           .
4572            .           .------->   D32sP
4570            .        D32s
                .           V
                .           V
4575            .       R32sW
                .           .
                .           .
4583            .           .           .<-------   D32sP
```

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4581          .           .      BD32sP
              .           .           V
              .           .           V
4584          .           .       P32sW
              .           .           .
              .           .           .
4587          .       C32sW............
              .           .
              .           .
4590          .           .         36s
              .           .           .
              .           .           .
4599          .           .           .           .<-------   D36qP
4597          .           .           .      BD36qP
              .           .           .           V
              .           .           .           V
4600          .           .           .       P36qS
              .           .           .           .
              .           .           .           .
4605          .           .           .           .           .<-------   D36qS
4603          .           .           .           .      BD36qS
              .           .           .           .           V
              .           .           .           .           V
4606          .           .           .           .       R36qS
              .           .           .           .           .
              .           .           .           .           .
4612          .           .           .       C36qS............
              .           .           .           .
              .           .           .           .
4615          .       C36s........................
              .           .
              .           .
4620          .           .------->   D36sP
4618          .       D36s
              .           V
              .           V
4623          .       R36sW
              .           .
              .           .
4629          .           .         40s
              .           .           .
              .           .           .
4638          .           .           .           .<-------   D40qS
4636          .           .           .      BD40qS
              .           .           .           V
              .           .           .           V
4639          .           .           .       R40qS
              .           .           .           .
              .           .           .           .
4645          .       C40s........................
              .           .
              .           .
4650          .           .------->   D40sP
4648          .       D40s
              .           V
              .           V
4653          .       R40sW
              .           .
              .           .
4661          .           .           .<-------   D40sP
4659          .           .      BD40sP
              .           .           V
              .           .           V
4662          .           .       P40sW
              .           .           .
              .           .           .
4665          .       C40sW............
              .           .
              .           .
4668          .           .         44s
              .           .           .
              .           .           .
4677          .           .           .           .<-------   D44qP
4675          .           .           .      BD44qP
              .           .           .           V
              .           .           .           V
4678          .           .           .       P44qS
              .           .           .           .
              .           .           .           .
4683          .           .           .           .           .<-------   D44qS
4681          .           .           .           .      BD44qS
              .           .           .           .           V
              .           .           .           .           V
4684          .           .           .           .       R44qS
              .           .           .           .           .
              .           .           .           .           .
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4690          .           .           .       C44qS............
              .           .           .           .
              .           .           .           .
4693          .        C44s........................
              .           .
              .           .
4698          .           .-------->   D44sP
4696          .        D44s
              .           V
              .           V
4701          .       R44sW
              .           .
              .           .
4707          .           .         48s
              .           .           .
              .           .           .
4716          .           .           .           .<-------   D48qS
4714          .           .           .      BD48qS
              .           .           .           V
              .           .           .           V
4717          .           .           .       R48qS
              .           .           .           .
              .           .           .           .
4723          .        C48s........................
              .           .
              .           .
4729          .           .-------->   D48sPT
4726          .       DB48s
              .           V
              .           V
4732          .        S48s
              .           V
              .           V
4738          .       R48sW
              .           .
              .           .
4744          .           .         52s
              .           .           .
              .           .           .
4753          .           .           .           .<-------   D52qP
4751          .           .           .      BD52qP
              .           .           .           V
              .           .           .           V
4754          .           .           .       P52qS
              .           .           .           .
              .           .           .           .
4759          .           .           .           .           .<-------   D52qS
4757          .           .           .           .      BD52qS
              .           .           .           .           V
              .           .           .           .           V
4760          .           .           .           .       R52qS
              .           .           .           .           .
              .           .           .           .           .
4766          .           .           .       C52qS............
              .           .           .           .
              .           .           .           .
4769          .        C52s........................
              .           .
              .           .
4774          .           .-------->   D52sP
4772          .        D52s
              .           V
              .           V
4777          .       R52sW
              .           .
              .           .
4783          .           .         56s
              .           .           .
              .           .           .
4792          .           .           .           .<-------   D56qP
4790          .           .           .      BD56qP
              .           .           .           V
              .           .           .           V
4793          .           .           .       P56qS
              .           .           .           .
              .           .           .           .
4798          .           .           .           .           .<-------   D56qS
4796          .           .           .           .      BD56qS
              .           .           .           .           V
              .           .           .           .           V
4799          .           .           .           .       R56qS
              .           .           .           .           .
              .           .           .           .           .
4805          .           .           .       C56qS............
              .           .           .           .
              .           .           .           .
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4808          .        C56s.......................
              .           .
              .           .
4813          .           .-------->   D56sP
4811          .        D56s
              .           .
              .           .
4818          .           .-------->   D56sS
4816          .       D56sW
              .           V
              .           V
4821          .       R56sW
              .           .
              .           .
4827          .           .         60s
              .           .           .
              .           .           .
4836          .           .           .           .<-------   D60qP
4834          .           .           .      BD60qP
              .           .           .           V
              .           .           .           V
4837          .           .           .       P60qS
              .           .           .           .
              .           .           .           .
4842          .           .           .           .           .<-------   D60qS
4840          .           .           .           .      BD60qS
              .           .           .           .           V
              .           .           .           .           V
4843          .           .           .           .       R60qS
              .           .           .           .           .
              .           .           .           .           .
4849          .           .           .       C60qS............
              .           .           .           .
              .           .           .           .
4852          .        C60s.......................
              .           .
              .           .
4857          .           .-------->   D60sP
4855          .        D60s
              .           .
              .           .
4862          .           .-------->   D60sS
4860          .       D60sW
              .           V
              .           V
4865          .       R60sW
              .           .
              .           .
4873          .           .           .<-------   D60sP
4871          .           .      BD60sP
              .           .           V
              .           .           V
4874          .           .       P60sW
              .           .           .
              .           .           .
4877          .       C60sW............
              .           .
              .           .
4880          .           .         64s
              .           .           .
              .           .           .
4889          .           .           .           .<-------   D64qS
4887          .           .           .      BD64qS
              .           .           .           V
              .           .           .           V
4890          .           .           .       R64qS
              .           .           .           .
              .           .           .           .
4896          .        C64s.......................
              .           .
              .           .
4902          .           .-------->  D64sPT
4899          .        D64s
              .           .
              .           .
4908          .           .-------->   D64sP
4905          .       D64s1
              .           .
              .           .
4913          .           .-------->   D64sS
4911          .       D64sW
              .           V
              .           V
4916          .       R64sW
              .           .
              .           .
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4922          .           .         68s
              .           .           .
              .           .           .
4931          .           .           .           .<-------   D68qS
4929          .           .           .      BD68qS
              .           .           .           V
              .           .           .           V
4932          .           .           .       R68qS
              .           .           .           .
              .           .           .           .
4938          .        C68s.......................
              .           .
              .           .
4943          .           .------->   D68sP
4941          .        D68s
              .           .
              .           .
4948          .           .------->   D68sS
4946          .       D68sW
              .           V
              .           V
4951          .       R68sW
              .           .
              .           .
4957          .           .         72s
              .           .           .
              .           .           .
4967          .           .           .           .<-------   D72qP
4964          .           .           .      BD72qP
              .           .           .           .
              .           .           .           .
4970          .           .           .           .------->  D72qP2
4968          .           .           .      D72qP1
              .           .           .           V
              .           .           .           V
4973          .           .           .      P72qS1
              .           .           .           .
              .           .           .           .
4978          .           .           .           .           .<-------  D72qP2
4976          .           .           .           .      B72qP2
              .           .           .           .           V
              .           .           .           .           V
4979          .           .           .           .      P72qS2
              .           .           .           .           .
              .           .           .           .           .
4984          .           .           .           .           .           .<-------   D72qS
4982          .           .           .           .           .      BD72qS
              .           .           .           .           .           V
              .           .           .           .           .           V
4985          .           .           .           .           .       R72qS
              .           .           .           .           .           .
              .           .           .           .           .           .
4991          .           .           .       C72qS.......................
              .           .           .           .
              .           .           .           .
4994          .        C72s.......................
              .           .
              .           .
4999          .           .------->   D72sP
4997          .        D72s
              .           .
              .           .
5004          .           .------->   D72sS
5002          .       D72sW
              .           V
              .           V
5007          .       R72sW
              .           .
              .           .
5013          .           .         76s
              .           .           V
              .           .           V
5020          .           .        S76s
              .           .           .
              .           .           .
5028          .           .           .           .<-------   D76qP
5026          .           .           .      BD76qP
              .           .           .           V
              .           .           .           V
5029          .           .           .       P76qS
              .           .           .           .
              .           .           .           .
5034          .           .           .           .           .<-------   D76qS
5032          .           .           .           .      BD76qS
              .           .           .           .           V
              .           .           .           .           V
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5035          .           .           .           .       R76qS
              .           .           .           .           .
              .           .           .           .           .
5041          .           .           .       C76qS............
              .           .           .           .
              .           .           .           .
5044          .        C76s........................
              .           .
              .           .
5049          .           .-------->   D76sP
5047          .        D76s
              .           .
              .           .
5054          .           .-------->   D76sS
5052          .       D76sW
              .           V
              .           V
5057          .       R76sW
              .           .
              .           .
5063       CC80q............
              .
              .
5068          .-------->   D80qP
5066        D80q
              .
              .
5073          .-------->   D80qW
5071       D80qS
              V
              V
5076       R80qS
              .
              .
5084          .           .<--------   D80qP
5082          .      BD80qP
              .           V
              .           V
5085          .       P80qS
              .           .
              .           .
5088       C80qS............
              .
              .
5091          .         52t
              .           V
              .           V
5098          .        S52t
              .           .
              .           .
5106          .           .           .<--------   D52sP
5104          .           .      BD52sP
              .           .           V
              .           .           V
5107          .           .       P52sS
              .           .           .
              .           .           .
5110          .        C52t............
              .           .
              .           .
5115          .           .-------->   D52tP
5113          .        D52t
              .           .
              .           .
5120          .           .-------->   D52tS
5118          .       D52tW
              .           V
              .           V
5123          .       R52tW
              .           .
              .           .
5129          .           .         56t
              .           .           .
              .           .           .
5138          .           .           .           .<--------   D56sP
5136          .           .           .       BD56sP
              .           .           .           V
              .           .           .           V
5139          .           .           .       P56sS
              .           .           .           .
              .           .           .           .
5144          .           .           .           .           .<--------   D56sS
5142          .           .           .           .       BD56sS
              .           .           .           .           V
              .           .           .           .           V
5145          .           .           .           .       R56sS
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                .          .          .          .          .
                .          .          .          .          .
5151            .          .          .      C56sS...........
                .          .          .          .
                .          .          .          .
5154            .       C56t......................
                .          .
                .          .
5159            .          .-------->  D56tP
5157            .       D56t
                .          .
                .          .
5164            .          .-------->  D56tS
5162            .      D56tW
                .          V
                .          V
5167            .      R56tW
                .          .
                .          .
5173            .          .        60t
                .          .          V
                .          .          V
5180            .          .       S60t
                .          .          .
                .          .          .
5188            .          .          .          .<-------   D60sS
5186            .          .      BD60sS
                .          .          V
                .          .          V
5189            .          .       R60sS
                .          .          .
                .          .          .
5195            .       C60t......................
                .          .
                .          .
5200            .          .-------->  D60tS
5198            .      D60tW
                .          V
                .          V
5203            .      R60tW
                .          .
                .          .
5209            .          .        64t
                .          .          .
                .          .          .
5218            .          .          .          .<-------   D64sP
5216            .          .      BD64sP
                .          .          V
                .          .          V
5219            .          .       P64sS
                .          .          .
                .          .          .
5225            .          .          .          .           .<-------   D64sS
5223            .          .          .      BD64sS
                .          .          .          V
                .          .          .          V
5226            .          .          .       R64sS
                .          .          .          .
                .          .          .          .
5232            .          .       C64sS...........
                .          .          .
                .          .          .
5235            .       C64t......................
                .          .
                .          .
5240            .          .-------->  D64tPT
5238            .       D64t
                .          .
                .          .
5245            .          .-------->  D64tP
5243            .      D64t1
                .          .
                .          .
5250            .          .-------->  D64tS
5248            .      D64tW
                .          V
                .          V
5253            .      R64tW
                .          .
                .          .
5259            .          .        68t
                .          .          .
                .          .          .
5268            .          .          .          .<-------   D68sP
5266            .          .      BD68sP
                .          .          V
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                 .           .           .           V
5269             .           .           .       P68sS
                 .           .           .           .
                 .           .           .           .
5274             .           .           .           .           .<-------   D68sS
5272             .           .           .           .      BD68sS
                 .           .           .           .           V
                 .           .           .           .           V
5275             .           .           .           .       R68sS
                 .           .           .           .           .
                 .           .           .           .           .
5281             .           .           .       C68sS............
                 .           .           .           .
                 .           .           .           .
5284             .        C68t........................
                 .           .
                 .           .
5289             .           .-------->   D68tP
5287             .        D68t
                 .           .
                 .           .
5294             .           .-------->   D68tS
5292             .       D68tW
                 .           V
                 .           V
5297             .       R68tW
                 .           .
                 .           .
5303             .           .         72t
                 .           .           .
                 .           .           .
5312             .           .           .           .<-------   D72sS
5310             .           .           .      BD72sS
                 .           .           .           V
                 .           .           .           V
5313             .           .           .       R72sS
                 .           .           .           .
                 .           .           .           .
5321             .           .           .           .           .<-------   D72sP
5319             .           .           .           .      BD72sP
                 .           .           .           .           .
                 .           .           .           .           .
5324             .           .           .           .           .-------->  D72sP2
5322             .           .           .           .      D72sP1
                 .           .           .           .           V
                 .           .           .           .           V
5327             .           .           .           .      P72sS1
                 .           .           .           .           .
                 .           .           .           .           .
5332             .           .           .           .           .           .<-------  D72sP2
5330             .           .           .           .           .      B72sP2
                 .           .           .           .           .           V
                 .           .           .           .           .           V
5333             .           .           .           .           .      P72sS2
                 .           .           .           .           .           .
                 .           .           .           .           .           .
5336             .           .           .       C72sS........................
                 .           .           .           .
                 .           .           .           .
5339             .        C72t........................
                 .           .
                 .           .
5344             .           .-------->   D72tP
5342             .        D72t
                 .           .
                 .           .
5349             .           .-------->   D72tS
5347             .       D72tW
                 .           V
                 .           V
5352             .       R72tW
                 .           .
                 .           .
5358             .           .         76t
                 .           .           .
                 .           .           .
5367             .           .           .           .<-------   D76sP
5365             .           .           .      BD76sP
                 .           .           .           V
                 .           .           .           V
5368             .           .           .       P76sS
                 .           .           .           .
                 .           .           .           .
5373             .           .           .           .           .<-------   D76sS
5371             .           .           .           .      BD76sS
                 .           .           .           .           V
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                .          .          .          .          V
5374            .          .          .          .       R76sS
                .          .          .          .          .
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5380            .          .          .       C76sS...........
                .          .          .          .
                .          .          .          .
5383            .        C76t......................
                .          .
                .          .
5388            .          .-------->   D76tP
5386            .        D76t
                .          .
                .          .
5393            .          .-------->   D76tS
5391            .       D76tW
                .          V
                .          V
5396            .       R76tW
                .          .
                .          .
5402            .          .         80t
                .          .           .
                .          .           .
5409         C80t......................
                .
                .
5414            .-------->   D80tP
5412         D80t
                V
                V
5417        R80tS
                .
                .
5423            .         52u
                .          .
                .          .
5432            .          .           .<-------   D52tS
5430            .          .      BD52tS
                .          .           V
                .          .           V
5433            .          .       R52tS
                .          .           .
                .          .           .
5439            .        C52u...........
                .          V
                .          V
5442            .        S52u
                .          .
                .          .
5451            .          .           .<-------   D52tP
5449            .          .      BD52tP
                .          .           V
                .          .           V
5452            .          .       P52tS
                .          .           .
                .          .           .
5455            .       CC52u...........
                .          .
                .          .
5460            .          .-------->   D52uP
5458            .        D52u
                .          .
                .          .
5465            .          .-------->   D52uS
5463            .       D52uW
                .          V
                .          V
5468            .       R52uW
                .          .
                .          .
5474            .          .         56u
                .          .           .
                .          .           .
5483            .          .           .           .<-------   D56tS
5481            .          .           .      BD56tS
                .          .           .           V
                .          .           .           V
5484            .          .           .       R56tS
                .          .           .           .
                .          .           .           .
5490            .        C56u......................
                .          V
                .          V
5493            .        S56u
                .          .
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5502          .           .           .<-------   D56tP
5500          .           .      BD56tP
              .           .           V
              .           .           V
5503          .           .       P56tS
              .           .           .
              .           .           .
5506          .       CC56u............
              .           .
              .           .
5511          .           .------->   D56uP
5509          .        D56u
              .           .
              .           .
5516          .           .------->   D56uS
5514          .       D56uW
              .           V
              .           V
5519          .       R56uW
              .           .
              .           .
5525          .           .         60u
              .           .           .
              .           .           .
5534          .           .           .           .<-------   D60tS
5532          .           .           .      BD60tS
              .           .           .           V
              .           .           .           V
5535          .           .           .       R60tS
              .           .           .           .
              .           .           .           .
5541          .        C60u........................
              .           V
              .           V
5544          .        S60u
              .           .
              .           .
5552          .           .------->   D60uP
5550          .        D60u
              .           .
              .           .
5557          .           .------->   D60uS
5555          .       D60uW
              .           V
              .           V
5560          .       R60uW
              .           .
              .           .
5566          .           .         64u
              .           .           .
              .           .           .
5575          .           .           .           .<-------   D64tP
5573          .           .           .      BD64tP
              .           .           .           V
              .           .           .           V
5576          .           .           .       P64tS
              .           .           .           .
              .           .           .           .
5582          .           .           .           .           .<-------   D64tS
5580          .           .           .           .      BD64tS
              .           .           .           .           V
              .           .           .           .           V
5583          .           .           .           .       R64tS
              .           .           .           .           .
              .           .           .           .           .
5589          .           .           .       C64tS............
              .           .           .           .
              .           .           .           .
5592          .        C64u........................
              .           .
              .           .
5597          .           .------->  D64uPT
5595          .        D64u
              .           .
              .           .
5602          .           .------->   D64uP
5600          .       D64u1
              .           .
              .           .
5607          .           .------->   D64uS
5605          .       D64uW
              .           V
              .           V
5610          .       R64uW
              .           .
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                .           .
5616            .           .         68u
                .           .           .
                .           .           .
5625            .           .           .           .<-------   D68tP
5623            .           .           .      BD68tP
                .           .           .           V
                .           .           .           V
5626            .           .           .       P68tS
                .           .           .           .
                .           .           .           .
5631            .           .           .           .           .<-------   D68tS
5629            .           .           .           .      BD68tS
                .           .           .           .           V
                .           .           .           .           V
5632            .           .           .           .       R68tS
                .           .           .           .           .
                .           .           .           .           .
5638            .           .           .       C68tS............
                .           .           .           .
                .           .           .           .
5641            .        C68u........................
                .           .
                .           .
5646            .           .------->   D68uP
5644            .        D68u
                .           .
                .           .
5651            .           .------->   D68uS
5649            .       D68uW
                .           V
                .           V
5654            .       R68uW
                .           .
                .           .
5660            .           .         72u
                .           .           .
                .           .           .
5667            .        C72u............
                .           .
                .           .
5672            .           .           .<-------   D72tP
5670            .           .      BD72tP
                .           .           .
                .           .           .
5675            .           .           .------->  D72tP2
5673            .           .      D72tP1
                .           .           V
                .           .           V
5678            .           .      P72tS1
                .           .           .
                .           .           .
5683            .           .           .           .<-------  D72tP2
5681            .           .           .      B72tP2
                .           .           .           V
                .           .           .           V
5684            .           .           .      P72tS2
                .           .           .           .
                .           .           .           .
5689            .           .           .           .           .<-------   D72tS
5687            .           .           .           .       B72tS
                .           .           .           .           V
                .           .           .           .           V
5690            .           .           .           .       R72tS
                .           .           .           .           .
                .           .           .           .           .
5696            .           .       C72tS........................
                .           .           .
                .           .           .
5699            .       CC72u............
                .           .
                .           .
5704            .           .------->   D72uP
5702            .        D72u
                .           .
                .           .
5709            .           .------->   D72uS
5707            .       D72uW
                .           V
                .           V
5712            .       R72uW
                .           .
                .           .
5720            .           .           .<-------   D76tP
5718            .           .      BD76tP
                .           .           .
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                .           .           .
5723            .           .           .-------> D76tP2
5721            .           .      D76tP1
                .           .           V
                .           .           V
5726            .           .      P76tS1
                .           .           .
                .           .           .
5731            .           .           .           .<-------  D76tP2
5729            .           .           .      B76tP2
                .           .           .           V
                .           .           .           V
5732            .           .           .      P76tS2
                .           .           .           .
                .           .           .           .
5737            .           .           .           .           .<-------   D76tS
5735            .           .           .           .      BD76tS
                .           .           .           .           V
                .           .           .           .           V
5738            .           .           .           .       R76tS
                .           .           .           .           .
                .           .           .           .           .
5744            .           .       C76tS.......................
                .           .           .
                .           .           .
5747            .           .           .         76u
                .           .           .           .
                .           .           .           .
5754            .        C76u........................
                .           .
                .           .
5759            .           .------->   D76uP
5757            .        D76u
                .           .
                .           .
5764            .           .------->   D76uS
5762            .       D76uW
                .           V
                .           V
5767            .       R76uW
                .           .
                .           .
5773            .           .         80u
                .           .           .
                .           .           .
5780         C80u........................
                .
                .
5785            .           .<-------   D80tP
5783            .      BD80tP
                .           V
                .           V
5786            .       P80tS
                .           .
                .           .
5791            .           .           .<-------   D80qW
5789            .           .      BD80qW
                .           .           .
                .           .           .
5792         CC80u........................
                V
                V
5795         S-I17
                .
                .
5804            .------->   D80uP
5802         D80u
                V
                V
5807         R80uW
                .
                .
5813            .         84t
                .           .
                .           .
5820            .           .       P84tN
                .           .           .
                .           .           .
5828            .        C84t............
                .           .
                .           .
5833            .           .------->   D84tP
5831            .        D84t
                .           .
                .           .
5838            .           .------->   D84tW
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5836          .       D84tS
              .           V
              .           V
5841          .       R84tS
              .           .
              .           .
5847          .           .         84u
              .           .           .
              .           .           .
5854       C84u.......................
              V
              V
5857       S84u
              .
              .
5865          .           .<-------   D84tP
5863          .      BD84tP
              .           V
              .           V
5866          .       P84tS
              .           .
              .           .
5869      CC84u............
              .
              .
5874          .------->   D84uP
5872       D84u
              .
              .
5879          .------->   D84uS
5877      D84uW
              V
              V
5882      R84uW
              .
              .
5888          .         88t
              .           .
              .           .
5897          .           .           .<-------   D84tW
5895          .           .      BD84tW
              .           .           V
              .           .           V
5898          .           .       R84tW
              .           .           .
              .           .           .
5904          .        C88t............
              .           .
              .           .
5909          .           .------->   D88tW
5907          .       D88tS
              .           V
              .           V
5912          .       R88tS
              .           .
              .           .
5918          .           .         88u
              .           .           .
              .           .           .
5925       C88u.......................
              .
              .
5930          .------->   D88uP
5928       D88u
              .
              .
5935          .------->   D88uS
5933      D88uW
              V
              V
5938      R88uW
              .
              .
5946          .           .<-------   D88uP
5944          .      BD88uP
              .           V
              .           V
5947          .       P88uW
              .           .
              .           .
5950      C88uW............
              .
              .
5953          .         92t
              .           .
              .           .
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5962          .           .           .<-------   D88tW
5960          .           .      BD88tW
              .           .           V
              .           .           V
5963          .           .       R88tW
              .           .           .
              .           .           .
5969          .        C92t............
              .           V
              .           V
5972          .       R92tS
              .           .
              .           .
5978          .           .         92u
              .           .           .
              .           .           .
5985          .           .           .       P92uN
              .           .           .           .
              .           .           .           .
5993       C92u.................................
              .
              .
5998          .------->   D92uP
5996       D92u
              V
              V
6001      R92uS
              .
              .
6009          .           .<-------   D92uP
6007          .       B92uP
              .           V
              .           V
6010          .       P92uS
              .           .
              .           .
6013      C92uS............
              .
              .
6016          .         76v
              .           .
              .           .
6025          .           .           .<-------   D76uP
6023          .           .       B76uP
              .           .           .
              .           .           .
6028          .           .           .------->  D76uP1
6026          .           .      D76uP2
              .           .           V
              .           .           V
6031          .           .      P76uS2
              .           .           .
              .           .           .
6036          .           .           .           .<-------   D76uS
6034          .           .           .      BD76uS
              .           .           .           V
              .           .           .           V
6037          .           .           .       R76uS
              .           .           .           .
              .           .           .           .
6043          .           .       C76uS............
              .           .           .
              .           .           .
6046          .        C76v............
              .           .
              .           .
6051          .           .------->   D76vP
6049          .        D76v
              .           .
              .           .
6056          .           .------->   D76vS
6054          .       D76vW
              .           V
              .           V
6059          .       R76vW
              .           .
              .           .
6065          .           .         80v
              .           .           .
              .           .           .
6074          .           .           .           .<-------  D76uP1
6072          .           .           .      B76uP1
              .           .           .           V
              .           .           .           V
6075          .           .           .      P76uS1
              .           .           .           .
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                .          .          .
6078            .       C80v.......................
                .          .
                .          .
6083            .          .-------->  D80vP
6081            .       D80v
                .          .
                .          .
6088            .          .-------->  D80vS
6086            .      D80vW
                .          V
                .          V
6091            .      R80vW
                .          .
                .          .
6097            .          .         84v
                .          .          .
                .          .          .
6106            .          .          .          .<-------   D80uP
6104            .          .          .     BD80uP
                .          .          .          V
                .          .          .          V
6107            .          .          .      P80uS
                .          .          .          .
                .          .          .          .
6110            .       C84v.......................
                .          .
                .          .
6115            .          .          .<-------   D84uP
6113            .          .     BD84uP
                .          .          V
                .          .          V
6116            .          .      P84uS
                .          .          .
                .          .          .
6121            .          .          .          .<-------   D84uS
6119            .          .          .     BD84uS
                .          .          .          V
                .          .          .          V
6122            .          .          .      R84uS
                .          .          .          .
                .          .          .          .
6128            .          .      C84uS............
                .          .          .
                .          .          .
6131            .      CC84v............
                .          .
                .          .
6137            .          .-------->  D84vP
6134            .       D84v
                .          .
                .          .
6142            .          .-------->  D84vS
6140            .      D84vW
                .          V
                .          V
6145            .      R84vW
                .          .
                .          .
6151            .          .         88v
                .          .          .
                .          .          .
6160            .          .          .          .<-------   D88uS
6158            .          .          .     BD88uS
                .          .          .          V
                .          .          .          V
6161            .          .          .      R88uS
                .          .          .          .
                .          .          .          .
6167            .       C88v.......................
                .          .
                .          .
6172            .          .-------->  D88vP
6170            .       D88v
                .          V
                .          V
6175            .      R88vW
                .          .
                .          .
6181            .          .         92v
                .          .          .
                .          .          .
6188         C92v.......................
                .
                .
6193            .-------->    D92v
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6191      D92vP
              V
              V
6196      P92vS
              .
              .
6199          .         88w
              .           .
              .           .
6208          .           .           .<-------   D88vP
6206          .           .      BD88vP
              .           .           V
              .           .           V
6209          .           .       P88vS
              .           .           .
              .           .           .
6212       C88w.......................
              .
              .
6215          .         44v
              .           .
              .           .
6224          .           .           .<-------   D44sP
6222          .           .      BD44sP
              .           .           V
              .           .           V
6225          .           .       P44sS
              .           .           .
              .           .           .
6228          .        C44v............
              .           .
              .           .
6233          .           .           .<-------  D48oPT
6231          .           .      B48oPT
              .           .           V
              .           .           V
6234          .           .       PT48o
              .           .           .
              .           .           .
6239          .           .           .           .<-------  D48qPT
6237          .           .           .      B48qPT
              .           .           .           .
              .           .           .           .
6240          .           .      CPT48q............
              .           .           V
              .           .           V
6243          .           .       PT48q
              .           .           .
              .           .           .
6248          .           .           .           .<-------  D48sPT
6246          .           .           .      B48sPT
              .           .           .           .
              .           .           .           .
6249          .           .      CPT48s............
              .           .           V
              .           .           V
6252          .           .       PT48s
              .           .           .
              .           .           .
6255          .           .           .         48v
              .           .           .           .
              .           .           .           .
6262          .           .        C48v............
              .           .           .
              .           .           .
6265          .      NUL48v............
              .           .
              .           .
6268          .           .         52v
              .           .           .
              .           .           .
6277          .           .           .           .<-------   D52uP
6275          .           .           .      BD52uP
              .           .           .           V
              .           .           .           V
6278          .           .           .       P52uS
              .           .           .           .
              .           .           .           .
6283          .           .           .           .           .<-------   D52uS
6281          .           .           .           .      BD52uS
              .           .           .           .           V
              .           .           .           .           V
6284          .           .           .           .       R52uS
              .           .           .           .           .
              .           .           .           .           .
6290          .           .           .       C52uS............
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                .         .         .         .
                .         .         .         .
6293            .         .      C52v...........
                .         .         .
                .         .         .
6296            .    NUL52v...........
                .         .
                .         .
6299            .         .      56v
                .         .         .
                .         .         .
6308            .         .         .         .<-------   D56uP
6306            .         .         .    BD56uP
                .         .         .         V
                .         .         .         V
6309            .         .         .     P56uS
                .         .         .         .
                .         .         .         .
6314            .         .         .         .         .<-------   D56uS
6312            .         .         .         .    BD56uS
                .         .         .         .         V
                .         .         .         .         V
6315            .         .         .         .     R56uS
                .         .         .         .         .
                .         .         .         .         .
6321            .         .         .     C56uS...........
                .         .         .         .
                .         .         .         .
6324            .         .      C56v...........
                .         .         .
                .         .         .
6327            .    NUL56v...........
                .         .
                .         .
6330            .         .      60v
                .         .         .
                .         .         .
6339            .         .         .         .<-------   D60uP
6337            .         .         .    BD60uP
                .         .         .         V
                .         .         .         V
6340            .         .         .     P60uS
                .         .         .         .
                .         .         .         .
6345            .         .         .         .         .<-------   D60uS
6343            .         .         .         .    BD60uS
                .         .         .         .         V
                .         .         .         .         V
6346            .         .         .         .     R60uS
                .         .         .         .         .
                .         .         .         .         .
6352            .         .         .     C60uS...........
                .         .         .         .
                .         .         .         .
6355            .         .      C60v...........
                .         .         .
                .         .         .
6358            .    NUL60v...........
                .         .
                .         .
6363            .         .         .<-------  DPT64o
6361            .         .    BPT64o
                .         .         .
                .         .         .
6366            .         .         .         .<-------  D64qPT
6364            .         .         .    B64qPT
                .         .         .         .
                .         .         .         .
6367            .         .    CPT64q...........
                .         .         V
                .         .         V
6370            .         .     PT64q
                .         .         .
                .         .         .
6375            .         .         .         .<-------  D64sPT
6373            .         .         .    B64sPT
                .         .         .         .
                .         .         .         .
6376            .         .    CPT64s...........
                .         .         V
                .         .         V
6379            .         .     PT64s
                .         .         .
                .         .         .
6384            .         .         .         .<-------  D64tPT
6382            .         .         .    B64tPT
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                 .          .          .          .
                 .          .          .          .
6385             .          .     CPT64t...........
                 .          .          V
                 .          .          V
6388             .          .      PT64t
                 .          .          .
                 .          .          .
6393             .          .          .          .<-------  D64uPT
6391             .          .          .     B64uPT
                 .          .          .          .
                 .          .          .          .
6394             .          .     CPT64u...........
                 .          .          V
                 .          .          V
6397             .          .     PT64u
                 .          .          .
                 .          .          .
6400             .          .          .        64v
                 .          .          .          .
                 .          .          .          .
6409             .          .          .          .          .<-------   D64uP
6407             .          .          .          .     BD64uP
                 .          .          .          .          V
                 .          .          .          .          V
6410             .          .          .          .      P64uS
                 .          .          .          .          .
                 .          .          .          .          .
6415             .          .          .          .          .          .<-------   D64uS
6413             .          .          .          .          .     BD64uS
                 .          .          .          .          .          V
                 .          .          .          .          .          V
6416             .          .          .          .          .      R64uS
                 .          .          .          .          .          .
                 .          .          .          .          .          .
6422             .          .          .          .      C64uS...........
                 .          .          .          .          .
                 .          .          .          .          .
6425             .          .       C64v......................
                 .          .          .
                 .          .          .
6428             .     NUL64v...........
                 .          .
                 .          .
6431             .          .        68v
                 .          .          .
                 .          .          .
6440             .          .          .          .<-------   D68uP
6438             .          .          .     BD68uP
                 .          .          .          V
                 .          .          .          V
6441             .          .          .      P68uS
                 .          .          .          .
                 .          .          .          .
6446             .          .          .          .          .<-------   D68uS
6444             .          .          .          .     BD68uS
                 .          .          .          .          V
                 .          .          .          .          V
6447             .          .          .          .      R68uS
                 .          .          .          .          .
                 .          .          .          .          .
6453             .          .          .      C68uS...........
                 .          .          .          .
                 .          .          .          .
6456             .          .       C68v...........
                 .          .          .
                 .          .          .
6459             .     NUL68v...........
                 .          .
                 .          .
6462             .          .        72v
                 .          .          .
                 .          .          .
6471             .          .          .          .<-------   D72uP
6469             .          .          .     BD72uP
                 .          .          .          .
                 .          .          .          .
6474             .          .          .          .-------> D72uP2
6472             .          .          .     D72uP1
                 .          .          .          V
                 .          .          .          V
6477             .          .          .     P72uS1
                 .          .          .          .
                 .          .          .          .
6482             .          .          .          .          .<-------  D72uP2
6480             .          .          .          .     B72uP2
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                 .         .         .         .         V
                 .         .         .         .         V
6483             .         .         .         .      P72uS2
                 .         .         .         .         .
                 .         .         .         .         .
6488             .         .         .         .         .          .<-------   D72uS
6486             .         .         .         .         .      BD72uS
                 .         .         .         .         .           V
                 .         .         .         .         .           V
6489             .         .         .         .         .       R72uS
                 .         .         .         .         .           .
                 .         .         .         .         .           .
6495             .         .         .      C72uS.......................
                 .         .         .         .
                 .         .         .         .
6498             .         .      C72v...........
                 .         .         .
                 .         .         .
6501             .     NUL72v...........
                 .         .
                 .         .
6504             .         .      76w
                 .         .         .
                 .         .         .
6513             .         .         .         .<-------   D76vS
6511             .         .         .      BD76vS
                 .         .         .         V
                 .         .         .         V
6514             .         .         .      R76vS
                 .         .         .         .
                 .         .         .         .
6522             .         .         .         .         .<-------   D76vP
6520             .         .         .         .      BD76vP
                 .         .         .         .         V
                 .         .         .         .         V
6523             .         .         .         .       P76vS
                 .         .         .         .         .
                 .         .         .         .         .
6526             .         .         .      C76vS...........
                 .         .         .         .
                 .         .         .         .
6529             .         .      C76w...........
                 .         .         .
                 .         .         .
6532             .     NUL76w...........
                 .         .
                 .         .
6535             .         .       80w
                 .         .         .
                 .         .         .
6544             .         .         .         .<-------   D80vS
6542             .         .         .      BD80vS
                 .         .         .         V
                 .         .         .         V
6545             .         .         .      R80vS
                 .         .         .         .
                 .         .         .         .
6551             .         .      C80w...........
                 .         .         .
                 .         .         .
6554             .     NUL80w...........
                 .         .
                 .         .
6559             .         .         .<-------   D84vS
6557             .         .      BD84vS
                 .         .         V
                 .         .         V
6560             .         .      R84vS
                 .         .         .
                 .         .         .
6568             .         .         .         .<-------   D84vP
6566             .         .         .      BD84vP
                 .         .         .         .
                 .         .         .         .
6571             .         .         .         .-------> D84vP2
6569             .         .         .      D84vP1
                 .         .         .         V
                 .         .         .         V
6574             .         .         .      P84vS1
                 .         .         .         .
                 .         .         .         .
6579             .         .         .         .         .<-------  D84vP2
6577             .         .         .         .      B84vP2
                 .         .         .         .         V
                 .         .         .         .         V
6580             .         .         .         .      P84vS2
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                .          .          .          .          .
                .          .          .          .          .
6583            .          .     C84vS.......................
                .          .          .
                .          .          .
6586            .          .          .        84w
                .          .          .          .
                .          .          .          .
6595            .          .          .          .          .<-------   D80vP
6593            .          .          .          .     BD80vP
                .          .          .          .          V
                .          .          .          .          V
6596            .          .          .          .      P80vS
                .          .          .          .          .
                .          .          .          .          .
6599            .          .     C84w........................
                .          .          .
                .          .          .
6602            .     NUL84w............
                .          .
                .          .
6605      NUL88w............
                .
                .
6608            .       24s
                .         V
                .         V
6615            .      S24s
                .          .
                .          .
6623            .          .          .<-------  D28qP2
6621            .          .     B28qP2
                .          .          V
                .          .          V
6624            .          .     P28qE
                .          .          .
                .          .          .
6627            .      C24s............
                .          .
                .          .
6632            .          .-------->  D24sP
6630            .      D24s
                .         V
                .         V
6635            .     R24sS
                .          .
                .          .
6643            .          .          .<-------   D24sP
6641            .          .     BD24sP
                .          .          .
                .          .          .
6646            .          .          .-------> D24sPE
6644            .          .     D24sPS
                .          .          V
                .          .          V
6649            .          .     P24sS
                .          .          .
                .          .          .
6652            .     C24sS............
                .          .
                .          .
6655            .          .       24t
                .          .          .
                .          .          .
6662            .      C24t............
                .         V
                .         V
6665            .     S24t
                .          .
                .          .
6671            .          .       04s
                .          .         V
                .          .         V
6678            .          .      S04s
                .          .         V
                .          .         V
6685            .          .     R04sS
                .          .          .
                .          .          .
6691            .          .          .        08q
                .          .          .         V
                .          .          .         V
6698            .          .          .      R08qS
                .          .          .          .
                .          .          .          .
6704            .          .          .          .        08s
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                 .           .           .           .           .
                 .           .           .           .           .
6711             .           .       C08s.......................
                 .           .          V
                 .           .          V
6714             .           .       S08s
                 .           .           .
                 .           .           .
6723             .           .           .-------->   D08sP
6721             .           .       D08s
                 .           .          V
                 .           .          V
6726             .           .       R08sW
                 .           .           .
                 .           .           .
6732             .           .           .         12q
                 .           .           .          V
                 .           .           .          V
6739             .           .           .       R12qS
                 .           .           .           .
                 .           .           .           .
6745             .           .           .           .         12s
                 .           .           .           .          V
                 .           .           .           .          V
6752             .           .           .           .       S12s
                 .           .           .           .           .
                 .           .           .           .           .
6759             .           .           .        C12s............
                 .           .           .           V
                 .           .           .           V
6762             .           .           .       R12sW
                 .           .           .           .
                 .           .           .           .
6768             .           .       C12sW............
                 .           .           .
                 .           .           .
6773             .           .           .-------->  D16sP2
6771             .           .       D16s2
                 .           .           .
                 .           .           .
6776             .           .           .         16o
                 .           .           .          V
                 .           .           .          V
6783             .           .           .       R16oS
                 .           .           .           .
                 .           .           .           .
6789             .           .           .           .         16q
                 .           .           .           .           .
                 .           .           .           .           .
6796             .           .           .        C16q............
                 .           .           .           V
                 .           .           .           V
6799             .           .           .       S16q
                 .           .           .           .
                 .           .           .           .
6807             .           .           .           .-------->   D16qP
6805             .           .           .        D16q
                 .           .           .           V
                 .           .           .           V
6810             .           .           .       R16qS
                 .           .           .           .
                 .           .           .           .
6816             .           .           .           .         16s
                 .           .           .           .           .
                 .           .           .           .           .
6823             .           .       C16s.......................
                 .           .          V
                 .           .          V
6826             .           .       S16s
                 .           .           .
                 .           .           .
6834             .           .           .           .<--------   D16qP
6832             .           .           .      BD16qP
                 .           .           .           .
                 .           .           .           .
6838             .           .           .           .-------->  D16qPW
6835             .           .           .      D16qPS
                 .           .           .           V
                 .           .           .           V
6841             .           .           .       P16qS
                 .           .           .           .
                 .           .           .           .
6844             .           .       CC16s............
                 .           .           .
                 .           .           .
6849             .           .           .-------->   D16sP
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6847          .           .        D16s
              .           .          V
              .           .          V
6852          .           .       R16sS
              .           .          .
              .           .          .
6860          .           .          .          .<-------   D16sP
6858          .           .          .      BD16sP
              .           .          .          V
              .           .          .          V
6861          .           .          .       P16sS
              .           .          .          .
              .           .          .          .
6864          .           .       C16sS............
              .           .          .
              .           .          .
6867          .           .          .         20p
              .           .          .          V
              .           .          .          V
6874          .           .          .       S20p1
              .           .          .          .
              .           .          .          .
6882          .           .          .          .           .<-------  D16qPW
6880          .           .          .          .      B16qPW
              .           .          .          .          V
              .           .          .          .          V
6883          .           .          .          .       P16qW
              .           .          .          .           .
              .           .          .          .           .
6886          .           .          .       C20p............
              .           .          .          V
              .           .          .          V
6889          .           .          .       S20p2
              .           .          .          .
              .           .          .          .
6896          .           .          .          .      OCCC48
              .           .          .          .           .
              .           .          .          .           .
6906          .           .          .          .           .           .<-------   D24oP
6904          .           .          .          .           .      BD24oP
              .           .          .          .           .           V
              .           .          .          .           .           V
6907          .           .          .          .           .       P24oS
              .           .          .          .           .           .
              .           .          .          .           .           .
6910          .           .          .          .       C24oS............
              .           .          .          .           V
              .           .          .          .           V
6913          .           .          .          .       ROCCC
              .           .          .          .           .
              .           .          .          .           .
6919          .           .          .       CC20p............
              .           .          .          V
              .           .          .          V
6922          .           .          .       R20pS
              .           .          .          .
              .           .          .          .
6928          .           .          .          .         20q
              .           .          .          .           .
              .           .          .          .           .
6937          .           .          .          .           .           .<-------  D28pP2
6935          .           .          .          .           .      B28pP2
              .           .          .          .           .           V
              .           .          .          .           .           V
6938          .           .          .          .           .       P28pE
              .           .          .          .           .           .
              .           .          .          .           .           .
6941          .           .          .       C20q........................
              .           .          .          V
              .           .          .          V
6944          .           .          .       R20qS
              .           .          .          .
              .           .          .          .
6950          .           .          .          .         20s
              .           .          .          .           V
              .           .          .          .           V
6957          .           .          .          .        S20s
              .           .          .          .           .
              .           .          .          .           .
6963          .           .          .       C20s............
              .           .          .          .
              .           .          .          .
6968          .           .          .          .           .<-------  D24sPE
6966          .           .          .          .      B24sPE
              .           .          .          .           V
              .           .          .          .           V
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6969          .           .           .           .       P24sE
              .           .           .           .           .
              .           .           .           .           .
6972          .           .           .       CC20s...........
              .           .           .           V
              .           .           .           V
6975          .           .           .       R20sS
              .           .           .           .
              .           .           .           .
6981          .           .           .           .         20t
              .           .           .           .           V
              .           .           .           .           V
6988          .           .           .           .       S20t
              .           .           .           .           .
              .           .           .           .           .
6994          .           .       C20t......................
              .           .           .
              .           .           .
6997          .      NUL20t...........
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              JUN   1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   11JUL06  TIME  09:16:42   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
```

```
Project ID: METRO ADMS/P - Major Basin: 01 - Return Period: 100 Years
METRO PHOENIX ADMS/P - FCD2004C040: Wood/Patel in association with EEC
100-Year 24-Hour Storm
SCS Type II Precipitation Distribution
Green and Ampt Loss Method
Clark Unit Hydrograph
Future Land Use Conditions
Model Name: FC24BASE.DAT, June 2006

*******************************************************************************
Important Notes:
1)  Peak flow for each subbasin may not concentrate on one single point,
    for illustration purposes, it is assumed that the concentration point
    is located on the hydrologic low point of the subbasin;
2)  Surface flow diversions may occur at several locations along one of the
    subbasin downstream boundaries.  For simplicity, one split flow is
    modeled for each subbasin to one direction;
3)  A fixed flow split ratio for most of the subbasin is used for all
    frequencies except some of the subbasins along Grand Canal.
4)  Some subbasins have multiple pipes to one direction, a composite storm
    drain pipe may have been used to model these conditions;
5)  Some subbasins have multiple detention/retention basins, an equivalent
    detention/retention basin may have been used to model these conditions;
6)  Surface flow routing may occur at multiple streets and as sheet flow,
    a composite channel cross section is used to represent the streets
    flow conveyance.

*******************************************************************************
HEC-1 ELEMENT NOMENCLATURE

SUB-BASIN HYDROGRAPH:
   Example: "80c" is the hydrograph from subbasin 80c

SUB-BASIN FLOW DIVERSION:
   Example: "D80cS" is the south component of diversion in Subbasin 80c

PIPE FLOW DIVERSION:
   Example: "80cP" is the pipe flow from Subbasin 80c

PIPE FLOW ROUTING:
   Example: "P80cS" is the south component of pipe routing from Subbasin 80c

CHANNEL ROUTE:
   Example: "R80cS" is the south component of surface flow routing from 80c

STORAGE ROUTE:
   Example: "S80c" is the storage routing in Subbasin 80c

HYDROGRAPH COMBINE:
   Example: "C80c" is the combined flow in Subbasin 80c

HYDROGRAPH RETRIEVAL:
   Example: "B80c" is the retrieved flow from Subbasin 80c

"DUMMY" COMBINE:
   Example: "NUL80C" is the dummy hydrograph combining to free up a HEC-1
            computational path.
*******************************************************************************


62 IO          OUTPUT CONTROL VARIABLES
                     IPRNT           5  PRINT CONTROL
                     IPLOT           0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

   IT          HYDROGRAPH TIME DATA
                      NMIN           5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME        0000  STARTING TIME
                        NQ        2000  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      7    0  ENDING DATE
                    NDTIME        2235  ENDING TIME
```

ICENT 19 CENTURY MARK

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 166.58 HOURS

ENGLISH UNITS

DRAINAGE AREA	SQUARE MILES
PRECIPITATION DEPTH	INCHES
LENGTH, ELEVATION	FEET
FLOW	CUBIC FEET PER SECOND
STORAGE VOLUME	ACRE-FEET
SURFACE AREA	ACRES
TEMPERATURE	DEGREES FAHRENHEIT

63 JD INDEX STORM NO. 1
STRM 3.90 PRECIPITATION DEPTH
TRDA .01 TRANSPOSITION DRAINAGE AREA

64 PI PRECIPITATION PATTERN

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.01	.01	.01	.01	.01	.01	.01	.01	.03	.03
.03	.09	.09	.09	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.00	.00	.00	.00
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74 JD INDEX STORM NO. 2
STRM 3.67 PRECIPITATION DEPTH
TRDA 10.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

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.01	.01	.01	.01	.01	.01	.01	.01	.03	.03
.03	.09	.09	.09	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.00	.00	.00	.00
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75 JD INDEX STORM NO. 3
STRM 3.51 PRECIPITATION DEPTH

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                TRDA       30.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
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76 JD        INDEX STORM NO. 4
                STRM        3.35  PRECIPITATION DEPTH
                TRDA       60.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
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77 JD        INDEX STORM NO. 5
                STRM        3.30  PRECIPITATION DEPTH
                TRDA       90.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
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.03	.09	.09	.09	.01	.01	.01	.01	.01	.01
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RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
+	HYDROGRAPH AT	64c	158.	12.33	32.	10.	3.	.26		
+	DIVERSION TO	D64cS	107.	12.33	22.	7.	2.	.26		
+	HYDROGRAPH AT	D64cW	51.	12.33	10.	3.	1.	.26		
+	ROUTED TO	R64cW	48.	12.67	10.	3.	1.	.26		
+	HYDROGRAPH AT	68c	181.	12.33	36.	11.	4.	.43		
+	2 COMBINED AT	C68c	203.	12.50	46.	14.	5.	.70		
+	DIVERSION TO	D68cP	41.	12.00	22.	8.	3.	.70		
+	HYDROGRAPH AT	D68c	162.	12.50	24.	6.	2.	.70		
+	DIVERSION TO	D68cS	74.	12.50	11.	3.	1.	.70		
+	HYDROGRAPH AT	D68cW	88.	12.50	13.	3.	1.	.70		
+	ROUTED TO	R68cW	78.	12.83	13.	3.	1.	.70		
	HYDROGRAPH AT	72c	97.	12.58	30.	10.	3.	.54		
+	2 COMBINED AT	C72c	164.	12.83	42.	13.	4.	1.24		
+	DIVERSION TO	D72cP	90.	12.42	34.	11.	4.	1.24		
+	HYDROGRAPH AT	D72c	74.	12.83	8.	2.	1.	1.24		
+	DIVERSION TO	D72cS	66.	12.83	7.	2.	1.	1.24		
+	HYDROGRAPH AT	D72cW	7.	12.83	1.	0.	0.	1.24		
+	ROUTED TO	R72cW	4.	13.92	1.	0.	0.	1.24		
+	HYDROGRAPH AT	76C	515.	12.33	92.	26.	9.	.60		
+	2 COMBINED AT	C76c	507.	12.33	91.	26.	9.	1.84		
+	DIVERSION TO	D76c	468.	12.33	67.	17.	6.	1.84		
+	HYDROGRAPH AT	D76cP	39.	11.75	24.	9.	3.	1.84		
+	HYDROGRAPH AT	84c	297.	12.50	89.	28.	9.	.47		
+	DIVERSION TO	D84cS	228.	12.50	69.	22.	7.	.47		
	HYDROGRAPH AT	D84cE	69.	12.50	21.	6.	2.	.47		
+	ROUTED TO	R84cE	65.	12.83	21.	6.	2.	.47		

+	HYDROGRAPH AT 80c	453.	12.33	102.	32.	11.	.66
+	ROUTED TO S80c	437.	12.50	102.	30.	10.	.66
+	2 COMBINED AT C80c	475.	12.50	122.	36.	12.	1.13
+	DIVERSION TO D80c	456.	12.50	103.	26.	9.	1.13
+	HYDROGRAPH AT D80cP	19.	10.42	19.	10.	3.	1.13
+	2 COMBINED AT C76cP	58.	11.75	43.	19.	6.	2.97
+	ROUTED TO P76cS	58.	11.92	43.	19.	6.	2.97
+	DIVERSION TO D80eP1	19.	11.92	14.	6.	2.	2.97
+	HYDROGRAPH AT D76eP1	39.	11.92	29.	13.	4.	2.97
+	HYDROGRAPH AT 56e	82.	12.25	14.	4.	1.	.18
+	DIVERSION TO D56eS	44.	12.25	8.	2.	1.	.18
+	HYDROGRAPH AT D56eW	39.	12.25	7.	2.	1.	.18
+	ROUTED TO R56eW	34.	12.67	7.	2.	1.	.18
+	HYDROGRAPH AT 60e	185.	12.42	44.	13.	4.	.41
+	2 COMBINED AT C60e	208.	12.50	50.	15.	5.	.58
+	DIVERSION TO D60eP	75.	12.08	33.	11.	4.	.58
+	HYDROGRAPH AT D60e	133.	12.50	17.	4.	1.	.58
+	DIVERSION TO D60eS	45.	12.50	6.	1.	0.	.58
+	HYDROGRAPH AT D60eW	88.	12.50	11.	3.	1.	.58
+	ROUTED TO R60eW	80.	12.83	11.	3.	1.	.58
+	HYDROGRAPH AT 64e	167.	12.42	41.	13.	4.	.50
+	HYDROGRAPH AT B64cS	107.	12.33	22.	7.	2.	.26
+	ROUTED TO R64cS	95.	12.83	22.	7.	2.	.26
+	3 COMBINED AT C64e	302.	12.75	72.	21.	7.	1.35
+	DIVERSION TO D64eS	151.	12.75	36.	11.	4.	1.35
+	HYDROGRAPH AT D64eW	151.	12.75	36.	11.	4.	1.35
+	ROUTED TO R64eW	145.	13.00	36.	11.	4.	1.35
+	HYDROGRAPH AT 68e	159.	12.42	40.	12.	4.	.50
	HYDROGRAPH AT						

+	B68cP	41.	12.00	22.	8.	3.	.70
ROUTED TO	P68cS	41.	12.17	22.	8.	3.	.70
HYDROGRAPH AT +	B68cS	74.	12.50	11.	3.	1.	.70
ROUTED TO +	R68cS	67.	12.92	11.	3.	1.	.70
2 COMBINED AT +	C68cS	108.	12.92	33.	11.	4.	.70
3 COMBINED AT +	C68e	363.	12.92	107.	33.	11.	2.28
DIVERSION TO +	D68eP	63.	12.00	44.	17.	6.	2.28
HYDROGRAPH AT +	D68e	300.	12.92	63.	16.	5.	2.28
DIVERSION TO +	D68eS	162.	12.92	34.	8.	3.	2.28
HYDROGRAPH AT +	D68eW	138.	12.92	29.	7.	2.	2.28
ROUTED TO +	R68eW	130.	13.17	29.	7.	2.	2.28
HYDROGRAPH AT +	72e	168.	12.42	45.	14.	5.	.50
HYDROGRAPH AT +	B72cP	90.	12.42	34.	11.	4.	1.24
ROUTED TO +	P72cS	90.	12.50	34.	11.	4.	1.24
HYDROGRAPH AT	B72cS	66.	12.83	7.	2.	1.	1.24
ROUTED TO +	R72cS	50.	13.33	7.	2.	1.	1.24
2 COMBINED AT +	C72cS	140.	13.33	41.	12.	4.	1.24
3 COMBINED AT +	C72e	348.	13.17	111.	33.	11.	3.32
DIVERSION TO +	D72eP	195.	12.33	86.	26.	9.	3.32
HYDROGRAPH AT +	D72e	153.	13.17	25.	6.	2.	3.32
DIVERSION TO +	D72eS	138.	13.17	23.	6.	2.	3.32
HYDROGRAPH AT +	D72eW	15.	13.17	3.	1.	0.	3.32
ROUTED TO +	R72eW	11.	14.17	3.	1.	0.	3.32
HYDROGRAPH AT +	76e	277.	12.42	62.	19.	6.	.50
HYDROGRAPH AT +	B76c	468.	12.33	67.	17.	6.	1.84
ROUTED TO +	R76cS	425.	12.67	67.	17.	6.	1.84
4 COMBINED AT +	C76e	696.	12.58	158.	48.	16.	4.42
DIVERSION TO	D76e	675.	12.58	137.	34.	11.	4.42
HYDROGRAPH AT +	D76eP	21.	9.33	21.	14.	5.	4.42

+	HYDROGRAPH AT	BD84cS	228.	12.50	69.	22.	7.	.47
+	ROUTED TO	R84cS	218.	12.83	69.	22.	7.	.47
+	HYDROGRAPH AT	84e	105.	12.50	32.	9.	3.	.21
+	2 COMBINED AT	C84e	312.	12.75	100.	31.	10.	.68
+	DIVERSION TO	D84eS	123.	12.75	39.	12.	4.	.68
+	HYDROGRAPH AT	D84eE	189.	12.75	61.	19.	6.	.68
+	ROUTED TO	R84eE	178.	13.25	60.	19.	6.	.68
+	HYDROGRAPH AT	80e	353.	12.33	74.	22.	7.	.49
+	HYDROGRAPH AT	B80eP1	19.	11.92	14.	6.	2.	2.97
+	HYDROGRAPH AT	BD80c	456.	12.50	103.	26.	9.	1.13
+	ROUTED TO	R80cS	428.	12.83	103.	26.	9.	1.13
+	4 COMBINED AT	C80e	786.	12.83	246.	71.	24.	1.84
+	DIVERSION TO	D80e	731.	12.83	195.	49.	16.	1.84
+	HYDROGRAPH AT	D80eP	55.	11.83	51.	23.	8.	1.84
+	2 COMBINED AT	C76eP	76.	11.83	72.	36.	12.	6.26
+	ROUTED TO	P76eS	76.	11.92	72.	36.	12.	6.26
+	DIVERSION TO	D80gP1	55.	11.92	53.	27.	9.	6.26
+	HYDROGRAPH AT	D76gP1	21.	11.92	19.	10.	3.	6.26
+	HYDROGRAPH AT	76g	327.	12.33	71.	22.	7.	.50
+	HYDROGRAPH AT	BD76e	675.	12.58	137.	34.	11.	4.42
+	ROUTED TO	R76eS	643.	12.92	136.	34.	11.	4.42
+	3 COMBINED AT	C76g	869.	12.83	224.	65.	22.	4.92
+	DIVERSION TO	D76gP2	48.	11.58	45.	21.	7.	4.92
+	HYDROGRAPH AT	D76g1	821.	12.83	178.	45.	15.	4.92
+	DIVERSION TO	D76gP	57.	12.00	33.	8.	3.	4.92
+	HYDROGRAPH AT	D76g	764.	12.83	146.	36.	12.	4.92
+	DIVERSION TO	D76gS	535.	12.83	102.	26.	9.	4.92
+	HYDROGRAPH AT	D76gE	229.	12.83	44.	11.	4.	4.92
+	ROUTED TO	R76gE	224.	13.00	44.	11.	4.	4.92

+	HYDROGRAPH AT	B76gP2	48.	11.58	45.	21.	7.	4.92
	2 COMBINED AT	C76gE	272.	13.00	89.	32.	11.	4.92
+	HYDROGRAPH AT	54g	202.	12.25	34.	10.	3.	.25
+	DIVERSION TO	D54gS	81.	12.25	14.	4.	1.	.25
+	HYDROGRAPH AT	D54gW	121.	12.25	20.	6.	2.	.25
+	ROUTED TO	R54gW	104.	12.58	20.	6.	2.	.25
+	HYDROGRAPH AT	56g	189.	12.33	46.	15.	5.	.50
+	HYDROGRAPH AT	B56eS	44.	12.25	8.	2.	1.	.18
+	ROUTED TO	R56eS	35.	12.75	8.	2.	1.	.18
+	3 COMBINED AT	C56g	298.	12.58	72.	23.	8.	.92
+	DIVERSION TO	D56gP	130.	12.17	53.	18.	6.	.92
+	HYDROGRAPH AT	D56g	168.	12.58	19.	5.	2.	.92
+	DIVERSION TO	D56gS	94.	12.58	11.	3.	1.	.92
+	HYDROGRAPH AT	D56gW	74.	12.58	8.	2.	1.	.92
	ROUTED TO	R56gW	66.	12.92	8.	2.	1.	.92
+	HYDROGRAPH AT	60g	225.	12.42	55.	17.	6.	.50
+	HYDROGRAPH AT	B60eP	75.	12.08	33.	11.	4.	.58
+	ROUTED TO	P60eS	75.	12.17	33.	11.	4.	.58
+	HYDROGRAPH AT	B60eS	45.	12.50	6.	1.	0.	.58
+	ROUTED TO	R60eS	38.	13.00	6.	1.	0.	.58
+	2 COMBINED AT	C60eS	113.	13.00	39.	13.	4.	.58
+	3 COMBINED AT	C60g	328.	12.83	99.	31.	10.	1.83
+	DIVERSION TO	D60gP	124.	12.08	63.	22.	7.	1.83
+	HYDROGRAPH AT	D60g	204.	12.83	36.	9.	3.	1.83
+	DIVERSION TO	D60gS	96.	12.83	17.	4.	1.	1.83
+	HYDROGRAPH AT	D60gW	108.	12.83	19.	5.	2.	1.83
+	ROUTED TO	R60gW	99.	13.08	19.	5.	2.	1.83
+	HYDROGRAPH AT	64g	160.	12.42	42.	14.	5.	.50
	HYDROGRAPH AT							

+		B64eS	151.	12.75	36.	11.	4.	1.35
	ROUTED TO							
+		R64eS	141.	13.17	36.	11.	4.	1.35
	3 COMBINED AT							
+		C64g	326.	13.08	95.	28.	9.	3.10
	DIVERSION TO							
+		D64gP	153.	12.33	69.	22.	7.	3.10
	HYDROGRAPH AT							
+		D64g	173.	13.08	26.	6.	2.	3.10
	DIVERSION TO							
+		D64gS	83.	13.08	12.	3.	1.	3.10
	HYDROGRAPH AT							
+		D64gW	90.	13.08	13.	3.	1.	3.10
	ROUTED TO							
+		R64gW	83.	13.33	13.	3.	1.	3.10
	HYDROGRAPH AT							
+		68g	101.	12.58	32.	10.	4.	.50
	HYDROGRAPH AT							
+		B68eP	63.	12.00	44.	17.	6.	2.28
	ROUTED TO							
+		P68eS	63.	12.08	44.	17.	6.	2.28
	HYDROGRAPH AT							
+		B68eS	162.	12.92	34.	8.	3.	2.28
	ROUTED TO							
+		R68eS	149.	13.25	34.	8.	3.	2.28
	2 COMBINED AT							
+		C68eS	212.	13.25	78.	26.	9.	2.28
	3 COMBINED AT							
+		C68g	350.	13.25	120.	39.	13.	4.53
	DIVERSION TO							
+		D68gP	82.	12.00	60.	24.	8.	4.53
	HYDROGRAPH AT							
+		D68g	268.	13.25	60.	15.	5.	4.53
	DIVERSION TO							
+		D68gS	150.	13.25	34.	8.	3.	4.53
	HYDROGRAPH AT							
+		D68gW	118.	13.25	26.	7.	2.	4.53
	ROUTED TO							
+		R68gW	110.	13.58	26.	7.	2.	4.53
	HYDROGRAPH AT							
+		72g	218.	12.42	58.	17.	6.	.50
	HYDROGRAPH AT							
+		B72eP	195.	12.33	86.	26.	9.	3.32
	ROUTED TO							
+		P72eS	195.	12.42	86.	26.	9.	3.32
	HYDROGRAPH AT							
+		B72eS	138.	13.17	23.	6.	2.	3.32
	ROUTED TO							
+		R72eS	125.	13.58	23.	6.	2.	3.32
	2 COMBINED AT							
+		C72eS	320.	13.58	109.	32.	11.	3.32
	3 COMBINED AT							
+		C72g	505.	13.50	188.	55.	18.	6.07
	2 COMBINED AT							
+		CC72g	708.	13.17	275.	86.	29.	7.67
	DIVERSION TO							
+		D72gP	178.	12.08	129.	49.	17.	7.67

+	HYDROGRAPH AT D72g	530.	13.17	146.	37.	12.	7.67
	ROUTED TO R72gS	520.	13.50	146.	37.	12.	7.67
+	HYDROGRAPH AT BD72gP	178.	12.08	129.	49.	17.	7.67
+	ROUTED TO P72gS	178.	12.25	129.	49.	17.	7.67
+	2 COMBINED AT C72gS	698.	13.50	275.	86.	29.	7.67
+	HYDROGRAPH AT 84g	112.	12.42	32.	10.	3.	.21
+	HYDROGRAPH AT B84eS	123.	12.75	39.	12.	4.	.68
+	ROUTED TO R84eS	118.	13.17	39.	12.	4.	.68
+	2 COMBINED AT C84g	190.	13.00	70.	22.	7.	.90
+	DIVERSION TO D84gS	90.	13.00	33.	10.	3.	.90
+	HYDROGRAPH AT D84gE	101.	13.00	37.	11.	4.	.90
+	ROUTED TO R84gE	96.	13.50	37.	11.	4.	.90
+	HYDROGRAPH AT 80g	273.	12.42	65.	20.	7.	.50
+	HYDROGRAPH AT BD80e	731.	12.83	195.	49.	16.	1.84
	ROUTED TO R80eS	704.	13.08	194.	49.	16.	1.84
+	HYDROGRAPH AT B80gP1	55.	11.92	53.	27.	9.	6.26
+	4 COMBINED AT C80g	982.	13.08	344.	105.	35.	2.55
+	DIVERSION TO D80g	963.	13.08	325.	88.	29.	2.55
+	HYDROGRAPH AT D80gP	19.	6.08	19.	18.	6.	2.55
+	HYDROGRAPH AT B76gP	57.	12.00	33.	8.	3.	4.92
+	2 COMBINED AT C76gP	76.	12.00	52.	26.	9.	7.47
+	ROUTED TO P76gS	76.	12.17	52.	26.	9.	7.47
+	DIVERSION TO D80iP1	19.	12.17	13.	6.	2.	7.47
+	HYDROGRAPH AT D76iP1	57.	12.17	39.	19.	7.	7.47
+	HYDROGRAPH AT 76i	377.	12.42	91.	29.	10.	.50
+	HYDROGRAPH AT BD76gS	535.	12.83	102.	26.	9.	4.92
+	ROUTED TO R76gS	494.	13.08	102.	26.	9.	4.92
	3 COMBINED AT C76i	741.	13.00	228.	73.	25.	5.42
+	DIVERSION TO D76i1	693.	13.00	184.	46.	15.	5.42

+	HYDROGRAPH AT	D76iP2	48.	11.58	44.	27.	9.	5.42
+	HYDROGRAPH AT	72i	253.	12.42	65.	20.	7.	.50
+	3 COMBINED AT	C72i	852.	13.33	381.	132.	44.	8.68
+	DIVERSION TO	D72i	594.	13.33	180.	45.	15.	8.68
+	HYDROGRAPH AT	D72iP	258.	12.08	201.	87.	29.	8.68
+	DIVERSION TO	D72iP1	226.	12.08	176.	76.	26.	8.68
+	HYDROGRAPH AT	D72iP2	32.	12.08	25.	11.	4.	8.68
+	ROUTED TO	P72iW	32.	12.17	25.	11.	4.	8.68
+	HYDROGRAPH AT	BD76i1	693.	13.00	184.	46.	15.	5.42
+	2 COMBINED AT	CC76i	723.	13.00	209.	57.	19.	5.92
+	DIVERSION TO	D76i	645.	13.00	156.	39.	13.	5.92
+	HYDROGRAPH AT	D76iP	78.	11.92	53.	18.	6.	5.92
+	HYDROGRAPH AT	BD84gS	90.	13.00	33.	10.	3.	.90
+	ROUTED TO	R84gS	87.	13.42	33.	10.	3.	.90
+	HYDROGRAPH AT	84i	92.	12.50	30.	9.	3.	.21
+	2 COMBINED AT	C84i	142.	13.25	62.	19.	6.	1.11
+	ROUTED TO	S84i	11.	17.58	8.	3.	1.	1.11
+	DIVERSION TO	D84iS	4.	17.58	3.	1.	0.	1.11
+	HYDROGRAPH AT	D84iE	7.	17.58	5.	2.	1.	1.11
+	ROUTED TO	R84iE	7.	18.25	5.	2.	1.	1.11
+	HYDROGRAPH AT	80i	370.	12.33	78.	23.	8.	.49
+	HYDROGRAPH AT	BD80g	963.	13.08	325.	88.	29.	2.55
+	ROUTED TO	S80g	963.	13.08	325.	88.	29.	2.55
+	ROUTED TO	R80gS	946.	13.33	325.	88.	29.	2.55
+	HYDROGRAPH AT	B80iP1	19.	12.17	13.	6.	2.	7.47
+	4 COMBINED AT	C80i	1087.	13.25	411.	117.	39.	3.25
+	DIVERSION TO	D80i	1059.	13.25	383.	98.	33.	3.25
+	HYDROGRAPH AT	D80iP	28.	10.08	28.	19.	7.	3.25
	2 COMBINED AT							

+	C76iP	106.	11.92	80.	37.	13.	9.18
ROUTED TO	P76iS	106.	12.00	80.	37.	13.	9.18
DIVERSION TO +	D80kP1	28.	12.00	21.	10.	3.	9.18
HYDROGRAPH AT +	D76kP1	78.	12.00	60.	27.	9.	9.18
HYDROGRAPH AT +	76k	317.	12.33	59.	17.	6.	.32
HYDROGRAPH AT +	BD76i	645.	13.00	156.	39.	13.	5.92
DIVERSION TO +	D76iE	207.	13.00	50.	12.	4.	5.92
HYDROGRAPH AT +	D76iS	439.	13.00	106.	27.	9.	5.92
ROUTED TO +	R76iS	428.	13.17	106.	27.	9.	5.92
3 COMBINED AT +	C76k	594.	13.08	222.	70.	24.	5.74
DIVERSION TO +	D76k1	562.	13.08	190.	48.	16.	5.74
HYDROGRAPH AT +	D76kP2	32.	10.00	32.	23.	8.	5.74
HYDROGRAPH AT +	54i	105.	12.33	27.	9.	3.	.19
HYDROGRAPH AT +	BD54gS	81.	12.25	14.	4.	1.	.25
ROUTED TO	R54gS	70.	12.67	14.	4.	1.	.25
2 COMBINED AT +	C54i	162.	12.58	41.	13.	4.	.44
DIVERSION TO +	D54iP	68.	12.17	30.	10.	3.	.44
HYDROGRAPH AT +	D54i	94.	12.58	11.	3.	1.	.44
DIVERSION TO +	D54iS	35.	12.58	4.	1.	0.	.44
HYDROGRAPH AT +	D54iW	59.	12.58	7.	2.	1.	.44
ROUTED TO +	R54iW	49.	13.08	7.	2.	1.	.44
HYDROGRAPH AT +	56i	297.	12.33	66.	21.	7.	.50
HYDROGRAPH AT +	BD56gP	130.	12.17	53.	18.	6.	.92
ROUTED TO +	P56gS	130.	12.25	53.	18.	6.	.92
HYDROGRAPH AT +	BD56gS	94.	12.58	11.	3.	1.	.92
ROUTED TO +	R56gS	81.	13.00	11.	3.	1.	.92
2 COMBINED AT +	C56gS	211.	13.00	64.	21.	7.	.92
3 COMBINED AT	C56i	421.	12.33	135.	43.	14.	1.62
DIVERSION TO +	D56iP	204.	12.08	94.	33.	11.	1.62

+	HYDROGRAPH AT	D56i	217.	12.33	41.	10.	3.	1.62
+	DIVERSION TO	D56iS	106.	12.33	20.	5.	2.	1.62
+	HYDROGRAPH AT	D56iW	111.	12.33	21.	5.	2.	1.62
+	ROUTED TO	R56iW	108.	13.17	21.	5.	2.	1.62
+	HYDROGRAPH AT	60i	342.	12.33	78.	24.	8.	.50
+	HYDROGRAPH AT	BD60gP	124.	12.08	63.	22.	7.	1.83
+	ROUTED TO	P60gS	124.	12.17	63.	22.	7.	1.83
+	HYDROGRAPH AT	BD60gS	96.	12.83	17.	4.	1.	1.83
+	ROUTED TO	R60gS	89.	13.17	17.	4.	1.	1.83
+	2 COMBINED AT	C60gS	213.	13.17	80.	26.	9.	1.83
+	3 COMBINED AT	C60i	522.	12.75	176.	55.	18.	3.02
+	DIVERSION TO	D60iP	211.	12.08	111.	39.	13.	3.02
+	HYDROGRAPH AT	D60i	311.	12.75	64.	16.	5.	3.02
+	DIVERSION TO	D60iS	184.	12.75	38.	10.	3.	3.02
+	HYDROGRAPH AT	D60iW	127.	12.75	26.	7.	2.	3.02
+	ROUTED TO	R60iW	119.	13.08	26.	7.	2.	3.02
+	HYDROGRAPH AT	BD64gP	153.	12.33	69.	22.	7.	3.10
+	ROUTED TO	P64gS	153.	12.42	69.	22.	7.	3.10
+	HYDROGRAPH AT	BD64gS	83.	13.08	12.	3.	1.	3.10
+	ROUTED TO	R64gS	78.	13.33	12.	3.	1.	3.10
+	2 COMBINED AT	C64gS	231.	13.33	81.	25.	8.	3.10
+	HYDROGRAPH AT	64i	255.	12.42	66.	21.	7.	.50
+	3 COMBINED AT	C64i	457.	13.08	169.	51.	17.	4.79
+	DIVERSION TO	D64iP	214.	12.17	112.	37.	12.	4.79
+	HYDROGRAPH AT	D64i	243.	13.08	58.	14.	5.	4.79
+	DIVERSION TO	D64iS	148.	13.08	35.	9.	3.	4.79
+	HYDROGRAPH AT	D64iW	95.	13.08	23.	6.	2.	4.79
+	ROUTED TO	R64iW	93.	13.42	23.	6.	2.	4.79
+	HYDROGRAPH AT	68i	145.	12.50	45.	15.	5.	.50

+	HYDROGRAPH AT BD68gP	82.	12.00	60.	24.	8.	4.53
	ROUTED TO P68gS	82.	12.08	60.	24.	8.	4.53
+	HYDROGRAPH AT BD68gS	150.	13.25	34.	8.	3.	4.53
+	ROUTED TO R68gS	139.	13.58	34.	8.	3.	4.53
+	2 COMBINED AT C68gS	221.	13.58	94.	32.	11.	4.53
+	3 COMBINED AT C68i	377.	13.50	157.	51.	17.	6.72
+	HYDROGRAPH AT BD72i	594.	13.33	180.	45.	15.	8.68
+	HYDROGRAPH AT B76iE	207.	13.00	50.	12.	4.	5.92
+	ROUTED TO R76iE	196.	13.33	50.	12.	4.	5.92
+	2 COMBINED AT CC72i	789.	13.33	229.	57.	19.	8.68
+	DIVERSION TO D72iS	552.	13.33	160.	40.	13.	8.68
+	HYDROGRAPH AT D72iE	237.	13.33	69.	17.	6.	8.68
+	ROUTED TO R72iE	233.	13.67	69.	17.	6.	8.68
+	2 COMBINED AT CC68i	591.	13.50	222.	68.	23.	10.87
+	DIVERSION TO D68iP	99.	12.00	80.	32.	11.	10.87
+	HYDROGRAPH AT D68i	492.	13.50	142.	35.	12.	10.87
+	ROUTED TO R68iS	491.	13.67	142.	35.	12.	10.87
+	HYDROGRAPH AT BD68iP	99.	12.00	80.	32.	11.	10.87
+	ROUTED TO P68iS	99.	12.08	80.	32.	11.	10.87
+	2 COMBINED AT C68iS	590.	13.67	222.	68.	23.	10.87
+	HYDROGRAPH AT 36i	173.	12.33	39.	12.	4.	.34
+	DIVERSION TO D36iP	41.	12.00	21.	7.	2.	.34
+	HYDROGRAPH AT D36i	132.	12.33	19.	5.	2.	.34
+	DIVERSION TO D36iS	111.	12.33	16.	4.	1.	.34
+	HYDROGRAPH AT D36iW	21.	12.33	3.	1.	0.	.34
+	ROUTED TO R36iW	20.	12.67	3.	1.	0.	.34
+	HYDROGRAPH AT 40i	57.	12.33	17.	6.	2.	.22
+	ROUTED TO S40i	2.	21.08	2.	1.	0.	.22
	2 COMBINED AT						

+	C40i	20.	12.67	3.	1.	0.	.56
+ DIVERSION TO	D40iS	15.	12.67	2.	1.	0.	.56
+ HYDROGRAPH AT	D40iW	5.	12.67	1.	0.	0.	.56
+ ROUTED TO	R40iW	4.	13.08	1.	0.	0.	.56
+ HYDROGRAPH AT	44i	92.	12.42	28.	9.	3.	.35
+ HYDROGRAPH AT	42i	141.	12.25	21.	6.	2.	.27
+ ROUTED TO	R42iW	132.	12.42	21.	6.	2.	.27
+ 3 COMBINED AT	C44i	217.	12.42	48.	15.	5.	1.18
+ DIVERSION TO	D44iP	48.	12.08	25.	9.	3.	1.18
+ HYDROGRAPH AT	D44i	169.	12.42	23.	6.	2.	1.18
+ DIVERSION TO	D44iS	84.	12.42	11.	3.	1.	1.18
+ HYDROGRAPH AT	D44iW	85.	12.42	11.	3.	1.	1.18
+ ROUTED TO	R44iW	79.	12.67	11.	3.	1.	1.18
+ HYDROGRAPH AT	48i	169.	12.42	38.	11.	4.	.54
+ 2 COMBINED AT	C48i	224.	12.58	48.	14.	5.	1.72
+ DIVERSION TO	D48iP	47.	12.08	22.	7.	2.	1.72
+ HYDROGRAPH AT	D48i	177.	12.58	26.	6.	2.	1.72
+ DIVERSION TO	D48iS	87.	12.58	13.	3.	1.	1.72
+ HYDROGRAPH AT	D48iW	91.	12.58	13.	3.	1.	1.72
+ ROUTED TO	R48iW	86.	12.75	13.	3.	1.	1.72
+ HYDROGRAPH AT	BD48iP	47.	12.08	22.	7.	2.	1.72
+ ROUTED TO	P48iW	47.	12.17	22.	7.	2.	1.72
+ 2 COMBINED AT	C48iW	133.	12.75	35.	11.	4.	1.72
+ HYDROGRAPH AT	52g	114.	12.25	18.	5.	2.	.26
+ ROUTED TO	R52gS	94.	12.67	18.	5.	2.	.26
+ HYDROGRAPH AT	52i	155.	12.33	36.	11.	4.	.31
+ 3 COMBINED AT	C52i	340.	12.67	87.	26.	9.	2.29
+ DIVERSION TO	DB52i	245.	12.67	38.	9.	3.	2.29
+ HYDROGRAPH AT	E52i	95.	12.08	49.	17.	6.	2.29

+	HYDROGRAPH AT	BDB52i	245.	12.67	38.	9.	3.	2.29
	ROUTED TO	S52i	72.	13.42	38.	9.	3.	2.29
+	2 COMBINED AT	CC52i	167.	13.42	86.	26.	9.	2.29
+	DIVERSION TO	D52iP	95.	12.08	64.	21.	7.	2.29
+	HYDROGRAPH AT	D52i	72.	13.42	22.	5.	2.	2.29
+	ROUTED TO	R52iS	72.	13.75	22.	5.	2.	2.29
+	HYDROGRAPH AT	BD52iP	95.	12.08	64.	21.	7.	2.29
+	ROUTED TO	P52iS	95.	12.25	64.	21.	7.	2.29
+	2 COMBINED AT	C52iS	167.	13.75	86.	26.	9.	2.29
+	HYDROGRAPH AT	24k	154.	12.25	27.	8.	3.	.19
+	DIVERSION TO	D24kS	77.	12.25	14.	4.	1.	.19
+	HYDROGRAPH AT	D24kW	77.	12.25	14.	4.	1.	.19
+	ROUTED TO	R24kW	69.	12.58	14.	4.	1.	.19
+	HYDROGRAPH AT	ARC40	47.	13.00	12.	4.	1.	.10
	ROUTED TO	PARC40	46.	13.08	12.	4.	1.	.10
+	HYDROGRAPH AT	28k	235.	12.33	51.	16.	5.	.43
+	3 COMBINED AT	C28k	305.	12.50	76.	23.	8.	.72
+	DIVERSION TO	D28kP	131.	12.17	54.	18.	6.	.72
+	HYDROGRAPH AT	D28k	174.	12.50	22.	5.	2.	.72
+	DIVERSION TO	D28kS	73.	12.50	9.	2.	1.	.72
+	HYDROGRAPH AT	D28kW	100.	12.50	13.	3.	1.	.72
+	ROUTED TO	R28kW	90.	12.83	13.	3.	1.	.72
+	HYDROGRAPH AT	32k	142.	12.42	39.	13.	4.	.51
+	2 COMBINED AT	C32k	210.	12.75	51.	16.	5.	1.23
+	DIVERSION TO	D32kP	45.	12.08	25.	9.	3.	1.23
+	HYDROGRAPH AT	D32k	165.	12.75	26.	6.	2.	1.23
+	DIVERSION TO	D32kS	75.	12.75	12.	3.	1.	1.23
	HYDROGRAPH AT	D32kW	89.	12.75	14.	3.	1.	1.23
+	ROUTED TO	R32kW	82.	13.00	14.	3.	1.	1.23

+	HYDROGRAPH AT 36k	250.	12.33	58.	18.	6.	.51
+	HYDROGRAPH AT BD36iP	41.	12.00	21.	7.	2.	.34
+	ROUTED TO P36iS	41.	12.17	21.	7.	2.	.34
+	HYDROGRAPH AT BD36iS	111.	12.33	16.	4.	1.	.34
+	ROUTED TO R36iS	96.	12.83	16.	4.	1.	.34
+	2 COMBINED AT C36iS	137.	12.83	36.	11.	4.	.34
+	3 COMBINED AT C36k	377.	12.83	105.	32.	11.	2.07
+	DIVERSION TO D36kP	59.	11.92	39.	15.	5.	2.07
+	HYDROGRAPH AT D36k	318.	12.83	66.	17.	6.	2.07
+	DIVERSION TO D36kS	140.	12.83	29.	7.	2.	2.07
+	HYDROGRAPH AT D36kW	179.	12.83	37.	9.	3.	2.07
+	ROUTED TO R36kW	174.	13.00	37.	9.	3.	2.07
+	HYDROGRAPH AT BD40iS	15.	12.67	2.	1.	0.	.56
+	ROUTED TO R40iS	12.	13.33	2.	1.	0.	.56
+	HYDROGRAPH AT 40k	264.	12.42	64.	19.	6.	.50
+	3 COMBINED AT C40k	371.	12.58	101.	29.	10.	2.80
+	DIVERSION TO D40kP	29.	11.83	22.	9.	3.	2.80
+	HYDROGRAPH AT D40k	342.	12.58	79.	20.	7.	2.80
+	DIVERSION TO D40kS	144.	12.58	33.	8.	3.	2.80
+	HYDROGRAPH AT D40kW	198.	12.58	46.	11.	4.	2.80
+	ROUTED TO R40kW	196.	12.83	46.	11.	4.	2.80
+	HYDROGRAPH AT 44k	312.	12.33	74.	23.	8.	.51
+	HYDROGRAPH AT BD44iP	48.	12.08	25.	9.	3.	1.18
+	ROUTED TO P44iS	48.	12.33	25.	9.	3.	1.18
+	HYDROGRAPH AT BD44iS	84.	12.42	11.	3.	1.	1.18
+	ROUTED TO R44iS	75.	12.83	11.	3.	1.	1.18
+	2 COMBINED AT C44iS	123.	12.83	37.	12.	4.	1.18
+	3 COMBINED AT C44k	550.	12.75	154.	46.	15.	3.93
	DIVERSION TO						

+	D44kP	71.	11.92	50.	20.	7.	3.93
HYDROGRAPH AT	D44k	479.	12.75	104.	26.	9.	3.93
DIVERSION TO +	D44kS	182.	12.75	40.	10.	3.	3.93
HYDROGRAPH AT +	D44kW	297.	12.75	65.	16.	5.	3.93
ROUTED TO +	R44kW	289.	12.83	65.	16.	5.	3.93
HYDROGRAPH AT +	48k	329.	12.42	85.	27.	9.	.50
ROUTED TO +	S48k	329.	12.42	85.	26.	9.	.50
HYDROGRAPH AT +	BD48iS	87.	12.58	13.	3.	1.	1.72
ROUTED TO +	R48iS	78.	13.00	13.	3.	1.	1.72
3 COMBINED AT +	C48k	595.	12.83	158.	45.	15.	4.96
DIVERSION TO +	D48kS	267.	12.83	71.	20.	7.	4.96
HYDROGRAPH AT +	D48kW	328.	12.83	87.	25.	8.	4.96
ROUTED TO +	R48kW	326.	12.92	87.	25.	8.	4.96
HYDROGRAPH AT +	52k	168.	12.42	47.	14.	5.	.29
3 COMBINED AT	C52k	589.	12.92	216.	64.	21.	5.83
DIVERSION TO +	D52kP	201.	12.17	129.	42.	14.	5.83
HYDROGRAPH AT +	D52k	388.	12.92	88.	22.	7.	5.83
DIVERSION TO +	D52kS	175.	12.92	39.	10.	3.	5.83
HYDROGRAPH AT +	D52kW	213.	12.92	48.	12.	4.	5.83
ROUTED TO +	R52kW	210.	13.00	48.	12.	4.	5.83
HYDROGRAPH AT +	BD54iP	68.	12.17	30.	10.	3.	.44
ROUTED TO +	P54iS	68.	12.33	30.	10.	3.	.44
HYDROGRAPH AT +	BD54iS	35.	12.58	4.	1.	0.	.44
ROUTED TO +	R54iS	27.	13.25	4.	1.	0.	.44
2 COMBINED AT +	C54iS	95.	13.25	34.	11.	4.	.44
HYDROGRAPH AT +	54k	146.	12.42	43.	14.	5.	.25
3 COMBINED AT +	C54k	409.	12.92	126.	37.	12.	1.18
DIVERSION TO	D54kP	124.	12.17	66.	22.	7.	1.18
HYDROGRAPH AT +	D54k	285.	12.92	60.	15.	5.	1.18

+	DIVERSION TO						
		D54kS	146.	12.92	27.	7.	2.	1.18
+	HYDROGRAPH AT						
		D54kW	139.	12.92	33.	8.	3.	1.18
+	ROUTED TO						
		R54kW	133.	13.50	33.	8.	3.	1.18
+	HYDROGRAPH AT						
		BD56iP	204.	12.08	94.	33.	11.	1.62
+	ROUTED TO						
		P56iS	204.	12.17	94.	33.	11.	1.62
+	HYDROGRAPH AT						
		BD56iS	106.	12.33	20.	5.	2.	1.62
+	ROUTED TO						
		R56iS	103.	13.08	20.	5.	2.	1.62
+	2 COMBINED AT						
		C56iS	307.	13.08	114.	38.	13.	1.62
+	HYDROGRAPH AT						
		56k	303.	12.33	65.	21.	7.	.42
+	3 COMBINED AT						
		C56k	540.	12.67	209.	65.	22.	2.78
+	HYDROGRAPH AT						
		BD60iP	211.	12.08	111.	39.	13.	3.02
+	DIVERSION TO						
		D60iP2	143.	12.08	75.	26.	9.	3.02
+	HYDROGRAPH AT						
		D60iP1	68.	12.08	36.	13.	4.	3.02
+	ROUTED TO						
		P60iS1	68.	12.17	36.	13.	4.	3.02
+	HYDROGRAPH AT						
		B60iP2	143.	12.08	75.	26.	9.	3.02
+	ROUTED TO						
		P60iS2	143.	12.17	75.	26.	9.	3.02
+	HYDROGRAPH AT						
		BD60iS	184.	12.75	38.	10.	3.	3.02
+	ROUTED TO						
		R60iS	176.	13.00	38.	10.	3.	3.02
+	3 COMBINED AT						
		C60iS	387.	13.00	149.	49.	16.	3.02
+	HYDROGRAPH AT						
		60k	203.	12.33	46.	14.	5.	.27
+	2 COMBINED AT						
		C60k	519.	12.58	193.	62.	21.	3.29
+	DIVERSION TO						
		D60k	384.	12.58	101.	25.	8.	3.29
+	HYDROGRAPH AT						
		D60kP	135.	11.92	92.	37.	12.	3.29
+	DIVERSION TO						
		D60kP2	125.	11.92	85.	34.	11.	3.29
+	HYDROGRAPH AT						
		D60kP1	10.	11.92	7.	3.	1.	3.29
+	ROUTED TO						
		P60kE	10.	12.08	7.	3.	1.	3.29
+	2 COMBINED AT						
		CC56k	546.	12.67	214.	68.	23.	4.46
+	DIVERSION TO						
		D56kP	303.	12.08	159.	54.	18.	4.46
+	HYDROGRAPH AT						
		D56k	243.	12.67	56.	14.	5.	4.46

+	DIVERSION TO	D56kS	103.	12.67	20.	5.	2.	4.46
	HYDROGRAPH AT	D56kW	140.	12.67	36.	9.	3.	4.46
+	ROUTED TO	R56kW	130.	13.50	36.	9.	3.	4.46
+	HYDROGRAPH AT	BD60k	384.	12.58	101.	25.	8.	3.29
+	2 COMBINED AT	CC60k	484.	12.92	136.	34.	11.	4.46
+	DIVERSION TO	D60kS	334.	12.92	85.	21.	7.	4.46
+	HYDROGRAPH AT	D60kW	151.	12.92	51.	13.	4.	4.46
+	ROUTED TO	R60kW	148.	13.25	51.	13.	4.	4.46
+	HYDROGRAPH AT	64k	191.	12.25	34.	10.	3.	.21
+	HYDROGRAPH AT	BD64iS	148.	13.08	35.	9.	3.	4.79
+	ROUTED TO	R64iS	147.	13.25	35.	9.	3.	4.79
+	3 COMBINED AT	C64k	350.	12.75	117.	31.	10.	6.43
+	ROUTED TO	S64k	222.	13.92	92.	25.	8.	6.43
	HYDROGRAPH AT	BD64iP	214.	12.17	112.	37.	12.	4.79
+	ROUTED TO	P64iS	214.	12.25	112.	37.	12.	4.79
+	2 COMBINED AT	CC64k	436.	13.92	199.	62.	21.	6.43
+	DIVERSION TO	D64kP	214.	12.25	147.	49.	16.	6.43
+	HYDROGRAPH AT	D64k	222.	13.92	51.	13.	4.	6.43
+	DIVERSION TO	D64kS	44.	13.92	6.	1.	0.	6.43
+	HYDROGRAPH AT	D64kW	179.	13.92	46.	11.	4.	6.43
+	ROUTED TO	R64kW	177.	14.17	46.	11.	4.	6.43
+	HYDROGRAPH AT	68k	208.	12.33	38.	11.	4.	.20
+	3 COMBINED AT	C68k	742.	13.75	296.	88.	29.	12.71
+	DIVERSION TO	D68kP	114.	11.92	94.	37.	12.	12.71
+	HYDROGRAPH AT	D68k	628.	13.75	202.	50.	17.	12.71
+	DIVERSION TO	D68kS	447.	13.75	130.	32.	11.	12.71
	HYDROGRAPH AT	D68kW	182.	13.75	72.	18.	6.	12.71
+	ROUTED TO	R68kW	177.	14.08	72.	18.	6.	12.71
	HYDROGRAPH AT							

+		72k	271.	12.33	54.	16.	5.	.28
	ROUTED TO							
+		S72k	260.	12.42	48.	13.	4.	.28
	HYDROGRAPH AT							
+		B72iP1	226.	12.08	176.	76.	26.	8.68
	ROUTED TO							
+		P72iS	226.	12.25	176.	76.	26.	8.68
	HYDROGRAPH AT							
+		BD72iS	552.	13.33	160.	40.	13.	8.68
	ROUTED TO							
+		R72iS	548.	13.50	160.	40.	13.	8.68
	2 COMBINED AT							
+		C72iS	774.	13.50	336.	116.	39.	8.68
	3 COMBINED AT							
+		C72k	955.	13.50	445.	144.	48.	12.99
	2 COMBINED AT							
+		CC72k	987.	13.50	477.	166.	56.	12.99
	DIVERSION TO							
+		D72kP	281.	12.17	232.	105.	36.	12.99
	HYDROGRAPH AT							
+		D72k	706.	13.50	244.	61.	20.	12.99
	DIVERSION TO							
+		D72kS	516.	13.50	167.	42.	14.	12.99
	HYDROGRAPH AT							
+		D72kW	190.	13.50	77.	19.	6.	12.99
	ROUTED TO							
+		R72kW	188.	13.92	77.	19.	6.	12.99
	HYDROGRAPH AT							
		B76k1	562.	13.08	190.	48.	16.	5.74
	2 COMBINED AT							
+		CC76k	687.	13.25	262.	66.	22.	13.31
	DIVERSION TO							
+		D76kP	43.	11.83	36.	9.	3.	13.31
	HYDROGRAPH AT							
+		D76k	644.	13.25	226.	56.	19.	13.31
	DIVERSION TO							
+		D76kS	498.	13.25	164.	41.	14.	13.31
	HYDROGRAPH AT							
+		D76kW	146.	13.25	62.	15.	5.	13.31
	ROUTED TO							
+		R76kW	140.	13.92	61.	15.	5.	13.31
	HYDROGRAPH AT							
+		80k	398.	12.33	84.	24.	8.	.43
	HYDROGRAPH AT							
+		BD80i	1059.	13.25	383.	98.	33.	3.25
	ROUTED TO							
+		R80iS	1052.	13.33	383.	98.	33.	3.25
	HYDROGRAPH AT							
+		B80kP1	28.	12.00	21.	10.	3.	9.18
	3 COMBINED AT							
+		C80k	1203.	13.25	482.	131.	44.	3.68
	DIVERSION TO							
+		D80kP	63.	11.75	63.	26.	9.	3.68
	HYDROGRAPH AT							
+		D80k	1140.	13.25	420.	105.	35.	3.68
	2 COMBINED AT							
+		CC80k	1249.	13.33	481.	120.	40.	4.68

+	DIVERSION TO	D80kS	559.	13.33	170.	43.	14.	4.68
	HYDROGRAPH AT	D80kW	690.	13.33	310.	78.	26.	4.68
+	ROUTED TO	R80kW	686.	13.42	310.	78.	26.	4.68
+	HYDROGRAPH AT	84k	188.	12.58	63.	19.	6.	.31
+	HYDROGRAPH AT	BD84iS	4.	17.58	3.	1.	0.	1.11
+	ROUTED TO	R84iS	4.	19.25	3.	1.	0.	1.11
+	3 COMBINED AT	C84k	801.	13.33	369.	97.	32.	4.99
+	ROUTED TO	R84kS	798.	13.50	369.	97.	32.	4.99
+	HYDROGRAPH AT	84m	154.	12.42	44.	13.	4.	.21
+	2 COMBINED AT	C84m	869.	13.42	410.	109.	36.	5.20
+	HYDROGRAPH AT	I17	293.	12.33	83.	29.	10.	.29
+	DIVERSION TO	D84mP	249.	12.17	81.	29.	10.	.29
+	HYDROGRAPH AT	D84m	44.	12.33	2.	1.	0.	.29
+	2 COMBINED AT	CC84m	869.	13.42	411.	109.	37.	5.49
	DIVERSION TO	D84mS	333.	13.42	158.	42.	14.	5.49
+	HYDROGRAPH AT	D84mE	535.	13.42	254.	67.	23.	5.49
+	ROUTED TO	R84mE	532.	13.58	253.	67.	23.	5.49
+	HYDROGRAPH AT	80m	509.	12.33	105.	30.	10.	.54
+	HYDROGRAPH AT	BD80kS	559.	13.33	170.	43.	14.	4.68
+	ROUTED TO	R80kS	540.	13.58	170.	43.	14.	4.68
+	3 COMBINED AT	C80m	1173.	13.50	519.	139.	47.	6.03
+	DIVERSION TO	D80mS	676.	13.50	299.	80.	27.	6.03
+	HYDROGRAPH AT	D80mE	497.	13.50	220.	59.	20.	6.03
+	ROUTED TO	R80mE	494.	13.67	219.	59.	20.	6.03
+	HYDROGRAPH AT	76l	261.	12.17	35.	10.	3.	.18
+	HYDROGRAPH AT	BD80kP	63.	11.75	63.	26.	9.	3.68
+	HYDROGRAPH AT	BD76kP	43.	11.83	36.	9.	3.	13.31
	2 COMBINED AT	C76kP	106.	11.83	97.	34.	12.	17.25
+	ROUTED TO	P76kS	106.	11.92	97.	34.	12.	17.25

+	HYDROGRAPH AT	BD76kS	498.	13.25	164.	41.	14.	13.31
+	ROUTED TO	R76kS	494.	13.25	164.	41.	14.	13.31
+	2 COMBINED AT	C76kS	621.	13.25	269.	78.	26.	4.68
+	2 COMBINED AT	C76l	643.	13.25	302.	88.	29.	4.86
+	DIVERSION TO	D76lP	156.	11.83	134.	45.	15.	4.86
+	HYDROGRAPH AT	D76l	487.	13.25	169.	42.	14.	4.86
+	ROUTED TO	R76lS	473.	13.50	169.	42.	14.	4.86
+	HYDROGRAPH AT	BD76lP	156.	11.83	134.	45.	15.	4.86
+	ROUTED TO	P76lS	156.	12.00	134.	45.	15.	4.86
+	2 COMBINED AT	C76lS	629.	13.50	302.	88.	29.	4.86
+	HYDROGRAPH AT	76m	466.	12.33	96.	27.	9.	.49
+	ROUTED TO	S76m	462.	12.33	96.	27.	9.	.49
+	3 COMBINED AT	C76m	1224.	13.42	610.	172.	58.	6.71
+	DIVERSION TO	D76m	1033.	13.42	430.	108.	36.	6.71
+	HYDROGRAPH AT	D76mP	191.	11.83	180.	65.	22.	6.71
+	DIVERSION TO	D76mP2	32.	11.83	30.	11.	4.	6.71
+	HYDROGRAPH AT	D76mP1	159.	11.83	150.	54.	18.	6.71
+	HYDROGRAPH AT	72l	131.	12.42	35.	10.	4.	.22
+	HYDROGRAPH AT	BD72kP	281.	12.17	232.	105.	36.	12.99
+	ROUTED TO	P72kS	281.	12.25	232.	105.	36.	12.99
+	HYDROGRAPH AT	BD72kS	516.	13.50	167.	42.	14.	12.99
+	ROUTED TO	R72kS	514.	13.58	167.	42.	14.	12.99
+	2 COMBINED AT	C72kS	795.	13.58	399.	147.	50.	12.99
+	2 COMBINED AT	C72l	843.	13.50	431.	156.	53.	13.21
+	DIVERSION TO	D72lP	305.	12.17	251.	111.	38.	13.21
+	HYDROGRAPH AT	D72l	538.	13.50	180.	45.	15.	13.21
+	ROUTED TO	R72lS	531.	13.75	180.	45.	15.	13.21
+	HYDROGRAPH AT	BD72lP	305.	12.17	251.	111.	38.	13.21
	ROUTED TO							

+	P721S	305.	12.33	251.	111.	38.	13.21
2 COMBINED AT	C721S	836.	13.75	430.	156.	53.	13.21
HYDROGRAPH AT +	72m	386.	12.42	95.	28.	9.	.47
3 COMBINED AT +	C72m	1099.	13.58	667.	235.	79.	13.67
HYDROGRAPH AT +	601	174.	12.33	38.	12.	4.	.23
HYDROGRAPH AT +	B60kP2	125.	11.92	85.	34.	11.	3.29
ROUTED TO +	P60kS	125.	12.00	85.	34.	11.	3.29
HYDROGRAPH AT +	BD60kS	334.	12.92	85.	21.	7.	4.46
ROUTED TO +	R60kS	332.	13.00	85.	21.	7.	4.46
2 COMBINED AT +	C60kS	457.	13.00	171.	55.	19.	4.46
2 COMBINED AT +	C601	553.	12.83	207.	67.	22.	4.69
DIVERSION TO +	D601P	93.	11.75	75.	34.	11.	4.69
HYDROGRAPH AT +	D601	460.	12.83	132.	33.	11.	4.69
DIVERSION TO +	D601S	335.	12.83	96.	24.	8.	4.69
HYDROGRAPH AT	D601W	125.	12.83	36.	9.	3.	4.69
ROUTED TO +	R601W	123.	13.17	36.	9.	3.	4.69
HYDROGRAPH AT +	641	148.	12.50	40.	12.	4.	.29
HYDROGRAPH AT +	BD64kS	44.	13.92	6.	1.	0.	6.43
ROUTED TO +	R64kS	42.	14.08	6.	1.	0.	6.43
3 COMBINED AT +	C641	233.	12.83	80.	22.	7.	6.96
ROUTED TO +	S641	53.	14.75	14.	4.	1.	6.96
HYDROGRAPH AT +	BD64kP	214.	12.25	147.	49.	16.	6.43
ROUTED TO +	P64kS	214.	12.33	147.	49.	16.	6.43
2 COMBINED AT +	CC641	267.	14.75	160.	53.	18.	6.96
DIVERSION TO +	D641P	265.	14.75	160.	53.	18.	6.96
HYDROGRAPH AT +	D641	3.	14.42	0.	0.	0.	6.96
DIVERSION TO +	D641S	3.	14.42	0.	0.	0.	6.96
HYDROGRAPH AT	D641W	0.	14.42	0.	0.	0.	6.96
ROUTED TO +	R641W	0.	15.50	0.	0.	0.	6.96

+	HYDROGRAPH AT 681	234.	12.42	63.	18.	6.	.32
+	HYDROGRAPH AT BD68kP	114.	11.92	94.	37.	12.	12.71
+	ROUTED TO P68kS	114.	12.00	94.	37.	12.	12.71
+	HYDROGRAPH AT BD68kS	447.	13.75	130.	32.	11.	12.71
+	ROUTED TO R68kS	442.	13.83	130.	32.	11.	12.71
+	2 COMBINED AT C68kS	556.	13.83	223.	69.	23.	12.71
+	3 COMBINED AT C681	615.	13.83	281.	86.	29.	13.56
+	DIVERSION TO D681P	114.	11.83	98.	40.	14.	13.56
+	HYDROGRAPH AT D681	501.	13.83	183.	46.	15.	13.56
+	ROUTED TO R681S	488.	14.08	183.	46.	15.	13.56
+	HYDROGRAPH AT BD681P	114.	11.83	98.	40.	14.	13.56
+	ROUTED TO P681S	114.	12.00	98.	40.	14.	13.56
+	2 COMBINED AT C681S	602.	14.08	280.	86.	29.	13.56
+	HYDROGRAPH AT 24m	195.	12.42	50.	16.	5.	.50
+	ROUTED TO S24m	195.	12.42	50.	16.	5.	.50
+	HYDROGRAPH AT BD24kS	77.	12.25	14.	4.	1.	.19
+	ROUTED TO R24kS	67.	12.67	14.	4.	1.	.19
+	2 COMBINED AT C24m	245.	12.58	63.	20.	7.	.69
+	DIVERSION TO D24mS	105.	12.58	27.	8.	3.	.69
+	HYDROGRAPH AT D24mW	140.	12.58	36.	11.	4.	.69
+	ROUTED TO R24mW	133.	12.83	36.	11.	4.	.69
+	HYDROGRAPH AT 28m	158.	12.42	43.	14.	5.	.51
+	HYDROGRAPH AT BD28kP	131.	12.17	54.	18.	6.	.72
+	ROUTED TO P28kS	131.	12.33	54.	18.	6.	.72
+	HYDROGRAPH AT BD28kS	73.	12.50	9.	2.	1.	.72
+	ROUTED TO R28kS	64.	12.92	9.	2.	1.	.72
+	2 COMBINED AT C28kS	195.	12.92	64.	20.	7.	.72
+	3 COMBINED AT C28m	442.	12.83	140.	44.	15.	1.73
+	DIVERSION TO D28mP	211.	12.17	103.	35.	12.	1.73

+	HYDROGRAPH AT	D28m	231.	12.83	37.	9.	3.	1.73
	DIVERSION TO	D28mS	102.	12.83	16.	4.	1.	1.73
+	HYDROGRAPH AT	D28mW	129.	12.83	21.	5.	2.	1.73
+	ROUTED TO	R28mW	123.	13.00	21.	5.	2.	1.73
+	HYDROGRAPH AT	32m	277.	12.33	65.	20.	7.	.51
+	ROUTED TO	S32m	277.	12.42	65.	20.	7.	.51
+	HYDROGRAPH AT	BD32kP	45.	12.08	25.	9.	3.	1.23
+	ROUTED TO	P32kS	45.	12.25	25.	9.	3.	1.23
+	HYDROGRAPH AT	BD32kS	75.	12.75	12.	3.	1.	1.23
+	ROUTED TO	R32kS	69.	13.17	12.	3.	1.	1.23
+	2 COMBINED AT	C32kS	114.	13.17	37.	12.	4.	1.23
+	3 COMBINED AT	C32m	390.	12.92	119.	37.	12.	2.75
+	DIVERSION TO	D32mP	66.	11.92	45.	18.	6.	2.75
+	HYDROGRAPH AT	D32m	324.	12.92	74.	18.	6.	2.75
+	DIVERSION TO	D32mS	139.	12.92	32.	8.	3.	2.75
+	HYDROGRAPH AT	D32mW	185.	12.92	42.	11.	4.	2.75
+	ROUTED TO	R32mW	178.	13.08	42.	11.	4.	2.75
+	HYDROGRAPH AT	36m	206.	12.42	54.	17.	6.	.51
+	HYDROGRAPH AT	BD36kP	59.	11.92	39.	15.	5.	2.07
+	ROUTED TO	P36kS	59.	12.08	39.	15.	5.	2.07
+	HYDROGRAPH AT	BD36kS	140.	12.83	29.	7.	2.	2.07
+	ROUTED TO	R36kS	132.	13.08	29.	7.	2.	2.07
+	2 COMBINED AT	C36kS	191.	13.08	68.	22.	7.	2.07
+	3 COMBINED AT	C36m	493.	12.92	161.	49.	16.	4.11
+	DIVERSION TO	D36mP	114.	12.08	74.	28.	9.	4.11
+	HYDROGRAPH AT	D36m	379.	12.92	87.	22.	7.	4.11
+	DIVERSION TO	D36mS	182.	12.92	42.	10.	3.	4.11
+	HYDROGRAPH AT	D36mW	197.	12.92	45.	11.	4.	4.11
	ROUTED TO							

+		R36mW	193.	13.08	45.	11.	4.	4.11
+	HYDROGRAPH AT	40m	331.	12.33	75.	23.	8.	.51
+	HYDROGRAPH AT	BD40kP	29.	11.83	22.	9.	3.	2.80
+	ROUTED TO	P40kS	29.	12.08	22.	9.	3.	2.80
+	HYDROGRAPH AT	BD40kS	144.	12.58	33.	8.	3.	2.80
+	ROUTED TO	R40kS	141.	12.92	33.	8.	3.	2.80
+	2 COMBINED AT	C40kS	170.	12.92	55.	17.	6.	2.80
+	3 COMBINED AT	C40m	549.	12.83	171.	51.	17.	5.35
+	DIVERSION TO	D40mP	66.	11.92	50.	20.	7.	5.35
+	HYDROGRAPH AT	D40m	483.	12.83	122.	30.	10.	5.35
+	DIVERSION TO	D40mS	208.	12.83	52.	13.	4.	5.35
+	HYDROGRAPH AT	D40mW	276.	12.83	69.	17.	6.	5.35
+	ROUTED TO	R40mW	271.	13.00	69.	17.	6.	5.35
+	HYDROGRAPH AT	44m	262.	12.42	64.	20.	7.	.50
+	HYDROGRAPH AT	BD44kP	71.	11.92	50.	20.	7.	3.93
+	ROUTED TO	P44kS	71.	14.67	50.	20.	7.	3.93
+	HYDROGRAPH AT	BD44kS	182.	12.75	40.	10.	3.	3.93
+	ROUTED TO	R44kS	173.	13.00	40.	10.	3.	3.93
+	2 COMBINED AT	C44kS	244.	13.00	89.	30.	10.	3.93
+	3 COMBINED AT	C44m	675.	12.92	219.	66.	22.	6.98
+	DIVERSION TO	D44mP	124.	12.00	86.	33.	11.	6.98
+	HYDROGRAPH AT	D44m	551.	12.92	132.	33.	11.	6.98
+	DIVERSION TO	D44mS	233.	12.92	56.	14.	5.	6.98
+	HYDROGRAPH AT	D44mW	318.	12.92	76.	19.	6.	6.98
+	ROUTED TO	R44mW	305.	13.08	76.	19.	6.	6.98
+	HYDROGRAPH AT	24o	278.	12.42	70.	22.	7.	.50
+	HYDROGRAPH AT	BD24mS	105.	12.58	27.	8.	3.	.69
+	ROUTED TO	R24mS	99.	12.92	27.	8.	3.	.69
+	2 COMBINED AT	C24o	312.	12.67	96.	30.	10.	1.20

+	DIVERSION TO	D24oP	48.	11.92	36.	15.	5.	1.20
	HYDROGRAPH AT	D24o	264.	12.67	60.	15.	5.	1.20
+	DIVERSION TO	D24oS	100.	12.67	23.	6.	2.	1.20
+	HYDROGRAPH AT	D24oW	164.	12.67	37.	9.	3.	1.20
+	ROUTED TO	R24oW	162.	12.83	37.	9.	3.	1.20
+	HYDROGRAPH AT	28o	178.	12.50	49.	16.	5.	.50
+	HYDROGRAPH AT	BD28mP	211.	12.17	103.	35.	12.	1.73
+	ROUTED TO	P28mS	211.	12.33	103.	35.	12.	1.73
+	HYDROGRAPH AT	BD28mS	102.	12.83	16.	4.	1.	1.73
+	ROUTED TO	R28mS	95.	13.17	16.	4.	1.	1.73
+	2 COMBINED AT	C28mS	306.	13.17	119.	39.	13.	1.73
+	3 COMBINED AT	C28o	573.	13.00	202.	63.	21.	2.73
+	DIVERSION TO	D28oP	367.	12.33	169.	55.	18.	2.73
+	HYDROGRAPH AT	D28o	206.	13.00	33.	8.	3.	2.73
	DIVERSION TO	D28oS	87.	13.00	14.	4.	1.	2.73
+	HYDROGRAPH AT	D28oW	120.	13.00	19.	5.	2.	2.73
+	ROUTED TO	R28oW	113.	13.17	19.	5.	2.	2.73
+	HYDROGRAPH AT	32o	262.	12.42	64.	20.	7.	.50
+	HYDROGRAPH AT	BD32mS	139.	12.92	32.	8.	3.	2.75
+	ROUTED TO	R32mS	133.	13.17	32.	8.	3.	2.75
+	HYDROGRAPH AT	BD32mP	66.	11.92	45.	18.	6.	2.75
+	ROUTED TO	P32mS	66.	12.08	45.	18.	6.	2.75
+	2 COMBINED AT	C32mS	199.	13.17	77.	26.	9.	2.75
+	3 COMBINED AT	C32o	450.	13.00	158.	50.	17.	4.25
+	DIVERSION TO	D32oP	160.	12.08	96.	34.	12.	4.25
+	HYDROGRAPH AT	D32o	290.	13.00	62.	16.	5.	4.25
+	DIVERSION TO	D32oS	128.	13.00	27.	7.	2.	4.25
	HYDROGRAPH AT	D32oW	162.	13.00	35.	9.	3.	4.25
+	ROUTED TO	R32oW	160.	13.17	35.	9.	3.	4.25

	HYDROGRAPH AT							
+		36o	312.	12.42	72.	21.	7.	.50
	HYDROGRAPH AT							
+		BD36mP	114.	12.08	74.	28.	9.	4.11
	ROUTED TO							
+		P36mS	114.	12.25	74.	28.	9.	4.11
	HYDROGRAPH AT							
+		BD36mS	182.	12.92	42.	10.	3.	4.11
	ROUTED TO							
+		R36mS	177.	13.25	42.	10.	3.	4.11
	2 COMBINED AT							
+		C36mS	291.	13.25	116.	38.	13.	4.11
	3 COMBINED AT							
+		C36o	596.	13.00	218.	67.	22.	6.12
	DIVERSION TO							
+		D36oP	139.	12.00	97.	37.	12.	6.12
	HYDROGRAPH AT							
+		D36o	457.	13.00	121.	30.	10.	6.12
	DIVERSION TO							
+		D36oS	196.	13.00	52.	13.	4.	6.12
	HYDROGRAPH AT							
+		D36oW	260.	13.00	69.	17.	6.	6.12
	ROUTED TO							
+		R36oW	257.	13.17	69.	17.	6.	6.12
	HYDROGRAPH AT							
+		B40mP	66.	11.92	50.	20.	7.	5.35
	ROUTED TO							
+		P40mS	66.	12.08	50.	20.	7.	5.35
	HYDROGRAPH AT							
+		BD40mS	208.	12.83	52.	13.	4.	5.35
	ROUTED TO							
+		R40mS	202.	13.17	52.	13.	4.	5.35
	2 COMBINED AT							
+		C40mS	268.	13.17	102.	33.	11.	5.35
	HYDROGRAPH AT							
+		40o	263.	12.42	59.	18.	6.	.47
	3 COMBINED AT							
+		C40o	643.	13.00	226.	67.	23.	7.82
	DIVERSION TO							
+		D40oP	70.	11.83	58.	26.	9.	7.82
	HYDROGRAPH AT							
+		D40o	573.	13.00	168.	42.	14.	7.82
	DIVERSION TO							
+		D40oS	302.	13.00	77.	19.	6.	7.82
	HYDROGRAPH AT							
+		D40oW	271.	13.00	90.	23.	8.	7.82
	ROUTED TO							
+		R40oW	267.	13.33	90.	23.	8.	7.82
	HYDROGRAPH AT							
+		44o	121.	12.33	25.	8.	3.	.23
	HYDROGRAPH AT							
+		BD44mP	124.	12.00	86.	33.	11.	6.98
	ROUTED TO							
+		P44mS	124.	12.08	86.	33.	11.	6.98
	HYDROGRAPH AT							
+		BD44mS	233.	12.92	56.	14.	5.	6.98
	ROUTED TO							

+	R44mS	230.	13.00	56.	14.	5.	6.98
2 COMBINED AT	C44mS	354.	13.00	142.	47.	16.	6.98
3 COMBINED AT +	C44o	649.	13.08	254.	76.	26.	9.68
DIVERSION TO +	D44oP	124.	12.00	96.	37.	12.	9.68
HYDROGRAPH AT +	D44o	525.	13.08	158.	40.	13.	9.68
DIVERSION TO +	D44oS	371.	13.08	104.	26.	9.	9.68
HYDROGRAPH AT +	D44oW	154.	13.08	54.	13.	4.	9.68
ROUTED TO +	R44oW	150.	13.67	54.	13.	4.	9.68
2 COMBINED AT +	C44mW	414.	13.33	129.	32.	11.	9.68
HYDROGRAPH AT +	48m	295.	12.33	65.	20.	7.	.48
HYDROGRAPH AT +	BD48kS	267.	12.83	71.	20.	7.	4.96
ROUTED TO +	R48kS	257.	13.08	71.	20.	7.	4.96
3 COMBINED AT +	C48m	766.	13.08	258.	70.	24.	11.19
HYDROGRAPH AT +	BD52kP	201.	12.17	129.	42.	14.	5.83
ROUTED TO	P52kS	201.	12.33	129.	42.	14.	5.83
HYDROGRAPH AT +	BD52kS	175.	12.92	39.	10.	3.	5.83
ROUTED TO +	R52kS	172.	13.00	39.	10.	3.	5.83
2 COMBINED AT +	C52kS	373.	13.00	168.	52.	17.	5.83
HYDROGRAPH AT +	52m	161.	12.25	24.	7.	2.	.18
2 COMBINED AT +	C52m	419.	12.75	191.	59.	20.	6.01
2 COMBINED AT +	CC52m	1156.	13.08	442.	127.	43.	12.24
DIVERSION TO +	D52mP	364.	12.17	240.	77.	26.	12.24
HYDROGRAPH AT +	D52m	792.	13.08	203.	51.	17.	12.24
DIVERSION TO +	D52mS	713.	13.08	182.	46.	15.	12.24
HYDROGRAPH AT +	D52mW	79.	13.08	20.	5.	2.	12.24
ROUTED TO +	R52mW	78.	13.17	20.	5.	2.	12.24
HYDROGRAPH AT +	54m	256.	12.25	43.	13.	4.	.27
HYDROGRAPH AT	BD54kP	124.	12.17	66.	22.	7.	1.18
ROUTED TO +	P54kS	124.	12.33	66.	22.	7.	1.18

+	HYDROGRAPH AT BD54kS	146.	12.92	27.	7.	2.	1.18
+	ROUTED TO R54kS	142.	13.17	27.	7.	2.	1.18
+	2 COMBINED AT C54kS	266.	13.17	94.	29.	10.	1.18
+	3 COMBINED AT C54m	416.	12.92	157.	47.	16.	1.66
+	DIVERSION TO D54mP	124.	12.00	77.	27.	9.	1.66
+	HYDROGRAPH AT D54m	292.	12.92	80.	20.	7.	1.66
+	DIVERSION TO D54mS	117.	12.92	32.	8.	3.	1.66
+	HYDROGRAPH AT D54mW	175.	12.92	48.	12.	4.	1.66
+	ROUTED TO R54mW	172.	13.08	48.	12.	4.	1.66
+	HYDROGRAPH AT 56m	274.	12.50	80.	24.	8.	.58
+	HYDROGRAPH AT BD56kP	303.	12.08	159.	54.	18.	4.46
+	ROUTED TO P56kS	303.	12.25	159.	54.	18.	4.46
+	HYDROGRAPH AT BD56kS	103.	12.67	20.	5.	2.	4.46
+	ROUTED TO R56kS	84.	13.08	20.	5.	2.	4.46
+	2 COMBINED AT C56kS	387.	13.08	178.	59.	20.	4.46
+	3 COMBINED AT C56m	764.	12.92	302.	94.	31.	5.50
+	DIVERSION TO D56mP	433.	12.25	229.	76.	25.	5.50
+	HYDROGRAPH AT D56m	331.	12.92	72.	18.	6.	5.50
+	DIVERSION TO D56mS	129.	12.92	28.	7.	2.	5.50
+	HYDROGRAPH AT D56mW	202.	12.92	44.	11.	4.	5.50
+	ROUTED TO R56mW	196.	13.17	44.	11.	4.	5.50
+	HYDROGRAPH AT 60m	248.	12.50	64.	18.	6.	.50
+	HYDROGRAPH AT BD601P	93.	11.75	75.	34.	11.	4.69
+	ROUTED TO P601S	93.	11.92	75.	34.	11.	4.69
+	HYDROGRAPH AT BD601S	335.	12.83	96.	24.	8.	4.69
+	ROUTED TO R601S	329.	13.17	96.	24.	8.	4.69
+	2 COMBINED AT C601S	422.	13.17	171.	58.	19.	4.69
+	3 COMBINED AT C60m	775.	13.00	275.	86.	29.	6.24
+	DIVERSION TO D60mP	124.	11.92	99.	42.	14.	6.24

+	HYDROGRAPH AT	D60m	651.	13.00	176.	44.	15.	6.24
+	DIVERSION TO	D60mS	338.	13.00	92.	23.	8.	6.24
+	HYDROGRAPH AT	D60mW	312.	13.00	85.	21.	7.	6.24
+	ROUTED TO	R60mW	304.	13.33	85.	21.	7.	6.24
+	HYDROGRAPH AT	64m	391.	12.42	113.	35.	12.	.50
+	HYDROGRAPH AT	BD641P	265.	14.75	160.	53.	18.	6.96
+	ROUTED TO	P641S	265.	14.83	160.	53.	18.	6.96
+	HYDROGRAPH AT	BD641S	3.	14.42	0.	0.	0.	6.96
+	ROUTED TO	R641S	2.	15.08	0.	0.	0.	6.96
+	2 COMBINED AT	C641S	266.	14.92	160.	53.	18.	6.96
+	HYDROGRAPH AT	68m	444.	12.42	131.	42.	14.	.55
+	DIVERSION TO	D68m	410.	12.42	99.	25.	8.	.55
+	HYDROGRAPH AT	D68mP2	34.	11.17	32.	17.	6.	.55
+	4 COMBINED AT	C64m	771.	13.08	380.	125.	42.	9.55
+	DIVERSION TO	D64mP	399.	12.17	284.	101.	34.	9.55
+	HYDROGRAPH AT	D64m	372.	13.08	96.	24.	8.	9.55
+	DIVERSION TO	D64mS	230.	13.08	60.	15.	5.	9.55
+	HYDROGRAPH AT	D64mW	142.	13.08	37.	9.	3.	9.55
+	ROUTED TO	R64mW	138.	13.42	37.	9.	3.	9.55
+	HYDROGRAPH AT	BD68m	410.	12.42	99.	25.	8.	.55
+	3 COMBINED AT	C68m	804.	12.92	401.	116.	39.	16.15
+	DIVERSION TO	D68mP	144.	11.92	124.	47.	16.	16.15
+	HYDROGRAPH AT	D68m2	660.	12.92	276.	69.	23.	16.15
+	DIVERSION TO	D68mS	548.	12.92	229.	57.	19.	16.15
+	HYDROGRAPH AT	D68mW	112.	12.92	47.	12.	4.	16.15
+	ROUTED TO	R68mW	109.	13.33	47.	12.	4.	16.15
+	2 COMBINED AT	CC72m	1190.	13.50	705.	244.	82.	17.12
+	DIVERSION TO	D72mP	308.	11.75	298.	142.	48.	17.12
	HYDROGRAPH AT							

+		D72m	882.	13.50	407.	102.	34.	17.12
+	ROUTED TO	R72mS	874.	13.92	406.	102.	34.	17.12
+	HYDROGRAPH AT	BD72mP	308.	11.75	298.	142.	48.	17.12
+	ROUTED TO	P72mS	308.	11.92	298.	143.	48.	17.12
+	2 COMBINED AT	C72mS	1182.	13.92	702.	244.	82.	17.12
+	HYDROGRAPH AT	BD24oS	100.	12.67	23.	6.	2.	1.20
+	ROUTED TO	R24oS	98.	12.83	23.	6.	2.	1.20
+	HYDROGRAPH AT	BD28oP	367.	12.33	169.	55.	18.	2.73
+	ROUTED TO	P28oS	367.	12.42	169.	55.	18.	2.73
+	HYDROGRAPH AT	BD28oS	87.	13.00	14.	4.	1.	2.73
+	ROUTED TO	R28oS	84.	13.08	14.	4.	1.	2.73
+	2 COMBINED AT	C28oS	451.	13.08	183.	58.	20.	2.73
+	2 COMBINED AT	C28p	543.	13.00	205.	64.	21.	2.73
+	HYDROGRAPH AT	28p	238.	12.33	50.	15.	5.	.37
+	ROUTED TO	S28p	237.	12.33	50.	15.	5.	.37
+	2 COMBINED AT	CC28p	686.	12.75	253.	78.	26.	3.11
+	DIVERSION TO	D28pP	279.	12.17	157.	54.	18.	3.11
+	HYDROGRAPH AT	D28p	407.	12.75	96.	24.	8.	3.11
+	ROUTED TO	R28pW	404.	12.83	96.	24.	8.	3.11
+	HYDROGRAPH AT	32p	125.	12.42	28.	7.	2.	.23
+	HYDROGRAPH AT	BD32oS	128.	13.00	27.	7.	2.	4.25
+	ROUTED TO	R32oS	127.	13.08	27.	7.	2.	4.25
+	2 COMBINED AT	C32p	208.	12.92	54.	14.	5.	4.49
+	ROUTED TO	S32p	93.	13.75	46.	12.	4.	4.49
+	HYDROGRAPH AT	BD32oP	160.	12.08	96.	34.	12.	4.25
+	ROUTED TO	P32oS	160.	12.17	96.	34.	12.	4.25
+	3 COMBINED AT	CC32p	625.	13.00	234.	70.	23.	4.86
+	DIVERSION TO	D32pS	92.	13.00	32.	9.	3.	4.86
+	HYDROGRAPH AT	D32pW	534.	13.00	202.	61.	20.	4.86

+	DIVERSION TO	D32pP	379.	12.50	177.	55.	18.	4.86
	HYDROGRAPH AT	D32p	155.	13.00	25.	6.	2.	4.86
+	ROUTED TO	R32pW	150.	13.25	25.	6.	2.	4.86
+	HYDROGRAPH AT	BD32pP	379.	12.50	177.	55.	18.	4.86
+	ROUTED TO	P32pW	379.	12.58	177.	55.	18.	4.86
+	2 COMBINED AT	C32pW	529.	13.25	202.	61.	20.	4.86
+	HYDROGRAPH AT	28q	316.	12.25	58.	18.	6.	.32
+	ROUTED TO	S28q	315.	12.25	58.	18.	6.	.32
+	HYDROGRAPH AT	BD28pP	279.	12.17	157.	54.	18.	3.11
+	DIVERSION TO	D28pP2	68.	12.17	38.	13.	4.	3.11
+	HYDROGRAPH AT	D28pP1	211.	12.17	119.	41.	14.	3.11
+	ROUTED TO	P28pS	211.	12.25	119.	41.	14.	3.11
+	2 COMBINED AT	C28q	523.	12.25	177.	60.	20.	.82
+	DIVERSION TO	D28qP	340.	12.08	162.	56.	19.	.82
	HYDROGRAPH AT	D28q	183.	12.25	14.	4.	1.	.82
+	DIVERSION TO	D28qS	128.	12.25	9.	2.	1.	.82
+	HYDROGRAPH AT	D28qW	55.	12.25	5.	1.	0.	.82
+	ROUTED TO	R28qW	30.	13.25	5.	1.	0.	.82
+	HYDROGRAPH AT	32q	114.	12.33	23.	6.	2.	.17
+	HYDROGRAPH AT	BD32pS	92.	13.00	32.	9.	3.	4.86
+	3 COMBINED AT	C32q	181.	12.58	60.	17.	6.	.99
+	ROUTED TO	S32q	75.	14.08	54.	15.	5.	.99
+	DIVERSION TO	D32q	43.	14.08	24.	6.	2.	.99
+	HYDROGRAPH AT	D32qP	32.	12.50	30.	9.	3.	.99
+	ROUTED TO	P32qW	32.	12.58	30.	9.	3.	.99
+	2 COMBINED AT	C32pqW	561.	13.25	229.	70.	23.	4.86
+	HYDROGRAPH AT	36p	143.	12.33	27.	8.	3.	.19
	HYDROGRAPH AT	BD36oS	196.	13.00	52.	13.	4.	6.12
+	ROUTED TO	R36oS	195.	13.17	52.	13.	4.	6.12

	3 COMBINED AT						
+		C36p	793.	13.08	305.	90.	30.	6.91
	DIVERSION TO						
+		DB36p	180.	13.08	24.	6.	2.	6.91
	HYDROGRAPH AT						
+		E36p	613.	12.50	280.	84.	28.	6.91
	HYDROGRAPH AT						
+		BDB36p	180.	13.08	24.	6.	2.	6.91
	ROUTED TO						
+		S36p	72.	13.58	14.	4.	1.	6.91
	HYDROGRAPH AT						
+		BD36oP	139.	12.00	97.	37.	12.	6.12
	ROUTED TO						
+		P36oS	139.	12.08	97.	37.	12.	6.12
	3 COMBINED AT						
+		CC36p	824.	13.58	389.	124.	41.	6.91
	DIVERSION TO						
+		D36pP	613.	12.42	343.	112.	38.	6.91
	HYDROGRAPH AT						
+		D36p	211.	13.58	46.	11.	4.	6.91
	ROUTED TO						
+		R36pW	207.	13.83	46.	11.	4.	6.91
	HYDROGRAPH AT						
+		BD36pP	613.	12.42	343.	112.	38.	6.91
	DIVERSION TO						
+		D36pP2	139.	12.42	78.	25.	9.	6.91
	HYDROGRAPH AT						
+		D36pP1	474.	12.42	265.	87.	29.	6.91
	ROUTED TO						
+		P36pW	474.	12.50	265.	87.	29.	6.91
	2 COMBINED AT						
+		C36pW	681.	13.83	311.	98.	33.	6.91
	HYDROGRAPH AT						
+		40p	190.	12.33	35.	10.	3.	.22
	HYDROGRAPH AT						
+		BD40oP	70.	11.83	58.	26.	9.	7.82
	ROUTED TO						
+		P40oS	70.	11.92	58.	26.	9.	7.82
	HYDROGRAPH AT						
+		BD40oS	302.	13.00	77.	19.	6.	7.82
	ROUTED TO						
+		R40oS	301.	13.17	77.	19.	6.	7.82
	2 COMBINED AT						
+		C40oS	371.	13.17	136.	45.	15.	7.82
	3 COMBINED AT						
+		C40p	1047.	13.00	477.	152.	51.	8.83
	DIVERSION TO						
+		D40pP	785.	12.42	423.	139.	47.	8.83
	HYDROGRAPH AT						
+		D40p	262.	13.00	54.	14.	5.	8.83
	ROUTED TO						
+		R40pW	257.	13.25	54.	14.	5.	8.83
	HYDROGRAPH AT						
+		BD40pP	785.	12.42	423.	139.	47.	8.83
	ROUTED TO						
+		P40pW	785.	12.50	423.	139.	47.	8.83
	2 COMBINED AT						

+	C40pW	1042.	13.25	477.	152.	51.	8.83
HYDROGRAPH AT	44p	292.	12.42	73.	21.	7.	.41
HYDROGRAPH AT +	BD44oP	124.	12.00	96.	37.	12.	9.68
ROUTED TO +	P44oS	124.	12.17	96.	37.	12.	9.68
HYDROGRAPH AT +	BD44oS	371.	13.08	104.	26.	9.	9.68
ROUTED TO +	R44oS	362.	13.33	104.	26.	9.	9.68
2 COMBINED AT +	C44oS	486.	13.33	201.	63.	21.	9.68
3 COMBINED AT +	C44p	1655.	13.17	741.	234.	78.	11.10
DIVERSION TO +	D44pP	1344.	12.92	696.	223.	75.	11.10
HYDROGRAPH AT +	D44p	311.	13.17	45.	11.	4.	11.10
ROUTED TO +	R44pW	296.	13.42	45.	11.	4.	11.10
HYDROGRAPH AT +	BD44pP	1344.	12.92	696.	223.	75.	11.10
DIVERSION TO +	D44pP2	124.	12.92	64.	21.	7.	11.10
HYDROGRAPH AT +	D44pP1	1220.	12.92	632.	202.	68.	11.10
ROUTED TO	P44pW	1220.	13.00	632.	202.	68.	11.10
2 COMBINED AT +	C44pW	1516.	13.42	677.	213.	71.	11.10
HYDROGRAPH AT +	48o	511.	12.42	111.	32.	11.	.68
HYDROGRAPH AT +	BD52mS	713.	13.08	182.	46.	15.	12.24
ROUTED TO +	R52mS	689.	13.33	182.	46.	15.	12.24
HYDROGRAPH AT +	BD52mP	364.	12.17	240.	77.	26.	12.24
ROUTED TO +	P52mS	364.	14.83	240.	77.	26.	12.24
2 COMBINED AT +	C52mS	1053.	13.33	422.	122.	41.	12.24
3 COMBINED AT +	C48o	2681.	13.33	1184.	361.	121.	14.34
DIVERSION TO +	DB48o	125.	13.33	8.	2.	1.	14.34
HYDROGRAPH AT +	E48o	2557.	13.42	1177.	359.	120.	14.34
HYDROGRAPH AT +	BDB48o	125.	13.33	8.	2.	1.	14.34
ROUTED TO +	S48o	23.	13.67	6.	1.	0.	14.34
2 COMBINED AT	CC48o	2571.	13.42	1182.	360.	121.	14.34
DIVERSION TO +	D48oPT	2557.	13.42	1181.	360.	120.	14.34

+	HYDROGRAPH AT	D48o	23.	13.67	1.	0.	0.	14.34
+	ROUTED TO	R48oW	11.	13.92	1.	0.	0.	14.34
+	HYDROGRAPH AT	52o	422.	12.42	108.	32.	11.	.64
+	HYDROGRAPH AT	BD54mP	124.	12.00	77.	27.	9.	1.66
+	ROUTED TO	P54mS	124.	12.25	77.	27.	9.	1.66
+	HYDROGRAPH AT	BD54mS	117.	12.92	32.	8.	3.	1.66
+	ROUTED TO	R54mS	113.	13.42	32.	8.	3.	1.66
+	2 COMBINED AT	C54mS	237.	13.42	109.	35.	12.	1.66
+	3 COMBINED AT	C52o	548.	12.75	217.	67.	23.	2.30
+	DIVERSION TO	D52oP	517.	12.42	215.	67.	22.	2.30
+	HYDROGRAPH AT	D52o	31.	12.75	2.	1.	0.	2.30
+	ROUTED TO	R52oW	20.	13.17	2.	1.	0.	2.30
+	HYDROGRAPH AT	BD52oP	517.	12.42	215.	67.	22.	2.30
+	ROUTED TO	P52oW	517.	12.50	215.	67.	22.	2.30
+	2 COMBINED AT	C52oW	528.	12.92	217.	67.	23.	2.30
+	HYDROGRAPH AT	56o	358.	12.50	98.	29.	10.	.64
+	HYDROGRAPH AT	BD56mP	433.	12.25	229.	76.	25.	5.50
+	ROUTED TO	P56mS	433.	12.42	229.	76.	25.	5.50
+	HYDROGRAPH AT	BD56mS	129.	12.92	28.	7.	2.	5.50
+	ROUTED TO	R56mS	118.	13.58	28.	7.	2.	5.50
+	2 COMBINED AT	C56mS	551.	13.58	257.	83.	28.	5.50
+	3 COMBINED AT	C56o	1298.	12.50	565.	177.	59.	6.79
+	DIVERSION TO	D56oP	950.	12.25	491.	159.	53.	6.79
+	HYDROGRAPH AT	D56o	348.	12.50	74.	19.	6.	6.79
+	ROUTED TO	R56oW	332.	12.75	74.	19.	6.	6.79
+	HYDROGRAPH AT	BD56oP	950.	12.25	491.	159.	53.	6.79
+	ROUTED TO	P56oW	950.	12.33	491.	159.	53.	6.79
+	2 COMBINED AT	C56oW	1282.	12.75	565.	177.	59.	6.79
+	HYDROGRAPH AT	60o	301.	12.50	90.	29.	10.	.64

+	HYDROGRAPH AT	BD60mP	124.	11.92	99.	42.	14.	6.24
+	ROUTED TO	P60mS	124.	12.08	99.	42.	14.	6.24
+	HYDROGRAPH AT	BD60mS	338.	13.00	92.	23.	8.	6.24
+	ROUTED TO	R60mS	323.	13.50	92.	23.	8.	6.24
+	2 COMBINED AT	C60mS	447.	13.50	190.	65.	22.	6.24
+	3 COMBINED AT	C60o	1807.	13.25	840.	269.	90.	8.16
+	DIVERSION TO	D60oPT	1761.	13.08	837.	268.	90.	8.16
+	HYDROGRAPH AT	D60o	46.	13.25	3.	1.	0.	8.16
+	ROUTED TO	R60oW	26.	13.67	3.	1.	0.	8.16
+	HYDROGRAPH AT	64o	339.	12.58	110.	36.	12.	.65
+	ROUTED TO	S64o	339.	12.58	110.	36.	12.	.65
+	HYDROGRAPH AT	BD64mP	399.	12.17	284.	101.	34.	9.55
+	ROUTED TO	P64mS	399.	12.33	284.	101.	34.	9.55
+	HYDROGRAPH AT	BD64mS	230.	13.08	60.	15.	5.	9.55
+	ROUTED TO	R64mS	220.	13.67	59.	15.	5.	9.55
+	2 COMBINED AT	C64mS	619.	13.67	343.	115.	39.	9.55
+	3 COMBINED AT	C64o	799.	13.50	444.	149.	50.	12.13
+	DIVERSION TO	D64oPT	799.	13.50	444.	149.	50.	12.13
+	HYDROGRAPH AT	D64o	0.	.00	0.	0.	0.	12.13
+	ROUTED TO	R64oW	0.	.00	0.	0.	0.	12.13
+	HYDROGRAPH AT	68o	457.	12.50	124.	36.	12.	.69
+	ROUTED TO	S68o	413.	12.83	110.	30.	10.	.69
+	HYDROGRAPH AT	BD68mP	144.	11.92	124.	47.	16.	16.15
+	ROUTED TO	P68mS	144.	12.17	124.	47.	16.	16.15
+	HYDROGRAPH AT	BD68mS	548.	12.92	229.	57.	19.	16.15
+	ROUTED TO	R68mS	529.	13.50	229.	57.	19.	16.15
+	2 COMBINED AT	C68mS	673.	13.50	352.	104.	35.	16.15
+	3 COMBINED AT	C68o	941.	13.25	453.	132.	44.	16.84
	DIVERSION TO							

+	D68oPT	926.	13.25	452.	131.	44.	16.84
+ HYDROGRAPH AT	D68o	16.	13.25	1.	0.	0.	16.84
+ ROUTED TO	R68oW	7.	13.83	1.	0.	0.	16.84
+ HYDROGRAPH AT	72o	494.	12.50	121.	33.	11.	.66
+ 3 COMBINED AT	C72o	1306.	13.75	813.	274.	92.	17.78
+ DIVERSION TO	D72oP	433.	12.00	409.	173.	59.	17.78
+ HYDROGRAPH AT	D72o	873.	13.75	404.	101.	34.	17.78
+ ROUTED TO	S72o	873.	13.75	404.	101.	34.	17.78
+ DIVERSION TO	D72o1	254.	13.75	67.	17.	6.	17.78
+ HYDROGRAPH AT	D72oPT	619.	13.75	337.	84.	28.	17.78
+ ROUTED TO	PT72oE	618.	13.75	337.	84.	28.	17.78
+ HYDROGRAPH AT	B68oPT	926.	13.25	452.	131.	44.	16.84
+ 2 COMBINED AT	CPT68o	1520.	13.33	784.	214.	72.	18.47
+ ROUTED TO	PT68oE	1520.	13.33	784.	214.	72.	18.47
+ HYDROGRAPH AT	BD72o1	254.	13.75	67.	17.	6.	17.78
+ DIVERSION TO	D72oW	0.	.00	0.	0.	0.	17.78
+ HYDROGRAPH AT	D72oE	254.	13.75	67.	17.	6.	17.78
+ ROUTED TO	S-I10	82.	14.75	56.	17.	6.	17.78
+ HYDROGRAPH AT	B64oPT	799.	13.50	444.	149.	50.	12.13
+ HYDROGRAPH AT	B60oPT	1761.	13.08	837.	268.	90.	8.16
+ ROUTED TO	PT60oW	1761.	13.17	837.	268.	90.	8.16
+ 4 COMBINED AT	C-WT	4036.	13.33	2046.	629.	211.	21.04
+ ROUTED TO	PT64o	4032.	13.33	2046.	629.	211.	21.04
+ DIVERSION TO	DPT64o	4032.	13.33	2046.	629.	211.	21.04
+ HYDROGRAPH AT	DN_64o	0.	.00	0.	0.	0.	21.04
+ HYDROGRAPH AT	36q	269.	12.33	57.	16.	5.	.27
+ HYDROGRAPH AT	BD32q	43.	14.08	24.	6.	2.	.99
+ ROUTED TO	R32qS	43.	14.33	24.	6.	2.	.99
+ HYDROGRAPH AT	B36pP2	139.	12.42	78.	25.	9.	6.91

+	ROUTED TO	P36pS	139.	12.58	78.	25.	9.	6.91
	3 COMBINED AT	C36q	381.	12.42	157.	48.	16.	1.56
+	DIVERSION TO	D36qP	295.	12.17	151.	46.	15.	1.56
+	HYDROGRAPH AT	D36q	86.	12.42	6.	2.	1.	1.56
+	DIVERSION TO	D36qS	37.	12.42	3.	1.	0.	1.56
+	HYDROGRAPH AT	D36qW	49.	12.42	4.	1.	0.	1.56
+	ROUTED TO	R36qW	35.	12.83	4.	1.	0.	1.56
+	HYDROGRAPH AT	40q	336.	12.33	75.	22.	7.	.35
+	2 COMBINED AT	C40q	331.	12.33	77.	22.	7.	1.91
+	DIVERSION TO	D40qP	32.	11.67	22.	8.	3.	1.91
+	HYDROGRAPH AT	D40q	299.	12.33	55.	14.	5.	1.91
+	DIVERSION TO	D40qS	182.	12.33	34.	8.	3.	1.91
+	HYDROGRAPH AT	D40qW	117.	12.33	22.	5.	2.	1.91
+	ROUTED TO	R40qW	111.	12.67	22.	5.	2.	1.91
	HYDROGRAPH AT	BD40qP	32.	11.67	22.	8.	3.	1.91
+	ROUTED TO	P40qW	32.	11.83	22.	8.	3.	1.91
+	2 COMBINED AT	C40qW	143.	12.67	43.	14.	5.	1.91
+	HYDROGRAPH AT	44q	336.	12.33	84.	26.	9.	.36
+	HYDROGRAPH AT	B44pP2	124.	12.92	64.	21.	7.	11.10
+	ROUTED TO	P44pS	124.	13.00	64.	21.	7.	11.10
+	3 COMBINED AT	C44q	549.	12.58	190.	60.	20.	2.57
+	DIVERSION TO	D44qP	201.	12.00	126.	44.	15.	2.57
+	HYDROGRAPH AT	D44q	348.	12.58	64.	16.	5.	2.57
+	DIVERSION TO	D44qS	216.	12.58	40.	10.	3.	2.57
+	HYDROGRAPH AT	D44qW	132.	12.58	24.	6.	2.	2.57
+	ROUTED TO	R44qW	125.	12.75	24.	6.	2.	2.57
+	HYDROGRAPH AT	48q	246.	12.42	64.	18.	6.	.30
	2 COMBINED AT	C48q	336.	12.67	86.	24.	8.	2.87
+	DIVERSION TO	D48qPT	336.	12.67	86.	24.	8.	2.87

+	HYDROGRAPH AT	DB48q	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	S48q	0.	.00	0.	0.	0.	2.87
+	DIVERSION TO	D48qS	0.	.00	0.	0.	0.	2.87
+	HYDROGRAPH AT	D48qW	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	R48qW	0.	.00	0.	0.	0.	2.87
+	HYDROGRAPH AT	52q	301.	12.42	83.	25.	8.	.39
+	2 COMBINED AT	C52q	301.	12.42	83.	25.	8.	.39
+	DIVERSION TO	D52qP	191.	12.17	71.	22.	7.	.39
+	HYDROGRAPH AT	D52q	110.	12.42	11.	3.	1.	.39
+	DIVERSION TO	D52qS	56.	12.42	6.	1.	0.	.39
+	HYDROGRAPH AT	D52qW	54.	12.42	6.	1.	0.	.39
+	ROUTED TO	R52qW	45.	13.00	6.	1.	0.	.39
+	HYDROGRAPH AT	56q	251.	12.42	58.	17.	6.	.35
+	2 COMBINED AT	C56q	249.	12.42	63.	18.	6.	.75
+	DIVERSION TO	D56qP	68.	12.00	32.	10.	3.	.75
+	HYDROGRAPH AT	D56q	181.	12.42	31.	8.	3.	.75
+	DIVERSION TO	D56qS	60.	12.42	10.	3.	1.	.75
+	HYDROGRAPH AT	D56qW	121.	12.42	20.	5.	2.	.75
+	ROUTED TO	R56qW	111.	12.83	20.	5.	2.	.75
+	HYDROGRAPH AT	60q	265.	12.33	54.	16.	5.	.35
+	2 COMBINED AT	C60q	297.	12.75	74.	21.	7.	1.10
+	DIVERSION TO	D60qP	281.	12.67	73.	21.	7.	1.10
+	HYDROGRAPH AT	D60q	16.	12.75	1.	0.	0.	1.10
+	DIVERSION TO	D60qS	5.	12.75	0.	0.	0.	1.10
+	HYDROGRAPH AT	D60qW	12.	12.75	1.	0.	0.	1.10
+	ROUTED TO	R60qW	5.	13.25	1.	0.	0.	1.10
+	HYDROGRAPH AT	64q	375.	12.42	83.	26.	9.	.41
+	3 COMBINED AT	C64q	370.	12.42	82.	25.	9.	1.51
	DIVERSION TO							

+		D64qPT	0.	.00	0.	0.	0.	1.51
	HYDROGRAPH AT	D64q	370.	12.42	82.	25.	9.	1.51
+	DIVERSION TO	D64qP	68.	11.92	37.	14.	5.	1.51
+	HYDROGRAPH AT	D64q1	302.	12.42	45.	11.	4.	1.51
+	DIVERSION TO	D64qS	100.	12.42	15.	4.	1.	1.51
+	HYDROGRAPH AT	D64qW	202.	12.42	30.	7.	2.	1.51
+	ROUTED TO	R64qW	184.	12.67	30.	7.	2.	1.51
+	HYDROGRAPH AT	BD64qP	68.	11.92	37.	14.	5.	1.51
+	ROUTED TO	P64qW	68.	12.00	37.	14.	5.	1.51
+	2 COMBINED AT	C64qW	252.	12.67	67.	22.	7.	1.51
+	HYDROGRAPH AT	68q	268.	12.33	55.	17.	6.	.29
+	2 COMBINED AT	C68q	463.	12.58	121.	38.	13.	1.80
+	DIVERSION TO	D68qP	68.	11.83	47.	20.	7.	1.80
+	HYDROGRAPH AT	D68q	395.	12.58	75.	19.	6.	1.80
	DIVERSION TO	D68qS	130.	12.58	25.	6.	2.	1.80
+	HYDROGRAPH AT	D68qW	265.	12.58	50.	12.	4.	1.80
+	ROUTED TO	R68qW	250.	12.83	50.	12.	4.	1.80
+	HYDROGRAPH AT	BD68qP	68.	11.83	47.	20.	7.	1.80
+	ROUTED TO	P68qW	68.	12.00	47.	20.	7.	1.80
+	2 COMBINED AT	C68qW	318.	12.83	97.	32.	11.	1.80
+	HYDROGRAPH AT	72q	300.	12.42	68.	20.	7.	.33
+	HYDROGRAPH AT	B72oP	433.	12.00	409.	173.	59.	17.78
+	ROUTED TO	P72oS	433.	12.08	409.	173.	59.	17.78
+	3 COMBINED AT	C72q	981.	12.67	571.	228.	77.	3.13
+	DIVERSION TO	D72qP	662.	12.08	522.	216.	73.	3.13
+	HYDROGRAPH AT	D72q	319.	12.67	49.	12.	4.	3.13
+	DIVERSION TO	D72qS	105.	12.67	16.	4.	1.	3.13
	HYDROGRAPH AT	D72qW	214.	12.67	33.	8.	3.	3.13
+	ROUTED TO	R72qW	200.	13.00	33.	8.	3.	3.13

+	HYDROGRAPH AT	80o	626.	12.25	116.	34.	11.	.54
+	HYDROGRAPH AT	BD84mP	249.	12.17	81.	29.	10.	.29
+	ROUTED TO	P84mS	249.	12.25	81.	29.	10.	.29
+	HYDROGRAPH AT	BD84mS	333.	13.42	158.	42.	14.	5.49
+	ROUTED TO	R84mS	330.	13.67	157.	42.	14.	5.49
+	2 COMBINED AT	C84mS	435.	13.17	230.	70.	23.	5.49
+	HYDROGRAPH AT	BD80mS	676.	13.50	299.	80.	27.	6.03
+	ROUTED TO	R80mS	674.	13.58	299.	80.	27.	6.03
+	3 COMBINED AT	C80o	1214.	13.08	636.	183.	61.	6.58
+	DIVERSION TO	DB80o	965.	13.08	410.	102.	34.	6.58
+	HYDROGRAPH AT	E80o	249.	11.83	226.	80.	27.	6.58
+	HYDROGRAPH AT	BDB80o	965.	13.08	410.	102.	34.	6.58
+	ROUTED TO	S80o	964.	13.17	392.	102.	34.	6.58
+	2 COMBINED AT	CC80o	1213.	13.17	616.	183.	61.	6.58
+	DIVERSION TO	D80oP	249.	11.83	235.	87.	30.	6.58
+	HYDROGRAPH AT	D80o	964.	13.17	381.	95.	32.	6.58
+	ROUTED TO	R80oS	960.	13.33	381.	95.	32.	6.58
+	HYDROGRAPH AT	76o	529.	12.42	138.	40.	13.	.67
+	HYDROGRAPH AT	BD76m	1033.	13.42	430.	108.	36.	6.71
+	ROUTED TO	R76mS	1025.	13.67	429.	108.	36.	6.71
+	HYDROGRAPH AT	B76mP2	32.	11.83	30.	11.	4.	6.71
+	ROUTED TO	P76mS	32.	12.08	30.	11.	4.	6.71
+	2 COMBINED AT	C76mS	1057.	13.67	459.	118.	40.	6.71
+	HYDROGRAPH AT	BD72oW	0.	.00	0.	0.	0.	17.78
+	ROUTED TO	R72oW	0.	.00	0.	0.	0.	17.78
+	4 COMBINED AT	C76o	2259.	13.17	968.	251.	84.	7.92
+	DIVERSION TO	D76o	2030.	13.17	770.	192.	64.	7.92
+	HYDROGRAPH AT	D76oP	229.	12.08	198.	59.	20.	7.92
+	ROUTED TO	P76oS	229.	12.25	198.	59.	20.	7.92

+	HYDROGRAPH AT	BD76o	2030.	13.17	770.	192.	64.	7.92
	DIVERSION TO	D76oW	203.	13.17	77.	19.	6.	7.92
+	HYDROGRAPH AT	D76oS	1827.	13.17	693.	173.	58.	7.92
+	ROUTED TO	R76oS	1818.	13.33	692.	173.	58.	7.92
+	2 COMBINED AT	C76oS	2047.	13.33	890.	232.	77.	7.92
+	HYDROGRAPH AT	76q	443.	12.33	93.	28.	9.	.40
+	3 COMBINED AT	C76q	2314.	13.17	994.	263.	88.	11.45
+	DIVERSION TO	D76qP	229.	11.92	209.	67.	22.	11.45
+	HYDROGRAPH AT	D76q	2085.	13.17	785.	196.	65.	11.45
+	DIVERSION TO	D76qS	1084.	13.17	408.	102.	34.	11.45
+	HYDROGRAPH AT	D76qW	1001.	13.17	377.	94.	31.	11.45
+	ROUTED TO	R76qW	991.	13.33	377.	94.	31.	11.45
+	HYDROGRAPH AT	80p	449.	12.25	92.	29.	10.	.40
	HYDROGRAPH AT	BD76oW	203.	13.17	77.	19.	6.	7.92
+	ROUTED TO	R76oW	202.	13.33	77.	19.	6.	7.92
+	2 COMBINED AT	C80p	449.	12.25	172.	50.	17.	8.32
+	ROUTED TO	S80p	438.	12.33	165.	45.	16.	8.32
+	HYDROGRAPH AT	BD80oP	249.	11.83	235.	87.	30.	6.58
+	ROUTED TO	P80oS	249.	12.08	235.	87.	30.	6.58
+	2 COMBINED AT	CC80p	687.	12.33	397.	132.	45.	8.32
+	DIVERSION TO	D80pP	249.	11.83	239.	93.	32.	8.32
+	HYDROGRAPH AT	D80p	438.	12.33	158.	39.	13.	8.32
+	ROUTED TO	R80pS	391.	12.92	157.	39.	13.	8.32
+	HYDROGRAPH AT	BD80pP	249.	11.83	239.	93.	32.	8.32
+	ROUTED TO	P80pS	249.	12.00	239.	93.	32.	8.32
+	2 COMBINED AT	C80pS	640.	12.92	396.	132.	45.	8.32
	HYDROGRAPH AT	80q	373.	12.50	109.	32.	11.	.50
+	3 COMBINED AT	C80q	1801.	13.25	867.	255.	86.	12.34
	HYDROGRAPH AT							

+		28s	200.	12.25	32.	10.	3.	.16
+	HYDROGRAPH AT	BD28qP	340.	12.08	162.	56.	19.	.82
+	DIVERSION TO	D28qP2	32.	12.08	15.	5.	2.	.82
+	HYDROGRAPH AT	D28qP1	308.	12.08	147.	51.	17.	.82
+	ROUTED TO	P28qS	308.	12.17	147.	51.	17.	.82
+	HYDROGRAPH AT	BD28qS	128.	12.25	9.	2.	1.	.82
+	ROUTED TO	R28qS	117.	12.33	9.	2.	1.	.82
+	2 COMBINED AT	C28qS	425.	12.33	156.	53.	18.	.82
+	2 COMBINED AT	C28s	603.	12.33	188.	63.	21.	.98
+	DIVERSION TO	D28sP	492.	12.17	182.	61.	21.	.98
+	HYDROGRAPH AT	D28s	111.	12.33	5.	1.	0.	.98
+	DIVERSION TO	D28sS	48.	12.33	2.	1.	0.	.98
+	HYDROGRAPH AT	D28sW	63.	12.33	3.	1.	0.	.98
+	ROUTED TO	R28sW	39.	12.67	3.	1.	0.	.98
+	HYDROGRAPH AT	32s	285.	12.33	73.	23.	8.	.34
+	2 COMBINED AT	C32s	297.	12.58	75.	23.	8.	1.32
+	ROUTED TO	S32s	279.	12.67	55.	15.	5.	1.32
+	DIVERSION TO	D32sP	48.	12.50	26.	8.	3.	1.32
+	HYDROGRAPH AT	D32s	231.	12.67	30.	7.	2.	1.32
+	ROUTED TO	R32sW	200.	13.00	30.	7.	2.	1.32
+	HYDROGRAPH AT	BD32sP	48.	12.50	26.	8.	3.	1.32
+	ROUTED TO	P32sW	48.	12.67	26.	8.	3.	1.32
+	2 COMBINED AT	C32sW	248.	13.00	55.	15.	5.	1.32
+	HYDROGRAPH AT	36s	255.	12.33	56.	16.	5.	.24
+	HYDROGRAPH AT	BD36qP	295.	12.17	151.	46.	15.	1.56
+	ROUTED TO	P36qS	295.	12.25	151.	46.	15.	1.56
+	HYDROGRAPH AT	BD36qS	37.	12.42	3.	1.	0.	1.56
+	ROUTED TO	R36qS	29.	12.75	3.	1.	0.	1.56
+	2 COMBINED AT	C36qS	324.	12.75	153.	47.	16.	1.56

+	3 COMBINED AT	C36s	670.	12.92	259.	78.	26.	2.30
	DIVERSION TO	D36sP	303.	12.08	189.	60.	20.	2.30
+	HYDROGRAPH AT	D36s	367.	12.92	70.	17.	6.	2.30
+	ROUTED TO	R36sW	338.	13.08	70.	17.	6.	2.30
+	HYDROGRAPH AT	40s	258.	12.33	60.	18.	6.	.24
+	HYDROGRAPH AT	BD40qS	182.	12.33	34.	8.	3.	1.91
+	ROUTED TO	R40qS	173.	12.58	34.	8.	3.	1.91
+	3 COMBINED AT	C40s	603.	12.58	161.	44.	15.	2.89
+	DIVERSION TO	D40sP	68.	11.92	41.	14.	5.	2.89
+	HYDROGRAPH AT	D40s	535.	12.58	120.	30.	10.	2.89
+	ROUTED TO	R40sW	519.	12.92	120.	30.	10.	2.89
+	HYDROGRAPH AT	BD40sP	68.	11.92	41.	14.	5.	2.89
+	ROUTED TO	P40sW	68.	12.08	41.	14.	5.	2.89
+	2 COMBINED AT	C40sW	587.	12.92	161.	44.	15.	2.89
	HYDROGRAPH AT	44s	232.	12.33	58.	18.	6.	.24
+	HYDROGRAPH AT	BD44qP	201.	12.00	126.	44.	15.	2.57
+	ROUTED TO	P44qS	201.	12.08	126.	44.	15.	2.57
+	HYDROGRAPH AT	BD44qS	216.	12.58	40.	10.	3.	2.57
+	ROUTED TO	R44qS	205.	12.75	40.	10.	3.	2.57
+	2 COMBINED AT	C44qS	406.	12.75	166.	54.	18.	2.57
+	3 COMBINED AT	C44s	1150.	12.75	381.	114.	38.	3.79
+	DIVERSION TO	D44sP	201.	11.83	147.	56.	19.	3.79
+	HYDROGRAPH AT	D44s	949.	12.75	234.	59.	20.	3.79
+	ROUTED TO	R44sW	943.	12.92	234.	59.	20.	3.79
+	HYDROGRAPH AT	48s	227.	12.33	51.	16.	5.	.21
+	HYDROGRAPH AT	BD48qS	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	R48qS	0.	.00	0.	0.	0.	2.87
	3 COMBINED AT	C48s	1058.	12.92	283.	74.	25.	4.31
+	DIVERSION TO	D48sPT	1048.	12.92	282.	74.	25.	4.31

+	HYDROGRAPH AT	DB48s	11.	12.92	1.	0.	0.	4.31
+	ROUTED TO	S48s	9.	13.00	1.	0.	0.	4.31
+	ROUTED TO	R48sW	5.	13.42	1.	0.	0.	4.31
+	HYDROGRAPH AT	52s	271.	12.33	64.	19.	6.	.26
+	HYDROGRAPH AT	BD52qP	191.	12.17	71.	22.	7.	.39
+	ROUTED TO	P52qS	191.	12.25	71.	22.	7.	.39
+	HYDROGRAPH AT	BD52qS	56.	12.42	6.	1.	0.	.39
+	ROUTED TO	R52qS	47.	12.92	6.	1.	0.	.39
+	2 COMBINED AT	C52qS	238.	12.92	77.	23.	8.	.39
+	3 COMBINED AT	C52s	459.	12.33	142.	43.	14.	.66
+	DIVERSION TO	D52sP	191.	12.00	94.	31.	10.	.66
+	HYDROGRAPH AT	D52s	268.	12.33	47.	12.	4.	.66
+	ROUTED TO	R52sW	259.	12.58	47.	12.	4.	.66
+	HYDROGRAPH AT	56s	272.	12.33	65.	19.	6.	.25
+	HYDROGRAPH AT	BD56qP	68.	12.00	32.	10.	3.	.75
+	ROUTED TO	P56qS	68.	12.08	32.	10.	3.	.75
+	HYDROGRAPH AT	BD56qS	60.	12.42	10.	3.	1.	.75
+	ROUTED TO	R56qS	55.	12.83	10.	3.	1.	.75
+	2 COMBINED AT	C56qS	123.	12.83	43.	13.	4.	.75
+	3 COMBINED AT	C56s	596.	12.58	153.	44.	15.	1.27
+	DIVERSION TO	D56sP	201.	12.08	92.	28.	9.	1.27
+	HYDROGRAPH AT	D56s	395.	12.58	61.	15.	5.	1.27
+	DIVERSION TO	D56sS	59.	12.58	9.	2.	1.	1.27
+	HYDROGRAPH AT	D56sW	336.	12.58	52.	13.	4.	1.27
+	ROUTED TO	R56sW	315.	12.83	52.	13.	4.	1.27
+	HYDROGRAPH AT	60s	301.	12.25	63.	20.	7.	.25
+	HYDROGRAPH AT	BD60qP	281.	12.67	73.	21.	7.	1.10
+	ROUTED TO	P60qS	281.	12.75	73.	21.	7.	1.10
	HYDROGRAPH AT							

+	BD60qS	5.	12.75	0.	0.	0.	1.10
ROUTED TO	R60qS	2.	13.17	0.	0.	0.	1.10
2 COMBINED AT +	C60qS	281.	12.75	73.	21.	7.	1.10
3 COMBINED AT +	C60s	754.	12.75	186.	53.	18.	1.87
DIVERSION TO +	D60sP	217.	12.00	97.	30.	10.	1.87
HYDROGRAPH AT +	D60s	537.	12.75	89.	22.	7.	1.87
DIVERSION TO +	D60sS	150.	12.75	25.	6.	2.	1.87
HYDROGRAPH AT +	D60sW	387.	12.75	64.	16.	5.	1.87
ROUTED TO +	R60sW	365.	13.00	64.	16.	5.	1.87
HYDROGRAPH AT +	BD60sP	217.	12.00	97.	30.	10.	1.87
ROUTED TO +	P60sW	217.	12.08	97.	30.	10.	1.87
2 COMBINED AT +	C60sW	582.	13.00	161.	47.	16.	1.87
HYDROGRAPH AT +	64s	301.	12.25	65.	21.	7.	.26
HYDROGRAPH AT +	BD64qS	100.	12.42	15.	4.	1.	1.51
ROUTED TO	R64qS	89.	12.67	15.	4.	1.	1.51
3 COMBINED AT +	C64s	795.	12.83	238.	71.	24.	2.54
DIVERSION TO +	D64sPT	0.	.00	0.	0.	0.	2.54
HYDROGRAPH AT +	D64s	795.	12.83	238.	71.	24.	2.54
DIVERSION TO +	D64sP	327.	12.00	152.	49.	16.	2.54
HYDROGRAPH AT +	D64s1	468.	12.83	86.	21.	7.	2.54
DIVERSION TO +	D64sS	197.	12.83	36.	9.	3.	2.54
HYDROGRAPH AT +	D64sW	271.	12.83	50.	12.	4.	2.54
ROUTED TO +	R64sW	266.	13.00	50.	12.	4.	2.54
HYDROGRAPH AT +	68s	239.	12.33	52.	17.	6.	.24
HYDROGRAPH AT +	BD68qS	130.	12.58	25.	6.	2.	1.80
ROUTED TO +	R68qS	122.	12.83	25.	6.	2.	1.80
3 COMBINED AT +	C68s	494.	12.83	124.	35.	12.	3.07
DIVERSION TO	D68sP	124.	12.08	57.	18.	6.	3.07
HYDROGRAPH AT +	D68s	370.	12.83	66.	17.	6.	3.07

+	DIVERSION TO HYDROGRAPH AT	D68sS	103.	12.83	19.	5.	2.	3.07
+	ROUTED TO HYDROGRAPH AT	D68sW	266.	12.83	48.	12.	4.	3.07
+		R68sW	256.	13.08	48.	12.	4.	3.07
+	HYDROGRAPH AT HYDROGRAPH AT	72s	306.	12.33	64.	19.	6.	.28
+		BD72qP	662.	12.08	522.	216.	73.	3.13
+	DIVERSION TO HYDROGRAPH AT	D72qP2	229.	12.08	181.	75.	25.	3.13
+		D72qP1	433.	12.08	341.	141.	48.	3.13
+	ROUTED TO HYDROGRAPH AT	P72qS1	433.	12.17	341.	141.	48.	3.13
+		B72qP2	229.	12.08	181.	75.	25.	3.13
+	ROUTED TO HYDROGRAPH AT	P72qS2	229.	12.17	181.	75.	25.	3.13
+		BD72qS	105.	12.67	16.	4.	1.	3.13
+	ROUTED TO 3 COMBINED AT	R72qS	100.	13.00	16.	4.	1.	3.13
+		C72qS	762.	13.00	538.	220.	74.	3.13
+	3 COMBINED AT DIVERSION TO	C72s	1148.	12.92	645.	250.	84.	4.68
+		D72sP	662.	12.00	538.	223.	75.	4.68
+	HYDROGRAPH AT DIVERSION TO	D72s	486.	12.92	106.	27.	9.	4.68
+		D72sS	194.	12.92	42.	11.	4.	4.68
+	HYDROGRAPH AT ROUTED TO	D72sW	291.	12.92	64.	16.	5.	4.68
+		R72sW	280.	13.25	64.	16.	5.	4.68
+	HYDROGRAPH AT ROUTED TO	76s	306.	12.33	67.	21.	7.	.28
+		S76s	306.	12.33	67.	21.	7.	.28
+	HYDROGRAPH AT ROUTED TO	BD76qP	229.	11.92	209.	67.	22.	11.45
+		P76qS	229.	12.00	209.	67.	22.	11.45
+	HYDROGRAPH AT ROUTED TO	BD76qS	1084.	13.17	408.	102.	34.	11.45
+		R76qS	1075.	13.33	408.	102.	34.	11.45
+	2 COMBINED AT 3 COMBINED AT	C76qS	1304.	13.33	617.	169.	56.	11.45
+		C76s	1647.	13.25	734.	202.	68.	13.28
+	DIVERSION TO HYDROGRAPH AT	D76sP	204.	11.83	193.	67.	23.	13.28
+		D76s	1443.	13.25	541.	135.	45.	13.28

	DIVERSION TO						
+		D76sS	317.	13.25	119.	30.	10.	13.28
	HYDROGRAPH AT						
+		D76sW	1125.	13.25	422.	105.	35.	13.28
	ROUTED TO						
+		R76sW	1116.	13.42	421.	105.	35.	13.28
	2 COMBINED AT						
+		CC80q	2864.	13.33	1279.	358.	121.	14.17
	DIVERSION TO						
+		D80qP	364.	12.00	347.	124.	43.	14.17
	HYDROGRAPH AT						
+		D80q	2500.	13.33	932.	233.	78.	14.17
	DIVERSION TO						
+		D80qW	2500.	13.33	932.	233.	78.	14.17
	HYDROGRAPH AT						
+		D80qS	0.	.00	0.	0.	0.	14.17
	ROUTED TO						
+		R80qS	0.	.00	0.	0.	0.	14.17
	HYDROGRAPH AT						
+		BD80qP	364.	12.00	347.	124.	43.	14.17
	ROUTED TO						
+		P80qS	364.	12.08	347.	124.	43.	14.17
	2 COMBINED AT						
+		C80qS	364.	12.08	347.	124.	43.	14.17
	HYDROGRAPH AT						
+		52t	275.	12.33	64.	20.	7.	.30
	ROUTED TO						
		S52t	274.	12.42	64.	18.	6.	.30
	HYDROGRAPH AT						
+		BD52sP	191.	12.00	94.	31.	10.	.66
	ROUTED TO						
+		P52sS	191.	12.08	94.	31.	10.	.66
	2 COMBINED AT						
+		C52t	462.	12.42	157.	48.	16.	.96
	DIVERSION TO						
+		D52tP	281.	12.08	134.	43.	14.	.96
	HYDROGRAPH AT						
+		D52t	181.	12.42	23.	6.	2.	.96
	DIVERSION TO						
+		D52tS	74.	12.42	10.	2.	1.	.96
	HYDROGRAPH AT						
+		D52tW	107.	12.42	14.	3.	1.	.96
	ROUTED TO						
+		R52tW	99.	12.67	14.	3.	1.	.96
	HYDROGRAPH AT						
+		56t	170.	12.33	43.	14.	5.	.18
	HYDROGRAPH AT						
+		BD56sP	201.	12.08	92.	28.	9.	1.27
	ROUTED TO						
+		P56sS	201.	12.17	92.	28.	9.	1.27
	HYDROGRAPH AT						
+		BD56sS	59.	12.58	9.	2.	1.	1.27
	ROUTED TO						
		R56sS	55.	13.00	9.	2.	1.	1.27
	2 COMBINED AT						
+		C56sS	256.	13.00	101.	31.	10.	1.27
	3 COMBINED AT						

+		C56t	462.	12.75	157.	47.	16.	1.74
+	DIVERSION TO	D56tP	462.	12.75	157.	47.	16.	1.74
+	HYDROGRAPH AT	D56t	0.	.00	0.	0.	0.	1.74
+	DIVERSION TO	D56tS	0.	.00	0.	0.	0.	1.74
+	HYDROGRAPH AT	D56tW	0.	.00	0.	0.	0.	1.74
+	ROUTED TO	R56tW	0.	.00	0.	0.	0.	1.74
+	HYDROGRAPH AT	60t	285.	12.42	71.	22.	7.	.33
+	ROUTED TO	S60t	285.	12.42	71.	21.	7.	.33
+	HYDROGRAPH AT	BD60sS	150.	12.75	25.	6.	2.	1.87
+	ROUTED TO	R60sS	142.	12.92	25.	6.	2.	1.87
+	3 COMBINED AT	C60t	356.	12.75	94.	27.	9.	2.68
+	DIVERSION TO	D60tS	96.	12.75	25.	7.	2.	2.68
+	HYDROGRAPH AT	D60tW	260.	12.75	69.	20.	7.	2.68
+	ROUTED TO	R60tW	256.	12.92	69.	20.	7.	2.68
+	HYDROGRAPH AT	64t	248.	12.33	57.	18.	6.	.27
+	HYDROGRAPH AT	BD64sP	327.	12.00	152.	49.	16.	2.54
+	ROUTED TO	P64sS	327.	12.08	152.	49.	16.	2.54
+	HYDROGRAPH AT	BD64sS	197.	12.83	36.	9.	3.	2.54
+	ROUTED TO	R64sS	191.	13.00	36.	9.	3.	2.54
+	2 COMBINED AT	C64sS	518.	13.00	188.	58.	19.	2.54
+	3 COMBINED AT	C64t	911.	12.83	311.	95.	32.	3.61
+	DIVERSION TO	D64tPT	0.	.00	0.	0.	0.	3.61
+	HYDROGRAPH AT	D64t	911.	12.83	311.	95.	32.	3.61
+	DIVERSION TO	D64tP	375.	12.00	196.	67.	22.	3.61
+	HYDROGRAPH AT	D64t1	536.	12.83	115.	29.	10.	3.61
+	DIVERSION TO	D64tS	236.	12.83	51.	13.	4.	3.61
+	HYDROGRAPH AT	D64tW	300.	12.83	64.	16.	5.	3.61
+	ROUTED TO	R64tW	295.	13.00	64.	16.	5.	3.61
+	HYDROGRAPH AT	68t	262.	12.33	54.	16.	5.	.25

+	HYDROGRAPH AT	BD68sP	124.	12.08	57.	18.	6.	3.07
	ROUTED TO	P68sS	124.	12.17	57.	18.	6.	3.07
+	HYDROGRAPH AT	BD68sS	103.	12.83	19.	5.	2.	3.07
+	ROUTED TO	R68sS	101.	13.00	19.	5.	2.	3.07
+	2 COMBINED AT	C68sS	225.	13.00	76.	23.	8.	3.07
+	3 COMBINED AT	C68t	639.	12.92	192.	54.	18.	4.39
+	DIVERSION TO	D68tP	124.	11.92	70.	24.	8.	4.39
+	HYDROGRAPH AT	D68t	515.	12.92	122.	31.	10.	4.39
+	DIVERSION TO	D68tS	237.	12.92	56.	14.	5.	4.39
+	HYDROGRAPH AT	D68tW	278.	12.92	66.	16.	5.	4.39
+	ROUTED TO	R68tW	272.	13.08	66.	16.	5.	4.39
+	HYDROGRAPH AT	72t	194.	12.33	49.	14.	5.	.22
+	HYDROGRAPH AT	BD72sS	194.	12.92	42.	11.	4.	4.68
+	ROUTED TO	R72sS	191.	13.08	42.	11.	4.	4.68
	HYDROGRAPH AT	BD72sP	662.	12.00	538.	223.	75.	4.68
+	DIVERSION TO	D72sP2	229.	12.00	186.	77.	26.	4.68
+	HYDROGRAPH AT	D72sP1	433.	12.00	352.	146.	49.	4.68
+	ROUTED TO	P72sS1	433.	12.08	352.	146.	49.	4.68
+	HYDROGRAPH AT	B72sP2	229.	12.00	186.	77.	26.	4.68
+	ROUTED TO	P72sS2	229.	12.08	186.	77.	26.	4.68
+	3 COMBINED AT	C72sS	853.	13.08	581.	234.	79.	4.68
+	3 COMBINED AT	C72t	1234.	13.00	692.	263.	89.	6.23
+	DIVERSION TO	D72tP	714.	12.08	569.	233.	79.	6.23
+	HYDROGRAPH AT	D72t	520.	13.00	122.	31.	10.	6.23
+	DIVERSION TO	D72tS	275.	13.00	65.	16.	5.	6.23
+	HYDROGRAPH AT	D72tW	244.	13.00	57.	14.	5.	6.23
+	ROUTED TO	R72tW	238.	13.25	57.	14.	5.	6.23
	HYDROGRAPH AT	76t	264.	12.33	61.	18.	6.	.27
+	HYDROGRAPH AT	BD76sP	204.	11.83	193.	67.	23.	13.28

+	ROUTED TO	P76sS	204.	11.92	193.	67.	23.	13.28
+	HYDROGRAPH AT	BD76sS	317.	13.25	119.	30.	10.	13.28
+	ROUTED TO	R76sS	313.	13.42	119.	30.	10.	13.28
+	2 COMBINED AT	C76sS	517.	13.42	312.	97.	32.	13.28
+	3 COMBINED AT	C76t	821.	13.33	422.	127.	43.	15.10
+	DIVERSION TO	D76tP	297.	12.00	267.	89.	30.	15.10
+	HYDROGRAPH AT	D76t	524.	13.33	155.	39.	13.	15.10
+	DIVERSION TO	D76tS	278.	13.33	82.	21.	7.	15.10
+	HYDROGRAPH AT	D76tW	246.	13.33	73.	18.	6.	15.10
+	ROUTED TO	R76tW	239.	13.58	73.	18.	6.	15.10
+	HYDROGRAPH AT	80t	215.	12.33	46.	14.	5.	.25
+	3 COMBINED AT	C80t	650.	13.42	460.	155.	53.	16.24
+	DIVERSION TO	D80tP	364.	12.00	349.	128.	44.	16.24
+	HYDROGRAPH AT	D80t	286.	13.42	111.	28.	9.	16.24
+	ROUTED TO	R80tS	285.	13.50	111.	28.	9.	16.24
+	HYDROGRAPH AT	52u	257.	12.42	53.	15.	5.	.39
+	HYDROGRAPH AT	BD52tS	74.	12.42	10.	2.	1.	.96
+	ROUTED TO	R52tS	65.	12.83	10.	2.	1.	.96
+	2 COMBINED AT	C52u	265.	12.67	62.	17.	6.	1.35
+	ROUTED TO	S52u	101.	13.50	57.	15.	5.	1.35
+	HYDROGRAPH AT	BD52tP	281.	12.08	134.	43.	14.	.96
+	ROUTED TO	P52tS	281.	12.17	134.	43.	14.	.96
+	2 COMBINED AT	CC52u	382.	13.42	188.	57.	19.	1.35
+	DIVERSION TO	D52uP	281.	12.17	166.	52.	17.	1.35
+	HYDROGRAPH AT	D52u	101.	13.42	23.	6.	2.	1.35
+	DIVERSION TO	D52uS	32.	13.42	7.	2.	1.	1.35
+	HYDROGRAPH AT	D52uW	69.	13.42	15.	4.	1.	1.35
+	ROUTED TO	R52uW	67.	13.58	15.	4.	1.	1.35
	HYDROGRAPH AT							

+	56u	203.	12.42	49.	14.	5.	.33
HYDROGRAPH AT	BD56tS	0.	.00	0.	0.	0.	1.74
ROUTED TO +	R56tS	0.	.00	0.	0.	0.	1.74
3 COMBINED AT +	C56u	204.	12.50	63.	18.	6.	2.46
ROUTED TO +	S56u	204.	12.67	59.	17.	6.	2.46
HYDROGRAPH AT +	BD56tP	462.	12.75	157.	47.	16.	1.74
ROUTED TO +	P56tS	462.	12.75	157.	47.	16.	1.74
2 COMBINED AT +	CC56u	662.	12.75	215.	64.	22.	2.46
DIVERSION TO +	D56uP	612.	12.50	211.	63.	21.	2.46
HYDROGRAPH AT +	D56u	50.	12.75	3.	1.	0.	2.46
DIVERSION TO +	D56uS	11.	12.75	1.	0.	0.	2.46
HYDROGRAPH AT +	D56uW	40.	12.75	3.	1.	0.	2.46
ROUTED TO +	R56uW	22.	13.17	3.	1.	0.	2.46
HYDROGRAPH AT +	60u	206.	12.42	45.	13.	4.	.28
HYDROGRAPH AT	BD60tS	96.	12.75	25.	7.	2.	2.68
ROUTED TO +	R60tS	93.	13.08	25.	7.	2.	2.68
3 COMBINED AT +	C60u	243.	12.67	71.	21.	7.	3.68
ROUTED TO +	S60u	241.	12.75	71.	21.	7.	3.68
DIVERSION TO +	D60uP	124.	12.25	53.	16.	5.	3.68
HYDROGRAPH AT +	D60u	117.	12.75	19.	5.	2.	3.68
DIVERSION TO +	D60uS	39.	12.75	6.	2.	1.	3.68
HYDROGRAPH AT +	D60uW	78.	12.75	13.	3.	1.	3.68
ROUTED TO +	R60uW	74.	13.00	13.	3.	1.	3.68
HYDROGRAPH AT +	64u	245.	12.42	56.	17.	6.	.30
HYDROGRAPH AT +	BD64tP	375.	12.00	196.	67.	22.	3.61
ROUTED TO +	P64tS	375.	12.08	196.	67.	22.	3.61
HYDROGRAPH AT +	BD64tS	236.	12.83	51.	13.	4.	3.61
ROUTED TO	R64tS	232.	13.00	51.	13.	4.	3.61
2 COMBINED AT +	C64tS	607.	13.00	247.	79.	27.	3.61

+	3 COMBINED AT	C64u	822.	12.92	312.	99.	33.	4.91
+	DIVERSION TO	D64uPT	0.	.00	0.	0.	0.	4.91
+	HYDROGRAPH AT	D64u	822.	12.92	312.	99.	33.	4.91
+	DIVERSION TO	D64uP	375.	12.00	209.	73.	24.	4.91
+	HYDROGRAPH AT	D64u1	447.	12.92	103.	26.	9.	4.91
+	DIVERSION TO	D64uS	112.	12.92	26.	6.	2.	4.91
+	HYDROGRAPH AT	D64uW	335.	12.92	77.	19.	6.	4.91
+	ROUTED TO	R64uW	325.	13.17	77.	19.	6.	4.91
+	HYDROGRAPH AT	68u	251.	12.42	60.	18.	6.	.28
+	HYDROGRAPH AT	BD68tP	124.	11.92	70.	24.	8.	4.39
+	ROUTED TO	P68tS	124.	12.00	70.	24.	8.	4.39
+	HYDROGRAPH AT	BD68tS	237.	12.92	56.	14.	5.	4.39
+	ROUTED TO	R68tS	232.	13.08	56.	14.	5.	4.39
+	2 COMBINED AT	C68tS	356.	13.08	126.	38.	13.	4.39
+	3 COMBINED AT	C68u	817.	13.00	260.	74.	25.	5.97
+	DIVERSION TO	D68uP	146.	11.92	91.	32.	11.	5.97
+	HYDROGRAPH AT	D68u	671.	13.00	169.	42.	14.	5.97
+	DIVERSION TO	D68uS	141.	13.00	36.	9.	3.	5.97
+	HYDROGRAPH AT	D68uW	530.	13.00	134.	33.	11.	5.97
+	ROUTED TO	R68uW	525.	13.17	134.	33.	11.	5.97
+	HYDROGRAPH AT	72u	235.	12.42	54.	15.	5.	.26
+	2 COMBINED AT	C72u	644.	13.00	186.	48.	16.	6.23
+	HYDROGRAPH AT	BD72tP	714.	12.08	569.	233.	79.	6.23
+	DIVERSION TO	D72tP2	281.	12.08	224.	92.	31.	6.23
+	HYDROGRAPH AT	D72tP1	433.	12.08	345.	141.	48.	6.23
+	ROUTED TO	P72tS1	433.	12.17	345.	141.	48.	6.23
+	HYDROGRAPH AT	B72tP2	281.	12.08	224.	92.	31.	6.23
+	ROUTED TO	P72tS2	281.	12.17	224.	92.	31.	6.23
+	HYDROGRAPH AT	B72tS	275.	13.00	65.	16.	5.	6.23

+	ROUTED TO	R72tS	269.	13.25	65.	16.	5.	6.23
+	3 COMBINED AT	C72tS	983.	13.25	634.	249.	84.	6.23
+	2 COMBINED AT	CC72u	1614.	13.08	817.	296.	100.	8.06
+	DIVERSION TO	D72uP	714.	12.00	583.	238.	80.	8.06
+	HYDROGRAPH AT	D72u	900.	13.08	234.	59.	20.	8.06
+	DIVERSION TO	D72uS	279.	13.08	73.	18.	6.	8.06
+	HYDROGRAPH AT	D72uW	621.	13.08	162.	40.	13.	8.06
+	ROUTED TO	R72uW	615.	13.25	162.	40.	13.	8.06
+	HYDROGRAPH AT	BD76tP	297.	12.00	267.	89.	30.	15.10
+	DIVERSION TO	D76tP2	48.	12.00	43.	14.	5.	15.10
+	HYDROGRAPH AT	D76tP1	249.	12.00	224.	74.	25.	15.10
+	ROUTED TO	P76tS1	249.	12.08	224.	74.	25.	15.10
+	HYDROGRAPH AT	B76tP2	48.	12.00	43.	14.	5.	15.10
	ROUTED TO	P76tS2	48.	12.17	43.	14.	5.	15.10
+	HYDROGRAPH AT	BD76tS	278.	13.33	82.	21.	7.	15.10
+	ROUTED TO	R76tS	270.	13.50	82.	21.	7.	15.10
+	3 COMBINED AT	C76tS	567.	13.50	349.	109.	37.	15.10
+	HYDROGRAPH AT	76u	261.	12.42	59.	17.	6.	.28
+	3 COMBINED AT	C76u	1229.	13.25	555.	162.	54.	17.22
+	DIVERSION TO	D76uP	297.	11.92	271.	92.	31.	17.22
+	HYDROGRAPH AT	D76u	932.	13.25	284.	71.	24.	17.22
+	DIVERSION TO	D76uS	0.	.00	0.	0.	0.	17.22
+	HYDROGRAPH AT	D76uW	932.	13.25	284.	71.	24.	17.22
+	ROUTED TO	R76uW	929.	13.33	284.	71.	24.	17.22
+	HYDROGRAPH AT	80u	252.	12.33	55.	17.	6.	.25
+	3 COMBINED AT	C80u	1270.	13.25	442.	114.	38.	18.61
	HYDROGRAPH AT	BD80tP	364.	12.00	349.	128.	44.	16.24
+	ROUTED TO	P80tS	364.	12.08	349.	128.	44.	16.24
	HYDROGRAPH AT							

+	BD80qW	2500.	13.33	932.	233.	78.	14.17
3 COMBINED AT +	CC80u	4071.	13.33	1698.	468.	157.	18.61
ROUTED TO +	S-I17	2788.	14.33	1085.	466.	157.	18.61
DIVERSION TO +	D80uP	509.	13.58	509.	322.	109.	18.61
HYDROGRAPH AT +	D80u	2279.	14.33	576.	144.	48.	18.61
ROUTED TO +	R80uW	2250.	14.42	575.	144.	48.	18.61
HYDROGRAPH AT +	84t	237.	12.33	63.	20.	7.	.27
HYDROGRAPH AT +	P84tN	252.	13.00	64.	19.	6.	.50
2 COMBINED AT +	C84t	398.	13.00	126.	39.	13.	.77
DIVERSION TO +	D84tP	252.	12.25	105.	34.	11.	.77
HYDROGRAPH AT +	D84t	146.	13.00	20.	5.	2.	.77
DIVERSION TO +	D84tW	19.	13.00	3.	1.	0.	.77
HYDROGRAPH AT +	D84tS	127.	13.00	18.	4.	1.	.77
ROUTED TO +	R84tS	113.	13.08	18.	4.	1.	.77
HYDROGRAPH AT	84u	229.	12.42	54.	17.	6.	.26
3 COMBINED AT +	C84u	2618.	14.33	714.	184.	61.	9.04
ROUTED TO +	S84u	2611.	14.33	712.	184.	61.	9.04
HYDROGRAPH AT +	BD84tP	252.	12.25	105.	34.	11.	.77
ROUTED TO +	P84tS	252.	12.33	105.	34.	11.	.77
2 COMBINED AT +	CC84u	2706.	14.33	812.	217.	73.	9.04
DIVERSION TO +	D84uP	252.	12.17	230.	72.	24.	9.04
HYDROGRAPH AT +	D84u	2454.	14.33	582.	145.	48.	9.04
DIVERSION TO +	D84uS	491.	14.33	116.	29.	10.	9.04
HYDROGRAPH AT +	D84uW	1963.	14.33	465.	116.	39.	9.04
ROUTED TO +	R84uW	1943.	14.42	465.	116.	39.	9.04
HYDROGRAPH AT +	88t	176.	12.42	51.	16.	5.	.26
HYDROGRAPH AT +	BD84tW	19.	13.00	3.	1.	0.	.77
ROUTED TO +	R84tW	15.	13.33	3.	1.	0.	.77
2 COMBINED AT +	C88t	176.	12.42	54.	17.	6.	1.03

+	DIVERSION TO	D88tW	52.	12.42	16.	5.	2.	1.03
	HYDROGRAPH AT	D88tS	121.	12.42	37.	12.	4.	1.03
+	ROUTED TO	R88tS	117.	12.67	37.	12.	4.	1.03
+	HYDROGRAPH AT	88u	202.	12.42	54.	16.	6.	.25
+	3 COMBINED AT	C88u	2000.	14.42	551.	143.	48.	9.55
+	DIVERSION TO	D88uP	36.	11.75	35.	14.	5.	9.55
+	HYDROGRAPH AT	D88u	1964.	14.42	516.	129.	43.	9.55
+	DIVERSION TO	D88uS	1492.	14.42	392.	98.	33.	9.55
+	HYDROGRAPH AT	D88uW	471.	14.42	124.	31.	10.	9.55
+	ROUTED TO	R88uW	437.	14.75	123.	31.	10.	9.55
+	HYDROGRAPH AT	BD88uP	36.	11.75	35.	14.	5.	9.55
+	ROUTED TO	P88uW	36.	11.92	35.	14.	5.	9.55
+	2 COMBINED AT	C88uW	473.	14.75	158.	45.	15.	9.55
+	HYDROGRAPH AT	92t	104.	12.42	30.	9.	3.	.17
	HYDROGRAPH AT	BD88tW	52.	12.42	16.	5.	2.	1.03
+	ROUTED TO	R88tW	50.	12.67	16.	5.	2.	1.03
+	2 COMBINED AT	C92t	148.	12.58	45.	14.	5.	1.21
+	ROUTED TO	R92tS	145.	12.75	45.	14.	5.	1.21
+	HYDROGRAPH AT	92u	187.	12.42	49.	16.	5.	.25
+	HYDROGRAPH AT	P92uN	141.	13.00	47.	15.	5.	2.50
+	4 COMBINED AT	C92u	562.	14.67	294.	88.	30.	10.17
+	DIVERSION TO	D92uP	201.	12.17	171.	57.	19.	10.17
+	HYDROGRAPH AT	D92u	361.	14.67	123.	31.	10.	10.17
+	ROUTED TO	R92uS	353.	14.75	123.	31.	10.	10.17
+	HYDROGRAPH AT	B92uP	201.	12.17	171.	57.	19.	10.17
+	ROUTED TO	P92uS	201.	12.25	171.	57.	19.	10.17
+	2 COMBINED AT	C92uS	554.	14.75	294.	88.	30.	10.17
	HYDROGRAPH AT	76v	156.	12.42	43.	14.	5.	.24
+	HYDROGRAPH AT	B76uP	297.	11.92	271.	92.	31.	17.22

	DIVERSION TO						
+		D76uP1	249.	11.92	227.	77.	26.	17.22
	HYDROGRAPH AT						
+		D76uP2	48.	11.92	44.	15.	5.	17.22
	ROUTED TO						
+		P76uS2	48.	12.00	44.	15.	5.	17.22
	HYDROGRAPH AT						
+		BD76uS	0.	.00	0.	0.	0.	17.22
	ROUTED TO						
+		R76uS	0.	.00	0.	0.	0.	17.22
	2 COMBINED AT						
+		C76uS	48.	12.00	44.	15.	5.	17.22
	2 COMBINED AT						
+		C76v	198.	12.42	85.	28.	9.	8.24
	DIVERSION TO						
+		D76vP	109.	12.08	73.	25.	8.	8.24
	HYDROGRAPH AT						
+		D76v	89.	12.42	12.	3.	1.	8.24
	DIVERSION TO						
+		D76vS	47.	12.42	6.	2.	1.	8.24
	HYDROGRAPH AT						
+		D76vW	42.	12.42	6.	1.	0.	8.24
	ROUTED TO						
+		R76vW	37.	12.92	6.	1.	0.	8.24
	HYDROGRAPH AT						
+		80v	216.	12.33	54.	18.	6.	.23
	HYDROGRAPH AT						
+		B76uP1	249.	11.92	227.	77.	26.	17.22
	ROUTED TO						
+		P76uS1	249.	12.08	227.	77.	26.	17.22
	3 COMBINED AT						
+		C80v	457.	12.33	286.	96.	32.	8.23
	DIVERSION TO						
+		D80vP	249.	11.92	233.	83.	28.	8.23
	HYDROGRAPH AT						
+		D80v	208.	12.33	52.	13.	4.	8.23
	DIVERSION TO						
+		D80vS	117.	12.33	29.	7.	2.	8.23
	HYDROGRAPH AT						
+		D80vW	92.	12.33	23.	6.	2.	8.23
	ROUTED TO						
+		R80vW	86.	13.00	23.	6.	2.	8.23
	HYDROGRAPH AT						
+		84v	138.	12.42	37.	12.	4.	.25
	HYDROGRAPH AT						
+		BD80uP	509.	13.58	509.	322.	109.	18.61
	ROUTED TO						
+		P80uS	509.	13.67	509.	322.	109.	18.61
	3 COMBINED AT						
+		C84v	643.	13.17	547.	341.	116.	8.73
	HYDROGRAPH AT						
+		BD84uP	252.	12.17	230.	72.	24.	9.04
	ROUTED TO						
+		P84uS	252.	12.25	230.	72.	24.	9.04
	HYDROGRAPH AT						
+		BD84uS	491.	14.33	116.	29.	10.	9.04
	ROUTED TO						

+	R84uS	482.	14.50	116.	29.	10.	9.04
2 COMBINED AT	C84uS	734.	14.50	346.	101.	34.	9.04
2 COMBINED AT +	CC84v	1283.	14.50	884.	440.	150.	9.76
DIVERSION TO +	D84vP	1269.	14.50	884.	440.	150.	9.76
HYDROGRAPH AT +	D84v	14.	14.50	0.	0.	0.	9.76
DIVERSION TO +	D84vS	5.	14.50	0.	0.	0.	9.76
HYDROGRAPH AT +	D84vW	9.	14.50	0.	0.	0.	9.76
ROUTED TO +	R84vW	1.	14.83	0.	0.	0.	9.76
HYDROGRAPH AT +	88v	188.	12.50	57.	17.	6.	.25
HYDROGRAPH AT +	BD88uS	1492.	14.42	392.	98.	33.	9.55
ROUTED TO +	R88uS	1474.	14.58	392.	98.	33.	9.55
3 COMBINED AT +	C88v	1482.	14.58	441.	113.	38.	10.52
DIVERSION TO +	D88vP	51.	12.00	47.	15.	5.	10.52
HYDROGRAPH AT +	D88v	1431.	14.58	393.	98.	33.	10.52
ROUTED TO	R88vW	1392.	14.75	393.	98.	33.	10.52
HYDROGRAPH AT +	92v	161.	12.33	42.	14.	5.	.16
3 COMBINED AT +	C92v	1903.	14.75	716.	197.	66.	11.30
DIVERSION TO +	D92v	1702.	14.75	528.	132.	44.	11.30
HYDROGRAPH AT +	D92vP	201.	12.00	188.	65.	22.	11.30
ROUTED TO +	P92vS	201.	12.17	188.	65.	22.	11.30
HYDROGRAPH AT +	88w	422.	12.42	109.	34.	11.	.60
HYDROGRAPH AT +	BD88vP	51.	12.00	47.	15.	5.	10.52
ROUTED TO +	P88vS	51.	12.08	47.	15.	5.	10.52
3 COMBINED AT +	C88w	657.	12.42	338.	113.	38.	11.90
HYDROGRAPH AT +	44v	91.	12.42	24.	8.	3.	.24
HYDROGRAPH AT +	BD44sP	201.	11.83	147.	56.	19.	3.79
ROUTED TO +	P44sS	201.	12.08	147.	56.	19.	3.79
2 COMBINED AT	C44v	287.	12.42	170.	63.	21.	4.03
HYDROGRAPH AT +	B48oPT	2557.	13.42	1181.	360.	120.	14.34

+	ROUTED TO	PT48o	2556.	13.42	1181.	360.	120.	14.34
+	HYDROGRAPH AT	B48qPT	336.	12.67	86.	24.	8.	2.87
+	2 COMBINED AT	CPT48q	2727.	13.33	1253.	380.	127.	16.11
+	ROUTED TO	PT48q	2727.	13.33	1253.	380.	127.	16.11
+	HYDROGRAPH AT	B48sPT	1048.	12.92	282.	74.	25.	4.31
+	2 COMBINED AT	CPT48s	3629.	13.08	1511.	447.	149.	17.54
+	ROUTED TO	PT48s	3627.	13.08	1512.	447.	150.	17.54
+	HYDROGRAPH AT	48v	212.	12.42	62.	22.	7.	.30
+	2 COMBINED AT	C48v	3744.	13.08	1567.	467.	156.	17.84
+	2 COMBINED AT	NUL48v	3995.	13.08	1732.	528.	177.	18.08
+	HYDROGRAPH AT	52v	121.	12.50	32.	10.	3.	.30
+	HYDROGRAPH AT	BD52uP	281.	12.17	166.	52.	17.	1.35
+	ROUTED TO	P52uS	281.	12.25	166.	52.	17.	1.35
+	HYDROGRAPH AT	BD52uS	32.	13.42	7.	2.	1.	1.35
+	ROUTED TO	R52uS	31.	13.58	7.	2.	1.	1.35
+	2 COMBINED AT	C52uS	312.	13.58	173.	53.	18.	1.35
+	2 COMBINED AT	C52v	403.	12.58	203.	63.	21.	1.64
+	2 COMBINED AT	NUL52v	4353.	13.08	1916.	585.	196.	19.72
+	HYDROGRAPH AT	56v	122.	12.50	36.	11.	4.	.23
+	HYDROGRAPH AT	BD56uP	612.	12.50	211.	63.	21.	2.46
+	ROUTED TO	P56uS	612.	12.58	211.	63.	21.	2.46
+	HYDROGRAPH AT	BD56uS	11.	12.75	1.	0.	0.	2.46
+	ROUTED TO	R56uS	7.	13.08	1.	0.	0.	2.46
+	2 COMBINED AT	C56uS	618.	13.00	212.	63.	21.	2.46
+	2 COMBINED AT	C56v	728.	12.58	247.	74.	25.	2.69
+	2 COMBINED AT	NUL56v	5024.	13.00	2143.	653.	219.	21.07
+	HYDROGRAPH AT	60v	153.	12.42	43.	14.	5.	.23
+	HYDROGRAPH AT	BD60uP	124.	12.25	53.	16.	5.	3.68
+	ROUTED TO	P60uS	124.	12.33	53.	16.	5.	3.68

	HYDROGRAPH AT						
+		BD60uS	39.	12.75	6.	2.	1.	3.68
	ROUTED TO						
+		R60uS	37.	12.92	6.	2.	1.	3.68
	2 COMBINED AT						
+		C60uS	161.	12.92	59.	17.	6.	3.68
	2 COMBINED AT						
+		C60v	282.	12.67	100.	31.	10.	3.91
	2 COMBINED AT						
+		NUL60v	5260.	13.00	2229.	680.	228.	22.51
	HYDROGRAPH AT						
+		BPT64o	4032.	13.33	2046.	629.	211.	21.04
	HYDROGRAPH AT						
+		B64qPT	0.	.00	0.	0.	0.	1.51
	2 COMBINED AT						
+		CPT64q	4032.	13.33	2046.	629.	211.	22.55
	ROUTED TO						
+		PT64q	4020.	13.42	2036.	626.	210.	22.55
	HYDROGRAPH AT						
+		B64sPT	0.	.00	0.	0.	0.	2.54
	2 COMBINED AT						
+		CPT64s	4020.	13.42	2036.	626.	210.	23.58
	ROUTED TO						
+		PT64s	4011.	13.42	2029.	624.	209.	23.58
	HYDROGRAPH AT						
+		B64tPT	0.	.00	0.	0.	0.	3.61
	2 COMBINED AT						
		CPT64t	4011.	13.42	2029.	624.	209.	24.65
	ROUTED TO						
+		PT64t	4002.	13.42	2023.	622.	209.	24.65
	HYDROGRAPH AT						
+		B64uPT	0.	.00	0.	0.	0.	4.91
	2 COMBINED AT						
+		CPT64u	4002.	13.42	2023.	622.	209.	25.95
	ROUTED TO						
+		PT64u	3990.	13.42	2015.	620.	208.	25.95
	HYDROGRAPH AT						
+		64v	165.	12.33	42.	14.	5.	.19
	HYDROGRAPH AT						
+		BD64uP	375.	12.00	209.	73.	24.	4.91
	ROUTED TO						
+		P64uS	375.	12.08	209.	73.	24.	4.91
	HYDROGRAPH AT						
+		BD64uS	112.	12.92	26.	6.	2.	4.91
	ROUTED TO						
+		R64uS	111.	13.00	26.	6.	2.	4.91
	2 COMBINED AT						
+		C64uS	486.	13.00	235.	79.	27.	4.91
	3 COMBINED AT						
+		C64v	4498.	13.42	2274.	709.	238.	26.15
	2 COMBINED AT						
+		NUL64v	9171.	13.08	4260.	1316.	441.	44.28
	HYDROGRAPH AT						
		68v	128.	12.42	36.	11.	4.	.22
	HYDROGRAPH AT						
+		BD68uP	146.	11.92	91.	32.	11.	5.97
	ROUTED TO						

+	P68uS	146.	12.00	91.	32.	11.	5.97
HYDROGRAPH AT	BD68uS	141.	13.00	36.	9.	3.	5.97
ROUTED TO +	R68uS	140.	13.17	36.	9.	3.	5.97
2 COMBINED AT +	C68uS	286.	13.17	126.	41.	14.	5.97
2 COMBINED AT +	C68v	376.	12.92	161.	51.	17.	6.19
2 COMBINED AT +	NUL68v	9492.	13.08	4394.	1360.	456.	45.56
HYDROGRAPH AT +	72v	328.	12.33	85.	28.	9.	.41
HYDROGRAPH AT +	BD72uP	714.	12.00	583.	238.	80.	8.06
DIVERSION TO +	D72uP2	281.	12.00	230.	94.	32.	8.06
HYDROGRAPH AT +	D72uP1	433.	12.00	354.	144.	49.	8.06
ROUTED TO +	P72uS1	433.	12.17	354.	144.	49.	8.06
HYDROGRAPH AT +	B72uP2	281.	12.00	230.	94.	32.	8.06
ROUTED TO +	P72uS2	281.	12.17	230.	94.	32.	8.06
HYDROGRAPH AT +	BD72uS	279.	13.08	73.	18.	6.	8.06
ROUTED TO +	R72uS	275.	13.33	73.	18.	6.	8.06
3 COMBINED AT +	C72uS	989.	13.33	656.	256.	86.	8.06
2 COMBINED AT +	C72v	1130.	13.08	735.	283.	96.	8.47
2 COMBINED AT +	NUL72v	10547.	13.08	5078.	1622.	544.	47.06
HYDROGRAPH AT +	76w	121.	12.42	24.	6.	2.	.33
HYDROGRAPH AT +	BD76vS	47.	12.42	6.	2.	1.	8.24
ROUTED TO +	R76vS	44.	12.75	6.	2.	1.	8.24
HYDROGRAPH AT +	BD76vP	109.	12.08	73.	25.	8.	8.24
ROUTED TO +	P76vS	109.	12.25	73.	25.	8.	8.24
2 COMBINED AT +	C76vS	153.	12.75	80.	27.	9.	8.24
2 COMBINED AT +	C76w	256.	12.58	102.	33.	11.	8.57
2 COMBINED AT +	NUL76w	10597.	13.08	5085.	1625.	545.	56.10
HYDROGRAPH AT +	80w	290.	12.33	72.	24.	8.	.36
HYDROGRAPH AT +	BD80vS	117.	12.33	29.	7.	2.	8.23
ROUTED TO +	R80vS	112.	12.67	29.	7.	2.	8.23

+	2 COMBINED AT	C80w	362.	12.50	98.	31.	10.	8.59
	2 COMBINED AT	NUL80w	10773.	13.08	5155.	1647.	553.	58.09
+	HYDROGRAPH AT	BD84vS	5.	14.50	0.	0.	0.	9.76
+	ROUTED TO	R84vS	1.	14.83	0.	0.	0.	9.76
+	HYDROGRAPH AT	BD84vP	1269.	14.50	884.	440.	150.	9.76
+	DIVERSION TO	D84vP2	1017.	14.50	708.	353.	120.	9.76
+	HYDROGRAPH AT	D84vP1	252.	14.50	175.	87.	30.	9.76
+	ROUTED TO	P84vS1	252.	14.58	175.	87.	30.	9.76
+	HYDROGRAPH AT	B84vP2	1017.	14.50	708.	353.	120.	9.76
+	ROUTED TO	P84vS2	1017.	14.58	708.	353.	120.	9.76
+	3 COMBINED AT	C84vS	1269.	14.58	883.	440.	150.	9.76
+	HYDROGRAPH AT	84w	231.	12.42	60.	19.	6.	.34
+	HYDROGRAPH AT	BD80vP	249.	11.92	233.	83.	28.	8.23
+	ROUTED TO	P80vS	249.	12.08	233.	83.	28.	8.23
	3 COMBINED AT	C84w	1543.	14.58	1157.	539.	184.	10.10
+	2 COMBINED AT	NUL84w	12001.	13.08	6173.	2134.	724.	59.72
+	2 COMBINED AT	NUL88w	12459.	13.08	6481.	2235.	758.	61.86
+	HYDROGRAPH AT	24s	183.	12.25	34.	10.	4.	.19
+	ROUTED TO	S24s	144.	12.50	29.	8.	3.	.19
+	HYDROGRAPH AT	B28qP2	32.	12.08	15.	5.	2.	.82
+	ROUTED TO	P28qE	32.	12.17	15.	5.	2.	.82
+	2 COMBINED AT	C24s	176.	12.50	44.	13.	4.	.20
+	DIVERSION TO	D24sP	176.	12.50	44.	13.	4.	.20
+	HYDROGRAPH AT	D24s	0.	.00	0.	0.	0.	.20
+	ROUTED TO	R24sS	0.	.00	0.	0.	0.	.20
+	HYDROGRAPH AT	BD24sP	176.	12.50	44.	13.	4.	.20
+	DIVERSION TO	D24sPE	23.	12.50	6.	2.	1.	.20
+	HYDROGRAPH AT	D24sPS	154.	12.50	38.	12.	4.	.20
+	ROUTED TO	P24sS	153.	12.58	38.	12.	4.	.20

+	2 COMBINED AT	C24sS	153.	12.58	38.	12.	4.	.20
+	HYDROGRAPH AT	24t	199.	12.25	23.	6.	2.	.26
+	2 COMBINED AT	C24t	280.	12.42	60.	18.	6.	.46
+	ROUTED TO	S24t	53.	13.75	39.	17.	6.	.46
+	HYDROGRAPH AT	04s	407.	12.08	39.	12.	4.	.28
+	ROUTED TO	S04s	389.	12.17	38.	12.	4.	.28
+	ROUTED TO	R04sS	349.	12.25	38.	12.	4.	.28
+	HYDROGRAPH AT	08q	469.	12.17	75.	24.	8.	.44
+	ROUTED TO	R08qS	456.	12.33	75.	24.	8.	.44
+	HYDROGRAPH AT	08s	736.	12.25	114.	37.	12.	.65
+	3 COMBINED AT	C08s	1514.	12.25	223.	72.	24.	1.37
+	ROUTED TO	S08s	1357.	12.33	180.	70.	24.	1.37
+	DIVERSION TO	D08sP	862.	12.33	161.	65.	22.	1.37
+	HYDROGRAPH AT	D08s	495.	12.33	18.	5.	2.	1.37
+	ROUTED TO	R08sW	337.	12.50	18.	5.	2.	1.37
+	HYDROGRAPH AT	12q	387.	12.17	45.	12.	4.	.40
+	ROUTED TO	R12qS	366.	12.25	45.	12.	4.	.40
+	HYDROGRAPH AT	12s	292.	12.17	49.	17.	6.	.21
+	ROUTED TO	S12s	234.	12.33	34.	15.	5.	.21
+	2 COMBINED AT	C12s	585.	12.33	77.	26.	10.	.61
+	ROUTED TO	R12sW	543.	12.42	77.	26.	10.	.61
+	2 COMBINED AT	C12sW	835.	12.50	94.	31.	11.	1.97
+	DIVERSION TO	D16sP2	818.	12.50	94.	31.	11.	1.97
+	HYDROGRAPH AT	D16s2	17.	12.50	0.	0.	0.	1.97
+	HYDROGRAPH AT	16o	487.	12.00	52.	18.	6.	.21
+	ROUTED TO	R16oS	421.	12.08	52.	18.	6.	.21
+	HYDROGRAPH AT	16q	505.	12.25	84.	25.	8.	.65
+	2 COMBINED AT	C16q	856.	12.17	135.	43.	14.	.86
	ROUTED TO							

+		S16q	484.	12.50	88.	25.	8.	.86
	DIVERSION TO	D16qP	484.	12.50	88.	25.	8.	.86
	HYDROGRAPH AT							
+		D16q	0.	.00	0.	0.	0.	.86
	ROUTED TO							
+		R16qS	0.	.00	0.	0.	0.	.86
	HYDROGRAPH AT							
+		16s	608.	12.17	88.	29.	10.	.42
	3 COMBINED AT							
+		C16s	594.	12.17	87.	29.	10.	3.26
	ROUTED TO							
+		S16s	565.	12.25	68.	19.	6.	3.26
	HYDROGRAPH AT							
+		BD16qP	484.	12.50	88.	25.	8.	.86
	DIVERSION TO							
+		D16qPW	129.	12.50	23.	7.	2.	.86
	HYDROGRAPH AT							
+		D16qPS	355.	12.50	64.	18.	6.	.86
	ROUTED TO							
+		P16qS	349.	12.58	64.	18.	6.	.86
	2 COMBINED AT							
+		CC16s	670.	12.42	130.	37.	12.	3.26
	DIVERSION TO							
+		D16sP	658.	12.42	130.	37.	12.	3.26
	HYDROGRAPH AT							
+		D16s	12.	12.42	0.	0.	0.	3.26
	ROUTED TO							
		R16sS	7.	12.58	0.	0.	0.	3.26
	HYDROGRAPH AT							
+		BD16sP	658.	12.42	130.	37.	12.	3.26
	ROUTED TO							
+		P16sS	653.	12.42	130.	37.	12.	3.26
	2 COMBINED AT							
+		C16sS	655.	12.42	130.	37.	12.	3.26
	HYDROGRAPH AT							
+		20p	453.	12.25	77.	23.	8.	.53
	ROUTED TO							
+		S20p1	450.	12.33	77.	22.	7.	.53
	HYDROGRAPH AT							
+		B16qPW	129.	12.50	23.	7.	2.	.86
	ROUTED TO							
+		P16qW	127.	12.58	23.	7.	2.	.86
	2 COMBINED AT							
+		C20p	505.	12.42	97.	29.	10.	1.39
	ROUTED TO							
+		S20p2	95.	13.50	85.	28.	9.	1.39
	HYDROGRAPH AT							
+		OCCC48	5420.	13.00	2110.	833.	278.	3.00
	HYDROGRAPH AT							
+		BD24oP	48.	11.92	36.	15.	5.	1.20
	ROUTED TO							
+		P24oS	48.	12.08	36.	15.	5.	1.20
	2 COMBINED AT							
		C24oS	5468.	13.00	2145.	848.	283.	3.00
	ROUTED TO							
+		ROCCC	5392.	13.00	2145.	848.	283.	3.00

	2 COMBINED AT						
+	CC20p	5485.	13.00	2209.	875.	292.	4.39
	ROUTED TO						
-	R20pS	5480.	13.08	2209.	875.	292.	4.39
	HYDROGRAPH AT						
+	20q	252.	12.25	36.	10.	3.	.28
	HYDROGRAPH AT						
+	B28pP2	68.	12.17	38.	13.	4.	3.11
	ROUTED TO						
+	P28pE	68.	12.42	38.	13.	4.	3.11
	3 COMBINED AT						
+	C20q	5595.	13.08	2282.	898.	300.	4.67
	ROUTED TO						
+	R20qS	5598.	13.08	2282.	898.	300.	4.67
	HYDROGRAPH AT						
+	20s	717.	12.17	97.	32.	11.	.48
	ROUTED TO						
+	S20s	683.	12.17	97.	30.	10.	.48
	2 COMBINED AT						
+	C20s	5675.	13.08	2376.	927.	309.	5.15
	HYDROGRAPH AT						
+	B24sPE	23.	12.50	6.	2.	1.	.20
	ROUTED TO						
+	P24sE	23.	12.58	6.	2.	1.	.20
	2 COMBINED AT						
+	CC20s	5690.	13.08	2381.	929.	310.	5.35
	ROUTED TO						
+	R20sS	5664.	13.08	2381.	929.	310.	5.35
	HYDROGRAPH AT						
+	20t	85.	12.42	17.	4.	1.	.26
	ROUTED TO						
+	S20t	0.	.00	0.	0.	0.	.26
	3 COMBINED AT						
+	C20t	5919.	13.08	2501.	965.	322.	8.01
	2 COMBINED AT						
+	NUL20t	5962.	13.08	2530.	979.	328.	8.27

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	INTERPOLATED TO COMPUTATION INTERVAL DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)
FOR STORM = 1	STORM AREA (SQ MI) =			.01					
	P76cS MANE	3.33	58.00	713.02	.25	5.00	58.00	715.00	.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3991E+02 EXCESS= .0000E+00 OUTFLOW= .3991E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 2	STORM AREA (SQ MI) =			10.00					
	P76cS MANE	3.35	58.00	713.76	.24	5.00	58.00	730.00	.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3820E+02 EXCESS= .0000E+00 OUTFLOW= .3820E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 3	STORM AREA (SQ MI) =			30.00					
	P76cS MANE	3.23	58.00	718.68	.23	5.00	58.00	720.00	.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3695E+02 EXCESS= .0000E+00 OUTFLOW= .3695E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 4	STORM AREA (SQ MI) =			60.00					
	P76cS MANE	3.30	58.00	717.85	.23	5.00	58.00	720.00	.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3566E+02 EXCESS= .0000E+00 OUTFLOW= .3567E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 5	STORM AREA (SQ MI) =			90.00					
	P76cS MANE	3.27	58.00	716.66	.22	5.00	58.00	720.00	.22

NTINUITY SUMMARY (AC-FT) - INFLOW= .3522E+02 EXCESS= .0000E+00 OUTFLOW= .3523E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 1	STORM AREA (SQ MI) =			.01					
	P68cS MANE	2.28	41.00	726.26	.46	5.00	41.00	730.00	.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1707E+02 EXCESS= .0000E+00 OUTFLOW= .1707E+02 BASIN STORAGE= .7678E-05 PERCENT ERROR= .0

FOR STORM = 2	STORM AREA (SQ MI) =			10.00					
	P68cS MANE	2.30	41.00	724.87	.44	5.00	41.00	725.00	.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1632E+02 EXCESS= .0000E+00 OUTFLOW= .1633E+02 BASIN STORAGE= .8847E-05 PERCENT ERROR= .0

FOR STORM = 3	STORM AREA (SQ MI) =			30.00					
	P68cS MANE	2.32	41.00	725.04	.42	5.00	41.00	730.00	.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1580E+02 EXCESS= .0000E+00 OUTFLOW= .1581E+02 BASIN STORAGE= .8862E-05 PERCENT ERROR= .0

FOR STORM = 4	STORM AREA (SQ MI) =			60.00					
	P68cS MANE	2.25	41.00	812.98	.41	5.00	41.00	730.00	.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1525E+02 EXCESS= .0000E+00 OUTFLOW= .1525E+02 BASIN STORAGE= .7165E-05 PERCENT ERROR= .0

FOR STORM = 5	STORM AREA (SQ MI) =			90.00					
	P68cS MANE	2.35	41.00	724.92	.40	5.00	41.00	725.00	.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1506E+02 EXCESS= .0000E+00 OUTFLOW= .1506E+02 BASIN STORAGE= .8090E-05 PERCENT ERROR= .0

FOR STORM = 1	STORM AREA (SQ MI) =			.01					
	P72cS MANE	1.61	90.00	743.47	.34	5.00	90.00	745.00	.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2227E+02 EXCESS= .0000E+00 OUTFLOW= .2227E+02 BASIN STORAGE= .8080E-05 PERCENT ERROR= .0

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FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P72cS  MANE         1.56     90.00    802.33       .31      5.00     90.00    750.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2045E+02 EXCESS= .0000E+00 OUTFLOW= .2045E+02 BASIN STORAGE= .8311E-05 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P72cS  MANE         1.67     90.00    753.60       .29      5.00     90.00    755.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1901E+02 EXCESS= .0000E+00 OUTFLOW= .1901E+02 BASIN STORAGE= .6988E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P72cS  MANE         1.67     90.00    769.19       .26      5.00     90.00    770.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1700E+02 EXCESS= .0000E+00 OUTFLOW= .1700E+02 BASIN STORAGE= .6801E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72cS  MANE         1.65     87.43    774.61       .24      5.00     87.42    775.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1605E+02 EXCESS= .0000E+00 OUTFLOW= .1606E+02 BASIN STORAGE= .6879E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76eS  MANE         2.01     76.00    710.25       .23      5.00     76.00    715.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7640E+02 EXCESS= .0000E+00 OUTFLOW= .7640E+02 BASIN STORAGE= .8523E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P76eS  MANE         1.88     76.00    808.77       .22      5.00     76.00    810.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7358E+02 EXCESS= .0000E+00 OUTFLOW= .7358E+02 BASIN STORAGE= .8534E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P76eS  MANE         1.88     76.00    802.96       .21      5.00     76.00    805.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7162E+02 EXCESS= .0000E+00 OUTFLOW= .7162E+02 BASIN STORAGE= .8534E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P76eS  MANE         1.98     76.00    797.67       .21      5.00     76.00    800.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6963E+02 EXCESS= .0000E+00 OUTFLOW= .6963E+02 BASIN STORAGE= .8534E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76eS  MANE         1.86     76.00    715.13       .21      5.00     76.00    720.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6892E+02 EXCESS= .0000E+00 OUTFLOW= .6892E+02 BASIN STORAGE= .8534E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P60eS  MANE         1.49     75.00    728.58       .74      5.00     75.00    730.00         .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2286E+02 EXCESS= .0000E+00 OUTFLOW= .2286E+02 BASIN STORAGE= .4392E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P60eS  MANE         1.47     75.00    728.30       .70      5.00     75.00    730.00         .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2171E+02 EXCESS= .0000E+00 OUTFLOW= .2172E+02 BASIN STORAGE= .5297E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P60eS  MANE         1.59     75.00    734.67       .68      5.00     75.00    735.00         .68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2088E+02 EXCESS= .0000E+00 OUTFLOW= .2089E+02 BASIN STORAGE= .4276E-05 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
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P60eS  MANE        1.60     75.00    734.74       .64      5.00     75.00    735.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1994E+02 EXCESS= .0000E+00 OUTFLOW= .1995E+02 BASIN STORAGE= .4343E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P60eS  MANE        1.56     75.00    734.39       .63      5.00     75.00    735.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1962E+02 EXCESS= .0000E+00 OUTFLOW= .1963E+02 BASIN STORAGE= .5183E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P68eS  MANE        1.77     63.00    724.90       .30      5.00     63.00    725.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3594E+02 EXCESS= .0000E+00 OUTFLOW= .3595E+02 BASIN STORAGE= .1929E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P68eS  MANE        1.71     63.00    877.46       .28      5.00     63.00    875.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3447E+02 EXCESS= .0000E+00 OUTFLOW= .3448E+02 BASIN STORAGE= .1773E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P68eS  MANE        1.74     63.00    724.09       .28      5.00     63.00    725.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3345E+02 EXCESS= .0000E+00 OUTFLOW= .3346E+02 BASIN STORAGE= .1986E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P68eS  MANE        1.87     63.00    725.09       .27      5.00     63.00    730.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3239E+02 EXCESS= .0000E+00 OUTFLOW= .3239E+02 BASIN STORAGE= .2040E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P68eS  MANE        1.71     63.00    862.79       .26      5.00     63.00    725.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3200E+02 EXCESS= .0000E+00 OUTFLOW= .3200E+02 BASIN STORAGE= .1997E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P72eS  MANE        1.40    195.00    743.09       .31      5.00    195.00    745.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5518E+02 EXCESS= .0000E+00 OUTFLOW= .5519E+02 BASIN STORAGE= .2176E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P72eS  MANE        1.25    195.00    742.71       .29      5.00    195.00    745.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5179E+02 EXCESS= .0000E+00 OUTFLOW= .5181E+02 BASIN STORAGE= .1962E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P72eS  MANE        1.28    195.00    748.04       .28      5.00    195.00    750.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4907E+02 EXCESS= .0000E+00 OUTFLOW= .4909E+02 BASIN STORAGE= .1928E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P72eS  MANE        1.39    195.00    758.53       .26      5.00    195.00    760.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4537E+02 EXCESS= .0000E+00 OUTFLOW= .4538E+02 BASIN STORAGE= .2349E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P72eS  MANE        1.29    195.00    763.68       .25      5.00    195.00    765.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4384E+02 EXCESS= .0000E+00 OUTFLOW= .4385E+02 BASIN STORAGE= .2087E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P72gS  MANE        1.82    178.00    729.48       .25      5.00    178.00    730.00         .25
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1028E+03 EXCESS= .0000E+00 OUTFLOW= .1028E+03 BASIN STORAGE= .7882E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P72gS  MANE        1.83    178.00    730.12       .24      5.00    178.00    735.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9844E+02 EXCESS= .0000E+00 OUTFLOW= .9845E+02 BASIN STORAGE= .8287E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P72gS  MANE        1.83    178.00    734.28       .23      5.00    178.00    735.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9529E+02 EXCESS= .0000E+00 OUTFLOW= .9530E+02 BASIN STORAGE= .7974E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P72gS  MANE        1.82    178.00    734.79       .22      5.00    178.00    735.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9181E+02 EXCESS= .0000E+00 OUTFLOW= .9182E+02 BASIN STORAGE= .7448E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P72gS  MANE        1.85    178.00    735.27       .22      5.00    178.00    740.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9051E+02 EXCESS= .0000E+00 OUTFLOW= .9052E+02 BASIN STORAGE= .8093E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P76gS  MANE        1.85     76.00    897.25       .14      5.00     76.00    720.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5401E+02 EXCESS= .0000E+00 OUTFLOW= .5401E+02 BASIN STORAGE= .6621E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P76gS  MANE        2.00     76.00    725.95       .13      5.00     76.00    730.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5284E+02 EXCESS= .0000E+00 OUTFLOW= .5285E+02 BASIN STORAGE= .6626E-04 PERCENT ERROR=

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P76gS  MANE        1.97     76.00    725.59       .13      5.00     76.00    730.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5194E+02 EXCESS= .0000E+00 OUTFLOW= .5194E+02 BASIN STORAGE= .6623E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P76gS  MANE        1.98     76.00    725.27       .13      5.00     76.00    730.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5098E+02 EXCESS= .0000E+00 OUTFLOW= .5098E+02 BASIN STORAGE= .6627E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P76gS  MANE        1.97     76.00    724.91       .13      5.00     76.00    725.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5062E+02 EXCESS= .0000E+00 OUTFLOW= .5062E+02 BASIN STORAGE= .6633E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P72iW  MANE        1.49     32.00    757.91       .05      5.00     32.00    755.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2245E+02 EXCESS= .0000E+00 OUTFLOW= .2245E+02 BASIN STORAGE= .1459E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P72iW  MANE        1.39     32.00    837.10       .05      5.00     32.00    840.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2163E+02 EXCESS= .0000E+00 OUTFLOW= .2163E+02 BASIN STORAGE= .1547E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P72iW  MANE        1.40     32.00    728.58       .05      5.00     32.00    730.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2103E+02 EXCESS= .0000E+00 OUTFLOW= .2103E+02 BASIN STORAGE= .1474E-04 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P72iW  MANE        1.44     32.00    822.45       .04      5.00     32.00    825.00        .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2039E+02 EXCESS= .0000E+00 OUTFLOW= .2039E+02 BASIN STORAGE= .1489E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72iW  MANE        1.42     32.00    728.24       .04      5.00     32.00    730.00        .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2015E+02 EXCESS= .0000E+00 OUTFLOW= .2015E+02 BASIN STORAGE= .1486E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76iS  MANE        1.11    106.00    717.56       .16      5.00    106.00    720.00        .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7745E+02 EXCESS= .0000E+00 OUTFLOW= .7745E+02 BASIN STORAGE= .1596E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P76iS  MANE        1.16    106.00    717.67       .15      5.00    106.00    720.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7437E+02 EXCESS= .0000E+00 OUTFLOW= .7437E+02 BASIN STORAGE= .1595E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P76iS  MANE        1.25    106.00    718.58       .15      5.00    106.00    720.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7167E+02 EXCESS= .0000E+00 OUTFLOW= .7167E+02 BASIN STORAGE= .1595E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P76iS  MANE        1.21    106.00    717.83       .14      5.00    106.00    720.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6817E+02 EXCESS= .0000E+00 OUTFLOW= .6817E+02 BASIN STORAGE= .1595E-03 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76iS  MANE        1.24    106.00    785.66       .14      5.00    106.00    785.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6694E+02 EXCESS= .0000E+00 OUTFLOW= .6694E+02 BASIN STORAGE= .3356E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56gS  MANE        1.51    130.00    733.53       .77      5.00    130.00    735.00        .77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3759E+02 EXCESS= .0000E+00 OUTFLOW= .3760E+02 BASIN STORAGE= .6808E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P56gS  MANE        1.38    130.00    733.52       .73      5.00    130.00    735.00        .73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3566E+02 EXCESS= .0000E+00 OUTFLOW= .3567E+02 BASIN STORAGE= .7458E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P56gS  MANE        1.45    130.00    737.97       .70      5.00    130.00    740.00        .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3427E+02 EXCESS= .0000E+00 OUTFLOW= .3428E+02 BASIN STORAGE= .8950E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P56gS  MANE        1.46    130.00    738.02       .67      5.00    130.00    740.00        .67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3277E+02 EXCESS= .0000E+00 OUTFLOW= .3278E+02 BASIN STORAGE= .6881E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P56gS  MANE        1.41    130.00    738.27       .66      5.00    130.00    740.00        .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3226E+02 EXCESS= .0000E+00 OUTFLOW= .3227E+02 BASIN STORAGE= .6586E-05 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P60gS  MANE         1.52    124.00    728.87       .47      5.00    124.00    730.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4590E+02 EXCESS= .0000E+00 OUTFLOW= .4591E+02 BASIN STORAGE= .1903E-04 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P60gS  MANE         1.58    124.00    728.39       .45      5.00    124.00    730.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4369E+02 EXCESS= .0000E+00 OUTFLOW= .4369E+02 BASIN STORAGE= .1883E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P60gS  MANE         1.47    124.00    728.02       .43      5.00    124.00    730.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4219E+02 EXCESS= .0000E+00 OUTFLOW= .4220E+02 BASIN STORAGE= .1732E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P60gS  MANE         1.52    124.00    728.55       .42      5.00    124.00    730.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4060E+02 EXCESS= .0000E+00 OUTFLOW= .4060E+02 BASIN STORAGE= .1867E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P60gS  MANE         1.53    124.00    728.57       .41      5.00    124.00    730.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4002E+02 EXCESS= .0000E+00 OUTFLOW= .4003E+02 BASIN STORAGE= .1834E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P64gS  MANE         1.45    153.00    743.39       .27      5.00    153.00    745.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4533E+02 EXCESS= .0000E+00 OUTFLOW= .4534E+02 BASIN STORAGE= .9228E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P64gS  MANE         1.45    153.00    743.65       .26      5.00    153.00    745.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4283E+02 EXCESS= .0000E+00 OUTFLOW= .4285E+02 BASIN STORAGE= .8987E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P64gS  MANE         1.55    153.00    754.57       .25      5.00    153.00    755.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4082E+02 EXCESS= .0000E+00 OUTFLOW= .4083E+02 BASIN STORAGE= .1113E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P64gS  MANE         1.54    153.00    758.85       .23      5.00    153.00    760.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3863E+02 EXCESS= .0000E+00 OUTFLOW= .3864E+02 BASIN STORAGE= .8896E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P64gS  MANE         1.45    153.00    763.61       .23      5.00    153.00    765.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3772E+02 EXCESS= .0000E+00 OUTFLOW= .3773E+02 BASIN STORAGE= .9976E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P68gS  MANE         1.83     82.00    724.52       .21      5.00     82.00    725.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4952E+02 EXCESS= .0000E+00 OUTFLOW= .4953E+02 BASIN STORAGE= .3625E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P68gS  MANE         1.71     82.00    893.19       .20      5.00     82.00    725.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4750E+02 EXCESS= .0000E+00 OUTFLOW= .4750E+02 BASIN STORAGE= .3469E-04 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P68gS  MANE         1.78     82.00    729.19       .19      5.00     82.00    730.00         .19
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4607E+02 EXCESS= .0000E+00 OUTFLOW= .4607E+02 BASIN STORAGE= .3601E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68gS  MANE         1.87     82.00    730.21       .18      5.00     82.00    735.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4454E+02 EXCESS= .0000E+00 OUTFLOW= .4454E+02 BASIN STORAGE= .3408E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68gS  MANE         1.79     82.00    730.32       .18      5.00     82.00    735.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4401E+02 EXCESS= .0000E+00 OUTFLOW= .4401E+02 BASIN STORAGE= .3214E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68iS  MANE         1.48     99.00    724.35       .12      5.00     99.00    725.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6715E+02 EXCESS= .0000E+00 OUTFLOW= .6715E+02 BASIN STORAGE= .9751E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P68iS  MANE         1.50     99.00    723.05       .11      5.00     99.00    725.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6450E+02 EXCESS= .0000E+00 OUTFLOW= .6450E+02 BASIN STORAGE= .9789E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P68iS  MANE         1.52     99.00    724.34       .11      5.00     99.00    725.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6263E+02 EXCESS= .0000E+00 OUTFLOW= .6263E+02 BASIN STORAGE= .9744E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68iS  MANE         1.56     99.00    729.67       .10      5.00     99.00    730.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6066E+02 EXCESS= .0000E+00 OUTFLOW= .6066E+02 BASIN STORAGE= .9734E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68iS  MANE         1.40     99.00    912.51       .10      5.00     99.00    730.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5995E+02 EXCESS= .0000E+00 OUTFLOW= .5995E+02 BASIN STORAGE= .9642E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P48iW  MANE         1.15     47.00    727.68       .16      5.00     47.00    730.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1509E+02 EXCESS= .0000E+00 OUTFLOW= .1508E+02 BASIN STORAGE= .1236E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P48iW  MANE         1.15     47.00    727.33       .16      5.00     47.00    730.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1427E+02 EXCESS= .0000E+00 OUTFLOW= .1427E+02 BASIN STORAGE= .1236E-11 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P48iW  MANE         1.11     47.00    727.34       .15      5.00     47.00    730.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1370E+02 EXCESS= .0000E+00 OUTFLOW= .1370E+02 BASIN STORAGE= .1236E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P48iW  MANE         1.12     47.00    732.51       .14      5.00     47.00    735.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1304E+02 EXCESS= .0000E+00 OUTFLOW= .1304E+02 BASIN STORAGE= .5964E-13 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P48iW  MANE         1.13     47.00    732.92       .14      5.00     47.00    735.00         .14
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1279E+02 EXCESS= .0000E+00 OUTFLOW= .1279E+02 BASIN STORAGE= .5869E-13 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P52iS  MANE        3.21     95.00    731.51       .37      5.00     95.00    735.00        .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4553E+02 EXCESS= .0000E+00 OUTFLOW= .4552E+02 BASIN STORAGE= .2797E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P52iS  MANE        3.22     95.00    733.67       .33      5.00     95.00    735.00        .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4043E+02 EXCESS= .0000E+00 OUTFLOW= .4044E+02 BASIN STORAGE= .2598E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P52iS  MANE        3.20     95.00    866.11       .30      5.00     95.00    865.00        .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3711E+02 EXCESS= .0000E+00 OUTFLOW= .3712E+02 BASIN STORAGE= .2653E-10 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P52iS  MANE        3.20     95.00    853.54       .28      5.00     95.00    850.00        .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3401E+02 EXCESS= .0000E+00 OUTFLOW= .3402E+02 BASIN STORAGE= .2639E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P52iS  MANE        3.27     95.00    733.31       .27      5.00     95.00    735.00        .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3299E+02 EXCESS= .0000E+00 OUTFLOW= .3299E+02 BASIN STORAGE= .2515E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          PARC40  MANE        3.25     46.93    786.51      1.56      5.00     45.87    785.00       1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8323E+01 EXCESS= .0000E+00 OUTFLOW= .8322E+01 BASIN STORAGE= .3387E-02 PERCENT ERROR=

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          PARC40  MANE        3.25     46.93    786.51      1.56      5.00     45.87    785.00       1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8323E+01 EXCESS= .0000E+00 OUTFLOW= .8322E+01 BASIN STORAGE= .3387E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          PARC40  MANE        3.25     46.93    786.51      1.56      5.00     45.87    785.00       1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8323E+01 EXCESS= .0000E+00 OUTFLOW= .8322E+01 BASIN STORAGE= .3387E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          PARC40  MANE        3.25     46.93    786.51      1.56      5.00     45.87    785.00       1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8323E+01 EXCESS= .0000E+00 OUTFLOW= .8322E+01 BASIN STORAGE= .3387E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          PARC40  MANE        3.25     46.93    786.51      1.56      5.00     45.87    785.00       1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8323E+01 EXCESS= .0000E+00 OUTFLOW= .8322E+01 BASIN STORAGE= .3387E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P36iS  MANE        3.37     41.00    825.80       .79      5.00     41.00    825.00        .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1428E+02 EXCESS= .0000E+00 OUTFLOW= .1428E+02 BASIN STORAGE= .1479E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P36iS  MANE        3.37     41.00    820.85       .76      5.00     41.00    820.00        .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1370E+02 EXCESS= .0000E+00 OUTFLOW= .1371E+02 BASIN STORAGE= .1473E-10 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P36iS  MANE        3.38     41.01    821.06       .74      5.00     41.01    820.00        .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1330E+02 EXCESS= .0000E+00 OUTFLOW= .1331E+02 BASIN STORAGE= .1504E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P36iS  MANE        3.38     41.00    730.02       .71      5.00     41.00    735.00        .71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1287E+02 EXCESS= .0000E+00 OUTFLOW= .1288E+02 BASIN STORAGE= .1448E-10 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P36iS  MANE        3.51     41.00    735.29       .70      5.00     41.00    740.00        .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1272E+02 EXCESS= .0000E+00 OUTFLOW= .1272E+02 BASIN STORAGE= .1436E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44iS  MANE        4.01     48.00    736.42       .30      5.00     48.00    740.00        .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1910E+02 EXCESS= .0000E+00 OUTFLOW= .1911E+02 BASIN STORAGE= .3495E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P44iS  MANE        3.90     48.00    736.54       .29      5.00     48.00    740.00        .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1804E+02 EXCESS= .0000E+00 OUTFLOW= .1804E+02 BASIN STORAGE= .3494E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P44iS  MANE        3.88     48.01    826.19       .27      5.00     48.01    825.00        .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1729E+02 EXCESS= .0000E+00 OUTFLOW= .1729E+02 BASIN STORAGE= .3495E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P44iS  MANE        3.91     48.00    740.85       .26      5.00     48.00    745.00        .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1654E+02 EXCESS= .0000E+00 OUTFLOW= .1655E+02 BASIN STORAGE= .2917E-10 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44iS  MANE        3.88     48.00    816.24       .26      5.00     48.00    815.00        .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1627E+02 EXCESS= .0000E+00 OUTFLOW= .1627E+02 BASIN STORAGE= .3009E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P54iS  MANE        3.96     68.00    735.64       .87      5.00     68.00    740.00        .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2044E+02 EXCESS= .0000E+00 OUTFLOW= .2044E+02 BASIN STORAGE= .3807E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P54iS  MANE        4.04     68.00    739.65       .83      5.00     68.00    740.00        .83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1952E+02 EXCESS= .0000E+00 OUTFLOW= .1952E+02 BASIN STORAGE= .3791E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P54iS  MANE        3.89     68.01    802.34       .80      5.00     68.01    800.00        .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1886E+02 EXCESS= .0000E+00 OUTFLOW= .1886E+02 BASIN STORAGE= .4024E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P54iS  MANE        3.96     68.00    740.09       .77      5.00     68.00    745.00        .77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1818E+02 EXCESS= .0000E+00 OUTFLOW= .1817E+02 BASIN STORAGE= .4287E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
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P54iS  MANE        3.95     68.00    741.03       .76      5.00     68.00    745.00        .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1793E+02 EXCESS= .0000E+00 OUTFLOW= .1793E+02 BASIN STORAGE= .3941E-10 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P56iS  MANE        1.73    204.00    728.75       .78      5.00    204.00    730.00        .78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6701E+02 EXCESS= .0000E+00 OUTFLOW= .6702E+02 BASIN STORAGE= .2722E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P56iS  MANE        1.75    204.00    728.51       .74      5.00    204.00    730.00        .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6400E+02 EXCESS= .0000E+00 OUTFLOW= .6402E+02 BASIN STORAGE= .2788E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P56iS  MANE        1.71    204.00    812.37       .72      5.00    204.00    810.00        .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6186E+02 EXCESS= .0000E+00 OUTFLOW= .6187E+02 BASIN STORAGE= .2774E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P56iS  MANE        1.72    204.00    734.12       .69      5.00    204.00    735.00        .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5952E+02 EXCESS= .0000E+00 OUTFLOW= .5952E+02 BASIN STORAGE= .2734E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P56iS  MANE        1.74    204.00    733.79       .68      5.00    204.00    735.00        .68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5868E+02 EXCESS= .0000E+00 OUTFLOW= .5869E+02 BASIN STORAGE= .2689E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P60iS1  MANE       1.65     68.00    723.98       .16      5.00     68.00    725.00        .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2602E+02 EXCESS= .0000E+00 OUTFLOW= .2602E+02 BASIN STORAGE= .1934E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P60iS1  MANE       1.65     68.00    728.44       .15      5.00     68.00    730.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2486E+02 EXCESS= .0000E+00 OUTFLOW= .2486E+02 BASIN STORAGE= .1949E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P60iS1  MANE       1.68     68.00    728.45       .15      5.00     68.00    730.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2404E+02 EXCESS= .0000E+00 OUTFLOW= .2404E+02 BASIN STORAGE= .1950E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P60iS1  MANE       1.72     68.00    729.66       .14      5.00     68.00    730.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2318E+02 EXCESS= .0000E+00 OUTFLOW= .2318E+02 BASIN STORAGE= .1937E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P60iS1  MANE       1.74     68.00    729.39       .14      5.00     68.00    730.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2287E+02 EXCESS= .0000E+00 OUTFLOW= .2287E+02 BASIN STORAGE= .1969E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P60iS2  MANE       1.52    143.00    723.73       .34      5.00    143.00    725.00        .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5471E+02 EXCESS= .0000E+00 OUTFLOW= .5471E+02 BASIN STORAGE= .3456E-06 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P60iS2  MANE       1.50    143.00    728.93       .32      5.00    143.00    730.00        .32
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5227E+02 EXCESS= .0000E+00 OUTFLOW= .5227E+02 BASIN STORAGE= .3459E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P60iS2  MANE        1.55    143.00    728.38       .31      5.00    143.00    730.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5055E+02 EXCESS= .0000E+00 OUTFLOW= .5055E+02 BASIN STORAGE= .3456E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P60iS2  MANE        1.38    143.00    826.65       .30      5.00    143.00    730.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4875E+02 EXCESS= .0000E+00 OUTFLOW= .4875E+02 BASIN STORAGE= .3467E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P60iS2  MANE        1.48    143.00    728.74       .30      5.00    143.00    730.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4809E+02 EXCESS= .0000E+00 OUTFLOW= .4809E+02 BASIN STORAGE= .3452E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60kE  MANE        2.78     10.00    721.56       .03      5.00     10.00    725.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5664E+01 EXCESS= .0000E+00 OUTFLOW= .5664E+01 BASIN STORAGE= .7211E-07 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P60kE  MANE        2.90     10.00    722.00       .03      5.00     10.00    725.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5429E+01 EXCESS= .0000E+00 OUTFLOW= .5429E+01 BASIN STORAGE= .7204E-07 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P60kE  MANE        2.89     10.00    720.85       .03      5.00     10.00    725.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5268E+01 EXCESS= .0000E+00 OUTFLOW= .5268E+01 BASIN STORAGE= .7115E-07 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P60kE  MANE        2.88     10.00    722.46       .03      5.00     10.00    725.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5101E+01 EXCESS= .0000E+00 OUTFLOW= .5101E+01 BASIN STORAGE= .7073E-07 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60kE  MANE        2.77     10.00    727.34       .03      5.00     10.00    730.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5041E+01 EXCESS= .0000E+00 OUTFLOW= .5041E+01 BASIN STORAGE= .7127E-07 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64iS  MANE        1.06    214.00    733.14       .30      5.00    214.00    735.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7704E+02 EXCESS= .0000E+00 OUTFLOW= .7704E+02 BASIN STORAGE= .1972E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P64iS  MANE        1.06    214.00    732.38       .29      5.00    214.00    735.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7352E+02 EXCESS= .0000E+00 OUTFLOW= .7352E+02 BASIN STORAGE= .1951E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P64iS  MANE        1.09    214.00    737.54       .28      5.00    214.00    740.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7088E+02 EXCESS= .0000E+00 OUTFLOW= .7088E+02 BASIN STORAGE= .2024E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P64iS  MANE        1.13    214.00    737.66       .27      5.00    214.00    740.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6791E+02 EXCESS= .0000E+00 OUTFLOW= .6791E+02 BASIN STORAGE= .1934E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P64iS  MANE          1.13    214.00    737.99        .26       5.00    214.00    740.00          .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6681E+02 EXCESS= .0000E+00 OUTFLOW= .6681E+02 BASIN STORAGE= .2018E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P72iS  MANE          1.90    226.00    728.85        .34       5.00    226.00    730.00          .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1586E+03 EXCESS= .0000E+00 OUTFLOW= .1586E+03 BASIN STORAGE= .3593E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =       10.00
   P72iS  MANE          1.97    226.00    730.46        .33       5.00    226.00    735.00          .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1527E+03 EXCESS= .0000E+00 OUTFLOW= .1527E+03 BASIN STORAGE= .3570E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       30.00
   P72iS  MANE          1.81    226.00    729.81        .32       5.00    226.00    730.00          .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1485E+03 EXCESS= .0000E+00 OUTFLOW= .1485E+03 BASIN STORAGE= .3582E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =       60.00
   P72iS  MANE          1.87    226.00    730.08        .31       5.00    226.00    735.00          .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1440E+03 EXCESS= .0000E+00 OUTFLOW= .1440E+03 BASIN STORAGE= .3566E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P72iS  MANE          1.84    226.00    729.84        .31       5.00    226.00    730.00          .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1423E+03 EXCESS= .0000E+00 OUTFLOW= .1423E+03 BASIN STORAGE= .3579E-05 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76kS  MANE          1.03    106.00    707.93        .08       5.00    106.00    710.00          .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7424E+02 EXCESS= .0000E+00 OUTFLOW= .7423E+02 BASIN STORAGE= .1956E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =       10.00
   P76kS  MANE           .87    106.00    707.20        .08       5.00    106.00    710.00          .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7018E+02 EXCESS= .0000E+00 OUTFLOW= .7018E+02 BASIN STORAGE= .1956E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       30.00
   P76kS  MANE           .95    106.00    712.43        .07       5.00    106.00    715.00          .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6718E+02 EXCESS= .0000E+00 OUTFLOW= .6718E+02 BASIN STORAGE= .1956E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =       60.00
   P76kS  MANE           .97    106.00    712.65        .07       5.00    106.00    715.00          .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6474E+02 EXCESS= .0000E+00 OUTFLOW= .6474E+02 BASIN STORAGE= .1956E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P76kS  MANE           .98    106.00    712.63        .07       5.00    106.00    715.00          .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6386E+02 EXCESS= .0000E+00 OUTFLOW= .6385E+02 BASIN STORAGE= .2560E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76lS  MANE          2.79    156.00    718.28        .37       5.00    156.00    720.00          .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9530E+02 EXCESS= .0000E+00 OUTFLOW= .9531E+02 BASIN STORAGE= .6486E-05 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P761S  MANE         2.73    156.00    716.05       .35      5.00    156.00    720.00         .35

NTINUITY SUMMARY (AC-FT) - INFLOW= .9043E+02 EXCESS= .0000E+00 OUTFLOW= .9044E+02 BASIN STORAGE= .6486E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P761S  MANE         2.78    156.00    715.72       .34      5.00    156.00    720.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8683E+02 EXCESS= .0000E+00 OUTFLOW= .8685E+02 BASIN STORAGE= .6487E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P761S  MANE         2.82    156.00    715.91       .32      5.00    156.00    720.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8376E+02 EXCESS= .0000E+00 OUTFLOW= .8377E+02 BASIN STORAGE= .6487E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P761S  MANE         2.79    156.00    716.75       .32      5.00    156.00    720.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8265E+02 EXCESS= .0000E+00 OUTFLOW= .8264E+02 BASIN STORAGE= .8647E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P72kS  MANE         1.46    281.00    733.09       .32      5.00    281.00    735.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2217E+03 EXCESS= .0000E+00 OUTFLOW= .2217E+03 BASIN STORAGE= .1132E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P72kS  MANE         1.39    281.00    733.61       .31      5.00    281.00    735.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2137E+03 EXCESS= .0000E+00 OUTFLOW= .2137E+03 BASIN STORAGE= .1131E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P72kS  MANE         1.36    281.00    733.64       .30      5.00    281.00    735.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2076E+03 EXCESS= .0000E+00 OUTFLOW= .2076E+03 BASIN STORAGE= .1131E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P72kS  MANE         1.43    281.00    739.07       .29      5.00    281.00    740.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2006E+03 EXCESS= .0000E+00 OUTFLOW= .2006E+03 BASIN STORAGE= .1130E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72kS  MANE         1.44    281.00    739.16       .29      5.00    281.00    740.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1981E+03 EXCESS= .0000E+00 OUTFLOW= .1981E+03 BASIN STORAGE= .5098E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P721S  MANE         2.15    305.00    735.23       .33      5.00    305.00    740.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2350E+03 EXCESS= .0000E+00 OUTFLOW= .2350E+03 BASIN STORAGE= .1818E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P721S  MANE         2.20    305.00    734.63       .32      5.00    305.00    735.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2265E+03 EXCESS= .0000E+00 OUTFLOW= .2265E+03 BASIN STORAGE= .1817E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P721S  MANE         2.22    305.00    736.51       .31      5.00    305.00    740.00         .31

NTINUITY SUMMARY (AC-FT) - INFLOW= .2200E+03 EXCESS= .0000E+00 OUTFLOW= .2200E+03 BASIN STORAGE= .1817E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P721S  MANE         2.24    305.00    736.46       .30      5.00    305.00    740.00         .30
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2127E+03 EXCESS= .0000E+00 OUTFLOW= .2127E+03 BASIN STORAGE= .1815E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P721S  MANE          2.25    305.00    736.02       .30      5.00    305.00    740.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2100E+03 EXCESS= .0000E+00 OUTFLOW= .2100E+03 BASIN STORAGE= .8221E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60kS  MANE          1.68    125.00    718.84       .40      5.00    125.00    720.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7080E+02 EXCESS= .0000E+00 OUTFLOW= .7080E+02 BASIN STORAGE= .5160E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P60kS  MANE          1.73    125.00    814.80       .39      5.00    125.00    815.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6786E+02 EXCESS= .0000E+00 OUTFLOW= .6786E+02 BASIN STORAGE= .5212E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P60kS  MANE          1.74    125.00    805.57       .38      5.00    125.00    810.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6585E+02 EXCESS= .0000E+00 OUTFLOW= .6584E+02 BASIN STORAGE= .5209E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P60kS  MANE          1.77    125.00    719.81       .36      5.00    125.00    720.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6377E+02 EXCESS= .0000E+00 OUTFLOW= .6377E+02 BASIN STORAGE= .5202E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P60kS  MANE          1.75    125.00    724.88       .36      5.00    125.00    725.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6301E+02 EXCESS= .0000E+00 OUTFLOW= .6301E+02 BASIN STORAGE= .5193E-06 PERCENT ERROR=

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64kS  MANE          1.61    214.00    738.72       .30      5.00    214.00    740.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1022E+03 EXCESS= .0000E+00 OUTFLOW= .1022E+03 BASIN STORAGE= .5768E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P64kS  MANE          1.70    214.00    739.07       .29      5.00    214.00    740.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9779E+02 EXCESS= .0000E+00 OUTFLOW= .9779E+02 BASIN STORAGE= .5767E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P64kS  MANE          1.73    214.00    744.75       .28      5.00    214.00    745.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9435E+02 EXCESS= .0000E+00 OUTFLOW= .9435E+02 BASIN STORAGE= .5774E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P64kS  MANE          1.60    214.00    743.84       .26      5.00    214.00    745.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9046E+02 EXCESS= .0000E+00 OUTFLOW= .9046E+02 BASIN STORAGE= .5766E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P64kS  MANE          1.77    214.00    745.30       .26      5.00    214.00    750.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8894E+02 EXCESS= .0000E+00 OUTFLOW= .8894E+02 BASIN STORAGE= .5771E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68kS  MANE          1.71    114.00    719.31       .11      5.00    114.00    720.00         .11
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .7768E+02 EXCESS= .0000E+00 OUTFLOW= .7767E+02 BASIN STORAGE= .1198E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P68kS  MANE        1.78    114.00    719.98       .11      5.00    114.00    720.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7464E+02 EXCESS= .0000E+00 OUTFLOW= .7464E+02 BASIN STORAGE= .1189E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P68kS  MANE        1.78    114.00    719.45       .11      5.00    114.00    720.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7247E+02 EXCESS= .0000E+00 OUTFLOW= .7246E+02 BASIN STORAGE= .1195E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68kS  MANE        1.64    114.00    719.63       .10      5.00    114.00    720.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7020E+02 EXCESS= .0000E+00 OUTFLOW= .7020E+02 BASIN STORAGE= .1184E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68kS  MANE        1.64    114.00    719.50       .10      5.00    114.00    720.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6936E+02 EXCESS= .0000E+00 OUTFLOW= .6936E+02 BASIN STORAGE= .1179E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68lS  MANE        2.99    114.00    718.47       .12      5.00    114.00    720.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8500E+02 EXCESS= .0000E+00 OUTFLOW= .8500E+02 BASIN STORAGE= .2231E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P68lS  MANE        3.12    114.00    716.29       .11      5.00    114.00    720.00         .11

NTINUITY SUMMARY (AC-FT) - INFLOW= .8155E+02 EXCESS= .0000E+00 OUTFLOW= .8156E+02 BASIN STORAGE= .2237E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P68lS  MANE        3.05    114.00    716.73       .11      5.00    114.00    720.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7924E+02 EXCESS= .0000E+00 OUTFLOW= .7925E+02 BASIN STORAGE= .2247E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68lS  MANE        3.04    114.00    721.37       .11      5.00    114.00    725.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7678E+02 EXCESS= .0000E+00 OUTFLOW= .7679E+02 BASIN STORAGE= .2231E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68lS  MANE        3.11    114.00    723.06       .10      5.00    114.00    725.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7588E+02 EXCESS= .0000E+00 OUTFLOW= .7589E+02 BASIN STORAGE= .2244E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P28kS  MANE        2.35    131.01    809.69       .96      5.00    131.00    730.00         .96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3694E+02 EXCESS= .0000E+00 OUTFLOW= .3694E+02 BASIN STORAGE= .3064E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P28kS  MANE        2.50    131.00    737.22       .93      5.00    131.00    740.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3568E+02 EXCESS= .0000E+00 OUTFLOW= .3568E+02 BASIN STORAGE= .3063E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P28kS  MANE        2.42    131.00    735.12       .91      5.00    131.00    740.00         .91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3476E+02 EXCESS= .0000E+00 OUTFLOW= .3476E+02 BASIN STORAGE= .3063E-02 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P28kS  MANE         2.45    131.00    735.94       .88      5.00    131.00    740.00         .88

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3379E+02 EXCESS= .0000E+00 OUTFLOW= .3379E+02 BASIN STORAGE= .3064E-02 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P28kS  MANE         2.44    131.00    736.54       .87      5.00    131.00    740.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3344E+02 EXCESS= .0000E+00 OUTFLOW= .3344E+02 BASIN STORAGE= .3064E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P32kS  MANE         3.43     45.00    728.85       .30      5.00     45.00    730.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1941E+02 EXCESS= .0000E+00 OUTFLOW= .1942E+02 BASIN STORAGE= .1536E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P32kS  MANE         3.40     45.00    836.51       .28      5.00     45.00    835.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1846E+02 EXCESS= .0000E+00 OUTFLOW= .1846E+02 BASIN STORAGE= .1653E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P32kS  MANE         3.42     45.00    734.96       .27      5.00     45.00    735.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1781E+02 EXCESS= .0000E+00 OUTFLOW= .1781E+02 BASIN STORAGE= .1647E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P32kS  MANE         3.43     45.00    732.37       .26      5.00     45.00    735.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1711E+02 EXCESS= .0000E+00 OUTFLOW= .1712E+02 BASIN STORAGE= .1655E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P32kS  MANE         3.41     45.00    733.59       .26      5.00     45.00    735.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1686E+02 EXCESS= .0000E+00 OUTFLOW= .1687E+02 BASIN STORAGE= .1524E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P36kS  MANE         3.15     59.00    724.05       .28      5.00     59.00    725.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3105E+02 EXCESS= .0000E+00 OUTFLOW= .3106E+02 BASIN STORAGE= .8936E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P36kS  MANE         3.29     59.00    723.96       .27      5.00     59.00    725.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2980E+02 EXCESS= .0000E+00 OUTFLOW= .2980E+02 BASIN STORAGE= .8960E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P36kS  MANE         3.25     59.00    728.74       .26      5.00     59.00    730.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2892E+02 EXCESS= .0000E+00 OUTFLOW= .2893E+02 BASIN STORAGE= .9206E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P36kS  MANE         3.26     59.00    726.54       .25      5.00     59.00    730.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2800E+02 EXCESS= .0000E+00 OUTFLOW= .2801E+02 BASIN STORAGE= .8970E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P36kS  MANE         3.17     59.00    727.54       .25      5.00     59.00    730.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2768E+02 EXCESS= .0000E+00 OUTFLOW= .2768E+02 BASIN STORAGE= .8903E-10 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
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P40kS  MANE        4.00     29.00    719.22       .13      5.00     29.00    720.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1954E+02 EXCESS= .0000E+00 OUTFLOW= .1954E+02 BASIN STORAGE= .8066E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P40kS  MANE        3.97     29.00    720.90       .12      5.00     29.00    725.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1827E+02 EXCESS= .0000E+00 OUTFLOW= .1827E+02 BASIN STORAGE= .8066E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P40kS  MANE        4.00     29.00    720.45       .12      5.00     29.00    725.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1741E+02 EXCESS= .0000E+00 OUTFLOW= .1741E+02 BASIN STORAGE= .8066E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P40kS  MANE        4.01     29.00    725.11       .11      5.00     29.00    730.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1662E+02 EXCESS= .0000E+00 OUTFLOW= .1662E+02 BASIN STORAGE= .2206E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P40kS  MANE        3.99     29.00    726.52       .11      5.00     29.00    730.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1643E+02 EXCESS= .0000E+00 OUTFLOW= .1644E+02 BASIN STORAGE= .1984E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P44kS  MANE        3.56     71.00    725.22       .20      5.00     71.00    730.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4136E+02 EXCESS= .0000E+00 OUTFLOW= .4137E+02 BASIN STORAGE= .3305E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P44kS  MANE        3.39     71.00    879.99       .19      5.00     71.00    880.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3952E+02 EXCESS= .0000E+00 OUTFLOW= .3952E+02 BASIN STORAGE= .3306E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P44kS  MANE        3.54     71.00    724.71       .18      5.00     71.00    725.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3825E+02 EXCESS= .0000E+00 OUTFLOW= .3826E+02 BASIN STORAGE= .3304E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P44kS  MANE        3.41     71.00    724.98       .18      5.00     71.00    725.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3699E+02 EXCESS= .0000E+00 OUTFLOW= .3700E+02 BASIN STORAGE= .1542E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P44kS  MANE        3.48     71.00    723.31       .17      5.00     71.00    725.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3656E+02 EXCESS= .0000E+00 OUTFLOW= .3656E+02 BASIN STORAGE= .1581E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P28mS  MANE        2.58    211.00    740.62       .79      5.00    211.00    745.00         .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7333E+02 EXCESS= .0000E+00 OUTFLOW= .7335E+02 BASIN STORAGE= .3706E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P28mS  MANE        2.65    211.00    735.34       .76      5.00    211.00    740.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7029E+02 EXCESS= .0000E+00 OUTFLOW= .7031E+02 BASIN STORAGE= .3707E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P28mS  MANE        2.58    211.01    823.75       .74      5.00    211.00    745.00         .74
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .6824E+02 EXCESS= .0000E+00 OUTFLOW= .6824E+02 BASIN STORAGE= .3704E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P28mS  MANE         2.58    211.05    819.93       .71      5.00    211.00    745.00         .71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6592E+02 EXCESS= .0000E+00 OUTFLOW= .6594E+02 BASIN STORAGE= .3704E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P28mS  MANE         2.64    211.00    741.33       .71      5.00    211.00    745.00         .71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6510E+02 EXCESS= .0000E+00 OUTFLOW= .6510E+02 BASIN STORAGE= .3704E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P32mS  MANE         2.68     66.00    721.57       .26      5.00     66.00    725.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3747E+02 EXCESS= .0000E+00 OUTFLOW= .3747E+02 BASIN STORAGE= .6854E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P32mS  MANE         2.70     66.00    721.26       .24      5.00     66.00    725.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3584E+02 EXCESS= .0000E+00 OUTFLOW= .3584E+02 BASIN STORAGE= .6854E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P32mS  MANE         2.78     66.00    722.00       .24      5.00     66.00    725.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3473E+02 EXCESS= .0000E+00 OUTFLOW= .3473E+02 BASIN STORAGE= .6854E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P32mS  MANE         2.66     66.00    727.32       .23      5.00     66.00    730.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3355E+02 EXCESS= .0000E+00 OUTFLOW= .3355E+02 BASIN STORAGE= .6854E-06 PERCENT ERROR=

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P32mS  MANE         2.68     66.00    725.55       .23      5.00     66.00    730.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3312E+02 EXCESS= .0000E+00 OUTFLOW= .3312E+02 BASIN STORAGE= .6854E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P36mS  MANE         2.77    114.00    728.00       .26      5.00    114.00    730.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5697E+02 EXCESS= .0000E+00 OUTFLOW= .5698E+02 BASIN STORAGE= .2291E-09 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P36mS  MANE         2.80    114.00    730.75       .25      5.00    114.00    735.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5466E+02 EXCESS= .0000E+00 OUTFLOW= .5466E+02 BASIN STORAGE= .2337E-09 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P36mS  MANE         2.72    114.00    731.64       .24      5.00    114.00    735.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5303E+02 EXCESS= .0000E+00 OUTFLOW= .5303E+02 BASIN STORAGE= .2385E-09 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P36mS  MANE         2.73    114.00    732.94       .23      5.00    114.00    735.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5133E+02 EXCESS= .0000E+00 OUTFLOW= .5133E+02 BASIN STORAGE= .2393E-09 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P36mS  MANE         2.84    114.00    732.15       .23      5.00    114.00    735.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5070E+02 EXCESS= .0000E+00 OUTFLOW= .5071E+02 BASIN STORAGE= .2365E-09 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P40mS  MANE        2.35     66.00    716.30       .15      5.00     66.00    720.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4291E+02 EXCESS= .0000E+00 OUTFLOW= .4291E+02 BASIN STORAGE= .5380E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P40mS  MANE        2.34     66.00    722.00       .14      5.00     66.00    725.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4073E+02 EXCESS= .0000E+00 OUTFLOW= .4073E+02 BASIN STORAGE= .5380E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P40mS  MANE        2.32     66.00    721.45       .14      5.00     66.00    725.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3923E+02 EXCESS= .0000E+00 OUTFLOW= .3923E+02 BASIN STORAGE= .5380E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P40mS  MANE        2.36     66.00    721.04       .13      5.00     66.00    725.00        .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3780E+02 EXCESS= .0000E+00 OUTFLOW= .3780E+02 BASIN STORAGE= .6449E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P40mS  MANE        2.39     66.00    720.23       .13      5.00     66.00    725.00        .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3738E+02 EXCESS= .0000E+00 OUTFLOW= .3738E+02 BASIN STORAGE= .5782E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44mS  MANE         .71    124.00    721.70       .18      5.00    124.00    725.00        .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6842E+02 EXCESS= .0000E+00 OUTFLOW= .6841E+02 BASIN STORAGE= .7231E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P44mS  MANE         .73    124.00    721.78       .18      5.00    124.00    725.00        .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6555E+02 EXCESS= .0000E+00 OUTFLOW= .6554E+02 BASIN STORAGE= .7233E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P44mS  MANE         .75    124.00    721.95       .17      5.00    124.00    725.00        .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6356E+02 EXCESS= .0000E+00 OUTFLOW= .6356E+02 BASIN STORAGE= .7235E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P44mS  MANE         .76    124.00    721.88       .17      5.00    124.00    725.00        .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6155E+02 EXCESS= .0000E+00 OUTFLOW= .6155E+02 BASIN STORAGE= .5708E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44mS  MANE         .76    124.00    721.92       .16      5.00    124.00    725.00        .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6085E+02 EXCESS= .0000E+00 OUTFLOW= .6085E+02 BASIN STORAGE= .5820E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52kS  MANE        2.46    201.00    730.21       .29      5.00    201.00    735.00        .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9065E+02 EXCESS= .0000E+00 OUTFLOW= .9066E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P52kS  MANE        2.34    201.00    735.34       .27      5.00    201.00    740.00        .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8342E+02 EXCESS= .0000E+00 OUTFLOW= .8342E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P52kS  MANE         2.39    201.00    735.21       .25      5.00    201.00    740.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7852E+02 EXCESS= .0000E+00 OUTFLOW= .7853E+02 BASIN STORAGE= .9877E-06 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P52kS  MANE         2.44    201.00    737.21       .24      5.00    201.00    740.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7386E+02 EXCESS= .0000E+00 OUTFLOW= .7387E+02 BASIN STORAGE= .9877E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52kS  MANE         2.30    201.00    858.18       .23      5.00    201.00    740.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7229E+02 EXCESS= .0000E+00 OUTFLOW= .7230E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P54kS  MANE         2.94    124.00    736.74       .72      5.00    124.00    740.00         .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4513E+02 EXCESS= .0000E+00 OUTFLOW= .4515E+02 BASIN STORAGE= .1544E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P54kS  MANE         3.04    124.00    736.11       .69      5.00    124.00    740.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4310E+02 EXCESS= .0000E+00 OUTFLOW= .4311E+02 BASIN STORAGE= .1559E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P54kS  MANE         2.89    124.00    742.02       .66      5.00    124.00    745.00         .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4169E+02 EXCESS= .0000E+00 OUTFLOW= .4170E+02 BASIN STORAGE= .1627E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P54kS  MANE         2.89    124.00    742.88       .64      5.00    124.00    745.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4020E+02 EXCESS= .0000E+00 OUTFLOW= .4020E+02 BASIN STORAGE= .1761E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P54kS  MANE         2.91    124.00    741.26       .63      5.00    124.00    745.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3964E+02 EXCESS= .0000E+00 OUTFLOW= .3966E+02 BASIN STORAGE= .1601E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56kS  MANE         3.49    303.00    732.22       .47      5.00    303.00    735.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1115E+03 EXCESS= .0000E+00 OUTFLOW= .1115E+03 BASIN STORAGE= .7394E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P56kS  MANE         3.46    303.00    733.71       .45      5.00    303.00    735.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1067E+03 EXCESS= .0000E+00 OUTFLOW= .1067E+03 BASIN STORAGE= .7465E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P56kS  MANE         3.45    303.00    734.11       .43      5.00    303.00    735.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1033E+03 EXCESS= .0000E+00 OUTFLOW= .1033E+03 BASIN STORAGE= .7429E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P56kS  MANE         3.47    303.00    737.91       .42      5.00    303.00    740.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9963E+02 EXCESS= .0000E+00 OUTFLOW= .9965E+02 BASIN STORAGE= .7368E-06 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P56kS  MANE         3.44    303.00    739.32       .41      5.00    303.00    740.00         .41
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .9826E+02 EXCESS= .0000E+00 OUTFLOW= .9828E+02 BASIN STORAGE= .7209E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P601S  MANE        3.33     93.00    713.30       .28      5.00     93.00    715.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6951E+02 EXCESS= .0000E+00 OUTFLOW= .6952E+02 BASIN STORAGE= .1041E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P601S  MANE        3.43     93.00    712.62       .27      5.00     93.00    715.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6669E+02 EXCESS= .0000E+00 OUTFLOW= .6669E+02 BASIN STORAGE= .1042E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P601S  MANE        3.31     93.00    716.92       .26      5.00     93.00    720.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6473E+02 EXCESS= .0000E+00 OUTFLOW= .6473E+02 BASIN STORAGE= .1034E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P601S  MANE        3.40     93.00    719.23       .25      5.00     93.00    720.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6273E+02 EXCESS= .0000E+00 OUTFLOW= .6273E+02 BASIN STORAGE= .1039E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P601S  MANE        3.45     93.00    717.63       .25      5.00     93.00    720.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6201E+02 EXCESS= .0000E+00 OUTFLOW= .6202E+02 BASIN STORAGE= .1042E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P641S  MANE        2.46    303.00    850.15       .31      5.00    303.00    855.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1165E+03 EXCESS= .0000E+00 OUTFLOW= .1165E+03 BASIN STORAGE= .3185E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P641S  MANE        2.62    263.20    891.99       .28      5.00    263.04    890.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1054E+03 EXCESS= .0000E+00 OUTFLOW= .1054E+03 BASIN STORAGE= .3185E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P641S  MANE        2.71    214.00    752.21       .26      5.00    214.00    755.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9673E+02 EXCESS= .0000E+00 OUTFLOW= .9673E+02 BASIN STORAGE= .3186E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P641S  MANE        2.73    214.00    750.53       .24      5.00    214.00    755.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9046E+02 EXCESS= .0000E+00 OUTFLOW= .9046E+02 BASIN STORAGE= .9512E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P641S  MANE        2.78    214.00    757.97       .24      5.00    214.00    760.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8893E+02 EXCESS= .0000E+00 OUTFLOW= .8894E+02 BASIN STORAGE= .9516E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P72mS  MANE        3.18    308.00    714.34       .33      5.00    308.00    715.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3043E+03 EXCESS= .0000E+00 OUTFLOW= .3043E+03 BASIN STORAGE= .3480E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P72mS  MANE        3.21    308.00    711.79       .32      5.00    308.00    715.00         .32
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2921E+03 EXCESS= .0000E+00 OUTFLOW= .2921E+03 BASIN STORAGE= .3479E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P72mS  MANE          3.27    308.00    713.38        .31       5.00    308.00    715.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2833E+03 EXCESS= .0000E+00 OUTFLOW= .2833E+03 BASIN STORAGE= .3481E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P72mS  MANE          3.28    308.00    718.40        .30       5.00    308.00    720.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2741E+03 EXCESS= .0000E+00 OUTFLOW= .2742E+03 BASIN STORAGE= .3478E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P72mS  MANE          3.26    308.00    716.88        .30       5.00    308.00    720.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2709E+03 EXCESS= .0000E+00 OUTFLOW= .2709E+03 BASIN STORAGE= .1336E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P28oS  MANE          1.03    367.00    737.80        .79       5.00    367.00    740.00         .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1146E+03 EXCESS= .0000E+00 OUTFLOW= .1146E+03 BASIN STORAGE= .1532E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P28oS  MANE          1.10    367.00    743.04        .75       5.00    367.00    745.00         .75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1095E+03 EXCESS= .0000E+00 OUTFLOW= .1095E+03 BASIN STORAGE= .1532E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P28oS  MANE          1.11    367.00    742.42        .73       5.00    367.00    745.00         .73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1058E+03 EXCESS= .0000E+00 OUTFLOW= .1058E+03 BASIN STORAGE= .1532E-02 PERCENT ERROR=

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P28oS  MANE          1.01    367.00    742.65        .70       5.00    367.00    745.00         .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1017E+03 EXCESS= .0000E+00 OUTFLOW= .1017E+03 BASIN STORAGE= .1532E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P28oS  MANE           .98    367.00    747.42        .69       5.00    367.00    750.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1001E+03 EXCESS= .0000E+00 OUTFLOW= .1001E+03 BASIN STORAGE= .1532E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P32oS  MANE          1.13    160.00    727.98        .31       5.00    160.00    730.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7130E+02 EXCESS= .0000E+00 OUTFLOW= .7130E+02 BASIN STORAGE= .3319E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P32oS  MANE          1.14    160.00    727.38        .30       5.00    160.00    730.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6825E+02 EXCESS= .0000E+00 OUTFLOW= .6825E+02 BASIN STORAGE= .3319E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P32oS  MANE          1.16    160.00    727.37        .29       5.00    160.00    730.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6612E+02 EXCESS= .0000E+00 OUTFLOW= .6612E+02 BASIN STORAGE= .3319E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P32oS  MANE          1.18    160.00    728.36        .28       5.00    160.00    730.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6382E+02 EXCESS= .0000E+00 OUTFLOW= .6382E+02 BASIN STORAGE= .3319E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P32oS  MANE         1.16    160.00    733.33       .28      5.00    160.00    735.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6294E+02 EXCESS= .0000E+00 OUTFLOW= .6294E+02 BASIN STORAGE= .3319E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P32pW  MANE         1.05    379.00    752.63       .45      5.00    379.00    755.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1168E+03 EXCESS= .0000E+00 OUTFLOW= .1168E+03 BASIN STORAGE= .1476E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P32pW  MANE         1.03    379.00    752.38       .42      5.00    379.00    755.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1082E+03 EXCESS= .0000E+00 OUTFLOW= .1082E+03 BASIN STORAGE= .1390E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P32pW  MANE         1.14    379.00    758.40       .40      5.00    379.00    760.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1026E+03 EXCESS= .0000E+00 OUTFLOW= .1026E+03 BASIN STORAGE= .1476E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P32pW  MANE         1.05    379.00    757.70       .37      5.00    379.00    760.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9649E+02 EXCESS= .0000E+00 OUTFLOW= .9650E+02 BASIN STORAGE= .1390E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P32pW  MANE         1.06    379.00    757.67       .36      5.00    379.00    760.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9414E+02 EXCESS= .0000E+00 OUTFLOW= .9414E+02 BASIN STORAGE= .1476E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P28pS  MANE         1.44    211.00    728.70       .52      5.00    211.00    730.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8567E+02 EXCESS= .0000E+00 OUTFLOW= .8566E+02 BASIN STORAGE= .1574E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P28pS  MANE         1.47    211.00    734.25       .50      5.00    211.00    735.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8222E+02 EXCESS= .0000E+00 OUTFLOW= .8222E+02 BASIN STORAGE= .1573E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P28pS  MANE         1.48    211.00    733.50       .48      5.00    211.00    735.00         .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7980E+02 EXCESS= .0000E+00 OUTFLOW= .7980E+02 BASIN STORAGE= .1575E-02 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P28pS  MANE         1.41    211.00    733.71       .47      5.00    211.00    735.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7725E+02 EXCESS= .0000E+00 OUTFLOW= .7725E+02 BASIN STORAGE= .1481E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P28pS  MANE         1.39    211.00    734.08       .46      5.00    211.00    735.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7632E+02 EXCESS= .0000E+00 OUTFLOW= .7632E+02 BASIN STORAGE= .1574E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P32qW  MANE          .74     32.00    751.95       .34      5.00     32.00    755.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1818E+02 EXCESS= .0000E+00 OUTFLOW= .1818E+02 BASIN STORAGE= .1010E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
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P32qW  MANE          .75     32.00    751.66       .32      5.00     32.00    755.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1686E+02 EXCESS= .0000E+00 OUTFLOW= .1685E+02 BASIN STORAGE= .1010E-05 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P32qW  MANE          .75     32.00    756.93       .30      5.00     32.00    760.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1595E+02 EXCESS= .0000E+00 OUTFLOW= .1595E+02 BASIN STORAGE= .1010E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P32qW  MANE          .75     32.00    757.17       .28      5.00     32.00    760.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1496E+02 EXCESS= .0000E+00 OUTFLOW= .1496E+02 BASIN STORAGE= .1011E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P32qW  MANE          .80     32.00    756.85       .28      5.00     32.00    760.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1461E+02 EXCESS= .0000E+00 OUTFLOW= .1461E+02 BASIN STORAGE= .1010E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P36oS  MANE          .48    139.00    721.34       .23      5.00    139.00    725.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7594E+02 EXCESS= .0000E+00 OUTFLOW= .7594E+02 BASIN STORAGE= .5668E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P36oS  MANE          .49    139.00    721.15       .22      5.00    139.00    725.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7287E+02 EXCESS= .0000E+00 OUTFLOW= .7286E+02 BASIN STORAGE= .5849E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P36oS  MANE          .50    139.00    721.42       .22      5.00    139.00    725.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7075E+02 EXCESS= .0000E+00 OUTFLOW= .7075E+02 BASIN STORAGE= .5905E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P36oS  MANE          .51    139.00    721.28       .21      5.00    139.00    725.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6856E+02 EXCESS= .0000E+00 OUTFLOW= .6856E+02 BASIN STORAGE= .6009E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P36oS  MANE          .51    139.00    721.13       .21      5.00    139.00    725.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6776E+02 EXCESS= .0000E+00 OUTFLOW= .6776E+02 BASIN STORAGE= .5927E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P36pW  MANE         1.15    474.00    747.87       .50      5.00    474.00    750.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1857E+03 EXCESS= .0000E+00 OUTFLOW= .1857E+03 BASIN STORAGE= .4561E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P36pW  MANE         1.05    474.00    747.39       .47      5.00    474.00    750.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1723E+03 EXCESS= .0000E+00 OUTFLOW= .1723E+03 BASIN STORAGE= .4561E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P36pW  MANE         1.06    474.00    747.85       .44      5.00    474.00    750.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1636E+03 EXCESS= .0000E+00 OUTFLOW= .1636E+03 BASIN STORAGE= .4563E-05 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P36pW  MANE         1.11    474.00    752.51       .42      5.00    474.00    755.00         .42
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1556E+03 EXCESS= .0000E+00 OUTFLOW= .1556E+03 BASIN STORAGE= .2967E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P36pW  MANE         1.10    474.00    753.04       .41      5.00    474.00    755.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1527E+03 EXCESS= .0000E+00 OUTFLOW= .1527E+03 BASIN STORAGE= .2967E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P40oS  MANE         1.66     70.00    709.03       .13      5.00     70.00    710.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5389E+02 EXCESS= .0000E+00 OUTFLOW= .5388E+02 BASIN STORAGE= .3907E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P40oS  MANE         1.71     70.00    714.52       .12      5.00     70.00    715.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5127E+02 EXCESS= .0000E+00 OUTFLOW= .5127E+02 BASIN STORAGE= .3908E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P40oS  MANE         1.72     70.00    713.94       .12      5.00     70.00    715.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4949E+02 EXCESS= .0000E+00 OUTFLOW= .4949E+02 BASIN STORAGE= .3907E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P40oS  MANE         1.75     70.00    715.03       .11      5.00     70.00    720.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4777E+02 EXCESS= .0000E+00 OUTFLOW= .4777E+02 BASIN STORAGE= .9270E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P40oS  MANE         1.76     70.00    715.01       .11      5.00     70.00    720.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4725E+02 EXCESS= .0000E+00 OUTFLOW= .4725E+02 BASIN STORAGE= .8276E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P40pW  MANE         1.04    785.00    747.81       .63      5.00    785.00    750.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2966E+03 EXCESS= .0000E+00 OUTFLOW= .2966E+03 BASIN STORAGE= .6945E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P40pW  MANE         1.06    785.00    748.03       .59      5.00    785.00    750.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2764E+03 EXCESS= .0000E+00 OUTFLOW= .2764E+03 BASIN STORAGE= .6945E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P40pW  MANE         1.08    785.00    753.03       .56      5.00    785.00    755.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2624E+03 EXCESS= .0000E+00 OUTFLOW= .2624E+03 BASIN STORAGE= .6945E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P40pW  MANE         1.09    785.00    758.27       .53      5.00    785.00    760.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2490E+03 EXCESS= .0000E+00 OUTFLOW= .2490E+03 BASIN STORAGE= .3218E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P40pW  MANE         1.09    785.00    757.55       .52      5.00    785.00    760.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2440E+03 EXCESS= .0000E+00 OUTFLOW= .2440E+03 BASIN STORAGE= .3217E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P44oS  MANE         3.35    124.00    722.47       .15      5.00    124.00    725.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7667E+02 EXCESS= .0000E+00 OUTFLOW= .7668E+02 BASIN STORAGE= .3345E-05 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =       10.00
   P44oS  MANE          3.43    124.00    728.50        .14       5.00    124.00    730.00          .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7364E+02 EXCESS= .0000E+00 OUTFLOW= .7365E+02 BASIN STORAGE= .3553E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       30.00
   P44oS  MANE          3.33    124.00    728.98        .14       5.00    124.00    730.00          .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7152E+02 EXCESS= .0000E+00 OUTFLOW= .7153E+02 BASIN STORAGE= .3345E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =       60.00
   P44oS  MANE          3.35    124.00    729.66        .13       5.00    124.00    730.00          .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6936E+02 EXCESS= .0000E+00 OUTFLOW= .6937E+02 BASIN STORAGE= .4661E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P44oS  MANE          3.31    124.00    728.00        .13       5.00    124.00    730.00          .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6860E+02 EXCESS= .0000E+00 OUTFLOW= .6861E+02 BASIN STORAGE= .4726E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44pW  MANE           .72   1220.00    761.51        .73       5.00   1220.00    765.00          .73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4328E+03 EXCESS= .0000E+00 OUTFLOW= .4328E+03 BASIN STORAGE= .5878E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =       10.00
   P44pW  MANE           .75   1220.00    766.81        .68       5.00   1220.00    770.00          .68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4048E+03 EXCESS= .0000E+00 OUTFLOW= .4048E+03 BASIN STORAGE= .5878E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       30.00
   P44pW  MANE           .76   1220.00    776.64        .65       5.00   1220.00    780.00          .65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3837E+03 EXCESS= .0000E+00 OUTFLOW= .3837E+03 BASIN STORAGE= .5878E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =       60.00
   P44pW  MANE           .77   1220.00    781.72        .61       5.00   1220.00    785.00          .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3626E+03 EXCESS= .0000E+00 OUTFLOW= .3626E+03 BASIN STORAGE= .2313E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P44pW  MANE           .77   1220.00    786.78        .60       5.00   1220.00    790.00          .60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3543E+03 EXCESS= .0000E+00 OUTFLOW= .3543E+03 BASIN STORAGE= .2311E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52mS  MANE          3.90    364.00    733.64        .25       5.00    364.00    735.00          .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1634E+03 EXCESS= .0000E+00 OUTFLOW= .1634E+03 BASIN STORAGE= .2956E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =       10.00
   P52mS  MANE          3.86    364.00    735.17        .24       5.00    364.00    740.00          .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1538E+03 EXCESS= .0000E+00 OUTFLOW= .1538E+03 BASIN STORAGE= .3140E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       30.00
   P52mS  MANE          3.80    364.05    890.81        .23       5.00    364.04    890.00          .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1473E+03 EXCESS= .0000E+00 OUTFLOW= .1473E+03 BASIN STORAGE= .2956E-05 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P52mS  MANE         3.82    364.00    739.42       .22      5.00    364.00    740.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1408E+03 EXCESS= .0000E+00 OUTFLOW= .1408E+03 BASIN STORAGE= .3141E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52mS  MANE         3.88    364.00    740.85       .21      5.00    364.00    745.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1386E+03 EXCESS= .0000E+00 OUTFLOW= .1387E+03 BASIN STORAGE= .2956E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P54mS  MANE         3.67    124.01    881.19       .63      5.00    124.01    880.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5596E+02 EXCESS= .0000E+00 OUTFLOW= .5596E+02 BASIN STORAGE= .4742E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P54mS  MANE         3.72    124.00    728.84       .61      5.00    124.00    730.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5357E+02 EXCESS= .0000E+00 OUTFLOW= .5357E+02 BASIN STORAGE= .4869E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P54mS  MANE         3.78    124.00    728.12       .59      5.00    124.00    730.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5190E+02 EXCESS= .0000E+00 OUTFLOW= .5191E+02 BASIN STORAGE= .5014E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P54mS  MANE         3.77    124.00    729.17       .57      5.00    124.00    730.00         .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5015E+02 EXCESS= .0000E+00 OUTFLOW= .5015E+02 BASIN STORAGE= .5298E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P54mS  MANE         3.70    124.00    730.41       .56      5.00    124.00    735.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4949E+02 EXCESS= .0000E+00 OUTFLOW= .4951E+02 BASIN STORAGE= .5030E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52oW  MANE         1.12    517.00    743.19      1.16      5.00    517.00    745.00        1.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1419E+03 EXCESS= .0000E+00 OUTFLOW= .1419E+03 BASIN STORAGE= .3089E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P52oW  MANE         1.26    517.00    748.59      1.07      5.00    517.00    750.00        1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1307E+03 EXCESS= .0000E+00 OUTFLOW= .1307E+03 BASIN STORAGE= .3170E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P52oW  MANE         1.12    507.80    747.18      1.01      5.00    507.33    750.00        1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1234E+03 EXCESS= .0000E+00 OUTFLOW= .1234E+03 BASIN STORAGE= .3242E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P52oW  MANE         1.25    482.80    747.31       .95      5.00    482.05    750.00         .95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1163E+03 EXCESS= .0000E+00 OUTFLOW= .1163E+03 BASIN STORAGE= .3280E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52oW  MANE         1.14    474.86    747.39       .93      5.00    473.42    750.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1137E+03 EXCESS= .0000E+00 OUTFLOW= .1137E+03 BASIN STORAGE= .3253E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56mS  MANE         2.77    433.00    736.97       .54      5.00    433.00    740.00         .54
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1573E+03 EXCESS= .0000E+00 OUTFLOW= .1573E+03 BASIN STORAGE= .6951E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P56mS  MANE         2.74    433.00    741.85       .51      5.00    433.00    745.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1505E+03 EXCESS= .0000E+00 OUTFLOW= .1505E+03 BASIN STORAGE= .6666E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P56mS  MANE         2.81    433.00    743.14       .50      5.00    433.00    745.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1456E+03 EXCESS= .0000E+00 OUTFLOW= .1456E+03 BASIN STORAGE= .6867E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P56mS  MANE         2.85    433.00    743.39       .48      5.00    433.00    745.00         .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1403E+03 EXCESS= .0000E+00 OUTFLOW= .1403E+03 BASIN STORAGE= .6845E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56mS  MANE         2.77    433.00    741.29       .47      5.00    433.00    745.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1382E+03 EXCESS= .0000E+00 OUTFLOW= .1383E+03 BASIN STORAGE= .6927E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P56oW  MANE         1.04    950.00    737.89       .91      5.00    950.00    740.00         .91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3313E+03 EXCESS= .0000E+00 OUTFLOW= .3313E+03 BASIN STORAGE= .2858E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P56oW  MANE         1.06    950.00    738.10       .87      5.00    950.00    740.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3152E+03 EXCESS= .0000E+00 OUTFLOW= .3152E+03 BASIN STORAGE= .2787E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P56oW  MANE         1.06    950.00    737.66       .84      5.00    950.00    740.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3034E+03 EXCESS= .0000E+00 OUTFLOW= .3033E+03 BASIN STORAGE= .2880E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P56oW  MANE         1.07    950.00    742.67       .80      5.00    950.00    745.00         .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2913E+03 EXCESS= .0000E+00 OUTFLOW= .2913E+03 BASIN STORAGE= .2840E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56oW  MANE         1.05    950.00    742.91       .79      5.00    950.00    745.00         .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2867E+03 EXCESS= .0000E+00 OUTFLOW= .2867E+03 BASIN STORAGE= .2867E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60mS  MANE         3.70    124.00    724.61       .26      5.00    124.00    725.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8702E+02 EXCESS= .0000E+00 OUTFLOW= .8702E+02 BASIN STORAGE= .1267E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P60mS  MANE         3.63    124.00    723.15       .25      5.00    124.00    725.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8357E+02 EXCESS= .0000E+00 OUTFLOW= .8358E+02 BASIN STORAGE= .1256E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P60mS  MANE         3.64    124.00    727.51       .24      5.00    124.00    730.00         .24
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .8120E+02 EXCESS= .0000E+00 OUTFLOW= .8121E+02 BASIN STORAGE= .1260E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P60mS  MANE        3.65    124.00    728.64       .24      5.00    124.00    730.00        .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7875E+02 EXCESS= .0000E+00 OUTFLOW= .7876E+02 BASIN STORAGE= .1269E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60mS  MANE        3.73    124.00    730.08       .23      5.00    124.00    735.00        .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7787E+02 EXCESS= .0000E+00 OUTFLOW= .7787E+02 BASIN STORAGE= .1243E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64mS  MANE        3.04    399.00    736.13       .42      5.00    399.00    740.00        .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2117E+03 EXCESS= .0000E+00 OUTFLOW= .2117E+03 BASIN STORAGE= .4112E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P64mS  MANE        3.10    399.00    738.62       .40      5.00    399.00    740.00        .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2016E+03 EXCESS= .0000E+00 OUTFLOW= .2016E+03 BASIN STORAGE= .4112E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P64mS  MANE        3.01    399.00    742.31       .38      5.00    399.00    745.00        .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1915E+03 EXCESS= .0000E+00 OUTFLOW= .1915E+03 BASIN STORAGE= .4113E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P64mS  MANE        3.10    399.00    743.62       .36      5.00    399.00    745.00        .36

NTINUITY SUMMARY (AC-FT) - INFLOW= .1824E+03 EXCESS= .0000E+00 OUTFLOW= .1824E+03 BASIN STORAGE= .1229E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64mS  MANE        3.08    399.00    741.55       .35      5.00    399.00    745.00        .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1798E+03 EXCESS= .0000E+00 OUTFLOW= .1798E+03 BASIN STORAGE= .1229E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68mS  MANE        4.62    144.00    731.35       .12      5.00    144.00    730.00        .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9958E+02 EXCESS= .0000E+00 OUTFLOW= .9959E+02 BASIN STORAGE= .3814E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P68mS  MANE        4.63    144.12    973.72       .11      5.00    144.02    970.00        .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9551E+02 EXCESS= .0000E+00 OUTFLOW= .9553E+02 BASIN STORAGE= .3839E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P68mS  MANE        4.73    144.00    727.41       .11      5.00    144.00    730.00        .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9269E+02 EXCESS= .0000E+00 OUTFLOW= .9270E+02 BASIN STORAGE= .3776E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68mS  MANE        4.78    144.00    728.20       .10      5.00    144.00    730.00        .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8977E+02 EXCESS= .0000E+00 OUTFLOW= .8978E+02 BASIN STORAGE= .3755E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68mS  MANE        4.75    144.00    724.94       .10      5.00    144.00    725.00        .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8868E+02 EXCESS= .0000E+00 OUTFLOW= .8870E+02 BASIN STORAGE= .3863E-05 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT72oE  MANE          .93    699.47    821.69       .20      5.00    699.03    820.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1923E+03 EXCESS= .0000E+00 OUTFLOW= .1923E+03 BASIN STORAGE= .6950E-11 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  PT72oE  MANE         1.11    633.56    827.24       .18      5.00    633.40    830.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1734E+03 EXCESS= .0000E+00 OUTFLOW= .1734E+03 BASIN STORAGE= .6241E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  PT72oE  MANE         1.05    605.43    826.41       .17      5.00    605.39    825.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1611E+03 EXCESS= .0000E+00 OUTFLOW= .1612E+03 BASIN STORAGE= .6763E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  PT72oE  MANE          .98    580.87    826.94       .16      5.00    580.69    825.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1478E+03 EXCESS= .0000E+00 OUTFLOW= .1479E+03 BASIN STORAGE= .7311E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  PT72oE  MANE         1.12    571.09    826.70       .15      5.00    570.97    825.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1428E+03 EXCESS= .0000E+00 OUTFLOW= .1429E+03 BASIN STORAGE= .1487E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT68oE  MANE          .33   1642.01    820.69       .50      5.00   1641.68    825.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4962E+03 EXCESS= .0000E+00 OUTFLOW= .4962E+03 BASIN STORAGE= .1540E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  PT68oE  MANE          .31   1564.94    810.55       .45      5.00   1564.68    810.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4465E+03 EXCESS= .0000E+00 OUTFLOW= .4465E+03 BASIN STORAGE= .1541E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  PT68oE  MANE          .37   1493.95    800.36       .42      5.00   1493.85    800.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4102E+03 EXCESS= .0000E+00 OUTFLOW= .4102E+03 BASIN STORAGE= .1540E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  PT68oE  MANE          .38   1412.92    800.05       .38      5.00   1412.91    800.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3736E+03 EXCESS= .0000E+00 OUTFLOW= .3736E+03 BASIN STORAGE= .1540E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  PT68oE  MANE          .38   1384.01    800.02       .37      5.00   1384.00    800.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3606E+03 EXCESS= .0000E+00 OUTFLOW= .3606E+03 BASIN STORAGE= .1541E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT60oW  MANE          .86   1761.00    767.16      1.31      5.00   1761.00    770.00        1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5695E+03 EXCESS= .0000E+00 OUTFLOW= .5695E+03 BASIN STORAGE= .7159E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  PT60oW  MANE          .95   1761.00    787.42      1.23      5.00   1761.00    790.00        1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5337E+03 EXCESS= .0000E+00 OUTFLOW= .5337E+03 BASIN STORAGE= .7043E-06 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
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PT60oW  MANE          .97   1697.70    791.86      1.16      5.00   1696.18    795.00        1.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5047E+03 EXCESS= .0000E+00 OUTFLOW= .5047E+03 BASIN STORAGE= .7094E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
PT60oW  MANE          .99   1598.36    792.39      1.09      5.00   1597.44    795.00        1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4752E+03 EXCESS= .0000E+00 OUTFLOW= .4752E+03 BASIN STORAGE= .7098E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT60oW  MANE          .98   1564.62    796.03      1.07      5.00   1564.61    795.00        1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4647E+03 EXCESS= .0000E+00 OUTFLOW= .4647E+03 BASIN STORAGE= .7134E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
PT64o   MANE         1.04   4517.69    821.90      1.31      5.00   4513.32    820.00        1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1473E+04 EXCESS= .0000E+00 OUTFLOW= .1473E+04 BASIN STORAGE= .2823E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
PT64o   MANE         1.22   4179.90    811.22      1.18      5.00   4178.24    810.00        1.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1322E+04 EXCESS= .0000E+00 OUTFLOW= .1322E+04 BASIN STORAGE= .2824E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
PT64o   MANE         1.23   3975.93    801.02      1.09      5.00   3975.25    800.00        1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1223E+04 EXCESS= .0000E+00 OUTFLOW= .1223E+04 BASIN STORAGE= .2824E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
PT64o   MANE         1.10   3747.58    801.65      1.01      5.00   3745.65    800.00        1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+04 EXCESS= .0000E+00 OUTFLOW= .1129E+04 BASIN STORAGE= .1323E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT64o   MANE         1.10   3669.72    802.10       .98      5.00   3666.57    800.00         .98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1097E+04 EXCESS= .0000E+00 OUTFLOW= .1097E+04 BASIN STORAGE= .1323E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P36pS   MANE         2.48    139.00    751.35       .15      5.00    139.00    755.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5447E+02 EXCESS= .0000E+00 OUTFLOW= .5447E+02 BASIN STORAGE= .3034E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P36pS   MANE         2.40    139.00    751.38       .14      5.00    139.00    755.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5052E+02 EXCESS= .0000E+00 OUTFLOW= .5053E+02 BASIN STORAGE= .3035E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P36pS   MANE         2.41    139.00    752.08       .13      5.00    139.00    755.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4796E+02 EXCESS= .0000E+00 OUTFLOW= .4797E+02 BASIN STORAGE= .3034E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P36pS   MANE         2.45    139.00    756.39       .12      5.00    139.00    760.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4564E+02 EXCESS= .0000E+00 OUTFLOW= .4564E+02 BASIN STORAGE= .2096E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P36pS   MANE         2.39    139.00    755.19       .12      5.00    139.00    760.00         .12
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4478E+02 EXCESS= .0000E+00 OUTFLOW= .4479E+02 BASIN STORAGE= .2096E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P40qW  MANE        2.24     32.00    706.29       .17      5.00     32.00    710.00        .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1720E+02 EXCESS= .0000E+00 OUTFLOW= .1720E+02 BASIN STORAGE= .1565E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P40qW  MANE        2.32     32.00    706.04       .16      5.00     32.00    710.00        .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1643E+02 EXCESS= .0000E+00 OUTFLOW= .1643E+02 BASIN STORAGE= .1492E-11 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P40qW  MANE        2.17     32.00    709.67       .16      5.00     32.00    710.00        .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1590E+02 EXCESS= .0000E+00 OUTFLOW= .1590E+02 BASIN STORAGE= .1498E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P40qW  MANE        2.18     32.00    709.98       .15      5.00     32.00    710.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1538E+02 EXCESS= .0000E+00 OUTFLOW= .1538E+02 BASIN STORAGE= .1563E-11 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P40qW  MANE        2.20     32.00    711.42       .15      5.00     32.00    715.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1520E+02 EXCESS= .0000E+00 OUTFLOW= .1520E+02 BASIN STORAGE= .1571E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P44pS  MANE        2.23    124.00    764.96       .07      5.00    124.00    765.00        .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4399E+02 EXCESS= .0000E+00 OUTFLOW= .4400E+02 BASIN STORAGE= .1869E-05 PERCENT ERROR=

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P44pS  MANE        2.25    124.00    771.52       .07      5.00    124.00    775.00        .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4114E+02 EXCESS= .0000E+00 OUTFLOW= .4114E+02 BASIN STORAGE= .1869E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P44pS  MANE        2.22    124.00    781.63       .07      5.00    124.00    785.00        .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3900E+02 EXCESS= .0000E+00 OUTFLOW= .3901E+02 BASIN STORAGE= .1869E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P44pS  MANE        2.20    124.00    786.09       .06      5.00    124.00    790.00        .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3685E+02 EXCESS= .0000E+00 OUTFLOW= .3686E+02 BASIN STORAGE= .6918E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P44pS  MANE        2.19    124.00    789.91       .06      5.00    124.00    790.00        .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3601E+02 EXCESS= .0000E+00 OUTFLOW= .3602E+02 BASIN STORAGE= .6918E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64qW  MANE        1.81     68.00    714.14       .37      5.00     68.00    715.00        .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2940E+02 EXCESS= .0000E+00 OUTFLOW= .2941E+02 BASIN STORAGE= .4269E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P64qW  MANE        1.89     68.00    719.78       .35      5.00     68.00    720.00        .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2809E+02 EXCESS= .0000E+00 OUTFLOW= .2809E+02 BASIN STORAGE= .4828E-11 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P64qW  MANE        1.86     68.00    719.42       .34      5.00     68.00    720.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2727E+02 EXCESS= .0000E+00 OUTFLOW= .2727E+02 BASIN STORAGE= .4344E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P64qW  MANE        1.87     68.00    719.71       .33      5.00     68.00    720.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2646E+02 EXCESS= .0000E+00 OUTFLOW= .2646E+02 BASIN STORAGE= .2103E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P64qW  MANE        1.81     68.00    719.22       .33      5.00     68.00    720.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2617E+02 EXCESS= .0000E+00 OUTFLOW= .2618E+02 BASIN STORAGE= .2403E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P68qW  MANE        2.50     68.00    711.53       .42      5.00     68.00    715.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4049E+02 EXCESS= .0000E+00 OUTFLOW= .4049E+02 BASIN STORAGE= .2224E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P68qW  MANE        2.40     68.00    715.08       .40      5.00     68.00    720.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3879E+02 EXCESS= .0000E+00 OUTFLOW= .3879E+02 BASIN STORAGE= .2553E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P68qW  MANE        2.45     68.00    716.96       .39      5.00     68.00    720.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3767E+02 EXCESS= .0000E+00 OUTFLOW= .3767E+02 BASIN STORAGE= .2320E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P68qW  MANE        2.48     68.00    716.67       .38      5.00     68.00    720.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3656E+02 EXCESS= .0000E+00 OUTFLOW= .3656E+02 BASIN STORAGE= .1833E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P68qW  MANE        2.45     68.00    715.78       .38      5.00     68.00    720.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3616E+02 EXCESS= .0000E+00 OUTFLOW= .3616E+02 BASIN STORAGE= .2021E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P72oS  MANE        1.73    433.00    724.90       .39      5.00    433.00    725.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3688E+03 EXCESS= .0000E+00 OUTFLOW= .3687E+03 BASIN STORAGE= .1836E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P72oS  MANE        1.59    433.00    724.14       .37      5.00    433.00    725.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3545E+03 EXCESS= .0000E+00 OUTFLOW= .3545E+03 BASIN STORAGE= .1836E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P72oS  MANE        1.60    433.00    723.94       .36      5.00    433.00    725.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3442E+03 EXCESS= .0000E+00 OUTFLOW= .3442E+03 BASIN STORAGE= .1836E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P72oS  MANE        1.64    433.00    724.67       .35      5.00    433.00    725.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3334E+03 EXCESS= .0000E+00 OUTFLOW= .3334E+03 BASIN STORAGE= .1835E-04 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72oS  MANE          1.66    433.00    724.10       .35      5.00    433.00    725.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3296E+03 EXCESS= .0000E+00 OUTFLOW= .3295E+03 BASIN STORAGE= .7078E-05 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P84mS  MANE          .89    249.00    731.87      3.76      5.00    249.00    735.00        3.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5872E+02 EXCESS= .0000E+00 OUTFLOW= .5872E+02 BASIN STORAGE= .1535E-12 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P84mS  MANE          .92    249.00    731.94      3.57      5.00    249.00    735.00        3.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5578E+02 EXCESS= .0000E+00 OUTFLOW= .5578E+02 BASIN STORAGE= .1533E-12 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P84mS  MANE          .94    249.00    732.24      3.44      5.00    249.00    735.00        3.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5377E+02 EXCESS= .0000E+00 OUTFLOW= .5377E+02 BASIN STORAGE= .1558E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P84mS  MANE          .95    249.00    737.81      3.30      5.00    249.00    740.00        3.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5162E+02 EXCESS= .0000E+00 OUTFLOW= .5162E+02 BASIN STORAGE= .1545E-12 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P84mS  MANE          .97    249.00    737.41      3.25      5.00    249.00    740.00        3.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5085E+02 EXCESS= .0000E+00 OUTFLOW= .5085E+02 BASIN STORAGE= .1574E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76mS  MANE         5.00     32.00    940.50       .06      5.00     32.00    940.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2278E+02 EXCESS= .0000E+00 OUTFLOW= .2278E+02 BASIN STORAGE= .3313E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P76mS  MANE         5.00     32.00    723.28       .06      5.00     32.00    725.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2170E+02 EXCESS= .0000E+00 OUTFLOW= .2170E+02 BASIN STORAGE= .3314E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P76mS  MANE         5.00     32.00    736.34       .06      5.00     32.00    735.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2096E+02 EXCESS= .0000E+00 OUTFLOW= .2097E+02 BASIN STORAGE= .3313E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P76mS  MANE         5.00     32.00    737.98       .06      5.00     32.00    740.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2031E+02 EXCESS= .0000E+00 OUTFLOW= .2031E+02 BASIN STORAGE= .3312E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76mS  MANE         5.00     32.00    886.96       .06      5.00     32.00    745.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2007E+02 EXCESS= .0000E+00 OUTFLOW= .2007E+02 BASIN STORAGE= .4563E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76oS  MANE         1.99    229.00    724.64       .29      5.00    229.00    725.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1214E+03 EXCESS= .0000E+00 OUTFLOW= .1214E+03 BASIN STORAGE= .1838E-05 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P76oS  MANE         2.10    229.00    823.08       .28      5.00    229.00    825.00         .28
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1173E+03 EXCESS= .0000E+00 OUTFLOW= .1173E+03 BASIN STORAGE= .1838E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P76oS  MANE        2.01    229.00    768.00       .27      5.00    229.00    770.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1144E+03 EXCESS= .0000E+00 OUTFLOW= .1144E+03 BASIN STORAGE= .1838E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P76oS  MANE        2.05    229.00    803.39       .26      5.00    229.00    805.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1115E+03 EXCESS= .0000E+00 OUTFLOW= .1115E+03 BASIN STORAGE= .1838E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P76oS  MANE        2.08    229.00    779.05       .26      5.00    229.00    850.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1105E+03 EXCESS= .0000E+00 OUTFLOW= .1105E+03 BASIN STORAGE= .2586E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P80oS  MANE        2.89    249.00    717.64       .52      5.00    249.00    720.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1820E+03 EXCESS= .0000E+00 OUTFLOW= .1819E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P80oS  MANE        2.86    249.00    722.95       .50      5.00    249.00    725.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1752E+03 EXCESS= .0000E+00 OUTFLOW= .1752E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P80oS  MANE        2.90    249.00    721.20       .49      5.00    249.00    725.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1710E+03 EXCESS= .0000E+00 OUTFLOW= .1710E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P80oS  MANE        2.87    249.00    722.95       .47      5.00    249.00    725.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1666E+03 EXCESS= .0000E+00 OUTFLOW= .1666E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P80oS  MANE        2.90    249.00    721.18       .47      5.00    249.00    725.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1651E+03 EXCESS= .0000E+00 OUTFLOW= .1651E+03 BASIN STORAGE= .6490E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P80pS  MANE        3.01    249.00    720.95       .45      5.00    249.00    725.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1993E+03 EXCESS= .0000E+00 OUTFLOW= .1993E+03 BASIN STORAGE= .1746E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P80pS  MANE        3.03    249.00    718.21       .43      5.00    249.00    720.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1918E+03 EXCESS= .0000E+00 OUTFLOW= .1918E+03 BASIN STORAGE= .1758E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P80pS  MANE        3.12    249.00    722.91       .42      5.00    249.00    725.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1870E+03 EXCESS= .0000E+00 OUTFLOW= .1871E+03 BASIN STORAGE= .1737E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P80pS  MANE        3.05    249.00    721.14       .41      5.00    249.00    725.00         .41
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1822E+03 EXCESS= .0000E+00 OUTFLOW= .1822E+03 BASIN STORAGE= .1747E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P80pS  MANE          3.08    249.00    722.90       .41      5.00    249.00    725.00        .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1805E+03 EXCESS= .0000E+00 OUTFLOW= .1805E+03 BASIN STORAGE= .7726E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P28qS  MANE          1.14    308.00    770.28      2.39      5.00    308.00    770.00       2.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1044E+03 EXCESS= .0000E+00 OUTFLOW= .1044E+03 BASIN STORAGE= .1302E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P28qS  MANE          1.18    308.00    727.67      2.29      5.00    308.00    730.00       2.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1002E+03 EXCESS= .0000E+00 OUTFLOW= .1002E+03 BASIN STORAGE= .1302E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P28qS  MANE          1.18    308.00    727.72      2.22      5.00    308.00    730.00       2.22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9725E+02 EXCESS= .0000E+00 OUTFLOW= .9725E+02 BASIN STORAGE= .1302E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P28qS  MANE          1.25    308.00    732.73      2.15      5.00    308.00    735.00       2.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9410E+02 EXCESS= .0000E+00 OUTFLOW= .9410E+02 BASIN STORAGE= .1302E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P28qS  MANE          1.16    308.00    732.39      2.13      5.00    308.00    735.00       2.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9293E+02 EXCESS= .0000E+00 OUTFLOW= .9294E+02 BASIN STORAGE= .1302E-02 PERCENT ERROR=

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P32sW  MANE           .84     48.00    857.95       .23      5.00     48.00    755.00        .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1644E+02 EXCESS= .0000E+00 OUTFLOW= .1644E+02 BASIN STORAGE= .1174E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P32sW  MANE          2.00     48.00    755.52       .22      5.00     48.00    760.00        .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1564E+02 EXCESS= .0000E+00 OUTFLOW= .1563E+02 BASIN STORAGE= .8517E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P32sW  MANE           .84     48.00    852.93       .22      5.00     48.00    760.00        .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1517E+02 EXCESS= .0000E+00 OUTFLOW= .1517E+02 BASIN STORAGE= .1174E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P32sW  MANE          2.01     48.00    760.26       .21      5.00     48.00    765.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1459E+02 EXCESS= .0000E+00 OUTFLOW= .1458E+02 BASIN STORAGE= .8517E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P32sW  MANE          1.95     48.00    760.81       .20      5.00     48.00    765.00        .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1435E+02 EXCESS= .0000E+00 OUTFLOW= .1436E+02 BASIN STORAGE= .8516E-05 PERCENT ERROR=   -.1

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P36qS  MANE          1.03    295.00    733.05      1.17      5.00    295.00    735.00       1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9745E+02 EXCESS= .0000E+00 OUTFLOW= .9745E+02 BASIN STORAGE= .1299E-05 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P36qS  MANE          1.05    295.00    732.49      1.08      5.00    295.00    735.00        1.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8964E+02 EXCESS= .0000E+00 OUTFLOW= .8963E+02 BASIN STORAGE= .1299E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P36qS  MANE           .90    295.00    737.49      1.02      5.00    295.00    740.00        1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8447E+02 EXCESS= .0000E+00 OUTFLOW= .8447E+02 BASIN STORAGE= .1299E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P36qS  MANE           .90    295.00    737.44       .96      5.00    295.00    740.00         .96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7953E+02 EXCESS= .0000E+00 OUTFLOW= .7953E+02 BASIN STORAGE= .8971E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P36qS  MANE           .89    295.00    737.01       .93      5.00    295.00    740.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7777E+02 EXCESS= .0000E+00 OUTFLOW= .7777E+02 BASIN STORAGE= .8976E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P40sW  MANE          2.04     68.00    719.27       .18      5.00     68.00    720.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2798E+02 EXCESS= .0000E+00 OUTFLOW= .2798E+02 BASIN STORAGE= .6579E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P40sW  MANE          2.00     68.00    720.46       .17      5.00     68.00    725.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2671E+02 EXCESS= .0000E+00 OUTFLOW= .2672E+02 BASIN STORAGE= .1261E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P40sW  MANE          2.04     68.00    720.27       .17      5.00     68.00    725.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2585E+02 EXCESS= .0000E+00 OUTFLOW= .2586E+02 BASIN STORAGE= .5958E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P40sW  MANE          1.93     68.00    719.67       .16      5.00     68.00    720.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2498E+02 EXCESS= .0000E+00 OUTFLOW= .2499E+02 BASIN STORAGE= .3895E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P40sW  MANE          1.92     68.00    719.27       .16      5.00     68.00    720.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2468E+02 EXCESS= .0000E+00 OUTFLOW= .2468E+02 BASIN STORAGE= .3299E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44qS  MANE          1.32    201.00    723.11       .67      5.00    201.00    725.00         .67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9166E+02 EXCESS= .0000E+00 OUTFLOW= .9166E+02 BASIN STORAGE= .1232E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P44qS  MANE          1.44    201.00    723.71       .64      5.00    201.00    725.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8713E+02 EXCESS= .0000E+00 OUTFLOW= .8712E+02 BASIN STORAGE= .1232E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P44qS  MANE          1.28    201.01    852.22       .61      5.00    201.00    725.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8405E+02 EXCESS= .0000E+00 OUTFLOW= .8405E+02 BASIN STORAGE= .1232E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
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P44qS  MANE        1.30    201.00    728.04       .59      5.00    201.00    730.00        .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8104E+02 EXCESS= .0000E+00 OUTFLOW= .8105E+02 BASIN STORAGE= .4562E-06 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P44qS  MANE        1.32    201.00    728.12       .58      5.00    201.00    730.00        .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7997E+02 EXCESS= .0000E+00 OUTFLOW= .7997E+02 BASIN STORAGE= .4562E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P52qS  MANE         .84    191.00    732.26      2.15      5.00    191.00    735.00       2.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4472E+02 EXCESS= .0000E+00 OUTFLOW= .4472E+02 BASIN STORAGE= .5388E-13 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P52qS  MANE         .86    191.00    732.25      2.04      5.00    191.00    735.00       2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4252E+02 EXCESS= .0000E+00 OUTFLOW= .4251E+02 BASIN STORAGE= .5309E-13 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P52qS  MANE         .86    191.00    737.36      1.97      5.00    191.00    740.00       1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4101E+02 EXCESS= .0000E+00 OUTFLOW= .4101E+02 BASIN STORAGE= .5286E-13 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P52qS  MANE         .82    191.00    736.81      1.90      5.00    191.00    740.00       1.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3943E+02 EXCESS= .0000E+00 OUTFLOW= .3943E+02 BASIN STORAGE= .5280E-13 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P52qS  MANE         .82    191.00    737.25      1.87      5.00    191.00    740.00       1.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3886E+02 EXCESS= .0000E+00 OUTFLOW= .3886E+02 BASIN STORAGE= .5395E-13 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P56qS  MANE        1.85     68.00    724.72       .53      5.00     68.00    725.00        .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2115E+02 EXCESS= .0000E+00 OUTFLOW= .2115E+02 BASIN STORAGE= .1168E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P56qS  MANE        1.90     68.00    724.34       .51      5.00     68.00    725.00        .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2036E+02 EXCESS= .0000E+00 OUTFLOW= .2036E+02 BASIN STORAGE= .1172E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P56qS  MANE        1.75     68.00    817.75       .50      5.00     68.00    725.00        .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1982E+02 EXCESS= .0000E+00 OUTFLOW= .1982E+02 BASIN STORAGE= .1200E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P56qS  MANE        1.79     68.00    725.22       .48      5.00     68.00    730.00        .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1925E+02 EXCESS= .0000E+00 OUTFLOW= .1926E+02 BASIN STORAGE= .1204E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P56qS  MANE        1.88     68.00    725.04       .48      5.00     68.00    730.00        .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1905E+02 EXCESS= .0000E+00 OUTFLOW= .1905E+02 BASIN STORAGE= .1168E-11 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P60qS  MANE        1.28    281.00    748.37       .74      5.00    281.00    750.00        .74
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4322E+02 EXCESS= .0000E+00 OUTFLOW= .4323E+02 BASIN STORAGE= .7980E-12 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P60qS  MANE         1.21    281.00    763.22       .68      5.00    281.00    765.00         .68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3991E+02 EXCESS= .0000E+00 OUTFLOW= .3992E+02 BASIN STORAGE= .7914E-12 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P60qS  MANE         1.32    261.02    762.62       .63      5.00    260.53    765.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3717E+02 EXCESS= .0000E+00 OUTFLOW= .3718E+02 BASIN STORAGE= .7961E-12 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P60qS  MANE         1.26    238.84    762.85       .59      5.00    238.22    765.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3440E+02 EXCESS= .0000E+00 OUTFLOW= .3441E+02 BASIN STORAGE= .8091E-12 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60qS  MANE         1.34    231.15    763.24       .57      5.00    230.64    765.00         .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3343E+02 EXCESS= .0000E+00 OUTFLOW= .3343E+02 BASIN STORAGE= .7874E-12 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60sW  MANE          .58    217.00    721.57       .63      5.00    217.00    725.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6297E+02 EXCESS= .0000E+00 OUTFLOW= .6297E+02 BASIN STORAGE= .1264E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P60sW  MANE          .64    217.00    721.47       .60      5.00    217.00    725.00         .60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5989E+02 EXCESS= .0000E+00 OUTFLOW= .5989E+02 BASIN STORAGE= .1252E-11 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P60sW  MANE          .66    217.00    721.50       .58      5.00    217.00    725.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5810E+02 EXCESS= .0000E+00 OUTFLOW= .5810E+02 BASIN STORAGE= .1260E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P60sW  MANE          .71    217.00    726.59       .56      5.00    217.00    730.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5620E+02 EXCESS= .0000E+00 OUTFLOW= .5619E+02 BASIN STORAGE= .1281E-11 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60sW  MANE          .71    217.00    726.67       .56      5.00    217.00    730.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5546E+02 EXCESS= .0000E+00 OUTFLOW= .5546E+02 BASIN STORAGE= .1245E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72qS1  MANE         1.38    433.00    728.86      1.76      5.00    433.00    730.00        1.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2940E+03 EXCESS= .0000E+00 OUTFLOW= .2940E+03 BASIN STORAGE= .1061E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P72qS1  MANE         1.39    433.00    728.64      1.69      5.00    433.00    730.00        1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2824E+03 EXCESS= .0000E+00 OUTFLOW= .2824E+03 BASIN STORAGE= .1061E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72qS1  MANE         1.41    433.00    733.28      1.64      5.00    433.00    735.00        1.64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2742E+03 EXCESS= .0000E+00 OUTFLOW= .2742E+03 BASIN STORAGE= .1061E-04 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  P72qS1  MANE        1.27    433.00    732.96      1.59      5.00    433.00    735.00        1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2657E+03 EXCESS= .0000E+00 OUTFLOW= .2657E+03 BASIN STORAGE= .1061E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P72qS1  MANE        1.28    433.00    733.26      1.57      5.00    433.00    735.00        1.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2627E+03 EXCESS= .0000E+00 OUTFLOW= .2627E+03 BASIN STORAGE= .4108E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P72qS2  MANE        1.63    229.00    729.08       .93      5.00    229.00    730.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1555E+03 EXCESS= .0000E+00 OUTFLOW= .1555E+03 BASIN STORAGE= .6494E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  P72qS2  MANE        1.51    229.00    729.30       .89      5.00    229.00    730.00         .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1493E+03 EXCESS= .0000E+00 OUTFLOW= .1493E+03 BASIN STORAGE= .6496E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  P72qS2  MANE        1.55    229.00    733.66       .87      5.00    229.00    735.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1450E+03 EXCESS= .0000E+00 OUTFLOW= .1450E+03 BASIN STORAGE= .6493E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  P72qS2  MANE        1.55    229.00    733.47       .84      5.00    229.00    735.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1405E+03 EXCESS= .0000E+00 OUTFLOW= .1405E+03 BASIN STORAGE= .6494E-05 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P72qS2  MANE        1.57    229.00    733.83       .83      5.00    229.00    735.00         .83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1389E+03 EXCESS= .0000E+00 OUTFLOW= .1389E+03 BASIN STORAGE= .2516E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76qS  MANE        1.24    229.00    717.97       .23      5.00    229.00    720.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1386E+03 EXCESS= .0000E+00 OUTFLOW= .1386E+03 BASIN STORAGE= .1012E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P76qS  MANE        1.08    229.00   1001.61       .22      5.00    229.00    720.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1339E+03 EXCESS= .0000E+00 OUTFLOW= .1339E+03 BASIN STORAGE= .1011E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P76qS  MANE        1.12    229.00    718.27       .21      5.00    229.00    720.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1306E+03 EXCESS= .0000E+00 OUTFLOW= .1306E+03 BASIN STORAGE= .1012E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P76qS  MANE        1.13    229.00    723.33       .21      5.00    229.00    725.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1273E+03 EXCESS= .0000E+00 OUTFLOW= .1273E+03 BASIN STORAGE= .1012E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76qS  MANE        1.13    229.00    722.61       .21      5.00    229.00    725.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1261E+03 EXCESS= .0000E+00 OUTFLOW= .1261E+03 BASIN STORAGE= .1450E-06 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P80qS  MANE         1.25    364.00    723.51       .35      5.00    364.00    725.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2665E+03 EXCESS= .0000E+00 OUTFLOW= .2665E+03 BASIN STORAGE= .7793E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P80qS  MANE         1.27    364.00    722.56       .34      5.00    364.00    725.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2570E+03 EXCESS= .0000E+00 OUTFLOW= .2570E+03 BASIN STORAGE= .7733E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P80qS  MANE         1.30    364.00    723.60       .33      5.00    364.00    725.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2509E+03 EXCESS= .0000E+00 OUTFLOW= .2509E+03 BASIN STORAGE= .7719E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P80qS  MANE         1.20    364.00    728.06       .32      5.00    364.00    730.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2446E+03 EXCESS= .0000E+00 OUTFLOW= .2446E+03 BASIN STORAGE= .7730E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P80qS  MANE         1.20    364.00    728.16       .32      5.00    364.00    730.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2423E+03 EXCESS= .0000E+00 OUTFLOW= .2423E+03 BASIN STORAGE= .3769E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52sS  MANE         1.00    191.00    722.67      1.82      5.00    191.00    725.00        1.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6408E+02 EXCESS= .0000E+00 OUTFLOW= .6408E+02 BASIN STORAGE= .4773E-12 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P52sS  MANE          .94    191.00    722.81      1.71      5.00    191.00    725.00        1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6027E+02 EXCESS= .0000E+00 OUTFLOW= .6027E+02 BASIN STORAGE= .4698E-12 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P52sS  MANE          .91    191.00    721.95      1.66      5.00    191.00    725.00        1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5839E+02 EXCESS= .0000E+00 OUTFLOW= .5839E+02 BASIN STORAGE= .4687E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P52sS  MANE          .90    191.00    722.19      1.61      5.00    191.00    725.00        1.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5649E+02 EXCESS= .0000E+00 OUTFLOW= .5649E+02 BASIN STORAGE= .4681E-12 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52sS  MANE          .90    191.00    727.16      1.59      5.00    191.00    730.00        1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5582E+02 EXCESS= .0000E+00 OUTFLOW= .5582E+02 BASIN STORAGE= .4787E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56sS  MANE         1.51    201.00    729.42       .87      5.00    201.00    730.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5860E+02 EXCESS= .0000E+00 OUTFLOW= .5860E+02 BASIN STORAGE= .8535E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P56sS  MANE         1.54    201.00    729.38       .82      5.00    201.00    730.00         .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5540E+02 EXCESS= .0000E+00 OUTFLOW= .5541E+02 BASIN STORAGE= .8564E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P56sS  MANE         1.49    201.00    728.28       .79      5.00    201.00    730.00         .79
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5361E+02 EXCESS= .0000E+00 OUTFLOW= .5361E+02 BASIN STORAGE= .8784E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P56sS  MANE        1.58    201.00    729.31       .76      5.00    201.00    730.00        .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5177E+02 EXCESS= .0000E+00 OUTFLOW= .5178E+02 BASIN STORAGE= .8811E-11 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56sS  MANE        1.59    201.00    729.18       .75      5.00    201.00    730.00        .75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5110E+02 EXCESS= .0000E+00 OUTFLOW= .5111E+02 BASIN STORAGE= .8551E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64sS  MANE        1.17    327.00    722.67       .75      5.00    327.00    725.00        .75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1019E+03 EXCESS= .0000E+00 OUTFLOW= .1019E+03 BASIN STORAGE= .8133E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P64sS  MANE        1.22    327.00    722.96       .72      5.00    327.00    725.00        .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9709E+02 EXCESS= .0000E+00 OUTFLOW= .9709E+02 BASIN STORAGE= .8061E-11 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P64sS  MANE        1.20    327.00    722.79       .70      5.00    327.00    725.00        .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9419E+02 EXCESS= .0000E+00 OUTFLOW= .9419E+02 BASIN STORAGE= .8113E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P64sS  MANE        1.21    327.00    723.11       .67      5.00    327.00    725.00        .67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9114E+02 EXCESS= .0000E+00 OUTFLOW= .9114E+02 BASIN STORAGE= .8254E-11 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64sS  MANE        1.26    327.00    723.16       .66      5.00    327.00    725.00        .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9006E+02 EXCESS= .0000E+00 OUTFLOW= .9006E+02 BASIN STORAGE= .8032E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68sS  MANE        1.47    124.00    724.37       .23      5.00    124.00    725.00        .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3808E+02 EXCESS= .0000E+00 OUTFLOW= .3808E+02 BASIN STORAGE= .8451E-12 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P68sS  MANE        1.51    124.00    728.10       .22      5.00    124.00    730.00        .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3639E+02 EXCESS= .0000E+00 OUTFLOW= .3640E+02 BASIN STORAGE= .8137E-12 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P68sS  MANE        1.56    124.00    728.65       .22      5.00    124.00    730.00        .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3533E+02 EXCESS= .0000E+00 OUTFLOW= .3534E+02 BASIN STORAGE= .8427E-12 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68sS  MANE        1.56    124.00    729.24       .21      5.00    124.00    730.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3426E+02 EXCESS= .0000E+00 OUTFLOW= .3427E+02 BASIN STORAGE= .8209E-12 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68sS  MANE        1.57    124.00    729.05       .21      5.00    124.00    730.00        .21
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .3388E+02 EXCESS= .0000E+00 OUTFLOW= .3388E+02 BASIN STORAGE= .8478E-12 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72sS1  MANE         1.14    433.00    722.62      1.22      5.00    433.00    725.00        1.22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3041E+03 EXCESS= .0000E+00 OUTFLOW= .3041E+03 BASIN STORAGE= .8318E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P72sS1  MANE         1.02    433.00    722.47      1.17      5.00    433.00    725.00        1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2921E+03 EXCESS= .0000E+00 OUTFLOW= .2921E+03 BASIN STORAGE= .8320E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72sS1  MANE         1.01    433.00    722.56      1.14      5.00    433.00    725.00        1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2837E+03 EXCESS= .0000E+00 OUTFLOW= .2837E+03 BASIN STORAGE= .8318E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P72sS1  MANE         1.02    433.00    727.85      1.10      5.00    433.00    730.00        1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2750E+03 EXCESS= .0000E+00 OUTFLOW= .2750E+03 BASIN STORAGE= .8320E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72sS1  MANE         1.03    433.00    727.40      1.09      5.00    433.00    730.00        1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2718E+03 EXCESS= .0000E+00 OUTFLOW= .2718E+03 BASIN STORAGE= .3230E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72sS2  MANE         1.23    229.00    723.19       .64      5.00    229.00    725.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1608E+03 EXCESS= .0000E+00 OUTFLOW= .1608E+03 BASIN STORAGE= .5093E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P72sS2  MANE         1.15    229.00    723.39       .62      5.00    229.00    725.00         .62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1545E+03 EXCESS= .0000E+00 OUTFLOW= .1545E+03 BASIN STORAGE= .5095E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72sS2  MANE         1.16    229.00    722.80       .60      5.00    229.00    725.00         .60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1501E+03 EXCESS= .0000E+00 OUTFLOW= .1500E+03 BASIN STORAGE= .5092E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P72sS2  MANE         1.17    229.00    727.59       .58      5.00    229.00    730.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1454E+03 EXCESS= .0000E+00 OUTFLOW= .1454E+03 BASIN STORAGE= .5093E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72sS2  MANE         1.15    229.00    728.23       .58      5.00    229.00    730.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1438E+03 EXCESS= .0000E+00 OUTFLOW= .1438E+03 BASIN STORAGE= .1979E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P76sS  MANE         1.61    204.00    714.47       .20      5.00    204.00    715.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1401E+03 EXCESS= .0000E+00 OUTFLOW= .1401E+03 BASIN STORAGE= .1662E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P76sS  MANE         1.68    204.00    713.44       .19      5.00    204.00    715.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1352E+03 EXCESS= .0000E+00 OUTFLOW= .1352E+03 BASIN STORAGE= .1663E-05 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P76sS  MANE        1.65    204.00    714.52       .19      5.00    204.00    715.00        .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1317E+03 EXCESS= .0000E+00 OUTFLOW= .1317E+03 BASIN STORAGE= .1662E-05 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P76sS  MANE        1.53    204.00    719.14       .18      5.00    204.00    720.00        .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+03 EXCESS= .0000E+00 OUTFLOW= .1283E+03 BASIN STORAGE= .1662E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76sS  MANE        1.59    204.00    718.49       .18      5.00    204.00    720.00        .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1270E+03 EXCESS= .0000E+00 OUTFLOW= .1270E+03 BASIN STORAGE= .5894E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52tS  MANE        1.66    281.00    729.62      1.72      5.00    281.00    730.00       1.72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8814E+02 EXCESS= .0000E+00 OUTFLOW= .8814E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P52tS  MANE        1.54    281.00    728.58      1.62      5.00    281.00    730.00       1.62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8310E+02 EXCESS= .0000E+00 OUTFLOW= .8311E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P52tS  MANE        1.65    281.00    728.91      1.57      5.00    281.00    730.00       1.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8040E+02 EXCESS= .0000E+00 OUTFLOW= .8041E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P52tS  MANE        1.55    281.00    800.01      1.52      5.00    281.00    800.00       1.52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7769E+02 EXCESS= .0000E+00 OUTFLOW= .7770E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52tS  MANE        1.68    281.00    729.20      1.50      5.00    281.00    730.00       1.50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7673E+02 EXCESS= .0000E+00 OUTFLOW= .7673E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56tS  MANE        1.06    482.65    766.30      1.07      5.00    482.34    765.00       1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9955E+02 EXCESS= .0000E+00 OUTFLOW= .9956E+02 BASIN STORAGE= .2034E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P56tS  MANE        1.12    455.07    766.80      1.00      5.00    454.72    765.00       1.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9263E+02 EXCESS= .0000E+00 OUTFLOW= .9264E+02 BASIN STORAGE= .2031E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P56tS  MANE        1.10    436.25    765.73       .95      5.00    436.22    765.00        .95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8847E+02 EXCESS= .0000E+00 OUTFLOW= .8848E+02 BASIN STORAGE= .2096E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P56tS  MANE        1.09    418.43    762.98       .91      5.00    417.92    765.00        .91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8428E+02 EXCESS= .0000E+00 OUTFLOW= .8429E+02 BASIN STORAGE= .2090E-10 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
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P56tS  MANE        1.21    412.38    762.46       .89      5.00    411.62    765.00         .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8279E+02 EXCESS= .0000E+00 OUTFLOW= .8280E+02 BASIN STORAGE= .2044E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P64tS  MANE        1.38    375.00    723.62       .72      5.00    375.00    725.00         .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1378E+03 EXCESS= .0000E+00 OUTFLOW= .1378E+03 BASIN STORAGE= .2709E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P64tS  MANE        1.41    375.00    723.86       .68      5.00    375.00    725.00         .68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1317E+03 EXCESS= .0000E+00 OUTFLOW= .1317E+03 BASIN STORAGE= .2688E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P64tS  MANE        1.43    375.00    723.88       .66      5.00    375.00    725.00         .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1279E+03 EXCESS= .0000E+00 OUTFLOW= .1279E+03 BASIN STORAGE= .2711E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P64tS  MANE        1.27    375.00    723.04       .64      5.00    375.00    725.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1239E+03 EXCESS= .0000E+00 OUTFLOW= .1239E+03 BASIN STORAGE= .2758E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P64tS  MANE        1.27    375.00    723.11       .64      5.00    375.00    725.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1226E+03 EXCESS= .0000E+00 OUTFLOW= .1226E+03 BASIN STORAGE= .2687E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P68tS  MANE        1.63    124.00    718.27       .21      5.00    124.00    720.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4947E+02 EXCESS= .0000E+00 OUTFLOW= .4948E+02 BASIN STORAGE= .6796E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P68tS  MANE        1.68    124.00    719.04       .20      5.00    124.00    720.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4737E+02 EXCESS= .0000E+00 OUTFLOW= .4737E+02 BASIN STORAGE= .6531E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P68tS  MANE        1.68    124.00    719.69       .20      5.00    124.00    720.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4602E+02 EXCESS= .0000E+00 OUTFLOW= .4602E+02 BASIN STORAGE= .6779E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P68tS  MANE        1.64    124.00    718.85       .19      5.00    124.00    720.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4469E+02 EXCESS= .0000E+00 OUTFLOW= .4470E+02 BASIN STORAGE= .6605E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P68tS  MANE        1.70    124.00    718.80       .19      5.00    124.00    720.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4420E+02 EXCESS= .0000E+00 OUTFLOW= .4420E+02 BASIN STORAGE= .6812E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P72tS1  MANE       1.25    433.00    723.03       .89      5.00    433.00    725.00         .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2946E+03 EXCESS= .0000E+00 OUTFLOW= .2946E+03 BASIN STORAGE= .9006E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P72tS1  MANE       1.23    433.00    727.68       .85      5.00    433.00    730.00         .85
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2830E+03 EXCESS= .0000E+00 OUTFLOW= .2830E+03 BASIN STORAGE= .9009E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72tS1  MANE        1.26    433.00    728.69       .83      5.00    433.00    730.00        .83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2749E+03 EXCESS= .0000E+00 OUTFLOW= .2749E+03 BASIN STORAGE= .9004E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P72tS1  MANE        1.28    433.00    728.73       .80      5.00    433.00    730.00        .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2664E+03 EXCESS= .0000E+00 OUTFLOW= .2664E+03 BASIN STORAGE= .9005E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72tS1  MANE        1.28    433.00    727.86       .79      5.00    433.00    730.00        .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2634E+03 EXCESS= .0000E+00 OUTFLOW= .2634E+03 BASIN STORAGE= .3512E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72tS2  MANE        1.27    281.00    723.04       .58      5.00    281.00    725.00        .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1912E+03 EXCESS= .0000E+00 OUTFLOW= .1912E+03 BASIN STORAGE= .6427E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P72tS2  MANE        1.42    281.00    727.91       .55      5.00    281.00    730.00        .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1837E+03 EXCESS= .0000E+00 OUTFLOW= .1837E+03 BASIN STORAGE= .6430E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72tS2  MANE        1.36    281.00    728.03       .54      5.00    281.00    730.00        .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1784E+03 EXCESS= .0000E+00 OUTFLOW= .1784E+03 BASIN STORAGE= .6424E-05 PERCENT ERROR=

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P72tS2  MANE        1.39    281.00    728.77       .52      5.00    281.00    730.00        .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1729E+03 EXCESS= .0000E+00 OUTFLOW= .1729E+03 BASIN STORAGE= .6429E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72tS2  MANE        1.39    281.00    729.10       .51      5.00    281.00    730.00        .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1709E+03 EXCESS= .0000E+00 OUTFLOW= .1709E+03 BASIN STORAGE= .2508E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P76tS1  MANE        1.47    249.00    724.13       .19      5.00    249.00    725.00        .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1548E+03 EXCESS= .0000E+00 OUTFLOW= .1548E+03 BASIN STORAGE= .1448E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P76tS1  MANE        1.48    249.00    724.22       .19      5.00    249.00    725.00        .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1494E+03 EXCESS= .0000E+00 OUTFLOW= .1494E+03 BASIN STORAGE= .1448E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P76tS1  MANE        1.48    249.00    723.09       .18      5.00    249.00    725.00        .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1457E+03 EXCESS= .0000E+00 OUTFLOW= .1457E+03 BASIN STORAGE= .1448E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P76tS1  MANE        1.54    249.00    723.70       .18      5.00    249.00    725.00        .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1419E+03 EXCESS= .0000E+00 OUTFLOW= .1419E+03 BASIN STORAGE= .1448E-05 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P76tS1  MANE         1.53    249.00    723.34       .17      5.00    249.00    725.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1405E+03 EXCESS= .0000E+00 OUTFLOW= .1405E+03 BASIN STORAGE= .5154E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P76tS2  MANE         2.20     48.00    726.28       .04      5.00     48.00    730.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2985E+02 EXCESS= .0000E+00 OUTFLOW= .2985E+02 BASIN STORAGE= .4214E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  P76tS2  MANE         2.22     48.00    725.60       .04      5.00     48.00    730.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2881E+02 EXCESS= .0000E+00 OUTFLOW= .2881E+02 BASIN STORAGE= .4213E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  P76tS2  MANE         2.25     48.00    931.96       .03      5.00     48.00    725.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2809E+02 EXCESS= .0000E+00 OUTFLOW= .2809E+02 BASIN STORAGE= .4213E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  P76tS2  MANE         2.20     48.00    928.11       .03      5.00     48.00    730.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2735E+02 EXCESS= .0000E+00 OUTFLOW= .2735E+02 BASIN STORAGE= .4213E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P76tS2  MANE         2.33     48.00    725.54       .03      5.00     48.00    730.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2708E+02 EXCESS= .0000E+00 OUTFLOW= .2708E+02 BASIN STORAGE= .1502E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P80tS  MANE          .99    364.00    717.93       .32      5.00    364.00    720.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2738E+03 EXCESS= .0000E+00 OUTFLOW= .2738E+03 BASIN STORAGE= .6142E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P80tS  MANE          .99    364.00    722.25       .30      5.00    364.00    725.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2640E+03 EXCESS= .0000E+00 OUTFLOW= .2640E+03 BASIN STORAGE= .6162E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P80tS  MANE          .93    364.00   1015.84       .30      5.00    364.00    725.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2577E+03 EXCESS= .0000E+00 OUTFLOW= .2577E+03 BASIN STORAGE= .6133E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P80tS  MANE         1.08    364.00    723.23       .29      5.00    364.00    725.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2513E+03 EXCESS= .0000E+00 OUTFLOW= .2513E+03 BASIN STORAGE= .6118E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P80tS  MANE          .93    364.00   1011.08       .29      5.00    364.00    725.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2490E+03 EXCESS= .0000E+00 OUTFLOW= .2490E+03 BASIN STORAGE= .3119E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P84tS  MANE         1.28    252.00    738.34      1.69      5.00    252.00    740.00        1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6925E+02 EXCESS= .0000E+00 OUTFLOW= .6926E+02 BASIN STORAGE= .1885E-02 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P84tS  MANE        1.29    252.00    738.78      1.65      5.00    252.00    740.00        1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6775E+02 EXCESS= .0000E+00 OUTFLOW= .6776E+02 BASIN STORAGE= .1885E-02 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P84tS  MANE        1.30    252.00    738.29      1.63      5.00    252.00    740.00        1.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6676E+02 EXCESS= .0000E+00 OUTFLOW= .6677E+02 BASIN STORAGE= .1885E-02 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P84tS  MANE        1.38    252.00    738.99      1.60      5.00    252.00    740.00        1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6579E+02 EXCESS= .0000E+00 OUTFLOW= .6579E+02 BASIN STORAGE= .1885E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P84tS  MANE        1.37    252.00    738.37      1.59      5.00    252.00    740.00        1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6544E+02 EXCESS= .0000E+00 OUTFLOW= .6544E+02 BASIN STORAGE= .1885E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P88uW  MANE        2.02     36.00    710.79       .06      5.00     36.00    715.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2940E+02 EXCESS= .0000E+00 OUTFLOW= .2940E+02 BASIN STORAGE= .1547E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P88uW  MANE        1.88     36.00    710.53       .06      5.00     36.00    715.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2839E+02 EXCESS= .0000E+00 OUTFLOW= .2839E+02 BASIN STORAGE= .1615E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P88uW  MANE        1.90     36.00    714.92       .05      5.00     36.00    715.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2768E+02 EXCESS= .0000E+00 OUTFLOW= .2768E+02 BASIN STORAGE= .1367E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P88uW  MANE        1.91     36.00    715.54       .05      5.00     36.00    720.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2696E+02 EXCESS= .0000E+00 OUTFLOW= .2696E+02 BASIN STORAGE= .1588E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P88uW  MANE        1.93     36.00    715.20       .05      5.00     36.00    720.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2670E+02 EXCESS= .0000E+00 OUTFLOW= .2670E+02 BASIN STORAGE= .1723E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P92uS  MANE         .90    201.00    726.97       .23      5.00    201.00    730.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1233E+03 EXCESS= .0000E+00 OUTFLOW= .1233E+03 BASIN STORAGE= .3962E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P92uS  MANE         .78    201.00    726.57       .22      5.00    201.00    730.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1199E+03 EXCESS= .0000E+00 OUTFLOW= .1199E+03 BASIN STORAGE= .3962E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P92uS  MANE         .79    201.00    731.68       .22      5.00    201.00    735.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1174E+03 EXCESS= .0000E+00 OUTFLOW= .1174E+03 BASIN STORAGE= .3962E-02 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P92uS  MANE         .81    201.00    731.77       .21      5.00    201.00    735.00         .21
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1137E+03 EXCESS= .0000E+00 OUTFLOW= .1136E+03 BASIN STORAGE= .3962E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P92uS  MANE          .83    201.00    732.16       .21      5.00    201.00    735.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1119E+03 EXCESS= .0000E+00 OUTFLOW= .1119E+03 BASIN STORAGE= .3962E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P76uS2  MANE         1.71     48.00    718.56       .03      5.00     48.00    720.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3096E+02 EXCESS= .0000E+00 OUTFLOW= .3097E+02 BASIN STORAGE= .3232E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P76uS2  MANE         1.80     48.00    719.78       .03      5.00     48.00    720.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2987E+02 EXCESS= .0000E+00 OUTFLOW= .2987E+02 BASIN STORAGE= .3232E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P76uS2  MANE         1.78     48.00    718.76       .03      5.00     48.00    720.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2912E+02 EXCESS= .0000E+00 OUTFLOW= .2912E+02 BASIN STORAGE= .3231E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P76uS2  MANE         1.75     48.00    724.46       .03      5.00     48.00    725.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2836E+02 EXCESS= .0000E+00 OUTFLOW= .2836E+02 BASIN STORAGE= .3231E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P76uS2  MANE         1.84     48.00    725.28       .03      5.00     48.00    730.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2808E+02 EXCESS= .0000E+00 OUTFLOW= .2808E+02 BASIN STORAGE= .1155E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P76uS1  MANE         1.99    249.00    719.62       .17      5.00    249.00    720.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1606E+03 EXCESS= .0000E+00 OUTFLOW= .1606E+03 BASIN STORAGE= .1931E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P76uS1  MANE         2.04    249.00    720.83       .17      5.00    249.00    725.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1550E+03 EXCESS= .0000E+00 OUTFLOW= .1550E+03 BASIN STORAGE= .1931E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P76uS1  MANE         2.02    249.00    719.32       .16      5.00    249.00    720.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1511E+03 EXCESS= .0000E+00 OUTFLOW= .1511E+03 BASIN STORAGE= .1931E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P76uS1  MANE         2.06    249.00    725.05       .16      5.00    249.00    730.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1471E+03 EXCESS= .0000E+00 OUTFLOW= .1471E+03 BASIN STORAGE= .1932E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P76uS1  MANE         2.08    249.00    725.08       .16      5.00    249.00    730.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1457E+03 EXCESS= .0000E+00 OUTFLOW= .1457E+03 BASIN STORAGE= .6910E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P80uS  MANE         1.72    509.00    809.89       .67      5.00    509.00    810.00         .67
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .6680E+03 EXCESS= .0000E+00 OUTFLOW= .6679E+03 BASIN STORAGE= .1204E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P80uS  MANE         1.64    509.00    814.82       .66      5.00    509.00    815.00         .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6561E+03 EXCESS= .0000E+00 OUTFLOW= .6561E+03 BASIN STORAGE= .1186E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P80uS  MANE         1.66    509.00    819.34       .65      5.00    509.00    820.00         .65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6482E+03 EXCESS= .0000E+00 OUTFLOW= .6482E+03 BASIN STORAGE= .1191E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P80uS  MANE         1.71    509.00    829.69       .64      5.00    509.00    830.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6400E+03 EXCESS= .0000E+00 OUTFLOW= .6400E+03 BASIN STORAGE= .1197E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P80uS  MANE         1.68    509.00    828.61       .64      5.00    509.00    830.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6370E+03 EXCESS= .0000E+00 OUTFLOW= .6370E+03 BASIN STORAGE= .6394E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P84uS  MANE         1.35    252.00    733.91       .31      5.00    252.00    735.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1480E+03 EXCESS= .0000E+00 OUTFLOW= .1480E+03 BASIN STORAGE= .1762E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P84uS  MANE         1.22    252.00    733.00       .30      5.00    252.00    735.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1444E+03 EXCESS= .0000E+00 OUTFLOW= .1444E+03 BASIN STORAGE= .1762E-02 PERCENT ERROR=

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P84uS  MANE         1.22    252.00    737.82       .29      5.00    252.00    740.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1416E+03 EXCESS= .0000E+00 OUTFLOW= .1416E+03 BASIN STORAGE= .1762E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P84uS  MANE         1.25    252.00    738.04       .28      5.00    252.00    740.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1373E+03 EXCESS= .0000E+00 OUTFLOW= .1373E+03 BASIN STORAGE= .1762E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P84uS  MANE         1.24    252.00    737.74       .28      5.00    252.00    740.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1355E+03 EXCESS= .0000E+00 OUTFLOW= .1355E+03 BASIN STORAGE= .1762E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P92vS  MANE         2.52    201.00    725.62       .23      5.00    201.00    730.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1403E+03 EXCESS= .0000E+00 OUTFLOW= .1403E+03 BASIN STORAGE= .1295E-01 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P92vS  MANE         2.67    201.00    725.95       .23      5.00    201.00    730.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1364E+03 EXCESS= .0000E+00 OUTFLOW= .1364E+03 BASIN STORAGE= .1294E-01 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P92vS  MANE         2.56    201.00    726.19       .22      5.00    201.00    730.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1337E+03 EXCESS= .0000E+00 OUTFLOW= .1337E+03 BASIN STORAGE= .1294E-01 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P92vS  MANE         2.56    201.00    727.00       .22      5.00    201.00    730.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1309E+03 EXCESS= .0000E+00 OUTFLOW= .1309E+03 BASIN STORAGE= .7552E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P92vS  MANE         2.59    201.00    725.82       .22      5.00    201.00    730.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1298E+03 EXCESS= .0000E+00 OUTFLOW= .1298E+03 BASIN STORAGE= .1294E-01 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P88vS  MANE         1.88     51.00    720.64       .05      5.00     51.00    725.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3004E+02 EXCESS= .0000E+00 OUTFLOW= .3004E+02 BASIN STORAGE= .4599E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P88vS  MANE         1.79     51.02   1023.03       .05      5.00     51.00    720.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2909E+02 EXCESS= .0000E+00 OUTFLOW= .2910E+02 BASIN STORAGE= .6080E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P88vS  MANE         1.95     51.00    725.11       .05      5.00     51.00    730.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2843E+02 EXCESS= .0000E+00 OUTFLOW= .2843E+02 BASIN STORAGE= .5783E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P88vS  MANE         1.83     51.00    724.26       .05      5.00     51.00    725.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2773E+02 EXCESS= .0000E+00 OUTFLOW= .2773E+02 BASIN STORAGE= .1232E-08 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P88vS  MANE         1.93     51.00    724.93       .05      5.00     51.00    725.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2746E+02 EXCESS= .0000E+00 OUTFLOW= .2746E+02 BASIN STORAGE= .7469E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44sS  MANE         4.96    201.00    724.24       .57      5.00    201.00    725.00         .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1160E+03 EXCESS= .0000E+00 OUTFLOW= .1160E+03 BASIN STORAGE= .4683E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P44sS  MANE         5.00    201.00    720.70       .55      5.00    201.00    725.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1107E+03 EXCESS= .0000E+00 OUTFLOW= .1107E+03 BASIN STORAGE= .4682E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P44sS  MANE         4.95    201.00    722.89       .53      5.00    201.00    725.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1071E+03 EXCESS= .0000E+00 OUTFLOW= .1071E+03 BASIN STORAGE= .4683E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P44sS  MANE         4.95    201.00    728.95       .51      5.00    201.00    730.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1036E+03 EXCESS= .0000E+00 OUTFLOW= .1036E+03 BASIN STORAGE= .1734E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44sS  MANE         4.92    201.00    725.52       .51      5.00    201.00    730.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1023E+03 EXCESS= .0000E+00 OUTFLOW= .1024E+03 BASIN STORAGE= .1734E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
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PT48o  MANE        1.03   2573.00    777.82      1.07      5.00   2573.00    780.00        1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8169E+03 EXCESS= .0000E+00 OUTFLOW= .8169E+03 BASIN STORAGE= .1095E-04 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
PT48o  MANE        1.03   2573.00    787.20       .96      5.00   2573.00    790.00         .96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7345E+03 EXCESS= .0000E+00 OUTFLOW= .7345E+03 BASIN STORAGE= .1095E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
PT48o  MANE        1.06   2522.64    805.76       .89      5.00   2522.55    805.00         .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6807E+03 EXCESS= .0000E+00 OUTFLOW= .6807E+03 BASIN STORAGE= .1044E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
PT48o  MANE        1.07   2295.02    806.84       .82      5.00   2291.27    810.00         .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6286E+03 EXCESS= .0000E+00 OUTFLOW= .6286E+03 BASIN STORAGE= .4589E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT48o  MANE        1.07   2221.38    796.58       .80      5.00   2221.28    795.00         .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6100E+03 EXCESS= .0000E+00 OUTFLOW= .6100E+03 BASIN STORAGE= .4321E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
PT48q  MANE         .76   2874.70    776.47      1.01      5.00   2868.28    780.00        1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8676E+03 EXCESS= .0000E+00 OUTFLOW= .8675E+03 BASIN STORAGE= .7204E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
PT48q  MANE         .77   2797.48    791.33       .91      5.00   2795.12    790.00         .91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7807E+03 EXCESS= .0000E+00 OUTFLOW= .7807E+03 BASIN STORAGE= .7204E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
PT48q  MANE         .69   2684.82    801.58       .84      5.00   2682.36    805.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7239E+03 EXCESS= .0000E+00 OUTFLOW= .7238E+03 BASIN STORAGE= .6868E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
PT48q  MANE         .75   2454.04    787.07       .78      5.00   2453.99    790.00         .78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6688E+03 EXCESS= .0000E+00 OUTFLOW= .6688E+03 BASIN STORAGE= .3020E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT48q  MANE         .77   2405.68    791.56       .76      5.00   2402.87    790.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6491E+03 EXCESS= .0000E+00 OUTFLOW= .6491E+03 BASIN STORAGE= .3020E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
PT48s  MANE        2.30   3935.52    783.25      1.10      5.00   3933.03    785.00        1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1027E+04 EXCESS= .0000E+00 OUTFLOW= .1027E+04 BASIN STORAGE= .2577E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
PT48s  MANE        2.41   3754.06    789.14       .99      5.00   3753.34    790.00         .99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9248E+03 EXCESS= .0000E+00 OUTFLOW= .9250E+03 BASIN STORAGE= .2577E-04 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
PT48s  MANE        2.38   3521.06    785.20       .92      5.00   3520.60    785.00         .92
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .8559E+03 EXCESS= .0000E+00 OUTFLOW= .8560E+03 BASIN STORAGE= .2457E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           PT48s  MANE         2.42   3293.78    784.84       .84      5.00   3293.71    785.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7891E+03 EXCESS= .0000E+00 OUTFLOW= .7893E+03 BASIN STORAGE= .1080E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           PT48s  MANE         2.45   3202.13    788.69       .82      5.00   3199.58    790.00         .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7652E+03 EXCESS= .0000E+00 OUTFLOW= .7653E+03 BASIN STORAGE= .1080E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P52uS  MANE         1.30    281.00    733.70      1.49      5.00    281.00    735.00        1.49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1074E+03 EXCESS= .0000E+00 OUTFLOW= .1074E+03 BASIN STORAGE= .3602E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P52uS  MANE         1.32    281.00    733.31      1.40      5.00    281.00    735.00        1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1010E+03 EXCESS= .0000E+00 OUTFLOW= .1010E+03 BASIN STORAGE= .3602E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P52uS  MANE         1.18    281.00    732.46      1.35      5.00    281.00    735.00        1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9716E+02 EXCESS= .0000E+00 OUTFLOW= .9717E+02 BASIN STORAGE= .3826E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P52uS  MANE         1.24    281.00    733.15      1.30      5.00    281.00    735.00        1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9332E+02 EXCESS= .0000E+00 OUTFLOW= .9332E+02 BASIN STORAGE= .3826E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P52uS  MANE         1.24    281.00    733.46      1.28      5.00    281.00    735.00        1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9194E+02 EXCESS= .0000E+00 OUTFLOW= .9195E+02 BASIN STORAGE= .3602E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P56uS  MANE          .82    612.00    747.10      1.02      5.00    612.00    750.00        1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1341E+03 EXCESS= .0000E+00 OUTFLOW= .1341E+03 BASIN STORAGE= .3873E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P56uS  MANE          .77    612.00    775.14       .96      5.00    612.00    775.00         .96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1258E+03 EXCESS= .0000E+00 OUTFLOW= .1258E+03 BASIN STORAGE= .3873E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P56uS  MANE          .75    612.00    761.92       .92      5.00    612.00    765.00         .92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1205E+03 EXCESS= .0000E+00 OUTFLOW= .1205E+03 BASIN STORAGE= .3873E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P56uS  MANE          .79    590.48    766.25       .87      5.00    590.42    765.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1142E+03 EXCESS= .0000E+00 OUTFLOW= .1142E+03 BASIN STORAGE= .3870E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56uS  MANE          .80    579.57    766.13       .85      5.00    579.56    765.00         .85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1120E+03 EXCESS= .0000E+00 OUTFLOW= .1120E+03 BASIN STORAGE= .3873E-06 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P60uS  MANE         1.41    124.00    737.83       .17      5.00    124.00    740.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3304E+02 EXCESS= .0000E+00 OUTFLOW= .3304E+02 BASIN STORAGE= .1075E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P60uS  MANE         1.56    124.00    739.19       .16      5.00    124.00    740.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3156E+02 EXCESS= .0000E+00 OUTFLOW= .3157E+02 BASIN STORAGE= .1056E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P60uS  MANE         1.39    124.00    812.67       .15      5.00    124.00    740.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3037E+02 EXCESS= .0000E+00 OUTFLOW= .3038E+02 BASIN STORAGE= .9932E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P60uS  MANE         1.40    124.00    738.26       .15      5.00    124.00    740.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2927E+02 EXCESS= .0000E+00 OUTFLOW= .2927E+02 BASIN STORAGE= .1007E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P60uS  MANE         1.44    124.00    743.54       .15      5.00    124.00    745.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2889E+02 EXCESS= .0000E+00 OUTFLOW= .2889E+02 BASIN STORAGE= .1038E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64q  MANE          .62   4512.67    821.44      1.22      5.00   4509.83    820.00        1.22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1473E+04 EXCESS= .0000E+00 OUTFLOW= .1473E+04 BASIN STORAGE= .1580E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   PT64q  MANE          .64   4177.67    811.33      1.10      5.00   4175.72    810.00        1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1322E+04 EXCESS= .0000E+00 OUTFLOW= .1322E+04 BASIN STORAGE= .1580E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   PT64q  MANE          .64   3974.83    801.46      1.02      5.00   3971.21    800.00        1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1223E+04 EXCESS= .0000E+00 OUTFLOW= .1223E+04 BASIN STORAGE= .1580E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   PT64q  MANE          .62   3744.96    801.66       .94      5.00   3741.47    800.00         .94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+04 EXCESS= .0000E+00 OUTFLOW= .1129E+04 BASIN STORAGE= .7415E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64q  MANE          .63   3666.02    801.11       .91      5.00   3662.11    800.00         .91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1097E+04 EXCESS= .0000E+00 OUTFLOW= .1097E+04 BASIN STORAGE= .7414E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64s  MANE          .69   4509.43    821.27      1.17      5.00   4505.74    825.00        1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1473E+04 EXCESS= .0000E+00 OUTFLOW= .1473E+04 BASIN STORAGE= .1771E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   PT64s  MANE          .75   4175.26    811.46      1.05      5.00   4172.62    810.00        1.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1322E+04 EXCESS= .0000E+00 OUTFLOW= .1322E+04 BASIN STORAGE= .1771E-04 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   PT64s  MANE          .75   3971.08    801.67       .97      5.00   3969.77    805.00         .97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1223E+04 EXCESS= .0000E+00 OUTFLOW= .1223E+04 BASIN STORAGE= .1771E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   PT64s  MANE          .77   3741.23    802.11       .90      5.00   3740.30    805.00         .90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+04 EXCESS= .0000E+00 OUTFLOW= .1129E+04 BASIN STORAGE= .8317E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64s  MANE          .84   3661.96    801.82       .87      5.00   3660.91    805.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1097E+04 EXCESS= .0000E+00 OUTFLOW= .1097E+04 BASIN STORAGE= .8317E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64t  MANE          .73   4505.71    825.76      1.12      5.00   4505.68    825.00        1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1473E+04 EXCESS= .0000E+00 OUTFLOW= .1473E+04 BASIN STORAGE= .1961E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   PT64t  MANE          .76   4172.31    811.73      1.01      5.00   4168.85    810.00        1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1322E+04 EXCESS= .0000E+00 OUTFLOW= .1322E+04 BASIN STORAGE= .1962E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   PT64t  MANE          .77   3969.30    806.17       .93      5.00   3968.24    805.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1223E+04 EXCESS= .0000E+00 OUTFLOW= .1223E+04 BASIN STORAGE= .1962E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   PT64t  MANE          .79   3739.91    806.46       .86      5.00   3738.74    805.00         .86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+04 EXCESS= .0000E+00 OUTFLOW= .1129E+04 BASIN STORAGE= .9223E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64t  MANE          .87   3660.05    806.21       .83      5.00   3659.30    805.00         .83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1097E+04 EXCESS= .0000E+00 OUTFLOW= .1097E+04 BASIN STORAGE= .9216E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT64u   MANE          .47   4505.51    825.85      1.06      5.00   4504.65    825.00        1.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1473E+04 EXCESS= .0000E+00 OUTFLOW= .1473E+04 BASIN STORAGE= .1266E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  PT64u   MANE          .49   4168.82    811.32       .96      5.00   4168.57    815.00         .96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1322E+04 EXCESS= .0000E+00 OUTFLOW= .1322E+04 BASIN STORAGE= .1266E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  PT64u   MANE          .50   3967.83    805.85       .88      5.00   3965.70    805.00         .88

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1223E+04 EXCESS= .0000E+00 OUTFLOW= .1223E+04 BASIN STORAGE= .1266E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  PT64u   MANE          .63   3737.89    805.95       .82      5.00   3736.24    805.00         .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+04 EXCESS= .0000E+00 OUTFLOW= .1129E+04 BASIN STORAGE= .5958E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  PT64u   MANE          .53   3658.52    805.74       .79      5.00   3656.88    805.00         .79
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1097E+04 EXCESS= .0000E+00 OUTFLOW= .1097E+04 BASIN STORAGE= .5955E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64uS  MANE          .95    375.00    722.01       .58      5.00    375.00    725.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1511E+03 EXCESS= .0000E+00 OUTFLOW= .1511E+03 BASIN STORAGE= .3350E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P64uS  MANE          .97    375.00    722.70       .55      5.00    375.00    725.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1446E+03 EXCESS= .0000E+00 OUTFLOW= .1446E+03 BASIN STORAGE= .3329E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P64uS  MANE          .98    375.00    722.07       .54      5.00    375.00    725.00         .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1404E+03 EXCESS= .0000E+00 OUTFLOW= .1404E+03 BASIN STORAGE= .3372E-10 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P64uS  MANE          .94    375.00    722.57       .52      5.00    375.00    725.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1361E+03 EXCESS= .0000E+00 OUTFLOW= .1361E+03 BASIN STORAGE= .3441E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64uS  MANE          .96    375.00    722.69       .51      5.00    375.00    725.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1346E+03 EXCESS= .0000E+00 OUTFLOW= .1346E+03 BASIN STORAGE= .3345E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68uS  MANE         1.37    146.00    718.40       .21      5.00    146.00    720.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6562E+02 EXCESS= .0000E+00 OUTFLOW= .6563E+02 BASIN STORAGE= .1744E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
           P68uS  MANE         1.40    146.00    718.58       .20      5.00    146.00    720.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6290E+02 EXCESS= .0000E+00 OUTFLOW= .6290E+02 BASIN STORAGE= .1672E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
           P68uS  MANE         1.47    146.00    718.02       .19      5.00    146.00    720.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6113E+02 EXCESS= .0000E+00 OUTFLOW= .6113E+02 BASIN STORAGE= .1750E-10 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
           P68uS  MANE         1.46    146.00    718.04       .19      5.00    146.00    720.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5942E+02 EXCESS= .0000E+00 OUTFLOW= .5942E+02 BASIN STORAGE= .1703E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68uS  MANE         1.45    146.00    718.92       .18      5.00    146.00    720.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5877E+02 EXCESS= .0000E+00 OUTFLOW= .5877E+02 BASIN STORAGE= .1740E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72uS1  MANE         2.11    433.00    726.72       .70      5.00    433.00    730.00         .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3015E+03 EXCESS= .0000E+00 OUTFLOW= .3015E+03 BASIN STORAGE= .1670E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P72uS1  MANE         2.11    433.00    727.64       .67      5.00    433.00    730.00         .67
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2898E+03 EXCESS= .0000E+00 OUTFLOW= .2898E+03 BASIN STORAGE= .1670E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72uS1  MANE         2.15    433.00    724.42       .66      5.00    433.00    725.00         .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2816E+03 EXCESS= .0000E+00 OUTFLOW= .2816E+03 BASIN STORAGE= .1669E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P72uS1  MANE         2.27    433.00    729.60       .64      5.00    433.00    730.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2729E+03 EXCESS= .0000E+00 OUTFLOW= .2730E+03 BASIN STORAGE= .1671E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72uS1  MANE         2.25    433.00    731.07       .63      5.00    433.00    735.00         .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2699E+03 EXCESS= .0000E+00 OUTFLOW= .2699E+03 BASIN STORAGE= .6550E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72uS2  MANE         2.22    281.00    725.39       .46      5.00    281.00    730.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1957E+03 EXCESS= .0000E+00 OUTFLOW= .1957E+03 BASIN STORAGE= .1072E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
          P72uS2  MANE         2.22    281.00    725.33       .44      5.00    281.00    730.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1880E+03 EXCESS= .0000E+00 OUTFLOW= .1880E+03 BASIN STORAGE= .1073E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
          P72uS2  MANE         2.18    281.00    726.53       .43      5.00    281.00    730.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1827E+03 EXCESS= .0000E+00 OUTFLOW= .1827E+03 BASIN STORAGE= .1072E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
          P72uS2  MANE         2.11    281.00    730.54       .41      5.00    281.00    735.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1771E+03 EXCESS= .0000E+00 OUTFLOW= .1771E+03 BASIN STORAGE= .1073E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72uS2  MANE         2.23    281.00    730.81       .41      5.00    281.00    735.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1751E+03 EXCESS= .0000E+00 OUTFLOW= .1751E+03 BASIN STORAGE= .4201E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
            P76vS  MANE         2.25    109.00    729.64       .12      5.00    109.00    730.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5225E+02 EXCESS= .0000E+00 OUTFLOW= .5225E+02 BASIN STORAGE= .4800E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =      10.00
            P76vS  MANE         2.24    109.00    731.28       .11      5.00    109.00    735.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5027E+02 EXCESS= .0000E+00 OUTFLOW= .5027E+02 BASIN STORAGE= .4801E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =      30.00
            P76vS  MANE         2.29    109.00    730.85       .11      5.00    109.00    735.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4890E+02 EXCESS= .0000E+00 OUTFLOW= .4890E+02 BASIN STORAGE= .4799E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      60.00
            P76vS  MANE         2.26    109.00    730.56       .11      5.00    109.00    735.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4751E+02 EXCESS= .0000E+00 OUTFLOW= .4752E+02 BASIN STORAGE= .4799E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76vS  MANE        2.18    109.00    731.51       .11      5.00    109.00    735.00        .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4701E+02 EXCESS= .0000E+00 OUTFLOW= .4701E+02 BASIN STORAGE= .1726E-06 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P84vS1  MANE        1.49    252.00    854.03       .35      5.00    252.00    855.00        .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1836E+03 EXCESS= .0000E+00 OUTFLOW= .1836E+03 BASIN STORAGE= .5703E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  P84vS1  MANE        1.48    252.00    873.72       .34      5.00    252.00    875.00        .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1770E+03 EXCESS= .0000E+00 OUTFLOW= .1770E+03 BASIN STORAGE= .5703E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  P84vS1  MANE        1.67    231.32    884.18       .33      5.00    231.15    885.00        .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1717E+03 EXCESS= .0000E+00 OUTFLOW= .1717E+03 BASIN STORAGE= .5703E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  P84vS1  MANE        1.54    208.80    898.57       .32      5.00    208.49    900.00        .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1662E+03 EXCESS= .0000E+00 OUTFLOW= .1662E+03 BASIN STORAGE= .5703E-03 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P84vS1  MANE        1.67    201.40    902.91       .32      5.00    201.15    905.00        .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1642E+03 EXCESS= .0000E+00 OUTFLOW= .1642E+03 BASIN STORAGE= .5700E-03 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P84vS2  MANE        1.17   1017.00    852.50      1.42      5.00   1017.00    855.00       1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7410E+03 EXCESS= .0000E+00 OUTFLOW= .7410E+03 BASIN STORAGE= .1645E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
  P84vS2  MANE        1.20   1017.00    872.85      1.37      5.00   1016.99    875.00       1.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7144E+03 EXCESS= .0000E+00 OUTFLOW= .7143E+03 BASIN STORAGE= .1645E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
  P84vS2  MANE        1.21    933.78    882.17      1.33      5.00    932.14    885.00       1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6931E+03 EXCESS= .0000E+00 OUTFLOW= .6931E+03 BASIN STORAGE= .1645E-02 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
  P84vS2  MANE        1.22    842.69    896.91      1.29      5.00    841.66    895.00       1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6708E+03 EXCESS= .0000E+00 OUTFLOW= .6708E+03 BASIN STORAGE= .1645E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P84vS2  MANE        1.23    812.82    902.71      1.27      5.00    811.77    900.00       1.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6628E+03 EXCESS= .0000E+00 OUTFLOW= .6628E+03 BASIN STORAGE= .1644E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P80vS  MANE        2.32    249.00    720.22       .39      5.00    249.00    725.00        .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1718E+03 EXCESS= .0000E+00 OUTFLOW= .1718E+03 BASIN STORAGE= .2222E-05 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
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P80vS  MANE        2.34    249.00    721.89       .38      5.00    249.00    725.00        .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1656E+03 EXCESS= .0000E+00 OUTFLOW= .1656E+03 BASIN STORAGE= .2223E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P80vS  MANE        2.34    249.00    721.52       .37      5.00    249.00    725.00        .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1614E+03 EXCESS= .0000E+00 OUTFLOW= .1614E+03 BASIN STORAGE= .2223E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P80vS  MANE        2.38    249.00    726.43       .36      5.00    249.00    730.00        .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1572E+03 EXCESS= .0000E+00 OUTFLOW= .1572E+03 BASIN STORAGE= .2223E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P80vS  MANE        2.35    249.00    725.50       .35      5.00    249.00    730.00        .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1557E+03 EXCESS= .0000E+00 OUTFLOW= .1557E+03 BASIN STORAGE= .7972E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P28qE  MANE        1.14     32.00    727.67       .25      5.00     32.00    730.00        .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1085E+02 EXCESS= .0000E+00 OUTFLOW= .1085E+02 BASIN STORAGE= .1239E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P28qE  MANE        1.13     32.00    727.30       .24      5.00     32.00    730.00        .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1041E+02 EXCESS= .0000E+00 OUTFLOW= .1041E+02 BASIN STORAGE= .1239E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P28qE  MANE        1.16     32.00    727.50       .23      5.00     32.00    730.00        .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1010E+02 EXCESS= .0000E+00 OUTFLOW= .1010E+02 BASIN STORAGE= .1239E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P28qE  MANE        1.05     32.00    733.01       .22      5.00     32.00    735.00        .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9777E+01 EXCESS= .0000E+00 OUTFLOW= .9777E+01 BASIN STORAGE= .1239E-03 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P28qE  MANE        1.20     32.00    733.00       .22      5.00     32.00    735.00        .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9655E+01 EXCESS= .0000E+00 OUTFLOW= .9655E+01 BASIN STORAGE= .1239E-03 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P24sS  MANE        2.68    159.10    754.74      2.23      5.00    159.01    755.00       2.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2376E+02 EXCESS= .0000E+00 OUTFLOW= .2375E+02 BASIN STORAGE= .3682E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
P24sS  MANE        2.80    145.14    757.06      2.07      5.00    144.29    755.00       2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2204E+02 EXCESS= .0000E+00 OUTFLOW= .2203E+02 BASIN STORAGE= .3682E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
P24sS  MANE        2.74    135.84    757.50      1.96      5.00    135.76    760.00       1.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2088E+02 EXCESS= .0000E+00 OUTFLOW= .2088E+02 BASIN STORAGE= .3682E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
P24sS  MANE        2.91    126.61    758.78      1.85      5.00    126.47    760.00       1.85
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1970E+02 EXCESS= .0000E+00 OUTFLOW= .1970E+02 BASIN STORAGE= .3682E-03 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P24sS  MANE          2.91    123.61    759.86      1.81      5.00    123.55    760.00        1.81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1928E+02 EXCESS= .0000E+00 OUTFLOW= .1928E+02 BASIN STORAGE= .3682E-03 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P16qS  MANE          1.01    397.41    751.51       .86      5.00    394.58    750.00         .86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3956E+02 EXCESS= .0000E+00 OUTFLOW= .3956E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P16qS  MANE          1.08    330.87    752.64       .75      5.00    329.11    755.00         .75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3457E+02 EXCESS= .0000E+00 OUTFLOW= .3457E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P16qS  MANE          1.06    287.55    757.46       .68      5.00    284.59    755.00         .68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3124E+02 EXCESS= .0000E+00 OUTFLOW= .3123E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P16qS  MANE          1.09    243.91    757.89       .61      5.00    243.85    760.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2792E+02 EXCESS= .0000E+00 OUTFLOW= .2793E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P16qS  MANE          1.05    231.04    761.83       .58      5.00    229.70    760.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2679E+02 EXCESS= .0000E+00 OUTFLOW= .2679E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P16sS  MANE           .44    709.00    741.02       .46      5.00    709.00    745.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8014E+02 EXCESS= .0000E+00 OUTFLOW= .8014E+02 BASIN STORAGE= .5003E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =       10.00
           P16sS  MANE           .46    647.15    745.90       .41      5.00    642.22    745.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7186E+02 EXCESS= .0000E+00 OUTFLOW= .7186E+02 BASIN STORAGE= .5000E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       30.00
           P16sS  MANE           .48    554.83    750.17       .38      5.00    554.76    750.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6582E+02 EXCESS= .0000E+00 OUTFLOW= .6583E+02 BASIN STORAGE= .5002E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =       60.00
           P16sS  MANE           .33    498.30    735.82       .34      5.00    490.75    735.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5985E+02 EXCESS= .0000E+00 OUTFLOW= .5985E+02 BASIN STORAGE= .5004E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P16sS  MANE           .41    486.71    735.88       .33      5.00    476.38    735.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5778E+02 EXCESS= .0000E+00 OUTFLOW= .5779E+02 BASIN STORAGE= .5004E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P16qW  MANE          1.76    143.25    752.43       .31      5.00    141.48    755.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1430E+02 EXCESS= .0000E+00 OUTFLOW= .1430E+02 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .1
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FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P16qW  MANE        1.78    119.66    754.11       .27      5.00    119.42    755.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1250E+02 EXCESS= .0000E+00 OUTFLOW= .1250E+02 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P16qW  MANE        1.88    104.21    758.66       .25      5.00    103.07    760.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+02 EXCESS= .0000E+00 OUTFLOW= .1129E+02 BASIN STORAGE= .6079E-05 PERCENT ERROR=    .1

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P16qW  MANE        1.88     88.19    760.03       .22      5.00     88.17    760.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1010E+02 EXCESS= .0000E+00 OUTFLOW= .1009E+02 BASIN STORAGE= .6079E-05 PERCENT ERROR=    .1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P16qW  MANE        1.98     83.35    763.37       .21      5.00     82.50    760.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9687E+01 EXCESS= .0000E+00 OUTFLOW= .9691E+01 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P24oS  MANE        2.26     48.00    720.54       .49      5.00     48.00    725.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3113E+02 EXCESS= .0000E+00 OUTFLOW= .3113E+02 BASIN STORAGE= .2647E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P24oS  MANE        2.29     48.00    720.51       .47      5.00     48.00    725.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2988E+02 EXCESS= .0000E+00 OUTFLOW= .2988E+02 BASIN STORAGE= .2582E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P24oS  MANE        2.32     48.00    720.26       .45      5.00     48.00    725.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2902E+02 EXCESS= .0000E+00 OUTFLOW= .2902E+02 BASIN STORAGE= .2558E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P24oS  MANE        2.35     48.00    720.51       .44      5.00     48.00    725.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2813E+02 EXCESS= .0000E+00 OUTFLOW= .2813E+02 BASIN STORAGE= .2537E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P24oS  MANE        2.39     48.00    721.78       .43      5.00     48.00    725.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2781E+02 EXCESS= .0000E+00 OUTFLOW= .2781E+02 BASIN STORAGE= .2616E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P28pE  MANE        4.11     68.00    735.82       .17      5.00     68.00    740.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2760E+02 EXCESS= .0000E+00 OUTFLOW= .2761E+02 BASIN STORAGE= .1492E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P28pE  MANE        4.09     68.00    741.12       .16      5.00     68.00    745.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2650E+02 EXCESS= .0000E+00 OUTFLOW= .2651E+02 BASIN STORAGE= .1492E-02 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P28pE  MANE        4.17     68.00    741.15       .16      5.00     68.00    745.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2572E+02 EXCESS= .0000E+00 OUTFLOW= .2573E+02 BASIN STORAGE= .1493E-02 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P28pE  MANE        4.08     68.00    740.67       .15      5.00     68.00    745.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2489E+02 EXCESS= .0000E+00 OUTFLOW= .2489E+02 BASIN STORAGE= .1492E-02 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P28pE  MANE        4.17     68.00    738.88       .15      5.00     68.00    740.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2459E+02 EXCESS= .0000E+00 OUTFLOW= .2460E+02 BASIN STORAGE= .1492E-02 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P24sE  MANE        2.30     23.54    754.52       .33      5.00     23.49    755.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3503E+01 EXCESS= .0000E+00 OUTFLOW= .3504E+01 BASIN STORAGE= .4998E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =      10.00
   P24sE  MANE        2.36     21.40    754.31       .30      5.00     21.40    755.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3250E+01 EXCESS= .0000E+00 OUTFLOW= .3250E+01 BASIN STORAGE= .4998E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      30.00
   P24sE  MANE        2.50     20.04    755.70       .29      5.00     19.93    755.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3079E+01 EXCESS= .0000E+00 OUTFLOW= .3079E+01 BASIN STORAGE= .4998E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      60.00
   P24sE  MANE        2.41     18.72    758.96       .27      5.00     18.65    760.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2905E+01 EXCESS= .0000E+00 OUTFLOW= .2906E+01 BASIN STORAGE= .4998E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P24sE  MANE        2.42     18.29    759.85       .27      5.00     18.28    760.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2843E+01 EXCESS= .0000E+00 OUTFLOW= .2844E+01 BASIN STORAGE= .5000E-04 PERCENT ERROR=    .0


*** NORMAL END OF HEC-1 ***
```

APPENDIX C

HEC-1 Model Output File for the 100-Year, 6-Hour Storm

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   11JUL06  TIME  09:12:13  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
1                                    HEC-1 INPUT                                    PAGE  1

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

   1          ID   Project ID: METRO_6HOUR - Major Basin: 01 - Return Period: 100 Years
   2          ID   METRO PHOENIX ADMS/P - FCD2004C040: Wood/Patel in association with EEC
   3          ID   100-Year 6-Hour Storm
   4          ID   Maricopa County 6-hour Local Storm Distribution
   5          ID   Green and Ampt Loss Method
   6          ID   Clark Unit Hydrograph
   7          ID   Future Land Use Conditions
   8          ID   Model Name: FC06BASE.DAT, June 2006
   9          ID
  10          ID  ******************************************************************************
  11          ID   Important Notes:
  12          ID   1)  Peak flow for each subbasin may not concentrate on one single point,
  13          ID       for illustration purposes, it is assumed that the concentration point
  14          ID       is located on the hydrologic low point of the subbasin;
  15          ID   2)  Surface flow diversions may occur at several locations along one of the
  16          ID       subbasin downstream boundaries.  For simplicity, one split flow is
  17          ID       modeled for each subbasin to one direction;
  18          ID   3)  A fixed flow split ratio for most of the subbasin is used for all
  19          ID       frequencies except some of the subbasins along Grand Canal.
  20          ID   4)  Some subbasins have multiple pipes to one direction, a composite storm
  21          ID       drain pipe may have been used to model these conditions;
  22          ID   5)  Some subbasins have multiple detention/retention basins, an equivalent
  23          ID       detention/retention basin may have been used to model these conditions;
  24          ID   6)  Surface flow routing may occur at multiple streets and as sheet flow,
  25          ID       a composite channel cross section is used to represent the streets
  26          ID       flow conveyance.
  27          ID
  28          ID  ******************************************************************************
  29          ID   HEC-1 ELEMENT NOMENCLATURE
  30          ID
  31          ID   SUB-BASIN HYDROGRAPH:
  32          ID      Example: "80c" is the hydrograph from subbasin 80c
  33          ID
  34          ID   SUB-BASIN FLOW DIVERSION:
  35          ID      Example: "D80cS" is the south component of diversion in Subbasin 80c
  36          ID
  37          ID   PIPE FLOW DIVERSION:
  38          ID      Example: "80cP" is the pipe flow from Subbasin 80c
  39          ID
  40          ID   PIPE FLOW ROUTING:
  41          ID      Example: "P80cS" is the south component of pipe routing from Subbasin 80c
  42          ID
  43          ID   CHANNEL ROUTE:
  44          ID      Example: "R80cS" is the south component of surface flow routing from 80c
  45          ID
  46          ID   STORAGE ROUTE:
  47          ID      Example: "S80c" is the storage routing in Subbasin 80c
  48          ID
```

```
 49          ID   HYDROGRAPH COMBINE:
 50          ID      Example: "C80c" is the combined flow in Subbasin 80c
 51          ID
 52          ID   HYDROGRAPH RETRIEVAL:
 53          ID      Example: "B80c" is the retrieved flow from Subbasin 80c
 54          ID
 55          ID   "DUMMY" COMBINE:
1                                   HEC-1 INPUT                                                    PAGE  2

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 56          ID      Example: "NUL80C" is the dummy hydrograph combining to free up a HEC-1
 57          ID               computational path.
 58          ID   ******************************************************************************
 59          ID
 60          IT       5                    2000
 61          IN      15
 62          IO       5
             *DIAGRAM
             *
 63          JD    3.20    0.01
 64          PC   0.000   0.008   0.016   0.025   0.033   0.041   0.050   0.058   0.066   0.074
 65          PC   0.087   0.099   0.118   0.138   0.216   0.377   0.834   0.911   0.931   0.950
 66          PC   0.962   0.972   0.983   0.991   1.000
 67          JD   3.179    0.50
 68          PC   0.000   0.008   0.016   0.025   0.033   0.041   0.050   0.058   0.066   0.074
 69          PC   0.087   0.099   0.118   0.138   0.216   0.377   0.834   0.911   0.931   0.950
 70          PC   0.962   0.972   0.983   0.991   1.000
 71          JD   3.120    2.80
 72          PC   0.000   0.009   0.016   0.025   0.034   0.042   0.051   0.059   0.067   0.076
 73          PC   0.087   0.100   0.120   0.163   0.252   0.451   0.694   0.837   0.900   0.938
 74          PC   0.950   0.963   0.975   0.988   1.000
 75          JD   2.950    16.0
 76          PC   0.000   0.015   0.020   0.030   0.048   0.063   0.076   0.090   0.105   0.119
 77          PC   0.135   0.152   0.175   0.222   0.304   0.472   0.670   0.796   0.868   0.912
 78          PC   0.946   0.960   0.973   0.987   1.000
 79          JD   2.598    90.0
 80          PC   0.000   0.021   0.035   0.051   0.071   0.087   0.105   0.125   0.143   0.160
 81          PC   0.179   0.201   0.232   0.281   0.364   0.500   0.658   0.773   0.841   0.888
 82          PC   0.927   0.945   0.964   0.982   1.000
             *

 83          KK     64c   BASIN
 84          BA   0.264
 85          KM    Subbasin at NEC(northeast corner) of Northern Ave. & Central Ave.
 86          LG    1.00    0.24    4.55    0.41      20
 87          UC   0.772   0.579
 88          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 89          UA     100
             *

 90          KK   D64cW  DIVERT
 91          KM    Divert 68% of surface flow to south.
 92          DT   D64cS
 93          DI       0     100    1000   10000
 94          DQ       0      68     678    6776
             *

 95          KK   R64cW   ROUTE
 96          KM    Route surface flow west from Subbasin 64c to Subbasin 68c.
 97          RS       5    FLOW      -1
 98          RC   0.050   0.016   0.050    2640  0.0045
 99          RX       0     1.3      52   127.4   132.6     208   258.7     260
100          RY       3       1     0.5       0       0     0.5       1       3
             *
1                                   HEC-1 INPUT                                                    PAGE  3

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

101          KK     68c   BASIN
102          KM    Subbasin at NEC corner of Northern Ave. & 7th Ave.
103          BA   0.434
104          LG    1.68    0.25    4.60    0.39      18
105          UC   0.799   0.515
106          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
107          UA     100
             *

108          KK    C68c COMBINE
109          KM    Combine hydrographs 68c and R64cW at Northern and Central Avenues.
110          HC       2    0.70
             *

111          KK    D68c  DIVERT
112          KM    Divert 41 cfs into pipe (south).
```

```
113          DT   D68cP
114          DI       0      41    1000   10000
115          DQ       0      41      41      41
             *

116          KK   D68cW  DIVERT
117          KM    Divert surface flow to south.
118          DT   D68cS
119          DI       0     100    1000   10000
120          DQ       0      46     458    4576
             *

121          KK   R68cW   ROUTE
122          KM    Route surface flow west from Subbasin 68c to Subbasin 72c.
123          RS       4    FLOW      -1
124          RC   0.050   0.016   0.050    2640  0.0023
125          RX       0    1.85      74   181.3   188.7     296  368.15     370
126          RY       3       1     0.5       0       0     0.5       1       3
             *

127          KK     72c   BASIN
128          KM    Subbasin at NEC corner of Northern Ave. & 15th Ave.
129          BA   0.542
130          LG    1.94    0.25    4.80    0.35      13
131          UC   1.220   0.933
132          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
133          UA     100
             *

134          KK    C72c COMBINE
135          KM    Combine hydrographs 72c and R68cW at Northern and 15th Avenues.
136          HC       2    1.24
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

137          KK    D72c  DIVERT
138          KM    Divert 90 cfs into pipe (south).
139          DT   D72cP
140          DI       0      90    1000   10000
141          DQ       0      90      90      90
             *

142          KK   D72cW  DIVERT
143          KM    Divert 90% surface flow to south.
144          DT   D72cS
145          DI       0     100    1000   10000
146          DQ       0      90     900    9000
             *

147          KK   R72cW   ROUTE
148          KM    Route surface flow west from Subbasin 72c to Subbasin 76c.
149          RS       9    FLOW      -1
150          RC   0.050   0.016   0.050    2640  0.0008
151          RX       0    2.05      82   200.9   209.1     328  407.95     410
152          RY       3       1     0.5       0       0     0.5       1       3
             *

153          KK     76C   BASIN
154          KM    Subbasin at NEC corner of Northern Ave. & 19th Ave.
155          BA   0.602
156          LG    0.77    0.19    6.60    0.17      18
157          UC   0.755   0.476
158          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
159          UA     100
             *

160          KK    C76c COMBINE
161          KM    Combine hydrographs 76c and R72cW at Northern and 19th Avenues.
162          HC       2    1.84
             *

163          KK   D76cP  DIVERT
164          KM    Divert 39 (68% of 58) cfs into 19th Ave pipe (south).
165          DT    D76c
166          DI       0      39     100    1000   10000
167          DQ       0       0      61     961    9961
             *

168          KK     84c   BASIN
169          KM    Subbasin at NWC(northwest corner) of Northern Ave. & 23rd Ave.
170          BA   0.467
171          LG    0.24    0.25    6.00    0.23      42
172          UC   0.942   0.844
```

```
 173          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 174          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 175          KK   D84cE  DIVERT
 176          KM    Divert surface flow to south.
 177          DT   D84cS
 178          DI       0     100    1000   10000
 179          DQ       0      77     768    7682
              *

 180          KK   R84cE   ROUTE
 181          KM    Route surface flow east from Subbasin 84c to Subbasin 80c.
 182          RS       4    FLOW      -1
 183          RC   0.050   0.016   0.050    2640  0.0008
 184          RX       0     0.5      20      49      51      80    99.5     100
 185          RY       3       1     0.5       0       0     0.5       1       3
              *

 186          KK     80c   BASIN
 187          KM    Subbasin at NEC corner of Northern Ave. & 15th Ave.
 188          BA   0.661
 189          LG    0.83    0.25    5.20    0.33      33
 190          UC   0.874   0.573
 191          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 192          UA     100
              *

 193          KK    S80c STORAGE
 194          KM    Online Local Retention Basin, 4 ac-ft.
 195          RS       1    STOR       0
 196          SV       0       1     2.6     4.3      11
 197          SE       0       1       2       3       5
 198          SS       3     100     2.7     1.5
              *

 199          KK    C80c COMBINE
 200          KM    Combine hydrographs 80c and R84cE at Northern and 19th Avenues.
 201          HC       2    1.13
              *

 202          KK   D80cP  DIVERT
 203          KM    Divert 19 (32% of 58) cfs into 19th Ave pipe (south).
 204          DT    D80c
 205          DI       0      19     100    1000   10000
 206          DQ       0       0      81     981    9981
              *

 207          KK   C76cP COMBINE
 208          KM    Combine hydrographs into Storm Drain at Northern and 19th Avenues.
 209          HC       2    2.97
              *
1                                          HEC-1 INPUT                                          PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 210          KK   P76cS   ROUTE
 211          KM    Route pipe flow from Northern/19th Ave. to Glendale/19th Ave.
 212          RK    5300  0.0044   0.015            CIRC    3.50
              *

 213          KK  D76eP1  DIVERT
 214          KM    Divert 32% of pipe flow to 80e from 80c.
 215          DT  D80eP1
 216          DI       0     100    1000   10000
 217          DQ       0      32     320    3200
              *

 218          KK     56e   BASIN
 219          KM    Subbasin at NEC of Glendale Ave. & 12th St.
 220          BA   0.176
 221          LG    1.72    0.24    4.35    0.47      18
 222          UC   0.631   0.429
 223          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 224          UA     100
              *

 225          KK   D56eW  DIVERT
 226          KM    Divert surface flow to south.
 227          DT   D56eS
 228          DI       0     100    1000   10000
```

```
 229          DQ       0      53     525    5253
              *

 230          KK   R56eW   ROUTE
 231          KM    Route surface flow west from Subbasin 56e to Subbasin 60e.
 232          RS       6    FLOW      -1
 233          RC   0.050   0.016   0.050    2640  0.0053
 234          RX       0    1.75      70   171.5   178.5     280  348.25     350
 235          RY       3       1     0.5       0       0     0.5       1       3
              *

 236          KK     60e   BASIN
 237          KM    Subbasin at NEC of Glendale Ave. & 7th St.
 238          BA   0.406
 239          LG    1.35    0.25    4.45    0.45      21
 240          UC   0.884   0.670
 241          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 242          UA     100
              *

 243          KK    C60e COMBINE
 244          KM    Combine hydrographs 60e and R56eW.
 245          HC       2    0.58
              *
1                                        HEC-1 INPUT                                          PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 246          KK    D60e  DIVERT
 247          KM    Divert 75 cfs into pipe (south).
 248          DT   D60eP
 249          DI       0      75    1000   10000
 250          DQ       0      75      75      75
              *

 251          KK   D60eW  DIVERT
 252          KM    Divert surface flow to south.
 253          DT   D60eS
 254          DI       0     100    1000   10000
 255          DQ       0      34     342    3420
              *

 256          KK   R60eW   ROUTE
 257          KM    Route surface flow west from Subbasin 60e to Subbasin 64e.
 258          RS       6    FLOW      -1
 259          RC   0.050   0.016   0.050    2640  0.0038
 260          RX       0    3.85     154   377.3   392.7     616  766.15     770
 261          RY       3       1     0.5       0       0     0.5       1       3
              *

 262          KK     64e   BASIN
 263          KM    Subbasin at NEC of Glendale Ave. & Central Ave.
 264          BA   0.502
 265          LG    1.59    0.25    4.70    0.36      15
 266          UC   0.962   0.726
 267          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 268          UA     100
              *

 269          KK   B64cS RETRIEVE
 270          KM    Retrieve diverted surface flow from D64cS.
 271          DR   D64cS
              *

 272          KK   R64cS   ROUTE
 273          KM    Route surface flow south from Subbasin 64c to Subbasin 64e.
 274          RS       6    FLOW      -1
 275          RC   0.050   0.016   0.050    5280  0.0072
 276          RX       0     1.8      72   176.4   183.6     288   358.2     360
 277          RY       3       1     0.5       0       0     0.5       1       3
              *

 278          KK    C64e COMBINE
 279          KM    Combine hydrographs 64e, R64cS, and R60eW.
 280          HC       3    1.35
              *
1                                        HEC-1 INPUT                                          PAGE  8

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 281          KK   D64eW  DIVERT
 282          KM    Divert surface flow to south.
 283          DT   D64eS
 284          DI       0     100    1000   10000
```

```
285          DQ       0      50     500    5000
             *

286          KK   R64eW   ROUTE
287          KM    Route surface flow west from Subbasin 64e to Subbasin 68e.
288          RS       3    FLOW      -1
289          RC   0.050   0.016   0.050    2640  0.0034
290          RX       0    1.55      62   151.9   158.1     248  308.45     310
291          RY       3       1     0.5       0       0     0.5       1       3
             *

292          KK     68e   BASIN
293          KM    Subbasin at NEC of Glendale Ave. & 7th Ave.
294          BA   0.496
295          LG    1.58    0.25    4.80    0.35      14
296          UC   0.991   0.755
297          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
298          UA     100
             *

299          KK   B68cP RETRIEVE
300          KM    Retrieve diverted pipe flow from D68cP.
301          DR   D68cP
             *

302          KK   P68cS   ROUTE
303          KM    Route pipe flow from Northern/7th Ave. to Glendale/7th Ave.
304          RK    5300  0.0033   0.015           CIRC     3.25
             *

305          KK   B68cS RETRIEVE
306          KM    Retrieve diverted surface flow from D68cS.
307          DR   D68cS
             *

308          KK   R68cS   ROUTE
309          KM    Route surface flow south from Subbasin 68c to Subbasin 68e.
310          RS       6    FLOW      -1
311          RC   0.050   0.016   0.050    5280  0.0066
312          RX       0    1.05      42   102.9   107.1     168  208.95     210
313          RY       3       1     0.5       0       0     0.5       1       3
             *

314          KK   C68cS COMBINE
315          KM    Combine hydrographs R68cS and P68cS.
316          HC       2    0.70
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

317          KK    C68e COMBINE
318          KM    Combine hydrographs 68e, C68cS, and R64eW.
319          HC       3    2.28
             *

320          KK    D68e  DIVERT
321          KM    Divert 63 cfs into pipe (south).
322          DT   D68eP
323          DI       0      63    1000   10000
324          DQ       0      63      63      63
             *

325          KK   D68eW  DIVERT
326          KM    Divert surface flow to south.
327          DT   D68eS
328          DI       0     100    1000   10000
329          DQ       0      54     539    5391
             *

330          KK   R68eW   ROUTE
331          KM    Route surface flow west from Subbasin 68e to Subbasin 72e.
332          RS       3    FLOW      -1
333          RC   0.050   0.016   0.050    2640  0.0019
334          RX       0    1.55      62   151.9   158.1     248  308.45     310
335          RY       3       1     0.5       0       0     0.5       1       3
             *

336          KK     72e   BASIN
337          KM    Subbasin at NEC of Glendale Ave. & 15th Ave.
338          BA   0.499
339          LG    1.62    0.25    4.80    0.35      19
340          UC   1.001   0.761
341          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
342          UA     100
```

```
                *

 343            KK   B72cP RETRIEVE
 344            KM    Retrieve diverted pipe flow from D72cP.
 345            DR   D72cP
                *

 346            KK   P72cS   ROUTE
 347            KM    Route pipe flow from Northern/15th Ave. to Glendale/15th Ave.
 348            RK    5300  0.0052   0.015           CIRC     4.00
                *

 349            KK   B72cS RETRIEVE
 350            KM    Retrieve diverted surface flow from D72cS.
 351            DR   D72cS
                *
1                                          HEC-1 INPUT                                                    PAGE 10

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 352            KK   R72cS   ROUTE
 353            KM    Route surface flow south from Subbasin 72c to Subbasin 72e.
 354            RS       6    FLOW      -1
 355            RC   0.050   0.016   0.050    5280  0.0055
 356            RX       0    1.55      62   151.9   158.1     248  308.45     310
 357            RY       3       1     0.5       0       0     0.5       1       3
                *

 358            KK   C72cS COMBINE
 359            KM    Combine hydrographs R72cS and P72cS.
 360            HC       2    1.24
                *

 361            KK    C72e COMBINE
 362            KM    Combine hydrographs 72e, C72cS, and R68eW.
 363            HC       3    3.32
                *

 364            KK    D72e  DIVERT
 365            KM    Divert 195 cfs into pipe (south).
 366            DT   D72eP
 367            DI       0     100     195   10000
 368            DQ       0     100     195     195
                *

 369            KK   D72eW  DIVERT
 370            KM    Divert 90% surface flow to south.
 371            DT   D72eS
 372            DI       0     100    1000   10000
 373            DQ       0      90     900    9000
                *

 374            KK   R72eW   ROUTE
 375            KM    Route surface flow west from Subbasin 72e to Subbasin 76e.
 376            RS       9    FLOW      -1
 377            RC   0.050   0.016   0.050    2640  0.0004
 378            RX       0    1.65      66   161.7   168.3     264  328.35     330
 379            RY       3       1     0.5       0       0     0.5       1       3
                *

 380            KK     76e   BASIN
 381            KM    Subbasin at NEC of Glendale Ave. & 19th Ave.
 382            BA   0.499
 383            LG    1.17    0.25    5.20    0.30      22
 384            UC   0.927   0.609
 385            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 386            UA     100
                *
1                                          HEC-1 INPUT                                                    PAGE 11

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 387            KK    B76c RETRIEVE
 388            KM    Retrieve diverted surface flow from D76c.
 389            DR    D76c
                *

 390            KK   R76cS   ROUTE
 391            KM    Route surface flow south from Subbasin 76c to Subbasin 76e.
 392            RS       5    FLOW      -1
 393            RC   0.050   0.016   0.050    5280  0.0036
 394            RX       0       1      40      98     102     160     199     200
 395            RY       3       1     0.5       0       0     0.5       1       3
                *
```

```
396          KK    C76e COMBINE
397          KM    Combine hydrographs 76e, R72eW, D76eP1, and R76cS.
398          HC       4    4.42
             *

399          KK   D76eP  DIVERT
400          KM    Divert 21 (27% of 76) cfs into 19th Ave pipe (south).
401          DT    D76e
402          DI       0      21     100    1000   10000
403          DQ       0       0      79     979    9979
             *

404          KK  BD84cS RETRIEVE
405          KM    Retrieve diverted surface flow from D84cS.
406          DR   D84cS
             *

407          KK   R84cS   ROUTE
408          KM    Route surface flow south from Subbasin 84c to Subbasin 84e.
409          RS       4    FLOW      -1
410          RC   0.050   0.016   0.050    5280  0.0042
411          RX       0    0.75      30    73.5    76.5     120  149.25     150
412          RY       3       1     0.5       0       0     0.5       1       3
             *

413          KK     84e   BASIN
414          KM    Subbasin at NWC of Glendale Ave. & 23rd Ave.
415          BA   0.214
416          LG    1.19    0.15    7.30    0.13      23
417          UC   0.933   0.999
418          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
419          UA     100
             *

420          KK    C84e COMBINE
421          KM    Combine hydrographs 84e and R84cS.
422          HC       2    0.68
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

423          KK   D84eE  DIVERT
424          KM    Divert surface flow to south.
425          DT   D84eS
426          DI       0     100    1000   10000
427          DQ       0      39     395    3950
             *

428          KK   R84eE   ROUTE
429          KM    Route surface flow east from Subbasin 84e to Subbasin 80e.
430          RS       6    FLOW      -1
431          RC   0.050   0.016   0.050    2640  0.0005
432          RX       0    1.85      74   181.3   188.7     296  368.15     370
433          RY       3       1     0.5       0       0     0.5       1       3
             *

434          KK     80e   BASIN
435          KM    Subbasin at NWC of Glendale Ave. & 19th Ave.
436          BA   0.494
437          LG    0.74    0.25    6.00    0.22      23
438          UC   0.858   0.561
439          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
440          UA     100
             *

441          KK  B80eP1 RETRIEVE
442          KM    Retrieve diverted pipe flow from D80eP1.
443          DR  D80eP1
             *

444          KK   BD80c RETRIEVE
445          KM    Retrieve diverted surface flow from D80c.
446          DR    D80c
             *

447          KK   R80cS   ROUTE
448          KM    Route surface flow south from Subbasin 80c to Subbasin 80e.
449          RS       4    FLOW      -1
450          RC   0.050   0.016   0.050    5280  0.0036
451          RX       0       1      40      98     102     160     199     200
452          RY       3       1     0.5       0       0     0.5       1       3
             *
```

```
453          KK    C80e COMBINE
454          KM    Combine hydrographs 80e,R84eE, R80cS, and D80eP1.
455          HC       4    1.84
             *

456          KK   D80eP  DIVERT
457          KM    Divert 55 (73% of 76) cfs into 19th Ave pipe (south).
458          DT    D80e
459          DI       0      55     100    1000   10000
460          DQ       0       0      45     945    9945
             *
1                                          HEC-1 INPUT                                                    PAGE 13

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

461          KK   C76eP COMBINE
462          KM    Combine hydrographs D80eP and D76eP into 19th Ave pipe.
463          HC       2    6.26
             *

464          KK   P76eS   ROUTE
465          KM    Route pipe flow from Glendale/19th Ave. to Bethany/19th Ave.
466          RK    5300  0.0037   0.015           CIRC     4.00
             *

467          KK  D76gP1  DIVERT
468          KM    Divert 73% of pipe flow to 80g from 80e.
469          DT  D80gP1
470          DI       0     100    1000   10000
471          DQ       0      73     730    7300
             *

472          KK     76g   BASIN
473          KM    Subbasin at NWC of Bethany Home & 15th Ave.
474          BA   0.501
475          LG    1.08    0.25    5.60    0.26      28
476          UC   0.859   0.558
477          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
478          UA     100
             *

479          KK   BD76e RETRIEVE
480          KM    Retrieve diverted surface flow from D76e.
481          DR    D76e
             *

482          KK   R76eS   ROUTE
483          KM    Route surface flow south from Subbasin 76e to Subbasin 76g.
484          RS       5    FLOW      -1
485          RC   0.050   0.016   0.050    5280  0.0040
486          RX       0    1.05      42   102.9   107.1     168  208.95     210
487          RY       3       1     0.5       0       0     0.5       1       3
             *

488          KK    C76g COMBINE
489          KM    Combine hydrographs 76g, R76eS, and D76gP1.
490          HC       3    4.92
             *

491          KK   D76g1  DIVERT
492          KM    Divert 48 cfs into pipe (15th Ave).
493          DT  D76gP2
494          DI       0      48    1000   10000
495          DQ       0      48      48      48
             *
1                                          HEC-1 INPUT                                                    PAGE 14

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

496          KK    D76g  DIVERT
497          KM    Divert 57 (75% of 76) cfs into 19th Ave pipe (south).
498          DT   D76gP
499          DI       0      57     100    1000   10000
500          DQ       0      57      57      57      57
             *

501          KK   D76gE  DIVERT
502          KM    Divert surface flow to south.
503          DT   D76gS
504          DI       0     100    1000   10000
505          DQ       0      70     700    7000
             *

506          KK   R76gE   ROUTE
```

```
507          KM    Route surface flow east from Subbasin 76g to Subbasin 72g.
508          RS       3    FLOW      -1
509          RC   0.050   0.016   0.050    1000  0.0008
510          RX       0     1.4      56   137.2   142.8     224   278.6     280
511          RY       3       1     0.5       0       0     0.5       1       3
             *

512          KK  B76gP2 RETRIEVE
513          KM    Retrieve diverted pipe flow from D76gP2.
514          DR  D76gP2
             *

515          KK   C76gE COMBINE
516          KM    Combine hydrographs D76gP2 and R76gE.
517          HC       2    4.92
             *

518          KK     54g   BASIN
519          KM    Subbasin at NEC of Bethany Home & 16th St.
520          BA   0.247
521          LG    0.95    0.25    4.65    0.39      26
522          UC   0.573   0.431
523          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
524          UA     100
             *

525          KK   D54gW  DIVERT
526          KM    Divert surface flow to south.
527          DT   D54gS
528          DI       0     100    1000   10000
529          DQ       0      40     405    4050
             *

530          KK   R54gW   ROUTE
531          KM    Route surface flow west from Subbasin 54g to Subbasin 56g.
532          RS       4    FLOW      -1
533          RC   0.050   0.016   0.050    2636  0.0030
534          RX       0    1.95      78   191.1   198.9     312  388.05     390
535          RY       3       1     0.5       0       0     0.5       1       3
             *
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

536          KK     56g   BASIN
537          KM    Subbasin at NEC of Bethany Home & 12th St.
538          BA   0.500
539          LG    1.70    0.25    4.35    0.47      23
540          UC   0.849   0.634
541          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
542          UA     100
             *

543          KK   B56eS RETRIEVE
544          KM    Retrieve diverted surface flow from D56eS.
545          DR   D56eS
             *

546          KK   R56eS   ROUTE
547          KM    Route surface flow south from Subbasin 56e to Subbasin 56g.
548          RS       6    FLOW      -1
549          RC   0.050   0.016   0.050    5280  0.0106
550          RX       0     1.8      72   176.4   183.6     288   358.2     360
551          RY       3       1     0.5       0       0     0.5       1       3
             *

552          KK    C56g COMBINE
553          KM    Combine hydrographs 56g, R56eS, and R54gW.
554          HC       3    0.92
             *

555          KK    D56g  DIVERT
556          KM    Divert 130 cfs into pipe (south).
557          DT   D56gP
558          DI       0     100     130   10000
559          DQ       0     100     130     130
             *

560          KK   D56gW  DIVERT
561          KM    Divert surface flow to south.
562          DT   D56gS
563          DI       0     100    1000   10000
564          DQ       0      56     561    5614
             *
```

```
565          KK   R56gW   ROUTE
566          KM    Route surface flow west from Subbasin 56g to Subbasin 60g.
567          RS       5    FLOW      -1
568          RC   0.050   0.016   0.050    2636  0.0030
569          RX       0     1.9      76   186.2   193.8     304   378.1     380
570          RY       3       1     0.5       0       0     0.5       1       3
             *
1                                          HEC-1 INPUT                                                    PAGE 16

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


571          KK     60g   BASIN
572          KM    Subbasin at NEC of Bethany Home & 7th St.
573          BA   0.500
574          LG    1.51    0.25    4.65    0.39      25
575          UC   0.873   0.653
576          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
577          UA     100
             *

578          KK   B60eP RETRIEVE
579          KM    Retrieve diverted pipe flow from D60eP.
580          DR   D60eP
             *

581          KK   P60eS   ROUTE
582          KM    Route pipe flow from Glendale/7th St. to Bethany/7th St.
583          RK    5300  0.0074   0.015           CIRC     3.50
             *

584          KK   B60eS RETRIEVE
585          KM    Retrieve diverted surface flow from D60eS.
586          DR   D60eS
             *

587          KK   R60eS   ROUTE
588          KM    Route surface flow south from Subbasin 6oe to Subbasin 60g.
589          RS       6    FLOW      -1
590          RC   0.050   0.016   0.050    5280  0.0091
591          RX       0    1.55      62   151.9   158.1     248  308.45     310
592          RY       3       1     0.5       0       0     0.5       1       3
             *

593          KK   C60eS COMBINE
594          KM    Combine hydrographs R60eS and P60eS.
595          HC       2    0.58
             *

596          KK    C60g COMBINE
597          KM    Combine hydrographs 60g, R56gW, and C60eS.
598          HC       3    1.83
             *

599          KK    D60g  DIVERT
600          KM    Divert 124 cfs into pipe (south).
601          DT   D60gP
602          DI       0     100     124   10000
603          DQ       0     100     124     124
             *
1                                          HEC-1 INPUT                                                    PAGE 17

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


604          KK   D60gW  DIVERT
605          KM    Divert surface flow to south.
606          DT   D60gS
607          DI       0     100    1000   10000
608          DQ       0      47     470    4701
             *

609          KK   R60gW   ROUTE
610          KM    Route surface flow west from Subbasin 60g to Subbasin 64g.
611          RS       3    FLOW      -1
612          RC   0.050   0.016   0.050    2640  0.0023
613          RX       0    2.05      82   200.9   209.1     328  407.95     410
614          RY       3       1     0.5       0       0     0.5       1       3
             *

615          KK     64g   BASIN
616          KM    Subbasin at NEC of Bethany Home & Central Ave.
617          BA   0.502
618          LG    1.76    0.25    4.80    0.36      20
619          UC   0.972   0.734
620          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
```

```
621          UA     100
             *

622          KK   B64eS RETRIEVE
623          KM    Retrieve diverted surface flow from D64eS.
624          DR   D64eS
             *

625          KK   R64eS   ROUTE
626          KM    Route surface flow south from Subbasin 64e to Subbasin 64g.
627          RS       6    FLOW      -1
628          RC   0.050   0.016   0.050    5280  0.0076
629          RX       0    1.75      70   171.5   178.5     280  348.25     350
630          RY       3       1     0.5       0       0     0.5       1       3
             *

631          KK    C64g COMBINE
632          KM    Combine hydrographs 64g, R60gW, and R64eS.
633          HC       3    3.10
             *

634          KK    D64g  DIVERT
635          KM    Divert 153 cfs into pipe.
636          DT   D64gP
637          DI       0     100     153   10000
638          DQ       0     100     153     153
             *
1                                        HEC-1 INPUT                                                    PAGE 18

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

639          KK   D64gW  DIVERT
640          KM    Divert surface flow to south.
641          DT   D64gS
642          DI       0     100    1000   10000
643          DQ       0      48     480    4800
             *

644          KK   R64gW   ROUTE
645          KM    Route surface flow west from Subbasin 64g to Subbasin 68g.
646          RS       3    FLOW      -1
647          RC   0.050   0.016   0.050    2640  0.0019
648          RX       0     1.3      52   127.4   132.6     208   258.7     260
649          RY       3       1     0.5       0       0     0.5       1       3
             *

650          KK     68g   BASIN
651          KM    Subbasin at NEC of Bethany Home & 7th Ave.
652          BA   0.502
653          LG    1.98    0.25    4.80    0.36      17
654          UC   1.153   0.888
655          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
656          UA     100
             *

657          KK   B68eP RETRIEVE
658          KM    Retrieve diverted pipe flow from D68eP.
659          DR   D68eP
             *

660          KK   P68eS   ROUTE
661          KM    Route pipe flow from Glendale/7th Ave. to Bethany/7th Ave.
662          RK    5300  0.0052   0.015           CIRC     3.50
             *

663          KK   B68eS RETRIEVE
664          KM    Retrieve diverted surface flow from D68eS.
665          DR   D68eS
             *

666          KK   R68eS   ROUTE
667          KM    Route surface flow south from Subbasin 68e to Subbasin 68g.
668          RS       3    FLOW      -1
669          RC   0.050   0.016   0.050    5280  0.0063
670          RX       0     1.3      52   127.4   132.6     208   258.7     260
671          RY       3       1     0.5       0       0     0.5       1       3
             *

672          KK   C68eS COMBINE
673          KM    Combine hydrographs R68eS and P68eS.
674          HC       2    2.28
             *
1                                        HEC-1 INPUT                                                    PAGE 19

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
675          KK    C68g COMBINE
676          KM    Combine hydrographs 68g, C68eS, and R64gW.
677          HC       3     4.53
             *

678          KK    D68g  DIVERT
679          KM    Divert 82 cfs into pipe.
680          DT   D68gP
681          DI       0       82    1000   10000
682          DQ       0       82      82      82
             *

683          KK   D68gW  DIVERT
684          KM    Divert surface flow to south.
685          DT   D68gS
686          DI       0      100    1000   10000
687          DQ       0       56     560    5600
             *

688          KK   R68gW   ROUTE
689          KM    Route surface flow west from Subbasin 68g to Subbasin 72g.
690          RS       4     FLOW      -1
691          RC   0.050   0.016   0.050    2640  0.0008
692          RX       0    1.05      42   102.9   107.1     168  208.95     210
693          RY       3       1     0.5       0       0     0.5       1       3
             *

694          KK    72g    BASIN
695          KM    Subbasin at NEC of Bethany Home & 15th Ave.
696          BA   0.500
697          LG    1.30    0.25    5.60    0.27      20
698          UC   1.032   0.787
699          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
700          UA     100
             *

701          KK   B72eP RETRIEVE
702          KM    Retrieve diverted pipe flow from D72eP.
703          DR   D72eP
             *

704          KK   P72eS   ROUTE
705          KM    Route pipe flow from Glendale/15th Ave. to Bethany/15th Ave.
706          RK    5300  0.0058   0.015           CIRC     5.25
             *

707          KK   B72eS RETRIEVE
708          KM    Retrieve diverted surface flow from D72eS.
709          DR   D72eS
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

710          KK   R72eS   ROUTE
711          KM    Route surface flow south from Subbasin 72e to Subbasin 72g.
712          RS       5     FLOW      -1
713          RC   0.050   0.016   0.050    5280  0.0047
714          RX       0    1.75      70   171.5   178.5     280  348.25     350
715          RY       3       1     0.5       0       0     0.5       1       3
             *

716          KK   C72eS COMBINE
717          KM    Combine hydrographs R72eS and P72eS.
718          HC       2     3.32
             *

719          KK    C72g COMBINE
720          KM    Combine hydrographs 72g, C72eS, and R68gW.
721          HC       3     6.07
             *

722          KK   CC72g COMBINE
723          KM    Combine hydrographs C72g and C76gE.
724          HC       2     7.67
             *

725          KK    D72g  DIVERT
726          KM    Divert 178 cfs into pipe.
727          DT   D72gP
728          DI       0      100     178   10000
729          DQ       0      100     178     178
             *
```

```
730          KK   R72gS   ROUTE
731          KM    Route surface flow south from Subbasin 72g to Subbasin 72i.
732          RS       3    FLOW      -1
733          RC   0.050   0.016   0.050    5280  0.0040
734          RX       0     1.3      52   127.4   132.6     208   258.7     260
735          RY       3       1     0.5       0       0     0.5       1       3
             *

736          KK  BD72gP RETRIEVE
737          KM    Retrieve diverted pipe flow from D72gP.
738          DR   D72gP
             *

739          KK   P72gS   ROUTE
740          KM    Route pipe flow from Bethany/15th Ave. to Camelback/15th Ave.
741          RK    5300  0.0024   0.015            CIRC     6.00
             *

742          KK   C72gS COMBINE
743          KM    Combine hydrographs R72gS and P72gS.
744          HC       2    7.67
             *
1                                        HEC-1 INPUT                                                    PAGE 21

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

745          KK     84g   BASIN
746          KM   Subbasin at NWC of Bethany Home & 23rd Ave.
747          BA   0.214
748          LG    0.61    0.25    4.80    0.36      27
749          UC   0.859   0.906
750          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
751          UA     100
             *

752          KK   B84eS RETRIEVE
753          KM    Retrieve diverted surface flow from D84eS.
754          DR   D84eS
             *

755          KK   R84eS   ROUTE
756          KM    Route surface flow south from Subbasin 84e to Subbasin 84g.
757          RS       6    FLOW      -1
758          RC   0.050   0.016   0.050    5280  0.0042
759          RX       0       1      40      98     102     160     199     200
760          RY       3       1     0.5       0       0     0.5       1       3
             *

761          KK    C84g COMBINE
762          KM    Combine hydrographs 84g and R84eS.
763          HC       2    0.90
             *

764          KK   D84gE  DIVERT
765          KM    Divert surface flow to south.
766          DT   D84gS
767          DI       0     100    1000   10000
768          DQ       0      47     474    4742
             *

769          KK   R84gE   ROUTE
770          KM    Route surface flow east from Subbasin 84g to Subbasin 80g.
771          RS       6    FLOW      -1
772          RC   0.050   0.016   0.050    2640  0.0005
773          RX       0     1.4      56   137.2   142.8     224   278.6     280
774          RY       3       1     0.5       0       0     0.5       1       3
             *

775          KK     80g   BASIN
776          KM    Subbasin at NWC of Bethany Home & 19th Ave.
777          BA   0.496
778          LG    0.89    0.25    4.80    0.39      23
779          UC   0.976   0.646
780          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
781          UA     100
             *
1                                        HEC-1 INPUT                                                    PAGE 22

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

782          KK   BD80e RETRIEVE
783          KM    Retrieve diverted surface flow from D80e.
784          DR    D80e
```

```
*

KK   R80eS   ROUTE
KM    Route surface flow south from Subbasin 80e to Subbasin 80g.
RS       3    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0040
RX       0    1.05      42   102.9   107.1     168  208.95     210
RY       3       1     0.5       0       0     0.5       1       3
*

KK  B80gP1 RETRIEVE
KM    Retrieve diverted pipe flow from D80gP1.
DR  D80gP1
*

KK    C80g COMBINE
KM    Combine hydrographs 80g, R84gE, R80eS, and D80gP1.
HC       4    2.55
*

KK   D80gP  DIVERT
KM    Divert 19 (25% of 76) cfs into pipe (south).
DT    D80g
DI       0      19     100    1000   10000
DQ       0       0      81     981    9981
*

KK   B76gP RETRIEVE
KM    Retrieve diverted pipe flow from D76gP.
DR   D76gP
*

KK   C76gP COMBINE
KM    Combine hydrographs D76gP and D80gP.
HC       2    7.47
*

KK   P76gS   ROUTE
KM    Route pipe flow from Bethany/19th Ave. to Camelback/19th Ave.
RK    5300  0.0037   0.015           CIRC     4.00
*

KK  D76iP1  DIVERT
KM    Divert 25% of pipe flow from 80g to 80i.
DT  D80iP1
DI       0     100    1000   10000
DQ       0      25     250    2500
*
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK     76i   BASIN
KM    Subbasin at NWC of Camelback Rd. & 15th Ave.
BA   0.499
LG    0.72    0.25    5.40    0.29      44
UC   0.875   0.570
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK  BD76gS RETRIEVE
KM    Retrieve diverted surface flow from D76gS.
DR   D76gS
*

KK   R76gS   ROUTE
KM    Route surface flow south from Subbasin 76g to Subbasin 76i.
RS       3    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0034
RX       0    0.75      30    73.5    76.5     120  149.25     150
RY       3       1     0.5       0       0     0.5       1       3
*

KK    C76i COMBINE
KM    Combine hydrographs D76iP1, R76gS, and 76i.
HC       3    5.42
*

KK  D76iP2  DIVERT
KM   Divert 48 cfs flow into 15th Ave pipe.
DT   D76i1
DI       0      48     100    1000   10000
DQ       0       0      52     952    9952
*
```

```
840          KK     72i   BASIN
841          KM    Subbasin at NEC of Camelback Rd. & 7th Ave.
842          BA   0.504
843          LG    0.92    0.25    4.80    0.36      22
844          UC   0.991   0.749
845          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
846          UA     100
             *

847          KK    C72i COMBINE
848          KM    Combine hydrographs 72i, C72gS, and D76iP2.
849          HC       3    8.68
             *

850          KK   D72iP  DIVERT
851          KM   Divert flow into pipe.
852          KM   Total Pipe flow is 258 cfs
853          DT    D72i
854          DI       0     258    1000   10000
855          DQ       0       0     742    9742
             *
1                                        HEC-1 INPUT                                          PAGE 24

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

856          KK  D72iP2  DIVERT
857          KM   Divert flow into pipe.
858          KM   Flow of pipe 2 to west is 32, flow of pipe 1 to south is 226 cfs
859          DT  D72iP1
860          DI       0     258     300
861          DQ       0     226     226
             *

862          KK   P72iW   ROUTE
863          KM    Route pipe flow from Camelback/15th Ave. to Camelback/19th Ave.
864          RK    2600  0.0030   0.015            CIRC      4.0
             *

865          KK  BD76i1 RETRIEVE
866          KM    Retrieve diverted flow from D76i1.
867          DR   D76i1
             *

868          KK   CC76i COMBINE
869          KM    Combine hydrographs D76i1,and P72iW.
870          HC       2    5.92
             *

871          KK   D76iP  DIVERT
872          KM   Divert 78 (74% of 106) cfs flow into pipe.
873          DT    D76i
874          DI       0      78     100    1000   10000
875          DQ       0       0      22     922    9922
             *
             *

876          KK  BD84gS RETRIEVE
877          KM    Retrieve diverted surface flow from D84gS.
878          DR   D84gS
             *

879          KK   R84gS   ROUTE
880          KM    Route surface flow south from Subbasin 84g to Subbasin 84i.
881          RS       6    FLOW      -1
882          RC   0.050   0.016   0.050    5280  0.0038
883          RX       0    0.75      30    73.5    76.5     120  149.25     150
884          RY       3       1     0.5       0       0     0.5       1       3
             *

885          KK     84i   BASIN
886          KM    Subbasin at NWC of Camelback Rd. & 23rd Ave.
887          BA   0.211
888          LG    0.99    0.25    5.20    0.31      27
889          UC   0.956   1.041
890          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
891          UA     100
             *
1                                        HEC-1 INPUT                                          PAGE 25

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

892          KK    C84i COMBINE
893          KM    Combine hydrographs 84i and R84gS.
```

```
894          HC       2    1.11
             *

895          KK    S84i STORAGE
896          KM    Online Regional Retention Basin - Phase A Basin of 24th Ave & Camelback Rd.
897          RS       1    STOR       0
898          SV       0       8      17      22      27      32      50
899          SE       0       2       4       5       6       7       9
900          SS       7     100     2.7     1.5
             *

901          KK   D84iE  DIVERT
902          KM    Divert surface flow to south.
903          DT   D84iS
904          DI       0     100    1000   10000
905          DQ       0      39     387    3873
             *

906          KK   R84iE  ROUTE
907          KM    Route surface flow east from Subbasin 84i to Subbasin 80i.
908          RS       9    FLOW      -1
909          RC   0.050   0.016   0.050    2640  0.0015
910          RX       0     1.4      56   137.2   142.8     224   278.6     280
911          RY       3       1     0.5       0       0     0.5       1       3
             *

912          KK     80i   BASIN
913          KM    Subbasin at NWC of Camelback Rd. & 19th Ave.
914          BA   0.494
915          LG    0.47    0.25    5.70    0.24      23
916          UC   0.848   0.554
917          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
918          UA     100
             *

919          KK   BD80g RETRIEVE
920          KM    Retrieve diverted flow from D80g.
921          DR    D80g
             *

922          KK    S80g STORAGE
923          KM    Online Regional Detention Basin, 0.9 ac-ft.
924          RS       1    STOR       0
925          SV       0     0.2     0.5     0.9     1.4     3.0
926          SE       0       1       2       3       4       5
927          SL       0   0.785    0.62     0.5
928          SS       3     300     2.7     1.5
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

929          KK   R80gS   ROUTE
930          KM    Route surface flow south from Subbasin 80g to Subbasin 80i.
931          RS       3    FLOW      -1
932          RC   0.050   0.016   0.050    5280  0.0034
933          RX       0    0.75      30    73.5    76.5     120  149.25     150
934          RY       3       1     0.5       0       0     0.5       1       3
             *

935          KK  B80iP1 RETRIEVE
936          KM    Retrieve diverted pipe flow from D80iP1.
937          DR  D80iP1
             *

938          KK    C80i COMBINE
939          KM    Combine hydrographs 80i,R84E,R80gS, and D80iP1.
940          HC       4    3.25
             *

941          KK   D80iP  DIVERT
942          KM    Divert 28 (26% of 106) cfs into pipe.
943          DT    D80i
944          DI       0      28     100    1000   10000
945          DQ       0       0      72     972    9972
             *

946          KK   C76iP COMBINE
947          KM    Combine hydrographs D80iP and D76iP.
948          HC       2    9.18
             *

949          KK   P76iS   ROUTE
950          KM    Route pipe flow from Camelback/19th Ave. to Grand Canal/19th Ave.
951          RK    3500  0.0039   0.015           CIRC     4.50
```

```
                 *

 952             KK  D76kP1  DIVERT
 953             KM    Divert 26% of pipe flow from 80i to 80k.
 954             DT  D80kP1
 955             DI       0     100    1000   10000
 956             DQ       0      26     260    2600
                 *

 957             KK     76k   BASIN
 958             KM    Subbasin at NEC of Grand Canal & 19th Ave.
 959             BA   0.317
 960             LG    0.55    0.15    7.00    0.14      28
 961             UC   0.711   0.441
 962             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 963             UA     100
                 *
1                                          HEC-1 INPUT                                          PAGE 27

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 964             KK   BD76i RETRIEVE
 965             KM    Retrieve diverted surface flow from D76i.
 966             DR    D76i
                 *

 967             KK   D76iS  DIVERT
 968             KM    Divert surface flow to east.
 969             DT   D76iE
 970             DI       0     100    1000   10000
 971             DQ       0      32     320    3200
                 *

 972             KK   R76iS   ROUTE
 973             KM    Route surface flow south from Subbasin 76i to Subbasin 76k.
 974             RS       3    FLOW      -1
 975             RC   0.050   0.016   0.050    3500  0.0038
 976             RX       0    0.75      30    73.5    76.5     120  149.25     150
 977             RY       3       1     0.5       0       0     0.5       1       3
                 *

 978             KK    C76k COMBINE
 979             KM    Combine hydrographs D76kP1, R76iS, and 76k.
 980             HC       3    5.74
                 *

 981             KK  D76kP2  DIVERT
 982             KM    Divert flow into pipe.
 983             KM    Pipe flow to east is 32 cfs
 984             DT   D76k1
 985             DI       0      32     100    1000   10000
 986             DQ       0       0      68     968    9968
                 *

 987             KK     54i   BASIN
 988             KM    Subbasin at NEC of Camelback Rd. & 16th St.
 989             BA   0.192
 990             LG    1.22    0.25    4.80    0.39      33
 991             UC   0.735   0.764
 992             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 993             UA     100
                 *

 994             KK  BD54gS RETRIEVE
 995             KM    Retrieve diverted surface flow from D54gS.
 996             DR   D54gS
                 *

 997             KK   R54gS   ROUTE
 998             KM    Route surface flow south from Subbasin 54g to Subbasin 54i.
 999             RS       6    FLOW      -1
1000             RC   0.050   0.016   0.050    5280  0.0072
1001             RX       0    0.75      30    73.5    76.5     120  149.25     150
1002             RY       3       1     0.5       0       0     0.5       1       3
                 *
1                                          HEC-1 INPUT                                          PAGE 28

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1003             KK    C54i COMBINE
1004             KM    Combine hydrographs 54i and R54gS.
1005             HC       2    0.44
                 *
```

```
1006          KK    D54i  DIVERT
1007          KM    Divert 68 cfs into pipe.
1008          DT   D54iP
1009          DI       0      68    1000   10000
1010          DQ       0      68      68      68
              *

1011          KK   D54iW  DIVERT
1012          KM    Divert surface flow to south.
1013          DT   D54iS
1014          DI       0     100    1000   10000
1015          DQ       0      37     372    3722
              *

1016          KK   R54iW   ROUTE
1017          KM    Route surface flow west from Subbasin 54i to Subbasin 56i.
1018          RS       6    FLOW      -1
1019          RC   0.050   0.016   0.050    2636  0.0015
1020          RX       0     1.6      64   156.8   163.2     256   318.4     320
1021          RY       3       1     0.5       0       0     0.5       1       3
              *

1022          KK     56i   BASIN
1023          KM    Subbasin at NEC of Camelback Rd. & 12th St.
1024          BA   0.500
1025          LG    1.20    0.25    4.80    0.37      28
1026          UC   0.809   0.601
1027          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1028          UA     100
              *

1029          KK  BD56gP RETRIEVE
1030          KM    Retrieve diverted pipe flow from D56gP.
1031          DR   D56gP
              *

1032          KK   P56gS   ROUTE
1033          KM    Route pipe flow from Bethany/12th St. to Camelback/12th St.
1034          RK    5300  0.0058   0.015           CIRC     4.50
              *

1035          KK  BD56gS RETRIEVE
1036          KM    Retrieve diverted surface flow from D56gS.
1037          DR   D56gS
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1038          KK   R56gS   ROUTE
1039          KM    Route surface flow south from Subbasin 56g to Subbasin 56i.
1040          RS       6    FLOW      -1
1041          RC   0.050   0.016   0.050    5280  0.0072
1042          RX       0     1.3      52   127.4   132.6     208   258.7     260
1043          RY       3       1     0.5       0       0     0.5       1       3
              *

1044          KK   C56gS COMBINE
1045          KM    Combine hydrographs R56gS and P56gS.
1046          HC       2    0.92
              *

1047          KK    C56i COMBINE
1048          KM    Combine hydrographs 56i, C56gS, and R54iW.
1049          HC       3    1.62
              *

1050          KK    D56i  DIVERT
1051          KM    Divert 204 cfs into pipe.
1052          DT   D56iP
1053          DI       0     100     204   10000
1054          DQ       0     100     204     204
              *

1055          KK   D56iW  DIVERT
1056          KM    Divert surface flow to south.
1057          DT   D56iS
1058          DI       0     100    1000   10000
1059          DQ       0      49     488    4881
              *

1060          KK   R56iW   ROUTE
1061          KM    Route surface flow west from Subbasin 56i to Subbasin 60i.
1062          RS       9    FLOW      -1
1063          RC   0.050   0.016   0.050    2636  0.0015
```

```
1064          RX       0     2.4      96   235.2   244.8     384   477.6     480
1065          RY       3       1     0.5       0       0     0.5       1       3
              *

1066          KK     60i   BASIN
1067          KM    Subbasin at NEC of Camelback Rd. & 7th St.
1068          BA   0.500
1069          LG    0.78    0.25    4.80    0.37      33
1070          UC   0.803   0.596
1071          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1072          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1073          KK  BD60gP RETRIEVE
1074          KM    Retrieve diverted pipe flow from D60gP.
1075          DR   D60gP
              *

1076          KK   P60gS   ROUTE
1077          KM    Route pipe flow from Bethany/7th St. to Camelback/7th St.
1078          RK    5300  0.0053   0.015           CIRC     4.50
              *

1079          KK  BD60gS RETRIEVE
1080          KM    Retrieve diverted surface flow from D60gS.
1081          DR   D60gS
              *

1082          KK   R60gS   ROUTE
1083          KM    Route surface flow south from Subbasin 60g to Subbasin 60i.
1084          RS       5    FLOW      -1
1085          RC   0.050   0.016   0.050    5280  0.0064
1086          RX       0    1.05      42   102.9   107.1     168  208.95     210
1087          RY       3       1     0.5       0       0     0.5       1       3
              *

1088          KK   C60gS COMBINE
1089          KM    Combine hydrographs R60gS and P60gS.
1090          HC       2    1.83
              *

1091          KK    C60i COMBINE
1092          KM    Combine hydrographs 60i, C60gS, and R56iW.
1093          HC       3    3.02
              *

1094          KK    D60i  DIVERT
1095          KM   Divert 211 cfs into pipe.
1096          KM   Total flow for two pipes is 211 cfs
1097          DT   D60iP
1098          DI       0     100     211   10000
1099          DQ       0     100     211     211
              *

1100          KK   D60iW  DIVERT
1101          KM    Divert surface flow to south.
1102          DT   D60iS
1103          DI       0     100    1000   10000
1104          DQ       0      59     592    5916
              *

1105          KK   R60iW   ROUTE
1106          KM    Route surface flow west from Subbasin 60i to Subbasin 64i.
1107          RS       4    FLOW      -1
1108          RC   0.050   0.016   0.050    2640  0.0015
1109          RX       0    1.85      74   181.3   188.7     296  368.15     370
1110          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                          PAGE 31

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1111          KK  BD64gP RETRIEVE
1112          KM    Retrieve diverted pipe flow from D64gP.
1113          DR   D64gP
              *

1114          KK   P64gS   ROUTE
1115          KM    Route pipe flow from Bethany/Central Ave. to Camelback/Central Ave.
1116          RK    5300  0.0046   0.015           CIRC     5.00
              *
```

```
1117          KK  BD64gS RETRIEVE
1118          KM   Retrieve diverted surface flow from D64gS.
1119          DR   D64gS
              *

1120          KK   R64gS   ROUTE
1121          KM   Route surface flow south from Subbasin 64g to Subbasin 64i.
1122          RS       5    FLOW      -1
1123          RC   0.050   0.016   0.050    5280  0.0061
1124          RX       0    0.75      30    73.5    76.5     120  149.25     150
1125          RY       3       1     0.5       0       0     0.5       1       3
              *

1126          KK   C64gS COMBINE
1127          KM   Combine hydrographs R64gS and P64gS.
1128          HC       2    3.10
              *

1129          KK    64i   BASIN
1130          KM   Subbasin at NEC of Camelback Rd. & Central Ave.
1131          BA   0.499
1132          LG   1.40    0.25    4.80    0.37      32
1133          UC   0.914   0.689
1134          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1135          UA     100
              *

1136          KK   C64i COMBINE
1137          KM   Combine hydrographs 64i, C64gS, and R60iW.
1138          HC       3    4.79
              *

1139          KK   D64i  DIVERT
1140          KM   Divert 214 cfs into pipe.
1141          DT   D64iP
1142          DI       0     100     214   10000
1143          DQ       0     100     214     214
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1144          KK   D64iW  DIVERT
1145          KM   Divert surface flow to south.
1146          DT   D64iS
1147          DI       0     100    1000   10000
1148          DQ       0      61     610    6098
              *

1149          KK   R64iW   ROUTE
1150          KM   Route surface flow west from Subbasin 64i to Subbasin 68i.
1151          RS       6    FLOW      -1
1152          RC   0.050   0.016   0.050    2640  0.0010
1153          RX       0     1.6      64   156.8   163.2     256   318.4     320
1154          RY       3       1     0.5       0       0     0.5       1       3
              *

1155          KK    68i   BASIN
1156          KM   Subbasin at NEC of Camelback Rd. & 7th Ave.
1157          BA   0.500
1158          LG   1.78    0.25    4.80    0.36      23
1159          UC   1.136   0.875
1160          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1161          UA     100
              *

1162          KK  BD68gP RETRIEVE
1163          KM   Retrieve diverted pipe flow from D68gP.
1164          DR   D68gP
              *

1165          KK   P68gS   ROUTE
1166          KM   Route pipe flow from Bethany/7th Ave. to Camelback/7th Ave.
1167          RK    5300  0.0043   0.015           CIRC     4.00
              *

1168          KK  BD68gS RETRIEVE
1169          KM   Retrieve diverted surface flow from D68gS.
1170          DR   D68gS
              *

1171          KK   R68gS   ROUTE
1172          KM   Route surface flow south from Subbasin 68g to Subbasin 68i.
1173          RS       4    FLOW      -1
```

```
1174          RC   0.050   0.016   0.050    5280  0.0045
1175          RX       0     1.3      52   127.4   132.6     208   258.7     260
1176          RY       3       1     0.5       0       0     0.5       1       3
              *

1177          KK   C68gS COMBINE
1178          KM    Combine hydrographs R68gS and P68gS.
1179          HC       2    4.53
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1180          KK    C68i COMBINE
1181          KM    Combine hydrographs 68i, C68gS, and R64iW.
1182          HC       3    6.72
              *

1183          KK   BD72i RETRIEVE
1184          KM    Retrieve diverted surface flow from D72i.
1185          DR    D72i
              *

1186          KK   B76iE RETRIEVE
1187          KM    Retrieve diverted surface flow from D76iE.
1188          DR   D76iE
              *

1189          KK   R76iE  ROUTE
1190          KM    Route surface flow east from Subbasin 76i to Subbasin 72i.
1191          RS       4    FLOW      -1
1192          RC   0.050   0.016   0.050    2640  0.0008
1193          RX       0     1.4      56   137.2   142.8     224   278.6     280
1194          RY       3       1     0.5       0       0     0.5       1       3
              *

1195          KK   CC72i COMBINE
1196          KM    Combine hydrographs R76iE and D72i.
1197          HC       2    8.68
              *

1198          KK   D72iE  DIVERT
1199          KM    Divert surface flow to south.
1200          DT   D72iS
1201          DI       0     100    1000   10000
1202          DQ       0      70     700    7000
              *

1203          KK   R72iE   ROUTE
1204          KM    Route surface flow east from Subbasin 72i to Subbasin 68i.
1205          RS       5    FLOW      -1
1206          RC   0.050   0.016   0.050    2640  0.0008
1207          RX       0    1.35      54   132.3   137.7     216  268.65     270
1208          RY       3       1     0.5       0       0     0.5       1       3
              *

1209          KK   CC68i COMBINE
1210          KM    Combine hydrographs C68i and R72iE.
1211          HC       2   10.87
              *

1212          KK    D68i  DIVERT
1213          KM    Divert 99 cfs into pipe.
1214          DT   D68iP
1215          DI       0      99    1000   10000
1216          DQ       0      99      99      99
              *
1                                          HEC-1 INPUT                                                    PAGE 34

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1217          KK   R68iS   ROUTE
1218          KM    Route surface flow south from Subbasin 68i to Subbasin 68k.
1219          RS       3    FLOW      -1
1220          RC   0.050   0.016   0.050    2000  0.0030
1221          RX       0     0.8      32    78.4    81.6     128   159.2     160
1222          RY       3       1     0.5       0       0     0.5       1       3
              *

1223          KK  BD68iP RETRIEVE
1224          KM    Retrieve diverted pipe flow from D68iP.
1225          DR   D68iP
              *
```

```
1226          KK   P68iS   ROUTE
1227          KM    Route pipe flow from Camelback/7th Ave. to Grand Canal/7th Ave.
1228          RK    2400  0.0034   0.015            CIRC    4.50
              *

1229          KK   C68iS COMBINE
1230          KM    Combine hydrographs R68iS and P68iS.
1231          HC       2   10.87
              *

1232          KK     36i   BASIN
1233          KM    Subbasin at NEC of Camelback Rd. & 32nd St.
1234          BA   0.339
1235          LG    0.95    0.24    3.95    0.57      19
1236          UC   0.805   0.657
1237          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1238          UA     100
              *

1239          KK    D36i  DIVERT
1240          KM    Divert 41 cfs into pipe.
1241          DT   D36iP
1242          DI       0      41    1000   10000
1243          DQ       0      41      41      41
              *

1244          KK   D36iW  DIVERT
1245          KM    Divert 84% surface flow to south.
1246          DT   D36iS
1247          DI       0     100    1000   10000
1248          DQ       0      84     836    8357
              *

1249          KK   R36iW   ROUTE
1250          KM    Route surface flow west from Subbasin 36i to Subbasin 40i.
1251          RS       5    FLOW      -1
1252          RC   0.050   0.016   0.050    2610  0.0077
1253          RX       0    1.05      42   102.9   107.1     168  208.95     210
1254          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1255          KK     40i   BASIN
1256          KM    Subbasin at NEC of Camelback Rd. & 28th St.
1257          BA   0.224
1258          LG    2.53    0.25    4.10    0.58      26
1259          UC   0.810   0.725
1260          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1261          UA     100
              *

1262          KK    S40i STORAGE
1263          KM    Online local Retention Basin, 11 ac-ft.
1264          RS       1    STOR       0
1265          SV       0     2.4     6.1    10.5    15.3
1266          SE       0       1       2       3       4
1267          SS       3      50     2.7     1.5
              *

1268          KK    C40i COMBINE
1269          KM    Combine hydrographs 40i and R36iW.
1270          HC       2    0.56
              *

1271          KK   D40iW  DIVERT
1272          KM    Divert surface flow to south.
1273          DT   D40iS
1274          DI       0     100    1000   10000
1275          DQ       0      76     759    7592
              *

1276          KK   R40iW   ROUTE
1277          KM    Route surface flow west from Subbasin 40i to Subbasin 44i.
1278          RS       5    FLOW      -1
1279          RC   0.050   0.016   0.050    2715  0.0059
1280          RX       0     0.5      20      49      51      80    99.5     100
1281          RY       3       1     0.5       0       0     0.5       1       3
              *

1282          KK     44i   BASIN
1283          KM    Subbasin at NEC of Camelback Rd. & 24th St.
1284          BA   0.349
1285          LG    1.92    0.25    4.35    0.50      23
```

```
1286          UC   0.904   0.834
1287          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1288          UA     100
              *

1289          KK     42i   BASIN
1290          KM    Subbasin north of Biltmore & 28th St.
1291          BA   0.269
1292          LG    1.07    0.25    4.00    0.64       5
1293          UC   0.618   0.458
1294          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1295          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1296          KK   R42iW   ROUTE
1297          KM    Route surface flow west from Subbasin 42i to Subbasin 44i.
1298          RS       3    FLOW      -1
1299          RC   0.050   0.016   0.050    2715  0.0059
1300          RX       0     0.8      32    78.4    81.6     128   159.2     160
1301          RY       3       1     0.5       0       0     0.5       1       3
              *

1302          KK    C44i COMBINE
1303          KM    Combine hydrographs 44i, R42iW, and R40iW.
1304          HC       3    1.18
              *

1305          KK    D44i  DIVERT
1306          KM    Divert 48 cfs into pipe.
1307          DT   D44iP
1308          DI       0      48    1000   10000
1309          DQ       0      48      48      48
              *

1310          KK   D44iW  DIVERT
1311          KM    Divert surface flow to south.
1312          DT   D44iS
1313          DI       0     100    1000   10000
1314          DQ       0      50     496    4957
              *

1315          KK   R44iW   ROUTE
1316          KM    Route surface flow west from Subbasin 44i to Subbasin 48i.
1317          RS       3    FLOW      -1
1318          RC   0.050   0.016   0.050    2640  0.0053
1319          RX       0     0.8      32    78.4    81.6     128   159.2     160
1320          RY       3       1     0.5       0       0     0.5       1       3
              *

1321          KK     48i   BASIN
1322          KM    Subbasin at NEC of Camelback Rd. & 20th St.
1323          BA   0.535
1324          LG    1.55    0.25    4.35    0.45      11
1325          UC   0.889   0.699
1326          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1327          UA     100
              *

1328          KK    C48i COMBINE
1329          KM    Combine hydrographs 48i and R44iW.
1330          HC       2    1.72
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1331          KK    D48i  DIVERT
1332          KM    Divert 47 cfs into pipe.
1333          DT   D48iP
1334          DI       0      47    1000   10000
1335          DQ       0      47      47      47
              *

1336          KK   D48iW  DIVERT
1337          KM    Divert surface flow to south.
1338          DT   D48iS
1339          DI       0     100    1000   10000
1340          DQ       0      49     487    4872
              *

1341          KK   R48iW   ROUTE
```

```
1342          KM    Route surface flow west from Subbasin 48i to Subbasin 52i.
1343          RS       3    FLOW      -1
1344          RC   0.050   0.016   0.050    1660  0.0036
1345          RX       0    1.35      54   132.3   137.7     216  268.65     270
1346          RY       3       1     0.5       0       0     0.5       1       3
              *

1347          KK  BD48iP RETRIEVE
1348          KM    Retrieve diverted pipe flow from D48iP.
1349          DR   D48iP
              *

1350          KK   P48iW   ROUTE
1351          KM    Route pipe flow from Camelback/20th St. to Camelback/SR51.
1352          RK    1550  0.0043   0.015            CIRC     3.3
              *

1353          KK   C48iW COMBINE
1354          KM    Combine hydrographs P48iW and R48iW.
1355          HC       2    1.72
              *

1356          KK     52g   BASIN
1357          KM    Subbasin at NEC of Bethany Home & SR51.
1358          BA   0.265
1359          LG    1.71    0.25    4.15    0.51      13
1360          UC   0.628   0.386
1361          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1362          UA     100
              *

1363          KK   R52gS   ROUTE
1364          KM    Route surface flow south from Subbasin 52g to Subbasin 52i.
1365          RS       6    FLOW      -1
1366          RC   0.050   0.016   0.050    5280  0.0087
1367          RX       0     1.8      72   176.4   183.6     288   358.2     360
1368          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1369          KK     52i   BASIN
1370          KM    Subbasin at NEC of Camelback Rd. & SR51.
1371          BA   0.309
1372          LG    1.29    0.25    4.70    0.37      22
1373          UC   0.793   0.693
1374          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1375          UA     100
              *

1376          KK    C52i COMBINE
1377          KM    Combine hydrographs 52i, R52gS, and C48iW.
1378          HC       3    2.29
              *

1379          KK    E52i  DIVERT
1380          KM    Divert flow into pipe for routing through offline detention basin.
1381          KM    Pipe flow = 95 cfs
1382          DT   DB52i
1383          DI       0      95    1000   10000
1384          DQ       0       0     905    9905
              *

1385          KK  BDB52iRETRIEVE
1386          KM    Retrieve diverted surface flow from DB52i.
1387          DR   DB52i
              *

1388          KK    S52i STORAGE
1389          KM    Offline Regional Detention Basin, 27 ac-ft.
1390          RS       1    STOR       0
1391          SV       0       1       5      12      21      27      33
1392          SE       0       4       8      12      16      18      20
1393          SQ       0      43      60      74      86      91     860
              *

1394          KK   CC52i COMBINE
1395          KM    Combine hydrographs B52i and S52i.
1396          HC       2    2.29
              *

1397          KK    D52i  DIVERT
1398          KM    Divert 95 cfs into pipe.
1399          DT   D52iP
```

```
1400          DI       0      95    1000   10000
1401          DQ       0      95      95      95
              *

1402          KK   R52iS   ROUTE
1403          KM    Route surface flow south from Subbasin 52i to Subbasin 52k.
1404          RS       4    FLOW      -1
1405          RC   0.050   0.016   0.050    5280  0.0038
1406          RX       0     0.5      20      49      51      80    99.5     100
1407          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE 39

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1408          KK  BD52iP RETRIEVE
1409          KM    Retrieve diverted pipe flow from D52iP.
1410          DR   D52iP
              *

1411          KK   P52iS   ROUTE
1412          KM    Route pipe flow from Camelback/SR51. to Indian School/SR51.
1413          RK    5250  0.0031   0.015            CIRC    4.50
              *

1414          KK   C52iS COMBINE
1415          KM    Combine hydrographs R52iS and P52iS.
1416          HC       2    2.29
              *

1417          KK     24k   BASIN
1418          KM    Subbasin at NEC of Indian School Rd. & 44th St.
1419          BA   0.192
1420          LG    0.60    0.25    4.60    0.40      23
1421          UC   0.610   0.480
1422          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1423          UA     100
              *

1424          KK   D24kW  DIVERT
1425          KM    Divert surface flow to south.
1426          DT   D24kS
1427          DI       0     100    1000   10000
1428          DQ       0      50     502    5018
              *

1429          KK   R24kW   ROUTE
1430          KM    Route surface flow west from Subbasin 24k to Subbasin 28k.
1431          RS       4    FLOW      -1
1432          RC   0.050   0.016   0.050    2640  0.0045
1433          RX       0    1.85      74   181.3   188.7     296  368.15     370
1434          RY       3       1     0.5       0       0     0.5       1       3
              *

1435          KK   ARC40  INFLOW
1436          KM   Inflow from Arcadia area from 40th Street through storm drain system.
1437          KM   Maximum flow 47 cfs.
1438          IN      60
1439          BA     0.1
1440          QI     0.1     0.5       1       2      47      16       5       2       1     0.1
              *

1441          KK  PARC40   ROUTE
1442          KM    Route pipe flow from Arcadia to Indian School/40th St.
1443          RK    5400  0.0050   0.015            CIRC    4.00
              *
1                                          HEC-1 INPUT                                                    PAGE 40

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1444          KK     28k   BASIN
1445          KM    Subbasin at NEC of Indian School Rd. & 40th St.
1446          BA   0.428
1447          LG    1.19    0.25    4.60    0.40      22
1448          UC   0.820   0.612
1449          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1450          UA     100
              *

1451          KK    C28k COMBINE
1452          KM    Combine hydrographs 28k, PARC40, and R24kW.
1453          HC       3    0.72
              *
```

```
1454          KK    D28k  DIVERT
1455          KM    Divert 131 cfs into pipe.
1456          DT   D28kP
1457          DI       0     131    1000   10000
1458          DQ       0     131     131     131
              *

1459          KK   D28kW  DIVERT
1460          KM    Divert surface flow to south.
1461          DT   D28kS
1462          DI       0     100    1000   10000
1463          DQ       0      42     424    4242
              *

1464          KK   R28kW   ROUTE
1465          KM    Route surface flow west from Subbasin 28k to Subbasin 32k.
1466          RS       4    FLOW      -1
1467          RC   0.050   0.016   0.050    2640  0.0038
1468          RX       0    1.85      74   181.3   188.7     296  368.15     370
1469          RY       3       1     0.5       0       0     0.5       1       3
              *

1470          KK     32k   BASIN
1471          KM   Subbasin at NEC of Indian School Rd. & 36th St.
1472          BA   0.506
1473          LG    1.88    0.25    4.50    0.43      21
1474          UC   0.979   0.737
1475          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1476          UA     100
              *

1477          KK    C32k COMBINE
1478          KM    Combine hydrographs 32k and R28kW.
1479          HC       2    1.23
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1480          KK    D32k  DIVERT
1481          KM    Divert 45 cfs into 48" pipe.
1482          DT   D32kP
1483          DI       0      45    1000   10000
1484          DQ       0      45      45      45
              *

1485          KK   D32kW  DIVERT
1486          KM    Divert surface flow to south.
1487          DT   D32kS
1488          DI       0     100    1000   10000
1489          DQ       0      46     457    4571
              *

1490          KK   R32kW   ROUTE
1491          KM    Route surface flow west from Subbasin 32k to Subbasin 36k.
1492          RS       3    FLOW      -1
1493          RC   0.050   0.016   0.050    2640  0.0045
1494          RX       0    1.85      74   181.3   188.7     296  368.15     370
1495          RY       3       1     0.5       0       0     0.5       1       3
              *

1496          KK     36k   BASIN
1497          KM    Subbasin at NEC of Indian School Rd. & 32nd St.
1498          BA   0.508
1499          LG    1.39    0.25    4.65    0.39      24
1500          UC   0.864   0.640
1501          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1502          UA     100
              *

1503          KK  BD36iP RETRIEVE
1504          KM    Retrieve diverted pipe flow from D36iP.
1505          DR   D36iP
              *

1506          KK   P36iS   ROUTE
1507          KM    Route pipe flow from Camelback/32nd St. to Indian School/32nd St.
1508          RK    5350  0.0050   0.015            CIRC     3.0
              *

1509          KK  BD36iS RETRIEVE
1510          KM    Retrieve diverted surface flow from D36iS.
1511          DR   D36iS
              *
```

```
1512          KK   R36iS   ROUTE
1513          KM    Route surface flow south from Subbasin 36i to Subbasin 36k.
1514          RS       6    FLOW      -1
1515          RC   0.050   0.016   0.050    5280  0.0080
1516          RX       0    2.05      82   200.9   209.1     328  407.95     410
1517          RY       3       1     0.5       0       0     0.5       1       3
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1518          KK   C36iS COMBINE
1519          KM    Combine hydrographs R36iS and P36iS.
1520          HC       2    0.34
              *

1521          KK    C36k COMBINE
1522          KM    Combine hydrographs 36k, C36iS, and R32kW.
1523          HC       3    2.07
              *

1524          KK    D36k  DIVERT
1525          KM    Divert 59 cfs into pipe.
1526          DT   D36kP
1527          DI       0      59    1000   10000
1528          DQ       0      59      59      59
              *

1529          KK   D36kW  DIVERT
1530          KM    Divert surface flow to south.
1531          DT   D36kS
1532          DI       0     100    1000   10000
1533          DQ       0      44     439    4394
              *

1534          KK   R36kW   ROUTE
1535          KM    Route surface flow west from Subbasin 36k to Subbasin 40k.
1536          RS       3    FLOW      -1
1537          RC   0.050   0.016   0.050    2640  0.0045
1538          RX       0    1.35      54   132.3   137.7     216  268.65     270
1539          RY       3       1     0.5       0       0     0.5       1       3
              *

1540          KK  BD40iS RETRIEVE
1541          KM    Retrieve diverted surface flow from D40iS.
1542          DR   D40iS
              *

1543          KK   R40iS   ROUTE
1544          KM    Route surface flow south from Subbasin 40i to Subbasin 40k.
1545          RS       8    FLOW      -1
1546          RC   0.050   0.016   0.050    5280  0.0068
1547          RX       0       1      40      98     102     160     199     200
1548          RY       3       1     0.5       0       0     0.5       1       3
              *

1549          KK     40k   BASIN
1550          KM    Subbasin at NEC of Indian School Rd. & 28th St.
1551          BA   0.504
1552          LG    1.14    0.25    4.80    0.37      24
1553          UC   0.904   0.676
1554          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1555          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1556          KK    C40k COMBINE
1557          KM    Combine hydrographs 40k, R40iS, and R36kW.
1558          HC       3    2.80
              *

1559          KK    D40k  DIVERT
1560          KM    Divert 29 cfs into pipe.
1561          DT   D40kP
1562          DI       0      29     100    1000   10000
1563          DQ       0      29      29      29      29
              *

1564          KK   D40kW  DIVERT
1565          KM    Divert surface flow to south.
1566          DT   D40kS
1567          DI       0     100    1000   10000
1568          DQ       0      42     421    4206
```

```
                *

1569            KK   R40kW   ROUTE
1570            KM    Route surface flow west from Subbasin 40k to Subbasin 44k.
1571            RS       3    FLOW      -1
1572            RC   0.050   0.016   0.050    2640  0.0053
1573            RX       0    1.35      54   132.3   137.7     216  268.65     270
1574            RY       3       1     0.5       0       0     0.5       1       3
                *

1575            KK     44k   BASIN
1576            KM    Subbasin at NEC of Indian School Rd. & 24th St.
1577            BA   0.508
1578            LG    1.00    0.25    4.80    0.38      32
1579            UC   0.846   0.626
1580            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1581            UA     100
                *

1582            KK  BD44iP RETRIEVE
1583            KM    Retrieve diverted pipe flow from D44iP.
1584            DR   D44iP
                *

1585            KK   P44iS   ROUTE
1586            KM    Route pipe flow from Camelback/24th St. to Indian School/24th St.
1587            RK    5300  0.0030   0.015            CIRC    3.50
                *

1588            KK  BD44iS RETRIEVE
1589            KM    Retrieve diverted surface flow from D44iS.
1590            DR   D44iS
                *
```



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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1591            KK   R44iS   ROUTE
1592            KM    Route surface flow south from Subbasin 44i to Subbasin 44k.
1593            RS       5    FLOW      -1
1594            RC   0.050   0.016   0.050    5280  0.0064
1595            RX       0     0.5      20      49      51      80    99.5     100
1596            RY       3       1     0.5       0       0     0.5       1       3
                *

1597            KK   C44iS COMBINE
1598            KM    Combine hydrographs R44iS and P44iS.
1599            HC       2    1.18
                *

1600            KK    C44k COMBINE
1601            KM    Combine hydrographs 44k, C44iS, and R40kW.
1602            HC       3    3.93
                *

1603            KK    D44k  DIVERT
1604            KM    Divert 71 cfs into pipe.
1605            DT   D44kP
1606            DI       0      71    1000   10000
1607            DQ       0      71      71      71
                *

1608            KK   D44kW  DIVERT
1609            KM    Divert surface flow to south.
1610            DT   D44kS
1611            DI       0     100    1000   10000
1612            DQ       0      38     380    3797
                *

1613            KK   R44kW   ROUTE
1614            KM    Route surface flow west from Subbasin 44k to Subbasin 48k.
1615            RS       2    FLOW      -1
1616            RC   0.050   0.016   0.050    2640  0.0045
1617            RX       0    1.35      54   132.3   137.7     216  268.65     270
1618            RY       3       1     0.5       0       0     0.5       1       3
                *

1619            KK     48k   BASIN
1620            KM    Subbasin at NEC of Indian School Rd. & 20th St.
1621            BA   0.500
1622            LG    0.82    0.25    4.80    0.38      41
1623            UC   0.873   0.653
1624            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1625            UA     100
                *
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1626          KK    S48k STORAGE
1627          KM    Online Local Retention Basin, 2 ac-ft.
1628          RS       1    STOR       0
1629          SV       0     0.8       2       4
1630          SE       0       2       4       6
1631          SS       4     100     2.7     1.5
              *

1632          KK  BD48iS RETRIEVE
1633          KM    Retrieve diverted surface flow from D48iS.
1634          DR   D48iS
              *

1635          KK   R48iS   ROUTE
1636          KM    Route surface flow south from Subbasin 48i to Subbasin 48k.
1637          RS       6    FLOW      -1
1638          RC   0.050   0.016   0.050    5280  0.0053
1639          RX       0     0.8      32    78.4    81.6     128   159.2     160
1640          RY       3       1     0.5       0       0     0.5       1       3
              *

1641          KK    C48k COMBINE
1642          KM    Combine hydrographs S48k, R48iS, and R44kW.
1643          HC       3    4.96
              *

1644          KK   D48kW  DIVERT
1645          KM    Divert surface flow to south.
1646          DT   D48kS
1647          DI       0     100    1000   10000
1648          DQ       0      45     448    4475
              *

1649          KK   R48kW   ROUTE
1650          KM    Route surface flow west from Subbasin 48k to Subbasin 52k.
1651          RS       2    FLOW      -1
1652          RC   0.050   0.016   0.050    1625  0.0049
1653          RX       0     1.4      56   137.2   142.8     224   278.6     280
1654          RY       3       1     0.5       0       0     0.5       1       3
              *

1655          KK     52k   BASIN
1656          KM    Subbasin at NEC of Indian School Rd. & SR51
1657          BA   0.295
1658          LG    0.59    0.25    4.80    0.37      31
1659          UC   0.890   0.809
1660          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1661          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1662          KK    C52k COMBINE
1663          KM    Combine hydrographs 52k, C52iS, and R48kW.
1664          HC       3    5.83
              *

1665          KK    D52k  DIVERT
1666          KM    Divert 201 cfs into pipe.
1667          DT   D52kP
1668          DI       0     100     201   10000
1669          DQ       0     100     201     201
              *

1670          KK   D52kW  DIVERT
1671          KM    Divert surface flow to south.
1672          DT   D52kS
1673          DI       0     100    1000   10000
1674          DQ       0      45     451    4513
              *

1675          KK   R52kW   ROUTE
1676          KM    Route surface flow west from Subbasin 52k to Subbasin 54k.
1677          RS       1    FLOW      -1
1678          RC   0.050   0.016   0.050    1100  0.0026
1679          RX       0     0.8      32    78.4    81.6     128   159.2     160
1680          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
1681          KK  BD54iP RETRIEVE
1682          KM    Retrieve diverted pipe flow from D54iP.
1683          DR   D54iP
              *

1684          KK   P54iS   ROUTE
1685          KM    Route pipe flow from Camelback/16th St. to Indian School/16th St.
1686          RK    5800  0.0030   0.015            CIRC     4.0
              *

1687          KK  BD54iS RETRIEVE
1688          KM    Retrieve diverted surface flow from D54iS.
1689          DR   D54iS
              *

1690          KK   R54iS   ROUTE
1691          KM    Route surface flow south from Subbasin 54i to Subbasin 54k.
1692          RS       9    FLOW      -1
1693          RC   0.050   0.016   0.050    5800  0.0034
1694          RX       0     0.5      20      49      51      80    99.5     100
1695          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE 47

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1696          KK   C54iS COMBINE
1697          KM    Combine hydrographs R54iS and P54iS.
1698          HC       2    0.44
              *

1699          KK     54k   BASIN
1700          KM    Subbasin at NEC of Grand Canal & 16th St.
1701          BA   0.245
1702          LG    0.33    0.24    4.80    0.38      39
1703          UC   0.885   0.855
1704          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1705          UA     100
              *

1706          KK    C54k COMBINE
1707          KM    Combine hydrographs 54k, C54iS, and R52kW.
1708          HC       3    1.18
              *

1709          KK    D54k  DIVERT
1710          KM    Divert 124 cfs into pipe.
1711          DT   D54kP
1712          DI       0     100     124   10000
1713          DQ       0     100     124     124
              *

1714          KK   D54kW  DIVERT
1715          KM    Divert surface flow to south.
1716          DT   D54kS
1717          DI       0      37     118     382     658    1241
1718          DQ       0       0      40     207     393     800
              *

1719          KK   R54kW   ROUTE
1720          KM    Route surface flow west from Subbasin 54k to Subbasin 56k.
1721          RS       7    FLOW      -1
1722          RC   0.050   0.016   0.050    3500  0.0005
1723          RX       0     1.6      64   156.8   163.2     256   318.4     320
1724          RY       3       1     0.5       0       0     0.5       1       3
              *

1725          KK  BD56iP RETRIEVE
1726          KM    Retrieve diverted pipe flow from D56iP.
1727          DR   D56iP
              *

1728          KK   P56iS   ROUTE
1729          KM    Route pipe flow from Camelback/12th St. to Grand Canal/12th St.
1730          RK    3400  0.0031   0.015            CIRC     6.0
              *
1                                          HEC-1 INPUT                                                    PAGE 48

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1731          KK  BD56iS RETRIEVE
1732          KM    Retrieve diverted surface flow from D56iS.
1733          DR   D56iS
              *
```

```
1734          KK   R56iS   ROUTE
1735          KM    Route surface flow south from Subbasin 56i to Subbasin 56k.
1736          RS       9    FLOW      -1
1737          RC   0.050   0.016   0.050    4200  0.0052
1738          RX       0    1.05      42   102.9   107.1     168  208.95     210
1739          RY       3       1     0.5       0       0     0.5       1       3
              *

1740          KK   C56iS COMBINE
1741          KM    Combine hydrographs R56iS and P56iS.
1742          HC       2    1.62
              *

1743          KK     56k   BASIN
1744          KM   Subbasin at NEC of Grand Canal & 12th St.
1745          BA   0.423
1746          LG    0.90    0.24    4.80    0.38      34
1747          UC   0.833   0.528
1748          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1749          UA     100
              *

1750          KK    C56k COMBINE
1751          KM    Combine hydrographs 56k, C56iS, and R54kW.
1752          HC       3    2.78
              *

1753          KK  BD60iP RETRIEVE
1754          KM    Retrieve diverted pipe flow from D60iP.
1755          DR   D60iP
              *

1756          KK  D60iP1  DIVERT
1757          KM    Divert flow into pipe.
1758          KM   Total flow for two pipes is 211 cfs, and 143 cfs going to east(P2)
1759          DT  D60iP2
1760          DI       0     211     220
1761          DQ       0     143     143
              *

1762          KK  P60iS1  ROUTE
1763          KM    Route pipe flow from Camelback/7th St. to Grand Canal/7th St.
1764          RK    2600  0.0031   0.015            CIRC     6.0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1765          KK  B60iP2 RETRIEVE
1766          KM    Retrieve diverted pipe flow from D60iP2.
1767          DR  D60iP2
              *

1768          KK  P60iS2  ROUTE
1769          KM    Route pipe flow from Camelback/12th St. to Grand Canal/12th St.
1770          RK    2600  0.0031   0.015            CIRC     7.0
              *

1771          KK  BD60iS RETRIEVE
1772          KM    Retrieve diverted surface flow from D60iS.
1773          DR   D60iS
              *

1774          KK   R60iS   ROUTE
1775          KM    Route surface flow south from Subbasin 60i to Subbasin 60k.
1776          RS       3    FLOW      -1
1777          RC   0.050   0.016   0.050    3000  0.0047
1778          RX       0     1.3      52   127.4   132.6     208   258.7     260
1779          RY       3       1     0.5       0       0     0.5       1       3
              *

1780          KK   C60iS COMBINE
1781          KM    Combine hydrographs R60iS and P60iS.
1782          HC       3    3.02
              *

1783          KK     60k   BASIN
1784          KM    Subbasin at NEC of Grand Canal & 7th St.
1785          BA   0.266
1786          LG    0.46    0.24    4.80    0.37      36
1787          UC   0.778   0.577
1788          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1789          UA     100
              *
```

```
1790          KK    C60k COMBINE
1791          KM    Combine hydrographs 60k and C60iS.
1792          HC       2    3.29
              *

1793          KK   D60kP  DIVERT
1794          KM   Divert flow into pipe.
1795          KM   Total pipe flow is 284 (P1 = 159, P2 = 125)cfs
1796          DT    D60k
1797          DI       0     100     135    1000   10000
1798          DQ       0       0       0     865    9865
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1799          KK  D60kP1  DIVERT
1800          KM    Divert flow into pipe.
1801          KM    Flow for P1 = 10.0 cfs going east for storms greater than 2-year
1802          KM    Minimum flow to east to keep the model working
1803          DT  D60kP2
1804          DI       0     135     300
1805          DQ       0     125     290
              *

1806          KK   P60kE   ROUTE
1807          KM    Route pipe flow from Grand Canal/7th St. to Grand Canal/12th St.
1808          RK    3000  0.0030   0.015            CIRC     7.0
              *

1809          KK   CC56k COMBINE
1810          KM    Combine hydrographs C56k and P60kE.
1811          HC       2    4.46
              *

1812          KK    D56k  DIVERT
1813          KM    Divert 303 cfs into pipe.
1814          DT   D56kP
1815          DI       0     100     303   10000
1816          DQ       0     100     303     303
              *

1817          KK   D56kW  DIVERT
1818          KM    Divert surface flow to south.
1819          DT   D56kS
1820          DI       0      73     124     325     649    1102
1821          DQ       0       0      24     157     393     734
              *

1822          KK   R56kW   ROUTE
1823          KM    Route surface flow west from Subbasin 56k to Subbasin 60k.
1824          RS       5    FLOW      -1
1825          RC   0.050   0.016   0.050    3000  0.0006
1826          RX       0    0.85      34    83.3    86.7     136  169.15     170
1827          RY       3       1     0.5       0       0     0.5       1       3
              *

1828          KK   BD60k RETRIEVE
1829          KM    Retrieve diverted surface flow from D60k.
1830          DR    D60k
              *

1831          KK   CC60k COMBINE
1832          KM    Combine hydrographs D60k and R56kW.
1833          HC       2    4.46
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1834          KK   D60kW  DIVERT
1835          KM    Divert surface flow to south.
1836          DT   D60kS
1837          DI       0      49     106     362     554     788    1067
1838          DQ       0       0      36     235     390     583     814
              *

1839          KK   R60kW   ROUTE
1840          KM    Route surface flow west from Subbasin 60k to Subbasin 64k.
1841          RS       6    FLOW      -1
1842          RC   0.050   0.016   0.050    2800  0.0007
1843          RX       0     0.8      32    78.4    81.6     128   159.2     160
1844          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *

1845            KK     64k   BASIN
1846            KM    Subbasin at NEC of Grand Canal & Central Ave.
1847            BA   0.206
1848            LG    1.25    0.14    7.60    0.12      31
1849            UC   0.668   0.417
1850            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1851            UA     100
                *

1852            KK  BD64iS RETRIEVE
1853            KM    Retrieve diverted surface flow from D64iS.
1854            DR   D64iS
                *

1855            KK   R64iS   ROUTE
1856            KM    Route surface flow south from Subbasin 64i to Subbasin 64k.
1857            RS       3    FLOW      -1
1858            RC   0.050   0.016   0.050    2130  0.0047
1859            RX       0    1.25      50   122.5   127.5     200  248.75     250
1860            RY       3       1     0.5       0       0     0.5       1       3
                *

1861            KK    C64k COMBINE
1862            KM    Combine hydrographs 64k, R64iS, and R60kW.
1863            HC       3    6.43
                *

1864            KK    S64k STORAGE
1865            KM    Online Regional Retention Basin, 12 ac-ft.
1866            RS       1    STOR       0
1867            SV       0      12     149
1868            SE       0     0.5     2.5
1869            SS     0.5     500     2.7     1.5
                *
```



```
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1870            KK  BD64iP RETRIEVE
1871            KM    Retrieve diverted pipe flow from D64iP.
1872            DR   D64iP
                *

1873            KK   P64iS   ROUTE
1874            KM    Route pipe flow from Camelback/Central Ave. to Grand Canal/Central Ave.
1875            RK    2000  0.0034   0.015            CIRC     6.0
                *

1876            KK   CC64k COMBINE
1877            KM    Combine hydrographs P64iS and S64i.
1878            HC       2    6.43
                *

1879            KK    D64k  DIVERT
1880            KM    Divert 214 cfs into pipe.
1881            DT   D64kP
1882            DI       0     100     214   10000
1883            DQ       0     100     214     214
                *

1884            KK   D64kW  DIVERT
1885            KM    Divert surface flow to south.
1886            DT   D64kS
1887            DI       0     138     214     344     519    1004
1888            DQ       0       0      38     125     251     617
                *

1889            KK   R64kW   ROUTE
1890            KM    Route surface flow west from Subbasin 64k to Subbasin 68k.
1891            RS       3    FLOW      -1
1892            RC   0.050   0.016   0.050    2800  0.0008
1893            RX       0    0.75      30    73.5    76.5     120  149.25     150
1894            RY       3       1     0.5       0       0     0.5       1       3
                *

1895            KK     68k   BASIN
1896            KM    Subbasin at NEC of Grand Canal & 7th Ave.
1897            BA   0.204
1898            LG    0.79    0.14    8.40    0.09      26
1899            UC   0.716   0.437
1900            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1901            UA     100
                *
```

```
1902          KK    C68k COMBINE
1903          KM    Combine hydrographs 68k, C68iS, and R64kW.
1904          HC       3   12.71
              *
                                        HEC-1 INPUT                                                    PAGE 53

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1905          KK    D68k  DIVERT
1906          KM    Divert 114 cfs into pipe.
1907          DT   D68kP
1908          DI       0     100     114   10000
1909          DQ       0     100     114     114
              *

1910          KK   D68kW  DIVERT
1911          KM    Divert surface flow to south.
1912          DT   D68kS
1913          DI       0      49     105     209     352     747    1283
1914          DQ       0       0      35     113     225     542     977
              *

1915          KK   R68kW   ROUTE
1916          KM    Route surface flow west from Subbasin 68k to Subbasin 72k.
1917          RS       4    FLOW      -1
1918          RC   0.050   0.016   0.050    3000  0.0007
1919          RX       0     1.1      44   107.8   112.2     176   218.9     220
1920          RY       3       1     0.5       0       0     0.5       1       3
              *

1921          KK     72k   BASIN
1922          KM   Subbasin at NEC of Grand Canal & 15th Ave.
1923          BA   0.281
1924          LG    0.66    0.14    8.40    0.09      27
1925          UC   0.780   0.489
1926          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1927          UA     100
              *

1928          KK    S72k STORAGE
1929          KM    Online Local Retention Basin, 6 ac-ft.
1930          RS       1    STOR       0
1931          SV       0       6      12
1932          SE       0       1       2
1933          SS       1     400     2.7     1.5
              *

1934          KK  B72iP1 RETRIEVE
1935          KM    Retrieve diverted pipe flow from D72iP1.
1936          DR  D72iP1
              *

1937          KK   P72iS   ROUTE
1938          KM    Route pipe flow from Camelback/15th Ave. to Grand Canal/15th Ave.
1939          RK    3300  0.0024   0.015            CIRC     6.0
              *
1                                       HEC-1 INPUT                                                    PAGE 54

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1940          KK  BD72iS RETRIEVE
1941          KM    Retrieve diverted surface flow from D72iS.
1942          DR   D72iS
              *

1943          KK   R72iS   ROUTE
1944          KM    Route surface flow south from Subbasin 72i to Subbasin 72k.
1945          RS       3    FLOW      -1
1946          RC   0.050   0.016   0.050    2900  0.0028
1947          RX       0    1.05      42   102.9   107.1     168  208.95     210
1948          RY       3       1     0.5       0       0     0.5       1       3
              *

1949          KK   C72iS COMBINE
1950          KM    Combine hydrographs P72iS and R72iS.
1951          HC       2    8.68
              *

1952          KK    C72k COMBINE
1953          KM    Combine hydrographs S72k, C72iS, and R68kW.
1954          HC       3   12.99
              *
```

```
1955          KK   CC72k COMBINE
1956          KM    Combine hydrographs D76kP2 and C72k.
1957          HC       2   12.99
              *

1958          KK    D72k  DIVERT
1959          KM    Divert 281 cfs into pipe.
1960          DT   D72kP
1961          DI       0     100     281   10000
1962          DQ       0     100     281     281
              *

1963          KK   D72kW  DIVERT
1964          KM    Divert surface flow to south.
1965          DT   D72kS
1966          DI       0      51      99     186     460     860    1108
1967          DQ       0       0      29      95     314     642     847
              *

1968          KK   R72kW   ROUTE
1969          KM    Route surface flow west from Subbasin 72k to Subbasin 76k.
1970          RS       6    FLOW      -1
1971          RC   0.050   0.016   0.050    2800  0.0004
1972          RX       0     1.1      44   107.8   112.2     176   218.9     220
1973          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE 55

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1974          KK   B76k1 RETRIEVE
1975          KM    Retrieve diverted surface flow from D76k1.
1976          DR   D76k1
              *

1977          KK   CC76k COMBINE
1978          KM    Combine hydrographs D76k1 and R72kW.
1979          HC       2   13.31
              *

1980          KK    D76k  DIVERT
1981          KM    Divert flow 43 (41% of 106) cfs into pipe.
1982          DT   D76kP
1983          DI       0      43     100    1000   10000
1984          DQ       0      43      43      43      43
              *

1985          KK   D76kW  DIVERT
1986          KM    Divert surface flow to south.
1987          DT   D76kS
1988          DI       0      28     132     348     669    1096
1989          DQ       0       0      76     253     519     877
              *

1990          KK   R76kW   ROUTE
1991          KM    Route surface flow west from Subbasin 76k to Subbasin 80k.
1992          RS       9    FLOW      -1
1993          RC   0.050   0.016   0.050    3500  0.0003
1994          RX       0    1.35      54   132.3   137.7     216  268.65     270
1995          RY       3       1     0.5       0       0     0.5       1       3
              *

1996          KK     80k   BASIN
1997          KM    Subbasin at NEC of Grand Canal & 23rd Ave.
1998          BA   0.428
1999          LG    0.47    0.15    8.40    0.09      26
2000          UC   0.802   0.521
2001          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2002          UA     100
              *

2003          KK   BD80i RETRIEVE
2004          KM    Retrieve diverted surface flow from D80i.
2005          DR    D80i
              *

2006          KK   R80iS   ROUTE
2007          KM    Route surface flow south from Subbasin 80i to Subbasin 80k.
2008          RS       2    FLOW      -1
2009          RC   0.050   0.016   0.050    3500  0.0038
2010          RX       0    0.75      30    73.5    76.5     120  149.25     150
2011          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE 56
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2012          KK  B80kP1 RETRIEVE
2013          KM    Retrieve diverted pipe flow from D80kP1.
2014          DR  D80kP1
              *

2015          KK    C80k COMBINE
2016          KM    Combine hydrographs 80k,R80iS, and D80kP1.
2017          HC       3    3.68
              *

2018          KK    D80k  DIVERT
2019          KM    Divert 63 (59% of 106) cfs into pipe.
2020          DT   D80kP
2021          DI       0      63     100    1000   10000
2022          DQ       0      63      63      63      63
              *

2023          KK   CC80k COMBINE
2024          KM    Combine hydrographs R76kW and D80k.
2025          HC       2    4.68
              *

2026          KK   D80kW  DIVERT
2027          KM    Divert surface flow to south.
2028          DT   D80kS
2029          DI       0     152     286     833    1526
2030          DQ       0       0      41     316     721
              *

2031          KK   R80kW   ROUTE
2032          KM    Route surface flow west from Subbasin 80k to Subbasin 84k.
2033          RS       2    FLOW      -1
2034          RC   0.050   0.016   0.050    1500  0.0010
2035          RX       0    1.85      74   181.3   188.7     296  368.15     370
2036          RY       3       1     0.5       0       0     0.5       1       3
              *

2037          KK     84k   BASIN
2038          KM    Subbasin at NWC of Grand Canal & 23rd Ave.
2039          BA   0.311
2040          LG    0.57    0.15    8.40    0.09      35
2041          UC   1.001   1.024
2042          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2043          UA     100
              *

2044          KK  BD84iS RETRIEVE
2045          KM    Retrieve diverted surface flow from D84iS.
2046          DR   D84iS
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2047          KK   R84iS   ROUTE
2048          KM    Route surface flow south from Subbasin 84i to Subbasin 84k.
2049          RS       9    FLOW      -1
2050          RC   0.050   0.016   0.050    6900  0.0029
2051          RX       0    0.75      30    73.5    76.5     120  149.25     150
2052          RY       3       1     0.5       0       0     0.5       1       3
              *

2053          KK    C84k COMBINE
2054          KM    Combine hydrographs 84k, R84iS, and R80kW.
2055          HC       3    4.99
              *

2056          KK   R84kS   ROUTE
2057          KM    Route surface flow south from Subbasin 84k to Subbasin 84m.
2058          RS       3    FLOW      -1
2059          RC   0.050   0.016   0.050    4570  0.0035
2060          RX       0     0.5      20      49      51      80    99.5     100
2061          RY       3       1     0.5       0       0     0.5       1       3
              *

2062          KK     84m   BASIN
2063          KM    Subbasin at NWC of Thomas Rd. & 23rd Ave.
2064          BA   0.209
2065          LG    0.24    0.15    9.70    0.06      24
2066          UC   0.813   0.820
2067          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2068          UA     100
```

```
                *

2069            KK    C84m COMBINE
2070            KM    Combine hydrographs 84m and R84kS.
2071            HC       2    5.20
                *

2072            KK     I17   BASIN
2073            KM    Subbasin for I-17 from GC to ACDC.
2074            BA   0.293
2075            LG    0.10    0.25    4.80    0.25      99
2076            UC   0.593   0.576
2077            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2078            UA     100
                *

2079            KK    D84m  DIVERT
2080            KM    Divert 249 cfs into pipe.
2081            DT   D84mP
2082            DI       0     100     249   10000
2083            DQ       0     100     249     249
                *
1                                          HEC-1 INPUT                                          PAGE 58

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2084            KK   CC84m COMBINE
2085            KM    Combine hydrographs C84m and D84m.
2086            HC       2    5.49
                *

2087            KK   D84mE  DIVERT
2088            KM    Divert surface flow to south.
2089            DT   D84mS
2090            DI       0     100    1000   10000
2091            DQ       0      38     384    3841
                *

2092            KK   R84mE   ROUTE
2093            KM    Route surface flow east from Subbasin 84m to Subbasin 80m.
2094            RS       3    FLOW      -1
2095            RC   0.050   0.016   0.050    2540  0.0008
2096            RX       0     1.3      52   127.4   132.6     208   258.7     260
2097            RY       3       1     0.5       0       0     0.5       1       3
                *

2098            KK     80m   BASIN
2099            KM    Subbasin at NWC of Thomas Rd. & 19th Ave.
2100            BA   0.541
2101            LG    0.46    0.15    8.40    0.09      26
2102            UC   0.787   0.515
2103            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2104            UA     100
                *

2105            KK  BD80kS RETRIEVE
2106            KM    Retrieve diverted surface flow from D80kS.
2107            DR   D80kS
                *

2108            KK   R80kS   ROUTE
2109            KM    Route surface flow south from Subbasin 80k to Subbasin 80m.
2110            RS       3    FLOW      -1
2111            RC   0.050   0.016   0.050    5900  0.0037
2112            RX       0       1      40      98     102     160     199     200
2113            RY       3       1     0.5       0       0     0.5       1       3
                *

2114            KK    C80m COMBINE
2115            KM    Combine hydrographs R84mE, R80kS, and 80m.
2116            HC       3    6.03
                *

2117            KK   D80mE  DIVERT
2118            KM    Divert surface flow to south.
2119            DT   D80mS
2120            DI       0     100    1000   10000
2121            DQ       0      58     576    5763
                *
1                                          HEC-1 INPUT                                          PAGE 59

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2122            KK   R80mE   ROUTE
```

```
2123          KM    Route surface flow east from Subbasin 80m to Subbasin 76m.
2124          RS       3    FLOW      -1
2125          RC   0.050   0.016   0.050    2640  0.0008
2126          RX       0     0.8      32    78.4    81.6     128   159.2     160
2127          RY       3       1     0.5       0       0     0.5       1       3
              *

2128          KK     761   BASIN
2129          KM    Subbasin at NEC of Indian School Rd. & 19th Ave.
2130          BA   0.183
2131          LG    0.66    0.15    8.80    0.07      22
2132          UC   0.522   0.263
2133          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2134          UA     100
              *

2135          KK  BD80kP RETRIEVE
2136          KM    Retrieve diverted pipe flow from D80kP.
2137          DR   D80kP
              *

2138          KK  BD76kP RETRIEVE
2139          KM    Retrieve diverted pipe flow from D76kP.
2140          DR   D76kP
              *

2141          KK   C76kP COMBINE
2142          KM    Combine hydrographs D76kP and D80kP.
2143          HC       2   17.25
              *

2144          KK   P76kS   ROUTE
2145          KM    Route pipe flow from Subbasin 80k to Indian School/19th Ave.
2146          RK    1600  0.0039   0.015            CIRC     4.5
              *

2147          KK  BD76kS RETRIEVE
2148          KM    Retrieve diverted surface flow from D76kS.
2149          DR   D76kS
              *

2150          KK   R76kS   ROUTE
2151          KM    Route surface flow south from Subbasin 76k to Subbasin 761.
2152          RS       1    FLOW      -1
2153          RC   0.050   0.016   0.050    1700  0.0050
2154          RX       0       1      40      98     102     160     199     200
2155          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2156          KK   C76kS COMBINE
2157          KM    Combine hydrographs P76kS and R76kS.
2158          HC       2    4.68
              *

2159          KK    C761 COMBINE
2160          KM    Combine hydrographs 761 and C76kS.
2161          HC       2    4.86
              *

2162          KK    D761  DIVERT
2163          KM    Divert 156 cfs into pipe.
2164          DT   D761P
2165          DI       0     100     156   10000
2166          DQ       0     100     156     156
              *

2167          KK   R761S   ROUTE
2168          KM    Route surface flow south from Subbasin 761 to Subbasin 76m.
2169          RS       3    FLOW      -1
2170          RC   0.050   0.016   0.050    5280  0.0034
2171          RX       0       1      40      98     102     160     199     200
2172          RY       3       1     0.5       0       0     0.5       1       3
              *

2173          KK  BD761P RETRIEVE
2174          KM    Retrieve diverted pipe flow from D761P.
2175          DR   D761P
              *

2176          KK   P761S   ROUTE
2177          KM    Route pipe flow from Indian School/19th Ave. to Thomas/19th Ave.
2178          RK    5300  0.0037   0.015            CIRC    5.25
```

```
                *

2179            KK   C761S COMBINE
2180            KM    Combine hydrographs R761S and P761S.
2181            HC       2    4.86
                *

2182            KK     76m   BASIN
2183            KM    Subbasin at NWC of Thomas Rd. & 15th Ave.
2184            BA   0.492
2185            LG    0.60    0.15    8.80    0.07      24
2186            UC   0.791   0.514
2187            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2188            UA     100
                *
1                                          HEC-1 INPUT                                          PAGE 61

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2189            KK    S76m STORAGE
2190            KM    Online Local Retention Basin, 0.5 ac-ft.
2191            RS       1    STOR       0
2192            SV       0    0.47    2.27
2193            SE       0       2       4
2194            SS       2     100     2.7     1.5
                *

2195            KK    C76m COMBINE
2196            KM    Combine hydrographs R80mE, S76m, and C761S.
2197            HC       3    6.71
                *

2198            KK   D76mP  DIVERT
2199            KM    Divert flow into pipe.
2200            KM    Total Pipe flow = 191 cfs (32 cfs to east, 159 cfs to south)
2201            DT    D76m
2202            DI       0     100     191    1000   10000
2203            DQ       0       0       0     809    9809
                *

2204            KK  D76mP1  DIVERT
2205            KM    Divert flow into pipe.
2206            KM    Total Pipe flow = 191 cfs (32 cfs to east, 159 cfs to south)
2207            DT  D76mP2
2208            DI       0     191     200
2209            DQ       0      32      34
                *

2210            KK     721   BASIN
2211            KM    Subbasin at NWC of Indian School Rd. & 7th Ave.
2212            BA   0.215
2213            LG    1.24    0.15    8.80    0.07      26
2214            UC   0.904   0.801
2215            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2216            UA     100
                *

2217            KK  BD72kP RETRIEVE
2218            KM    Retrieve diverted pipe flow from D72kP.
2219            DR   D72kP
                *

2220            KK   P72kS   ROUTE
2221            KM    Route pipe flow from Grand Canal/15th Ave. to Indian School/15th Ave.
2222            RK    2850  0.0031   0.015            CIRC    6.75
                *

2223            KK  BD72kS RETRIEVE
2224            KM    Retrieve diverted surface flow from D72kS.
2225            DR   D72kS
                *
1                                          HEC-1 INPUT                                          PAGE 62

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2226            KK   R72kS   ROUTE
2227            KM    Route surface flow south from Subbasin 72k to Subbasin 721.
2228            RS       2    FLOW      -1
2229            RC   0.050   0.016   0.050    2900  0.0034
2230            RX       0     0.5      20      49      51      80    99.5     100
2231            RY       3       1     0.5       0       0     0.5       1       3
                *

2232            KK   C72kS COMBINE
```

```
2233          KM    Combine hydrographs R72kS and P72kS.
2234          HC       2   12.99
              *

2235          KK    C721 COMBINE
2236          KM    Combine hydrographs 721 and C72kS.
2237          HC       2   13.21
              *

2238          KK    D721  DIVERT
2239          KM    Divert 305 cfs into pipe.
2240          DT   D721P
2241          DI       0     100     305   10000
2242          DQ       0     100     305     305
              *

2243          KK   R721S   ROUTE
2244          KM    Route surface flow south from Subbasin 721 to Subbasin 72m.
2245          RS       3    FLOW      -1
2246          RC   0.050   0.016   0.050    5280  0.0030
2247          RX       0    1.05      42   102.9   107.1     168  208.95     210
2248          RY       3       1     0.5       0       0     0.5       1       3
              *

2249          KK  BD721P RETRIEVE
2250          KM    Retrieve diverted pipe flow from D721P.
2251          DR   D721P
              *

2252          KK   P721S   ROUTE
2253          KM    Route pipe flow from Indian School/15th Ave. to Thomas/15th Ave.
2254          RK    5280  0.0045   0.015            CIRC    6.50
              *

2255          KK   C721S COMBINE
2256          KM    Combine hydrographs R721S and P721S.
2257          HC       2   13.21
              *

2258          KK     72m   BASIN
2259          KM    Subbasin at NWC of Thomas Rd. & 15th Ave.
2260          BA   0.468
2261          LG    0.31    0.15    8.80    0.08      27
2262          UC   0.875   0.636
2263          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2264          UA     100
              *

2265          KK    C72m COMBINE
2266          KM    Combine hydrographs 72m, C721S, and D76mP1.
2267          HC       3   13.67
              *

2268          KK     601   BASIN
2269          KM    Subbasin at NEC of Indian School Rd. & 7th St.
2270          BA   0.234
2271          LG    0.37    0.25    4.80    0.37      30
2272          UC   0.788   0.571
2273          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2274          UA     100
              *

2275          KK  B60kP2 RETRIEVE
2276          KM    Retrieve diverted pipe flow from D60kP2.
2277          DR  D60kP2
              *

2278          KK   P60kS   ROUTE
2279          KM    Route pipe flow from Grand Canal/7th St. to Indian School/7th St.
2280          RK    2750  0.0030   0.015            CIRC    4.50
              *

2281          KK  BD60kS RETRIEVE
2282          KM    Retrieve diverted surface flow from D60kS.
2283          DR   D60kS
              *

2284          KK   R60kS   ROUTE
2285          KM    Route surface flow south from Subbasin 60k to Subbasin 601.
2286          RS       2    FLOW      -1
2287          RC   0.050   0.016   0.050    1855  0.0054
2288          RX       0     0.5      20      49      51      80    99.5     100
```

```
2289          RY       3       1     0.5       0       0     0.5       1       3
              *

2290          KK   C60kS COMBINE
2291          KM    Combine hydrographs R60kS and P60kS.
2292          HC       2    4.46
              *

2293          KK    C601 COMBINE
2294          KM    Combine hydrographs C60kS and 601.
2295          HC       2    4.69
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2296          KK    D601  DIVERT
2297          KM    Divert 93 cfs into pipe.
2298          DT   D601P
2299          DI       0      93    1000   10000
2300          DQ       0      93      93      93
              *

2301          KK   D601W  DIVERT
2302          KM    Divert surface flow to south.
2303          DT   D601S
2304          DI       0     100    1000   10000
2305          DQ       0      73     727    7275
              *

2306          KK   R601W   ROUTE
2307          KM    Route surface flow west from Subbasin 601 to Subbasin 641.
2308          RS       5    FLOW      -1
2309          RC   0.050   0.016   0.050    2640  0.0008
2310          RX       0    0.75      30    73.5    76.5     120  149.25     150
2311          RY       3       1     0.5       0       0     0.5       1       3
              *

2312          KK     641   BASIN
2313          KM    Subbasin at NEC of Indian School Rd. & Central Ave.
2314          BA   0.295
2315          LG    1.36    0.15    8.00    0.11      21
2316          UC   1.066   0.816
2317          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2318          UA     100
              *

2319          KK  BD64kS RETRIEVE
2320          KM    Retrieve diverted surface flow from D64kS.
2321          DR   D64kS
              *

2322          KK   R64kS   ROUTE
2323          KM    Route surface flow south from Subbasin 64k to Subbasin 641.
2324          RS       2    FLOW      -1
2325          RC   0.050   0.016   0.050    2780  0.0043
2326          RX       0     0.5      20      49      51      80    99.5     100
2327          RY       3       1     0.5       0       0     0.5       1       3
              *

2328          KK    C641 COMBINE
2329          KM    Combine hydrographs 641, R64kS, and R601W.
2330          HC       3    6.96
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2331          KK    S641 STORAGE
2332          KM    Online Regional Retention Basin, 35 ac-ft.
2333          RS       1    STOR       0
2334          SV       0      35      92
2335          SE       0       2       4
2336          SS       2     900     2.7     1.5
              *

2337          KK  BD64kP RETRIEVE
2338          KM    Retrieve diverted pipe flow from D64kP.
2339          DR   D64kP
              *

2340          KK   P64kS   ROUTE
2341          KM    Route pipe flow from Grand Canal/Central Ave. to Indian School/Central Ave.
2342          RK    3300  0.0034   0.015            CIRC    6.00
```

```
                *

2343            KK   CC641 COMBINE
2344            KM    Combine hydrographs S641 and P64kS.
2345            HC       2    6.96
                *

2346            KK    D641  DIVERT
2347            KM    Divert 303 cfs into pipe.
2348            DT   D641P
2349            DI       0     100     303   10000
2350            DQ       0     100     303     303
                *

2351            KK   D641W  DIVERT
2352            KM    Divert surface flow to south.
2353            DT   D641S
2354            DI       0     100    1000   10000
2355            DQ       0      86     856    8565
                *

2356            KK   R641W   ROUTE
2357            KM    Route surface flow west from Subbasin 641 to Subbasin 681.
2358            RS       5    FLOW      -1
2359            RC   0.050   0.016   0.050    2980  0.0004
2360            RX       0     0.5      20      49      51      80    99.5     100
2361            RY       3       1     0.5       0       0     0.5       1       3
                *

2362            KK     681   BASIN
2363            KM    Subbasin at NEC of Indian School Rd. & 7th Ave.
2364            BA   0.317
2365            LG    0.59    0.15    8.80    0.07      26
2366            UC   0.926   0.751
2367            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2368            UA     100
                *
1                                          HEC-1 INPUT                                          PAGE 66

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2369            KK  BD68kP RETRIEVE
2370            KM    Retrieve diverted pipe flow from D68kP.
2371            DR   D68kP
                *

2372            KK   P68kS   ROUTE
2373            KM    Route pipe flow from Grand Canal/7th Ave. to Indian School/7th Ave.
2374            RK    2900  0.0034   0.015            CIRC    4.75
                *

2375            KK  BD68kS RETRIEVE
2376            KM    Retrieve diverted surface flow from D68kS.
2377            DR   D68kS
                *

2378            KK   R68kS   ROUTE
2379            KM    Route surface flow south from Subbasin 68k to Subbasin 681.
2380            RS       2    FLOW      -1
2381            RC   0.050   0.016   0.050    3290  0.0036
2382            RX       0     0.5      20      49      51      80    99.5     100
2383            RY       3       1     0.5       0       0     0.5       1       3
                *

2384            KK   C68kS COMBINE
2385            KM    Combine hydrographs R68kS and P68kS.
2386            HC       2   12.71
                *

2387            KK    C681 COMBINE
2388            KM    Combine hydrographs 681, C68kS, and R641W.
2389            HC       3   13.56
                *

2390            KK    D681  DIVERT
2391            KM    Divert 114 cfs into pipe.
2392            DT   D681P
2393            DI       0     100     114   10000
2394            DQ       0     100     114     114
                *

2395            KK   R681S   ROUTE
2396            KM    Route surface flow south from Subbasin 681 to Subbasin 68m.
2397            RS       4    FLOW      -1
2398            RC   0.050   0.016   0.050    5235  0.0027
```

```
2399          RX       0     1.3      52   127.4   132.6     208   258.7     260
2400          RY       3       1     0.5       0       0     0.5       1       3
              *

2401          KK  BD681P RETRIEVE
2402          KM    Retrieve diverted pipe flow from D681P.
2403          DR   D681P
              *
1                                        HEC-1 INPUT                                                    PAGE 67

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2404          KK   P681S   ROUTE
2405          KM    Route pipe flow from Indian School/7th Ave. to Thomas/7th Ave.
2406          RK    5300  0.0034   0.015            CIRC    4.75
              *

2407          KK   C681S COMBINE
2408          KM    Combine hydrographs R681S and P681S.
2409          HC       2   13.56
              *

2410          KK     24m   BASIN
2411          KM    Subbasin at NEC of Thomas Rd. & 44th St.
2412          BA   0.502
2413          LG    1.65    0.25    4.80    0.38      24
2414          UC   0.908   0.681
2415          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2416          UA     100
              *

2417          KK    S24m STORAGE
2418          KM    Online Local Retention Basin, 0.5 ac-ft.
2419          RS       1    STOR       0
2420          SV       0     0.5     1.2
2421          SE       0       2       4
2422          SS       2     100     2.7     1.5
              *

2423          KK  BD24kS RETRIEVE
2424          KM    Retrieve diverted surface flow from D24kS.
2425          DR   D24kS
              *

2426          KK   R24kS   ROUTE
2427          KM    Route surface flow south from Subbasin 24k to Subbasin 24m.
2428          RS       6    FLOW      -1
2429          RC   0.050   0.016   0.050    5280  0.0087
2430          RX       0    1.25      50   122.5   127.5     200  248.75     250
2431          RY       3       1     0.5       0       0     0.5       1       3
              *

2432          KK    C24m COMBINE
2433          KM    Combine hydrographs S24m and R24kS.
2434          HC       2    0.69
              *

2435          KK   D24mW  DIVERT
2436          KM    Divert surface flow to south.
2437          DT   D24mS
2438          DI       0     100    1000   10000
2439          DQ       0      43     428    4278
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2440          KK   R24mW   ROUTE
2441          KM    Route surface flow west from Subbasin 24m to Subbasin 28m.
2442          RS       3    FLOW      -1
2443          RC   0.050   0.016   0.050    2840  0.0045
2444          RX       0     1.8      72   176.4   183.6     288   358.2     360
2445          RY       3       1     0.5       0       0     0.5       1       3
              *

2446          KK     28m   BASIN
2447          KM    Subbasin at NEC of Thomas Rd. & 40th St.
2448          BA   0.508
2449          LG    1.85    0.25    4.80    0.36      22
2450          UC   0.963   0.722
2451          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2452          UA     100
              *
```

```
2453          KK  BD28kP RETRIEVE
2454          KM    Retrieve diverted pipe flow from D28kP.
2455          DR   D28kP
              *

2456          KK   P28kS   ROUTE
2457          KM    Route pipe flow from Indian School/40th St. to Thomas/40th St.
2458          RK    5300  0.0059   0.015            CIRC    4.50
              *

2459          KK  BD28kS RETRIEVE
2460          KM    Retrieve diverted surface flow from D28kS.
2461          DR   D28kS
              *

2462          KK   R28kS   ROUTE
2463          KM    Route surface flow south from Subbasin 28k to Subbasin 28m.
2464          RS       6    FLOW      -1
2465          RC   0.050   0.016   0.050    5280  0.0076
2466          RX       0       1      40      98     102     160     199     200
2467          RY       3       1     0.5       0       0     0.5       1       3
              *

2468          KK   C28kS COMBINE
2469          KM    Combine hydrographs R28kS and P28kS.
2470          HC       2    0.72
              *

2471          KK    C28m COMBINE
2472          KM    Combine hydrographs 28m, C28kS, and R24mW.
2473          HC       3    1.73
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2474          KK    D28m  DIVERT
2475          KM    Divert 211 cfs into pipe.
2476          DT   D28mP
2477          DI       0     100     211   10000
2478          DQ       0     100     211     211
              *

2479          KK   D28mW  DIVERT
2480          KM    Divert surface flow to south.
2481          DT   D28mS
2482          DI       0     100    1000   10000
2483          DQ       0      44     443    4427
              *

2484          KK   R28mW   ROUTE
2485          KM    Route surface flow west from Subbasin 28m to Subbasin 32m.
2486          RS       3    FLOW      -1
2487          RC   0.050   0.016   0.050    2640  0.0038
2488          RX       0     1.3      52   127.4   132.6     208   258.7     260
2489          RY       3       1     0.5       0       0     0.5       1       3
              *

2490          KK     32m   BASIN
2491          KM    Subbasin at NEC of Thomas Rd. & 36th St.
2492          BA   0.514
2493          LG    1.32    0.25    4.80    0.36      27
2494          UC   0.863   0.635
2495          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2496          UA     100
              *

2497          KK    S32m STORAGE
2498          KM    Online Local Retention Basin, 0.6 ac-ft.
2499          RS       1    STOR       0
2500          SV       0     0.2     0.6     1.2
2501          SE       0       2       4       6
2502          SS       4      50     2.7     1.5
              *

2503          KK  BD32kP RETRIEVE
2504          KM    Retrieve diverted pipe flow from D32kP.
2505          DR   D32kP
              *

2506          KK   P32kS   ROUTE
2507          KM    Route pipe flow from Indian School/36th St. to Thomas/36th St.
2508          RK    5400  0.0044   0.015            CIRC    4.00
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2509          KK  BD32kS RETRIEVE
2510          KM    Retrieve diverted surface flow from D32kS.
2511          DR   D32kS
              *

2512          KK   R32kS   ROUTE
2513          KM    Route surface flow south from Subbasin 32k to Subbasin 32m.
2514          RS       6    FLOW      -1
2515          RC   0.050   0.016   0.050    5280  0.0076
2516          RX       0    1.05      42   102.9   107.1     168  208.95     210
2517          RY       3       1     0.5       0       0     0.5       1       3
              *

2518          KK   C32kS COMBINE
2519          KM    Combine hydrographs R32kS and P32kS.
2520          HC       2    1.23
              *

2521          KK    C32m COMBINE
2522          KM    Combine hydrographs S32m, C32kS, and R28mW.
2523          HC       3    2.75
              *

2524          KK    D32m DIVERT
2525          KM    Divert 66 cfs into 54" pipe.
2526          DT   D32mP
2527          DI       0      66    1000   10000
2528          DQ       0      66      66      66
              *

2529          KK   D32mW  DIVERT
2530          KM    Divert surface flow to south.
2531          DT   D32mS
2532          DI       0     100    1000   10000
2533          DQ       0      43     430    4300
              *

2534          KK   R32mW   ROUTE
2535          KM    Route surface flow west from Subbasin 32m to Subbasin 36m.
2536          RS       2    FLOW      -1
2537          RC   0.050   0.016   0.050    2640  0.0023
2538          RX       0    1.35      54   132.3   137.7     216  268.65     270
2539          RY       3       1     0.5       0       0     0.5       1       3
              *

2540          KK     36m   BASIN
2541          KM    Subbasin at NEC of Thomas Rd. & 32nd St.
2542          BA   0.514
2543          LG    1.59    0.25    4.80    0.36      25
2544          UC   0.960   0.715
2545          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2546          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2547          KK  BD36kP RETRIEVE
2548          KM    Retrieve diverted pipe flow from D36kP.
2549          DR   D36kP
              *

2550          KK   P36kS   ROUTE
2551          KM    Route pipe flow from Indian School/32nd St. to Thomas/32nd St.
2552          RK    5300  0.0046   0.015            CIRC    3.50
              *

2553          KK  BD36kS RETRIEVE
2554          KM    Retrieve diverted surface flow from D36kS.
2555          DR   D36kS
              *

2556          KK   R36kS   ROUTE
2557          KM    Route surface flow south from Subbasin 36k to Subbasin 36m.
2558          RS       3    FLOW      -1
2559          RC   0.050   0.016   0.050    5280  0.0068
2560          RX       0     0.8      32    78.4    81.6     128  159.2     160
2561          RY       3       1     0.5       0       0     0.5       1       3
              *

2562          KK   C36kS COMBINE
```

```
2563          KM    Combine hydrographs R36kS and P36kS.
2564          HC       2    2.07
              *

2565          KK    C36m COMBINE
2566          KM    Combine hydrographs 36m, C36kS, and R32mW.
2567          HC       3    4.11
              *

2568          KK    D36m  DIVERT
2569          KM    Divert 114 cfs into pipe.
2570          DT   D36mP
2571          DI       0     100     114   10000
2572          DQ       0     100     114     114
              *

2573          KK   D36mW  DIVERT
2574          KM    Divert surface flow to south.
2575          DT   D36mS
2576          DI       0     100    1000   10000
2577          DQ       0      48     480    4800
              *

2578          KK   R36mW   ROUTE
2579          KM    Route surface flow west from Subbasin 36m to Subbasin 40m.
2580          RS       2    FLOW      -1
2581          RC   0.050   0.016   0.050    2640  0.0045
2582          RX       0     1.9      76   186.2   193.8     304   378.1     380
2583          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE 72

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2584          KK     40m   BASIN
2585          KM    Subbasin at NEC of Thomas Rd. & 28th St.
2586          BA   0.511
2587          LG    0.85    0.25    4.80    0.36      29
2588          UC   0.826   0.607
2589          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2590          UA     100
              *

2591          KK  BD40kP RETRIEVE
2592          KM    Retrieve diverted pipe flow from D40kP.
2593          DR   D40kP
              *

2594          KK   P40kS   ROUTE
2595          KM    Route pipe flow from Indian School/28th St. to Thomas/28th St.
2596          RK    5400  0.0041   0.015            CIRC     3.0
              *

2597          KK  BD40kS RETRIEVE
2598          KM    Retrieve diverted surface flow from D40kS.
2599          DR   D40kS
              *

2600          KK   R40kS   ROUTE
2601          KM    Route surface flow south from Subbasin 40k to Subbasin 40m.
2602          RS       5    FLOW      -1
2603          RC   0.050   0.016   0.050    5280  0.0068
2604          RX       0     0.8      32    78.4    81.6     128   159.2     160
2605          RY       3       1     0.5       0       0     0.5       1       3
              *

2606          KK   C40kS COMBINE
2607          KM    Combine hydrographs R40kS and P40kS.
2608          HC       2    2.80
              *

2609          KK    C40m COMBINE
2610          KM    Combine hydrographs 40m, C40kS, and R36mW.
2611          HC       3    5.35
              *

2612          KK    D40m  DIVERT
2613          KM    Divert 66 cfs flow into pipe.
2614          DT   D40mP
2615          DI       0      66     500    1000
2616          DQ       0      66      66      66
              *
                                         HEC-1 INPUT                                                    PAGE 73

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
2617          KK   D40mW  DIVERT
2618          KM    Divert surface flow to south.
2619          DT   D40mS
2620          DI       0     100    1000   10000
2621          DQ       0      43     430    4300
              *

2622          KK   R40mW   ROUTE
2623          KM    Route surface flow west from Subbasin 40m to Subbasin 44m.
2624          RS       3    FLOW      -1
2625          RC   0.050   0.016   0.050    2640  0.0045
2626          RX       0     1.9      76   186.2   193.8     304   378.1     380
2627          RY       3       1     0.5       0       0     0.5       1       3
              *

2628          KK     44m   BASIN
2629          KM    Subbasin at NEC of Thomas Rd. & 24th St.
2630          BA   0.504
2631          LG    1.28    0.25    4.80    0.37      27
2632          UC   0.901   0.673
2633          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2634          UA     100
              *

2635          KK  BD44kP RETRIEVE
2636          KM    Retrieve diverted pipe flow from D44kP.
2637          DR   D44kP
              *

2638          KK   P44kS   ROUTE
2639          KM    Route pipe flow from Indian School/24th St. to Thomas/24th St.
2640          RK    5300  0.0033   0.015            CIRC    4.00
              *

2641          KK  BD44kS RETRIEVE
2642          KM    Retrieve diverted surface flow from D44kS.
2643          DR   D44kS
              *

2644          KK   R44kS   ROUTE
2645          KM    Route surface flow south from Subbasin 44k to Subbasin 44m.
2646          RS       3    FLOW      -1
2647          RC   0.050   0.016   0.050    5280  0.0064
2648          RX       0    0.75      30    73.5    76.5     120  149.25     150
2649          RY       3       1     0.5       0       0     0.5       1       3
              *

2650          KK   C44kS COMBINE
2651          KM    Combine hydrographsR44kS and P44kS.
2652          HC       2    3.93
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2653          KK    C44m COMBINE
2654          KM    Combine hydrographs 44m, C44kS, and R40mW.
2655          HC       3    6.98
              *

2656          KK    D44m  DIVERT
2657          KM    Divert 124 cfs into pipe.
2658          DT   D44mP
2659          DI       0     100     124   10000
2660          DQ       0     100     124     124
              *

2661          KK   D44mW  DIVERT
2662          KM    Divert surface flow to south.
2663          DT   D44mS
2664          DI       0     100    1000   10000
2665          DQ       0      42     424    4242
              *

2666          KK   R44mW   ROUTE
2667          KM    Route surface flow west from Subbasin 44m to Subbasin 48m.
2668          RS       2    FLOW      -1
2669          RC   0.050   0.016   0.050    2700  0.0023
2670          RX       0     2.1      84   205.8   214.2     336   417.9     420
2671          RY       3       1     0.5       0       0     0.5       1       3
              *

2672          KK     24o   BASIN
```

```
2673          KM   Subbasin at NEC of McDowell Rd. & 44th St.
2674          BA   0.504
2675          LG    1.13    0.25    4.80    0.37      30
2676          UC   0.913   0.683
2677          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2678          UA     100
              *

2679          KK  BD24mS RETRIEVE
2680          KM    Retrieve diverted surface flow from D24mS.
2681          DR   D24mS
              *

2682          KK   R24mS   ROUTE
2683          KM    Route surface flow south from Subbasin 24m to Subbasin 24o.
2684          RS       5    FLOW      -1
2685          RC   0.050   0.016   0.050    5280  0.0061
2686          RX       0    1.05      42   102.9   107.1     168  208.95     210
2687          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                          PAGE 75

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2688          KK    C24o COMBINE
2689          KM    Combine hydrographs 24o and R24mS.
2690          HC       2    1.20
              *

2691          KK    D24o  DIVERT
2692          KM    Divert 48 cfs into pipe.
2693          DT   D24oP
2694          DI       0      48    1000   10000
2695          DQ       0      48      48      48
              *

2696          KK   D24oW  DIVERT
2697          KM    Divert surface flow to south.
2698          DT   D24oS
2699          DI       0     100    1000   10000
2700          DQ       0      38     378    3782
              *

2701          KK   R24oW   ROUTE
2702          KM    Route surface flow west from Subbasin 24o to Subbasin 28o.
2703          RS       2    FLOW      -1
2704          RC   0.050   0.016   0.050    2640  0.0053
2705          RX       0    1.55      62   151.9   158.1     248  308.45     310
2706          RY       3       1     0.5       0       0     0.5       1       3
              *

2707          KK     28o   BASIN
2708          KM   Subbasin at NEC of McDowell Rd. & 40th St.
2709          BA   0.500
2710          LG    1.64    0.25    4.80    0.36      23
2711          UC   1.002   0.761
2712          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2713          UA     100
              *

2714          KK  BD28mP RETRIEVE
2715          KM    Retrieve diverted pipe flow from D28mP.
2716          DR   D28mP
              *

2717          KK   P28mS   ROUTE
2718          KM    Route pipe flow from Thomas/40th St. to McDowell/40th St.
2719          RK    5280  0.0033   0.015            CIRC    6.00
              *

2720          KK  BD28mS RETRIEVE
2721          KM    Retrieve diverted surface flow from D28mS.
2722          DR   D28mS
              *
1                                          HEC-1 INPUT                                          PAGE 76

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2723          KK   R28mS   ROUTE
2724          KM    Route surface flow south from Subbasin 28m to Subbasin 28o.
2725          RS       5    FLOW      -1
2726          RC   0.050   0.016   0.050    5280  0.0061
2727          RX       0     0.8      32    78.4    81.6     128   159.2     160
2728          RY       3       1     0.5       0       0     0.5       1       3
```

```
*

KK   C28mS COMBINE
KM    Combine hydrographsR28mS and P28mS.
HC       2    1.73
*

KK    C28o COMBINE
KM    Combine hydrographs 28o, C28mS, and R24oW.
HC       3    2.73
*

KK    D28o  DIVERT
KM    Divert 367 cfs into pipe.
DT   D28oP
DI       0     100     367   10000
DQ       0     100     367     367
*

KK   D28oW  DIVERT
KM    Divert surface flow to south.
DT   D28oS
DI       0     100    1000   10000
DQ       0      42     419    4194
*

KK   R28oW   ROUTE
KM    Route surface flow west from Subbasin 28o to Subbasin 32o.
RS       3    FLOW      -1
RC   0.050   0.016   0.050    2640  0.0038
RX       0    1.85      74   181.3   188.7     296  368.15     370
RY       3       1     0.5       0       0     0.5       1       3
*

KK     32o   BASIN
KM    Subbasin at NEC of McDowell Rd. & 36th St.
BA   0.500
LG    1.19    0.25    4.80    0.37      26
UC   0.906   0.681
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK  BD32mS RETRIEVE
KM    Retrieve diverted surface flow from D32mS.
DR   D32mS
*

KK   R32mS   ROUTE
KM    Route surface flow south from Subbasin 32m to Subbasin 32o.
RS       3    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0061
RX       0       1      40      98     102     160     199     200
RY       3       1     0.5       0       0     0.5       1       3
*

KK  BD32mP RETRIEVE
KM    Retrieve diverted pipe flow from D32mP.
DR   D32mP
*

KK   P32mS  ROUTE
KM    Route pipe flow from Thomas/36th St. to McDowell/36nd St.
RK    5280  0.0060   0.015            CIRC     4.5
*

KK   C32mS COMBINE
KM    Combine hydrographs P32mW and R32mS.
HC       2    2.75
*

KK    C32o COMBINE
KM    Combine hydrographs 32o, C32mS, and R28oW.
HC       3    4.25
*

KK    D32o  DIVERT
KM    Divert 160 cfs flow into 72" pipe (south).
DT   D32oP
DI       0     160    1000   10000
DQ       0     160     160     160
*
```

```
2784          KK   D32oW  DIVERT
2785          KM    Divert surface flow to south.
2786          DT   D32oS
2787          DI       0     100    1000   10000
2788          DQ       0      44     442    4415
              *

2789          KK   R32oW   ROUTE
2790          KM    Route surface flow west from Subbasin 32o to Subbasin 36o.
2791          RS       3    FLOW      -1
2792          RC   0.050   0.016   0.050    2640  0.0030
2793          RX       0     0.8      32    78.4    81.6     128   159.2     160
2794          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE 78

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2795          KK     36o   BASIN
2796          KM    Subbasin at NEC of McDowell Rd. & 32nd St.
2797          BA   0.500
2798          LG    0.66    0.25    4.80    0.36      24
2799          UC   0.855   0.639
2800          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2801          UA     100
              *

2802          KK  BD36mP RETRIEVE
2803          KM    Retrieve diverted pipe flow from D36mP.
2804          DR   D36mP
              *

2805          KK   P36mS   ROUTE
2806          KM    Route pipe flow from Thomas/32nd St. to McDowell/32nd St.
2807          RK    5300  0.0045   0.015            CIRC    4.50
              *

2808          KK  BD36mS RETRIEVE
2809          KM    Retrieve diverted surface flow from D36mS.
2810          DR   D36mS
              *

2811          KK   R36mS   ROUTE
2812          KM    Route surface flow south from Subbasin 36m to Subbasin 36o.
2813          RS       4    FLOW      -1
2814          RC   0.050   0.016   0.050    5280  0.0057
2815          RX       0    1.25      50   122.5   127.5     200  248.75     250
2816          RY       3       1     0.5       0       0     0.5       1       3
              *

2817          KK   C36mS COMBINE
2818          KM    Combine hydrographs R36mS and P36mS.
2819          HC       2    4.11
              *

2820          KK    C36o COMBINE
2821          KM    Combine hydrographs 36o, C36mS, and R32oW.
2822          HC       3    6.12
              *

2823          KK    D36o  DIVERT
2824          KM    Divert 139 cfs into pipe.
2825          DT   D36oP
2826          DI       0     100     139   10000
2827          DQ       0     100     139     139
              *
1                                          HEC-1 INPUT                                                    PAGE 79

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2828          KK   D36oW  DIVERT
2829          KM    Divert surface flow to south.
2830          DT   D36oS
2831          DI       0     100    1000   10000
2832          DQ       0      43     430    4300
              *

2833          KK   R36oW   ROUTE
2834          KM    Route surface flow west from Subbasin 36o to Subbasin 40o.
2835          RS       3    FLOW      -1
2836          RC   0.050   0.016   0.050    2000  0.0022
2837          RX       0    1.65      66   161.7   168.3     264  328.35     330
2838          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *

2839            KK   B40mP RETRIEVE
2840            KM    Retrieve diverted pipe flow from D40mP.
2841            DR   D40mP
                *

2842            KK   P40mS   ROUTE
2843            KM    Route pipe flow from Thomas/28th St. to McDowell/28th St.
2844            RK    3800  0.0041   0.015            CIRC    4.50
                *

2845            KK  BD40mS RETRIEVE
2846            KM    Retrieve diverted surface flow from D40mS.
2847            DR   D40mS
                *

2848            KK   R40mS   ROUTE
2849            KM    Route surface flow south from Subbasin 40m to Subbasin 40o.
2850            RS       5    FLOW      -1
2851            RC   0.050   0.016   0.050    4900  0.0053
2852            RX       0    1.55      62   151.9   158.1     248  308.45     310
2853            RY       3       1     0.5       0       0     0.5       1       3
                *

2854            KK   C40mS COMBINE
2855            KM    Combine hydrographs R40mS and P40mS.
2856            HC       2    5.35
                *

2857            KK     40o   BASIN
2858            KM    Subbasin at NEC of Grand Canal & 28th St.
2859            BA   0.465
2860            LG    1.13    0.24    4.80    0.36      23
2861            UC   0.877   0.603
2862            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2863            UA     100
                *
1                                          HEC-1 INPUT                                          PAGE 80

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2864            KK    C40o COMBINE
2865            KM    Combine hydrographs 40o, C40mS, and R36oW.
2866            HC       3    7.82
                *

2867            KK    D40o  DIVERT
2868            KM    Divert 70 cfs into pipe.
2869            DT   D40oP
2870            DI       0      70    1000   10000
2871            DQ       0      70      70      70
                *

2872            KK   D40oW  DIVERT
2873            KM    Divert surface flow to south.
2874            DT   D40oS
2875            DI       0      51     224     454     788    1511
2876            DQ       0       0      85     225     441     927
                *

2877            KK   R40oW   ROUTE
2878            KM    Route surface flow west from Subbasin 40o to Subbasin 44o.
2879            RS       6    FLOW      -1
2880            RC   0.050   0.016   0.050    3500  0.0012
2881            RX       0    1.35      54   132.3   137.7     216  268.65     270
2882            RY       3       1     0.5       0       0     0.5       1       3
                *

2883            KK     44o   BASIN
2884            KM    Subbasin at NEC of Grand Canal & 24th St.
2885            BA   0.229
2886            LG    1.41    0.24    4.80    0.36      21
2887            UC   0.812   0.575
2888            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2889            UA     100
                *

2890            KK  BD44mP RETRIEVE
2891            KM    Retrieve diverted pipe flow from D44mP.
2892            DR   D44mP
                *

2893            KK   P44mS   ROUTE
2894            KM    Route pipe flow from Thomas/24th St to McDowell/24th St.
```

```
2895          RK    1150  0.0030   0.015            CIRC     5.0
              *

2896          KK  BD44mS RETRIEVE
2897          KM    Retrieve diverted surface flow from D44mS.
2898          DR   D44mS
              *
1                                        HEC-1 INPUT                                                    PAGE 81

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2899          KK   R44mS   ROUTE
2900          KM    Route surface flow south from Subbasin 44m to Subbasin 44o.
2901          RS       2    FLOW      -1
2902          RC   0.050   0.016   0.050    2400  0.0058
2903          RX       0     1.3      52   127.4   132.6     208   258.7     260
2904          RY       3       1     0.5       0       0     0.5       1       3
              *

2905          KK   C44mS COMBINE
2906          KM    Combine hydrographs R44mS and P44mS.
2907          HC       2    6.98
              *

2908          KK    C44o COMBINE
2909          KM    Combine hydrographs 44o, C44mS, and R40oW.
2910          HC       3    9.68
              *

2911          KK    D44o  DIVERT
2912          KM    Divert 124 cfs into pipe.
2913          DT   D44oP
2914          DI       0     100     124   10000
2915          DQ       0     100     124     124
              *

2916          KK   D44oW  DIVERT
2917          KM    Divert surface flow to south.
2918          DT   D44oS
2919          DI       0      27     198     433     769    1484
2920          DQ       0       0     119     299     561    1124
              *

2921          KK   R44oW   ROUTE
2922          KM    Route surface flow west from Subbasin 44o to Subbasin 48m.
2923          RS       8    FLOW      -1
2924          RC   0.050   0.016   0.050    4000  0.0006
2925          RX       0    1.05      42   102.9   107.1     168  208.95     210
2926          RY       3       1     0.5       0       0     0.5       1       3
              *

2927          KK   C44mW COMBINE
2928          KM    Combine hydrographs R44mW and R44oW.
2929          HC       2    9.68
              *

2930          KK     48m   BASIN
2931          KM    Subbasin at NEC of Grand Canal & 20th St.
2932          BA   0.481
2933          LG    1.04    0.24    4.80    0.36      26
2934          UC   0.861   0.580
2935          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2936          UA     100
              *
1                                        HEC-1 INPUT                                                    PAGE 82

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2937          KK  BD48kS RETRIEVE
2938          KM    Retrieve diverted surface flow from D48kS.
2939          DR   D48kS
              *

2940          KK   R48kS   ROUTE
2941          KM    Route surface flow south from Subbasin 48k to Subbasin 48m.
2942          RS       3    FLOW      -1
2943          RC   0.050   0.016   0.050    4500  0.0048
2944          RX       0    1.05      42   102.9   107.1     168  208.95     210
2945          RY       3       1     0.5       0       0     0.5       1       3
              *

2946          KK    C48m COMBINE
2947          KM    Combine hydrographs 48m, C44mW, and R48kS.
2948          HC       3   11.19
```

```
                *

2949            KK  BD52kP RETRIEVE
2950            KM    Retrieve diverted pipe flow from D52kP.
2951            DR   D52kP
                *

2952            KK   P52kS   ROUTE
2953            KM    Route pipe flow from Indian School/SR51 to Grand Canal/SR51.
2954            RK    4500  0.0030   0.015            CIRC     6.0
                *

2955            KK  BD52kS RETRIEVE
2956            KM    Retrieve diverted surface flow from D52kS.
2957            DR   D52kS
                *

2958            KK   R52kS   ROUTE
2959            KM    Route surface flow south from Subbasin 52k to Subbasin 52m.
2960            RS       2    FLOW      -1
2961            RC   0.050   0.016   0.050    2600  0.0046
2962            RX       0    0.75      30    73.5    76.5     120  149.25     150
2963            RY       3       1     0.5       0       0     0.5       1       3
                *

2964            KK   C52kS COMBINE
2965            KM    Combine hydrographs R52kS and P52kS.
2966            HC       2    5.83
                *

2967            KK     52m   BASIN
2968            KM    Subbasin at NEC of Grand Canal & SR51.
2969            BA   0.177
2970            LG    0.54    0.23    4.80    0.35      16
2971            UC   0.629   0.384
2972            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2973            UA     100
                *
```



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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2974            KK    C52m COMBINE
2975            KM    Combine hydrographs 52m and C52kS.
2976            HC       2    6.01
                *

2977            KK   CC52m COMBINE
2978            KM    Combine hydrographs C52m and C48m.
2979            HC       2   12.24
                *

2980            KK    D52m  DIVERT
2981            KM    Divert 364 cfs into pipe.
2982            KM    Pipe flow along 52m to south
2983            DT   D52mP
2984            DI       0     100     364   10000
2985            DQ       0     100     364     364
                *

2986            KK   D52mW  DIVERT
2987            KM   Total split flow of 48m and 52m, 10% to west
2988            DT   D52mS
2989            DI       0     100    1000   10000
2990            DQ       0      90     900    9000
                *

2991            KK   R52mW   ROUTE
2992            KM    Route surface flow west from Subbasin 52m to Subbasin 54m.
2993            RS       2    FLOW      -1
2994            RC   0.050   0.016   0.050    2650  0.0066
2995            RX       0     0.3      12    29.4    30.6      48    59.7      60
2996            RY       3       1     0.5       0       0     0.5       1       3
                *

2997            KK     54m   BASIN
2998            KM    Subbasin at NEC of Thomas Rd. & 16th St.
2999            BA   0.271
3000            LG    0.56    0.25    4.80    0.37      31
3001            UC   0.652   0.385
3002            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3003            UA     100
                *

3004            KK  BD54kP RETRIEVE
```

```
3005          KM    Retrieve diverted pipe flow from D54kP.
3006          DR   D54kP
              *

3007          KK   P54kS   ROUTE
3008          KM    Route pipe flow from Grand Canal/16th St. to Thomas/16th St.
3009          RK    5000  0.0030   0.015            CIRC     5.0
              *
1                                        HEC-1 INPUT                                                    PAGE 84

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3010          KK  BD54kS RETRIEVE
3011          KM    Retrieve diverted surface flow from D54kS.
3012          DR   D54kS
              *

3013          KK   R54kS   ROUTE
3014          KM    Route surface flow south from Subbasin 54k to Subbasin 54m.
3015          RS       3    FLOW      -1
3016          RC   0.050   0.016   0.050    4500  0.0057
3017          RX       0     0.5      20      49      51      80    99.5     100
3018          RY       3       1     0.5       0       0     0.5       1       3
              *

3019          KK   C54kS COMBINE
3020          KM    Combine hydrographs R54kS and P54kS.
3021          HC       2    1.18
              *

3022          KK    C54m COMBINE
3023          KM    Combine hydrographs 54m, C54kS, and R52mW.
3024          HC       3    1.66
              *

3025          KK    D54m  DIVERT
3026          KM    Divert 124 cfs into pipe.
3027          DT   D54mP
3028          DI       0     100     124   10000
3029          DQ       0     100     124     124
              *

3030          KK   D54mW  DIVERT
3031          KM    Divert surface flow to south.
3032          DT   D54mS
3033          DI       0     100    1000   10000
3034          DQ       0      40     400    4000
              *

3035          KK   R54mW   ROUTE
3036          KM    Route surface flow west from Subbasin 54m to Subbasin 56m.
3037          RS       2    FLOW      -1
3038          RC   0.050   0.016   0.050    2640  0.0030
3039          RX       0    1.05      42   102.9   107.1     168  208.95     210
3040          RY       3       1     0.5       0       0     0.5       1       3
              *

3041          KK     56m   BASIN
3042          KM    Subbasin at NEC of Thomas Rd. & 12th St.
3043          BA   0.576
3044          LG    0.86    0.25    4.90    0.36      26
3045          UC   1.110   0.849
3046          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3047          UA     100
              *
1                                        HEC-1 INPUT                                                    PAGE 85

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3048          KK  BD56kP RETRIEVE
3049          KM    Retrieve diverted pipe flow from D56kP.
3050          DR   D56kP
              *

3051          KK   P56kS   ROUTE
3052          KM    Route pipe flow from Grand Canal/12th St. to Thomas/12th St.
3053          RK    7350  0.0030   0.015            CIRC     7.0
              *

3054          KK  BD56kS RETRIEVE
3055          KM    Retrieve diverted surface flow from D56kS.
3056          DR   D56kS
              *
```

```
3057          KK   R56kS   ROUTE
3058          KM    Route surface flow south from Subbasin 56k to Subbasin 56m.
3059          RS       5    FLOW      -1
3060          RC   0.050   0.016   0.050    6070  0.0033
3061          RX       0     0.5      20      49      51      80    99.5     100
3062          RY       3       1     0.5       0       0     0.5       1       3
              *

3063          KK   C56kS COMBINE
3064          KM    Combine hydrographs R56kS and P56kS.
3065          HC       2    4.46
              *

3066          KK    C56m COMBINE
3067          KM    Combine hydrographs 56m, C56kS, and R54mW.
3068          HC       3    5.50
              *

3069          KK    D56m  DIVERT
3070          KM    Divert 433 cfs into pipe.
3071          DT   D56mP
3072          DI       0     100     433   10000
3073          DQ       0     100     433     433
              *

3074          KK   D56mW  DIVERT
3075          KM    Divert surface flow to south.
3076          DT   D56mS
3077          DI       0     100    1000   10000
3078          DQ       0      39     389    3892
              *

3079          KK   R56mW   ROUTE
3080          KM    Route surface flow west from Subbasin 56m to Subbasin 60m.
3081          RS       3    FLOW      -1
3082          RC   0.050   0.016   0.050    2640  0.0023
3083          RX       0     1.8      72   176.4   183.6     288   358.2     360
3084          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3085          KK     60m   BASIN
3086          KM    Subbasin at NEC of Thomas Rd. & 7th St.
3087          BA   0.500
3088          LG    0.84    0.25    5.80    0.25      16
3089          UC   1.032   0.787
3090          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3091          UA     100
              *

3092          KK  BD601P RETRIEVE
3093          KM    Retrieve diverted pipe flow from D601P.
3094          DR   D601P
              *

3095          KK   P601S   ROUTE
3096          KM    Route pipe flow from Indian School/7th St. to Thomas/7th St.
3097          RK    5300  0.0030   0.015            CIRC    4.50
              *

3098          KK  BD601S RETRIEVE
3099          KM    Retrieve diverted surface flow from D601S.
3100          DR   D601S
              *

3101          KK   R601S   ROUTE
3102          KM    Route surface flow south from Subbasin 601 to Subbasin 60m.
3103          RS       5    FLOW      -1
3104          RC   0.050   0.016   0.050    5280  0.0038
3105          RX       0     1.3      52   127.4   132.6     208   258.7     260
3106          RY       3       1     0.5       0       0     0.5       1       3
              *

3107          KK   C601S COMBINE
3108          KM    Combine hydrographs R601S and P601S.
3109          HC       2    4.69
              *

3110          KK    C60m COMBINE
3111          KM    Combine hydrographs 60m, C601S, and R56mW.
3112          HC       3    6.24
              *
```

```
3113          KK    D60m  DIVERT
3114          KM    Divert 124 cfs into pipe.
3115          DT   D60mP
3116          DI       0     100     124   10000
3117          DQ       0     100     124     124
              *
1                                   HEC-1 INPUT                                                    PAGE 87

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3118          KK   D60mW  DIVERT
3119          KM    Divert surface flow to south.
3120          DT   D60mS
3121          DI       0     100    1000   10000
3122          DQ       0      52     520    5199
              *

3123          KK   R60mW   ROUTE
3124          KM    Route surface flow west from Subbasin 60m to Subbasin 64m.
3125          RS       4    FLOW      -1
3126          RC   0.050   0.016   0.050    2640  0.0008
3127          RX       0    1.55      62   151.9   158.1     248  308.45     310
3128          RY       3       1     0.5       0       0     0.5       1       3
              *

3129          KK     64m   BASIN
3130          KM    Subbasin at NEC of Thomas Rd. & Central Ave.
3131          BA   0.500
3132          LG    0.29    0.15    8.40    0.09      49
3133          UC   0.949   0.717
3134          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3135          UA     100
              *

3136          KK  BD641P RETRIEVE
3137          KM    Retrieve diverted pipe flow from D641P.
3138          DR   D641P
              *

3139          KK   P641S   ROUTE
3140          KM    Route pipe flow from Indian School/Central Ave. to Thomas/Central Ave.
3141          RK    5280  0.0030   0.015            CIRC    7.00
              *

3142          KK  BD641S RETRIEVE
3143          KM    Retrieve diverted surface flow from D641S.
3144          DR   D641S
              *

3145          KK   R641S   ROUTE
3146          KM    Route surface flow south from Subbasin 641 to Subbasin 64m.
3147          RS       8    FLOW      -1
3148          RC   0.050   0.016   0.050    5280  0.0030
3149          RX       0    1.25      50   122.5   127.5     200  248.75     250
3150          RY       3       1     0.5       0       0     0.5       1       3
              *

3151          KK   C641S COMBINE
3152          KM    Combine hydrographs R641S and P641S.
3153          HC       2    6.96
              *
1                                   HEC-1 INPUT                                                    PAGE 88

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3154          KK     68m   BASIN
3155          KM    Subbasin at NEC of Thomas Rd. & 7th Ave.
3156          BA   0.550
3157          LG    0.14    0.15    8.80    0.08      57
3158          UC   0.959   0.698
3159          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3160          UA     100
              *

3161          KK  D68mP2  DIVERT
3162          KM    Divert flow into pipe.
3163          KM    pipe flow to east = 34 cfs
3164          DT    D68m
3165          DI       0      34     100    1000   10000
3166          DQ       0       0      66     966    9966
              *

3167          KK    C64m.COMBINE
3168          KM    Combine hydrographs 64m, C641S, D68mP2, and R60mW.
```

```
3169          HC       4    9.55
              *

3170          KK    D64m  DIVERT
3171          KM    Divert 399 cfs into pipe.
3172          DT   D64mP
3173          DI       0     100     399   10000
3174          DQ       0     100     399     399
              *

3175          KK   D64mW  DIVERT
3176          KM    Divert surface flow to south.
3177          DT   D64mS
3178          DI       0     100    1000   10000
3179          DQ       0      62     618    6176
              *

3180          KK   R64mW   ROUTE
3181          KM    Route surface flow west from Subbasin 64m to Subbasin 68m.
3182          RS       5    FLOW      -1
3183          RC   0.050   0.016   0.050    2640  0.0010
3184          RX       0     1.3      52   127.4   132.6     208   258.7     260
3185          RY       3       1     0.5       0       0     0.5       1       3
              *

3186          KK   BD68m RETRIEVE
3187          KM    Retrieve diverted surface flow from D68m.
3188          DR    D68m
              *
1                                        HEC-1 INPUT                                                    PAGE 89

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3189          KK    C68m COMBINE
3190          KM    Combine hydrographs C681S, D68m, and R64mW.
3191          HC       3   16.15
              *

3192          KK   D68m2  DIVERT
3193          KM    Divert 144 cfs into pipe.
3194          DT   D68mP
3195          DI       0     100     144   10000
3196          DQ       0     100     144     144
              *

3197          KK   D68mW  DIVERT
3198          KM    Divert surface flow to south.
3199          DT   D68mS
3200          DI       0     100    1000   10000
3201          DQ       0      83     830    8300
              *

3202          KK   R68mW   ROUTE
3203          KM    Route surface flow west from Subbasin 68m to Subbasin 72m.
3204          RS       5    FLOW      -1
3205          RC   0.050   0.016   0.050    2640  0.0008
3206          RX       0    1.05      42   102.9   107.1     168  208.95     210
3207          RY       3       1     0.5       0       0     0.5       1       3
              *

3208          KK   CC72m COMBINE
3209          KM    Combine hydrographs C72m and R68mW.
3210          HC       2   17.12
              *

3211          KK    D72m  DIVERT
3212          KM    Divert 308 cfs into pipe.
3213          DT   D72mP
3214          DI       0     100     308   10000
3215          DQ       0     100     308     308
              *

3216          KK   R72mS   ROUTE
3217          KM    Route surface flow south from Subbasin 72m to Subbasin 72o.
3218          RS       6    FLOW      -1
3219          RC   0.050   0.016   0.050    6900  0.0020
3220          RX       0    1.25      50   122.5   127.5     200  248.75     250
3221          RY       3       1     0.5       0       0     0.5       1       3
              *

3222          KK  BD72mP RETRIEVE
3223          KM    Retrieve diverted pipe flow from D72mP.
3224          DR   D72mP
              *
1                                        HEC-1 INPUT                                                    PAGE 90
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3225          KK   P72mS   ROUTE
3226          KM    Route pipe flow from Thomas/15th Ave. to I-10/15th Ave.
3227          RK    6900  0.0030   0.015            CIRC     7.0
              *

3228          KK   C72mS COMBINE
3229          KM    Combine hydrographs R72mS and P72mS.
3230          HC       2   17.12
              *

3231          KK  BD24oS RETRIEVE
3232          KM    Retrieve diverted surface flow from D24oS.
3233          DR   D24oS
              *

3234          KK   R24oS   ROUTE
3235          KM    Route surface flow south from Subbasin 24o to Subbasin 28p.
3236          RS       3    FLOW      -1
3237          RC   0.050   0.016   0.050    3500  0.0081
3238          RX       0       1      40      98     102     160     199     200
3239          RY       3       1     0.5       0       0     0.5       1       3
              *

3240          KK  BD28oP RETRIEVE
3241          KM    Retrieve diverted pipe flow from D28oP.
3242          DR   D28oP
              *

3243          KK   P28oS   ROUTE
3244          KM    Route pipe flow from McDowell/40th St. to Loop 202/40th St.
3245          RK    2500  0.0044   0.015            CIRC    7.00
              *

3246          KK  BD28oS RETRIEVE
3247          KM    Retrieve diverted surface flow from D28oS.
3248          DR   D28oS
              *

3249          KK   R28oS   ROUTE
3250          KM    Route surface flow south from Subbasin 28o to Subbasin 28p.
3251          RS       2    FLOW      -1
3252          RC   0.050   0.016   0.050    2800  0.0112
3253          RX       0    1.25      50   122.5   127.5     200  248.75     250
3254          RY       3       1     0.5       0       0     0.5       1       3
              *

3255          KK   C28oS COMBINE
3256          KM    Combine hydrographs R28oS and P28oS.
3257          HC       2    2.73
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3258          KK    C28p COMBINE
3259          KM    Combine hydrographs C28oS and R24oS.
3260          HC       2    2.73
              *

3261          KK     28p   BASIN
3262          KM    Subbasin at NEC of Loop 202 & 40th St.
3263          BA   0.372
3264          LG    1.02    0.25    4.80    0.36      26
3265          UC   0.793   0.566
3266          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3267          UA     100
              *

3268          KK    S28p STORAGE
3269          KM    Online Local Retention Basin, 0.8 ac-ft.
3270          RS       1    STOR       0
3271          SV       0     0.2     0.8     1.5
3272          SE       0       2       4       6
3273          SS       4     100     2.7     1.5
              *

3274          KK   CC28p COMBINE
3275          KM    Combine hydrographs C28p and S28p.
3276          HC       2    3.11
              *
```

```
3277          KK    D28p  DIVERT
3278          KM    Divert flow into pipe.
3279          KM    Total pipe flow = 279 cfs (201 cfs to south, 68 cfs to east)
3280          DT   D28pP
3281          DI       0     100     279   10000
3282          DQ       0     100     279     279
              *

3283          KK   R28pW   ROUTE
3284          KM    Route surface flow west from Subbasin 28p to Subbasin 32p.
3285          RS       3    FLOW      -1
3286          RC   0.050   0.016   0.050    2640  0.0030
3287          RX       0     0.8      32    78.4    81.6     128   159.2     160
3288          RY       3       1     0.5       0       0     0.5       1       3
              *

3289          KK     32p   BASIN
3290          KM    Subbasin at NEC of Loop 202 & 36th St.
3291          BA   0.234
3292          LG    0.28    0.25    4.80    0.33       3
3293          UC   0.912   0.728
3294          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3295          UA     100
              *
```

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```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3296          KK  BD32oS RETRIEVE
3297          KM    Retrieve diverted surface flow from D32oS.
3298          DR   D32oS
              *

3299          KK   R32oS   ROUTE
3300          KM    Route surface flow south from Subbasin 32o to Subbasin 32p.
3301          RS       2    FLOW      -1
3302          RC   0.050   0.016   0.050    2540  0.0071
3303          RX       0     0.5      20      49      51      80    99.5     100
3304          RY       3       1     0.5       0       0     0.5       1       3
              *

3305          KK    C32p COMBINE
3306          KM    Combine hydrographs 32p and R32oS.
3307          HC       2    4.49
              *

3308          KK    S32p STORAGE
3309          KM    Online Regional Detention Basin, 57 ac-ft.
3310          RS       1    STOR       0
3311          SV       0     3.5    13.8    32.9    57.4    83.7
3312          SE       0       2       4       6       8      10
3313          SL       2   12.56    0.62     0.5
3314          SS       8      20     2.7     1.5
              *

3315          KK  BD32oP RETRIEVE
3316          KM    Retrieve diverted pipe flow from D32oP.
3317          DR   D32oP
              *

3318          KK   P32oS   ROUTE
3319          KM    Route pipe flow from McDowell/36th St. to SR202L/36th ST.
3320          RK    2500  0.0060   0.015            CIRC     6.0
              *

3321          KK   CC32p COMBINE
3322          KM    Combine hydrographs P32oS, R28pW and S32p.
3323          HC       3    4.86
              *

3324          KK   D32pW  DIVERT
3325          KM    Divert flow to pipe.
3326          DT   D32pS
3327          DI       0     100    1000   10000
3328          DQ       0      10     150     600
              *
```

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```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3329          KK    D32p  DIVERT
3330          KM    Divert 379 cfs into pipe.
3331          DT   D32pP
3332          DI       0     100     379    1000   10000
```

```
3333          DQ       0     100     379     379     379
              *

3334          KK   R32pW   ROUTE
3335          KM    Route surface flow west from Subbasin 32p to Subbasin 36p.
3336          RS       3    FLOW      -1
3337          RC   0.050   0.016   0.050    2700  0.0022
3338          RX       0     0.5      20      49      51      80    99.5     100
3339          RY       3       1     0.5       0       0     0.5       1       3
              *

3340          KK  BD32pP RETRIEVE
3341          KM    Retrieve diverted pipe flow from D32pP.
3342          DR   D32pP
              *

3343          KK   P32pW   ROUTE
3344          KM    Route pipe flow from Loop 202/36th St. to Loop 202/32nd St.
3345          RK    2750  0.0047   0.015            CIRC     7.0
              *

3346          KK   C32pW COMBINE
3347          KM    Combine hydrographs R32pW and P32pW.
3348          HC       2    4.86
              *

3349          KK     28q   BASIN
3350          KM    Subbasin at NEC of Grand Canal & 40th St.
3351          BA   0.318
3352          LG    0.35    0.25    4.80    0.39      42
3353          UC   0.651   0.395
3354          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3355          UA     100
              *

3356          KK    S28q STORAGE
3357          KM    Online Local Retention Basin, 0.3 ac-ft.
3358          RS       1    STOR       0
3359          SV       0     0.3     0.8
3360          SE       0       2       4
3361          SS       2     100     2.7     1.5
              *

3362          KK  BD28pP RETRIEVE
3363          KM    Retrieve diverted pipe flow from D28pP.
3364          DR   D28pP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3365          KK  D28pP1  DIVERT
3366          KM    Divert flow into pipe.
3367          DT  D28pP2
3368          DI       0     279     300
3369          DQ       0      68      75
              *

3370          KK   P28pS   ROUTE
3371          KM    Route pipe flow from Loop 202/40th St. to Grand Canal/40th St.
3372          RK    2700  0.0030   0.015            CIRC    6.00
              *

3373          KK    C28q COMBINE
3374          KM    Combine hydrographs P28pS and S28q.
3375          HC       2    0.82
              *

3376          KK    D28q  DIVERT
3377          KM    Divert flow into pipe.
3378          KM    Total pipe flow = 340 cfs (32 cfs to east,308 cfs to south)
3379          DT   D28qP
3380          DI       0     100     340   10000
3381          DQ       0     100     340     340
              *

3382          KK   D28qW  DIVERT
3383          KM    Divert surface flow to south.
3384          DT   D28qS
3385          DI       0      14      72     203     550    1348
3386          DQ       0       0      41     144     430    1103
              *

3387          KK   R28qW   ROUTE
3388          KM    Route surface flow west from Subbasin 28q to Subbasin 32q.
```

```
3389          RS       9    FLOW      -1
3390          RC   0.050   0.016   0.050    3500  0.0003
3391          RX       0    0.75      30    73.5    76.5     120  149.25     150
3392          RY       3       1     0.5       0       0     0.5       1       3
              *

3393          KK     32q   BASIN
3394          KM    Subbasin at NEC of Grand Canal & 36th St.
3395          BA   0.175
3396          LG    0.25    0.21    4.80    0.32       6
3397          UC   0.809   0.621
3398          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3399          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3400          KK  BD32pS RETRIEVE
3401          KM    Retrieve diverted surface flow from D32pS.
3402          DR   D32pS
              *

3403          KK    C32q COMBINE
3404          KM    Combine hydrographs 32q, D32pS, and R28qW.
3405          HC       3    0.99
              *

3406          KK    S32q STORAGE
3407          KM    Online Regional Detention Basin, 92 ac-ft.
3408          RS       1    STOR       0
3409          SV       0      10      24      41      59      80      92     110
3410          SE       0       4       8      12      16      20      22      24
3411          SL     1.5   7.068    0.62     0.5
3412          SS      22     750     2.7     1.5
              *

3413          KK   D32qP  DIVERT
3414          KM    Divert surface flow to southwest.
3415          KM    Basin bleed-off pipe flow = 32 cfs
3416          DT    D32q
3417          DI       0      32     100    1000   10000
3418          DQ       0       0      68     968    9968
              *

3419          KK   P32qW   ROUTE
3420          KM    Route pipe flow from Subbasin 32q to Detention Basin in 36p.
3421          RK     800  0.0031   0.015            CIRC     3.0
              *

3422          KK  C32pqW COMBINE
3423          KM    Combine hydrographs C32pW and P32qW.
3424          HC       2    4.86
              *

3425          KK     36p   BASIN
3426          KM    Subbasin at NEC of Grand Canal and Loop 202
3427          BA   0.186
3428          LG    0.72    0.22    4.80    0.36      23
3429          UC   0.704   0.492
3430          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3431          UA     100
              *

3432          KK  BD36oS RETRIEVE
3433          KM    Retrieve diverted surface flow from D36oS.
3434          DR   D36oS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3435          KK   R36oS   ROUTE
3436          KM    Route surface flow south from Subbasin 36o to 36p.
3437          RS       3    FLOW      -1
3438          RC   0.050   0.016   0.050    2500  0.0063
3439          RX       0    0.75      30    73.5    76.5     120  149.25     150
3440          RY       3       1     0.5       0       0     0.5       1       3
              *

3441          KK    C36p COMBINE
3442          KM    Combine hydrographs 36p, C32pqW, and R36oS.
3443          HC       3    6.91
              *
```

```
3444          KK    E36p  DIVERT
3445          KM    Divert flow into detention basin 40p and 36q, (Bypass 613 cfs pipe flow).
3446          DT   DB36p
3447          DI       0      100      613     1000   10000
3448          DQ       0        0        0      387    9387
              *

3449          KK  BDB36pRETRIEVE
3450          KM   Retrieve diverted flow from DB36p for offline detention.
3451          DR   DB36p
              *

3452          KK    S36p STORAGE
3453          KM    Offline Detention basins within 40p and 36q receive flows from subbasin
3454          KM    36p. They are treated as one detention basin, 68 ac-ft.
3455          RS       1    STOR        0
3456          SV       0      10       22       37       55       68       84
3457          SE       0       4        8       12       16       18       20
3458          SL       2   12.56     0.62      0.5
3459          SS      18     200      2.7      1.5
              *

3460          KK  BD36oP RETRIEVE
3461          KM    Retrieve diverted pipe flow from D36oP.
3462          DR   D36oP
              *

3463          KK   P36oS   ROUTE
3464          KM    Route pipe flow from 32nd st/McDowell to subbasin 36p.
3465          RK     900  0.0038   0.015            CIRC    5.00
              *

3466          KK   CC36p COMBINE
3467          KM    Combine hydrographs E36p, P36oS, and S36p.
3468          HC       3    6.91
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3469          KK    D36p  DIVERT
3470          KM    Divert 613 cfs into pipe (139 cfs to south, 474 cfs to west).
3471          DT   D36pP
3472          DI       0      100      613     1000   10000
3473          DQ       0      100      613      613     613
              *

3474          KK   R36pW   ROUTE
3475          KM    Route surface flow west from Subbasin 36p to 40p.
3476          RS       2    FLOW       -1
3477          RC   0.050   0.016    0.050     2640  0.0024
3478          RX       0    0.75       30     73.5    76.5     120  149.25     150
3479          RY       3       1      0.5        0       0     0.5       1       3
              *

3480          KK  BD36pP RETRIEVE
3481          KM    Retrieve diverted pipe flow from D36pP.
3482          DR   D36pP
              *

3483          KK  D36pP1  DIVERT
3484          KM    Divert flow into pipe (south).
3485          DT  D36pP2
3486          DI       0      613      620
3487          DQ       0      139      140
              *

3488          KK   P36pW   ROUTE
3489          KM    Route pipe flow from offline detention basin to subbasin 40p.
3490          RK    2700  0.0036   0.015            CIRC     8.0
              *

3491          KK   C36pW COMBINE
3492          KM    Combine hydrographs R36pW and P36pW.
3493          HC       2    6.91
              *

3494          KK     40p   BASIN
3495          KM    Subbasin at NEC of Loop 202 and 28th St
3496          BA   0.222
3497          LG    1.05     0.13     7.00     0.14       22
3498          UC   0.745    0.489
3499          UA       0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
3500          UA     100
```

```
                *
3501            KK  BD40oP RETRIEVE
3502            KM   Retrieve diverted pipe flow from D40oP.
3503            DR   D40oP
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3504            KK   P40oS   ROUTE
3505            KM    Route pipe flow from 28th st/Grand Canal to subbasin 40p.
3506            RK    2800  0.0041   0.015            CIRC    5.00
                *

3507            KK  BD40oS RETRIEVE
3508            KM    Retrieve diverted surface flow from D40oS.
3509            DR   D40oS
                *

3510            KK   R40oS   ROUTE
3511            KM    Route surface flow south from Subbasin 40o to 40p.
3512            RS       3    FLOW      -1
3513            RC   0.050   0.016   0.050    2500  0.0072
3514            RX       0     1.3      52   127.4   132.6     208   258.7     260
3515            RY       3       1     0.5       0       0     0.5       1       3
                *

3516            KK   C40oS COMBINE
3517            KM    Combine hydrographs R40oS and P40oS.
3518            HC       2    7.82
                *

3519            KK    C40p COMBINE
3520            KM    Combine hydrographs 40p and C40oS.
3521            HC       3    8.83
                *

3522            KK    D40p  DIVERT
3523            KM    Divert 785 cfs to 9'x9' box (west).
3524            DT   D40pP
3525            DI       0     100     785   10000
3526            DQ       0     100     785     785
                *

3527            KK   R40pW   ROUTE
3528            KM    Route surface flow west from Subbasin 40p to 44p.
3529            RS       4    FLOW      -1
3530            RC   0.050   0.016   0.050    2640  0.0023
3531            RX       0       1      40      98     102     160     199     200
3532            RY       3       1     0.5       0       0     0.5       1       3
                *

3533            KK  BD40pP RETRIEVE
3534            KM    Retrieve diverted pipe flow from D40pP.
3535            DR   D40pP
                *

3536            KK   P40pW   ROUTE
3537            KM    Route pipe flow from 28th st/I-10 to subbasin 44p.
3538            KM    9'x9' box equals to D =10' pipe
3539            RK    2640  0.0030   0.015            CIRC    10.0
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3540            KK   C40pW COMBINE
3541            KM    Combine hydrographs R40oW and P40pW.
3542            HC       2    8.83
                *

3543            KK     44p   BASIN
3544            KM    NEC corner of Loop 202 and 24th St
3545            BA   0.407
3546            LG    0.56    0.15    7.00    0.14      25
3547            UC   0.935   0.707
3548            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3549            UA     100
                *

3550            KK  BD44oP RETRIEVE
3551            KM    Retrieve diverted pipe flow from D44oP.
3552            DR   D44oP
```

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                *

3553            KK   P44oS   ROUTE
3554            KM    Route pipe flow from 24th st/Grand Canal to subbasin 44p.
3555            RK    5650  0.0030   0.015            CIRC    5.00
                *

3556            KK  BD44oS RETRIEVE
3557            KM    Retrieve diverted surface flow from D44oS.
3558            DR   D44oS
                *

3559            KK   R44oS   ROUTE
3560            KM    Route surface flow south from Subbasin 44o to 44p.
3561            RS       3    FLOW      -1
3562            RC   0.050   0.016   0.050    4230  0.0033
3563            RX       0       1      40      98     102     160     199     200
3564            RY       3       1     0.5       0       0     0.5       1       3
                *

3565            KK   C44oS COMBINE
3566            KM    Combine hydrographs R44oS and P44oS.
3567            HC       2    9.68
                *

3568            KK    C44p COMBINE
3569            KM    Combine hydrographs C44oS, C40pW, and 44p.
3570            HC       3   11.10
                *

3571            KK    D44p  DIVERT
3572            KM    Divert 1344 cfs into pipe (124 cfs to south, 1220 cfs to west).
3573            DT   D44pP
3574            DI       0     100    1344   10000
3575            DQ       0     100    1344    1344
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3576            KK   R44pW   ROUTE
3577            KM    Route surface flow west from Subbasin 44p to 48o.
3578            RS       3    FLOW      -1
3579            RC   0.050   0.016   0.050    2640  0.0015
3580            RX       0     0.8      32    78.4    81.6     128   159.2     160
3581            RY       3       1     0.5       0       0     0.5       1       3
                *

3582            KK  BD44pP RETRIEVE
3583            KM    Retrieve diverted pipe flow from D44pP.
3584            DR   D44pP
                *

3585            KK  D44pP1  DIVERT
3586            KM    Divert flow into pipe (south).
3587            DT  D44pP2
3588            DI       0    1344    1500
3589            DQ       0     124     138
                *

3590            KK   P44pW   ROUTE
3591            KM    Route pipe flow from 24th st/McDowell to subbasin 48o.
3592            KM    11'x10' box approximately equals to 12' pipe
3593            RK    2100  0.0030   0.015            CIRC    12.0
                *

3594            KK   C44pW COMBINE
3595            KM    Combine hydrographs R44pW and P44pW.
3596            HC       2   11.10
                *

3597            KK     48o   BASIN
3598            KM    Subbasin at NEC of Loop 202 and SR51
3599            BA   0.676
3600            LG    0.74    0.17    6.80    0.16      23
3601            UC   0.956   0.583
3602            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3603            UA     100
                *

3604            KK  BD52mS RETRIEVE
3605            KM    Retrieve diverted surface flow from D52mS.
3606            DR   D52mS
                *
```

```
3607          KK   R52mS   ROUTE
3608          KM    Route surface flow south from Subbasin 52m to 48o.
3609          RS       3    FLOW      -1
3610          RC   0.050   0.016   0.050    7000  0.0026
3611          RX       0     0.5      20      49      51      80    99.5     100
3612          RY       3       1     0.5       0       0     0.5       1       3
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3613          KK  BD52mP RETRIEVE
3614          KM    Retrieve diverted pipe flow from D52mP.
3615          DR   D52mP
              *

3616          KK   P52mS   ROUTE
3617          KM    Route pipe flow from subbasin 52m to subbasin 48o.
3618          RK    8600  0.0030   0.015            CIRC    7.50
              *

3619          KK   C52mS COMBINE
3620          KM    Combine hydrographs R52mS and P52mS.
3621          HC       2   12.24
              *

3622          KK    C48o COMBINE
3623          KM    Combine hydrographs C52mS, C44pW, and 48o.
3624          HC       3   14.34
              *

3625          KK    E48o  DIVERT
3626          KM    Divert 2573 cfs into ADOT East Tunnel 21' pipe at Moreland St.
3627          DT   DB48o
3628          DI       0     100    1000    2573   10000
3629          DQ       0       0       0       0    7427
              *

3630          KK  BDB48o RETRIEVE
3631          KM    Retrieve diverted flow from DB48o for detention.
3632          DR   DB48o
              *

3633          KK    S48o STORAGE
3634          KM    Excess flood water at ADOT East Tunnel going west
3635          KM    through McDowell Rd after ponding, online detention basin 35 ac-ft.
3636          RS       1    STOR       0
3637          SV       0       6      35      81
3638          SE       0       2       4       6
3639          SL     0.5    7.07    0.62     0.5
3640          SS       4     100     2.7     1.5
              *

3641          KK   CC48o COMBINE
3642          KM    Combine hydrographs E48o and S48o.
3643          HC       2   14.34
              *

3644          KK    D48o  DIVERT
3645          KM    Divert 2573 cfs into ADOT East tunnel 21' pipe at Moreland St.
3646          DT  D48oPT
3647          DI       0     100    2573    5000   10000
3648          DQ       0     100    2573    2573    2573
              *
1                                          HEC-1 INPUT                                                          PAGE102

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3649          KK   R48oW   ROUTE
3650          KM    Route surface flow west from Subbasin 48o to 52o.
3651          KM    Excess flow routing to west through McDowell Rd.
3652          RS       3    FLOW      -1
3653          RC   0.050   0.016   0.050    2640  0.0015
3654          RX       0     0.5      20      49      51      80    99.5     100
3655          RY       3       1     0.5       0       0     0.5       1       3
              *

3656          KK     52o   BASIN
3657          KM    Subbasin at NEC of I-10 and 16th St
3658          BA   0.645
3659          LG    0.42    0.25    5.80    0.23      28
3660          UC   0.995   0.702
3661          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3662          UA     100
```

```
                *

3663            KK  BD54mP RETRIEVE
3664            KM   Retrieve diverted pipe flow from D54mP.
3665            DR  D54mP
                *

3666            KK   P54mS   ROUTE
3667            KM   Route pipe flow from 16th st/Thomas to subbasin 52o.
3668            RK   6350  0.0030   0.015            CIRC    5.00
                *

3669            KK  BD54mS RETRIEVE
3670            KM   Retrieve diverted surface flow from D54mS.
3671            DR  D54mS
                *

3672            KK   R54mS   ROUTE
3673            KM   Route surface flow south from Subbasin 54m to 52o.
3674            RS      6    FLOW      -1
3675            RC  0.050   0.016   0.050    6845  0.0029
3676            RX      0     0.5      20      49      51      80    99.5     100
3677            RY      3       1     0.5       0       0     0.5       1       3
                *

3678            KK   C54mS COMBINE
3679            KM   Combine hydrographs R54mS and P54mS.
3680            HC      2    1.66
                *

3681            KK   C52o COMBINE
3682            KM   Combine hydrographs C54mS, R48oW, and 52o.
3683            HC      3    2.30
                *
1                                        HEC-1 INPUT                                                    PAGE103

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3684            KK   D52o  DIVERT
3685            KM   Divert 517 cfs into pipe to West Tunnel.
3686            KM   72" SD at 19th St and 72" SD at 16th St, Q = 211+306 = 517 cfs
3687            DT  D52oP
3688            DI      0     100     517   10000
3689            DQ      0     100     517     517
                *

3690            KK   R52oW   ROUTE
3691            KM   Route surface flow west from Subbasin 52o to 56o.
3692            RS      6    FLOW      -1
3693            RC  0.050   0.016   0.050    2640  0.0015
3694            RX      0     1.6      64   156.8   163.2     256   318.4     320
3695            RY      3       1     0.5       0       0     0.5       1       3
                *

3696            KK  BD52oP RETRIEVE
3697            KM   Retrieve diverted pipe flow from D52oP.
3698            DR  D52oP
                *

3699            KK   P52oW   ROUTE
3700            KM   Route pipe flow from 16th st/McDowell to subbasin 56o.
3701            RK   2700  0.0031   0.015            CIRC     7.5
                *

3702            KK   C52oW COMBINE
3703            KM   Combine hydrographs R52oW and P52oW.
3704            HC      2    2.30
                *

3705            KK    56o   BASIN
3706            KM   Subbasin at NEC of I-10 and 12th St
3707            BA  0.638
3708            LG   0.29    0.25    5.00    0.33      24
3709            UC  1.075   0.781
3710            UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3711            UA    100
                *

3712            KK  BD56mP RETRIEVE
3713            KM   Retrieve diverted pipe flow from D56mP.
3714            DR  D56mP
                *

3715            KK   P56mS   ROUTE
3716            KM   Route pipe flow from 12th st/Thomas to subbasin 56o.
```

```
3717          RK    6450  0.0030   0.015            CIRC    8.00
              *
1                                        HEC-1 INPUT                                                    PAGE104

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3718          KK  BD56mS RETRIEVE
3719          KM    Retrieve diverted surface flow from D56mS.
3720          DR   D56mS
              *

3721          KK   R56mS   ROUTE
3722          KM    Route surface flow south from Subbasin 56m to 56o.
3723          RS       7   FLOW      -1
3724          RC   0.050   0.016   0.050    6770  0.0024
3725          RX       0     1.1      44   107.8   112.2     176   218.9     220
3726          RY       3       1     0.5       0       0     0.5       1       3
              *

3727          KK   C56mS COMBINE
3728          KM    Combine hydrographs R56mS and P56mS.
3729          HC       2    5.50
              *

3730          KK    C56o COMBINE
3731          KM    Combine hydrographs C56mS, C52oW, and 56o.
3732          HC       3    6.79
              *

3733          KK    D56o  DIVERT
3734          KM    Divert flow into West Tunnel (517 cfs from U/S).
3735          KM    10'x6' RCB at 12th St. Q = 433+517 = 950 cfs.
3736          DT   D56oP
3737          DI       0     100    1000   10000
3738          DQ       0     100     950     950
              *

3739          KK   R56oW   ROUTE
3740          KM    Route surface flow west from Subbasin 56o to 60o.
3741          RS       3    FLOW      -1
3742          RC   0.050   0.016   0.050    2640  0.0023
3743          RX       0     1.3      52   127.4   132.6     208   258.7     260
3744          RY       3       1     0.5       0       0     0.5       1       3
              *

3745          KK  BD56oP RETRIEVE
3746          KM    Retrieve diverted pipe flow from D56oP.
3747          DR   D56oP
              *

3748          KK   P56oW   ROUTE
3749          KM    Route pipe flow from 12th st/McDowell to subbasin 60o.
3750          KM    10'x10' box approximately equals to 11.5' pipe
3751          RK    2700  0.0030   0.015            CIRC    11.5
              *
1                                        HEC-1 INPUT                                                    PAGE105

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3752          KK   C56oW COMBINE
3753          KM    Combine hydrographs R56oW and P56oW.
3754          HC       2    6.79
              *

3755          KK     60o   BASIN
3756          KM    Subbasin at NEC of I-10 and 7th St
3757          BA   0.640
3758          LG    1.22    0.25    5.30    0.31      32
3759          UC   1.146   0.841
3760          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3761          UA     100
              *

3762          KK  BD60mP RETRIEVE
3763          KM    Retrieve diverted pipe flow from D60mP.
3764          DR   D60mP
              *

3765          KK   P60mS   ROUTE
3766          KM    Route pipe flow from 7th st/Thomas to subbasin 60o.
3767          RK    6200  0.0030   0.015            CIRC    5.00
              *

3768          KK  BD60mS RETRIEVE
```

```
3769          KM    Retrieve diverted surface flow from D60mS.
3770          DR   D60mS
              *

3771          KK   R60mS   ROUTE
3772          KM    Route surface flow south from Subbasin 60m to 60o.
3773          RS       6    FLOW      -1
3774          RC   0.050   0.016   0.050    6720  0.0024
3775          RX       0     1.3      52   127.4   132.6     208   258.7     260
3776          RY       3       1     0.5       0       0     0.5       1       3
              *

3777          KK   C60mS COMBINE
3778          KM    Combine hydrographs R60mS and P60mS.
3779          HC       2    6.24
              *

3780          KK    C60o COMBINE
3781          KM    Combine hydrographs C60mS, C56oW, and 60o.
3782          HC       3    8.16
              *

3783          KK    D60o  DIVERT
3784          KM    Divert flow into West ADOT Tunnel (950 cfs U/S).
3785          KM    84" at 7th St and 60" at 10th St, Q = 435+376 = 811+950= 1761 cfs.
3786          DT  D60oPT
3787          DI       0     100    1761   10000
3788          DQ       0     100    1761    1761
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3789          KK   R60oW   ROUTE
3790          KM    Route surface flow west from Subbasin 60o to 64o.
3791          RS       6    FLOW      -1
3792          RC   0.050   0.016   0.050    2640  0.0015
3793          RX       0    1.05      42   102.9   107.1     168  208.95     210
3794          RY       3       1     0.5       0       0     0.5       1       3
              *

3795          KK     64o   BASIN
3796          KM    Subbasin at NEC of I-10 and Central
3797          BA   0.651
3798          LG    1.21    0.25    5.80    0.25      44
3799          UC   1.201   0.848
3800          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3801          UA     100
              *

3802          KK    S64o STORAGE
3803          KM    Online Detention Basin 1 ac-ft.
3804          RS       1    STOR       0
3805          SV       0    0.25       1       3
3806          SE       0       2       4       6
3807          SQ       0       8      11     600
              *

3808          KK  BD64mP RETRIEVE
3809          KM    Retrieve diverted pipe flow from D64mP.
3810          DR   D64mP
              *

3811          KK   P64mS   ROUTE
3812          KM    Route pipe flow from Central/Thomas to subbasin 64o.
3813          RK    6450  0.0025   0.015             CIRC    8.00
              *

3814          KK  BD64mS RETRIEVE
3815          KM    Retrieve diverted surface flow from D64mS.
3816          DR   D64mS
              *

3817          KK   R64mS   ROUTE
3818          KM    Route surface flow south from Subbasin 64m to 64o.
3819          RS       8    FLOW      -1
3820          RC   0.050   0.016   0.050    6860  0.0020
3821          RX       0    1.05      42   102.9   107.1     168  208.95     210
3822          RY       3       1     0.5       0       0     0.5       1       3
              *

3823          KK   C64mS COMBINE
3824          KM    Combine hydrographs R64mS and P64mS.
3825          HC       2    9.55
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3826          KK    C64o COMBINE
3827          KM    Combine flows of C64mS, S64o,and R60oW
3828          HC       3   12.13
              *

3829          KK    D64o  DIVERT
3830          KM    Divert flow to ADOT West Tunnel (south).
3831          KM    96" SD at Central and 8'x7' RCB at 3rd Ave. Q =535+500=1035 cfs.
3832          DT  D64oPT
3833          DI       0     100    1035    2000   10000
3834          DQ       0     100    1035    1035    1035
              *

3835          KK   R64oW   ROUTE
3836          KM    Route surface flow west from Subbasin 64o to 68o.
3837          RS       2    FLOW      -1
3838          RC   0.050   0.016   0.050    2640  0.0015
3839          RX       0    1.05      42   102.9   107.1     168  208.95     210
3840          RY       3       1     0.5       0       0     0.5       1       3
              *

3841          KK     68o   BASIN
3842          KM    Subbasin at NEC of I-10 & 7th Ave.
3843          BA   0.688
3844          LG    0.21    0.17    6.80    0.16      25
3845          UC   1.101   0.746
3846          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3847          UA     100
              *

3848          KK    S68o STORAGE
3849          KM    Online Local Retention Basin, 13 ac-ft.
3850          RS       1    STOR       0
3851          SV       0       4      13      25
3852          SE       0       2       4       6
3853          SS       4     100     2.7     1.5
              *

3854          KK  BD68mP RETRIEVE
3855          KM    Retrieve diverted pipe flow from D68mP.
3856          DR   D68mP
              *

3857          KK   P68mS   ROUTE
3858          KM    Route pipe flow from Thomas/7th Ave. to I-10/7th Ave.
3859          RK    6800   0.002   0.015            CIRC     4.0
              *

3860          KK  BD68mS RETRIEVE
3861          KM    Retrieve diverted surface flow from D68mS.
3862          DR   D68mS
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3863          KK   R68mS   ROUTE
3864          KM    Route surface flow south from Subbasin 68m to Subbasin 68o.
3865          RS       7    FLOW      -1
3866          RC   0.050   0.016   0.050    6780  0.0021
3867          RX       0     1.3      52   127.4   132.6     208   258.7     260
3868          RY       3       1     0.5       0       0     0.5       1       3
              *

3869          KK   C68mS COMBINE
3870          KM    Combine hydrographs R68mS and P68mS.
3871          HC       2   16.15
              *

3872          KK    C68o COMBINE
3873          KM    Combine hydrographs S68o, C68mS, and R64oW.
3874          HC       3   16.84
              *

3875          KK    D68o  DIVERT
3876          KM     Divert flow into ADOT west Tunnel storm water interceptor 14'
3877          KM     96" SD at 7th Ave and 96" SD at 3rd Ave.  Q = 433 + 510 = 943 cfs
3878          DT  D68oPT
3879          DI       0     100     943    2000   10000
3880          DQ       0     100     943     943     943
```

```
                *

3881            KK   R68oW   ROUTE
3882            KM    Route surface flow west from Subbasin 68o to 72o.
3883            RS       6    FLOW      -1
3884            RC   0.050   0.016   0.050    2640  0.0015
3885            RX       0    1.05      42   102.9   107.1     168  208.95     210
3886            RY       3       1     0.5       0       0     0.5       1       3
                *

3887            KK     72o   BASIN
3888            KM    Subbasin at NEC of I-10 & 15th Ave.
3889            BA   0.662
3890            LG    0.41    0.15    8.80    0.08      12
3891            UC   1.023   0.657
3892            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3893            UA     100
                *

3894            KK    C72o COMBINE
3895            KM    Combine hydrographs 72o, R68oW, and C72mS
3896            HC       3   17.78
                *

3897            KK    D72o  DIVERT
3898            KM    Diver 433 cfs into storm drain
3899            DT   D72oP
3900            DI       0     100     433    1000   10000
3901            DQ       0     100     433     433     433
                *
1                                                HEC-1 INPUT                                                    PAGE109

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3902            KK    S72o STORAGE
3903            KM    ADOT West Tunnel Inlet Basin - Online Regional Detention Basin.
3904            RS       1    STOR       0
3905            SV       0     0.2       2       3     4.3     6.2     8.9      50
3906            SE       0       2       6       8      10      12      14      16
3907            SQ       0      50     250     380     530    1148    2156    3703
                *

3908            KK  D72oPT  DIVERT
3909            KM    Divert flow into West Tunnel
3910            DT   D72o1
3911            DI       0      50     250     380     530    1148    2156    3703
3912            DQ       0       0       0       0       0     458    1296    2763
                *

3913            KK  PT72oE   ROUTE
3914            KM    14' pipe to ADOT West Tunnel from I-10/15th Ave. to I-10/7th Ave.
3915            RK    2600  0.0030   0.015            CIRC    14.0
                *

3916            KK  B68oPT RETRIEVE
3917            KM    Retrieve diverted pipe flow from D68oPT.
3918            DR  D68oPT
                *

3919            KK  CPT68o COMBINE
3920            KM    Combine hydrographs PT72oE and D68oPT in the North Tunnel.
3921            HC       2   18.47
                *

3922            KK  PT68oE   ROUTE
3923            KM    Route pipe flow from I-10/7th Ave. to I-10/Central Ave.
3924            RK     850  0.0030   0.015            CIRC    14.0
                *

3925            KK  BD72o1 RETRIEVE
3926            KM    Retrieve diverted surface flow from D72o1.
3927            DR   D72o1
                *

3928            KK   D72oE  DIVERT
3929            KM    Divert flow overtopping West Tunnel Inlet Basin east and west,
3930            KM    East flow into I-10 depressed segment
3931            DT   D72oW
3932            DI       0     100     458    1296    2763
3933            DQ       0       0       0       0     382
                *

3934            KK   S-I10 STORAGE
3935            KM    Routing through I-10 depressed segment as a detention basin
3936            KM    Flood water within the depressed area is pumped into ADOT
```

```
3937          KM    West Tunnel.  Two Pump Stations with total flow = 350 cfs, 1252 ac-ft.
3938          RS       1    STOR       0
3939          SV       0      10      62     160     287     602     997    1252    1539
1                                          HEC-1 INPUT                                                    PAGE110

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3940          SE       0       1       4       8      12      20      28      32      36
3941          SQ       0      50     175     350     350     350     350     350    4820
              *

3942          KK  B64oPT RETRIEVE
3943          KM    Retrieve diverted pipe flow from D64oPT.
3944          DR  D64oPT
              *

3945          KK  B60oPT RETRIEVE
3946          KM    Retrieve diverted pipe flow from D60oPT.
3947          DR  D60oPT
              *

3948          KK  PT60oW   ROUTE
3949          KM    Route pipe flow from 7th st/I-10 to 3rd st/I-10, subbasin 64o.
3950          RK    2800  0.0030   0.015            CIRC    14.0
              *

3951          KK    C-WT COMBINE
3952          KM    Total flow into ADOT west tunnel at 3rd st/I-10,
3953          KM    Combine hydrographs S-I10, PT68oE, PT60oW, and D64oPT.
3954          HC       4   21.04
              *

3955          KK   PT64o   ROUTE
3956          KM    Route ADOT West Tunnel flow from 3rd st/I-10 through subbasin 64q.
3957          RK    3800   0.002   0.015            CIRC    21.0
              *

3958          KK  DN_64o  DIVERT
3959          KM    Divert all flow to West Tunnel ( to free up a HEC-1 hydrograph path).
3960          DT  DPT64o
3961          DI       0     100    1000   10000
3962          DQ       0     100    1000   10000
              *

3963          KK     36q   BASIN
3964          KM    Subbasin at NEC of Van Buren and 32nd St
3965          BA   0.267
3966          LG    0.26    0.15    9.70    0.06      25
3967          UC   0.677   0.501
3968          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3969          UA     100
              *

3970          KK   BD32q RETRIEVE
3971          KM    Retrieve diverted surface flow from D32q.
3972          DR    D32q
              *
1                                          HEC-1 INPUT                                                    PAGE111

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3973          KK   R32qS   ROUTE
3974          KM    Route surface flow west from Subbasin 32q to 36q.
3975          RS       3    FLOW      -1
3976          RC   0.050   0.016   0.050    3600  0.0044
3977          RX       0     0.5      20      49      51      80    99.5     100
3978          RY       3       1     0.5       0       0     0.5       1       3
              *

3979          KK  B36pP2 RETRIEVE
3980          KM    Retrieve diverted pipe flow from D36pP2.
3981          DR  D36pP2
              *

3982          KK   P36pS   ROUTE
3983          KM    Route pipe flow from 32nd st/SR-202 to subbasin 36q.
3984          KM    Pipe size needs check
3985          RK    4500  0.0036   0.015            CIRC     5.0
              *

3986          KK    C36q COMBINE
3987          KM    Combine hydrographs D32pS, R28qW, and 36q.
3988          HC       3    1.56
              *
```

```
3989          KK    D36q  DIVERT
3990          KM    Divert 295 cfs into pipe (south).
3991          DT   D36qP
3992          DI       0     100     295   10000
3993          DQ       0     100     295     295
              *

3994          KK   D36qW  DIVERT
3995          KM    Divert 43% of surface flow south.
3996          DT   D36qS
3997          DI       0     100    1000   10000
3998          DQ       0      43     428    4276
              *

3999          KK   R36qW   ROUTE
4000          KM    Route surface flow west from Subbasin 36q to 40q.
4001          RS       5    FLOW      -1
4002          RC   0.050   0.016   0.050    2640  0.0023
4003          RX       0     1.3      52   127.4   132.6     208   258.7     260
4004          RY       3       1     0.5       0       0     0.5       1       3
              *

4005          KK     40q   BASIN
4006          KM    Subbasin at NEC of Van Buren and 28th St
4007          BA   0.349
4008          LG    0.31    0.15    9.70    0.06      29
4009          UC   0.746   0.537
4010          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4011          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4012          KK    C40q COMBINE
4013          KM    Combine hydrographs R36qW and 40q.
4014          HC       2    1.91
              *

4015          KK    D40q  DIVERT
4016          KM    Divert 32 cfs into pipe (west).
4017          DT   D40qP
4018          DI       0      32    1000   10000
4019          DQ       0      32      32      32
              *

4020          KK   D40qW  DIVERT
4021          KM    Divert 61% of surface flow to south.
4022          DT   D40qS
4023          DI       0     100    1000   10000
4024          DQ       0      61     608    6077
              *

4025          KK   R40qW   ROUTE
4026          KM    Route surface flow west from Subbasin 40q to 44q.
4027          RS       5    FLOW      -1
4028          RC   0.050   0.016   0.050    2640  0.0015
4029          RX       0    1.05      42   102.9   107.1     168  208.95     210
4030          RY       3       1     0.5       0       0     0.5       1       3
              *

4031          KK  BD40qP RETRIEVE
4032          KM    Retrieve diverted pipe flow from D40qP.
4033          DR   D40qP
              *

4034          KK   P40qW   ROUTE
4035          KM    Route pipe flow from 28th st/Van Buren to subbasin 44q.
4036          RK    2700  0.0031   0.015            CIRC     3.0
              *

4037          KK   C40qW COMBINE
4038          KM    Combine hydrographs R40qW and P40qW.
4039          HC       2    1.91
              *

4040          KK     44q   BASIN
4041          KM    Subbasin at NEC of Van Bure24th St
4042          BA   0.359
4043          LG    0.33    0.15    9.70    0.06      49
4044          UC   0.767   0.587
4045          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4046          UA     100
              *
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4047          KK  B44pP2 RETRIEVE
4048          KM    Retrieve diverted pipe flow from D44pP2.
4049          DR  D44pP2
              *

4050          KK   P44pS   ROUTE
4051          KM    Route pipe flow from 24th st/McDowell to subbasin 44q.
4052          RK    3700  0.0030   0.015            CIRC    5.00
              *

4053          KK    C44q COMBINE
4054          KM    Combine hydrographs C40qW, 44q, and P44pS.
4055          HC       3    2.57
              *

4056          KK    D44q  DIVERT
4057          KM    Divert 201 cfs into pipe (south).
4058          DT   D44qP
4059          DI       0     100     201   10000
4060          DQ       0     100     201     201
              *

4061          KK   D44qW  DIVERT
4062          KM    Divert 62% of surface flow to south.
4063          DT   D44qS
4064          DI       0     100    1000   10000
4065          DQ       0      62     621    6211
              *

4066          KK   R44qW   ROUTE
4067          KM    Route surface flow west from Subbasin 44q to 48q.
4068          RS       3    FLOW      -1
4069          RC   0.050   0.016   0.050    2500  0.0018
4070          RX       0     0.8      32    78.4    81.6     128   159.2     160
4071          RY       3       1     0.5       0       0     0.5       1       3
              *

4072          KK     48q   BASIN
4073          KM    Subbasin at NEC of Van Buren and I-10
4074          BA   0.300
4075          LG    0.25    0.15    9.70    0.06      24
4076          UC   0.845   0.672
4077          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4078          UA     100
              *

4079          KK    C48q COMBINE
4080          KM    Combine hydrographs R44qW and 48q.
4081          HC       2    2.87
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4082          KK   DB48q  DIVERT
4083          KM    Divert flow into East ADOT Tunnel.
4084          KM    78" SD at Pierce St and 96" SD at Taylor St. Q = 245+368=613 cfs.
4085          DT  D48qPT
4086          DI       0     100     613    1000   10000
4087          DQ       0     100     613     613     613
              *

4088          KK    S48q STORAGE
4089          KM    Online detention basin, 5 ac-ft.
4090          RS       1    STOR       0
4091          SV       0       2       4     5.2       8
4092          SE       0       2       4       5       7
4093          SQ       0      30      43      48     438
              *

4094          KK   D48qW  DIVERT
4095          KM    Divert 59% of flow to south.
4096          DT   D48qS
4097          DI       0     100    1000   10000
4098          DQ       0      59     590    5900
              *

4099          KK   R48qW   ROUTE
4100          KM    Route surface flow west from Subbasin 48q to 52q.
4101          RS       2    FLOW      -1
4102          RC   0.050   0.016   0.050    3050  0.0020
```

```
4103          RX       0     0.8      32    78.4    81.6     128   159.2     160
4104          RY       3       1     0.5       0       0     0.5       1       3
              *

4105          KK     52q   BASIN
4106          KM    Subbasin at NEC of Van Buren and 16th St
4107          BA   0.394
4108          LG    0.43    0.15    8.80    0.08      35
4109          UC   0.951   0.720
4110          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4111          UA     100
              *

4112          KK    C52q COMBINE
4113          KM    Combine hydrographs D48qW and 52q.
4114          HC       2    0.39
              *

4115          KK    D52q  DIVERT
4116          KM    Divert 191 cfs into pipe (south).
4117          DT   D52qP
4118          DI       0     100     191   10000
4119          DQ       0     100     191     191
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4120          KK   D52qW  DIVERT
4121          KM    Divert 51% of surface flow to south.
4122          DT   D52qS
4123          DI       0     100    1000   10000
4124          DQ       0      51     510    5100
              *

4125          KK   R52qW   ROUTE
4126          KM    Route surface flow west from Subbasin 52q to 56q.
4127          RS       7    FLOW      -1
4128          RC   0.050   0.016   0.050    2640  0.0015
4129          RX       0     1.6      64   156.8   163.2     256   318.4     320
4130          RY       3       1     0.5       0       0     0.5       1       3
              *

4131          KK     56q   BASIN
4132          KM    Subbasin at NEC of Van Buren and 12th St
4133          BA   0.354
4134          LG    0.24    0.25    6.00    0.21      22
4135          UC   0.912   0.638
4136          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4137          UA     100
              *

4138          KK    C56q COMBINE
4139          KM    Combine hydrographs R52qW and 56q.
4140          HC       2    0.75
              *

4141          KK    D56q  DIVERT
4142          KM    Divert 68 cfs into pipe (south).
4143          DT   D56qP
4144          DI       0      68    1000   10000
4145          DQ       0      68      68      68
              *

4146          KK   D56qW  DIVERT
4147          KM    Divert 33% of surface flow to south.
4148          DT   D56qS
4149          DI       0     100    1000   10000
4150          DQ       0      33     330    3300
              *

4151          KK   R56qW   ROUTE
4152          KM    Route surface flow west from Subbasin 56q to 60q.
4153          RS       5    FLOW      -1
4154          RC   0.050   0.016   0.050    2640  0.0015
4155          RX       0     2.1      84   205.8   214.2     336   417.9     420
4156          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4157          KK     60q   BASIN
4158          KM    Subbasin at NEC of Van Buren and 7th St
```

```
4159          BA   0.353
4160          LG    0.24    0.25    5.00    0.33      23
4161          UC   0.878   0.514
4162          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4163          UA     100
              *

4164          KK    C60q COMBINE
4165          KM    Combine hydrographs R56qW and 60q.
4166          HC       2    1.10
              *

4167          KK    D60q  DIVERT
4168          KM    Divert 281 cfs into pipe (south).
4169          DT   D60qP
4170          DI       0     100     281   10000
4171          DQ       0     100     281     281
              *

4172          KK   D60qW  DIVERT
4173          KM    Divert 28% of surface flow to south.
4174          DT   D60qS
4175          DI       0     100    1000   10000
4176          DQ       0      28     280    2800
              *

4177          KK   R60qW   ROUTE
4178          KM    Route surface flow west from Subbasin 60q to 64q.
4179          RS       6    FLOW      -1
4180          RC   0.050   0.016   0.050    2640  0.0015
4181          RX       0    1.55      62   151.9   158.1     248  308.45     310
4182          RY       3       1     0.5       0       0     0.5       1       3
              *

4183          KK     64q   BASIN
4184          KM    Subbasin at NEC of Van Buren and Central
4185          BA   0.405
4186          LG    0.17    0.17    6.80    0.17      42
4187          UC   0.899   0.478
4188          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4189          UA     100
              *

4190          KK    C64q COMBINE
4191          KM    Combine flows of 64q, R60qW, and DN_64o.
4192          HC       3    1.51
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4193          KK    D64q  DIVERT
4194          KM    Divert 0.0 cfs into West Tunnel.
4195          KM    Assuming the storm drain is not connected to West Tunnel.
4196          DT  D64qPT
4197          DI       0     100    1000   10000
4198          DQ       0       0       0       0
              *

4199          KK   D64q1  DIVERT
4200          KM    Divert 68 cfs into storm drain to west).
4201          DT   D64qP
4202          DI       0      68    1000   10000
4203          DQ       0      68      68      68
              *

4204          KK   D64qW  DIVERT
4205          KM    Divert 33% of surface flow to south.
4206          DT   D64qS
4207          DI       0     100    1000   10000
4208          DQ       0      33     330    3300
              *

4209          KK   R64qW   ROUTE
4210          KM    Route surface flow west from Subbasin 64q to 68q.
4211          RS       4    FLOW      -1
4212          RC   0.050   0.016   0.050    2300  0.0009
4213          RX       0    1.35      54   132.3   137.7     216  268.65     270
4214          RY       3       1     0.5       0       0     0.5       1       3
              *

4215          KK  BD64qP RETRIEVE
4216          KM    Retrieve diverted pipe flow from D64qP.
4217          DR   D64qP
              *
```

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4218          KK   P64qW   ROUTE
4219          KM    Route pipe flow from Central/Van Buren to subbasin 68q.
4220          RK    2650  0.0030   0.015            CIRC     4.0
              *

4221          KK   C64qW COMBINE
4222          KM    Combine hydrographs R64qW and P64qW.
4223          HC       2    1.51
              *

4224          KK     68q   BASIN
4225          KM    Subbasin at NEC of Van Buren and 7th Ave
4226          BA   0.295
4227          LG    0.18    0.23    6.20    0.22      36
4228          UC   0.835   0.472
4229          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4230          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE118

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4231          KK    C68q COMBINE
4232          KM    Combine hydrographs C64qW and 68q.
4233          HC       2    1.80
              *

4234          KK    D68q  DIVERT
4235          KM    Divert 68 cfs into pipe (west).
4236          DT   D68qP
4237          DI       0      68    1000   10000
4238          DQ       0      68      68      68
              *

4239          KK   D68qW  DIVERT
4240          KM    Divert 33% of surface flow to south.
4241          DT   D68qS
4242          DI       0     100    1000   10000
4243          DQ       0      33     330    3300
              *

4244          KK   R68qW   ROUTE
4245          KM    Route surface flow west from Subbasin 68q to 72q.
4246          RS       3    FLOW      -1
4247          RC   0.050   0.016   0.050    2640  0.0015
4248          RX       0    1.05      42   102.9   107.1     168  208.95     210
4249          RY       3       1     0.5       0       0     0.5       1       3
              *

4250          KK  BD68qP RETRIEVE
4251          KM    Retrieve diverted pipe flow from D68qP.
4252          DR   D68qP
              *

4253          KK   P68qW   ROUTE
4254          KM    Route pipe flow from 7th ave/Van Buren to subbasin 72q.
4255          RK    3500  0.0030   0.015            CIRC     4.0
              *

4256          KK   C68qW COMBINE
4257          KM    Combine hydrographs R68qW and P68qW.
4258          HC       2    1.80
              *

4259          KK     72q   BASIN
4260          KM    Subbasin at NEC of Van Buren and 15th Ave
4261          BA   0.329
4262          LG    0.19    0.15    8.40    0.09      29
4263          UC   0.900   0.524
4264          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4265          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE119

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4266          KK   B72oP RETRIEVE
4267          KM    Retrieve diverted pipe flow from D72oP.
4268          DR   D72oP
              *

4269          KK   P72oS   ROUTE
4270          KM    Route pipe flow from 15th ave/THomas to subbasin 72q.
```

```
4271          RK    3700  0.0030   0.015            CIRC    8.00
              *

4272          KK    C72q COMBINE
4273          KM    Combine hydrographs C68qW, 72q, and P72oS.
4274          HC       3    3.13
              *

4275          KK    D72q  DIVERT
4276          KM    Divert 662 cfs into two pipes (229 cfs for east, 433 for west).
4277          DT   D72qP
4278          DI       0     100     662   10000
4279          DQ       0     100     662     662
              *

4280          KK   D72qW  DIVERT
4281          KM    Divert 33% of surface flow to south.
4282          DT   D72qS
4283          DI       0     100    1000   10000
4284          DQ       0      33     330    3300
              *

4285          KK   R72qW   ROUTE
4286          KM    Route surface flow west from Subbasin 72q to 76q.
4287          RS       4    FLOW      -1
4288          RC   0.050   0.016   0.050    3000  0.0015
4289          RX       0    1.85      74   181.3   188.7     296  368.15     370
4290          RY       3       1     0.5       0       0     0.5       1       3
              *

4291          KK     80o   BASIN
4292          KM    Subbasin at NEC of Mcdowell and 19th Ave
4293          BA   0.542
4294          LG    0.46    0.15    9.70    0.06      33
4295          UC   0.704   0.378
4296          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4297          UA     100
              *

4298          KK  BD84mP RETRIEVE
4299          KM    Retrieve diverted pipe flow from D84mP.
4300          DR   D84mP
              *
1                                        HEC-1 INPUT                                          PAGE120

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4301          KK   P84mS   ROUTE
4302          KM    Route pipe flow from I-17/THomas to subbasin 80o.
4303          RK    1800  0.0030   0.015            CIRC    6.50
              *

4304          KK  BD84mS RETRIEVE
4305          KM    Retrieve diverted surface flow from D84mS.
4306          DR   D84mS
              *

4307          KK   R84mS   ROUTE
4308          KM    Route surface flow south from Subbasin 84m to 80o.
4309          RS       3    FLOW      -1
4310          RC   0.050   0.016   0.050    6000   0.004
4311          RX       0    0.75      30    73.5    76.5     120  149.25     150
4312          RY       3       1     0.5       0       0     0.5       1       3
              *

4313          KK   C84mS COMBINE
4314          KM    Combine hydrographs R84mS and P84mS.
4315          HC       2    5.49
              *

4316          KK  BD80mS RETRIEVE
4317          KM    Retrieve diverted surface flow from D80mS.
4318          DR   D80mS
              *

4319          KK   R80mS   ROUTE
4320          KM    Route surface flow south from Subbasin 80m to 80o.
4321          RS       2    FLOW      -1
4322          RC   0.050   0.016   0.050    3500  0.0065
4323          RX       0     0.5      20      49      51      80    99.5     100
4324          RY       3       1     0.5       0       0     0.5       1       3
              *

4325          KK    C80o COMBINE
4326          KM    Combine hydrographs R80mS, C84mS, and 80o.
```

```
4327          HC       3    6.58
              *

4328          KK    E80o  DIVERT
4329          KM    By-pass 249 cfs and the remaining flow diverted into offline detention.
4330          DT   DB80o
4331          DI       0     100     249    1000   10000
4332          DQ       0       0       0     751    9751
              *

4333          KK  BDB80oRETRIEVE
4334          KM    Retrieve diverted flow from DB80 for offline detention.
4335          DR   DB80o
              *
1                                        HEC-1 INPUT                                          PAGE121

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4336          KK    S80o STORAGE
4337          KM    Offline Regional Detention Basin, 18 ac-ft.
4338          RS       1    STOR       0
4339          SV       0     2.7     6.2    10.1    14.3    17.7    24.3
4340          SE       0       2       4       6       8     9.5      12
4341          SQ       0      15      26      34      55     120    1800
              *

4342          KK   CC80o COMBINE
4343          KM    Combine hydrographs S80o and E80o.
4344          HC       2    6.58
              *

4345          KK    D80o  DIVERT
4346          KM    Divert 249 cfs into pipe (south).
4347          DT   D80oP
4348          DI       0     100     249   10000
4349          DQ       0     100     249     249
              *

4350          KK   R80oS   ROUTE
4351          KM    Route surface flow south from Subbasin 80o to 80p.
4352          RS       3    FLOW      -1
4353          RC   0.050   0.016   0.050    4000  0.0037
4354          RX       0     1.5      60     147     153     240   298.5     300
4355          RY       3       1     0.5       0       0     0.5       1       3
              *

4356          KK     76o   BASIN
4357          KM    Subbasin at NEC of I-10 and 19th Ave
4358          BA   0.673
4359          LG    0.17    0.15    8.80    0.08      26
4360          UC   0.982   0.662
4361          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4362          UA     100
              *

4363          KK   BD76m RETRIEVE
4364          KM    Retrieve diverted surface flow from D76m.
4365          DR    D76m
              *

4366          KK   R76mS   ROUTE
4367          KM    Route surface flow south from Subbasin 76m to 76o.
4368          RS       3    FLOW      -1
4369          RC   0.050   0.016   0.050    6900  0.0023
4370          RX       0    0.75      30    73.5    76.5     120  149.25     150
4371          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                          PAGE122

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4372          KK  B76mP2 RETRIEVE
4373          KM    Retrieve diverted pipe flow from D76mP2.
4374          DR  D76mP2
              *

4375          KK   P76mS   ROUTE
4376          KM    Route pipe flow from 19th ave/THomas to subbasin 76o.
4377          RK    7000  0.0030   0.015            CIRC    5.50
              *

4378          KK   C76mS COMBINE
4379          KM    Combine hydrographs R76mS and P76mS.
4380          HC       2    6.71
```

```
                *

4381            KK  BD72oW RETRIEVE
4382            KM    Retrieve diverted surface flow from D72oW.
4383            DR   D72oW
                *

4384            KK   R72oW   ROUTE
4385            KM    Route surface flow west from Subbasin 72o to 76o.
4386            RS       2    FLOW      -1
4387            RC   0.050   0.016   0.050    2800  0.0007
4388            RX       0     0.8      32    78.4    81.6     128   159.2     160
4389            RY       3       1     0.5       0       0     0.5       1       3
                *

4390            KK    C76o COMBINE
4391            KM    COmbine flows of 76o, C76mS, R80oS, and R72oW
4392            HC       4    7.92
                *

4393            KK   D76oP  DIVERT
4394            KM    Divert 229 cfs into pipe (south).
4395            DT    D76o
4396            DI       0     100     229   10000
4397            DQ       0       0       0    9771
                *

4398            KK   P76oS   ROUTE
4399            KM    Route pipe flow from 19th ave/THomas to subbasin 76q.
4400            RK    4000  0.0031   0.015            CIRC    6.25
                *

4401            KK   BD76o RETRIEVE
4402            KM    Retrieve diverted surface flow from D76o.
4403            DR    D76o
                *
1                                          HEC-1 INPUT                                                    PAGE123

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4404            KK   D76oS  DIVERT
4405            KM    Divert 10% of surface flow to west.
4406            DT   D76oW
4407            DI       0     100    1000   10000
4408            DQ       0      10     100    1000
                *

4409            KK   R76oS   ROUTE
4410            KM    Route surface flow south from Subbasin 76o to 76q.
4411            RS       2    FLOW      -1
4412            RC   0.050   0.016   0.050    4000  0.0022
4413            RX       0    1.05      42   102.9   107.1     168  208.95     210
4414            RY       3       1     0.5       0       0     0.5       1       3
                *

4415            KK   C76oS COMBINE
4416            KM    Combine hydrographs R76oS and P76oS.
4417            HC       2    7.92
                *

4418            KK     76q   BASIN
4419            KM    Subbasin at NEC of Van Buren and UPRR
4420            BA   0.396
4421            LG    0.19    0.13   10.10    0.05      39
4422            UC   0.765   0.413
4423            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4424            UA     100
                *

4425            KK    C76q COMBINE
4426            KM    Combine hydrographs 76q, R72qW, and C76oS.
4427            HC       3   11.45
                *

4428            KK    D76q  DIVERT
4429            KM    Divert 229 cfs into pipe (south).
4430            DT   D76qP
4431            DI       0     100     229   10000
4432            DQ       0     100     229     229
                *

4433            KK   D76qW  DIVERT
4434            KM    Divert 52% of surface flow to south.
4435            DT   D76qS
4436            DI       0     100    1000   10000
```

```
4437          DQ       0      52     520    5200
              *

4438          KK   R76qW   ROUTE
4439          KM    Route surface flow west from Subbasin 76q to 80q.
4440          RS       2    FLOW      -1
4441          RC   0.050   0.016   0.050    2300  0.0009
4442          RX       0     0.8      32    78.4    81.6     128   159.2     160
4443          RY       4       1     0.5       0       0     0.5       1       4
              *
1                                          HEC-1 INPUT                                                PAGE124

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4444          KK     80p   BASIN
4445          KM    Subbasin at NEC of I-10 and I-17
4446          BA   0.397
4447          LG    0.14    0.15    8.00    0.11      55
4448          UC   0.664   0.411
4449          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4450          UA     100
              *

4451          KK  BD76oW RETRIEVE
4452          KM    Retrieve diverted surface flow from D76oW.
4453          DR   D76oW
              *

4454          KK   R76oW   ROUTE
4455          KM    Route surface flow west from Subbasin 76o to 80p.
4456          RS       2    FLOW      -1
4457          RC   0.050   0.016   0.050    2200  0.0036
4458          RX       0     1.8      72   176.4   183.6     288   358.2     360
4459          RY       3       1     0.5       0       0     0.5       1       3
              *

4460          KK    C80p COMBINE
4461          KM    Combine flows of 80P and R76oW
4462          HC       2    8.32
              *

4463          KK    S80p STORAGE
4464          KM    Online Regional Detention Basin, 6 ac-ft.
4465          RS       1    STOR       0
4466          SV       0     1.9     3.8     5.7     7.8      10
4467          SE       0       2       4       6       8      10
4468          SQ       0       2       3       4     400    1100
              *

4469          KK  BD80oP RETRIEVE
4470          KM    Retrieve diverted pipe flow from D80oP.
4471          DR   D80oP
              *

4472          KK   P80oS   ROUTE
4473          KM    Route pipe flow from subbasin 80o to subbasin 80p along I-17.
4474          RK    5900  0.0030   0.015            CIRC    6.50
              *

4475          KK   CC80p COMBINE
4476          KM    Combine hydrographs P80oS and S80p.
4477          HC       2    8.32
              *
1                                          HEC-1 INPUT                                                PAGE125

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4478          KK    D80p  DIVERT
4479          KM    Divert 249 cfs into pipe (south).
4480          DT   D80pP
4481          DI       0     100     249   10000
4482          DQ       0     100     249     249
              *

4483          KK   R80pS   ROUTE
4484          KM    Route surface flow south from Subbasin 80p to 80q.
4485          RS       8    FLOW      -1
4486          RC   0.050   0.016   0.050    6200  0.0019
4487          RX       0     1.3      52   127.4   132.6     208   258.7     260
4488          RY       3       1     0.5       0       0     0.5       1       3
              *

4489          KK  BD80pP RETRIEVE
4490          KM    Retrieve diverted pipe flow from D80pP.
```

```
4491          DR   D80pP
              *

4492          KK   P80pS   ROUTE
4493          KM    Route pipe flow from I-17/I-10 to subbasin 80q.
4494          RK    6200  0.0030   0.015            CIRC    6.50
              *

4495          KK   C80pS COMBINE
4496          KM    Combine hydrographs R36oS and P36oS.
4497          HC       2    8.32
              *

4498          KK     80q   BASIN
4499          KM    Subbasin at NEC of UPRR and I-17
4500          BA   0.497
4501          LG    0.20    0.15    9.70    0.06      31
4502          UC   1.032   0.739
4503          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4504          UA     100
              *

4505          KK    C80q COMBINE
4506          KM    Combine flows of 80q, C80pS, and R76qW
4507          HC       3   12.34
              *

4508          KK     28s   BASIN
4509          KM   Subbasin at NEC of UPRR and 40th St
4510          BA   0.164
4511          LG    0.15    0.23    5.80    0.25      42
4512          UC   0.565   0.316
4513          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4514          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4515          KK  BD28qP RETRIEVE
4516          KM    Retrieve diverted pipe flow from D28qP.
4517          DR   D28qP
              *

4518          KK  D28qP1  DIVERT
4519          KM    Divert 32 cfs into pipe (east).
4520          DT  D28qP2
4521          DI       0     340    1000
4522          DQ       0      32      32
              *

4523          KK   P28qS   ROUTE
4524          KM    Route pipe flow from 40th st/Grand Canal to subbasin 28s.
4525          RK    2500  0.0031   0.015            CIRC    7.00
              *

4526          KK  BD28qS RETRIEVE
4527          KM    Retrieve diverted surface flow from D28qS.
4528          DR   D28qS
              *

4529          KK   R28qS   ROUTE
4530          KM    Route surface flow south from Subbasin 28q to 28s.
4531          RS       1    FLOW      -1
4532          RC   0.050   0.016   0.050    1240  0.0065
4533          RX       0     0.8      32    78.4    81.6     128   159.2     160
4534          RY       3       1     0.5       0       0     0.5       1       3
              *

4535          KK   C28qS COMBINE
4536          KM    Combine hydrographs R28qS and P28qS.
4537          HC       2    0.82
              *

4538          KK    C28s COMBINE
4539          KM    Combine hydrographs C28qS and 28s.
4540          HC       2    0.98
              *

4541          KK    D28s  DIVERT
4542          KM    Divert 492 cfs into pipe (south).
4543          DT   D28sP
4544          DI       0     100     492   10000
4545          DQ       0     100     492     492
              *
```

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4546          KK   D28sW  DIVERT
4547          KM    Divert 43% of surface flow to south.
4548          DT   D28sS
4549          DI       0     100    1000   10000
4550          DQ       0      43     434    4340
              *
1                                        HEC-1 INPUT                                                    PAGE127

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4551          KK   R28sW   ROUTE
4552          KM    Route surface flow west from Subbasin 28s to 32s.
4553          RS       5    FLOW      -1
4554          RC   0.050   0.016   0.050    2640  0.0023
4555          RX       0     0.8      32    78.4    81.6     128   159.2     160
4556          RY       3       1     0.5       0       0     0.5       1       3
              *

4557          KK     32s   BASIN
4558          KM    Subbasin at NEC of UPRR and 36th St
4559          BA   0.336
4560          LG    0.52    0.15    8.00    0.11      48
4561          UC   0.823   0.634
4562          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4563          UA     100
              *

4564          KK    C32s COMBINE
4565          KM    Combine hydrographs 32s and R28sW.
4566          HC       2    1.32
              *

4567          KK   S32s STORAGE
4568          KM    Regional online retention basin, 16 ac-ft.
4569          RS       1    STOR       0
4570          SV       0     0.9     2.2     3.9     6.1     8.8      16    21.2
4571          SE       0       2       4       6       8      10      14      16
4572          SS      14     100     2.7     1.5
              *

4573          KK    D32s  DIVERT
4574          KM    Divert 48 cfs into pipe (west).
4575          DT   D32sP
4576          DI       0      48    1000   10000
4577          DQ       0      48      48      48
              *

4578          KK   R32sW   ROUTE
4579          KM    Route surface flow west from Subbasin 32s to 36s.
4580          RS       4    FLOW      -1
4581          RC   0.050   0.016   0.050    2640  0.0015
4582          RX       0     1.3      52   127.4   132.6     208   258.7     260
4583          RY       3       1     0.5       0       0     0.5       1       3
              *

4584          KK  BD32sP RETRIEVE
4585          KM    Retrieve diverted pipe flow from D32sP.
4586          DR   D32sP
              *
1                                        HEC-1 INPUT                                                    PAGE128

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4587          KK   P32sW   ROUTE
4588          KM    Route pipe flow from subbasin 32s to subbasin 36s.
4589          RK    2650  0.0030   0.015            CIRC     3.5
              *

4590          KK   C32sW COMBINE
4591          KM    Combine hydrographs R32sW and P32sW.
4592          HC       2    1.32
              *

4593          KK     36s   BASIN
4594          KM    Subbasin at NEC of UPRR and 32nd St
4595          BA   0.241
4596          LG    0.19    0.13   10.10    0.05      34
4597          UC   0.736   0.470
4598          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4599          UA     100
              *

4600          KK  BD36qP RETRIEVE
```

```
4601          KM    Retrieve diverted pipe flow from D36qP.
4602          DR   D36qP
              *

4603          KK   P36qS   ROUTE
4604          KM    Route pipe flow from 32nd st/Van Buren to subbasin 36s.
4605          RK    2500  0.0065   0.015            CIRC    6.00
              *

4606          KK  BD36qS RETRIEVE
4607          KM    Retrieve diverted surface flow from D36qS.
4608          DR   D36qS
              *

4609          KK   R36qS   ROUTE
4610          KM    Route surface flow south from Subbasin 36q to 36s.
4611          RS       4    FLOW      -1
4612          RC   0.050   0.016   0.050    2530  0.0032
4613          RX       0    0.75      30    73.5    76.5     120  149.25     150
4614          RY       3       1     0.5       0       0     0.5       1       3
              *

4615          KK   C36qS COMBINE
4616          KM    Combine hydrographs R36qS and P36qS.
4617          HC       2    1.56
              *

4618          KK    C36s COMBINE
4619          KM    Combine hydrographs C36qS, 36s, and C32sW.
4620          HC       3    2.30
              *
1                                        HEC-1 INPUT                                                    PAGE129

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4621          KK    D36s  DIVERT
4622          KM    Divert 303 cfs into pipe (south).
4623          DT   D36sP
4624          DI       0     100     303   10000
4625          DQ       0     100     303     303
              *

4626          KK   R36sW   ROUTE
4627          KM    Route surface flow west from Subbasin 36s to 40s.
4628          RS       2    FLOW      -1
4629          RC   0.050   0.016   0.050    2640  0.0015
4630          RX       0     0.8      32    78.4    81.6     128   159.2     160
4631          RY       3       1     0.5       0       0     0.5       1       3
              *

4632          KK     40s   BASIN
4633          KM    Subbasin at NEC of UPRR and 28th St
4634          BA   0.244
4635          LG    0.15    0.13   10.10    0.05      48
4636          UC   0.755   0.480
4637          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4638          UA     100
              *

4639          KK  BD40qS RETRIEVE
4640          KM    Retrieve diverted surface flow from D40qS.
4641          DR   D40qS
              *

4642          KK   R40qS   ROUTE
4643          KM    Route surface flow south from Subbasin 40q to 40s.
4644          RS       3    FLOW      -1
4645          RC   0.050   0.016   0.050    2540  0.0024
4646          RX       0    1.05      42   102.9   107.1     168  208.95     210
4647          RY       3       1     0.5       0       0     0.5       1       3
              *

4648          KK    C40s COMBINE
4649          KM    Combine hydrographs R40qS, 40s, and R36sW.
4650          HC       3    2.89
              *

4651          KK    D40s  DIVERT
4652          KM    Divert 68 cfs into pipe (west).
4653          DT   D40sP
4654          DI       0      68    1000   10000
4655          DQ       0      68      68      68
              *
1                                        HEC-1 INPUT                                                    PAGE130
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4656          KK   R40sW   ROUTE
4657          KM    Route surface flow west from Subbasin 40s to 44s.
4658          RS       2    FLOW      -1
4659          RC   0.050   0.016   0.050    2640  0.0015
4660          RX       0     1.1      44   107.8   112.2     176   218.9     220
4661          RY       3       1     0.5       0       0     0.5       1       3
              *

4662          KK  BD40sP RETRIEVE
4663          KM    Retrieve diverted pipe flow from D40sP.
4664          DR   D40sP
              *

4665          KK   P40sW   ROUTE
4666          KM    Route pipe flow from subbasin 40s to subbasin 44s.
4667          RK    2800  0.0030   0.015            CIRC     4.0
              *

4668          KK   C40sW COMBINE
4669          KM    Combine hydrographs R40sW and P40sW.
4670          HC       2    2.89
              *

4671          KK     44s   BASIN
4672          KM    Subbasin at NEC of UPRR and 24th St
4673          BA   0.240
4674          LG    0.16    0.13   10.10    0.05      44
4675          UC   0.834   0.542
4676          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4677          UA     100
              *

4678          KK  BD44qP RETRIEVE
4679          KM    Retrieve diverted pipe flow from D44qP.
4680          DR   D44qP
              *

4681          KK   P44qS   ROUTE
4682          KM    Route pipe flow from 24th st/Van Buren to subbasin 44s.
4683          RK    2500  0.0030   0.015            CIRC    6.00
              *

4684          KK  BD44qS RETRIEVE
4685          KM    Retrieve diverted surface flow from D44qS.
4686          DR   D44qS
              *

4687          KK   R44qS   ROUTE
4688          KM    Route surface flow south from Subbasin 44q to 44s.
4689          RS       3    FLOW      -1
4690          RC   0.050   0.016   0.050    2550  0.0016
4691          RX       0    0.75      30    73.5    76.5     120  149.25     150
4692          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4693          KK   C44qS COMBINE
4694          KM    Combine hydrographs R44qS and P44qS.
4695          HC       2    2.57
              *

4696          KK    C44s COMBINE
4697          KM    Combine hydrographs C44qS, 44s, and C40sW.
4698          HC       3    3.79
              *

4699          KK    D44s  DIVERT
4700          KM    Divert 201 cfs into pipe (south).
4701          DT   D44sP
4702          DI       0     100     201   10000
4703          DQ       0     100     201     201
              *

4704          KK   R44sW   ROUTE
4705          KM    Route surface flow west from Subbasin 44s to 48s.
4706          RS       3    FLOW      -1
4707          RC   0.050   0.016   0.050    2400  0.0017
4708          RX       0     1.1      44   107.8   112.2     176   218.9     220
4709          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
4710          KK     48s   BASIN
4711          KM    Subbasin at NEC of UPRR and I-10
4712          BA   0.212
4713          LG    0.15    0.15    9.70    0.06      49
4714          UC   0.727   0.467
4715          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4716          UA     100
              *

4717          KK  BD48qS RETRIEVE
4718          KM    Retrieve diverted flow from D48qS.
4719          DR   D48qS
              *

4720          KK   R48qS   ROUTE
4721          KM    Route surface flow south from Subbasin 48q to 48s.
4722          RS       2    FLOW      -1
4723          RC   0.050   0.016   0.050    2550  0.0016
4724          RX       0    0.75      30    73.5    76.5     120  149.25     150
4725          RY       3       1     0.5       0       0     0.5       1       3
              *

4726          KK    C48s COMBINE
4727          KM    Combine hydrographs R48qS, 48s, and R44sW.
4728          HC       3    4.31
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4729          KK   DB48s  DIVERT
4730          KM    Divert flow into East Tunnel.
4731          KM    102" SD at Admas St and 96" SD at Madison St. Q =600+468=1068 cfs
4732          DT  D48sPT
4733          DI       0     100    1068   10000
4734          DQ       0     100    1068    1068
              *

4735          KK    S48s STORAGE
4736          KM    Regional online detention basin, 0.6 ac-ft.
4737          RS       1    STOR       0
4738          SV       0     0.6       2
4739          SE       0       1       3
4740          SQ       0      24    1000
              *

4741          KK   R48sW   ROUTE
4742          KM    Route surface flow west from Subbasin 48s to 52s.
4743          RS       6    FLOW      -1
4744          RC   0.050   0.016   0.050    3000  0.0014
4745          RX       0     0.9      36    88.2    91.8     144   179.1     180
4746          RY       3       1     0.5       0       0     0.5       1       3
              *

4747          KK     52s   BASIN
4748          KM    Subbasin at NEC of UPRR and 16th St
4749          BA   0.265
4750          LG    0.17    0.13   10.10    0.05      44
4751          UC   0.785   0.505
4752          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4753          UA     100
              *

4754          KK  BD52qP RETRIEVE
4755          KM    Retrieve diverted pipe flow from D52qP.
4756          DR   D52qP
              *

4757          KK   P52qS   ROUTE
4758          KM    Route pipe flow from subbasin 52q to subbasin 52s.
4759          RK    2500  0.0139   0.015            CIRC    4.42
              *

4760          KK  BD52qS RETRIEVE
4761          KM    Retrieve diverted surface flow from D52qS.
4762          DR   D52qS
              *

4763          KK   R52qS   ROUTE
4764          KM    Route surface flow south from Subbasin 52q to 52s.
4765          RS       5    FLOW      -1
4766          RC   0.050   0.016   0.050    2500  0.0024
4767          RX       0    1.85      74   181.3   188.7     296  368.15     370
4768          RY       3       1     0.5       0       0     0.5       1       3
```

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                *
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4769            KK   C52qS COMBINE
4770            KM    Combine hydrographs R52qS and P52qS.
4771            HC       2    0.39
                *

4772            KK    C52s COMBINE
4773            KM    Combine hydrographs C52s, C52qS, and R48sW.
4774            HC       3    0.66
                *

4775            KK    D52s  DIVERT
4776            KM    Divert 191 cfs into pipe (south).
4777            DT   D52sP
4778            DI       0     100     191   10000
4779            DQ       0     100     191     191
                *

4780            KK   R52sW   ROUTE
4781            KM    Route surface flow west from Subbasin 52s to 56s.
4782            RS       5    FLOW      -1
4783            RC   0.050   0.016   0.050    2640  0.0015
4784            RX       0     0.8      32    78.4    81.6     128   159.2     160
4785            RY       3       1     0.5       0       0     0.5       1       3
                *

4786            KK     56s   BASIN
4787            KM    Subbasin at NEC of UPRR and 12th St
4788            BA   0.255
4789            LG    0.18    0.10   11.20    0.03      39
4790            UC   0.775   0.477
4791            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4792            UA     100
                *

4793            KK  BD56qP RETRIEVE
4794            KM    Retrieve diverted pipe flow from D56qP.
4795            DR   D56qP
                *

4796            KK   P56qS   ROUTE
4797            KM    Route pipe flow from 12th st/Van Buren to subbasin 56s.
4798            RK    2600  0.0030   0.015            CIRC    4.00
                *

4799            KK  BD56qS RETRIEVE
4800            KM    Retrieve diverted surface flow from D56qS.
4801            DR   D56qS
                *
```



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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4802            KK   R56qS   ROUTE
4803            KM    Route surface flow south from Subbasin 56q to 56s.
4804            RS       5    FLOW      -1
4805            RC   0.050   0.016   0.050    2500  0.0024
4806            RX       0    1.25      50   122.5   127.5     200  248.75     250
4807            RY       3       1     0.5       0       0     0.5       1       3
                *

4808            KK   C56qS COMBINE
4809            KM    Combine hydrographs R56qS and P56qS.
4810            HC       2    0.75
                *

4811            KK    C56s COMBINE
4812            KM    Combine hydrographs C56qS, 56s, and R52sW.
4813            HC       3    1.27
                *

4814            KK    D56s  DIVERT
4815            KM    Divert 201 cfs into pipe (south).
4816            DT   D56sP
4817            DI       0     100     201   10000
4818            DQ       0     100     201     201
                *

4819            KK   D56sW  DIVERT
4820            KM    Divert 15% of surface flow to south.
```

```
4821          DT   D56sS
4822          DI       0     100    1000   10000
4823          DQ       0      15     150    1500
              *

4824          KK   R56sW   ROUTE
4825          KM    Route surface flow west from Subbasin 56s to 60s.
4826          RS       3    FLOW      -1
4827          RC   0.050   0.016   0.050    2640  0.0015
4828          RX       0     0.8      32    78.4    81.6     128   159.2     160
4829          RY       3       1     0.5       0       0     0.5       1       3
              *

4830          KK     60s   BASIN
4831          KM    Subbasin at NEC of UPRR and 7th St
4832          BA   0.253
4833          LG    0.14    0.13   10.10    0.05      55
4834          UC   0.644   0.403
4835          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4836          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4837          KK  BD60qP RETRIEVE
4838          KM    Retrieve diverted pipe flow from D60qP.
4839          DR   D60qP
              *

4840          KK   P60qS   ROUTE
4841          KM    Route pipe flow from subbasin 60q to subbasin 60s.
4842          RK    2600  0.0031   0.015            CIRC    6.75
              *

4843          KK  BD60qS RETRIEVE
4844          KM    Retrieve diverted surface flow from D60qS.
4845          DR   D60qS
              *

4846          KK   R60qS   ROUTE
4847          KM    Route surface flow south from Subbasin 60q to 60s.
4848          RS       6    FLOW      -1
4849          RC   0.050   0.016   0.050    2600  0.0037
4850          RX       0    1.25      50   122.5   127.5     200  248.75     250
4851          RY       3       1     0.5       0       0     0.5       1       3
              *

4852          KK   C60qS COMBINE
4853          KM    Combine hydrographs R60qS and P60qS.
4854          HC       2    1.10
              *

4855          KK    C60s COMBINE
4856          KM    Combine flows of 60s, c60qS, and R56sW
4857          HC       3    1.87
              *

4858          KK    D60s  DIVERT
4859          KM    Divert 217 cfs into pipe (west).
4860          DT   D60sP
4861          DI       0     100     217   10000
4862          DQ       0     100     217     217
              *

4863          KK   D60sW  DIVERT
4864          KM    Divert 28% of surface flow to south.
4865          DT   D60sS
4866          DI       0     100    1000   10000
4867          DQ       0      28     280    2800
              *

4868          KK   R60sW   ROUTE
4869          KM    Route surface flow west from Subbasin 60s to 64s.
4870          RS       3    FLOW      -1
4871          RC   0.050   0.016   0.050    2640  0.0008
4872          RX       0     0.8      32    78.4    81.6     128   159.2     160
4873          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4874          KK  BD60sP RETRIEVE
```

```
4875          KM    Retrieve diverted pipe flow from D60sP.
4876          DR   D60sP
              *

4877          KK   P60sW   ROUTE
4878          KM    Route pipe flow from subbasin 60s to subbasin 64s.
4879          RK    1150  0.0030   0.015            CIRC     6.2
              *

4880          KK   C60sW COMBINE
4881          KM    Combine hydrographs R60sW and P60sW.
4882          HC       2    1.87
              *

4883          KK     64s   BASIN
4884          KM    Subbasin at NEC of UPRR and Central
4885          BA   0.258
4886          LG    0.11    0.15    9.70    0.07      65
4887          UC   0.666   0.405
4888          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4889          UA     100
              *

4890          KK  BD64qS RETRIEVE
4891          KM    Retrieve diverted surface flow from D64qS.
4892          DR   D64qS
              *

4893          KK   R64qS   ROUTE
4894          KM    Route surface flow south from Subbasin 64q to 64s.
4895          RS       3    FLOW      -1
4896          RC   0.050   0.016   0.050    2480  0.0032
4897          RX       0    1.55      62   151.9   158.1     248  308.45     310
4898          RY       3       1     0.5       0       0     0.5       1       3
              *

4899          KK    C64s COMBINE
4900          KM    Combine flows of 64s, R64qS, and C60sW
4901          HC       3    2.54
              *

4902          KK    D64s  DIVERT
4903          KM    Divert 0.0 cfs into West Tunnel.
4904          KM    Assuming no connection to ADOT West Tunnel.
4905          DT  D64sPT
4906          DI       0     100    1000   10000
4907          DQ       0       0       0       0
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4908          KK   D64s1  DIVERT
4909          KM    Divert 327 cfs into storm drain.
4910          KM    600 cfs for two pipes combined but limited by D/S pipe capacity.
4911          DT   D64sP
4912          DI       0     100     327    1000   10000
4913          DQ       0     100     327     327     327
              *

4914          KK   D64sW  DIVERT
4915          KM    Divert 42% of surface flow to south.
4916          DT   D64sS
4917          DI       0     100    1000   10000
4918          DQ       0      42     420    4200
              *

4919          KK   R64sW   ROUTE
4920          KM    Route surface flow west from Subbasin 64s to 68s.
4921          RS       3    FLOW      -1
4922          RC   0.050   0.016   0.050    2280  0.0026
4923          RX       0     1.3      52   127.4   132.6     208   258.7     260
4924          RY       3       1     0.5       0       0     0.5       1       3
              *

4925          KK     68s   BASIN
4926          KM    Subbasin at NEC of UPRR and 7th Ave
4927          BA   0.236
4928          LG    0.12    0.25    5.20    0.35      60
4929          UC   0.694   0.432
4930          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4931          UA     100
              *

4932          KK  BD68qS RETRIEVE
```

```
4933          KM    Retrieve diverted surface flow from D68qS.
4934          DR   D68qS
              *

4935          KK   R68qS   ROUTE
4936          KM    Route surface flow south from Subbasin 68q to 68s.
4937          RS       3    FLOW      -1
4938          RC   0.050   0.016   0.050    2800  0.0024
4939          RX       0    1.25      50   122.5   127.5     200  248.75     250
4940          RY       3       1     0.5       0       0     0.5       1       3
              *

4941          KK    C68s COMBINE
4942          KM    Combine hydrographs 68s,R68qS, and R64sW
4943          HC       3    3.07
              *
1                                        HEC-1 INPUT                                                    PAGE138

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4944          KK    D68s  DIVERT
4945          KM    Divert 124 cfs into pipe (south).
4946          DT   D68sP
4947          DI       0     100     124   10000
4948          DQ       0     100     124     124
              *

4949          KK   D68sW  DIVERT
4950          KM    Divert 28% of surface flow to south.
4951          DT   D68sS
4952          DI       0     100    1000   10000
4953          DQ       0      28     280    2800
              *

4954          KK   R68sW   ROUTE
4955          KM    Route surface flow west from Subbasin 68s to 72s.
4956          RS       3    FLOW      -1
4957          RC   0.050   0.016   0.050    2640  0.0015
4958          RX       0    1.55      62   151.9   158.1     248  308.45     310
4959          RY       3       1     0.5       0       0     0.5       1       3
              *

4960          KK     72s   BASIN
4961          KM    Subbasin at NEC of UPRR and 15th Ave
4962          BA   0.283
4963          LG    0.16    0.15    9.70    0.06      35
4964          UC   0.732   0.441
4965          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4966          UA     100
              *

4967          KK  BD72qP RETRIEVE
4968          KM    Retrieve diverted pipe flow from D72qP.
4969          KM    Total pipe flow = 662 cfs
4970          DR   D72qP
              *

4971          KK  D72qP1  DIVERT
4972          KM    Divert flow into pipe (south).
4973          DT  D72qP2
4974          DI       0     662     700
4975          DQ       0     229     242
              *

4976          KK  P72qS1  ROUTE
4977          KM    Route pipe flow from 15th ave/Van Buren to subbasin 72s.
4978          RK    3000  0.0030   0.015            CIRC    8.00
              *
1                                        HEC-1 INPUT                                                    PAGE139

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4979          KK  B72qP2 RETRIEVE
4980          KM    Retrieve diverted pipe flow from D72qP2.
4981          DR  D72qP2
              *

4982          KK  P72qS2  ROUTE
4983          KM    Route pipe flow from subbasin 72q to subbasin 72s.
4984          RK    3000  0.0031   0.015            CIRC     6.3
              *

4985          KK  BD72qS RETRIEVE
4986          KM    Retrieve diverted surface flow from D72qS.
```

```
4987          DR   D72qS
              *

4988          KK   R72qS   ROUTE
4989          KM    Route surface flow south from Subbasin 72q to 72s.
4990          RS       4    FLOW      -1
4991          RC   0.050   0.016   0.050    3000  0.0024
4992          RX       0    1.25      50   122.5   127.5     200  248.75     250
4993          RY       3       1     0.5       0       0     0.5       1       3
              *

4994          KK   C72qS COMBINE
4995          KM    Combine hydrographs R72qS, P72qS2, and P72qS1.
4996          HC       3    3.13
              *

4997          KK    C72s COMBINE
4998          KM    COmbine flows of C72qS, 72s, and R68sW
4999          HC       3    4.68
              *

5000          KK    D72s  DIVERT
5001          KM    Divert 662 cfs into pipe (433 cfs + 229 cfs) (south).
5002          DT   D72sP
5003          DI       0     100     662   10000
5004          DQ       0     100     662     662
              *

5005          KK   D72sW  DIVERT
5006          KM    Divert 40% of surface flow to south.
5007          DT   D72sS
5008          DI       0     100    1000   10000
5009          DQ       0      40     400    4000
              *

5010          KK   R72sW   ROUTE
5011          KM    Route surface flow west from Subbasin 72s to 76s.
5012          RS       4    FLOW      -1
5013          RC   0.050   0.016   0.050    2640  0.0008
5014          RX       0     1.3      52   127.4   132.6     208   258.7     260
5015          RY       3       1     0.5       0       0     0.5       1       3
              *
                                        HEC-1 INPUT                                          PAGE140

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5016          KK     76s   BASIN
5017          KM    Subbasin at NEC of UPRR and 19th Ave
5018          BA   0.279
5019          LG    0.11    0.15    9.70    0.07      54
5020          UC   0.749   0.437
5021          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5022          UA     100
              *

5023          KK    S76s STORAGE
5024          KM    Online Retention Basin, 0.7 ac-ft.
5025          RS       1    STOR       0
5026          SV       0     0.7       2
5027          SE       0       2       4
5028          SS       2     100     2.7     1.5
              *

5029          KK  BD76qP RETRIEVE
5030          KM    Retrieve diverted pipe flow from D76qP.
5031          DR   D76qP
              *

5032          KK   P76qS   ROUTE
5033          KM    Route pipe flow from 19th ave/Van Buren to subbasin 76s.
5034          RK    2200  0.0031   0.015            CIRC    6.25
              *

5035          KK  BD76qS RETRIEVE
5036          KM    Retrieve diverted surface flow from D76qS.
5037          DR   D76qS
              *

5038          KK   R76qS   ROUTE
5039          KM    Route surface flow south from Subbasin 76q to 76s.
5040          RS       2    FLOW      -1
5041          RC   0.050   0.016   0.050    2480  0.0032
5042          RX       0    1.55      62   151.9   158.1     248  308.45     310
5043          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
5044          KK   C76qS COMBINE
5045          KM    Combine hydrographs P76qS and R76qS.
5046          HC       2   11.45
              *

5047          KK    C76s COMBINE
5048          KM    Combine hydrographs S76s, C76qS, and R72sW.
5049          HC       3   13.28
              *
1                                        HEC-1 INPUT                                                    PAGE141

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5050          KK    D76s  DIVERT
5051          KM    Divert 204 cfs into pipe (south).
5052          DT   D76sP
5053          DI       0     100     204   10000
5054          DQ       0     100     204     204
              *

5055          KK   D76sW  DIVERT
5056          KM    Divert 22% of surface flow to south.
5057          DT   D76sS
5058          DI       0     100    1000   10000
5059          DQ       0      22     220    2200
              *

5060          KK   R76sW   ROUTE
5061          KM    Route surface flow west from Subbasin 76s to 80q.
5062          RS       3    FLOW      -1
5063          RC   0.050   0.016   0.050    2290  0.0009
5064          RX       0    1.25      50   122.5   127.5     200  248.75     250
5065          RY       3       1     0.5       0       0     0.5       1       3
              *

5066          KK   CC80q COMBINE
5067          KM    COmbine flows of C80q and R76sW
5068          HC       2   14.17
              *

5069          KK    D80q  DIVERT
5070          KM    Divert 364 cfs into pipe (south).
5071          DT   D80qP
5072          DI       0     100     364   10000
5073          DQ       0     100     364     364
              *

5074          KK   D80qS  DIVERT
5075          KM    Divert 100% of surface flow to west because of the SPRR.
5076          DT   D80qW
5077          DI       0     100    1000   10000
5078          DQ       0     100    1000   10000
              *

5079          KK   R80qS   ROUTE
5080          KM    Route surface flow south from Subbasin 80q to 80t.
5081          RS       2    FLOW      -1
5082          RC   0.050   0.016   0.050    2900  0.0042
5083          RX       0    0.75      30    73.5    76.5     120  149.25     150
5084          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE142

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5085          KK  BD80qP RETRIEVE
5086          KM    Retrieve diverted pipe flow from D80qP.
5087          DR   D80qP
              *

5088          KK   P80qS   ROUTE
5089          KM    Route pipe flow from SPRR/I-17 to subbasin 80t.
5090          RK    2700  0.0030   0.015            CIRC    7.50
              *

5091          KK   C80qS COMBINE
5092          KM    Combine hydrographs R80qS and P80qS.
5093          HC       2   14.17
              *

5094          KK     52t   BASIN
5095          KM    Subbasin at NEC of Buckeye and 16th St
5096          BA   0.297
```

```
5097          LG    0.15    0.15    8.00    0.11      42
5098          UC   0.854   0.529
5099          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5100          UA     100
              *

5101          KK    S52t STORAGE
5102          KM    Online Retention Basin, 4 ac-ft.
5103          RS       1    STOR       0
5104          SV       0     1.6       4       7
5105          SE       0       2       4       6
5106          SS       4     100     2.7     1.5
              *

5107          KK  BD52sP RETRIEVE
5108          KM    Retrieve diverted pipe flow from D52sP.
5109          DR   D52sP
              *

5110          KK   P52sS   ROUTE
5111          KM    Route pipe flow from 16th st/SPRR to subbasin 52t.
5112          RK    2850  0.0139   0.015            CIRC    4.42
              *

5113          KK    C52t COMBINE
5114          KM    Combine hydrographs S52t and P52sS.
5115          HC       2    0.96
              *

5116          KK    D52t  DIVERT
5117          KM    Divert 281 cfs into pipe (south).
5118          DT   D52tP
5119          DI       0     100     281   10000
5120          DQ       0     100     281     281
              *
1                                        HEC-1 INPUT                                          PAGE143

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5121          KK   D52tW  DIVERT
5122          KM    Divert 41% of surface flow to south.
5123          DT   D52tS
5124          DI       0     100    1000   10000
5125          DQ       0      41     410    4100
              *

5126          KK   R52tW   ROUTE
5127          KM    Route surface flow west from Subbasin 52t to 56t.
5128          RS       3    FLOW      -1
5129          RC   0.050   0.016   0.050    2640  0.0023
5130          RX       0     0.5      20      49      51      80    99.5     100
5131          RY       3       1     0.5       0       0     0.5       1       3
              *

5132          KK     56t   BASIN
5133          KM    Subbasin at NEC of Buckeye and 12th St
5134          BA   0.179
5135          LG    0.12    0.15    8.80    0.08      57
5136          UC   0.745   0.583
5137          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5138          UA     100
              *

5139          KK  BD56sP RETRIEVE
5140          KM    Retrieve diverted pipe flow from D56sP.
5141          DR   D56sP
              *

5142          KK   P56sS   ROUTE
5143          KM    Route pipe flow from subbasin 56s to subbasin 56t.
5144          RK    2900  0.0030   0.015            CIRC    6.00
              *

5145          KK  BD56sS RETRIEVE
5146          KM    Retrieve diverted surface flow from D56sS.
5147          DR   D56sS
              *

5148          KK   R56sS   ROUTE
5149          KM    Route surface flow south from Subbasin 56s to 56t.
5150          RS       6    FLOW      -1
5151          RC   0.050   0.016   0.050    2900  0.0030
5152          RX       0     1.3      52   127.4   132.6     208   258.7     260
5153          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
5154          KK   C56sS COMBINE
5155          KM    Combine hydrographs R56sS and P56sS.
5156          HC       2    1.27
              *
                                        HEC-1 INPUT                                                    PAGE144

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5157          KK    C56t COMBINE
5158          KM    Combine hydrographs 56t, R52tW, and C56sS.
5159          HC       3    1.74
              *

5160          KK    D56t  DIVERT
5161          KM    Divert 612 cfs into pipe (south).
5162          DT   D56tP
5163          DI       0     100     612   10000
5164          DQ       0     100     612     612
              *

5165          KK   D56tW  DIVERT
5166          KM    Divert 35% of surface flow to south.
5167          DT   D56tS
5168          DI       0     100    1000   10000
5169          DQ       0      35     350    3500
              *

5170          KK   R56tW   ROUTE
5171          KM    Route surface flow west from Subbasin 56t to 60t.
5172          RS       2    FLOW      -1
5173          RC   0.050   0.016   0.050    2640  0.0023
5174          RX       0     0.5      20      49      51      80    99.5     100
5175          RY       3       1     0.5       0       0     0.5       1       3
              *

5176          KK     60t   BASIN
5177          KM    Subbasin at NEC of Buckeye and 7th St
5178          BA   0.328
5179          LG    0.17    0.15    8.00    0.11      42
5180          UC   0.881   0.592
5181          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5182          UA     100
              *

5183          KK    S60t STORAGE
5184          KM    Online Retention Basin, 0.7 ac-ft.
5185          RS       1    STOR       0
5186          SV       0     0.3     0.7     1.3
5187          SE       0       2       4       6
5188          SS       4     100     2.7     1.5
              *

5189          KK  BD60sS RETRIEVE
5190          KM    Retrieve diverted surface flow from D60sS.
5191          DR   D60sS
              *
1                                       HEC-1 INPUT                                                    PAGE145

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5192          KK   R60sS   ROUTE
5193          KM    Route surface flow south from Subbasin 60s to 60t.
5194          RS       3    FLOW      -1
5195          RC   0.050   0.016   0.050    2900  0.0035
5196          RX       0     1.3      52   127.4   132.6     208   258.7     260
5197          RY       3       1     0.5       0       0     0.5       1       3
              *

5198          KK    C60t COMBINE
5199          KM    Combine hydrographs R60sS, S60t and R56tW.
5200          HC       3    2.68
              *

5201          KK   D60tW  DIVERT
5202          KM    Divert 27% of surface flow to south.
5203          DT   D60tS
5204          DI       0     100    1000   10000
5205          DQ       0      27     270    2700
              *

5206          KK   R60tW   ROUTE
5207          KM    Route surface flow west from Subbasin 60t to 64t.
5208          RS       3    FLOW      -1
```

```
5209          RC   0.050   0.016   0.050    2640  0.0023
5210          RX       0    0.75      30    73.5    76.5     120  149.25     150
5211          RY       3       1     0.5       0       0     0.5       1       3
              *

5212          KK     64t   BASIN
5213          KM    Subbasin at NEC of Buckeye and Central
5214          BA   0.271
5215          LG    0.15    0.21    6.40    0.21      49
5216          UC   0.823   0.514
5217          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5218          UA     100
              *

5219          KK  BD64sP RETRIEVE
5220          KM    Retrieve diverted pipe flow from D64sP.
5221          DR   D64sP
              *

5222          KK   P64sS  ROUTE
5223          KM    Route pipe flow from subbasin 64s to subbasin 64t.
5224          KM    Two pipes equivalent D = 10'
5225          RK    2800  0.0035   0.015            CIRC    10.0
              *

5226          KK  BD64sS RETRIEVE
5227          KM    Retrieve diverted surface flow from D64sS.
5228          DR   D64sS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5229          KK   R64sS   ROUTE
5230          KM    Route surface flow south from Subbasin 64s to 64t.
5231          RS       3    FLOW      -1
5232          RC   0.050   0.016   0.050    2900  0.0035
5233          RX       0     1.3      52   127.4   132.6     208   258.7     260
5234          RY       3       1     0.5       0       0     0.5       1       3
              *

5235          KK   C64sS COMBINE
5236          KM    Combine hydrographs R64sS and P64sS.
5237          HC       2    2.54
              *

5238          KK    C64t COMBINE
5239          KM    Combine flows of 64t, C64sS, and R60tW
5240          HC       3    3.61
              *

5241          KK    D64t  DIVERT
5242          KM    Divert 0.0 cfs into ADOT West Tunnel (assuming no connection).
5243          DT  D64tPT
5244          DI       0     100    1000   10000
5245          DQ       0       0       0       0
              *

5246          KK   D64t1  DIVERT
5247          KM    Divert 375 (327+48) cfs into pipes (south).
5248          DT   D64tP
5249          DI       0     100     375   10000
5250          DQ       0     100     375     375
              *

5251          KK   D64tW  DIVERT
5252          KM    Divert 44% of surface flow to south.
5253          DT   D64tS
5254          DI       0     100    1000   10000
5255          DQ       0      44     440    4400
              *

5256          KK   R64tW   ROUTE
5257          KM    Route surface flow west from Subbasin 64t to 68t.
5258          RS       3    FLOW      -1
5259          RC   0.050   0.016   0.050    2640  0.0023
5260          RX       0     1.3      52   127.4   132.6     208   258.7     260
5261          RY       3       1     0.5       0       0     0.5       1       3
              *

5262          KK     68t   BASIN
5263          KM    Subbasin at NEC of Buckeye and 7th Ave
5264          BA   0.251
5265          LG    0.20    0.15    8.80    0.08      33
5266          UC   0.719   0.462
```

```
5267          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5268          UA     100
              *
1                                        HEC-1 INPUT                                          PAGE147

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5269          KK  BD68sP RETRIEVE
5270          KM    Retrieve diverted pipe flow from D68sP.
5271          DR   D68sP
              *

5272          KK   P68sS   ROUTE
5273          KM    Route pipe flow from 7th ave/SPRR to subbasin 68t.
5274          RK    2500  0.0030   0.015            CIRC    5.00
              *

5275          KK  BD68sS RETRIEVE
5276          KM    Retrieve diverted surface flow from D68sS.
5277          DR   D68sS
              *

5278          KK   R68sS   ROUTE
5279          KM    Route surface flow south from Subbasin 68s to 68t.
5280          RS       3    FLOW      -1
5281          RC   0.050   0.016   0.050    2600  0.0035
5282          RX       0     1.3      52   127.4   132.6     208   258.7     260
5283          RY       3       1     0.5       0       0     0.5       1       3
              *

5284          KK   C68sS COMBINE
5285          KM    Combine hydrographs R68sS and P68sS.
5286          HC       2    3.07
              *

5287          KK    C68t COMBINE
5288          KM    Combine flows of 68t, C68sS, and R64tW
5289          HC       3    4.39
              *

5290          KK    D68t  DIVERT
5291          KM    Divert 124 cfs into pipe (south).
5292          DT   D68tP
5293          DI       0     100     124   10000
5294          DQ       0     100     124     124
              *

5295          KK   D68tW  DIVERT
5296          KM    Divert 46% of surface flow to south.
5297          DT   D68tS
5298          DI       0     100    1000   10000
5299          DQ       0      46     460    4600
              *

5300          KK   R68tW   ROUTE
5301          KM    Route surface flow west from Subbasin 68t to 72t.
5302          RS       2    FLOW      -1
5303          RC   0.050   0.016   0.050    2640  0.0023
5304          RX       0    1.05      42   102.9   107.1     168  208.95     210
5305          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                          PAGE148

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5306          KK     72t   BASIN
5307          KM    Subbasin at NEC of Buckeye and 15th Ave
5308          BA   0.222
5309          LG    0.21    0.15    9.70    0.06      31
5310          UC   0.783   0.638
5311          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5312          UA     100
              *

5313          KK  BD72sS RETRIEVE
5314          KM    Retrieve diverted surface flow from D72sS.
5315          DR   D72sS
              *

5316          KK   R72sS   ROUTE
5317          KM    Route surface flow south from Subbasin 72s to 72t.
5318          RS       2    FLOW      -1
5319          RC   0.050   0.016   0.050    2400  0.0051
5320          RX       0    1.05      42   102.9   107.1     168  208.95     210
```

```
5321          RY       3       1     0.5       0       0     0.5       1       3
              *

5322          KK  BD72sP RETRIEVE
5323          KM    Retrieve diverted pipe flow from D72sP.
5324          DR   D72sP
              *

5325          KK  D72sP1  DIVERT
5326          KM    Divert flow into pipe (south).
5327          DT  D72sP2
5328          DI       0     662     700
5329          DQ       0     229     242
              *

5330          KK  P72sS1  ROUTE
5331          KM    Route pipe flow from subbasin 72s to subbasin 72t.
5332          RK    2350  0.0030   0.015            CIRC    8.00
              *

5333          KK  B72sP2 RETRIEVE
5334          KM    Retrieve diverted pipe flow from D72sP2.
5335          DR  D72sP2
              *

5336          KK  P72sS2  ROUTE
5337          KM    Route pipe flow from subbasin 72s to subbasin 72t.
5338          RK    2350  0.0031   0.015            CIRC     6.3
              *
1                                        HEC-1 INPUT                                                    PAGE149

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5339          KK   C72sS COMBINE
5340          KM    Combine flow of R72sS, P72sS1, and P72sS2
5341          HC       3    4.68
              *

5342          KK    C72t COMBINE
5343          KM    Combine flows of C72sS, 72s, and R68tW
5344          HC       3    6.23
              *

5345          KK    D72t  DIVERT
5346          KM    Divert 714 cfs into pipe (433 cfs + 281 cfs) (south).
5347          DT   D72tP
5348          DI       0     100     714   10000
5349          DQ       0     100     714     714
              *

5350          KK   D72tW  DIVERT
5351          KM    Divert 53% of surface flow to south.
5352          DT   D72tS
5353          DI       0     100    1000   10000
5354          DQ       0      53     530    5300
              *

5355          KK   R72tW   ROUTE
5356          KM    Route surface flow west from Subbasin 72t to 76t.
5357          RS       3    FLOW      -1
5358          RC   0.050   0.016   0.050    2640  0.0015
5359          RX       0     1.3      52   127.4   132.6     208   258.7     260
5360          RY       3       1     0.5       0       0     0.5       1       3
              *

5361          KK     76t   BASIN
5362          KM    Subbasin at NEC of Buckeye and 19th Ave
5363          BA   0.272
5364          LG    0.19    0.15    9.70    0.06      36
5365          UC   0.802   0.529
5366          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5367          UA     100
              *

5368          KK  BD76sP RETRIEVE
5369          KM    Retrieve diverted pipe flow from D76sP.
5370          DR   D76sP
              *

5371          KK   P76sS   ROUTE
5372          KM    Route pipe flow from 19th ave/SPRR to subbasin 76t.
5373          RK    3000  0.0031   0.015            CIRC    6.00
              *
1                                        HEC-1 INPUT                                                    PAGE150
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5374          KK  BD76sS RETRIEVE
5375          KM    Retrieve diverted surface flow from D76sS.
5376          DR   D76sS
              *

5377          KK   R76sS   ROUTE
5378          KM    Route surface flow south from Subbasin 76s to 76t.
5379          RS       3    FLOW      -1
5380          RC   0.050   0.016   0.050    2800  0.0033
5381          RX       0     0.8      32    78.4    81.6     128   159.2     160
5382          RY       3       1     0.5       0       0     0.5       1       3
              *

5383          KK   C76sS COMBINE
5384          KM    Combine hydrographs R76sS and P76sS.
5385          HC       2   13.28
              *

5386          KK    C76t COMBINE
5387          KM    Combine hydrographs C76sS, 76t, and R72tW.
5388          HC       3   15.10
              *

5389          KK    D76t  DIVERT
5390          KM    Divert 297 cfs into pipe (south) (249 cfs + 48 cfs).
5391          DT   D76tP
5392          DI       0     100     297   10000
5393          DQ       0     100     297     297
              *

5394          KK   D76tW  DIVERT
5395          KM    Divert 53% of surface flow to south.
5396          DT   D76tS
5397          DI       0     100    1000   10000
5398          DQ       0      53     530    5300
              *

5399          KK   R76tW   ROUTE
5400          KM    Route surface flow west from Subbasin 76t to 80t.
5401          RS       3    FLOW      -1
5402          RC   0.050   0.016   0.050    2640  0.0015
5403          RX       0    1.55      62   151.9   158.1     248  308.45     310
5404          RY       3       1     0.5       0       0     0.5       1       3
              *

5405          KK     80t   BASIN
5406          KM    Subbasin at NEC of Buckeye and I-17
5407          BA   0.252
5408          LG    0.19    0.25    5.80    0.24      35
5409          UC   0.755   0.537
5410          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5411          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5412          KK    C80t COMBINE
5413          KM    Combine flows of 80t, c80qS, and R76tW
5414          HC       3   16.24
              *

5415          KK    D80t  DIVERT
5416          KM    Divert 364 cfs into pipe (south).
5417          DT   D80tP
5418          DI       0     100     364   10000
5419          DQ       0     100     364     364
              *

5420          KK   R80tS   ROUTE
5421          KM    Route surface flow south from Subbasin 80t to 8ou.
5422          RS       2    FLOW      -1
5423          RC   0.050   0.016   0.050    2100  0.0048
5424          RX       0       1      40      98     102     160     199     200
5425          RY       3       1     0.5       0       0     0.5       1       3
              *

5426          KK     52u   BASIN
5427          KM    Subbasin at NEC of I-17 and 16th St
5428          BA   0.391
5429          LG    0.27    0.25    4.80    0.34      13
5430          UC   0.969   0.561
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5431          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5432          UA     100
              *

5433          KK  BD52tS RETRIEVE
5434          KM    Retrieve diverted surface flow from D52tS.
5435          DR   D52tS
              *

5436          KK   R52tS   ROUTE
5437          KM    Route surface flow south from Subbasin 52t to 52u.
5438          RS       5    FLOW      -1
5439          RC   0.050   0.016   0.050    3530  0.0023
5440          RX       0     0.8      32    78.4    81.6     128   159.2     160
5441          RY       3       1     0.5       0       0     0.5       1       3
              *

5442          KK    C52u COMBINE
5443          KM    Combine hydrographs R52tS and 52u.
5444          HC       2    1.35
              *

5445          KK    S52u STORAGE
5446          KM    Online detention basin, 68 ac-ft.
5447          RS       1    STOR       0
5448          SV       0       8      21      35      50      68      90
5449          SE       0       2       4       6       8      10      12
5450          SL     1.0   12.56    0.62     0.5
5451          SS      10     200     2.7     1.5
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5452          KK  BD52tP RETRIEVE
5453          KM    Retrieve diverted pipe flow from D52tP.
5454          DR   D52tP
              *

5455          KK   P52tS   ROUTE
5456          KM    Route pipe flow from 16th st/Buckeye to subbasin 52u.
5457          RK    3550  0.0038   0.015            CIRC    6.50
              *

5458          KK   CC52u COMBINE
5459          KM    Combine hydrographs S52u and P52tS.
5460          HC       2    1.35
              *

5461          KK    D52u  DIVERT
5462          KM    Divert 281 cfs into pipe (south).
5463          DT   D52uP
5464          DI       0     100     281   10000
5465          DQ       0     100     281     281
              *

5466          KK   D52uW  DIVERT
5467          KM    Divert 32% of surface flow to south.
5468          DT   D52uS
5469          DI       0     100    1000   10000
5470          DQ       0      32     320    3200
              *

5471          KK   R52uW   ROUTE
5472          KM    Route surface flow west from Subbasin 52u to 56u.
5473          RS       2    FLOW      -1
5474          RC   0.050   0.016   0.050    2660  0.0015
5475          RX       0     0.8      32    78.4    81.6     128   159.2     160
5476          RY       3       1     0.5       0       0     0.5       1       3
              *

5477          KK     56u   BASIN
5478          KM    Subbasin at NEC of I-17 and 12th St
5479          BA   0.326
5480          LG    0.22    0.25    4.70    0.38      23
5481          UC   1.037   0.641
5482          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5483          UA     100
              *

5484          KK  BD56tS RETRIEVE
5485          KM    Retrieve diverted surface flow from D56tS.
5486          DR   D56tS
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5487          KK   R56tS   ROUTE
5488          KM    Route surface flow south from Subbasin 56t to 56u.
5489          RS       2    FLOW      -1
5490          RC   0.050   0.016   0.050    3400  0.0017
5491          RX       0     1.3      52   127.4   132.6     208   258.7     260
5492          RY       3       1     0.5       0       0     0.5       1       3
              *

5493          KK    C56u COMBINE
5494          KM    Combine hydrographs R56tS, 56u, and R52uW.
5495          HC       3    2.46
              *

5496          KK    S56u STORAGE
5497          KM    Regional Online Detention Basin, 4 ac-ft.
5498          RS       1    STOR       0
5499          SV       0       4      12
5500          SE       0       2       4
5501          SL    0.33   0.785    0.62     0.5
5502          SS       2     400     2.7     1.5
              *

5503          KK  BD56tP RETRIEVE
5504          KM    Retrieve diverted pipe flow from D56tP.
5505          DR   D56tP
              *

5506          KK   P56tS   ROUTE
5507          KM    Route pipe flow from 12th st/Buckeye to subbasin 56u.
5508          RK    3300  0.0060   0.015            CIRC    8.00
              *

5509          KK   CC56u COMBINE
5510          KM    Combine hydrographs S56u and P56tS.
5511          HC       2    2.46
              *

5512          KK    D56u  DIVERT
5513          KM    Divert 612 cfs into pipe (south).
5514          DT   D56uP
5515          DI       0     100     612   10000
5516          DQ       0     100     612     612
              *

5517          KK   D56uW  DIVERT
5518          KM    Divert 21% of surface flow to south.
5519          DT   D56uS
5520          DI       0     100    1000   10000
5521          DQ       0      21     210    2100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5522          KK   R56uW   ROUTE
5523          KM    Route surface flow west from Subbasin 56u to 60u.
5524          RS       6    FLOW      -1
5525          RC   0.050   0.016   0.050    2660  0.0010
5526          RX       0     0.8      32    78.4    81.6     128   159.2     160
5527          RY       3       1     0.5       0       0     0.5       1       3
              *

5528          KK     60u   BASIN
5529          KM    Subbasin at NEC of I-17 and 7th St
5530          BA   0.285
5531          LG    0.44    0.25    6.00    0.22      22
5532          UC   0.925   0.586
5533          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5534          UA     100
              *

5535          KK  BD60tS RETRIEVE
5536          KM    Retrieve diverted surface flow from D60tS.
5537          DR   D60tS
              *

5538          KK   R60tS   ROUTE
5539          KM    Route surface flow south from Subbasin 60t to 60u.
5540          RS       5    FLOW      -1
5541          RC   0.050   0.016   0.050    3175  0.0013
5542          RX       0    0.75      30    73.5    76.5     120  149.25     150
```

```
5543          RY       3       1     0.5       0       0     0.5       1       3
              *

5544          KK    C60u COMBINE
5545          KM    Combine hydrographs R60tS, 60u, and R56uW.
5546          HC       3    3.68
              *

5547          KK    S60u STORAGE
5548          KM    Regional online detention, 1 ac-ft.
5549          RS       1    STOR       0
5550          SV       0     0.3     0.6       1       2
5551          SE       0       2       4       6       8
5552          SQ       0      45      90     145    1000
              *

5553          KK    D60u  DIVERT
5554          KM    Divert 124 cfs into pipe (south).
5555          DT   D60uP
5556          DI       0     100     124   10000
5557          DQ       0     100     124     124
              *
1                                        HEC-1 INPUT                                                    PAGE155

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5558          KK   D60uW  DIVERT
5559          KM    Divert 33% of surface flow to south.
5560          DT   D60uS
5561          DI       0     100    1000   10000
5562          DQ       0      33     330    3300
              *

5563          KK   R60uW   ROUTE
5564          KM    Route surface flow west from Subbasin 60u to 64u.
5565          RS       4    FLOW      -1
5566          RC   0.050   0.016   0.050    2640  0.0015
5567          RX       0    0.75      30    73.5    76.5     120  149.25     150
5568          RY       3       1     0.5       0       0     0.5       1       3
              *

5569          KK     64u   BASIN
5570          KM    Subbasin at NEC of I-17 and Central
5571          BA   0.296
5572          LG    0.19    0.23    6.20    0.21      36
5573          UC   0.905   0.543
5574          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5575          UA     100
              *

5576          KK  BD64tP RETRIEVE
5577          KM    Retrieve diverted pipe flow from D64tP.
5578          DR   D64tP
              *

5579          KK   P64tS  ROUTE
5580          KM    Route pipe flow from subbasin 64t to subbasin 64u.
5581          KM    Two pipe equivalent D = 8.5'
5582          RK    3100  0.0035   0.015            CIRC     8.5
              *

5583          KK  BD64tS RETRIEVE
5584          KM    Retrieve diverted surface flow from D64tS.
5585          DR   D64tS
              *

5586          KK   R64tS   ROUTE
5587          KM    Route surface flow south from Subbasin 64t to 64u.
5588          RS       3    FLOW      -1
5589          RC   0.050   0.016   0.050    3100  0.0035
5590          RX       0     1.3      52   127.4   132.6     208   258.7     260
5591          RY       3       1     0.5       0       0     0.5       1       3
              *

5592          KK   C64tS COMBINE
5593          KM    Combine hydrographs R64tS and P64tS.
5594          HC       2    3.61
              *
1                                        HEC-1 INPUT                                                    PAGE156

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5595          KK    C64u COMBINE
5596          KM    Combine hydrographs C64tS, 64u, and R60uW.
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```
5597          HC       3    4.91
              *

5598          KK    D64u  DIVERT
5599          KM    Divert 0.0 cfs into ADOT west Tunnel (assuming no connection).
5600          DT  D64uPT
5601          DI       0     100    1000   10000
5602          DQ       0       0       0       0
              *

5603          KK   D64u1  DIVERT
5604          KM    Divert 375 cfs into pipe (south).
5605          DT   D64uP
5606          DI       0     100     375    1000   10000
5607          DQ       0     100     375     375     375
              *

5608          KK   D64uW  DIVERT
5609          KM    Divert 25% of surface flow to south.
5610          DT   D64uS
5611          DI       0     100    1000   10000
5612          DQ       0      25     250    2500
              *

5613          KK   R64uW   ROUTE
5614          KM    Route surface flow west from Subbasin 64u to 68u.
5615          RS       3    FLOW      -1
5616          RC   0.050   0.016   0.050    2650  0.0015
5617          RX       0     1.3      52   127.4   132.6     208   258.7     260
5618          RY       3       1     0.5       0       0     0.5       1       3
              *

5619          KK     68u   BASIN
5620          KM    Subbasin at NEC of I-17 and 7th Ave
5621          BA   0.280
5622          LG    0.20    0.15    8.80    0.08      32
5623          UC   0.886   0.559
5624          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5625          UA     100
              *

5626          KK  BD68tP RETRIEVE
5627          KM    Retrieve diverted pipe flow from D68tP.
5628          DR   D68tP
              *

5629          KK   P68tS   ROUTE
5630          KM    Route pipe flow from subbasin 68t to subbasin 68u.
5631          RK    2750  0.0030   0.015            CIRC    5.00
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5632          KK  BD68tS RETRIEVE
5633          KM    Retrieve diverted surface flow from D68tS.
5634          DR   D68tS
              *

5635          KK   R68tS   ROUTE
5636          KM    Route surface flow south from Subbasin 68t to 68u.
5637          RS       2    FLOW      -1
5638          RC   0.050   0.016   0.050    2800  0.0035
5639          RX       0     1.3      52   127.4   132.6     208   258.7     260
5640          RY       3       1     0.5       0       0     0.5       1       3
              *

5641          KK   C68tS COMBINE
5642          KM    Combine hydrographs R68tS and P68tS.
5643          HC       2    4.39
              *

5644          KK    C68u COMBINE
5645          KM    Combine hydrographs 68u, R64uW, and C68tS.
5646          HC       3    5.97
              *

5647          KK    D68u  DIVERT
5648          KM    Divert 146 cfs into pipe (south).
5649          DT   D68uP
5650          DI       0     100     146   10000
5651          DQ       0     100     146     146
              *

5652          KK   D68uW  DIVERT
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```
5653          KM    Divert 21% of surface flow to south.
5654          DT   D68uS
5655          DI       0     100    1000   10000
5656          DQ       0      21     210    2100
              *

5657          KK   R68uW   ROUTE
5658          KM    Route surface flow west from Subbasin 68u to 72u.
5659          RS       3    FLOW      -1
5660          RC   0.050   0.016   0.050    2640  0.0015
5661          RX       0     0.8      32    78.4    81.6     128   159.2     160
5662          RY       3       1     0.5       0       0     0.5       1       3
              *

5663          KK     72u   BASIN
5664          KM    Subbasin at NEC of I-17 and 15th Ave
5665          BA   0.257
5666          LG    0.27    0.15    9.70    0.06      24
5667          UC   0.848   0.548
5668          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5669          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5670          KK    C72u COMBINE
5671          KM    Combine hydrographs 72u and R68uW.
5672          HC       2    6.23
              *

5673          KK  BD72tP RETRIEVE
5674          KM    Retrieve diverted pipe flow from D72tP.
5675          DR   D72tP
              *

5676          KK  D72tP1  DIVERT
5677          KM    Divert flow into pipe (south).
5678          DT  D72tP2
5679          DI       0     714     800
5680          DQ       0     281     315
              *

5681          KK  P72tS1  ROUTE
5682          KM    Route pipe flow from subbasin 72t to subbasin 72u.
5683          RK    2700  0.0030   0.015            CIRC     8.0
              *

5684          KK  B72tP2 RETRIEVE
5685          KM    Retrieve diverted pipe flow from D72tP2.
5686          DR  D72tP2
              *

5687          KK  P72tS2  ROUTE
5688          KM    Route pipe flow from subbasin 72t to subbasin 72u.
5689          RK    2700  0.0031   0.015            CIRC     6.8
              *

5690          KK   B72tS RETRIEVE
5691          KM    Retrieve diverted surface flow from D72tS.
5692          DR   D72tS
              *

5693          KK   R72tS   ROUTE
5694          KM    Route surface flow south from Subbasin 72t to 72u.
5695          RS       3    FLOW      -1
5696          RC   0.050   0.016   0.050    2820  0.0021
5697          RX       0     2.3      92   225.4   234.6     368   457.7     460
5698          RY       3       1     0.5       0       0     0.5       1       3
              *

5699          KK   C72tS COMBINE
5700          KM    Combine hydrographs R72tS, P72tS1, and P72tS2.
5701          HC       3    6.23
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5702          KK   CC72u COMBINE
5703          KM    Combine hydrographs C72tS and C72u.
5704          HC       2    8.06
              *
```

```
5705          KK    D72u  DIVERT
5706          KM    Divert 714 cfs into pipe (south) (433 cfs + 281 cfs).
5707          DT   D72uP
5708          DI       0     100     714   10000
5709          DQ       0     100     714     714
              *

5710          KK   D72uW  DIVERT
5711          KM    Divert 31% of surface flow to south.
5712          DT   D72uS
5713          DI       0     100    1000   10000
5714          DQ       0      31     310    3100
              *

5715          KK   R72uW   ROUTE
5716          KM    Route surface flow west from Subbasin 72u to 76u.
5717          RS       3    FLOW      -1
5718          RC   0.050   0.016   0.050    2640  0.0015
5719          RX       0    1.05      42   102.9   107.1     168  208.95     210
5720          RY       3       1     0.5       0       0     0.5       1       3
              *

5721          KK  BD76tP RETRIEVE
5722          KM    Retrieve diverted pipe flow from D76tP.
5723          DR   D76tP
              *

5724          KK  D76tP1  DIVERT
5725          KM    Divert 297 cfs into pipe (south).
5726          DT  D76tP2
5727          DI       0     297     300
5728          DQ       0      48      49
              *

5729          KK  P76tS1  ROUTE
5730          KM    Route pipe flow from subbasin 76t to subbasin 76u.
5731          RK    3000  0.0030   0.015            CIRC    6.50
              *

5732          KK  B76tP2 RETRIEVE
5733          KM    Retrieve diverted pipe flow from D76tP2.
5734          DR  D76tP2
              *
1                                        HEC-1 INPUT                                                    PAGE160

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5735          KK  P76tS2  ROUTE
5736          KM    Route pipe flow from subbasin 76t to subbasin 76u.
5737          RK    3000  0.0030   0.015            CIRC     3.5
              *

5738          KK  BD76tS RETRIEVE
5739          KM    Retrieve diverted surface flow from D76tS.
5740          DR   D76tS
              *

5741          KK   R76tS   ROUTE
5742          KM    Route surface flow south from Subbasin 76t to 76u.
5743          RS       3    FLOW      -1
5744          RC   0.050   0.016   0.050    2665  0.0015
5745          RX       0     1.3      52   127.4   132.6     208   258.7     260
5746          RY       3       1     0.5       0       0     0.5       1       3
              *

5747          KK   C76tS COMBINE
5748          KM    Combine hydrographs R76tS, P76tS1, and P76tS2.
5749          HC       3   15.10
              *

5750          KK     76u   BASIN
5751          KM    Subbasin at NEC of I-17 and 19th Ave
5752          BA   0.283
5753          LG    0.32    0.15    9.70    0.06      23
5754          UC   0.882   0.531
5755          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5756          UA     100
              *

5757          KK    C76u COMBINE
5758          KM    Combine hydrographs 76u, C76tS, and R72uW.
5759          HC       3   17.22
              *

5760          KK    D76u  DIVERT
```

```
5761          KM    Divert 297 cfs into pipe (south) (48 cfs to 76v, 248 cfs to 80v).
5762          DT   D76uP
5763          DI       0      100      297   10000
5764          DQ       0      100      297     297
              *

5765          KK   D76uW  DIVERT
5766          KM    Divert 0.0% of surface flow to south.
5767          DT   D76uS
5768          DI       0      100     1000   10000
5769          DQ       0      0.0      0.0     0.0
              *
1                                        HEC-1 INPUT                                                    PAGE161

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5770          KK   R76uW   ROUTE
5771          KM    Route surface flow west from Subbasin 76u to 80u.
5772          RS       2    FLOW      -1
5773          RC   0.050   0.016   0.050    2370  0.0025
5774          RX       0    0.75      30    73.5    76.5     120  149.25     150
5775          RY       3       1     0.5       0       0     0.5       1       3
              *

5776          KK     80u   BASIN
5777          KM    Subbasin at NEC of Durango and I-17
5778          BA   0.249
5779          LG    0.16    0.15    8.00    0.11      46
5780          UC   0.720   0.493
5781          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5782          UA     100
              *

5783          KK    C80u COMBINE
5784          KM    Combine flows of 80u, R80tS, and R76uW
5785          HC       3   18.61
              *

5786          KK  BD80tP RETRIEVE
5787          KM    Retrieve diverted pipe flow from D80tP.
5788          DR   D80tP
              *

5789          KK   P80tS   ROUTE
5790          KM    Route pipe flow from I-17/Buckeye to subbasin 80u.
5791          RK    2100  0.0030   0.015            CIRC    7.50
              *

5792          KK  BD80qW RETRIEVE
5793          KM    Retrieve diverted flow from D80qW.
5794          DR   D80qW
              *

5795          KK   CC80u COMBINE
5796          KM    Combine flows of C80u,D80qW, and P80tS
5797          HC       3   18.61
              *

5798          KK   S-I17 STORAGE
5799          KM    I-17 Depressed Segment and East Durango Curve ponding Areas
5800          KM    Online Regional Detention Basin, 320 ac-ft.
5801          RS       1    STOR       0
5802          SV       0       6      29      45     112     169     320     360     396     425
5803          SE       0       2       6       8      12      14      16      17    17.6      18
5804          SQ     0.0     183     316     365     448     483     517     674    2224    4564
              *
1                                        HEC-1 INPUT                                                    PAGE162

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5805          KK    D80u  DIVERT
5806          KM    Divert 509 cfs into pipe (west).
5807          DT   D80uP
5808          DI       0      100      509   10000
5809          DQ       0      100      509     509
              *

5810          KK   R80uW   ROUTE
5811          KM    Route surface flow west from Subbasin 80u to 84u.
5812          RS       2    FLOW      -1
5813          RC   0.050   0.016   0.050    2760  0.0014
5814          RX       0     1.0      40      98     102     160     199     200
5815          RY       5       1     0.5       0       0     0.5       1       5
              *
```

```
5816          KK     84t   BASIN
5817          KM    Subbasin at NEC of Buckeye and 27th Ave
5818          BA   0.273
5819          LG    0.14    0.15    7.60    0.13      55
5820          UC   0.803   0.632
5821          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5822          UA     100
              *

5823          KK   P84tN  INFLOW
5824          KM   Inflow from storm drain north of SPRR along 27th Avenue.
5825          KM   Maximum flow 252 cfs.
5826          IN      60
5827          BA     0.5
5828          QI     0.1       8      10      17     252      74      21       5       2     0.1
              *

5829          KK    C84t COMBINE
5830          KM    Combine hydrographs P84tN and 80t.
5831          HC       2    0.77
              *

5832          KK    D84t  DIVERT
5833          KM    Divert 252 cfs into pipe (south).
5834          DT   D84tP
5835          DI       0     100     252   10000
5836          DQ       0     100     252     252
              *

5837          KK   D84tS  DIVERT
5838          KM    Divert 13% of surface flow to west.
5839          DT   D84tW
5840          DI       0     100    1000   10000
5841          DQ       0      13     130    1300
              *
1                                   HEC-1 INPUT                                          PAGE163

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5842          KK   R84tS   ROUTE
5843          KM    Route surface flow south from Subbasin 84t to 84u.
5844          RS       2    FLOW      -1
5845          RC   0.050   0.016   0.050    2760  0.0018
5846          RX       0    1.05      42   102.9   107.1     168  208.95     210
5847          RY       3       1     0.5       0       0     0.5       1       3
              *

5848          KK     84u   BASIN
5849          KM    Subbasin at NEC of Durango and 27th Ave
5850          BA   0.263
5851          LG    0.61    0.15    8.00    0.11      41
5852          UC   0.879   0.569
5853          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5854          UA     100
              *

5855          KK    C84u COMBINE
5856          KM    Combine hydrographs R84tS, 84u, and R80uW.
5857          HC       3    9.04
              *

5858          KK    S84u STORAGE
5859          KM    Online Regional Detention Basin, 3 ac-ft.
5860          RS       1    STOR       0
5861          SV       0       3      13
5862          SE       0       2       4
5863          SQ       0      30    5500
              *

5864          KK  BD84tP RETRIEVE
5865          KM    Retrieve diverted pipe flow from D84tP.
5866          DR   D84tP
              *

5867          KK   P84tS   ROUTE
5868          KM    Route pipe flow from I-17/Buckeye to subbasin 84u.
5869          RK    2650  0.0031   0.015            CIRC    6.50
              *

5870          KK   CC84u COMBINE
5871          KM    Combine hydrographs P84tS and S84u.
5872          HC       2    9.04
              *
```

```
5873          KK    D84u  DIVERT
5874          KM    Divert 252 cfs into pipe (south).
5875          DT   D84uP
5876          DI       0     100     252   10000
5877          DQ       0     100     252     252
              *
1                                   HEC-1 INPUT                                                    PAGE164

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5878          KK   D84uW  DIVERT
5879          KM    Divert 20% of surface flow to south.
5880          DT   D84uS
5881          DI       0     100    1000   10000
5882          DQ       0      20     200    2000
              *

5883          KK   R84uW   ROUTE
5884          KM    Route surface flow west from Subbasin 84u to 88u.
5885          RS       3    FLOW      -1
5886          RC   0.050   0.016   0.050    2760  0.0022
5887          RX       0    1.05      42   102.9   107.1     168  208.95     210
5888          RY       4       1     0.5       0       0     0.5       1       4
              *

5889          KK     88t   BASIN
5890          KM    Subbasin at NEC of Buckeye and 35th Ave
5891          BA   0.259
5892          LG    0.18    0.25    6.00    0.23      44
5893          UC   0.942   0.777
5894          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5895          UA     100
              *

5896          KK  BD84tW RETRIEVE
5897          KM    Retrieve diverted surface flow from D84tW.
5898          DR   D84tW
              *

5899          KK   R84tW   ROUTE
5900          KM    Route surface flow west from Subbasin 84t to 88t.
5901          RS       4    FLOW      -1
5902          RC   0.050   0.016   0.050    2760  0.0011
5903          RX       0     0.5      20      49      51      80    99.5     100
5904          RY       3       1     0.5       0       0     0.5       1       3
              *

5905          KK    C88t COMBINE
5906          KM    Combine hydrographs 88t and R84tW.
5907          HC       2    1.03
              *

5908          KK   D88tS  DIVERT
5909          KM    Divert 30% of surface flow to west.
5910          DT   D88tW
5911          DI       0     100    1000   10000
5912          DQ       0      30     300    3000
              *
1                                   HEC-1 INPUT                                                    PAGE165

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5913          KK   R88tS   ROUTE
5914          KM    Route surface flow south from Subbasin 88t to 88u.
5915          RS       3    FLOW      -1
5916          RC   0.050   0.016   0.050    2760  0.0036
5917          RX       0    1.05      42   102.9   107.1     168  208.95     210
5918          RY       3       1     0.5       0       0     0.5       1       3
              *

5919          KK     88u   BASIN
5920          KM    Subbasin at NEC of Durango and 35th Ave
5921          BA   0.250
5922          LG    0.31    0.15    8.40    0.09      40
5923          UC   0.842   0.700
5924          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5925          UA     100
              *

5926          KK    C88u COMBINE
5927          KM    Combine hydrographs 88u, R84uW, and R88tS.
5928          HC       3    9.55
              *
```

```
5929          KK    D88u  DIVERT
5930          KM    Divert 36 cfs into pipe (west).
5931          DT   D88uP
5932          DI       0      36    1000   10000
5933          DQ       0      36      36      36
              *

5934          KK   D88uW  DIVERT
5935          KM    Divert 76% of surface flow to south.
5936          DT   D88uS
5937          DI       0     100    1000   10000
5938          DQ       0      76     760    7600
              *

5939          KK   R88uW   ROUTE
5940          KM    Route surface flow west from Subbasin 88u to 92u.
5941          RS       2    FLOW      -1
5942          RC   0.050   0.016   0.050    2760  0.0014
5943          RX       0    0.75      30    73.5    76.5     120  149.25     150
5944          RY       3       1     0.5       0       0     0.5       1       3
              *

5945          KK  BD88uP RETRIEVE
5946          KM    Retrieve diverted pipe flow from D88uP.
5947          DR   D88uP
              *
1                                          HEC-1 INPUT                                                    PAGE166

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5948          KK   P88uW   ROUTE
5949          KM    Route pipe flow from subbasin 88u to subbasin 92u.
5950          RK    2600  0.0039   0.015            CIRC     3.0
              *

5951          KK   C88uW COMBINE
5952          KM    Combine hydrographs R88uW and P88uW.
5953          HC       2    9.55
              *

5954          KK     92t   BASIN
5955          KM    Subbasin at NEC of Buckeye and 43rd Ave
5956          BA   0.175
5957          LG    0.21    0.25    5.20    0.32      32
5958          UC   0.916   0.833
5959          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5960          UA     100
              *

5961          KK  BD88tW RETRIEVE
5962          KM    Retrieve diverted surface flow from D88tW.
5963          DR   D88tW
              *

5964          KK   R88tW   ROUTE
5965          KM    Route surface flow west from Subbasin 88t to 92t.
5966          RS       3    FLOW      -1
5967          RC   0.050   0.016   0.050    1990   0.002
5968          RX       0    0.75      30    73.5    76.5     120  149.25     150
5969          RY       3       1     0.5       0       0     0.5       1       3
              *

5970          KK    C92t COMBINE
5971          KM    Combine hydrographs R88tW and 92t.
5972          HC       2    1.21
              *

5973          KK   R92tS   ROUTE
5974          KM    Route surface flow south from Subbasin 92t to 92u.
5975          RS       3    FLOW      -1
5976          RC   0.050   0.016   0.050    2760  0.0040
5977          RX       0     0.5      20      49      51      80    99.5     100
5978          RY       3       1     0.5       0       0     0.5       1       3
              *

5979          KK     92u   BASIN
5980          KM    Subbasin at NEC of Durango and 43rd Ave
5981          BA   0.249
5982          LG    0.16    0.25    6.00    0.23      44
5983          UC   0.828   0.689
5984          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5985          UA     100
              *
1                                          HEC-1 INPUT                                                    PAGE167
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5986          KK   P92uN  INFLOW
5987          KM   Inflow from storm drain north of Durango Street along 35th Avenue.
5988          KM   Maximum flow 141 cfs.
5989          IN      60
5990          BA     2.5
5991          QI     0.1       2       9      30     141      69      27       8       2     0.1
              *

5992          KK    C92u COMBINE
5993          KM    Combine flows of 92u, C88uW, P92uN, and R92tS
5994          HC       4   10.17
              *

5995          KK    D92u  DIVERT
5996          KM    Divert 201 cfs into pipe (south).
5997          DT   D92uP
5998          DI       0     100     201   10000
5999          DQ       0     100     201     201
              *

6000          KK   R92uS   ROUTE
6001          KM    Route surface flow south from Subbasin 92u to 92v.
6002          RS       1    FLOW      -1
6003          RC   0.050   0.016   0.050    1650  0.0048
6004          RX       0     0.5      20      49      51      80    99.5     100
6005          RY       3       1     0.5       0       0     0.5       1       3
              *

6006          KK   B92uP RETRIEVE
6007          KM    Retrieve diverted pipe flow from D92uP.
6008          DR   D92uP
              *

6009          KK   P92uS   ROUTE
6010          KM    Route pipe flow from subbasin 92u to subbasin 92v.
6011          RK    1500  0.0030   0.015            CIRC    6.00
              *

6012          KK   C92uS COMBINE
6013          KM    Combine hydrographs R92uS and P92uS.
6014          HC       2   10.17
              *

6015          KK     76v   BASIN
6016          KM    Subbasin at NEC of Lower Buckeye and 19th Ave
6017          BA   0.240
6018          LG    0.21    0.25    4.90    0.40      41
6019          UC   0.906   0.742
6020          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6021          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6022          KK   B76uP RETRIEVE
6023          KM    Retrieve diverted pipe flow from D76uP.
6024          DR   D76uP
              *

6025          KK  D76uP2  DIVERT
6026          KM    Divert 297 cfs into pipes (249 cfs to west, 48 cfs to south).
6027          DT  D76uP1
6028          DI       0     297    1000
6029          DQ       0     249     249
              *

6030          KK  P76uS2  ROUTE
6031          KM    Route pipe flow from 19th ave/I-17 to subbasin 76v.
6032          RK    2300  0.0030   0.015            CIRC    3.50
              *

6033          KK  BD76uS RETRIEVE
6034          KM    Retrieve diverted flow from D76uS.
6035          DR   D76uS
              *

6036          KK   R76uS   ROUTE
6037          KM    Route surface flow south from Subbasin 76u to 76v.
6038          RS       2    FLOW      -1
6039          RC   0.050   0.016   0.050    2640  0.0023
6040          RX       0     0.5      20      49      51      80    99.5     100
```

```
6041          RY       3       1     0.5       0       0     0.5       1       3
              *

6042          KK   C76uS COMBINE
6043          KM    Combine hydrographs P76uS2 and R76uS.
6044          HC       2   17.22
              *

6045          KK    C76v COMBINE
6046          KM    Combine hydrographs 76v and C76uS.
6047          HC       2    8.24
              *

6048          KK    D76v  DIVERT
6049          KM    Divert 109 cfs into pipe (south).
6050          DT   D76vP
6051          DI       0     100     109   10000
6052          DQ       0     100     109     109
              *

6053          KK   D76vW  DIVERT
6054          KM    Divert 53% of surface flow to south.
6055          DT   D76vS
6056          DI       0     100    1000   10000
6057          DQ       0      53     530    5300
              *
1                                   HEC-1 INPUT                                                    PAGE169

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6058          KK   R76vW   ROUTE
6059          KM    Route surface flow west from Subbasin 76v to 80v.
6060          RS       6    FLOW      -1
6061          RC   0.050   0.016   0.050    2570  0.0008
6062          RX       0     0.5      20      49      51      80    99.5     100
6063          RY       3       1     0.5       0       0     0.5       1       3
              *

6064          KK     80v   BASIN
6065          KM    Subbasin at NEC of Lower Buckeye and 23rd Ave
6066          BA   0.231
6067          LG    0.16    0.15    8.00    0.12      59
6068          UC   0.774   0.574
6069          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6070          UA     100
              *

6071          KK  B76uP1 RETRIEVE
6072          KM    Retrieve diverted pipe flow from D76uP1.
6073          DR  D76uP1
              *

6074          KK  P76uS1  ROUTE
6075          KM    Route pipe flow from subbasin 76u to subbasin 80v.
6076          RK    4000  0.0030   0.015            CIRC     6.5
              *

6077          KK    C80v COMBINE
6078          KM    COmbine flows of 80v, P76uS1, and R76vW
6079          HC       3    8.23
              *

6080          KK    D80v  DIVERT
6081          KM    Divert 249 cfs into pipe (southwest).
6082          DT   D80vP
6083          DI       0     100     249   10000
6084          DQ       0     100     249     249
              *

6085          KK   D80vW  DIVERT
6086          KM    Divert 56% of surface flow to south.
6087          DT   D80vS
6088          DI       0     100    1000   10000
6089          DQ       0      56     560    5600
              *

6090          KK   R80vW   ROUTE
6091          KM    Route surface flow west from Subbasin 80v to 84v.
6092          RS       8    FLOW      -1
6093          RC   0.050   0.016   0.050    2640  0.0004
6094          RX       0    1.25      50   122.5   127.5     200  248.75     250
6095          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                   HEC-1 INPUT                                                    PAGE170
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6096          KK     84v   BASIN
6097          KM    Subbasin at NEC of Lower Buckeye and 27th Ave
6098          BA   0.254
6099          LG    1.75    0.15    9.70    0.07      35
6100          UC   0.994   0.644
6101          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6102          UA     100
              *

6103          KK  BD80uP RETRIEVE
6104          KM    Retrieve diverted pipe flow from D80uP.
6105          DR   D80uP
              *

6106          KK   P80uS   ROUTE
6107          KM    Route pipe flow from subbasin 80u to subbasin 84v.
6108          RK    4000  0.0030   0.015            CIRC     8.5
              *

6109          KK    C84v COMBINE
6110          KM    Combine hydrographs 84v, P80uS, and R80vW.
6111          HC       3    8.73
              *

6112          KK  BD84uP RETRIEVE
6113          KM    Retrieve diverted pipe flow from D84uP.
6114          DR   D84uP
              *

6115          KK   P84uS   ROUTE
6116          KM    Route pipe flow from subbasin 84u to subbasin 84v.
6117          RK    2600  0.0030   0.015            CIRC   10.33
              *

6118          KK  BD84uS RETRIEVE
6119          KM    Retrieve diverted surface flow from D84uS.
6120          DR   D84uS
              *

6121          KK   R84uS   ROUTE
6122          KM    Route surface flow south from Subbasin 84u to 84v
6123          RS       3    FLOW      -1
6124          RC   0.050   0.016   0.050    2600  0.0023
6125          RX       0    0.75      30    73.5    76.5     120  149.25     150
6126          RY       3       1     0.5       0       0     0.5       1       3
              *

6127          KK   C84uS COMBINE
6128          KM    Combine hydrographs R84uS and P84uS.
6129          HC       2    9.04
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6130          KK   CC84v COMBINE
6131          KM    Combine hydrographs C84uS and C84v.
6132          HC       2    9.76
              *

6133          KK    D84v  DIVERT
6134          KM    Divert 1269 cfs into pipes (252 + 509 + 508).
6135          KM    Flows of 509 and 508 combined.
6136          DT   D84vP
6137          DI       0     100    1000    1269   10000
6138          DQ       0     100    1000    1269    1269
              *

6139          KK   D84vW  DIVERT
6140          KM    Divert 37% of surface flow to south.
6141          DT   D84vS
6142          DI       0     100    1000   10000
6143          DQ       0      37     370    3700
              *

6144          KK   R84vW   ROUTE
6145          KM    Route surface flow west from Subbasin 84v to 88v.
6146          RS       2    FLOW      -1
6147          RC   0.050   0.016   0.050    2760  0.0025
6148          RX       0     0.5      20      49      51      80    99.5     100
6149          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
6150          KK     88v   BASIN
6151          KM    Subbasin at NEC of Lower Buckeye and 35th Ave
6152          BA   0.248
6153          LG    0.20    0.13   10.10    0.05      34
6154          UC   0.932   0.788
6155          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6156          UA     100
              *

6157          KK  BD88uS RETRIEVE
6158          KM    Retrieve diverted surface flow from D88uS.
6159          DR   D88uS
              *

6160          KK   R88uS   ROUTE
6161          KM    Route surface flow south from Subbasin 88u to 88v.
6162          RS       2    FLOW      -1
6163          RC   0.050   0.016   0.050    2760  0.0033
6164          RX       0    0.75      30    73.5    76.5     120  149.25     150
6165          RY       4       1     0.5       0       0     0.5       1       4
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6166          KK    C88v COMBINE
6167          KM    Combine hydrographs 88v, R88uS, and R84vS.
6168          HC       3   10.52
              *

6169          KK    D88v  DIVERT
6170          KM    Divert 51 cfs into pipe (south).
6171          DT   D88vP
6172          DI       0      51    1000   10000
6173          DQ       0      51      51      51
              *

6174          KK   R88vW   ROUTE
6175          KM    Route surface flow west from Subbasin 88v to 92v.
6176          RS       3    FLOW      -1
6177          RC   0.050   0.016   0.050    2750  0.0011
6178          RX       0    1.05      42   102.9   107.1     168  208.95     210
6179          RY       4       1     0.5       0       0     0.5       1       4
              *

6180          KK     92v   BASIN
6181          KM    Subbasin at NEC of Lower Buckeye and 43rd Ave
6182          BA   0.159
6183          LG    0.10    0.13   10.10    0.05      72
6184          UC   0.647   0.561
6185          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6186          UA     100
              *

6187          KK    C92v COMBINE
6188          KM    Combine flows of C92uS, 92v and R88vW
6189          HC       3   11.30
              *

6190          KK   D92vP  DIVERT
6191          KM    Divert 201 cfs into pipe (west)
6192          DT    D92v
6193          DI       0     201    1000   10000
6194          DQ       0       0     799    9799
              *

6195          KK   P92vS   ROUTE
6196          KM    Route pipe flow from subbasin 92v to subbasin 88w.
6197          RK    4900  0.0030   0.015            CIRC    6.00
              *

6198          KK     88w   BASIN
6199          KM    Subbasin at NEC of Salt River and 43rd Ave
6200          BA   0.599
6201          LG    0.17    0.25    5.10    0.34      40
6202          UC   1.045   0.622
6203          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6204          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
6205          KK  BD88vP RETRIEVE
6206          KM    Retrieve diverted pipe flow from D88vP.
6207          DR   D88vP
              *

6208          KK   P88vS   ROUTE
6209          KM    Route pipe flow from subbasin 88v to subbasin 88w.
6210          RK    2600  0.0034   0.015            CIRC     3.5
              *

6211          KK    C88w COMBINE
6212          KM    Combine hydrographs P88vS, P92vS, and 88w.
6213          HC       3   11.90
              *

6214          KK     44v   BASIN
6215          KM   Subbasin at NEC of Salt River and 20th St
6216          BA   0.236
6217          LG    0.21    0.29    2.49    1.68      24
6218          UC   1.002   0.678
6219          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6220          UA     100
              *

6221          KK  BD44sP RETRIEVE
6222          KM    Retrieve diverted pipe flow from D44sP.
6223          DR   D44sP
              *

6224          KK   P44sS   ROUTE
6225          KM    Route pipe flow from 24th st/SPRR to subbasin 44v.
6226          RK    9500  0.0030   0.015            CIRC    6.00
              *

6227          KK    C44v COMBINE
6228          KM    Combine hydrographs 44v and P44sS.
6229          HC       2    4.03
              *

6230          KK  B48oPT RETRIEVE
6231          KM    Retrieve diverted East Tunnel flow from D48oPT.
6232          DR  D48oPT
              *

6233          KK   PT48o   ROUTE
6234          KM    Route East Tunnel flow from 20th st/Moreland to subbasin 48q.
6235          RK    3800  0.0030   0.015            CIRC    21.0
              *
1                                        HEC-1 INPUT                                          PAGE174

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6236          KK  B48qPT RETRIEVE
6237          KM    Retrieve diverted flow to East Tunnel from D48qPT.
6238          DR  D48qPT
              *

6239          KK  CPT48q COMBINE
6240          KM    Combine hydrographs PT48o and D48qPT.
6241          HC       2   16.11
              *

6242          KK   PT48q   ROUTE
6243          KM    Route East Tunnel flow from subbasin 48q to subbasin 48s.
6244          RK    2500   0.003   0.015            CIRC    21.0
              *

6245          KK  B48sPT RETRIEVE
6246          KM    Retrieve diverted flow to East Tunnel from D48sPT.
6247          DR  D48sPT
              *

6248          KK  CPT48s COMBINE
6249          KM    Combine hydrographs PT48q and D48sPT.
6250          HC       2   17.54
              *

6251          KK   PT48s   ROUTE
6252          KM    Route East Tunnel flow from subbasin 48s to subbasin 48v.
6253          RK    9500   0.003   0.015            CIRC   21.00
              *

6254          KK     48v   BASIN
6255          KM    Subbasin at NEC of Salt River and 20th St
6256          BA   0.299
```

```
6257          LG    0.10    0.28    2.59    1.77      68
6258          UC   0.822   0.640
6259          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6260          UA     100
              *

6261          KK    C48v COMBINE
6262          KM    Combine hydrographs 48v and PT48s.
6263          HC       2   17.84
              *

6264          KK  NUL48v COMBINE
6265          KM    Combine hydrographs C48v and C44v.
6266          HC       2   18.08
              *
1                                          HEC-1 INPUT                                          PAGE175

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6267          KK     52v   BASIN
6268          KM   Subbasin at NEC of Salt River and 16th St
6269          BA   0.297
6270          LG    0.22    0.28    2.65    1.41      22
6271          UC   1.049   0.659
6272          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6273          UA     100
              *

6274          KK  BD52uP RETRIEVE
6275          KM    Retrieve diverted pipe flow from D52uP.
6276          DR   D52uP
              *

6277          KK   P52uS   ROUTE
6278          KM    Route pipe flow from 16th st/I-17 to subbasin 52v.
6279          RK    2700  0.0038   0.015            CIRC    6.50
              *

6280          KK  BD52uS RETRIEVE
6281          KM    Retrieve diverted surface flow from D52uS.
6282          DR   D52uS
              *

6283          KK   R52uS   ROUTE
6284          KM    Route surface flow south from Subbasin 52u to 52v.
6285          RS       2    FLOW      -1
6286          RC   0.050   0.016   0.050    3080  0.0026
6287          RX       0     0.5      20      49      51      80    99.5     100
6288          RY       3       1     0.5       0       0     0.5       1       3
              *

6289          KK   C52uS COMBINE
6290          KM    Combine hydrographs R52uS and P52uS.
6291          HC       2    1.35
              *

6292          KK    C52v COMBINE
6293          KM    Combine hydrographs 52v and C52uS.
6294          HC       2    1.64
              *

6295          KK  NUL52v COMBINE
6296          KM    Combine hydrographs C52v and NUL48v.
6297          HC       2   19.72
              *

6298          KK     56v   BASIN
6299          KM    Subbasin at NEC of Salt River and 12th St
6300          BA   0.231
6301          LG    0.20    0.24    4.40    0.47      28
6302          UC   0.990   0.864
6303          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6304          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE176

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6305          KK  BD56uP RETRIEVE
6306          KM    Retrieve diverted pipe flow from D56uP.
6307          DR   D56uP
              *

6308          KK   P56uS   ROUTE
```

```
6309          KM    Route pipe flow from subbasin 56u to subbasin 56v.
6310          RK    2500  0.0060   0.015            CIRC    8.00
              *

6311          KK  BD56uS RETRIEVE
6312          KM    Retrieve diverted surface flow from D56uS.
6313          DR   D56uS
              *

6314          KK   R56uS   ROUTE
6315          KM    Route surface flow south from Subbasin 56u to 56v.
6316          RS       4    FLOW      -1
6317          RC   0.050   0.016   0.050    2500  0.0034
6318          RX       0     0.5      20      49      51      80    99.5     100
6319          RY       3       1     0.5       0       0     0.5       1       3
              *

6320          KK   C56uS COMBINE
6321          KM    Combine hydrographs R56uS and P56uS.
6322          HC       2    2.46
              *

6323          KK    C56v COMBINE
6324          KM    Combine hydrographs 56v and C56uS.
6325          HC       2    2.69
              *

6326          KK  NUL56v COMBINE
6327          KM    Combine hydrographs C56v and NUL52v.
6328          HC       2   21.07
              *

6329          KK     60v   BASIN
6330          KM    Subbasin at NEC of Salt River and 7th St
6331          BA   0.228
6332          LG    0.15    0.24    4.90    0.38      43
6333          UC   0.898   0.732
6334          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6335          UA     100
              *

6336          KK  BD60uP RETRIEVE
6337          KM    Retrieve diverted pipe flow from D60uP.
6338          DR   D60uP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6339          KK   P60uS   ROUTE
6340          KM    Route pipe flow from subbasin 60u to subbasin 60v.
6341          RK    2400  0.0030   0.015            CIRC    5.00
              *

6342          KK  BD60uS RETRIEVE
6343          KM    Retrieve diverted surface flow from D60uS.
6344          DR   D60uS
              *

6345          KK   R60uS   ROUTE
6346          KM    Route surface flow south from Subbasin 60u to 60v.
6347          RS       3    FLOW      -1
6348          RC   0.050   0.016   0.050    2400  0.0034
6349          RX       0     0.5      20      49      51      80    99.5     100
6350          RY       3       1     0.5       0       0     0.5       1       3
              *

6351          KK   C60uS COMBINE
6352          KM    Combine hydrographs R60uS and P60uS.
6353          HC       2    3.68
              *

6354          KK    C60v COMBINE
6355          KM    Combine hydrographs C60uS and 60v.
6356          HC       2    3.91
              *

6357          KK  NUL60v COMBINE
6358          KM    Combine hydrographs C60v and NUL56v.
6359          HC       2   22.51
              *

6360          KK  BPT64o RETRIEVE
6361          KM    Retrieve diverted West Tunnel flow from DPT64o.
6362          DR  DPT64o
```

```
                *

6363            KK  B64qPT RETRIEVE
6364            KM    Retrieve diverted West Tunnel flow from D64qPT.
6365            DR  D64qPT
                *

6366            KK  CPT64q COMBINE
6367            KM    Combine hydrographs DPT64o and D64qPT.
6368            HC       2   22.55
                *

6369            KK   PT64q   ROUTE
6370            KM    Route West Tunnel flow from subbasin 64q to subbasin 64s.
6371            RK    2500   0.003   0.015            CIRC    21.0
                *
1                                        HEC-1 INPUT                                                    PAGE178

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6372            KK  B64sPT RETRIEVE
6373            KM    Retrieve diverted West Tunnel flow from D64sPT.
6374            DR  D64sPT
                *

6375            KK  CPT64s COMBINE
6376            KM    Combine hydrographs D64sPT and PT64q.
6377            HC       2   23.58
                *

6378            KK   PT64s  ROUTE
6379            KM    Route West Tunnel flow from subbasin 64s to subbasin 64t.
6380            RK    2800   0.003   0.015            CIRC    21.0
                *

6381            KK  B64tPT RETRIEVE
6382            KM    Retrieve diverted West Tunnel flow from D64tPT.
6383            DR  D64tPT
                *

6384            KK  CPT64t COMBINE
6385            KM    Combine hydrographs PT64s and D64tPT.
6386            HC       2   24.65
                *

6387            KK   PT64t  ROUTE
6388            KM    Route West Tunnel flow from subbasin 64t to subbasin 64u.
6389            RK    3100  0.003    0.015            CIRC    21.0
                *

6390            KK  B64uPT RETRIEVE
6391            KM    Retrieve diverted pipe flow from D64uPT.
6392            DR  D64uPT
                *

6393            KK  CPT64u COMBINE
6394            KM    Combine hydrographs PT64t and D64uPT.
6395            HC       2   25.95
                *

6396            KK  PT64u  ROUTE
6397            KM    Route West Tunnel flow from subbasin 64u to subbasin 64v.
6398            RK    2000  0.003   0.015             CIRC    21.0
                *

6399            KK     64v   BASIN
6400            KM    Subbasin at NEC of Salt River and Central
6401            BA   0.195
6402            LG    0.10    0.25    4.55    0.49      61
6403            UC   0.794   0.571
6404            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6405            UA     100
                *
1                                        HEC-1 INPUT                                                    PAGE179

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6406            KK  BD64uP RETRIEVE
6407            KM    Retrieve diverted pipe flow from D64uP.
6408            DR   D64uP
                *

6409            KK   P64uS  ROUTE
6410            KM    Route pipe flow from subbasin 64u to subbasin 64v.
```

```
6411          RK    2000  0.0035   0.015            CIRC     8.0
              *

6412          KK  BD64uS RETRIEVE
6413          KM    Retrieve diverted surface flow from D64uS.
6414          DR   D64uS
              *

6415          KK   R64uS   ROUTE
6416          KM    Route surface flow south from Subbasin 64u to 64v.
6417          RS       3    FLOW      -1
6418          RC   0.050   0.016   0.050    2100  0.0034
6419          RX       0     0.5      20      49      51      80    99.5     100
6420          RY       3       1     0.5       0       0     0.5       1       3
              *

6421          KK   C64uS COMBINE
6422          KM    Combine hydrographs R64uS and P64uS.
6423          HC       2    4.91
              *

6424          KK    C64v COMBINE
6425          KM    Combine hydrographs C64uS, PT64u, and 64v.
6426          HC       3   26.15
              *

6427          KK  NUL64v COMBINE
6428          KM    Combine hydrographs C64v and NUL60v.
6429          HC       2   44.28
              *

6430          KK     68v   BASIN
6431          KM    Subbasin at NEC of Salt River and 7th Ave
6432          BA   0.218
6433          LG    0.19    0.25    4.60    0.42      33
6434          UC   0.977   0.789
6435          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6436          UA     100
              *

6437          KK  BD68uP RETRIEVE
6438          KM    Retrieve diverted pipe flow from D68uP.
6439          DR   D68uP
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6440          KK   P68uS   ROUTE
6441          KM    Route pipe flow from Central/I-17 to subbasin 68v.
6442          RK    3300  0.0073   0.015            CIRC    4.50
              *

6443          KK  BD68uS RETRIEVE
6444          KM    Retrieve diverted surface flow from D68uS.
6445          DR   D68uS
              *

6446          KK   R68uS   ROUTE
6447          KM    Route surface flow south from Subbasin 68u to 68v.
6448          RS       3    FLOW      -1
6449          RC   0.050   0.016   0.050    3300  0.0070
6450          RX       0     0.5      20      49      51      80    99.5     100
6451          RY       3       1     0.5       0       0     0.5       1       3
              *

6452          KK   C68uS COMBINE
6453          KM    Combine hydrographs R68uS and P68uS.
6454          HC       2    5.97
              *

6455          KK    C68v COMBINE
6456          KM    Combine hydrographs P68uS and 68v.
6457          HC       2    6.19
              *

6458          KK  NUL68v COMBINE
6459          KM    Combine hydrographs C68v and NUL64v.
6460          HC       2   45.56
              *

6461          KK     72v   BASIN
6462          KM    Subbasin at NEC of Salt River and 15th Ave
6463          BA   0.407
6464          LG    0.13    0.25    4.40    0.52      59
```

```
6465          UC   0.829   0.584
6466          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6467          UA     100
              *

6468          KK  BD72uP RETRIEVE
6469          KM    Retrieve diverted pipe flow from D72uP.
6470          DR   D72uP
              *

6471          KK  D72uP1  DIVERT
6472          KM    Divert 714 cfs into pipe (south) (281 cfs + 433 cfs).
6473          DT  D72uP2
6474          DI       0     714    1000
6475          DQ       0     281     281
              *
1                                        HEC-1 INPUT                                          PAGE181

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6476          KK  P72uS1  ROUTE
6477          KM    Route pipe flow from subbasin 72u to subbasin 72v.
6478          RK    5000  0.0030   0.015            CIRC    8.00
              *

6479          KK  B72uP2 RETRIEVE
6480          KM    Retrieve diverted pipe flow from D72uP2.
6481          DR  D72uP2
              *

6482          KK  P72uS2  ROUTE
6483          KM    Route pipe flow from subbasin 72u to subbasin 72v.
6484          RK    4500  0.0031   0.015            CIRC     6.8
              *

6485          KK  BD72uS RETRIEVE
6486          KM    Retrieve diverted flow from D72uS.
6487          DR   D72uS
              *

6488          KK   R72uS   ROUTE
6489          KM    Route surface flow south from Subbasin 72u to 72v.
6490          RS       5    FLOW      -1
6491          RC   0.050   0.016   0.050    4500  0.0023
6492          RX       0     0.5      20      49      51      80    99.5     100
6493          RY       3       1     0.5       0       0     0.5       1       3
              *

6494          KK   C72uS COMBINE
6495          KM    Combine hydrographs R72uS, P72uS1, and P72uS2.
6496          HC       3    8.06
              *

6497          KK    C72v COMBINE
6498          KM    Combine hydrographs C72uS and 72v.
6499          HC       2    8.47
              *

6500          KK  NUL72v COMBINE
6501          KM    Combine hydrographs C72v and NUL68v.
6502          HC       2   47.06
              *

6503          KK    76w   BASIN
6504          KM    Subbasin at NEC of Salt River and 19th Ave
6505          BA   0.334
6506          LG    0.10    0.26    3.17    1.09       2
6507          UC   0.913   0.600
6508          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6509          UA     100
              *
1                                        HEC-1 INPUT                                          PAGE182

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6510          KK  BD76vS RETRIEVE
6511          KM    Retrieve diverted surface flow from D76vS.
6512          DR   D76vS
              *

6513          KK   R76vS   ROUTE
6514          KM    Route surface flow south from Subbasin 76v to 76w.
6515          RS       4    FLOW      -1
6516          RC   0.050   0.016   0.050    3800  0.0107
```

```
6517          RX       0     0.5      20      49      51      80    99.5     100
6518          RY       3       1     0.5       0       0     0.5       1       3
              *

6519          KK  BD76vP RETRIEVE
6520          KM    Retrieve diverted pipe flow from D76vP.
6521          DR   D76vP
              *

6522          KK   P76vS   ROUTE
6523          KM    Route pipe flow from subbasin 76v to subbasin 76w.
6524          RK    4000  0.0041   0.015            CIRC    4.50
              *

6525          KK   C76vS COMBINE
6526          KM    Combine hydrographs R76vS and P76vS.
6527          HC       2    8.24
              *

6528          KK    C76w COMBINE
6529          KM    Combine hydrographs 76w and C76vS.
6530          HC       2    8.57
              *

6531          KK  NUL76w COMBINE
6532          KM    Combine hydrographs C76w and NUL72v.
6533          HC       2   56.10
              *

6534          KK     80w  BASIN
6535          KM    Subbasin at NEC of Salt River and 23rd Ave
6536          BA   0.360
6537          LG    0.12    0.27    3.43    0.95      60
6538          UC   0.718   0.541
6539          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6540          UA     100
              *

6541          KK  BD80vS RETRIEVE
6542          KM    Retrieve diverted surface flow from D80vS.
6543          DR   D80vS
              *
                                        HEC-1 INPUT                                          PAGE183

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6544          KK   R80vS   ROUTE
6545          KM    Route surface flow south from Subbasin 80v to 80w.
6546          RS       3    FLOW      -1
6547          RC   0.050   0.016   0.050    3920  0.0061
6548          RX       0    0.75      30    73.5    76.5     120  149.25     150
6549          RY       3       1     0.5       0       0     0.5       1       3
              *

6550          KK    C80w COMBINE
6551          KM    Combine hydrographs R80vS and 80w.
6552          HC       2    8.59
              *

6553          KK  NUL80w COMBINE
6554          KM    Combine hydrographs C80w and NUL76w.
6555          HC       2   58.09
              *

6556          KK  BD84vS RETRIEVE
6557          KM    Retrieve diverted surface flow from D84vS.
6558          DR   D84vS
              *

6559          KK   R84vS   ROUTE
6560          KM    Route surface flow south from Subbasin 84v to 84w.
6561          RS       2    FLOW      -1
6562          RC   0.050   0.016   0.050    3290  0.0033
6563          RX       0     0.5      20      49      51      80    99.5     100
6564          RY       3       1     0.5       0       0     0.5       1       3
              *

6565          KK  BD84vP RETRIEVE
6566          KM    Retrieve diverted pipe flow from D84vP.
6567          DR   D84vP
              *

6568          KK  D84vP1  DIVERT
6569          KM    Divert flows into pipe (south).
6570          DT  D84vP2
```

```
6571          DI       0    1269    2000
6572          DQ       0    1017    1017
              *

6573          KK  P84vS1  ROUTE
6574          KM    Route pipe flow from subbasin 84v to subbasin 84w.
6575          RK    3100  0.0031   0.015            CIRC    6.50
              *

6576          KK  B84vP2 RETRIEVE
6577          KM    Retrieve diverted pipe flow from D84vP2.
6578          DR  D84vP2
              *
1                                        HEC-1 INPUT                                                    PAGE184

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6579          KK  P84vS2   ROUTE
6580          KM    Route pipe flow from subbasin 84v to subbasin 84w.
6581          RK    3100  0.0030   0.015            CIRC   11.0
              *

6582          KK   C84vS COMBINE
6583          KM    Combine hydrographs R84vS, P84vS1, and P84vS2.
6584          HC       3    9.76
              *

6585          KK     84w   BASIN
6586          KM    Subbasin at NEC of Salt River and 27th Ave
6587          BA   0.339
6588          LG    0.17    0.25    3.95    0.61      43
6589          UC   0.908   0.631
6590          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6591          UA     100
              *

6592          KK  BD80vP RETRIEVE
6593          KM    Retrieve diverted pipe flow from D80vP.
6594          DR   D80vP
              *

6595          KK   P80vS   ROUTE
6596          KM    Route pipe flow from subbasin 80v to subbasin 80w.
6597          RK    4600  0.0030   0.015            CIRC     6.5
              *

6598          KK    C84w COMBINE
6599          KM    Combine hydrographs 84w and C84vS.
6600          HC       3   10.10
              *

6601          KK  NUL84w COMBINE
6602          KM    Combine hydrographs C84w and NUL80w.
6603          HC       2   59.72
              *

6604          KK  NUL88w COMBINE
6605          KM    Combine hydrographs C88w and NUL84w.
6606          HC       2   61.86
              *

6607          KK     24s   BASIN
6608          KM    Subbasin at NEC of Grand Canal and 44th St
6609          BA   0.195
6610          LG    0.19    0.25    4.80    0.37      35
6611          UC   0.601   0.451
6612          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6613          UA     100
              *
1                                        HEC-1 INPUT                                                    PAGE185

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6614          KK    S24s STORAGE
6615          KM    Regional online retention basin, 5 ac-ft.
6616          RS       1    STOR       0
6617          SV       0     5.1      14
6618          SE       0       2       4
6619          SS       2     100     2.7     1.5
              *

6620          KK  B28qP2 RETRIEVE
6621          KM    Retrieve diverted pipe flow from D28qP2.
6622          DR  D28qP2
```

```
                *

6623            KK   P28qE   ROUTE
6624            KM    Route pipe flow from subbasin 28q to subbasin 24s.
6625            RK    1300  0.0031   0.015            CIRC     3.0
                *

6626            KK    C24s COMBINE
6627            KM    Combine hydrographs P28qE and S24s.
6628            HC       2    0.20
                *

6629            KK    D24s  DIVERT
6630            KM    Divert 249 cfs into pipe (south).
6631            DT   D24sP
6632            DI       0     100     249   10000
6633            DQ       0     100     249     249
                *

6634            KK   R24sS   ROUTE
6635            KM    Route surface flow south from Subbasin 24s to 24t.
6636            RS       2    FLOW      -1
6637            RC   0.050   0.016   0.050    5000  0.0030
6638            RX       0     0.5      20      49      51      80    99.5     100
6639            RY       3       1     0.5       0       0     0.5       1       3
                *

6640            KK  BD24sP RETRIEVE
6641            KM    Retrieve diverted pipe flow from D24sP.
6642            DR   D24sP
                *

6643            KK  D24sPS  DIVERT
6644            KM    Divert 32 cfs into pipe (east).
6645            DT  D24sPE
6646            DI       0     249     250
6647            DQ       0      32      32
                *
1                                          HEC-1 INPUT                                                    PAGE186

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6648            KK   P24sS   ROUTE
6649            KM    Route pipe flow from 44th st/Grand Canal to subbasin 24t.
6650            RK    5000  0.0030   0.015            CIRC    6.50
                *

6651            KK   C24sS COMBINE
6652            KM    Combine hydrographs R24sS and P24sS.
6653            HC       2    0.20
                *

6654            KK     24t   BASIN
6655            KM   Subbasin at NEC of Salt River and SR143
6656            BA   0.260
6657            LG    0.10    0.25    3.48    0.87       6
6658            UC   0.604   0.282
6659            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6660            UA     100
                *

6661            KK    C24t COMBINE
6662            KM    Combine hydrographs 24t and C24sS.
6663            HC       2    0.46
                *

6664            KK   S24t STORAGE
6665            KM    Online Regional Detention Basin, 31 ac-ft.
6666            RS       1    STOR       0
6667            SV       0      13    30.6    53.6
6668            SE       0       4       8      12
6669            SQ       0      25      90    6594
                *

6670            KK     04s   BASIN
6671            KM    Subbasin at NEC of Washington and Center Pkwy
6672            BA   0.278
6673            LG    0.12    0.25    4.15    0.63      25
6674            UC   0.315   0.167
6675            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6676            UA     100
                *

6677            KK    S04s STORAGE
6678            KM    Online Detention Basin, 2 ac-ft.
```

```
6679          RS       1    STOR       0
6680          SV       0     0.5       2       6
6681          SE       0       4       8      12
6682          SL     0.5   0.785    0.62     0.5
6683          SS       8      60     2.7     1.5
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6684          KK   R04sS   ROUTE
6685          KM    Route surface flow south from Subbasin 04s to 08s.
6686          RS       1    FLOW      -1
6687          RC   0.050   0.016   0.050    1870  0.0064
6688          RX       0     0.5      20      49      51      80    99.5     100
6689          RY       3       1     0.5       0       0     0.5       1       3
              *

6690          KK     08q   BASIN
6691          KM    Subbasin at NEC of Center and Phoenix Zoo
6692          BA   0.438
6693          LG    0.10    0.25    3.95    0.64      41
6694          UC   0.519   0.318
6695          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6696          UA     100
              *

6697          KK   R08qS   ROUTE
6698          KM    Route surface flow south from Subbasin 08q to 08s.
6699          RS       2    FLOW      -1
6700          RC   0.050   0.016   0.050    3500  0.0224
6701          RX       0    0.75      30    73.5    76.5     120  149.25     150
6702          RY       3       1     0.5       0       0     0.5       1       3
              *

6703          KK     08s   BASIN
6704          KM    Subbasin at NEC of Loop 202 and Priest Dr
6705          BA   0.651
6706          LG    0.15    0.25    3.85    0.68      44
6707          UC   0.569   0.273
6708          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6709          UA     100
              *

6710          KK    C08s COMBINE
6711          KM    Combine hydrographs 08s and R08q, R04s.
6712          HC       3    1.37
              *

6713          KK   S08s STORAGE
6714          KM   Online Detention Regional Basin, 28 ac-ft.
6715          RS       1    STOR       0
6716          SV       0       1       3       6      12      20      28      38
6717          SE       0       2       4       6       8      10      12      14
6718          SL     0.5    3.14    0.62     0.5
6719          SS      12     400     2.7     1.5
              *

6720          KK    D08s  DIVERT
6721          KM    Divert 862 cfs into pipe (south).
6722          DT   D08sP
6723          DI       0     100     862   10000
6724          DQ       0     100     862     862
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6725          KK   R08sW   ROUTE
6726          KM    Route surface flow west from Subbasin 08s to 16s.
6727          RS       3    FLOW      -1
6728          RC   0.050   0.016   0.050    2800  0.0031
6729          RX       0     0.5      20      49      51      80    99.5     100
6730          RY       3       1     0.5       0       0     0.5       1       3
              *

6731          KK     12q   BASIN
6732          KM    Subbasin at NEC of Van Buren and 56th St
6733          BA   0.399
6734          LG    0.14    0.25    4.10    0.60      10
6735          UC   0.450   0.294
6736          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6737          UA     100
              *
```

```
6738          KK   R12qS   ROUTE
6739          KM    Route surface flow south from Subbasin 12q to 12s.
6740          RS       2    FLOW      -1
6741          RC   0.050   0.016   0.050    3500  0.0175
6742          RX       0     0.5      20      49      51      80    99.5     100
6743          RY       3       1     0.5       0       0     0.5       1       3
              *

6744          KK     12s   BASIN
6745          KM    Subbasin at NEC of UPRR and Galvin Pkwy
6746          BA   0.208
6747          LG    0.12    0.25    4.00    0.65      72
6748          UC   0.398   0.272
6749          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6750          UA     100
              *

6751          KK   S12s STORAGE
6752          KM    Online Detention Basin, 10 ac-ft.
6753          RS       1    STOR       0
6754          SV       0     1.2       3       6      10      15
6755          SE       0       2       4       6       8      10
6756          SL     0.5   0.785    0.62     0.5
6757          SS       8     150     2.7     1.5
              *

6758          KK    C12s COMBINE
6759          KM    Combine hydrographs S12s and R12qs.
6760          HC       2    0.61
              *

6761          KK   R12sW   ROUTE
6762          KM    Route surface flow west from Subbasin 12s to 16s.
6763          RS       2    FLOW      -1
6764          RC   0.050   0.016   0.050    2500  0.0031
6765          RX       0     0.5      20      49      51      80    99.5     100
6766          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6767          KK   C12sW COMBINE
6768          KM    Combine hydrographs R12sW and P08sW.
6769          HC       2    1.97
              *

6770          KK   D16s2  DIVERT
6771          KM    Divert 979 cfs into pipe (south).
6772          DT  D16sP2
6773          DI       0     100     979   10000
6774          DQ       0     100     979     979
              *

6775          KK     16o   BASIN
6776          KM    Subbasin at NEC of Mcdowell and 54th St
6777          BA   0.211
6778          LG    0.10    0.25    4.15    0.63      78
6779          UC   0.181   0.081
6780          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6781          UA     100
              *

6782          KK   R16oS   ROUTE
6783          KM    Route surface flow south from Subbasin 16o to 16q.
6784          RS       2    FLOW      -1
6785          RC   0.050   0.016   0.050    5150  0.0252
6786          RX       0     0.5      20      49      51      80    99.5     100
6787          RY       3       1     0.5       0       0     0.5       1       3
              *

6788          KK     16q   BASIN
6789          KM    Subbasin at NEC of Van Buren and 52nd St
6790          BA   0.651
6791          LG    0.13    0.25    3.95    0.67      21
6792          UC   0.637   0.428
6793          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6794          UA     100
              *

6795          KK    C16q COMBINE
6796          KM    Combine hydrographs 16q and R16oS.
6797          HC       2    0.86
              *
```

```
6798          KK   S16q STORAGE
6799          KM    Online Regional Retention Basin, 35 ac-ft.
6800          RS       1    STOR       0
6801          SV       0     0.5       2       3       9      20      35      58
6802          SE       0       2       4       6      10      14      18      22
6803          SS      18     100     2.7     1.5
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6804          KK    D16q  DIVERT
6805          KM    Divert 659 cfs into pipes (484 cfs to south, 175 cfs to west).
6806          DT   D16qP
6807          DI       0     100     659   10000
6808          DQ       0     100     659     659
              *

6809          KK   R16qS   ROUTE
6810          KM    Route surface flow south from Subbasin 16q to 16s.
6811          RS       2    FLOW      -1
6812          RC   0.050   0.016   0.050    3200  0.0194
6813          RX       0       1      40      98     102     160     199     200
6814          RY       3       1     0.5       0       0     0.5       1       3
              *

6815          KK     16s   BASIN
6816          KM    Subbasin at NEC of Loop 202 and Sky Harbor Blvd
6817          BA   0.420
6818          LG    0.16    0.23    4.25    0.52      59
6819          UC   0.452   0.221
6820          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6821          UA     100
              *

6822          KK    C16s COMBINE
6823          KM    Combine flows of 16s, R16qS, and D16s2
6824          HC       3    3.26
              *

6825          KK    S16s STORAGE
6826          KM    Online Regional Retention Basin, 19 ac-ft.
6827          RS       1    STOR       0
6828          SV       0     2.4       7    12.7    19.2    26.5
6829          SE       0       2       4       6       8      10
6830          SS       8     300     2.7     1.5
              *

6831          KK  BD16qP RETRIEVE
6832          KM    Retrieve diverted pipe flow from D16qP.
6833          DR   D16qP
              *

6834          KK  D16qPS  DIVERT
6835          KM    Divert 659 cfs into pipes (484 cfs to south 175 cfs to west).
6836          KM    Two pipes to west (82 cfs and 93 cfs).
6837          DT  D16qPW
6838          DI       0     659    1000
6839          DQ       0     175     175
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6840          KK   P16qS   ROUTE
6841          KM    Route pipe flow from subbasin 16q to subbasin 16s.
6842          RK    3400  0.0114   0.015            CIRC    6.50
              *

6843          KK   CC16s COMBINE
6844          KM    Combine flows of S16s and P16qS.
6845          HC       2    3.26
              *

6846          KK    D16s  DIVERT
6847          KM    Divert 709 cfs into pipe (west).
6848          DT   D16sP
6849          DI       0     100     709   10000
6850          DQ       0     100     709     709
              *

6851          KK   R16sS   ROUTE
6852          KM    Route surface flow south from Subbasin 16s to 20t.
```

```
6853          RS       2    FLOW      -1
6854          RC   0.050   0.016   0.050    1800  0.0044
6855          RX       0       1      40      98     102     160     199     200
6856          RY       3       1     0.5       0       0     0.5       1       3
              *

6857          KK  BD16sP RETRIEVE
6858          KM    Retrieve diverted pipe flow from D16sP.
6859          DR   D16sP
              *

6860          KK   P16sS   ROUTE
6861          KM    Route pipe flow from 52nd st/SPRR to subbasin 20t.
6862          RK    1500  0.0153   0.015            CIRC    8.00
              *

6863          KK   C16sS COMBINE
6864          KM    Combine hydrographs R16sS and P16sS.
6865          HC       2    3.26
              *

6866          KK     20p   BASIN
6867          KM    Subbasin at NEC of Loop 202 and SR143
6868          BA   0.532
6869          LG    0.54    0.24    4.40    0.46      26
6870          UC   0.686   0.401
6871          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6872          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6873          KK   S20p1 STORAGE
6874          KM    Online Retention Basin, 2 ac-ft.
6875          RS       1    STOR       0
6876          SV       0     0.1     0.6       2       4
6877          SE       0       2       4       6       8
6878          SS       6     100     2.7     1.5
              *

6879          KK  B16qPW RETRIEVE
6880          KM    Retrieve diverted pipe flow from D16qPW.
6881          DR  D16qPW
              *

6882          KK   P16qW   ROUTE
6883          KM    Route pipe flow from subbasin 16q to subbasin 20p.
6884          RK    5200  0.0127   0.015            CIRC     5.0
              *

6885          KK    C20p COMBINE
6886          KM    Combine hydrographs P16qW and S20p1.
6887          HC       2    1.39
              *

6888          KK   S20p2 STORAGE
6889          KM    Online Regional Detention Basin, 43 ac-ft.
6890          RS       1    STOR       0
6891          SV       0     1.4     4.1     9.6    20.7    42.7    79.4
6892          SE       0       2       4       6       8      10      12
6893          SL     1.5   7.065    0.62     0.5
6894          SS      10     200     2.7     1.5
              *

6895          KK  OCCC48  INFLOW
6896          KM   Inflow from OCCC area at 48th Street and McDowell Rd.
6897          KM   Maximum flow 5420 cfs
6898          IN      60
6899          BA     3.0
6900          QI     0.1      20     200    1500    5420    2461    1288     600      50     0.1
              *

6901          KK  BD24oP RETRIEVE
6902          KM    Retrieve diverted pipe flow from D24oP.
6903          DR   D24oP
              *

6904          KK   P24oS   ROUTE
6905          KM    Route pipe flow from subbasin 24o to subbasin 20p.
6906          RK    3000  0.0030   0.015            CIRC    3.50
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
6907          KK   C24oS COMBINE
6908          KM    Combine hydrographs OCCC48 and P24oS.
6909          HC       2    3.00
              *

6910          KK   ROCCC   ROUTE
6911          KM    Route surface flow south from OCCC48 to 20p.
6912          RS       2    FLOW      -1
6913          RC   0.013   0.013   0.013    3000  0.0038
6914          RX       0       1       2      10      19      28      29      30
6915          RY      20      20       0       0       0       0      20      20
              *

6916          KK   CC20p COMBINE
6917          KM    Combine hydrographs S20p2 and ROCCC.
6918          HC       2    4.39
              *

6919          KK   R20pS   ROUTE
6920          KM    Route surface flow south from Subbasin 20p to 20q.
6921          RS       2    FLOW      -1
6922          RC   0.013   0.013   0.013    3000  0.0020
6923          RX       0       1       2      10      19      28      29      30
6924          RY      20      20       0       0       0       0      20      20
              *

6925          KK     20q   BASIN
6926          KM    Subbasin at NEC of Van Buren and SR143
6927          BA   0.276
6928          LG    0.25    0.22    4.45    0.40      11
6929          UC   0.625   0.367
6930          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6931          UA     100
              *

6932          KK  B28pP2 RETRIEVE
6933          KM    Retrieve diverted pipe flow from D28pP2.
6934          DR  D28pP2
              *

6935          KK   P28pE   ROUTE
6936          KM    Route pipe flow from subbasin 28p to subbasin 20q.
6937          RK    6000  0.0030   0.015            CIRC     4.0
              *

6938          KK    C20q COMBINE
6939          KM    Combine hydrographs 20q and R20pS.
6940          HC       3    4.67
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6941          KK   R20qS   ROUTE
6942          KM    Route surface flow south from Subbasin 20q to 20s.
6943          RS       2    FLOW      -1
6944          RC   0.013   0.013   0.013    3200  0.0020
6945          RX       0       1       2      10      19      28      29      30
6946          RY      20      20       0       0       0       0      20      20
              *

6947          KK     20s   BASIN
6948          KM   Subbasin at NEC of Grand Canal and SR143
6949          BA   0.484
6950          LG    0.16    0.24    4.55    0.44      52
6951          UC   0.461   0.198
6952          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6953          UA     100
              *

6954          KK    S20s STORAGE
6955          KM    Online Retention Basin, 3 ac-ft.
6956          RS       1    STOR       0
6957          SV       0     0.9       3       8
6958          SE       0       2       4       7
6959          SS       4     120     2.7     1.5
              *

6960          KK    C20s COMBINE
6961          KM    Combine hydrographs S20s and R20qS.
6962          HC       2    5.15
              *
```

```
6963          KK  B24sPE RETRIEVE
6964          KM    Retrieve diverted pipe flow from D24sPE.
6965          DR  D24sPE
              *

6966          KK   P24sE   ROUTE
6967          KM    Route pipe flow from subbasin 24s to subbasin 20s.
6968          RK    2700  0.0031   0.015            CIRC     3.0
              *

6969          KK   CC20s COMBINE
6970          KM    Combine hydrographs C20s and P24sE.
6971          HC       2    5.35
              *

6972          KK   R20sS   ROUTE
6973          KM    Route surface flow south from Subbasin 20s to 20t.
6974          RS       2    FLOW      -1
6975          RC   0.013   0.013   0.013    3200  0.0038
6976          RX       0       1       2      10      19      28      29      30
6977          RY      20      20       0       0       0       0      20      20
              *
1                                          HEC-1 INPUT                                                    PAGE195

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6978          KK     20t   BASIN
6979          KM    Subbasin at NEC of Salt River and SR143
6980          BA   0.265
6981          LG    0.13    0.23    2.54    1.53       3
6982          UC   1.006   0.549
6983          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6984          UA     100
              *

6985          KK    S20t STORAGE
6986          KM    Online Retention Basin, 156 ac-ft.
6987          RS       1    STOR       0
6988          SV       0    20.7    50.1    88.4   156.1   249.1
6989          SE       0       2       4       6       8      10
6990          SS       8     600     2.7     1.5
              *

6991          KK    C20t COMBINE
6992          KM    Combine flows of 20t, C16sS, and 20sS
6993          HC       3    8.01
              *

6994          KK  NUL20t COMBINE
6995          KM    Combine hydrographs C20t and S24t.
6996          HC       2    8.27
              *
6997          ZZ
```

1

```
                    SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    83         64c
                .
                .
    92          .-------->   D64cS
    90       D64cW
                V
                V
    95       R64cW
                .
                .
   101          .         68c
                .           .
                .           .
   108        C68c............
                .
                .
   113          .-------->   D68cP
   111        D68c
                .
                .
   118          .-------->   D68cS
   116       D68cW
                V
                V
   121       R68cW
                .
                .
   127          .         72c
                .           .
                .           .
   134        C72c............
                .
                .
   139          .-------->   D72cP
   137        D72c
                .
                .
   144          .-------->   D72cS
   142       D72cW
                V
                V
   147       R72cW
                .
                .
   153          .         76C
                .           .
                .           .
   160        C76c............
                .
                .
   165          .-------->    D76c
   163       D76cP
                .
                .
   168          .         84c
                .           .
                .           .
   177          .           .-------->   D84cS
   175          .       D84cE
                .           V
                .           V
   180          .       R84cE
                .           .
                .           .
   186          .           .         80c
                .           .           V
                .           .           V
   193          .           .        S80c
                .           .           .
                .           .           .
   199          .        C80c............
                .           .
                .           .
   204          .           .-------->    D80c
   202          .       D80cP
                .           .
                .           .
   207       C76cP............
                V
```

```
            V
210      P76cS
            .
            .
215         .-------> D80eP1
213     D76eP1
            .
            .
218         .        56e
            .          .
            .          .
227         .          .-------> D56eS
225         .      D56eW
            .          V
            .          V
230         .      R56eW
            .          .
            .          .
236         .          .        60e
            .          .          .
            .          .          .
243         .       C60e...........
            .          .
            .          .
248         .          .-------> D60eP
246         .       D60e
            .          .
            .          .
253         .          .-------> D60eS
251         .      D60eW
            .          V
            .          V
256         .      R60eW
            .          .
            .          .
262         .          .        64e
            .          .          .
            .          .          .
271         .          .          .          .<-------  D64cS
269         .          .          .      B64cS
            .          .          .          V
            .          .          .          V
272         .          .          .      R64cS
            .          .          .          .
            .          .          .          .
278         .       C64e......................
            .          .
            .          .
283         .          .-------> D64eS
281         .      D64eW
            .          V
            .          V
286         .      R64eW
            .          .
            .          .
292         .          .        68e
            .          .          .
            .          .          .
301         .          .          .          .<-------  D68cP
299         .          .          .      B68cP
            .          .          .          V
            .          .          .          V
302         .          .          .      P68cS
            .          .          .          .
            .          .          .          .
307         .          .          .          .          .<-------  D68cS
305         .          .          .          .      B68cS
            .          .          .          .          V
            .          .          .          .          V
308         .          .          .          .      R68cS
            .          .          .          .          .
            .          .          .          .          .
314         .          .          .      C68cS...........
            .          .          .          .
            .          .          .          .
317         .       C68e......................
            .          .
            .          .
322         .          .-------> D68eP
320         .       D68e
            .          .
            .          .
327         .          .-------> D68eS
325         .      D68eW
            .          V
            .          V
```

```
330          .       R68eW
             .           .
             .           .
336          .           .         72e
             .           .           .
             .           .           .
345          .           .           .          .<-------   D72cP
343          .           .           .      B72cP
             .           .           .          V
             .           .           .          V
346          .           .           .      P72cS
             .           .           .          .
             .           .           .          .
351          .           .           .          .           .<-------   D72cS
349          .           .           .          .       B72cS
             .           .           .          .           V
             .           .           .          .           V
352          .           .           .          .       R72cS
             .           .           .          .           .
             .           .           .          .           .
358          .           .           .      C72cS............
             .           .           .          .
             .           .           .          .
361          .        C72e........................
             .           .
             .           .
366          .           .------->   D72eP
364          .        D72e
             .           .
             .           .
371          .           .------->   D72eS
369          .       D72eW
             .           V
             .           V
374          .       R72eW
             .           .
             .           .
380          .           .         76e
             .           .           .
             .           .           .
389          .           .           .          .<-------    D76c
387          .           .           .       B76c
             .           .           .          V
             .           .           .          V
390          .           .           .      R76cS
             .           .           .          .
             .           .           .          .
396       C76e....................................
             .
             .
401          .------->    D76e
399       D76eP
             .
             .
406          .           .<-------   D84cS
404          .      BD84cS
             .           V
             .           V
407          .       R84cS
             .           .
             .           .
413          .           .         84e
             .           .           .
             .           .           .
420          .        C84e............
             .           .
             .           .
425          .           .------->   D84eS
423          .       D84eE
             .           V
             .           V
428          .       R84eE
             .           .
             .           .
434          .           .         80e
             .           .           .
             .           .           .
443          .           .           .          .<-------  D80eP1
441          .           .           .     B80eP1
             .           .           .          .
             .           .           .          .
446          .           .           .          .           .<-------    D80c
444          .           .           .          .       BD80c
             .           .           .          .           V
             .           .           .          .           V
447          .           .           .          .       R80cS
```

```
                .           .           .           .           .
                .           .           .           .           .
453             .        C80e.................................
                .           .
                .           .
458             .           .-------->    D80e
456             .       D80eP
                .           .
                .           .
461        C76eP............
               V
               V
464        P76eS
                .
                .
469             .-------->  D80gP1
467       D76gP1
                .
                .
472             .         76g
                .           .
                .           .
481             .           .           .<-------    D76e
479             .           .       BD76e
                .           .           V
                .           .           V
482             .           .       R76eS
                .           .           .
                .           .           .
488         C76g........................
                .
                .
493             .-------->  D76gP2
491        D76g1
                .
                .
498             .-------->   D76gP
496         D76g
                .
                .
503             .-------->   D76gS
501        D76gE
               V
               V
506        R76gE
                .
                .
514             .           .<-------  D76gP2
512             .      B76gP2
                .           .
                .           .
515        C76gE............
                .
                .
518             .         54g
                .           .
                .           .
527             .           .-------->   D54gS
525             .       D54gW
                .           V
                .           V
530             .       R54gW
                .           .
                .           .
536             .           .         56g
                .           .           .
                .           .           .
545             .           .           .           .<-------   D56eS
543             .           .           .       B56eS
                .           .           .           V
                .           .           .           V
546             .           .           .       R56eS
                .           .           .           .
                .           .           .           .
552             .        C56g........................
                .           .
                .           .
557             .           .-------->   D56gP
555             .        D56g
                .           .
                .           .
562             .           .-------->   D56gS
560             .       D56gW
                .           V
                .           V
565             .       R56gW
```

```
571                 60g
580                                .<-------   D60eP
578             B60eP
                    V
                    V
581             P60eS
586                                            .<-------   D60eS
584                                    B60eS
                                           V
                                           V
587                                    R60eS
593             C60eS............
596         C60g......................
601             .------->   D60gP
599         D60g
606             .------->   D60gS
604         D60gW
                V
                V
609         R60gW
615                 64g
624                                .<-------   D64eS
622             B64eS
                    V
                    V
625             R64eS
631         C64g......................
636             .------->   D64gP
634         D64g
641             .------->   D64gS
639         D64gW
                V
                V
644         R64gW
650                 68g
659                                .<-------   D68eP
657             B68eP
                    V
                    V
660             P68eS
665                                            .<-------   D68eS
663                                    B68eS
                                           V
                                           V
666                                    R68eS
672             C68eS............
675         C68g......................
680             .------->   D68gP
678         D68g
```

```
685          .           .-------->   D68gS
683          .       D68gW
             .           V
             .           V
688          .       R68gW
             .           .
             .           .
694          .           .        72g
             .           .           .
             .           .           .
703          .           .           .           .<-------   D72eP
701          .           .           .       B72eP
             .           .           .           V
             .           .           .           V
704          .           .           .       P72eS
             .           .           .           .
             .           .           .           .
709          .           .           .           .           .<-------   D72eS
707          .           .           .           .       B72eS
             .           .           .           .           V
             .           .           .           .           V
710          .           .           .           .       R72eS
             .           .           .           .           .
             .           .           .           .           .
716          .           .           .       C72eS............
             .           .           .           .
             .           .           .           .
719          .        C72g........................
             .           .
             .           .
722      CC72g............
             .
             .
727          .-------->   D72gP
725       D72g
             V
             V
730      R72gS
             .
             .
738          .           .<-------   D72gP
736          .      BD72gP
             .           V
             .           V
739          .       P72gS
             .           .
             .           .
742      C72gS............
             .
             .
745          .         84g
             .           .
             .           .
754          .           .           .<-------   D84eS
752          .           .       B84eS
             .           .           V
             .           .           V
755          .           .       R84eS
             .           .           .
             .           .           .
761          .        C84g............
             .           .
             .           .
766          .           .-------->   D84gS
764          .       D84gE
             .           V
             .           V
769          .       R84gE
             .           .
             .           .
775          .           .         80g
             .           .           .
             .           .           .
784          .           .           .           .<-------    D80e
782          .           .           .       BD80e
             .           .           .           V
             .           .           .           V
785          .           .           .       R80eS
             .           .           .           .
             .           .           .           .
793          .           .           .           .           .<-------  D80gP1
791          .           .           .           .      B80gP1
             .           .           .           .           .
             .           .           .           .           .
794          .        C80g.................................
```

```
              .           .
              .           .
799           .           .-------->    D80g
797           .       D80gP
              .           .
              .           .
804           .           .           .<-------   D76gP
802           .           .       B76gP
              .           .           .
              .           .           .
805           .       C76gP............
              .           V
              .           V
808           .       P76gS
              .           .
              .           .
813           .           .-------->  D80iP1
811           .      D76iP1
              .           .
              .           .
816           .           .         76i
              .           .           .
              .           .           .
825           .           .           .           .<-------   D76gS
823           .           .           .      BD76gS
              .           .           .           V
              .           .           .           V
826           .           .           .       R76gS
              .           .           .           .
              .           .           .           .
832           .        C76i........................
              .           .
              .           .
837           .           .-------->   D76i1
835           .      D76iP2
              .           .
              .           .
840           .           .         72i
              .           .           .
              .           .           .
847        C72i........................
              .
              .
853           .-------->    D72i
850       D72iP
              .
              .
859           .-------->  D72iP1
856      D72iP2
              V
              V
862       P72iW
              .
              .
867           .           .<-------   D76i1
865           .      BD76i1
              .           .
              .           .
868       CC76i............
              .
              .
873           .-------->    D76i
871       D76iP
              .
              .
878           .           .<-------   D84gS
876           .      BD84gS
              .           V
              .           V
879           .       R84gS
              .           .
              .           .
885           .           .         84i
              .           .           .
              .           .           .
892           .        C84i............
              .           V
              .           V
895           .        S84i
              .           .
              .           .
903           .           .-------->   D84iS
901           .       D84iE
              .           V
              .           V
906           .       R84iE
```

```
                .           .
                .           .
912             .           .         80i
                .           .           .
                .           .           .
921             .           .           .           .<-------    D80g
919             .           .           .       BD80g
                .           .           .           V
                .           .           .           V
922             .           .           .        S80g
                .           .           .           V
                .           .           .           V
929             .           .           .       R80gS
                .           .           .           .
                .           .           .           .
937             .           .           .           .           .<-------  D80iP1
935             .           .           .           .      B80iP1
                .           .           .           .           .
                .           .           .           .           .
938             .        C80i.................................
                .           .
                .           .
943             .           .------->    D80i
941             .       D80iP
                .           .
                .           .
946       C76iP............
              V
              V
949       P76iS
                .
                .
954             .------->  D80kP1
952      D76kP1
                .
                .
957             .         76k
                .           .
                .           .
966             .           .           .<-------    D76i
964             .           .       BD76i
                .           .           .
                .           .           .
969             .           .           .------->   D76iE
967             .           .       D76iS
                .           .           V
                .           .           V
972             .           .       R76iS
                .           .           .
                .           .           .
978        C76k......................
                .
                .
984             .------->   D76k1
981      D76kP2
                .
                .
987             .         54i
                .           .
                .           .
996             .           .           .<-------   D54gS
994             .           .      BD54gS
                .           .           V
                .           .           V
997             .           .       R54gS
                .           .           .
                .           .           .
1003            .        C54i............
                .           .
                .           .
1008            .           .------->   D54iP
1006            .        D54i
                .           .
                .           .
1013            .           .------->   D54iS
1011            .       D54iW
                .           V
                .           V
1016            .       R54iW
                .           .
                .           .
1022            .           .         56i
                .           .           .
                .           .           .
1031            .           .           .           .<-------   D56gP
1029            .           .           .      BD56gP
```

```
                .           .           .           V
                .           .           .           V
1032            .           .           .       P56gS
                .           .           .           .
                .           .           .           .
1037            .           .           .           .           .<-------   D56gS
1035            .           .           .           .      BD56gS
                .           .           .           .           V
                .           .           .           .           V
1038            .           .           .           .       R56gS
                .           .           .           .           .
                .           .           .           .           .
1044            .           .           .       C56gS............
                .           .           .           .
                .           .           .           .
1047            .        C56i........................
                .           .
                .           .
1052            .           .------->   D56iP
1050            .        D56i
                .           .
                .           .
1057            .           .------->   D56iS
1055            .       D56iW
                .           V
                .           V
1060            .       R56iW
                .           .
                .           .
1066            .           .         60i
                .           .           .
                .           .           .
1075            .           .           .           .<-------   D60gP
1073            .           .           .      BD60gP
                .           .           .           V
                .           .           .           V
1076            .           .           .       P60gS
                .           .           .           .
                .           .           .           .
1081            .           .           .           .           .<-------   D60gS
1079            .           .           .           .      BD60gS
                .           .           .           .           V
                .           .           .           .           V
1082            .           .           .           .       R60gS
                .           .           .           .           .
                .           .           .           .           .
1088            .           .           .       C60gS............
                .           .           .           .
                .           .           .           .
1091            .        C60i........................
                .           .
                .           .
1097            .           .------->   D60iP
1094            .        D60i
                .           .
                .           .
1102            .           .------->   D60iS
1100            .       D60iW
                .           V
                .           V
1105            .       R60iW
                .           .
                .           .
1113            .           .           .<-------   D64gP
1111            .           .      BD64gP
                .           .           V
                .           .           V
1114            .           .       P64gS
                .           .           .
                .           .           .
1119            .           .           .           .<-------   D64gS
1117            .           .           .      BD64gS
                .           .           .           V
                .           .           .           V
1120            .           .           .       R64gS
                .           .           .           .
                .           .           .           .
1126            .           .       C64gS............
                .           .           .
                .           .           .
1129            .           .           .         64i
                .           .           .           .
                .           .           .           .
1136            .        C64i........................
                .           .
                .           .
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1141          .          .-------->   D64iP
1139          .       D64i
              .          .
              .          .
1146          .          .-------->   D64iS
1144          .      D64iW
              .          V
              .          V
1149          .      R64iW
              .          .
              .          .
1155          .          .        68i
              .          .          .
              .          .          .
1164          .          .          .          .<-------   D68gP
1162          .          .          .     BD68gP
              .          .          .          V
              .          .          .          V
1165          .          .          .      P68gS
              .          .          .          .
              .          .          .          .
1170          .          .          .          .          .<-------   D68gS
1168          .          .          .          .     BD68gS
              .          .          .          .          V
              .          .          .          .          V
1171          .          .          .          .      R68gS
              .          .          .          .          .
              .          .          .          .          .
1177          .          .          .      C68gS............
              .          .          .          .
              .          .          .          .
1180          .       C68i........................
              .          .
              .          .
1185          .          .          .<-------    D72i
1183          .          .      BD72i
              .          .          .
              .          .          .
1188          .          .          .          .<-------   D76iE
1186          .          .          .      B76iE
              .          .          .          V
              .          .          .          V
1189          .          .          .      R76iE
              .          .          .          .
              .          .          .          .
1195          .          .      CC72i............
              .          .          .
              .          .          .
1200          .          .          .-------->   D72iS
1198          .          .      D72iE
              .          .          V
              .          .          V
1203          .          .      R72iE
              .          .          .
              .          .          .
1209          .      CC68i............
              .          .
              .          .
1214          .          .-------->   D68iP
1212          .       D68i
              .          V
              .          V
1217          .      R68iS
              .          .
              .          .
1225          .          .          .<-------   D68iP
1223          .          .     BD68iP
              .          .          V
              .          .          V
1226          .          .      P68iS
              .          .          .
              .          .          .
1229          .      C68iS............
              .          .
              .          .
1232          .          .        36i
              .          .          .
              .          .          .
1241          .          .          .-------->   D36iP
1239          .          .       D36i
              .          .          .
              .          .          .
1246          .          .          .-------->   D36iS
1244          .          .      D36iW
              .          .          V
              .          .          V
```

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1249          .           .       R36iW
              .           .           .
              .           .           .
1255          .           .           .         40i
              .           .           .           V
              .           .           .           V
1262          .           .           .        S40i
              .           .           .           .
              .           .           .           .
1268          .           .        C40i...........
              .           .           .
              .           .           .
1273          .           .           .-------->   D40iS
1271          .           .       D40iW
              .           .           V
              .           .           V
1276          .           .       R40iW
              .           .           .
              .           .           .
1282          .           .           .         44i
              .           .           .           .
              .           .           .           .
1289          .           .           .           .         42i
              .           .           .           .           V
              .           .           .           .           V
1296          .           .           .           .       R42iW
              .           .           .           .           .
              .           .           .           .           .
1302          .           .        C44i......................
              .           .           .
              .           .           .
1307          .           .           .-------->   D44iP
1305          .           .        D44i
              .           .           .
              .           .           .
1312          .           .           .-------->   D44iS
1310          .           .       D44iW
              .           .           V
              .           .           V
1315          .           .       R44iW
              .           .           .
              .           .           .
1321          .           .           .         48i
              .           .           .           .
              .           .           .           .
1328          .           .        C48i...........
              .           .           .
              .           .           .
1333          .           .           .-------->   D48iP
1331          .           .        D48i
              .           .           .
              .           .           .
1338          .           .           .-------->   D48iS
1336          .           .       D48iW
              .           .           V
              .           .           V
1341          .           .       R48iW
              .           .           .
              .           .           .
1349          .           .           .           .<--------   D48iP
1347          .           .           .      BD48iP
              .           .           .           V
              .           .           .           V
1350          .           .           .       P48iW
              .           .           .           .
              .           .           .           .
1353          .           .       C48iW...........
              .           .           .
              .           .           .
1356          .           .           .         52g
              .           .           .           V
              .           .           .           V
1363          .           .           .       R52gS
              .           .           .           .
              .           .           .           .
1369          .           .           .           .         52i
              .           .           .           .           .
              .           .           .           .           .
1376          .           .        C52i......................
              .           .           .
              .           .           .
1382          .           .           .-------->   DB52i
1379          .           .        E52i
              .           .           .
              .           .           .
1387          .           .           .           .<--------   DB52i
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1385          .          .          .      BDB52i
              .          .          .          V
              .          .          .          V
1388          .          .          .       S52i
              .          .          .          .
              .          .          .          .
1394          .          .      CC52i............
              .          .          .
              .          .          .
1399          .          .          .-------->   D52iP
1397          .          .       D52i
              .          .          V
              .          .          V
1402          .          .      R52iS
              .          .          .
              .          .          .
1410          .          .          .          .<--------   D52iP
1408          .          .          .      BD52iP
              .          .          .          V
              .          .          .          V
1411          .          .          .      P52iS
              .          .          .          .
              .          .          .          .
1414          .          .      C52iS............
              .          .          .
              .          .          .
1417          .          .          .        24k
              .          .          .          .
              .          .          .          .
1426          .          .          .          .-------->   D24kS
1424          .          .          .      D24kW
              .          .          .          V
              .          .          .          V
1429          .          .          .      R24kW
              .          .          .          .
              .          .          .          .
1435          .          .          .          .       ARC40
              .          .          .          .           V
              .          .          .          .           V
1441          .          .          .          .      PARC40
              .          .          .          .           .
              .          .          .          .           .
1444          .          .          .          .           .         28k
              .          .          .          .           .           .
              .          .          .          .           .           .
1451          .          .          .       C28k.......................
              .          .          .          .
              .          .          .          .
1456          .          .          .          .-------->   D28kP
1454          .          .          .       D28k
              .          .          .          .
              .          .          .          .
1461          .          .          .          .-------->   D28kS
1459          .          .          .      D28kW
              .          .          .          V
              .          .          .          V
1464          .          .          .      R28kW
              .          .          .          .
              .          .          .          .
1470          .          .          .          .         32k
              .          .          .          .           .
              .          .          .          .           .
1477          .          .          .       C32k............
              .          .          .          .
              .          .          .          .
1482          .          .          .          .-------->   D32kP
1480          .          .          .       D32k
              .          .          .          .
              .          .          .          .
1487          .          .          .          .-------->   D32kS
1485          .          .          .      D32kW
              .          .          .          V
              .          .          .          V
1490          .          .          .      R32kW
              .          .          .          .
              .          .          .          .
1496          .          .          .          .         36k
              .          .          .          .           .
              .          .          .          .           .
1505          .          .          .          .           .          .<--------   D36iP
1503          .          .          .          .           .      BD36iP
              .          .          .          .           .          V
              .          .          .          .           .          V
1506          .          .          .          .           .      P36iS
              .          .          .          .           .          .
              .          .          .          .           .          .
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1511   .   .   .   .   .   .   .<-------   D36iS
1509   .   .   .   .   .   .   BD36iS
       .   .   .   .   .   .       V
       .   .   .   .   .   .       V
1512   .   .   .   .   .   .   R36iS
       .   .   .   .   .   .       .
       .   .   .   .   .   .       .
1518   .   .   .   .   .   C36iS...........
       .   .   .   .   .   .       .
       .   .   .   .   .   .       .
1521   .   .   .   C36k......................
       .   .   .   .
       .   .   .   .
1526   .   .   .   .------->   D36kP
1524   .   .   .   D36k
       .   .   .   .
       .   .   .   .
1531   .   .   .   .------->   D36kS
1529   .   .   .   D36kW
       .   .   .       V
       .   .   .       V
1534   .   .   .   R36kW
       .   .   .   .
       .   .   .   .
1542   .   .   .   .   .<-------   D40iS
1540   .   .   .   .   BD40iS
       .   .   .   .       V
       .   .   .   .       V
1543   .   .   .   .   R40iS
       .   .   .   .       .
       .   .   .   .       .
1549   .   .   .   .       .   40k
       .   .   .   .       .     .
       .   .   .   .       .     .
1556   .   .   .   C40k......................
       .   .   .   .
       .   .   .   .
1561   .   .   .   .------->   D40kP
1559   .   .   .   D40k
       .   .   .   .
       .   .   .   .
1566   .   .   .   .------->   D40kS
1564   .   .   .   D40kW
       .   .   .       V
       .   .   .       V
1569   .   .   .   R40kW
       .   .   .   .
       .   .   .   .
1575   .   .   .   .   44k
       .   .   .   .     .
       .   .   .   .     .
1584   .   .   .   .     .   .<-------   D44iP
1582   .   .   .   .     .   BD44iP
       .   .   .   .     .       V
       .   .   .   .     .       V
1585   .   .   .   .     .   P44iS
       .   .   .   .     .       .
       .   .   .   .     .       .
1590   .   .   .   .     .       .   .<-------   D44iS
1588   .   .   .   .     .       .   BD44iS
       .   .   .   .     .       .       V
       .   .   .   .     .       .       V
1591   .   .   .   .     .       .   R44iS
       .   .   .   .     .       .       .
       .   .   .   .     .       .       .
1597   .   .   .   .     .       C44iS...........
       .   .   .   .     .       .       .
       .   .   .   .     .       .       .
1600   .   .   .   C44k......................
       .   .   .   .
       .   .   .   .
1605   .   .   .   .------->   D44kP
1603   .   .   .   D44k
       .   .   .   .
       .   .   .   .
1610   .   .   .   .------->   D44kS
1608   .   .   .   D44kW
       .   .   .       V
       .   .   .       V
1613   .   .   .   R44kW
       .   .   .   .
       .   .   .   .
1619   .   .   .   .   48k
       .   .   .   .     V
       .   .   .   .     V
1626   .   .   .   .   S48k
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Metro ADMS/P 100-Year, 6-Hour Model

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                .           .           .           .           .
                .           .           .           .           .
1634            .           .           .           .           .           .<-------   D48iS
1632            .           .           .           .           .     BD48iS
                .           .           .           .           .          V
                .           .           .           .           .          V
1635            .           .           .           .           .      R48iS
                .           .           .           .           .           .
                .           .           .           .           .           .
1641            .           .           .       C48k.......................
                .           .           .           .
                .           .           .           .
1646            .           .           .           .-------->   D48kS
1644            .           .           .      D48kW
                .           .           .           V
                .           .           .           V
1649            .           .           .      R48kW
                .           .           .           .
                .           .           .           .
1655            .           .           .           .         52k
                .           .           .           .           .
                .           .           .           .           .
1662            .           .       C52k.......................
                .           .           .
                .           .           .
1667            .           .           .-------->   D52kP
1665            .           .       D52k
                .           .           .
                .           .           .
1672            .           .           .-------->   D52kS
1670            .           .      D52kW
                .           .          V
                .           .          V
1675            .           .      R52kW
                .           .           .
                .           .           .
1683            .           .           .<-------   D54iP
1681            .           .      BD54iP
                .           .           V
                .           .           V
1684            .           .      P54iS
                .           .           .
                .           .           .
1689            .           .           .           .<-------   D54iS
1687            .           .           .      BD54iS
                .           .           .           V
                .           .           .           V
1690            .           .           .       R54iS
                .           .           .           .
                .           .           .           .
1696            .           .           .      C54iS............
                .           .           .           .
                .           .           .           .
1699            .           .           .           .         54k
                .           .           .           .           .
                .           .           .           .           .
1706            .           .       C54k.......................
                .           .           .
                .           .           .
1711            .           .           .-------->   D54kP
1709            .           .       D54k
                .           .           .
                .           .           .
1716            .           .           .-------->   D54kS
1714            .           .      D54kW
                .           .          V
                .           .          V
1719            .           .      R54kW
                .           .           .
                .           .           .
1727            .           .           .<-------   D56iP
1725            .           .      BD56iP
                .           .           V
                .           .           V
1728            .           .      P56iS
                .           .           .
                .           .           .
1733            .           .           .           .<-------   D56iS
1731            .           .           .      BD56iS
                .           .           .           V
                .           .           .           V
1734            .           .           .       R56iS
                .           .           .           .
                .           .           .           .
1740            .           .           .      C56iS............
                .           .           .           .
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1743                                                  56k
                                                       .
                                                       .
1750                                C56k.......................
                                     .
                                     .
1755                                                .<-------   D60iP
1753                                     BD60iP
                                                    .
                                                    .
1759                                                .------->  D60iP2
1756                                     D60iP1
                                                   V
                                                   V
1762                                     P60iS1
                                                    .
                                                    .
1767                                                .           .<-------  D60iP2
1765                                                .      B60iP2
                                                    .           V
                                                    .           V
1768                                                .      P60iS2
                                                    .           .
                                                    .           .
1773                                                .           .           .<-------   D60iS
1771                                                .           .      BD60iS
                                                    .           .           V
                                                    .           .           V
1774                                                .           .       R60iS
                                                    .           .           .
                                                    .           .           .
1780                                      C60iS.......................
                                                    .
                                                    .
1783                                                .           .         60k
                                                    .           .           .
                                                    .           .           .
1790                                       C60k............
                                                    .
                                                    .
1796                                                .------->    D60k
1793                                      D60kP
                                                    .
                                                    .
1803                                                .------->  D60kP2
1799                                     D60kP1
                                                   V
                                                   V
1806                                      P60kE
                                                    .
                                                    .
1809                                CC56k............
                                         .
                                         .
1814                                     .------->   D56kP
1812                                 D56k
                                         .
                                         .
1819                                     .------->   D56kS
1817                                D56kW
                                        V
                                        V
1822                                R56kW
                                         .
                                         .
1830                                                .<-------    D60k
1828                                      BD60k
                                                    .
                                                    .
1831                                CC60k............
                                         .
                                         .
1836                                     .------->   D60kS
1834                                D60kW
                                        V
                                        V
1839                                R60kW
                                         .
                                         .
1845                                         64k
                                                    .
                                                    .
1854                                                .           .<-------   D64iS
1852                                                .      BD64iS
                                                    .           V
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                .           .           .           .           V
1855            .           .           .           .       R64iS
                .           .           .           .           .
                .           .           .           .           .
1861            .           .       C64k.......................
                .           .          V
                .           .          V
1864            .           .       S64k
                .           .           .
                .           .           .
1872            .           .           .           .<-------   D64iP
1870            .           .           .      BD64iP
                .           .           .           V
                .           .           .           V
1873            .           .           .       P64iS
                .           .           .           .
                .           .           .           .
1876            .           .      CC64k............
                .           .           .
                .           .           .
1881            .           .           .-------> D64kP
1879            .           .       D64k
                .           .           .
                .           .           .
1886            .           .           .------->   D64kS
1884            .           .      D64kW
                .           .          V
                .           .          V
1889            .           .      R64kW
                .           .           .
                .           .           .
1895            .           .           .         68k
                .           .           .           .
                .           .           .           .
1902            .        C68k........................
                .           .
                .           .
1907            .           .------->   D68kP
1905            .        D68k
                .           .
                .           .
1912            .           .------->   D68kS
1910            .       D68kW
                .           V
                .           V
1915            .       R68kW
                .           .
                .           .
1921            .           .         72k
                .           .          V
                .           .          V
1928            .           .       S72k
                .           .           .
                .           .           .
1936            .           .           .           .<-------  D72iP1
1934            .           .           .      B72iP1
                .           .           .           V
                .           .           .           V
1937            .           .           .       P72iS
                .           .           .           .
                .           .           .           .
1942            .           .           .           .           .<-------   D72iS
1940            .           .           .           .      BD72iS
                .           .           .           .           V
                .           .           .           .           V
1943            .           .           .           .       R72iS
                .           .           .           .           .
                .           .           .           .           .
1949            .           .           .       C72iS............
                .           .           .           .
                .           .           .           .
1952            .        C72k........................
                .           .
                .           .
1955        CC72k............
                .
                .
1960            .------->   D72kP
1958         D72k
                .
                .
1965            .------->   D72kS
1963        D72kW
                V
                V
1968        R72kW
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                .
                .
1976            .           .<-------   D76k1
1974            .       B76k1
                .           .
                .           .
1977        CC76k............
                .
                .
1982            .------->   D76kP
1980         D76k
                .
                .
1987            .------->   D76kS
1985        D76kW
                V
                V
1990        R76kW
                .
                .
1996            .         80k
                .           .
                .           .
2005            .           .           .<-------    D80i
2003            .           .       BD80i
                .           .           V
                .           .           V
2006            .           .       R80iS
                .           .           .
                .           .           .
2014            .           .           .           .<-------  D80kP1
2012            .           .           .      B80kP1
                .           .           .           .
                .           .           .           .
2015            .        C80k........................
                .           .
                .           .
2020            .           .------->   D80kP
2018            .        D80k
                .           .
                .           .
2023        CC80k............
                .
                .
2028            .------->   D80kS
2026        D80kW
                V
                V
2031        R80kW
                .
                .
2037            .         84k
                .           .
                .           .
2046            .           .           .<-------   D84iS
2044            .           .      BD84iS
                .           .           V
                .           .           V
2047            .           .       R84iS
                .           .           .
                .           .           .
2053         C84k........................
                V
                V
2056        R84kS
                .
                .
2062            .         84m
                .           .
                .           .
2069         C84m............
                .
                .
2072            .         I17
                .           .
                .           .
2081            .           .------->   D84mP
2079            .        D84m
                .           .
                .           .
2084        CC84m............
                .
                .
2089            .------->   D84mS
2087        D84mE
                V
```

Metro ADMS/P 100-Year, 6-Hour Model

```
                V
2092        R84mE
                .
                .
2098            .          80m
                .            .
                .            .
2107            .            .            .<-------   D80kS
2105            .            .       BD80kS
                .            .            V
                .            .            V
2108            .            .        R80kS
                .            .            .
                .            .            .
2114         C80m.......................
                .
                .
2119            .------->   D80mS
2117        D80mE
                V
                V
2122        R80mE
                .
                .
2128            .          76l
                .            .
                .            .
2137            .            .            .<-------   D80kP
2135            .            .       BD80kP
                .            .            .
                .            .            .
2140            .            .            .           .<-------   D76kP
2138            .            .            .       BD76kP
                .            .            .           .
                .            .            .           .
2141            .            .        C76kP............
                .            .            V
                .            .            V
2144            .            .        P76kS
                .            .            .
                .            .            .
2149            .            .            .           .<-------   D76kS
2147            .            .            .       BD76kS
                .            .            .           V
                .            .            .           V
2150            .            .            .        R76kS
                .            .            .           .
                .            .            .           .
2156            .            .        C76kS............
                .            .            .
                .            .            .
2159            .         C76l............
                .            .
                .            .
2164            .            .-------->   D76lP
2162            .         D76l
                .            V
                .            V
2167            .        R76lS
                .            .
                .            .
2175            .            .            .<-------   D76lP
2173            .            .       BD76lP
                .            .            V
                .            .            V
2176            .            .        P76lS
                .            .            .
                .            .            .
2179            .        C76lS............
                .            .
                .            .
2182            .            .          76m
                .            .            V
                .            .            V
2189            .            .         S76m
                .            .            .
                .            .            .
2195         C76m.......................
                .
                .
2201            .-------->    D76m
2198        D76mP
                .
                .
2207            .-------->  D76mP2
2204       D76mP1
```

Metro ADMS/P 100-Year, 6-Hour Model

```
                .
                .
2210            .         721
                .           .
                .           .
2219            .           .           .<-------   D72kP
2217            .           .      BD72kP
                .           .           V
                .           .           V
2220            .           .       P72kS
                .           .           .
                .           .           .
2225            .           .           .           .<-------   D72kS
2223            .           .           .      BD72kS
                .           .           .           V
                .           .           .           V
2226            .           .           .       R72kS
                .           .           .           .
                .           .           .           .
2232            .           .       C72kS............
                .           .           .
                .           .           .
2235            .        C721............
                .           .
                .           .
2240            .           .------->   D721P
2238            .        D721
                .           V
                .           V
2243            .       R721S
                .           .
                .           .
2251            .           .           .<-------   D721P
2249            .           .      BD721P
                .           .           V
                .           .           V
2252            .           .       P721S
                .           .           .
                .           .           .
2255            .       C721S............
                .           .
                .           .
2258            .           .         72m
                .           .           .
                .           .           .
2265        C72m........................
                .
                .
2268            .         601
                .           .
                .           .
2277            .           .           .<-------  D60kP2
2275            .           .      B60kP2
                .           .           V
                .           .           V
2278            .           .       P60kS
                .           .           .
                .           .           .
2283            .           .           .           .<-------   D60kS
2281            .           .           .      BD60kS
                .           .           .           V
                .           .           .           V
2284            .           .           .       R60kS
                .           .           .           .
                .           .           .           .
2290            .           .       C60kS............
                .           .           .
                .           .           .
2293            .        C601............
                .           .
                .           .
2298            .           .------->   D601P
2296            .        D601
                .           .
                .           .
2303            .           .------->   D601S
2301            .       D601W
                .           V
                .           V
2306            .       R601W
                .           .
                .           .
2312            .           .         641
                .           .           .
                .           .           .
2321            .           .           .           .<-------   D64kS
```

```
2319          .           .           .      BD64kS
              .           .           .           V
              .           .           .           V
2322          .           .           .       R64kS
              .           .           .           .
              .           .           .           .
2328          .        C641.......................
              .           V
              .           V
2331          .        S641
              .           .
              .           .
2339          .           .           .<-------   D64kP
2337          .           .      BD64kP
              .           .           V
              .           .           V
2340          .           .       P64kS
              .           .           .
              .           .           .
2343          .       CC641............
              .           .
              .           .
2348          .           .------->   D641P
2346          .        D641
              .           .
              .           .
2353          .           .------->   D641S
2351          .       D641W
              .           V
              .           V
2356          .       R641W
              .           .
              .           .
2362          .           .         681
              .           .           .
              .           .           .
2371          .           .           .           .<-------   D68kP
2369          .           .           .      BD68kP
              .           .           .           V
              .           .           .           V
2372          .           .           .       P68kS
              .           .           .           .
              .           .           .           .
2377          .           .           .           .           .<-------   D68kS
2375          .           .           .           .      BD68kS
              .           .           .           .           V
              .           .           .           .           V
2378          .           .           .           .       R68kS
              .           .           .           .           .
              .           .           .           .           .
2384          .           .           .       C68kS............
              .           .           .           .
              .           .           .           .
2387          .        C681.......................
              .           .
              .           .
2392          .           .------->   D681P
2390          .        D681
              .           V
              .           V
2395          .       R681S
              .           .
              .           .
2403          .           .           .<-------   D681P
2401          .           .      BD681P
              .           .           V
              .           .           V
2404          .           .       P681S
              .           .           .
              .           .           .
2407          .       C681S............
              .           .
              .           .
2410          .           .         24m
              .           .           V
              .           .           V
2417          .           .        S24m
              .           .           .
              .           .           .
2425          .           .           .           .<-------   D24kS
2423          .           .           .      BD24kS
              .           .           .           V
              .           .           .           V
2426          .           .           .       R24kS
              .           .           .           .
              .           .           .           .
```

```
2432          .          .        C24m...........
              .          .           .
              .          .           .
2437          .          .           .-------> D24mS
2435          .          .       D24mW
              .          .           V
              .          .           V
2440          .          .       R24mW
              .          .           .
              .          .           .
2446          .          .           .        28m
              .          .           .          .
              .          .           .          .
2455          .          .           .          .          .<-------   D28kP
2453          .          .           .          .     BD28kP
              .          .           .          .          V
              .          .           .          .          V
2456          .          .           .          .      P28kS
              .          .           .          .          .
              .          .           .          .          .
2461          .          .           .          .          .           .<-------   D28kS
2459          .          .           .          .          .      BD28kS
              .          .           .          .          .           V
              .          .           .          .          .           V
2462          .          .           .          .          .      R28kS
              .          .           .          .          .           .
              .          .           .          .          .           .
2468          .          .           .          .      C28kS...........
              .          .           .          .          .
              .          .           .          .          .
2471          .          .        C28m.......................
              .          .           .
              .          .           .
2476          .          .           .-------> D28mP
2474          .          .        D28m
              .          .           .
              .          .           .
2481          .          .           .-------> D28mS
2479          .          .       D28mW
              .          .           V
              .          .           V
2484          .          .       R28mW
              .          .           .
              .          .           .
2490          .          .           .        32m
              .          .           .          V
              .          .           .          V
2497          .          .           .       S32m
              .          .           .          .
              .          .           .          .
2505          .          .           .          .          .<-------   D32kP
2503          .          .           .          .     BD32kP
              .          .           .          .          V
              .          .           .          .          V
2506          .          .           .          .      P32kS
              .          .           .          .          .
              .          .           .          .          .
2511          .          .           .          .          .           .<-------   D32kS
2509          .          .           .          .          .      BD32kS
              .          .           .          .          .           V
              .          .           .          .          .           V
2512          .          .           .          .          .      R32kS
              .          .           .          .          .           .
              .          .           .          .          .           .
2518          .          .           .          .      C32kS...........
              .          .           .          .          .
              .          .           .          .          .
2521          .          .        C32m.......................
              .          .           .
              .          .           .
2526          .          .           .-------> D32mP
2524          .          .        D32m
              .          .           .
              .          .           .
2531          .          .           .-------> D32mS
2529          .          .       D32mW
              .          .           V
              .          .           V
2534          .          .       R32mW
              .          .           .
              .          .           .
2540          .          .           .        36m
              .          .           .          .
              .          .           .          .
2549          .          .           .          .          .<-------   D36kP
2547          .          .           .          .     BD36kP
```

```
                 .         .         .         .         V
                 .         .         .         .         V
2550             .         .         .         .      P36kS
                 .         .         .         .         .
                 .         .         .         .         .
2555             .         .         .         .         .          .<-------   D36kS
2553             .         .         .         .         .     BD36kS
                 .         .         .         .         .         V
                 .         .         .         .         .         V
2556             .         .         .         .         .     R36kS
                 .         .         .         .         .         .
                 .         .         .         .         .         .
2562             .         .         .         .      C36kS...........
                 .         .         .         .         .
                 .         .         .         .         .
2565             .         .      C36m.......................
                 .         .         .
                 .         .         .
2570             .         .         .-------> D36mP
2568             .         .      D36m
                 .         .         .
                 .         .         .
2575             .         .         .-------> D36mS
2573             .         .     D36mW
                 .         .         V
                 .         .         V
2578             .         .     R36mW
                 .         .         .
                 .         .         .
2584             .         .         .      40m
                 .         .         .        .
                 .         .         .        .
2593             .         .         .        .         .<-------   D40kP
2591             .         .         .        .     BD40kP
                 .         .         .        .         V
                 .         .         .        .         V
2594             .         .         .        .      P40kS
                 .         .         .        .         .
                 .         .         .        .         .
2599             .         .         .        .         .          .<-------   D40kS
2597             .         .         .        .         .     BD40kS
                 .         .         .        .         .         V
                 .         .         .        .         .         V
2600             .         .         .        .         .     R40kS
                 .         .         .        .         .         .
                 .         .         .        .         .         .
2606             .         .         .        .      C40kS...........
                 .         .         .        .         .
                 .         .         .        .         .
2609             .         .      C40m.......................
                 .         .         .
                 .         .         .
2614             .         .         .-------> D40mP
2612             .         .      D40m
                 .         .         .
                 .         .         .
2619             .         .         .-------> D40mS
2617             .         .     D40mW
                 .         .         V
                 .         .         V
2622             .         .     R40mW
                 .         .         .
                 .         .         .
2628             .         .         .      44m
                 .         .         .        .
                 .         .         .        .
2637             .         .         .        .         .<-------   D44kP
2635             .         .         .        .     BD44kP
                 .         .         .        .         V
                 .         .         .        .         V
2638             .         .         .        .      P44kS
                 .         .         .        .         .
                 .         .         .        .         .
2643             .         .         .        .         .          .<-------   D44kS
2641             .         .         .        .         .     BD44kS
                 .         .         .        .         .         V
                 .         .         .        .         .         V
2644             .         .         .        .         .     R44kS
                 .         .         .        .         .         .
                 .         .         .        .         .         .
2650             .         .         .        .      C44kS...........
                 .         .         .        .         .
                 .         .         .        .         .
2653             .         .      C44m.......................
                 .         .         .
                 .         .         .
```

```
2658          .          .          .-------->   D44mP
2656          .          .      D44m
              .          .          .
              .          .          .
2663          .          .          .-------->   D44mS
2661          .          .     D44mW
              .          .         V
              .          .         V
2666          .          .     R44mW
              .          .          .
              .          .          .
2672          .          .          .        24o
              .          .          .          .
              .          .          .          .
2681          .          .          .          .          .<-------   D24mS
2679          .          .          .      BD24mS
              .          .          .          V
              .          .          .          V
2682          .          .          .       R24mS
              .          .          .          .          .
              .          .          .          .          .
2688          .          .          .      C24o............
              .          .          .          .
              .          .          .          .
2693          .          .          .          .-------->   D24oP
2691          .          .          .      D24o
              .          .          .          .
              .          .          .          .
2698          .          .          .          .-------->   D24oS
2696          .          .          .     D24oW
              .          .          .         V
              .          .          .         V
2701          .          .          .     R24oW
              .          .          .          .
              .          .          .          .
2707          .          .          .          .         28o
              .          .          .          .          .
              .          .          .          .          .
2716          .          .          .          .          .          .<-------   D28mP
2714          .          .          .          .          .     BD28mP
              .          .          .          .          .         V
              .          .          .          .          .         V
2717          .          .          .          .          .      P28mS
              .          .          .          .          .          .
              .          .          .          .          .          .
2722          .          .          .          .          .          .          .<-------   D28mS
2720          .          .          .          .          .          .     BD28mS
              .          .          .          .          .          .         V
              .          .          .          .          .          .         V
2723          .          .          .          .          .          .      R28mS
              .          .          .          .          .          .          .
              .          .          .          .          .          .          .
2729          .          .          .          .          .     C28mS............
              .          .          .          .          .          .
              .          .          .          .          .          .
2732          .          .          .      C28o........................
              .          .          .          .
              .          .          .          .
2737          .          .          .          .-------->   D28oP
2735          .          .          .      D28o
              .          .          .          .
              .          .          .          .
2742          .          .          .          .-------->   D28oS
2740          .          .          .     D28oW
              .          .          .         V
              .          .          .         V
2745          .          .          .     R28oW
              .          .          .          .
              .          .          .          .
2751          .          .          .          .         32o
              .          .          .          .          .
              .          .          .          .          .
2760          .          .          .          .          .          .<-------   D32mS
2758          .          .          .          .          .     BD32mS
              .          .          .          .          .         V
              .          .          .          .          .         V
2761          .          .          .          .          .      R32mS
              .          .          .          .          .          .
              .          .          .          .          .          .
2769          .          .          .          .          .          .          .<-------   D32mP
2767          .          .          .          .          .          .     BD32mP
              .          .          .          .          .          .         V
              .          .          .          .          .          .         V
2770          .          .          .          .          .          .      P32mS
              .          .          .          .          .          .          .
              .          .          .          .          .          .          .
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```
2773          .           .           .           .           .       C32mS............
              .           .           .           .           .           .
              .           .           .           .           .           .
2776          .           .           .       C32o........................
              .           .           .           .
              .           .           .           .
2781          .           .           .           .-------->  D32oP
2779          .           .           .       D32o
              .           .           .           .
              .           .           .           .
2786          .           .           .           .-------->  D32oS
2784          .           .           .      D32oW
              .           .           .          V
              .           .           .          V
2789          .           .           .      R32oW
              .           .           .           .
              .           .           .           .
2795          .           .           .           .        36o
              .           .           .           .           .
              .           .           .           .           .
2804          .           .           .           .           .           .<-------   D36mP
2802          .           .           .           .           .      BD36mP
              .           .           .           .           .           V
              .           .           .           .           .           V
2805          .           .           .           .           .       P36mS
              .           .           .           .           .           .
              .           .           .           .           .           .
2810          .           .           .           .           .           .           .<-------   D36mS
2808          .           .           .           .           .           .      BD36mS
              .           .           .           .           .           .           V
              .           .           .           .           .           .           V
2811          .           .           .           .           .           .       R36mS
              .           .           .           .           .           .           .
              .           .           .           .           .           .           .
2817          .           .           .           .           .           .       C36mS............
              .           .           .           .           .           .           .
              .           .           .           .           .           .           .
2820          .           .           .       C36o........................
              .           .           .           .
              .           .           .           .
2825          .           .           .           .-------->  D36oP
2823          .           .           .       D36o
              .           .           .           .
              .           .           .           .
2830          .           .           .           .-------->  D36oS
2828          .           .           .      D36oW
              .           .           .          V
              .           .           .          V
2833          .           .           .      R36oW
              .           .           .           .
              .           .           .           .
2841          .           .           .           .           .<-------   D40mP
2839          .           .           .           .      B40mP
              .           .           .           .           V
              .           .           .           .           V
2842          .           .           .           .      P40mS
              .           .           .           .           .
              .           .           .           .           .
2847          .           .           .           .           .           .<-------   D40mS
2845          .           .           .           .           .      BD40mS
              .           .           .           .           .           V
              .           .           .           .           .           V
2848          .           .           .           .           .       R40mS
              .           .           .           .           .           .
              .           .           .           .           .           .
2854          .           .           .           .      C40mS............
              .           .           .           .           .
              .           .           .           .           .
2857          .           .           .           .           .        40o
              .           .           .           .           .           .
              .           .           .           .           .           .
2864          .           .           .       C40o........................
              .           .           .           .
              .           .           .           .
2869          .           .           .           .-------->  D40oP
2867          .           .           .       D40o
              .           .           .           .
              .           .           .           .
2874          .           .           .           .-------->  D40oS
2872          .           .           .      D40oW
              .           .           .          V
              .           .           .          V
2877          .           .           .      R40oW
              .           .           .           .
              .           .           .           .
2883          .           .           .           .        44o
```

```
                .         .         .         .         .
                .         .         .         .         .
2892            .         .         .         .         .         .<-------   D44mP
2890            .         .         .         .       BD44mP
                .         .         .         .         V
                .         .         .         .         V
2893            .         .         .         .       P44mS
                .         .         .         .         .
                .         .         .         .         .
2898            .         .         .         .         .         .<-------   D44mS
2896            .         .         .         .         .       BD44mS
                .         .         .         .         .           V
                .         .         .         .         .           V
2899            .         .         .         .         .       R44mS
                .         .         .         .         .           .
                .         .         .         .         .           .
2905            .         .         .         .       C44mS............
                .         .         .         .         .
                .         .         .         .         .
2908            .         .         .       C44o........................
                .         .         .         .
                .         .         .         .
2913            .         .         .         .-------->   D44oP
2911            .         .         .       D44o
                .         .         .         .
                .         .         .         .
2918            .         .         .         .-------->   D44oS
2916            .         .         .      D44oW
                .         .         .         V
                .         .         .         V
2921            .         .         .      R44oW
                .         .         .         .
                .         .         .         .
2927            .         .      C44mW............
                .         .         .
                .         .         .
2930            .         .         .        48m
                .         .         .         .
                .         .         .         .
2939            .         .         .         .         .<-------   D48kS
2937            .         .         .         .      BD48kS
                .         .         .         .         V
                .         .         .         .         V
2940            .         .         .         .       R48kS
                .         .         .         .         .
                .         .         .         .         .
2946            .         .       C48m........................
                .         .         .
                .         .         .
2951            .         .         .         .<-------   D52kP
2949            .         .         .      BD52kP
                .         .         .         V
                .         .         .         V
2952            .         .         .      P52kS
                .         .         .         .
                .         .         .         .
2957            .         .         .         .         .<-------   D52kS
2955            .         .         .         .      BD52kS
                .         .         .         .         V
                .         .         .         .         V
2958            .         .         .         .       R52kS
                .         .         .         .         .
                .         .         .         .         .
2964            .         .         .      C52kS............
                .         .         .         .
                .         .         .         .
2967            .         .         .         .        52m
                .         .         .         .         .
                .         .         .         .         .
2974            .         .         .       C52m............
                .         .         .         .
                .         .         .         .
2977            .         .      CC52m............
                .         .         .
                .         .         .
2983            .         .         .-------->   D52mP
2980            .         .       D52m
                .         .         .
                .         .         .
2988            .         .         .-------->   D52mS
2986            .         .      D52mW
                .         .         V
                .         .         V
2991            .         .      R52mW
                .         .         .
                .         .         .
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2997          .          .          .          54m
              .          .          .           .
              .          .          .           .
3006          .          .          .           .          .<-------   D54kP
3004          .          .          .           .     BD54kP
              .          .          .           .          V
              .          .          .           .          V
3007          .          .          .           .      P54kS
              .          .          .           .          .
              .          .          .           .          .
3012          .          .          .           .          .          .<-------   D54kS
3010          .          .          .           .          .     BD54kS
              .          .          .           .          .          V
              .          .          .           .          .          V
3013          .          .          .           .          .      R54kS
              .          .          .           .          .          .
              .          .          .           .          .          .
3019          .          .          .           .      C54kS............
              .          .          .           .          .
              .          .          .           .          .
3022          .          .      C54m.......................
              .          .          .
              .          .          .
3027          .          .          .-------->  D54mP
3025          .          .      D54m
              .          .          .
              .          .          .
3032          .          .          .-------->  D54mS
3030          .          .     D54mW
              .          .          V
              .          .          V
3035          .          .     R54mW
              .          .          .
              .          .          .
3041          .          .          .          56m
              .          .          .           .
              .          .          .           .
3050          .          .          .           .          .<-------   D56kP
3048          .          .          .           .     BD56kP
              .          .          .           .          V
              .          .          .           .          V
3051          .          .          .           .      P56kS
              .          .          .           .          .
              .          .          .           .          .
3056          .          .          .           .          .          .<-------   D56kS
3054          .          .          .           .          .     BD56kS
              .          .          .           .          .          V
              .          .          .           .          .          V
3057          .          .          .           .          .      R56kS
              .          .          .           .          .          .
              .          .          .           .          .          .
3063          .          .          .           .      C56kS............
              .          .          .           .          .
              .          .          .           .          .
3066          .          .      C56m.......................
              .          .          .
              .          .          .
3071          .          .          .-------->  D56mP
3069          .          .      D56m
              .          .          .
              .          .          .
3076          .          .          .-------->  D56mS
3074          .          .     D56mW
              .          .          V
              .          .          V
3079          .          .     R56mW
              .          .          .
              .          .          .
3085          .          .          .          60m
              .          .          .           .
              .          .          .           .
3094          .          .          .           .          .<-------   D601P
3092          .          .          .           .     BD601P
              .          .          .           .          V
              .          .          .           .          V
3095          .          .          .           .      P601S
              .          .          .           .          .
              .          .          .           .          .
3100          .          .          .           .          .          .<-------   D601S
3098          .          .          .           .          .     BD601S
              .          .          .           .          .          V
              .          .          .           .          .          V
3101          .          .          .           .          .      R601S
              .          .          .           .          .          .
              .          .          .           .          .          .
3107          .          .          .           .      C601S............
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                .           .           .           .           .
                .           .           .           .           .
3110            .           .       C60m.......................
                .           .           .
                .           .           .
3115            .           .           .-------->  D60mP
3113            .           .       D60m
                .           .           .
                .           .           .
3120            .           .           .-------->  D60mS
3118            .           .      D60mW
                .           .          V
                .           .          V
3123            .           .      R60mW
                .           .           .
                .           .           .
3129            .           .           .        64m
                .           .           .          .
                .           .           .          .
3138            .           .           .          .           .<-------   D641P
3136            .           .           .          .      BD641P
                .           .           .          .          V
                .           .           .          .          V
3139            .           .           .          .       P641S
                .           .           .          .           .
                .           .           .          .           .
3144            .           .           .          .           .           .<-------   D641S
3142            .           .           .          .           .      BD641S
                .           .           .          .           .           V
                .           .           .          .           .           V
3145            .           .           .          .           .       R641S
                .           .           .          .           .           .
                .           .           .          .           .           .
3151            .           .           .          .       C641S............
                .           .           .          .           .
                .           .           .          .           .
3154            .           .           .          .           .         68m
                .           .           .          .           .           .
                .           .           .          .           .           .
3164            .           .           .          .           .           .-------->    D68m
3161            .           .           .          .           .      D68mP2
                .           .           .          .           .           .
                .           .           .          .           .           .
3167            .           .       C64m.................................
                .           .           .
                .           .           .
3172            .           .           .-------->  D64mP
3170            .           .       D64m
                .           .           .
                .           .           .
3177            .           .           .-------->  D64mS
3175            .           .      D64mW
                .           .          V
                .           .          V
3180            .           .      R64mW
                .           .           .
                .           .           .
3188            .           .           .          .<-------    D68m
3186            .           .           .       BD68m
                .           .           .          .
                .           .           .          .
3189            .       C68m.......................
                .           .
                .           .
3194            .           .-------->  D68mP
3192            .      D68m2
                .           .
                .           .
3199            .           .-------->  D68mS
3197            .      D68mW
                .          V
                .          V
3202            .      R68mW
                .           .
                .           .
3208       CC72m............
                .
                .
3213            .-------->  D72mP
3211        D72m
                V
                V
3216       R72mS
                .
                .
3224            .           .<-------   D72mP
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3222          .      BD72mP
              .          V
              .          V
3225          .       P72mS
              .          .
              .          .
3228      C72mS............
              .
              .
3233          .          .<-------   D24oS
3231          .      BD24oS
              .          V
              .          V
3234          .       R24oS
              .          .
              .          .
3242          .          .          .<-------   D28oP
3240          .          .      BD28oP
              .          .          V
              .          .          V
3243          .          .       P28oS
              .          .          .
              .          .          .
3248          .          .          .          .<-------   D28oS
3246          .          .          .      BD28oS
              .          .          .          V
              .          .          .          V
3249          .          .          .       R28oS
              .          .          .          .
              .          .          .          .
3255          .          .       C28oS............
              .          .          .
              .          .          .
3258          .       C28p............
              .          .
              .          .
3261          .          .         28p
              .          .          V
              .          .          V
3268          .          .        S28p
              .          .          .
              .          .          .
3274          .      CC28p............
              .          .
              .          .
3280          .          .------->   D28pP
3277          .       D28p
              .          V
              .          V
3283          .      R28pW
              .          .
              .          .
3289          .          .         32p
              .          .          .
              .          .          .
3298          .          .          .          .<-------   D32oS
3296          .          .          .      BD32oS
              .          .          .          V
              .          .          .          V
3299          .          .          .       R32oS
              .          .          .          .
              .          .          .          .
3305          .          .        C32p............
              .          .          V
              .          .          V
3308          .          .        S32p
              .          .          .
              .          .          .
3317          .          .          .          .<-------   D32oP
3315          .          .          .      BD32oP
              .          .          .          V
              .          .          .          V
3318          .          .          .       P32oS
              .          .          .          .
              .          .          .          .
3321          .      CC32p........................
              .          .
              .          .
3326          .          .------->   D32pS
3324          .      D32pW
              .          .
              .          .
3331          .          .------->   D32pP
3329          .       D32p
              .          V
              .          V
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3334          .       R32pW
              .           .
              .           .
3342          .           .           .<-------   D32pP
3340          .           .      BD32pP
              .           .           V
              .           .           V
3343          .           .       P32pW
              .           .           .
              .           .           .
3346          .       C32pW............
              .           .
              .           .
3349          .           .         28q
              .           .           V
              .           .           V
3356          .           .        S28q
              .           .           .
              .           .           .
3364          .           .           .           .<-------   D28pP
3362          .           .           .      BD28pP
              .           .           .           .
              .           .           .           .
3367          .           .           .           .-------> D28pP2
3365          .           .           .      D28pP1
              .           .           .           V
              .           .           .           V
3370          .           .           .       P28pS
              .           .           .           .
              .           .           .           .
3373          .           .        C28q............
              .           .           .
              .           .           .
3379          .           .           .------->   D28qP
3376          .           .        D28q
              .           .           .
              .           .           .
3384          .           .           .------->   D28qS
3382          .           .       D28qW
              .           .           V
              .           .           V
3387          .           .       R28qW
              .           .           .
              .           .           .
3393          .           .           .         32q
              .           .           .           .
              .           .           .           .
3402          .           .           .           .           .<-------   D32pS
3400          .           .           .           .      BD32pS
              .           .           .           .           .
              .           .           .           .           .
3403          .           .        C32q........................
              .           .           V
              .           .           V
3406          .           .        S32q
              .           .           .
              .           .           .
3416          .           .           .------->    D32q
3413          .           .       D32qP
              .           .           V
              .           .           V
3419          .           .       P32qW
              .           .           .
              .           .           .
3422          .       C32pqW...........
              .           .
              .           .
3425          .           .         36p
              .           .           .
              .           .           .
3434          .           .           .           .<-------   D36oS
3432          .           .           .      BD36oS
              .           .           .           V
              .           .           .           V
3435          .           .           .       R36oS
              .           .           .           .
              .           .           .           .
3441          .        C36p........................
              .           .
              .           .
3446          .           .------->   DB36p
3444          .        E36p
              .           .
              .           .
3451          .           .           .<-------   DB36p
3449          .           .      BDB36p
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                .           .           V
                .           .           V
3452            .           .        S36p
                .           .           .
                .           .           .
3462            .           .           .           .<-------   D36oP
3460            .           .           .      BD36oP
                .           .           .           V
                .           .           .           V
3463            .           .           .       P36oS
                .           .           .           .
                .           .           .           .
3466            .       CC36p.......................
                .           .
                .           .
3471            .           .------->   D36pP
3469            .        D36p
                .           V
                .           V
3474            .       R36pW
                .           .
                .           .
3482            .           .           .<-------   D36pP
3480            .           .      BD36pP
                .           .           .
                .           .           .
3485            .           .           .------->  D36pP2
3483            .           .      D36pP1
                .           .           V
                .           .           V
3488            .           .       P36pW
                .           .           .
                .           .           .
3491            .       C36pW............
                .           .
                .           .
3494            .           .         40p
                .           .           .
                .           .           .
3503            .           .           .           .<-------   D40oP
3501            .           .           .      BD40oP
                .           .           .           V
                .           .           .           V
3504            .           .           .       P40oS
                .           .           .           .
                .           .           .           .
3509            .           .           .           .           .<-------   D40oS
3507            .           .           .           .      BD40oS
                .           .           .           .           V
                .           .           .           .           V
3510            .           .           .           .       R40oS
                .           .           .           .           .
                .           .           .           .           .
3516            .           .           .       C40oS............
                .           .           .           .
                .           .           .           .
3519            .        C40p.......................
                .           .
                .           .
3524            .           .------->   D40pP
3522            .        D40p
                .           V
                .           V
3527            .       R40pW
                .           .
                .           .
3535            .           .           .<-------   D40pP
3533            .           .      BD40pP
                .           .           V
                .           .           V
3536            .           .       P40pW
                .           .           .
                .           .           .
3540            .       C40pW............
                .           .
                .           .
3543            .           .         44p
                .           .           .
                .           .           .
3552            .           .           .           .<-------   D44oP
3550            .           .           .      BD44oP
                .           .           .           V
                .           .           .           V
3553            .           .           .       P44oS
                .           .           .           .
                .           .           .           .
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3558  .        .        .        .        .<-------  D44oS
3556  .        .        .        .     BD44oS
      .        .        .        .        V
      .        .        .        .        V
3559  .        .        .        .     R44oS
      .        .        .        .        .
      .        .        .        .        .
3565  .        .        .     C44oS............
      .        .        .        .
      .        .        .        .
3568  .     C44p......................
      .        .
      .        .
3573  .        .------->  D44pP
3571  .     D44p
      .        V
      .        V
3576  .    R44pW
      .        .
      .        .
3584  .        .        .<-------  D44pP
3582  .        .    BD44pP
      .        .        .
      .        .        .
3587  .        .        .------->  D44pP2
3585  .        .    D44pP1
      .        .        V
      .        .        V
3590  .        .     P44pW
      .        .        .
      .        .        .
3594  .    C44pW...........
      .        .
      .        .
3597  .        .      48o
      .        .        .
      .        .        .
3606  .        .        .        .<-------  D52mS
3604  .        .        .    BD52mS
      .        .        .        V
      .        .        .        V
3607  .        .        .     R52mS
      .        .        .        .
      .        .        .        .
3615  .        .        .        .        .<-------  D52mP
3613  .        .        .        .     BD52mP
      .        .        .        .        V
      .        .        .        .        V
3616  .        .        .        .     P52mS
      .        .        .        .        .
      .        .        .        .        .
3619  .        .        .     C52mS............
      .        .        .        .
      .        .        .        .
3622  .     C48o......................
      .        .
      .        .
3627  .        .------->  DB48o
3625  .     E48o
      .        .
      .        .
3632  .        .        .<-------  DB48o
3630  .        .    BDB48o
      .        .        V
      .        .        V
3633  .        .     S48o
      .        .        .
      .        .        .
3641  .    CC48o...........
      .        .
      .        .
3646  .        .------->  D48oPT
3644  .     D48o
      .        V
      .        V
3649  .    R48oW
      .        .
      .        .
3656  .        .      52o
      .        .        .
      .        .        .
3665  .        .        .        .<-------  D54mP
3663  .        .        .    BD54mP
      .        .        .        V
      .        .        .        V
3666  .        .        .     P54mS
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                .          .          .          .
                .          .          .          .
3671            .          .          .          .          .<-------   D54mS
3669            .          .          .          .     BD54mS
                .          .          .          .          V
                .          .          .          .          V
3672            .          .          .          .      R54mS
                .          .          .          .          .
                .          .          .          .          .
3678            .          .          .     C54mS............
                .          .          .          .
                .          .          .          .
3681            .      C52o........................
                .          .
                .          .
3687            .          .------->   D52oP
3684            .      D52o
                .          V
                .          V
3690            .     R52oW
                .          .
                .          .
3698            .          .          .<-------   D52oP
3696            .          .     BD52oP
                .          .          V
                .          .          V
3699            .          .      P52oW
                .          .          .
                .          .          .
3702            .     C52oW............
                .          .
                .          .
3705            .          .        56o
                .          .          .
                .          .          .
3714            .          .          .          .<-------   D56mP
3712            .          .          .     BD56mP
                .          .          .          V
                .          .          .          V
3715            .          .          .     P56mS
                .          .          .          .
                .          .          .          .
3720            .          .          .          .          .<-------   D56mS
3718            .          .          .          .     BD56mS
                .          .          .          .          V
                .          .          .          .          V
3721            .          .          .          .      R56mS
                .          .          .          .          .
                .          .          .          .          .
3727            .          .          .     C56mS............
                .          .          .          .
                .          .          .          .
3730            .      C56o........................
                .          .
                .          .
3736            .          .------->   D56oP
3733            .      D56o
                .          V
                .          V
3739            .     R56oW
                .          .
                .          .
3747            .          .          .<-------   D56oP
3745            .          .     BD56oP
                .          .          V
                .          .          V
3748            .          .      P56oW
                .          .          .
                .          .          .
3752            .     C56oW............
                .          .
                .          .
3755            .          .        60o
                .          .          .
                .          .          .
3764            .          .          .          .<-------   D60mP
3762            .          .          .     BD60mP
                .          .          .          V
                .          .          .          V
3765            .          .          .     P60mS
                .          .          .          .
                .          .          .          .
3770            .          .          .          .          .<-------   D60mS
3768            .          .          .          .     BD60mS
                .          .          .          .          V
                .          .          .          .          V
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3771          .           .           .           .       R60mS
              .           .           .           .           .
              .           .           .           .           .
3777          .           .           .       C60mS............
              .           .           .           .
              .           .           .           .
3780          .        C60o........................
              .           .
              .           .
3786          .           .-------> D60oPT
3783          .        D60o
              .           V
              .           V
3789          .       R60oW
              .           .
              .           .
3795          .           .         64o
              .           .          V
              .           .          V
3802          .           .        S64o
              .           .           .
              .           .           .
3810          .           .           .           .<-------   D64mP
3808          .           .           .      BD64mP
              .           .           .           V
              .           .           .           V
3811          .           .           .       P64mS
              .           .           .           .
              .           .           .           .
3816          .           .           .           .           .<-------   D64mS
3814          .           .           .           .      BD64mS
              .           .           .           .           V
              .           .           .           .           V
3817          .           .           .           .       R64mS
              .           .           .           .           .
              .           .           .           .           .
3823          .           .           .       C64mS............
              .           .           .           .
              .           .           .           .
3826          .        C64o........................
              .           .
              .           .
3832          .           .-------> D64oPT
3829          .        D64o
              .           V
              .           V
3835          .       R64oW
              .           .
              .           .
3841          .           .         68o
              .           .          V
              .           .          V
3848          .           .        S68o
              .           .           .
              .           .           .
3856          .           .           .           .<-------   D68mP
3854          .           .           .      BD68mP
              .           .           .           V
              .           .           .           V
3857          .           .           .       P68mS
              .           .           .           .
              .           .           .           .
3862          .           .           .           .           .<-------   D68mS
3860          .           .           .           .      BD68mS
              .           .           .           .           V
              .           .           .           .           V
3863          .           .           .           .       R68mS
              .           .           .           .           .
              .           .           .           .           .
3869          .           .           .       C68mS............
              .           .           .           .
              .           .           .           .
3872          .        C68o........................
              .           .
              .           .
3878          .           .-------> D68oPT
3875          .        D68o
              .           V
              .           V
3881          .       R68oW
              .           .
              .           .
3887          .           .         72o
              .           .           .
              .           .           .
3894       C72o........................
```

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                .
                .
3899            .-------> D72oP
3897        D72o
                V
                V
3902        S72o
                .
                .
3910            .-------> D72o1
3908      D72oPT
                V
                V
3913      PT72oE
                .
                .
3918            .          .<-------  D68oPT
3916            .      B68oPT
                .          .
                .          .
3919      CPT68o............
                V
                V
3922      PT68oE
                .
                .
3927            .          .<-------  D72o1
3925            .      BD72o1
                .          .
                .          .
3931            .          .-------> D72oW
3928            .       D72oE
                .          V
                .          V
3934            .       S-I10
                .          .
                .          .
3944            .          .          .<-------  D64oPT
3942            .          .      B64oPT
                .          .          .
                .          .          .
3947            .          .          .          .<-------  D60oPT
3945            .          .          .      B60oPT
                .          .          .          V
                .          .          .          V
3948            .          .          .      PT60oW
                .          .          .          .
                .          .          .          .
3951        C-WT...................................
                V
                V
3955       PT64o
                .
                .
3960            .-------> DPT64o
3958      DN_64o
                .
                .
3963            .         36q
                .          .
                .          .
3972            .          .          .<-------    D32q
3970            .          .       BD32q
                .          .          V
                .          .          V
3973            .          .       R32qS
                .          .          .
                .          .          .
3981            .          .          .          .<-------  D36pP2
3979            .          .          .      B36pP2
                .          .          .          V
                .          .          .          V
3982            .          .          .       P36pS
                .          .          .          .
                .          .          .          .
3986            .        C36q........................
                .          .
                .          .
3991            .          .-------> D36qP
3989            .        D36q
                .          .
                .          .
3996            .          .-------> D36qS
3994            .       D36qW
                .          V
                .          V
```

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3999          .       R36qW
              .           .
              .           .
4005          .           .         40q
              .           .           .
              .           .           .
4012          .        C40q............
              .           .
              .           .
4017          .           .-------->   D40qP
4015          .        D40q
              .           .
              .           .
4022          .           .-------->   D40qS
4020          .       D40qW
              .           V
              .           V
4025          .       R40qW
              .           .
              .           .
4033          .           .           .<-------   D40qP
4031          .           .      BD40qP
              .           .           V
              .           .           V
4034          .           .       P40qW
              .           .           .
              .           .           .
4037          .       C40qW............
              .           .
              .           .
4040          .           .         44q
              .           .           .
              .           .           .
4049          .           .           .           .<-------  D44pP2
4047          .           .           .      B44pP2
              .           .           .           V
              .           .           .           V
4050          .           .           .       P44pS
              .           .           .           .
              .           .           .           .
4053          .        C44q........................
              .           .
              .           .
4058          .           .-------->   D44qP
4056          .        D44q
              .           .
              .           .
4063          .           .-------->   D44qS
4061          .       D44qW
              .           V
              .           V
4066          .       R44qW
              .           .
              .           .
4072          .           .         48q
              .           .           .
              .           .           .
4079          .        C48q............
              .           .
              .           .
4085          .           .-------->  D48qPT
4082          .       DB48q
              .           V
              .           V
4088          .        S48q
              .           .
              .           .
4096          .           .-------->   D48qS
4094          .       D48qW
              .           V
              .           V
4099          .       R48qW
              .           .
              .           .
4105          .           .         52q
              .           .           .
              .           .           .
4112          .        C52q............
              .           .
              .           .
4117          .           .-------->   D52qP
4115          .        D52q
              .           .
              .           .
4122          .           .-------->   D52qS
4120          .       D52qW
```

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                .           V
                .           V
4125            .       R52qW
                .           .
                .           .
4131            .           .         56q
                .           .           .
                .           .           .
4138            .        C56q............
                .           .
                .           .
4143            .           .-------->   D56qP
4141            .        D56q
                .           .
                .           .
4148            .           .-------->   D56qS
4146            .       D56qW
                .           V
                .           V
4151            .       R56qW
                .           .
                .           .
4157            .           .         60q
                .           .           .
                .           .           .
4164            .        C60q............
                .           .
                .           .
4169            .           .-------->   D60qP
4167            .        D60q
                .           .
                .           .
4174            .           .-------->   D60qS
4172            .       D60qW
                .           V
                .           V
4177            .       R60qW
                .           .
                .           .
4183            .           .         64q
                .           .           .
                .           .           .
4190         C64q........................
                .
                .
4196            .-------->  D64qPT
4193         D64q
                .
                .
4201            .-------->   D64qP
4199        D64q1
                .
                .
4206            .-------->   D64qS
4204        D64qW
                V
                V
4209        R64qW
                .
                .
4217            .           .<--------   D64qP
4215            .      BD64qP
                .           V
                .           V
4218            .       P64qW
                .           .
                .           .
4221        C64qW............
                .
                .
4224            .         68q
                .           .
                .           .
4231         C68q............
                .
                .
4236            .-------->   D68qP
4234         D68q
                .
                .
4241            .-------->   D68qS
4239        D68qW
                V
                V
4244        R68qW
                .
```

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                .
4252            .           .<-------   D68qP
4250            .      BD68qP
                .           V
                .           V
4253            .       P68qW
                .           .
                .           .
4256        C68qW............
                .
                .
4259            .         72q
                .           .
                .           .
4268            .           .           .<-------   D72oP
4266            .           .       B72oP
                .           .           V
                .           .           V
4269            .           .       P72oS
                .           .           .
                .           .           .
4272         C72q........................
                .
                .
4277            .------->   D72qP
4275         D72q
                .
                .
4282            .------->   D72qS
4280        D72qW
                V
                V
4285        R72qW
                .
                .
4291            .         80o
                .           .
                .           .
4300            .           .           .<-------   D84mP
4298            .           .      BD84mP
                .           .           V
                .           .           V
4301            .           .       P84mS
                .           .           .
                .           .           .
4306            .           .           .           .<-------   D84mS
4304            .           .           .      BD84mS
                .           .           .           V
                .           .           .           V
4307            .           .           .       R84mS
                .           .           .           .
                .           .           .           .
4313            .           .       C84mS............
                .           .           .
                .           .           .
4318            .           .           .           .<-------   D80mS
4316            .           .           .      BD80mS
                .           .           .           V
                .           .           .           V
4319            .           .           .       R80mS
                .           .           .           .
                .           .           .           .
4325            .         C80o........................
                .           .
                .           .
4330            .           .------->   DB80o
4328            .         E80o
                .           .
                .           .
4335            .           .           .<-------   DB80o
4333            .           .      BDB80o
                .           .           V
                .           .           V
4336            .           .        S80o
                .           .           .
                .           .           .
4342            .       CC80o............
                .           .
                .           .
4347            .           .------->   D80oP
4345            .         D80o
                .           V
                .           V
4350            .       R80oS
                .           .
                .           .
```

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4356          .           .         76o
              .           .           .
              .           .           .
4365          .           .           .           .<-------    D76m
4363          .           .           .       BD76m
              .           .           .           V
              .           .           .           V
4366          .           .           .       R76mS
              .           .           .           .
              .           .           .           .
4374          .           .           .           .           .<-------  D76mP2
4372          .           .           .           .      B76mP2
              .           .           .           .           V
              .           .           .           .           V
4375          .           .           .           .       P76mS
              .           .           .           .           .
              .           .           .           .           .
4378          .           .           .       C76mS............
              .           .           .           .
              .           .           .           .
4383          .           .           .           .           .<-------   D72oW
4381          .           .           .           .      BD72oW
              .           .           .           .           V
              .           .           .           .           V
4384          .           .           .           .       R72oW
              .           .           .           .           .
              .           .           .           .           .
4390          .        C76o...................................
              .           .
              .           .
4395          .           .------->    D76o
4393          .       D76oP
              .           V
              .           V
4398          .       P76oS
              .           .
              .           .
4403          .           .           .<-------    D76o
4401          .           .       BD76o
              .           .           .
              .           .           .
4406          .           .           .------->   D76oW
4404          .           .       D76oS
              .           .           V
              .           .           V
4409          .           .       R76oS
              .           .           .
              .           .           .
4415          .       C76oS............
              .           .
              .           .
4418          .           .         76q
              .           .           .
              .           .           .
4425       C76q........................
              .
              .
4430          .------->   D76qP
4428       D76q
              .
              .
4435          .------->   D76qS
4433      D76qW
              V
              V
4438      R76qW
              .
              .
4444          .         80p
              .           .
              .           .
4453          .           .           .<-------   D76oW
4451          .           .      BD76oW
              .           .           V
              .           .           V
4454          .           .       R76oW
              .           .           .
              .           .           .
4460          .       C80p............
              .           V
              .           V
4463          .       S80p
              .           .
              .           .
4471          .           .           .<-------   D80oP
4469          .           .      BD80oP
```

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                .           .           V
                .           .           V
4472            .           .       P80oS
                .           .           .
                .           .           .
4475            .       CC80p............
                .           .
                .           .
4480            .           .-------->  D80pP
4478            .        D80p
                .           V
                .           V
4483            .       R80pS
                .           .
                .           .
4491            .           .           .<-------   D80pP
4489            .           .      BD80pP
                .           .           V
                .           .           V
4492            .           .       P80pS
                .           .           .
                .           .           .
4495            .       C80pS............
                .           .
                .           .
4498            .           .         80q
                .           .           .
                .           .           .
4505        C80q........................
                .
                .
4508            .         28s
                .           .
                .           .
4517            .           .           .<-------   D28qP
4515            .           .      BD28qP
                .           .           .
                .           .           .
4520            .           .           .-------->  D28qP2
4518            .           .      D28qP1
                .           .           V
                .           .           V
4523            .           .       P28qS
                .           .           .
                .           .           .
4528            .           .           .           .<-------   D28qS
4526            .           .           .      BD28qS
                .           .           .           V
                .           .           .           V
4529            .           .           .       R28qS
                .           .           .           .
                .           .           .           .
4535            .           .       C28qS............
                .           .           .
                .           .           .
4538            .        C28s............
                .           .
                .           .
4543            .           .-------->  D28sP
4541            .        D28s
                .           .
                .           .
4548            .           .-------->  D28sS
4546            .       D28sW
                .           V
                .           V
4551            .       R28sW
                .           .
                .           .
4557            .           .         32s
                .           .           .
                .           .           .
4564            .        C32s............
                .           V
                .           V
4567            .       S32s
                .           .
                .           .
4575            .           .-------->  D32sP
4573            .        D32s
                .           V
                .           V
4578            .       R32sW
                .           .
                .           .
4586            .           .           .<-------   D32sP
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4584          .           .      BD32sP
              .           .           V
              .           .           V
4587          .           .       P32sW
              .           .           .
              .           .           .
4590          .       C32sW............
              .           .
              .           .
4593          .           .         36s
              .           .           .
              .           .           .
4602          .           .           .           .<-------   D36qP
4600          .           .           .      BD36qP
              .           .           .           V
              .           .           .           V
4603          .           .           .       P36qS
              .           .           .           .
              .           .           .           .
4608          .           .           .           .           .<-------   D36qS
4606          .           .           .           .      BD36qS
              .           .           .           .           V
              .           .           .           .           V
4609          .           .           .           .       R36qS
              .           .           .           .           .
              .           .           .           .           .
4615          .           .           .       C36qS............
              .           .           .           .
              .           .           .           .
4618          .        C36s........................
              .           .
              .           .
4623          .           .-------->   D36sP
4621          .        D36s
              .           V
              .           V
4626          .       R36sW
              .           .
              .           .
4632          .           .         40s
              .           .           .
              .           .           .
4641          .           .           .           .<-------   D40qS
4639          .           .           .      BD40qS
              .           .           .           V
              .           .           .           V
4642          .           .           .       R40qS
              .           .           .           .
              .           .           .           .
4648          .        C40s........................
              .           .
              .           .
4653          .           .-------->   D40sP
4651          .        D40s
              .           V
              .           V
4656          .       R40sW
              .           .
              .           .
4664          .           .           .<-------   D40sP
4662          .           .      BD40sP
              .           .           V
              .           .           V
4665          .           .       P40sW
              .           .           .
              .           .           .
4668          .       C40sW............
              .           .
              .           .
4671          .           .         44s
              .           .           .
              .           .           .
4680          .           .           .           .<-------   D44qP
4678          .           .           .      BD44qP
              .           .           .           V
              .           .           .           V
4681          .           .           .       P44qS
              .           .           .           .
              .           .           .           .
4686          .           .           .           .           .<-------   D44qS
4684          .           .           .           .      BD44qS
              .           .           .           .           V
              .           .           .           .           V
4687          .           .           .           .       R44qS
              .           .           .           .           .
              .           .           .           .           .
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4693          .           .           .       C44qS............
              .           .           .           .
              .           .           .           .
4696          .        C44s........................
              .           .
              .           .
4701          .           .-------->   D44sP
4699          .        D44s
              .           V
              .           V
4704          .       R44sW
              .           .
              .           .
4710          .           .         48s
              .           .           .
              .           .           .
4719          .           .           .           .<-------   D48qS
4717          .           .           .      BD48qS
              .           .           .           V
              .           .           .           V
4720          .           .           .       R48qS
              .           .           .           .
              .           .           .           .
4726          .        C48s........................
              .           .
              .           .
4732          .           .-------->   D48sPT
4729          .       DB48s
              .           V
              .           V
4735          .        S48s
              .           V
              .           V
4741          .       R48sW
              .           .
              .           .
4747          .           .         52s
              .           .           .
              .           .           .
4756          .           .           .           .<-------   D52qP
4754          .           .           .      BD52qP
              .           .           .           V
              .           .           .           V
4757          .           .           .       P52qS
              .           .           .           .
              .           .           .           .
4762          .           .           .           .           .<-------   D52qS
4760          .           .           .           .      BD52qS
              .           .           .           .           V
              .           .           .           .           V
4763          .           .           .           .       R52qS
              .           .           .           .           .
              .           .           .           .           .
4769          .           .           .       C52qS............
              .           .           .           .
              .           .           .           .
4772          .        C52s........................
              .           .
              .           .
4777          .           .-------->   D52sP
4775          .        D52s
              .           V
              .           V
4780          .       R52sW
              .           .
              .           .
4786          .           .         56s
              .           .           .
              .           .           .
4795          .           .           .           .<-------   D56qP
4793          .           .           .      BD56qP
              .           .           .           V
              .           .           .           V
4796          .           .           .       P56qS
              .           .           .           .
              .           .           .           .
4801          .           .           .           .           .<-------   D56qS
4799          .           .           .           .      BD56qS
              .           .           .           .           V
              .           .           .           .           V
4802          .           .           .           .       R56qS
              .           .           .           .           .
              .           .           .           .           .
4808          .           .           .       C56qS............
              .           .           .           .
              .           .           .           .
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4811          .        C56s.......................
              .           .
              .           .
4816          .           .-------->   D56sP
4814          .        D56s
              .           .
              .           .
4821          .           .-------->   D56sS
4819          .       D56sW
              .           V
              .           V
4824          .       R56sW
              .           .
              .           .
4830          .           .         60s
              .           .           .
              .           .           .
4839          .           .           .           .<-------   D60qP
4837          .           .           .      BD60qP
              .           .           .           V
              .           .           .           V
4840          .           .           .       P60qS
              .           .           .           .
              .           .           .           .
4845          .           .           .           .           .<-------   D60qS
4843          .           .           .           .      BD60qS
              .           .           .           .           V
              .           .           .           .           V
4846          .           .           .           .       R60qS
              .           .           .           .           .
              .           .           .           .           .
4852          .           .           .       C60qS............
              .           .           .           .
              .           .           .           .
4855          .        C60s.......................
              .           .
              .           .
4860          .           .-------->   D60sP
4858          .        D60s
              .           .
              .           .
4865          .           .-------->   D60sS
4863          .       D60sW
              .           V
              .           V
4868          .       R60sW
              .           .
              .           .
4876          .           .           .<-------   D60sP
4874          .           .      BD60sP
              .           .           V
              .           .           V
4877          .           .       P60sW
              .           .           .
              .           .           .
4880          .       C60sW............
              .           .
              .           .
4883          .           .         64s
              .           .           .
              .           .           .
4892          .           .           .           .<-------   D64qS
4890          .           .           .      BD64qS
              .           .           .           V
              .           .           .           V
4893          .           .           .       R64qS
              .           .           .           .
              .           .           .           .
4899          .        C64s.......................
              .           .
              .           .
4905          .           .-------->  D64sPT
4902          .        D64s
              .           .
              .           .
4911          .           .-------->   D64sP
4908          .       D64s1
              .           .
              .           .
4916          .           .-------->   D64sS
4914          .       D64sW
              .           V
              .           V
4919          .       R64sW
              .           .
              .           .
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4925          .           .         68s
              .           .           .
              .           .           .
4934          .           .           .          .<-------   D68qS
4932          .           .           .     BD68qS
              .           .           .          V
              .           .           .          V
4935          .           .           .      R68qS
              .           .           .           .
              .           .           .           .
4941          .        C68s.......................
              .           .
              .           .
4946          .           .------->   D68sP
4944          .        D68s
              .           .
              .           .
4951          .           .------->   D68sS
4949          .       D68sW
              .           V
              .           V
4954          .       R68sW
              .           .
              .           .
4960          .           .         72s
              .           .           .
              .           .           .
4970          .           .           .          .<-------   D72qP
4967          .           .           .     BD72qP
              .           .           .           .
              .           .           .           .
4973          .           .           .          .------->  D72qP2
4971          .           .           .     D72qP1
              .           .           .          V
              .           .           .          V
4976          .           .           .     P72qS1
              .           .           .           .
              .           .           .           .
4981          .           .           .           .           .<-------  D72qP2
4979          .           .           .           .     B72qP2
              .           .           .           .          V
              .           .           .           .          V
4982          .           .           .           .     P72qS2
              .           .           .           .           .
              .           .           .           .           .
4987          .           .           .           .           .           .<-------   D72qS
4985          .           .           .           .           .     BD72qS
              .           .           .           .           .          V
              .           .           .           .           .          V
4988          .           .           .           .           .      R72qS
              .           .           .           .           .           .
              .           .           .           .           .           .
4994          .           .           .      C72qS.......................
              .           .           .           .
              .           .           .           .
4997          .        C72s.......................
              .           .
              .           .
5002          .           .------->   D72sP
5000          .        D72s
              .           .
              .           .
5007          .           .------->   D72sS
5005          .       D72sW
              .           V
              .           V
5010          .       R72sW
              .           .
              .           .
5016          .           .         76s
              .           .           V
              .           .           V
5023          .           .        S76s
              .           .           .
              .           .           .
5031          .           .           .          .<-------   D76qP
5029          .           .           .     BD76qP
              .           .           .          V
              .           .           .          V
5032          .           .           .      P76qS
              .           .           .           .
              .           .           .           .
5037          .           .           .           .           .<-------   D76qS
5035          .           .           .           .     BD76qS
              .           .           .           .          V
              .           .           .           .          V
```

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5038          .           .           .           .       R76qS
              .           .           .           .           .
              .           .           .           .           .
5044          .           .           .       C76qS............
              .           .           .           .
              .           .           .           .
5047          .        C76s........................
              .           .
              .           .
5052          .           .-------->   D76sP
5050          .        D76s
              .           .
              .           .
5057          .           .-------->   D76sS
5055          .       D76sW
              .           V
              .           V
5060          .       R76sW
              .           .
              .           .
5066       CC80q............
              .
              .
5071          .-------->   D80qP
5069       D80q
              .
              .
5076          .-------->   D80qW
5074       D80qS
              V
              V
5079       R80qS
              .
              .
5087          .           .<--------   D80qP
5085          .      BD80qP
              .           V
              .           V
5088          .       P80qS
              .           .
              .           .
5091       C80qS............
              .
              .
5094          .         52t
              .           V
              .           V
5101          .        S52t
              .           .
              .           .
5109          .           .           .<--------   D52sP
5107          .           .      BD52sP
              .           .           V
              .           .           V
5110          .           .       P52sS
              .           .           .
              .           .           .
5113          .        C52t............
              .           .
              .           .
5118          .           .-------->   D52tP
5116          .        D52t
              .           .
              .           .
5123          .           .-------->   D52tS
5121          .       D52tW
              .           V
              .           V
5126          .       R52tW
              .           .
              .           .
5132          .           .         56t
              .           .           .
              .           .           .
5141          .           .           .           .<--------   D56sP
5139          .           .           .      BD56sP
              .           .           .           V
              .           .           .           V
5142          .           .           .       P56sS
              .           .           .           .
              .           .           .           .
5147          .           .           .           .           .<--------   D56sS
5145          .           .           .           .      BD56sS
              .           .           .           .           V
              .           .           .           .           V
5148          .           .           .           .       R56sS
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                .          .          .          .          .
                .          .          .          .          .
5154            .          .          .      C56sS...........
                .          .          .          .
                .          .          .          .
5157            .       C56t......................
                .          .
                .          .
5162            .          .-------->  D56tP
5160            .       D56t
                .          .
                .          .
5167            .          .-------->  D56tS
5165            .      D56tW
                .          V
                .          V
5170            .      R56tW
                .          .
                .          .
5176            .          .        60t
                .          .         V
                .          .         V
5183            .          .       S60t
                .          .          .
                .          .          .
5191            .          .          .          .<-------   D60sS
5189            .          .      BD60sS
                .          .          .          V
                .          .          .          V
5192            .          .       R60sS
                .          .          .          .
                .          .          .          .
5198            .       C60t......................
                .          .
                .          .
5203            .          .-------->  D60tS
5201            .      D60tW
                .          V
                .          V
5206            .      R60tW
                .          .
                .          .
5212            .          .        64t
                .          .          .
                .          .          .
5221            .          .          .          .<-------   D64sP
5219            .          .      BD64sP
                .          .          .          V
                .          .          .          V
5222            .          .       P64sS
                .          .          .          .
                .          .          .          .
5228            .          .          .          .          .<-------   D64sS
5226            .          .          .      BD64sS
                .          .          .          .          V
                .          .          .          .          V
5229            .          .          .       R64sS
                .          .          .          .          .
                .          .          .          .          .
5235            .          .       C64sS...........
                .          .          .          .
                .          .          .          .
5238            .       C64t......................
                .          .
                .          .
5243            .          .-------->  D64tPT
5241            .       D64t
                .          .
                .          .
5248            .          .-------->  D64tP
5246            .      D64t1
                .          .
                .          .
5253            .          .-------->  D64tS
5251            .      D64tW
                .          V
                .          V
5256            .      R64tW
                .          .
                .          .
5262            .          .        68t
                .          .          .
                .          .          .
5271            .          .          .          .<-------   D68sP
5269            .          .      BD68sP
                .          .          .          V
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                 .          .          .          V
5272             .          .          .       P68sS
                 .          .          .          .
                 .          .          .          .
5277             .          .          .          .          .<-------   D68sS
5275             .          .          .          .      BD68sS
                 .          .          .          .          V
                 .          .          .          .          V
5278             .          .          .          .       R68sS
                 .          .          .          .          .
                 .          .          .          .          .
5284             .          .          .       C68sS............
                 .          .          .          .
                 .          .          .          .
5287             .       C68t........................
                 .          .
                 .          .
5292             .          .-------->   D68tP
5290             .       D68t
                 .          .
                 .          .
5297             .          .-------->   D68tS
5295             .      D68tW
                 .          V
                 .          V
5300             .      R68tW
                 .          .
                 .          .
5306             .          .        72t
                 .          .          .
                 .          .          .
5315             .          .          .          .<-------   D72sS
5313             .          .          .      BD72sS
                 .          .          .          V
                 .          .          .          V
5316             .          .          .       R72sS
                 .          .          .          .
                 .          .          .          .
5324             .          .          .          .          .<-------   D72sP
5322             .          .          .          .      BD72sP
                 .          .          .          .          .
                 .          .          .          .          .
5327             .          .          .          .          .-------->  D72sP2
5325             .          .          .          .      D72sP1
                 .          .          .          .          V
                 .          .          .          .          V
5330             .          .          .          .      P72sS1
                 .          .          .          .          .
                 .          .          .          .          .
5335             .          .          .          .          .          .<-------  D72sP2
5333             .          .          .          .          .     B72sP2
                 .          .          .          .          .          V
                 .          .          .          .          .          V
5336             .          .          .          .          .     P72sS2
                 .          .          .          .          .          .
                 .          .          .          .          .          .
5339             .          .          .       C72sS........................
                 .          .          .          .
                 .          .          .          .
5342             .       C72t........................
                 .          .
                 .          .
5347             .          .-------->   D72tP
5345             .       D72t
                 .          .
                 .          .
5352             .          .-------->   D72tS
5350             .      D72tW
                 .          V
                 .          V
5355             .      R72tW
                 .          .
                 .          .
5361             .          .        76t
                 .          .          .
                 .          .          .
5370             .          .          .          .<-------   D76sP
5368             .          .          .      BD76sP
                 .          .          .          V
                 .          .          .          V
5371             .          .          .       P76sS
                 .          .          .          .
                 .          .          .          .
5376             .          .          .          .          .<-------   D76sS
5374             .          .          .          .      BD76sS
                 .          .          .          .          V
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                .           .           .           .           V
5377            .           .           .           .       R76aS
                .           .           .           .           .
                .           .           .           .           .
5383            .           .           .       C76aS............
                .           .           .           .
                .           .           .           .
5386            .        C76t........................
                .           .
                .           .
5391            .           .-------->   D76tP
5389            .        D76t
                .           .
                .           .
5396            .           .-------->   D76tS
5394            .       D76tW
                .           V
                .           V
5399            .       R76tW
                .           .
                .           .
5405            .           .         80t
                .           .           .
                .           .           .
5412         C80t........................
                .
                .
5417            .-------->   D80tP
5415         D80t
                V
                V
5420         R80tS
                .
                .
5426            .         52u
                .           .
                .           .
5435            .           .           .<-------   D52tS
5433            .           .      BD52tS
                .           .           V
                .           .           V
5436            .           .       R52tS
                .           .           .
                .           .           .
5442            .        C52u............
                .           V
                .           V
5445            .        S52u
                .           .
                .           .
5454            .           .           .<-------   D52tP
5452            .           .      BD52tP
                .           .           V
                .           .           V
5455            .           .       P52tS
                .           .           .
                .           .           .
5458            .       CC52u............
                .           .
                .           .
5463            .           .-------->   D52uP
5461            .        D52u
                .           .
                .           .
5468            .           .-------->   D52uS
5466            .       D52uW
                .           V
                .           V
5471            .       R52uW
                .           .
                .           .
5477            .           .         56u
                .           .           .
                .           .           .
5486            .           .           .           .<-------   D56tS
5484            .           .           .      BD56tS
                .           .           .           V
                .           .           .           V
5487            .           .           .       R56tS
                .           .           .           .
                .           .           .           .
5493            .        C56u........................
                .           V
                .           V
5496            .        S56u
                .           .
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.          .
5505       .          .<-------   D56tP
5503       .          .      BD56tP
           .          .          V
           .          .          V
5506       .          .       P56tS
           .          .          .
           .          .          .
5509       .       CC56u...........
           .          .
           .          .
5514       .          .------->   D56uP
5512       .        D56u
           .          .
           .          .
5519       .          .------->   D56uS
5517       .       D56uW
           .          V
           .          V
5522       .       R56uW
           .          .
           .          .
5528       .          .         60u
           .          .          .
           .          .          .
5537       .          .          .          .<-------   D60tS
5535       .          .          .      BD60tS
           .          .          .          V
           .          .          .          V
5538       .          .          .       R60tS
           .          .          .          .
           .          .          .          .
5544       .        C60u......................
           .          V
           .          V
5547       .        S60u
           .          .
           .          .
5555       .          .------->   D60uP
5553       .        D60u
           .          .
           .          .
5560       .          .------->   D60uS
5558       .       D60uW
           .          V
           .          V
5563       .       R60uW
           .          .
           .          .
5569       .          .         64u
           .          .          .
           .          .          .
5578       .          .          .          .<-------   D64tP
5576       .          .          .      BD64tP
           .          .          .          V
           .          .          .          V
5579       .          .          .       P64tS
           .          .          .          .
           .          .          .          .
5585       .          .          .          .          .<-------   D64tS
5583       .          .          .          .      BD64tS
           .          .          .          .          V
           .          .          .          .          V
5586       .          .          .          .       R64tS
           .          .          .          .          .
           .          .          .          .          .
5592       .          .          .       C64tS...........
           .          .          .          .
           .          .          .          .
5595       .        C64u......................
           .          .
           .          .
5600       .          .------->  D64uPT
5598       .        D64u
           .          .
           .          .
5605       .          .------->   D64uP
5603       .       D64u1
           .          .
           .          .
5610       .          .------->   D64uS
5608       .       D64uW
           .          V
           .          V
5613       .       R64uW
           .          .
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5619                68u
                     .
                     .
5628                 .          .<-------   D68tP
5626                 .     BD68tP
                     .          V
                     .          V
5629                 .      P68tS
                     .          .
                     .          .
5634                 .          .           .<-------   D68tS
5632                 .          .      BD68tS
                     .          .           V
                     .          .           V
5635                 .          .       R68tS
                     .          .           .
                     .          .           .
5641                 .      C68tS............
                     .          .
                     .          .
5644            C68u.......................
                 .
                 .
5649             .------->  D68uP
5647            D68u
                 .
                 .
5654             .------->  D68uS
5652           D68uW
                V
                V
5657           R68uW
                 .
                 .
5663                 .         72u
                     .           .
                     .           .
5670            C72u............
                 .
                 .
5675                 .      .<-------   D72tP
5673                 .  BD72tP
                     .           .
                     .           .
5678                 .      .------->  D72tP2
5676                 .  D72tP1
                     .       V
                     .       V
5681                 .  P72tS1
                     .           .
                     .           .
5686                 .           .       .<-------  D72tP2
5684                 .           .  B72tP2
                     .           .       V
                     .           .       V
5687                 .           .  P72tS2
                     .           .           .
                     .           .           .
5692                 .           .           .           .<-------   D72tS
5690                 .           .           .       B72tS
                     .           .           .           V
                     .           .           .           V
5693                 .           .           .       R72tS
                     .           .           .           .
                     .           .           .           .
5699                 .       C72tS........................
                     .           .
                     .           .
5702           CC72u............
                 .
                 .
5707             .------->  D72uP
5705            D72u
                 .
                 .
5712             .------->  D72uS
5710           D72uW
                V
                V
5715           R72uW
                 .
                 .
5723                 .      .<-------   D76tP
5721                 .  BD76tP
                     .           .
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                .           .           .
5726            .           .           .-------> D76tP2
5724            .           .      D76tP1
                .           .           V
                .           .           V
5729            .           .      P76tS1
                .           .           .
                .           .           .
5734            .           .           .           .<-------  D76tP2
5732            .           .           .      B76tP2
                .           .           .           V
                .           .           .           V
5735            .           .           .      P76tS2
                .           .           .           .
                .           .           .           .
5740            .           .           .           .           .<-------   D76tS
5738            .           .           .           .      BD76tS
                .           .           .           .           V
                .           .           .           .           V
5741            .           .           .           .       R76tS
                .           .           .           .           .
                .           .           .           .           .
5747            .           .       C76tS.......................
                .           .           .
                .           .           .
5750            .           .           .         76u
                .           .           .           .
                .           .           .           .
5757            .        C76u........................
                .           .
                .           .
5762            .           .------->   D76uP
5760            .        D76u
                .           .
                .           .
5767            .           .------->   D76uS
5765            .       D76uW
                .           V
                .           V
5770            .       R76uW
                .           .
                .           .
5776            .           .         80u
                .           .           .
                .           .           .
5783         C80u........................
                .
                .
5788            .           .<-------   D80tP
5786            .      BD80tP
                .           V
                .           V
5789            .       P80tS
                .           .
                .           .
5794            .           .           .<-------   D80qW
5792            .           .      BD80qW
                .           .           .
                .           .           .
5795         CC80u........................
                V
                V
5798         S-I17
                .
                .
5807            .------->   D80uP
5805         D80u
                V
                V
5810         R80uW
                .
                .
5816            .         84t
                .           .
                .           .
5823            .           .       P84tN
                .           .           .
                .           .           .
5829            .        C84t............
                .           .
                .           .
5834            .           .------->   D84tP
5832            .        D84t
                .           .
                .           .
5839            .           .------->   D84tW
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5837            .       D84tS
                .           V
                .           V
5842            .       R84tS
                .           .
                .           .
5848            .           .         84u
                .           .           .
                .           .           .
5855         C84u.......................
                V
                V
5858         S84u
                .
                .
5866            .           .<-------   D84tP
5864            .      BD84tP
                .           V
                .           V
5867            .       P84tS
                .           .
                .           .
5870        CC84u............
                .
                .
5875            .------->   D84uP
5873         D84u
                .
                .
5880            .------->   D84uS
5878        D84uW
                V
                V
5883        R84uW
                .
                .
5889            .         88t
                .           .
                .           .
5898            .           .           .<-------   D84tW
5896            .           .      BD84tW
                .           .           V
                .           .           V
5899            .           .       R84tW
                .           .           .
                .           .           .
5905            .        C88t............
                .           .
                .           .
5910            .           .------->   D88tW
5908            .       D88tS
                .           V
                .           V
5913            .       R88tS
                .           .
                .           .
5919            .           .         88u
                .           .           .
                .           .           .
5926         C88u.......................
                .
                .
5931            .------->   D88uP
5929         D88u
                .
                .
5936            .------->   D88uS
5934        D88uW
                V
                V
5939        R88uW
                .
                .
5947            .           .<-------   D88uP
5945            .      BD88uP
                .           V
                .           V
5948            .       P88uW
                .           .
                .           .
5951        C88uW............
                .
                .
5954            .         92t
                .           .
                .           .
```

```
5963          .           .           .<-------   D88tW
5961          .           .      BD88tW
              .           .           V
              .           .           V
5964          .           .       R88tW
              .           .           .
              .           .           .
5970          .        C92t............
              .           V
              .           V
5973          .       R92tS
              .           .
              .           .
5979          .           .         92u
              .           .           .
              .           .           .
5986          .           .           .       P92uN
              .           .           .           .
              .           .           .           .
5992       C92u...................................
              .
              .
5997          .------->   D92uP
5995       D92u
              V
              V
6000      R92uS
              .
              .
6008          .           .<-------   D92uP
6006          .       B92uP
              .           V
              .           V
6009          .       P92uS
              .           .
              .           .
6012      C92uS............
              .
              .
6015          .         76v
              .           .
              .           .
6024          .           .           .<-------   D76uP
6022          .           .       B76uP
              .           .           .
              .           .           .
6027          .           .           .-------> D76uP1
6025          .           .      D76uP2
              .           .           V
              .           .           V
6030          .           .      P76uS2
              .           .           .
              .           .           .
6035          .           .           .           .<-------   D76uS
6033          .           .           .      BD76uS
              .           .           .           V
              .           .           .           V
6036          .           .           .       R76uS
              .           .           .           .
              .           .           .           .
6042          .           .       C76uS............
              .           .           .
              .           .           .
6045          .        C76v............
              .           .
              .           .
6050          .           .------->   D76vP
6048          .        D76v
              .           .
              .           .
6055          .           .------->   D76vS
6053          .       D76vW
              .           V
              .           V
6058          .       R76vW
              .           .
              .           .
6064          .           .         80v
              .           .           .
              .           .           .
6073          .           .           .           .<-------  D76uP1
6071          .           .           .      B76uP1
              .           .           .           V
              .           .           .           V
6074          .           .           .      P76uS1
              .           .           .           .
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                .          .          .          .
6077            .       C80v.......................
                .          .
                .          .
6082            .          .-------> D80vP
6080            .       D80v
                .          .
                .          .
6087            .          .-------> D80vS
6085            .      D80vW
                .          V
                .          V
6090            .      R80vW
                .          .
                .          .
6096            .          .        84v
                .          .          .
                .          .          .
6105            .          .          .          .<-------  D80uP
6103            .          .          .     BD80uP
                .          .          .          V
                .          .          .          V
6106            .          .          .      P80uS
                .          .          .          .
                .          .          .          .
6109            .       C84v.......................
                .          .
                .          .
6114            .          .          .<-------  D84uP
6112            .          .     BD84uP
                .          .          V
                .          .          V
6115            .          .      P84uS
                .          .          .
                .          .          .
6120            .          .          .          .<-------  D84uS
6118            .          .          .     BD84uS
                .          .          .          V
                .          .          .          V
6121            .          .          .      R84uS
                .          .          .          .
                .          .          .          .
6127            .          .      C84uS...........
                .          .          .
                .          .          .
6130            .      CC84v...........
                .          .
                .          .
6136            .          .-------> D84vP
6133            .       D84v
                .          .
                .          .
6141            .          .-------> D84vS
6139            .      D84vW
                .          V
                .          V
6144            .      R84vW
                .          .
                .          .
6150            .          .        88v
                .          .          .
                .          .          .
6159            .          .          .          .<-------  D88uS
6157            .          .          .     BD88uS
                .          .          .          V
                .          .          .          V
6160            .          .          .      R88uS
                .          .          .          .
                .          .          .          .
6166            .       C88v.......................
                .          .
                .          .
6171            .          .-------> D88vP
6169            .       D88v
                .          V
                .          V
6174            .      R88vW
                .          .
                .          .
6180            .          .        92v
                .          .          .
                .          .          .
6187         C92v.......................
                .
                .
6192            .-------> D92v
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6190      D92vP
              V
              V
6195      P92vS
              .
              .
6198          .         88w
              .           .
              .           .
6207          .           .           .<-------   D88vP
6205          .           .      BD88vP
              .           .           V
              .           .           V
6208          .           .       P88vS
              .           .           .
              .           .           .
6211       C88w.......................
              .
              .
6214          .         44v
              .           .
              .           .
6223          .           .           .<-------   D44sP
6221          .           .      BD44sP
              .           .           V
              .           .           V
6224          .           .       P44sS
              .           .           .
              .           .           .
6227          .        C44v............
              .           .
              .           .
6232          .           .           .<-------  D48oPT
6230          .           .      B48oPT
              .           .           V
              .           .           V
6233          .           .       PT48o
              .           .           .
              .           .           .
6238          .           .           .           .<-------  D48qPT
6236          .           .           .      B48qPT
              .           .           .           .
              .           .           .           .
6239          .           .      CPT48q............
              .           .           V
              .           .           V
6242          .           .       PT48q
              .           .           .
              .           .           .
6247          .           .           .           .<-------  D48sPT
6245          .           .           .      B48sPT
              .           .           .           .
              .           .           .           .
6248          .           .      CPT48s............
              .           .           V
              .           .           V
6251          .           .       PT48s
              .           .           .
              .           .           .
6254          .           .           .         48v
              .           .           .           .
              .           .           .           .
6261          .           .       C48v............
              .           .           .
              .           .           .
6264          .      NUL48v............
              .           .
              .           .
6267          .           .         52v
              .           .           .
              .           .           .
6276          .           .           .           .<-------   D52uP
6274          .           .           .      BD52uP
              .           .           .           V
              .           .           .           V
6277          .           .           .       P52uS
              .           .           .           .
              .           .           .           .
6282          .           .           .           .           .<-------   D52uS
6280          .           .           .           .      BD52uS
              .           .           .           .           V
              .           .           .           .           V
6283          .           .           .           .       R52uS
              .           .           .           .           .
              .           .           .           .           .
6289          .           .           .      C52uS............
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                .         .         .         .
                .         .         .         .
6292            .         .      C52v..........
                .         .         .
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6295            .    NUL52v..........
                .         .
                .         .
6298            .         .       56v
                .         .         .
                .         .         .
6307            .         .         .         .<-------   D56uP
6305            .         .         .    BD56uP
                .         .         .         V
                .         .         .         V
6308            .         .         .     P56uS
                .         .         .         .
                .         .         .         .
6313            .         .         .         .           .<-------   D56uS
6311            .         .         .         .      BD56uS
                .         .         .         .           V
                .         .         .         .           V
6314            .         .         .         .      R56uS
                .         .         .         .           .
                .         .         .         .           .
6320            .         .         .     C56uS...........
                .         .         .         .
                .         .         .         .
6323            .         .      C56v..........
                .         .         .
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6326            .    NUL56v..........
                .         .
                .         .
6329            .         .       60v
                .         .         .
                .         .         .
6338            .         .         .         .<-------   D60uP
6336            .         .         .    BD60uP
                .         .         .         V
                .         .         .         V
6339            .         .         .     P60uS
                .         .         .         .
                .         .         .         .
6344            .         .         .         .           .<-------   D60uS
6342            .         .         .         .      BD60uS
                .         .         .         .           V
                .         .         .         .           V
6345            .         .         .         .      R60uS
                .         .         .         .           .
                .         .         .         .           .
6351            .         .         .     C60uS...........
                .         .         .         .
                .         .         .         .
6354            .         .      C60v..........
                .         .         .
                .         .         .
6357            .    NUL60v..........
                .         .
                .         .
6362            .         .         .<-------  DPT64o
6360            .         .    BPT64o
                .         .         .
                .         .         .
6365            .         .         .         .<-------  D64qPT
6363            .         .         .    B64qPT
                .         .         .         .
                .         .         .         .
6366            .         .    CPT64q..........
                .         .         V
                .         .         V
6369            .         .     PT64q
                .         .         .
                .         .         .
6374            .         .         .         .<-------  D64sPT
6372            .         .         .    B64sPT
                .         .         .         .
                .         .         .         .
6375            .         .    CPT64s..........
                .         .         V
                .         .         V
6378            .         .     PT64s
                .         .         .
                .         .         .
6383            .         .         .         .<-------  D64tPT
6381            .         .         .    B64tPT
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                .         .         .         .
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6384            .         .     CPT64t.........
                .         .         V
                .         .         V
6387            .         .      PT64t
                .         .         .
                .         .         .
6392            .         .         .         .<-------  D64uPT
6390            .         .         .     B64uPT
                .         .         .         .
                .         .         .         .
6393            .         .     CPT64u.........
                .         .         V
                .         .         V
6396            .         .     PT64u
                .         .         .
                .         .         .
6399            .         .         .       64v
                .         .         .         .
                .         .         .         .
6408            .         .         .         .         .<-------   D64uP
6406            .         .         .         .     BD64uP
                .         .         .         .         V
                .         .         .         .         V
6409            .         .         .         .      P64uS
                .         .         .         .         .
                .         .         .         .         .
6414            .         .         .         .         .         .<-------   D64uS
6412            .         .         .         .         .     BD64uS
                .         .         .         .         .         V
                .         .         .         .         .         V
6415            .         .         .         .         .      R64uS
                .         .         .         .         .         .
                .         .         .         .         .         .
6421            .         .         .         .      C64uS.........
                .         .         .         .         .
                .         .         .         .         .
6424            .         .      C64v.......................
                .         .         .
                .         .         .
6427            .     NUL64v.........
                .         .
                .         .
6430            .         .       68v
                .         .         .
                .         .         .
6439            .         .         .         .<-------   D68uP
6437            .         .         .     BD68uP
                .         .         .         V
                .         .         .         V
6440            .         .         .      P68uS
                .         .         .         .
                .         .         .         .
6445            .         .         .         .         .<-------   D68uS
6443            .         .         .         .     BD68uS
                .         .         .         .         V
                .         .         .         .         V
6446            .         .         .         .      R68uS
                .         .         .         .         .
                .         .         .         .         .
6452            .         .         .     C68uS.........
                .         .         .         .
                .         .         .         .
6455            .         .      C68v.........
                .         .         .
                .         .         .
6458            .     NUL68v.........
                .         .
                .         .
6461            .         .       72v
                .         .         .
                .         .         .
6470            .         .         .         .<-------   D72uP
6468            .         .         .     BD72uP
                .         .         .         .
                .         .         .         .
6473            .         .         .         .-------> D72uP2
6471            .         .         .     D72uP1
                .         .         .         V
                .         .         .         V
6476            .         .         .     P72uS1
                .         .         .         .
                .         .         .         .
6481            .         .         .         .         .<-------  D72uP2
6479            .         .         .         .     B72uP2
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                 .         .         .         .         V
                 .         .         .         .         V
6482             .         .         .         .     P72uS2
                 .         .         .         .         .
                 .         .         .         .         .
6487             .         .         .         .         .          .<-------   D72uS
6485             .         .         .         .         .     BD72uS
                 .         .         .         .         .         V
                 .         .         .         .         .         V
6488             .         .         .         .         .     R72uS
                 .         .         .         .         .         .
                 .         .         .         .         .         .
6494             .         .         .     C72uS.......................
                 .         .         .         .
                 .         .         .         .
6497             .         .     C72v............
                 .         .         .
                 .         .         .
6500             .   NUL72v............
                 .         .
                 .         .
6503             .         .     76w
                 .         .         .
                 .         .         .
6512             .         .         .         .<-------   D76vS
6510             .         .         .     BD76vS
                 .         .         .         V
                 .         .         .         V
6513             .         .         .     R76vS
                 .         .         .         .
                 .         .         .         .
6521             .         .         .         .         .<-------   D76vP
6519             .         .         .         .     BD76vP
                 .         .         .         .         V
                 .         .         .         .         V
6522             .         .         .         .     P76vS
                 .         .         .         .         .
                 .         .         .         .         .
6525             .         .         .     C76vS............
                 .         .         .         .
                 .         .         .         .
6528             .         .     C76w............
                 .         .         .
                 .         .         .
6531             .   NUL76w............
                 .         .
                 .         .
6534             .         .      80w
                 .         .         .
                 .         .         .
6543             .         .         .         .<-------   D80vS
6541             .         .         .     BD80vS
                 .         .         .         V
                 .         .         .         V
6544             .         .         .     R80vS
                 .         .         .         .
                 .         .         .         .
6550             .         .     C80w............
                 .         .         .
                 .         .         .
6553             .   NUL80w............
                 .         .
                 .         .
6558             .         .         .<-------   D84vS
6556             .         .   BD84vS
                 .         .         V
                 .         .         V
6559             .         .     R84vS
                 .         .         .
                 .         .         .
6567             .         .         .         .<-------   D84vP
6565             .         .         .     BD84vP
                 .         .         .         .
                 .         .         .         .
6570             .         .         .         .-------> D84vP2
6568             .         .         .     D84vP1
                 .         .         .         V
                 .         .         .         V
6573             .         .         .     P84vS1
                 .         .         .         .
                 .         .         .         .
6578             .         .         .         .         .<-------  D84vP2
6576             .         .         .         .     B84vP2
                 .         .         .         .         V
                 .         .         .         .         V
6579             .         .         .         .     P84vS2
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                .          .          .          .          .
                .          .          .          .          .
6582            .          .      C84vS.......................
                .          .          .
                .          .          .
6585            .          .          .        84w
                .          .          .          .
                .          .          .          .
6594            .          .          .          .          .<-------   D80vP
6592            .          .          .          .     BD80vP
                .          .          .          .          V
                .          .          .          .          V
6595            .          .          .          .      P80vS
                .          .          .          .          .
                .          .          .          .          .
6598            .          .      C84w........................
                .          .          .
                .          .          .
6601            .     NUL84w............
                .          .
                .          .
6604      NUL88w............
                .
                .
6607            .        24s
                .          V
                .          V
6614            .       S24s
                .          .
                .          .
6622            .          .          .<-------  D28qP2
6620            .          .     B28qP2
                .          .          V
                .          .          V
6623            .          .      P28qE
                .          .          .
                .          .          .
6626            .       C24s............
                .          .
                .          .
6631            .          .------->   D24sP
6629            .       D24s
                .          V
                .          V
6634            .      R24sS
                .          .
                .          .
6642            .          .          .<-------   D24sP
6640            .          .     BD24sP
                .          .          .
                .          .          .
6645            .          .          .-------> D24sPE
6643            .          .     D24sPS
                .          .          V
                .          .          V
6648            .          .      P24sS
                .          .          .
                .          .          .
6651            .      C24sS............
                .          .
                .          .
6654            .          .        24t
                .          .          .
                .          .          .
6661            .       C24t............
                .          V
                .          V
6664            .      S24t
                .          .
                .          .
6670            .          .        04s
                .          .          V
                .          .          V
6677            .          .       S04s
                .          .          V
                .          .          V
6684            .          .      R04sS
                .          .          .
                .          .          .
6690            .          .          .        08q
                .          .          .          V
                .          .          .          V
6697            .          .          .      R08qS
                .          .          .          .
                .          .          .          .
6703            .          .          .          .        08s
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                 .          .          .          .          .
                 .          .          .          .          .
6710             .          .       C08s.......................
                 .          .          V
                 .          .          V
6713             .          .      S08s
                 .          .          .
                 .          .          .
6722             .          .          .-------->   D08sP
6720             .          .       D08s
                 .          .          V
                 .          .          V
6725             .          .      R08sW
                 .          .          .
                 .          .          .
6731             .          .          .         12q
                 .          .          .          V
                 .          .          .          V
6738             .          .          .       R12qS
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6744             .          .          .          .         12s
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6751             .          .          .          .       S12s
                 .          .          .          .           .
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6758             .          .          .       C12s............
                 .          .          .          V
                 .          .          .          V
6761             .          .          .       R12sW
                 .          .          .          .
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6767             .          .      C12sW............
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                 .          .          .
6772             .          .          .-------->  D16sP2
6770             .          .      D16s2
                 .          .          .
                 .          .          .
6775             .          .          .         16o
                 .          .          .          V
                 .          .          .          V
6782             .          .          .       R16oS
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6788             .          .          .          .         16q
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6795             .          .          .       C16q............
                 .          .          .          V
                 .          .          .          V
6798             .          .          .       S16q
                 .          .          .          .
                 .          .          .          .
6806             .          .          .          .-------->   D16qP
6804             .          .          .       D16q
                 .          .          .          V
                 .          .          .          V
6809             .          .          .       R16qS
                 .          .          .          .
                 .          .          .          .
6815             .          .          .          .         16s
                 .          .          .          .           .
                 .          .          .          .           .
6822             .          .       C16s.......................
                 .          .          V
                 .          .          V
6825             .          .       S16s
                 .          .          .
                 .          .          .
6833             .          .          .          .<--------   D16qP
6831             .          .          .      BD16qP
                 .          .          .          .
                 .          .          .          .
6837             .          .          .          .-------->  D16qPW
6834             .          .          .      D16qPS
                 .          .          .          V
                 .          .          .          V
6840             .          .          .       P16qS
                 .          .          .          .
                 .          .          .          .
6843             .          .      CC16s............
                 .          .          .
                 .          .          .
6848             .          .          .-------->   D16sP
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6846          .          .        D16s
              .          .          V
              .          .          V
6851          .          .       R16sS
              .          .          .
              .          .          .
6859          .          .          .          .<-------   D16sP
6857          .          .          .      BD16sP
              .          .          .          V
              .          .          .          V
6860          .          .          .       P16sS
              .          .          .          .
              .          .          .          .
6863          .          .       C16sS............
              .          .          .
              .          .          .
6866          .          .          .         20p
              .          .          .          V
              .          .          .          V
6873          .          .          .       S20p1
              .          .          .          .
              .          .          .          .
6881          .          .          .          .           .<-------  D16qPW
6879          .          .          .          .      B16qPW
              .          .          .          .           V
              .          .          .          .           V
6882          .          .          .          .       P16qW
              .          .          .          .           .
              .          .          .          .           .
6885          .          .          .        C20p............
              .          .          .          V
              .          .          .          V
6888          .          .          .       S20p2
              .          .          .          .
              .          .          .          .
6895          .          .          .          .      OCCC48
              .          .          .          .           .
              .          .          .          .           .
6903          .          .          .          .           .           .<-------   D24oP
6901          .          .          .          .           .     BD24oP
              .          .          .          .           .          V
              .          .          .          .           .          V
6904          .          .          .          .           .      P24oS
              .          .          .          .           .          .
              .          .          .          .           .          .
6907          .          .          .          .       C24oS............
              .          .          .          .           V
              .          .          .          .           V
6910          .          .          .          .       ROCCC
              .          .          .          .           .
              .          .          .          .           .
6916          .          .          .       CC20p............
              .          .          .          V
              .          .          .          V
6919          .          .          .       R20pS
              .          .          .          .
              .          .          .          .
6925          .          .          .          .         20q
              .          .          .          .           .
              .          .          .          .           .
6934          .          .          .          .           .           .<-------  D28pP2
6932          .          .          .          .           .     B28pP2
              .          .          .          .           .          V
              .          .          .          .           .          V
6935          .          .          .          .           .      P28pE
              .          .          .          .           .          .
              .          .          .          .           .          .
6938          .          .          .        C20q........................
              .          .          .          V
              .          .          .          V
6941          .          .          .       R20qS
              .          .          .          .
              .          .          .          .
6947          .          .          .          .         20s
              .          .          .          .           V
              .          .          .          .           V
6954          .          .          .          .       S20s
              .          .          .          .           .
              .          .          .          .           .
6960          .          .          .        C20s............
              .          .          .          .
              .          .          .          .
6965          .          .          .          .           .<-------  D24sPE
6963          .          .          .          .      B24sPE
              .          .          .          .           V
              .          .          .          .           V
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6966          .          .          .          .       P24sE
              .          .          .          .          .
              .          .          .          .          .
6969          .          .          .      CC20s...........
              .          .          .          V
              .          .          .          V
6972          .          .          .      R20sS
              .          .          .          .
              .          .          .          .
6978          .          .          .          .        20t
              .          .          .          .          V
              .          .          .          .          V
6985          .          .          .          .       S20t
              .          .          .          .          .
              .          .          .          .          .
6991          .          .       C20t......................
              .          .          .
              .          .          .
6994          .     NUL20t...........
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(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

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1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   11JUL06  TIME  09:12:13   *
 *                                       *
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*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
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Project ID: METRO_6HOUR - Major Basin: 01 - Return Period: 100 Years
METRO PHOENIX ADMS/P - FCD2004C040: Wood/Patel in association with EEC
100-Year 6-Hour Storm
Maricopa County 6-hour Local Storm Distribution
Green and Ampt Loss Method
Clark Unit Hydrograph
Future Land Use Conditions
Model Name: FC06BASE.DAT, June 2006

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Important Notes:
1)  Peak flow for each subbasin may not concentrate on one single point,
    for illustration purposes, it is assumed that the concentration point
    is located on the hydrologic low point of the subbasin;
2)  Surface flow diversions may occur at several locations along one of the
    subbasin downstream boundaries.  For simplicity, one split flow is
    modeled for each subbasin to one direction;
3)  A fixed flow split ratio for most of the subbasin is used for all
    frequencies except some of the subbasins along Grand Canal.
4)  Some subbasins have multiple pipes to one direction, a composite storm
    drain pipe may have been used to model these conditions;
5)  Some subbasins have multiple detention/retention basins, an equivalent
    detention/retention basin may have been used to model these conditions;
6)  Surface flow routing may occur at multiple streets and as sheet flow,
    a composite channel cross section is used to represent the streets
    flow conveyance.

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HEC-1 ELEMENT NOMENCLATURE

SUB-BASIN HYDROGRAPH:
   Example: "80c" is the hydrograph from subbasin 80c

SUB-BASIN FLOW DIVERSION:
   Example: "D80cS" is the south component of diversion in Subbasin 80c

PIPE FLOW DIVERSION:
   Example: "80cP" is the pipe flow from Subbasin 80c

PIPE FLOW ROUTING:
   Example: "P80cS" is the south component of pipe routing from Subbasin 80c

CHANNEL ROUTE:
   Example: "R80cS" is the south component of surface flow routing from 80c

STORAGE ROUTE:
   Example: "S80c" is the storage routing in Subbasin 80c

HYDROGRAPH COMBINE:
   Example: "C80c" is the combined flow in Subbasin 80c

HYDROGRAPH RETRIEVAL:
   Example: "B80c" is the retrieved flow from Subbasin 80c

"DUMMY" COMBINE:
   Example: "NUL80C" is the dummy hydrograph combining to free up a HEC-1
            computational path.
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 62 IO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN           5  MINUTES IN COMPUTATION INTERVAL
                      IDATE      1    0  STARTING DATE
                      ITIME        0000  STARTING TIME
                         NQ        2000  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE      7    0  ENDING DATE
                     NDTIME        2235  ENDING TIME
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                ICENT          19  CENTURY MARK

            COMPUTATION INTERVAL      .08 HOURS
                 TOTAL TIME BASE  166.58 HOURS

      ENGLISH UNITS
           DRAINAGE AREA          SQUARE MILES
           PRECIPITATION DEPTH    INCHES
           LENGTH, ELEVATION      FEET
           FLOW                   CUBIC FEET PER SECOND
           STORAGE VOLUME         ACRE-FEET
           SURFACE AREA           ACRES
           TEMPERATURE            DEGREES FAHRENHEIT

63 JD        INDEX STORM NO. 1
                 STRM        3.20  PRECIPITATION DEPTH
                 TRDA         .01  TRANSPOSITION DRAINAGE AREA

64 PI          PRECIPITATION PATTERN
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                 .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                 .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00

67 JD        INDEX STORM NO. 2
                 STRM        3.18  PRECIPITATION DEPTH
                 TRDA         .50  TRANSPOSITION DRAINAGE AREA

68 PI          PRECIPITATION PATTERN
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                 .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                 .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00

71 JD        INDEX STORM NO. 3
                 STRM        3.12  PRECIPITATION DEPTH
                 TRDA        2.80  TRANSPOSITION DRAINAGE AREA

72 PI          PRECIPITATION PATTERN
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                 .03       .03       .07       .07       .07       .08       .08       .08       .05       .05
                 .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00

75 JD        INDEX STORM NO. 4
                 STRM        2.95  PRECIPITATION DEPTH
                 TRDA       16.00  TRANSPOSITION DRAINAGE AREA

76 PI          PRECIPITATION PATTERN
                 .01       .01       .00       .00       .00       .00       .00       .00       .00       .01
                 .01       .01       .00       .01       .00       .00       .00       .00       .00       .00
                 .00       .00       .01       .00       .00       .00       .00       .01       .01       .01
                 .01       .01       .01       .01       .01       .01       .02       .02       .02       .03
                 .03       .03       .06       .06       .06       .07       .07       .07       .04       .04
                 .04       .02       .02       .02       .01       .01       .01       .01       .01       .01
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00

79 JD        INDEX STORM NO. 5
                 STRM        2.60  PRECIPITATION DEPTH
                 TRDA       90.00  TRANSPOSITION DRAINAGE AREA

80 PI          PRECIPITATION PATTERN
                 .01       .01       .01       .00       .00       .00       .01       .01       .01       .01
                 .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                 .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                 .01       .01       .01       .01       .01       .01       .02       .02       .02       .03
                 .03       .03       .05       .05       .05       .05       .05       .05       .04       .04
                 .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                 .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                 .01       .01
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RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
+	HYDROGRAPH AT	64c	220.	4.33	42.	11.	4.	.26		
+	DIVERSION TO	D64cS	149.	4.33	28.	7.	2.	.26		
+	HYDROGRAPH AT	D64cW	71.	4.33	13.	3.	1.	.26		
+	ROUTED TO	R64cW	66.	4.67	13.	3.	1.	.26		
+	HYDROGRAPH AT	68c	254.	4.33	47.	12.	4.	.43		
+	2 COMBINED AT	C68c	273.	4.50	57.	15.	5.	.70		
+	DIVERSION TO	D68cP	41.	3.92	22.	6.	2.	.70		
+	HYDROGRAPH AT	D68c	232.	4.50	35.	9.	3.	.70		
+	DIVERSION TO	D68cS	107.	4.50	16.	4.	1.	.70		
+	HYDROGRAPH AT	D68cW	126.	4.50	19.	5.	2.	.70		
+	ROUTED TO	R68cW	116.	4.75	19.	5.	2.	.70		
+	HYDROGRAPH AT	72c	133.	4.58	39.	10.	3.	.54		
+	2 COMBINED AT	C72c	197.	4.75	50.	13.	4.	1.24		
+	DIVERSION TO	D72cP	90.	4.58	36.	9.	3.	1.24		
+	HYDROGRAPH AT	D72c	107.	4.75	14.	3.	1.	1.24		
+	DIVERSION TO	D72cS	96.	4.75	12.	3.	1.	1.24		
+	HYDROGRAPH AT	D72cW	11.	4.75	1.	0.	0.	1.24		
+	ROUTED TO	R72cW	7.	5.75	1.	0.	0.	1.24		
+	HYDROGRAPH AT	76C	668.	4.33	115.	29.	10.	.60		
+	2 COMBINED AT	C76c	542.	4.42	107.	27.	9.	1.84		
+	DIVERSION TO	D76c	503.	4.42	84.	21.	7.	1.84		
+	HYDROGRAPH AT	D76cP	39.	3.75	23.	6.	2.	1.84		
+	HYDROGRAPH AT	84c	422.	4.50	112.	29.	10.	.47		
+	DIVERSION TO	D84cS	324.	4.50	86.	22.	7.	.47		
	HYDROGRAPH AT	D84cE	98.	4.50	26.	7.	2.	.47		
+	ROUTED TO	R84cE	92.	4.83	26.	7.	2.	.47		

+	HYDROGRAPH AT 80c	598.	4.42	126.	32.	11.	.66
+	ROUTED TO S80c	583.	4.50	119.	30.	10.	.66
+	2 COMBINED AT C80c	595.	4.58	139.	35.	12.	1.13
+	DIVERSION TO D80c	576.	4.58	124.	31.	10.	1.13
+	HYDROGRAPH AT D80cP	19.	3.83	14.	4.	1.	1.13
+	2 COMBINED AT C76cP	58.	3.75	36.	10.	3.	2.97
+	ROUTED TO P76cS	58.	3.92	36.	10.	3.	2.97
+	DIVERSION TO D80eP1	19.	3.92	12.	3.	1.	2.97
+	HYDROGRAPH AT D76eP1	39.	3.92	25.	7.	2.	2.97
+	HYDROGRAPH AT 56e	114.	4.25	18.	5.	2.	.18
+	DIVERSION TO D56eS	60.	4.25	10.	2.	1.	.18
+	HYDROGRAPH AT D56eW	53.	4.25	9.	2.	1.	.18
+	ROUTED TO R56eW	48.	4.58	9.	2.	1.	.18
+	HYDROGRAPH AT 60e	244.	4.42	54.	14.	5.	.41
+	2 COMBINED AT C60e	273.	4.50	61.	15.	5.	.58
+	DIVERSION TO D60eP	75.	4.08	34.	9.	3.	.58
+	HYDROGRAPH AT D60e	198.	4.50	28.	7.	2.	.58
+	DIVERSION TO D60eS	68.	4.50	9.	2.	1.	.58
+	HYDROGRAPH AT D60eW	131.	4.50	18.	5.	2.	.58
+	ROUTED TO R60eW	124.	4.83	18.	5.	2.	.58
+	HYDROGRAPH AT 64e	231.	4.42	54.	14.	5.	.50
+	HYDROGRAPH AT B64cS	149.	4.33	28.	7.	2.	.26
+	ROUTED TO R64cS	133.	4.83	28.	7.	2.	.26
+	3 COMBINED AT C64e	355.	4.83	83.	21.	7.	1.35
+	DIVERSION TO D64eS	177.	4.83	42.	11.	4.	1.35
+	HYDROGRAPH AT D64eW	177.	4.83	42.	11.	4.	1.35
+	ROUTED TO R64eW	172.	5.00	42.	11.	4.	1.35
+	HYDROGRAPH AT 68e	219.	4.50	52.	13.	4.	.50
	HYDROGRAPH AT						

+	B68cP	41.	3.92	22.	6.	2.	.70
ROUTED TO	P68cS	41.	4.08	22.	6.	2.	.70
HYDROGRAPH AT +	B68cS	107.	4.50	16.	4.	1.	.70
ROUTED TO +	R68cS	98.	4.83	16.	4.	1.	.70
2 COMBINED AT +	C68cS	139.	4.83	38.	10.	3.	.70
3 COMBINED AT +	C68e	372.	4.92	109.	28.	9.	2.28
DIVERSION TO +	D68eP	63.	3.92	42.	11.	4.	2.28
HYDROGRAPH AT +	D68e	309.	4.92	67.	17.	6.	2.28
DIVERSION TO +	D68eS	167.	4.92	36.	9.	3.	2.28
HYDROGRAPH AT +	D68eW	142.	4.92	31.	8.	3.	2.28
ROUTED TO +	R68eW	135.	5.25	31.	8.	3.	2.28
HYDROGRAPH AT +	72e	234.	4.50	57.	15.	5.	.50
HYDROGRAPH AT +	B72cP	90.	4.58	36.	9.	3.	1.24
ROUTED TO +	P72cS	90.	4.67	36.	9.	3.	1.24
HYDROGRAPH AT	B72cS	96.	4.75	12.	3.	1.	1.24
ROUTED TO +	R72cS	72.	5.25	12.	3.	1.	1.24
2 COMBINED AT +	C72cS	162.	5.25	48.	12.	4.	1.24
3 COMBINED AT +	C72e	325.	5.25	108.	28.	9.	3.32
DIVERSION TO +	D72eP	195.	4.83	86.	22.	7.	3.32
HYDROGRAPH AT +	D72e	130.	5.25	22.	6.	2.	3.32
DIVERSION TO +	D72eS	117.	5.25	20.	5.	2.	3.32
HYDROGRAPH AT +	D72eW	13.	5.25	2.	1.	0.	3.32
ROUTED TO +	R72eW	10.	6.25	2.	1.	0.	3.32
HYDROGRAPH AT +	76e	375.	4.42	78.	20.	7.	.50
HYDROGRAPH AT +	B76c	503.	4.42	84.	21.	7.	1.84
ROUTED TO +	R76cS	477.	4.67	84.	21.	7.	1.84
4 COMBINED AT +	C76e	683.	4.67	163.	42.	14.	4.42
DIVERSION TO	D76e	662.	4.67	143.	36.	12.	4.42
HYDROGRAPH AT +	D76eP	21.	3.25	20.	6.	2.	4.42

+	HYDROGRAPH AT	BD84cS	324.	4.50	86.	22.	7.	.47
	ROUTED TO	R84cS	310.	4.83	86.	22.	7.	.47
+	HYDROGRAPH AT	84e	137.	4.50	38.	10.	3.	.21
+	2 COMBINED AT	C84e	423.	4.75	122.	32.	11.	.68
+	DIVERSION TO	D84eS	167.	4.75	48.	12.	4.	.68
+	HYDROGRAPH AT	D84eE	256.	4.75	74.	19.	6.	.68
+	ROUTED TO	R84eE	243.	5.17	74.	19.	6.	.68
+	HYDROGRAPH AT	80e	482.	4.33	94.	24.	8.	.49
+	HYDROGRAPH AT	B80eP1	19.	3.92	12.	3.	1.	2.97
+	HYDROGRAPH AT	BD80c	576.	4.58	124.	31.	10.	1.13
+	ROUTED TO	R80cS	548.	4.83	124.	31.	10.	1.13
+	4 COMBINED AT	C80e	965.	4.92	283.	73.	24.	1.84
+	DIVERSION TO	D80e	910.	4.92	236.	59.	20.	1.84
+	HYDROGRAPH AT	D80eP	55.	3.83	47.	14.	5.	1.84
+	2 COMBINED AT	C76eP	76.	3.75	67.	20.	7.	6.26
+	ROUTED TO	P76eS	76.	3.83	67.	20.	7.	6.26
+	DIVERSION TO	D80gP1	55.	3.83	49.	14.	5.	6.26
+	HYDROGRAPH AT	D76gP1	21.	3.83	18.	5.	2.	6.26
+	HYDROGRAPH AT	76g	448.	4.33	90.	23.	8.	.50
+	HYDROGRAPH AT	BD76e	662.	4.67	143.	36.	12.	4.42
+	ROUTED TO	R76eS	640.	4.92	143.	36.	12.	4.42
+	3 COMBINED AT	C76g	871.	4.92	229.	59.	20.	4.92
+	DIVERSION TO	D76gP2	48.	3.58	41.	12.	4.	4.92
+	HYDROGRAPH AT	D76g1	823.	4.92	188.	47.	16.	4.92
+	DIVERSION TO	D76gP	57.	3.92	32.	8.	3.	4.92
+	HYDROGRAPH AT	D76g	766.	4.92	156.	39.	13.	4.92
+	DIVERSION TO	D76gS	536.	4.92	109.	27.	9.	4.92
+	HYDROGRAPH AT	D76gE	230.	4.92	47.	12.	4.	4.92
+	ROUTED TO	R76gE	226.	5.00	47.	12.	4.	4.92

+	HYDROGRAPH AT	B76gP2	48.	3.58	41.	12.	4.	4.92
	2 COMBINED AT	C76gE	274.	5.00	88.	24.	8.	4.92
+	HYDROGRAPH AT	54g	281.	4.25	43.	11.	4.	.25
+	DIVERSION TO	D54gS	114.	4.25	17.	4.	1.	.25
+	HYDROGRAPH AT	D54gW	168.	4.25	26.	6.	2.	.25
+	ROUTED TO	R54gW	153.	4.50	26.	6.	2.	.25
+	HYDROGRAPH AT	56g	267.	4.42	59.	15.	5.	.50
+	HYDROGRAPH AT	B56eS	60.	4.25	10.	2.	1.	.18
+	ROUTED TO	R56eS	50.	4.83	10.	2.	1.	.18
+	3 COMBINED AT	C56g	380.	4.50	86.	22.	7.	.92
+	DIVERSION TO	D56gP	130.	4.17	54.	14.	5.	.92
+	HYDROGRAPH AT	D56g	250.	4.50	32.	8.	3.	.92
+	DIVERSION TO	D56gS	140.	4.50	18.	4.	1.	.92
+	HYDROGRAPH AT	D56gW	110.	4.50	14.	3.	1.	.92
	ROUTED TO	R56gW	100.	4.83	14.	3.	1.	.92
+	HYDROGRAPH AT	60g	307.	4.42	68.	17.	6.	.50
+	HYDROGRAPH AT	B60eP	75.	4.08	34.	9.	3.	.58
+	ROUTED TO	P60eS	75.	4.17	34.	9.	3.	.58
+	HYDROGRAPH AT	B60eS	68.	4.50	9.	2.	1.	.58
+	ROUTED TO	R60eS	59.	4.92	9.	2.	1.	.58
+	2 COMBINED AT	C60eS	134.	4.92	43.	11.	4.	.58
+	3 COMBINED AT	C60g	366.	4.83	108.	27.	9.	1.83
+	DIVERSION TO	D60gP	124.	4.00	63.	16.	5.	1.83
+	HYDROGRAPH AT	D60g	242.	4.83	44.	11.	4.	1.83
+	DIVERSION TO	D60gS	114.	4.83	21.	5.	2.	1.83
+	HYDROGRAPH AT	D60gW	128.	4.83	24.	6.	2.	1.83
+	ROUTED TO	R60gW	117.	5.08	24.	6.	2.	1.83
+	HYDROGRAPH AT	64g	220.	4.50	54.	14.	5.	.50
	HYDROGRAPH AT							

+	B64eS	177.	4.83	42.	11.	4.	1.35
ROUTED TO +	R64eS	165.	5.17	42.	11.	4.	1.35
3 COMBINED AT +	C64g	321.	5.17	94.	24.	8.	3.10
DIVERSION TO +	D64gP	153.	4.83	68.	18.	6.	3.10
HYDROGRAPH AT +	D64g	168.	5.17	26.	6.	2.	3.10
DIVERSION TO +	D64gS	81.	5.17	12.	3.	1.	3.10
HYDROGRAPH AT +	D64gW	87.	5.17	13.	3.	1.	3.10
ROUTED TO +	R64gW	81.	5.42	13.	3.	1.	3.10
HYDROGRAPH AT +	68g	146.	4.58	42.	11.	4.	.50
HYDROGRAPH AT +	B68eP	63.	3.92	42.	11.	4.	2.28
ROUTED TO +	P68eS	63.	4.00	42.	11.	4.	2.28
HYDROGRAPH AT +	B68eS	167.	4.92	36.	9.	3.	2.28
ROUTED TO +	R68eS	155.	5.25	36.	9.	3.	2.28
2 COMBINED AT +	C68eS	218.	5.25	78.	20.	7.	2.28
3 COMBINED AT +	C68g	310.	5.33	112.	29.	10.	4.53
DIVERSION TO +	D68gP	82.	3.92	58.	16.	5.	4.53
HYDROGRAPH AT +	D68g	228.	5.33	53.	13.	4.	4.53
DIVERSION TO +	D68gS	128.	5.33	30.	7.	2.	4.53
HYDROGRAPH AT +	D68gW	100.	5.33	23.	6.	2.	4.53
ROUTED TO +	R68gW	94.	5.67	23.	6.	2.	4.53
HYDROGRAPH AT +	72g	285.	4.50	71.	18.	6.	.50
HYDROGRAPH AT +	B72eP	195.	4.83	86.	22.	7.	3.32
ROUTED TO +	P72eS	195.	4.92	86.	22.	7.	3.32
HYDROGRAPH AT +	B72eS	117.	5.25	20.	5.	2.	3.32
ROUTED TO +	R72eS	107.	5.67	20.	5.	2.	3.32
2 COMBINED AT +	C72eS	299.	5.67	106.	27.	9.	3.32
3 COMBINED AT +	C72g	426.	5.42	167.	43.	14.	6.07
2 COMBINED AT +	CC72g	637.	5.08	243.	64.	21.	7.67
DIVERSION TO +	D72gP	178.	4.17	123.	34.	11.	7.67

+	HYDROGRAPH AT	D72g	459.	5.08	120.	30.	10.	7.67
	ROUTED TO	R72gS	449.	5.42	120.	30.	10.	7.67
+	HYDROGRAPH AT	BD72gP	178.	4.17	123.	34.	11.	7.67
+	ROUTED TO	P72gS	178.	4.25	123.	34.	11.	7.67
+	2 COMBINED AT	C72gS	627.	5.42	243.	64.	21.	7.67
+	HYDROGRAPH AT	84g	155.	4.42	41.	10.	3.	.21
+	HYDROGRAPH AT	B84eS	167.	4.75	48.	12.	4.	.68
+	ROUTED TO	R84eS	161.	5.08	48.	12.	4.	.68
+	2 COMBINED AT	C84g	255.	5.00	85.	22.	7.	.90
+	DIVERSION TO	D84gS	121.	5.00	40.	10.	3.	.90
+	HYDROGRAPH AT	D84gE	134.	5.00	45.	12.	4.	.90
+	ROUTED TO	R84gE	128.	5.42	45.	12.	4.	.90
+	HYDROGRAPH AT	80g	384.	4.42	83.	21.	7.	.50
+	HYDROGRAPH AT	BD80e	910.	4.92	236.	59.	20.	1.84
	ROUTED TO	R80eS	882.	5.08	236.	59.	20.	1.84
+	HYDROGRAPH AT	B80gP1	55.	3.83	49.	14.	5.	6.26
+	4 COMBINED AT	C80g	1168.	5.08	384.	100.	33.	2.55
+	DIVERSION TO	D80g	1149.	5.08	365.	92.	31.	2.55
+	HYDROGRAPH AT	D80gP	19.	1.42	19.	8.	3.	2.55
+	HYDROGRAPH AT	B76gP	57.	3.92	32.	8.	3.	4.92
+	2 COMBINED AT	C76gP	76.	3.92	51.	16.	5.	7.47
+	ROUTED TO	P76gS	76.	4.00	51.	16.	5.	7.47
+	DIVERSION TO	D80iP1	19.	4.00	13.	4.	1.	7.47
+	HYDROGRAPH AT	D76iP1	57.	4.00	38.	12.	4.	7.47
+	HYDROGRAPH AT	76i	527.	4.42	112.	28.	9.	.50
+	HYDROGRAPH AT	BD76gS	536.	4.92	109.	27.	9.	4.92
+	ROUTED TO	R76gS	503.	5.17	109.	27.	9.	4.92
	3 COMBINED AT	C76i	770.	5.08	241.	63.	21.	5.42
+	DIVERSION TO	D76i1	722.	5.08	198.	50.	17.	5.42

+	HYDROGRAPH AT	D76iP2	48.	3.42	43.	14.	5.	5.42
+	HYDROGRAPH AT	72i	352.	4.42	84.	21.	7.	.50
+	3 COMBINED AT	C72i	782.	5.25	340.	92.	31.	8.68
+	DIVERSION TO	D72i	524.	5.25	146.	37.	12.	8.68
+	HYDROGRAPH AT	D72iP	258.	4.08	194.	55.	18.	8.68
+	DIVERSION TO	D72iP1	226.	4.08	170.	49.	16.	8.68
+	HYDROGRAPH AT	D72iP2	32.	4.08	24.	7.	2.	8.68
+	ROUTED TO	P72iW	32.	4.17	24.	7.	2.	8.68
+	HYDROGRAPH AT	BD76i1	722.	5.08	198.	50.	17.	5.42
+	2 COMBINED AT	CC76i	743.	5.08	220.	56.	19.	5.92
+	DIVERSION TO	D76i	665.	5.08	168.	42.	14.	5.92
+	HYDROGRAPH AT	D76iP	78.	3.83	52.	14.	5.	5.92
+	HYDROGRAPH AT	BD84gS	121.	5.00	40.	10.	3.	.90
+	ROUTED TO	R84gS	116.	5.33	40.	10.	3.	.90
+	HYDROGRAPH AT	84i	126.	4.50	37.	9.	3.	.21
+	2 COMBINED AT	C84i	187.	5.17	73.	19.	6.	1.11
+	ROUTED TO	S84i	21.	7.42	11.	3.	1.	1.11
+	DIVERSION TO	D84iS	8.	7.42	4.	1.	0.	1.11
+	HYDROGRAPH AT	D84iE	13.	7.42	7.	2.	1.	1.11
+	ROUTED TO	R84iE	13.	7.92	7.	2.	1.	1.11
+	HYDROGRAPH AT	80i	524.	4.33	101.	25.	8.	.49
+	HYDROGRAPH AT	BD80g	1149.	5.08	365.	92.	31.	2.55
+	ROUTED TO	S80g	1147.	5.08	364.	92.	31.	2.55
+	ROUTED TO	R80gS	1131.	5.33	364.	92.	31.	2.55
+	HYDROGRAPH AT	B80iP1	19.	4.00	13.	4.	1.	7.47
+	4 COMBINED AT	C80i	1268.	5.25	452.	117.	39.	3.25
+	DIVERSION TO	D80i	1240.	5.25	424.	106.	35.	3.25
+	HYDROGRAPH AT	D80iP	28.	3.50	28.	10.	3.	3.25
	2 COMBINED AT							

+	C76iP	106.	3.83	79.	24.	8.	9.18
ROUTED TO	P76iS	106.	3.92	79.	24.	8.	9.18
DIVERSION TO +	D80kP1	28.	3.92	21.	6.	2.	9.18
HYDROGRAPH AT +	D76kP1	78.	3.92	58.	18.	6.	9.18
HYDROGRAPH AT +	76k	435.	4.33	73.	18.	6.	.32
HYDROGRAPH AT +	BD76i	665.	5.08	168.	42.	14.	5.92
DIVERSION TO +	D76iE	213.	5.08	54.	13.	4.	5.92
HYDROGRAPH AT +	D76iS	452.	5.08	114.	29.	10.	5.92
ROUTED TO +	R76iS	443.	5.25	114.	29.	10.	5.92
3 COMBINED AT +	C76k	641.	5.08	236.	63.	21.	5.74
DIVERSION TO +	D76k1	609.	5.08	205.	51.	17.	5.74
HYDROGRAPH AT +	D76kP2	32.	3.25	31.	12.	4.	5.74
HYDROGRAPH AT +	54i	140.	4.33	33.	8.	3.	.19
HYDROGRAPH AT +	BD54gS	114.	4.25	17.	4.	1.	.25
ROUTED TO	R54gS	103.	4.58	17.	4.	1.	.25
2 COMBINED AT +	C54i	234.	4.50	50.	13.	4.	.44
DIVERSION TO +	D54iP	68.	4.08	30.	8.	3.	.44
HYDROGRAPH AT +	D54i	166.	4.50	20.	5.	2.	.44
DIVERSION TO +	D54iS	62.	4.50	8.	2.	1.	.44
HYDROGRAPH AT +	D54iW	104.	4.50	13.	3.	1.	.44
ROUTED TO +	R54iW	92.	4.83	13.	3.	1.	.44
HYDROGRAPH AT +	56i	401.	4.33	82.	21.	7.	.50
HYDROGRAPH AT +	BD56gP	130.	4.17	54.	14.	5.	.92
ROUTED TO +	P56gS	130.	4.25	54.	14.	5.	.92
HYDROGRAPH AT +	BD56gS	140.	4.50	18.	4.	1.	.92
ROUTED TO +	R56gS	123.	4.92	18.	4.	1.	.92
2 COMBINED AT +	C56gS	253.	4.92	72.	18.	6.	.92
3 COMBINED AT	C56i	499.	4.83	150.	38.	13.	1.62
DIVERSION TO +	D56iP	204.	4.08	96.	25.	8.	1.62

+	HYDROGRAPH AT D56i	295.	4.83	54.	14.	5.	1.62
.	DIVERSION TO D56iS	144.	4.83	26.	7.	2.	1.62
+	HYDROGRAPH AT D56iW	151.	4.83	28.	7.	2.	1.62
+	ROUTED TO R56iW	145.	5.17	28.	7.	2.	1.62
+	HYDROGRAPH AT 60i	477.	4.33	98.	25.	8.	.50
+	HYDROGRAPH AT BD60gP	124.	4.00	63.	16.	5.	1.83
+	ROUTED TO P60gS	124.	4.08	63.	16.	5.	1.83
+	HYDROGRAPH AT BD60gS	114.	4.83	21.	5.	2.	1.83
+	ROUTED TO R60gS	106.	5.17	21.	5.	2.	1.83
+	2 COMBINED AT C60gS	230.	5.17	84.	22.	7.	1.83
+	3 COMBINED AT C60i	544.	4.83	186.	47.	16.	3.02
+	DIVERSION TO D60iP	211.	4.00	112.	29.	10.	3.02
+	HYDROGRAPH AT D60i	333.	4.83	74.	18.	6.	3.02
+	DIVERSION TO D60iS	197.	4.83	44.	11.	4.	3.02
+	HYDROGRAPH AT D60iW	136.	4.83	30.	8.	3.	3.02
+	ROUTED TO R60iW	130.	5.17	30.	8.	3.	3.02
+	HYDROGRAPH AT BD64gP	153.	4.83	68.	18.	6.	3.10
+	ROUTED TO P64gS	153.	4.92	68.	18.	6.	3.10
+	HYDROGRAPH AT BD64gS	81.	5.17	12.	3.	1.	3.10
+	ROUTED TO R64gS	76.	5.42	12.	3.	1.	3.10
+	2 COMBINED AT C64gS	229.	5.42	81.	21.	7.	3.10
+	HYDROGRAPH AT 64i	338.	4.42	80.	20.	7.	.50
+	3 COMBINED AT C64i	450.	4.83	165.	43.	14.	4.79
+	DIVERSION TO D64iP	214.	4.33	111.	29.	10.	4.79
+	HYDROGRAPH AT D64i	236.	4.83	54.	14.	5.	4.79
+	DIVERSION TO D64iS	144.	4.83	33.	8.	3.	4.79
+	HYDROGRAPH AT D64iW	92.	4.83	21.	5.	2.	4.79
+	ROUTED TO R64iW	91.	5.42	21.	5.	2.	4.79
+	HYDROGRAPH AT 68i	199.	4.58	57.	15.	5.	.50

+	HYDROGRAPH AT BD68gP	82.	3.92	58.	16.	5.	4.53
	ROUTED TO P68gS	82.	4.00	58.	16.	5.	4.53
+	HYDROGRAPH AT BD68gS	128.	5.33	30.	7.	2.	4.53
+	ROUTED TO R68gS	119.	5.67	30.	7.	2.	4.53
+	2 COMBINED AT C68gS	201.	5.67	88.	23.	8.	4.53
+	3 COMBINED AT C68i	325.	5.50	142.	37.	12.	6.72
+	HYDROGRAPH AT BD72i	524.	5.25	146.	37.	12.	8.68
+	HYDROGRAPH AT B76iE	213.	5.08	54.	13.	4.	5.92
+	ROUTED TO R76iE	202.	5.42	54.	13.	4.	5.92
+	2 COMBINED AT CC72i	709.	5.33	197.	49.	16.	8.68
+	DIVERSION TO D72iS	496.	5.33	138.	34.	11.	8.68
+	HYDROGRAPH AT D72iE	213.	5.33	59.	15.	5.	8.68
+	ROUTED TO R72iE	208.	5.67	59.	15.	5.	8.68
+	2 COMBINED AT CC68i	475.	5.58	184.	48.	16.	10.87
+	DIVERSION TO D68iP	99.	3.83	78.	22.	7.	10.87
+	HYDROGRAPH AT D68i	376.	5.58	106.	26.	9.	10.87
+	ROUTED TO R68iS	374.	5.67	106.	26.	9.	10.87
+	HYDROGRAPH AT BD68iP	99.	3.83	78.	22.	7.	10.87
+	ROUTED TO P68iS	99.	3.92	78.	22.	7.	10.87
+	2 COMBINED AT C68iS	473.	5.67	184.	48.	16.	10.87
+	HYDROGRAPH AT 36i	248.	4.33	51.	13.	4.	.34
+	DIVERSION TO D36iP	41.	3.92	21.	5.	2.	.34
+	HYDROGRAPH AT D36i	207.	4.33	31.	8.	3.	.34
+	DIVERSION TO D36iS	173.	4.33	26.	6.	2.	.34
+	HYDROGRAPH AT D36iW	34.	4.33	5.	1.	0.	.34
+	ROUTED TO R36iW	32.	4.67	5.	1.	0.	.34
+	HYDROGRAPH AT 40i	72.	4.42	19.	5.	2.	.22
+	ROUTED TO S40i	0.	.00	0.	0.	0.	.22
	2 COMBINED AT						

+	C40i	32.	4.67	5.	1.	0.	.56
DIVERSION TO +	D40iS	23.	4.67	4.	1.	0.	.56
HYDROGRAPH AT +	D40iW	7.	4.67	1.	0.	0.	.56
ROUTED TO +	R40iW	7.	5.08	1.	0.	0.	.56
HYDROGRAPH AT +	44i	130.	4.50	35.	9.	3.	.35
HYDROGRAPH AT +	42i	204.	4.25	29.	7.	2.	.27
ROUTED TO +	R42iW	195.	4.42	29.	7.	2.	.27
3 COMBINED AT +	C44i	245.	4.50	54.	14.	5.	1.18
DIVERSION TO +	D44iP	48.	4.00	25.	7.	2.	1.18
HYDROGRAPH AT +	D44i	197.	4.50	29.	7.	2.	1.18
DIVERSION TO +	D44iS	98.	4.50	14.	4.	1.	1.18
HYDROGRAPH AT +	D44iW	99.	4.50	15.	4.	1.	1.18
ROUTED TO +	R44iW	91.	4.67	15.	4.	1.	1.18
HYDROGRAPH AT +	48i	231.	4.42	50.	13.	4.	.54
2 COMBINED AT	C48i	227.	4.67	51.	13.	4.	1.72
DIVERSION TO +	D48iP	47.	4.08	23.	6.	2.	1.72
HYDROGRAPH AT +	D48i	180.	4.67	28.	7.	2.	1.72
DIVERSION TO +	D48iS	88.	4.67	14.	3.	1.	1.72
HYDROGRAPH AT +	D48iW	92.	4.67	14.	4.	1.	1.72
ROUTED TO +	R48iW	88.	4.83	14.	4.	1.	1.72
HYDROGRAPH AT +	BD48iP	47.	4.08	23.	6.	2.	1.72
ROUTED TO +	P48iW	47.	4.17	23.	6.	2.	1.72
2 COMBINED AT +	C48iW	135.	4.83	37.	9.	3.	1.72
HYDROGRAPH AT +	52g	162.	4.25	23.	6.	2.	.26
ROUTED TO +	R52gS	138.	4.67	23.	6.	2.	.26
HYDROGRAPH AT +	52i	202.	4.33	44.	11.	4.	.31
3 COMBINED AT +	C52i	316.	4.75	87.	22.	7.	2.29
DIVERSION TO +	DB52i	221.	4.75	38.	10.	3.	2.29
HYDROGRAPH AT +	E52i	95.	4.08	49.	13.	4.	2.29

+	HYDROGRAPH AT BDB52i	221.	4.75	38.	10.	3.	2.29
	ROUTED TO S52i	71.	5.50	38.	10.	3.	2.29
+	2 COMBINED AT CC52i	166.	5.50	85.	22.	7.	2.29
+	DIVERSION TO D52iP	95.	4.08	63.	17.	6.	2.29
+	HYDROGRAPH AT D52i	71.	5.50	22.	5.	2.	2.29
+	ROUTED TO R52iS	71.	5.92	22.	5.	2.	2.29
+	HYDROGRAPH AT BD52iP	95.	4.08	63.	17.	6.	2.29
+	ROUTED TO P52iS	95.	4.25	63.	17.	6.	2.29
+	2 COMBINED AT C52iS	166.	5.92	85.	22.	7.	2.29
+	HYDROGRAPH AT 24k	216.	4.25	35.	9.	3.	.19
+	DIVERSION TO D24kS	108.	4.25	18.	4.	1.	.19
+	HYDROGRAPH AT D24kW	108.	4.25	18.	4.	1.	.19
+	ROUTED TO R24kW	97.	4.58	17.	4.	1.	.19
+	HYDROGRAPH AT ARC40	47.	4.00	12.	3.	1.	.10
	ROUTED TO PARC40	46.	4.08	12.	3.	1.	.10
+	HYDROGRAPH AT 28k	317.	4.33	64.	16.	5.	.43
+	3 COMBINED AT C28k	408.	4.42	90.	23.	8.	.72
+	DIVERSION TO D28kP	131.	4.08	55.	14.	5.	.72
+	HYDROGRAPH AT D28k	277.	4.42	35.	9.	3.	.72
+	DIVERSION TO D28kS	117.	4.42	15.	4.	1.	.72
+	HYDROGRAPH AT D28kW	160.	4.42	20.	5.	2.	.72
+	ROUTED TO R28kW	151.	4.67	20.	5.	2.	.72
+	HYDROGRAPH AT 32k	199.	4.50	50.	13.	4.	.51
+	2 COMBINED AT C32k	279.	4.67	61.	16.	5.	1.23
+	DIVERSION TO D32kP	45.	4.00	25.	7.	2.	1.23
+	HYDROGRAPH AT D32k	234.	4.67	36.	9.	3.	1.23
+	DIVERSION TO D32kS	107.	4.67	17.	4.	1.	1.23
	HYDROGRAPH AT D32kW	127.	4.67	20.	5.	2.	1.23
+	ROUTED TO R32kW	116.	4.92	20.	5.	2.	1.23

+	HYDROGRAPH AT 36k	328.	4.42	71.	18.	6.	.51
+	HYDROGRAPH AT BD36iP	41.	3.92	21.	5.	2.	.34
+	ROUTED TO P36iS	41.	5.92	21.	5.	2.	.34
+	HYDROGRAPH AT BD36iS	173.	4.33	26.	6.	2.	.34
+	ROUTED TO R36iS	155.	4.83	26.	6.	2.	.34
+	2 COMBINED AT C36iS	196.	4.83	46.	12.	4.	.34
+	3 COMBINED AT C36k	423.	4.83	113.	29.	10.	2.07
+	DIVERSION TO D36kP	59.	3.83	38.	10.	3.	2.07
+	HYDROGRAPH AT D36k	364.	4.83	75.	19.	6.	2.07
+	DIVERSION TO D36kS	160.	4.83	33.	8.	3.	2.07
+	HYDROGRAPH AT D36kW	204.	4.83	42.	11.	4.	2.07
+	ROUTED TO R36kW	198.	5.00	42.	11.	4.	2.07
+	HYDROGRAPH AT BD40iS	23.	4.67	4.	1.	0.	.56
+	ROUTED TO R40iS	20.	5.33	4.	1.	0.	.56
+	HYDROGRAPH AT 40k	360.	4.42	80.	20.	7.	.50
+	3 COMBINED AT C40k	379.	4.75	105.	27.	9.	2.80
+	DIVERSION TO D40kP	29.	3.67	21.	6.	2.	2.80
+	HYDROGRAPH AT D40k	350.	4.75	84.	21.	7.	2.80
+	DIVERSION TO D40kS	147.	4.75	36.	9.	3.	2.80
+	HYDROGRAPH AT D40kW	202.	4.75	49.	12.	4.	2.80
+	ROUTED TO R40kW	201.	4.92	49.	12.	4.	2.80
+	HYDROGRAPH AT 44k	434.	4.33	93.	24.	8.	.51
+	HYDROGRAPH AT BD44iP	48.	4.00	25.	7.	2.	1.18
+	ROUTED TO P44iS	48.	4.25	25.	7.	2.	1.18
+	HYDROGRAPH AT BD44iS	98.	4.50	14.	4.	1.	1.18
+	ROUTED TO R44iS	88.	4.83	14.	4.	1.	1.18
+	2 COMBINED AT C44iS	136.	4.83	40.	10.	3.	1.18
+	3 COMBINED AT C44k	522.	4.75	154.	39.	13.	3.93
	DIVERSION TO						

+	D44kP	71.	3.75	48.	13.	4.	3.93
HYDROGRAPH AT +	D44k	451.	4.75	106.	27.	9.	3.93
DIVERSION TO +	D44kS	171.	4.75	40.	10.	3.	3.93
HYDROGRAPH AT +	D44kW	279.	4.75	66.	16.	5.	3.93
ROUTED TO +	R44kW	275.	4.92	66.	16.	5.	3.93
HYDROGRAPH AT +	48k	460.	4.42	105.	27.	9.	.50
ROUTED TO +	S48k	461.	4.42	102.	26.	9.	.50
HYDROGRAPH AT +	BD48iS	88.	4.67	14.	3.	1.	1.72
ROUTED TO +	R48iS	76.	5.08	14.	3.	1.	1.72
3 COMBINED AT +	C48k	553.	4.83	156.	39.	13.	4.96
DIVERSION TO +	D48kS	248.	4.83	70.	18.	6.	4.96
HYDROGRAPH AT +	D48kW	305.	4.83	86.	22.	7.	4.96
ROUTED TO +	R48kW	304.	4.92	86.	22.	7.	4.96
HYDROGRAPH AT +	52k	234.	4.42	58.	15.	5.	.29
3 COMBINED AT	C52k	559.	4.92	204.	52.	17.	5.83
DIVERSION TO +	D52kP	201.	4.08	120.	31.	10.	5.83
HYDROGRAPH AT +	D52k	358.	4.92	85.	21.	7.	5.83
DIVERSION TO +	D52kS	161.	4.92	38.	10.	3.	5.83
HYDROGRAPH AT +	D52kW	197.	4.92	46.	12.	4.	5.83
ROUTED TO +	R52kW	195.	5.00	46.	12.	4.	5.83
HYDROGRAPH AT +	BD54iP	68.	4.08	30.	8.	3.	.44
ROUTED TO +	P54iS	68.	4.25	30.	8.	3.	.44
HYDROGRAPH AT +	BD54iS	62.	4.50	8.	2.	1.	.44
ROUTED TO +	R54iS	53.	5.00	8.	2.	1.	.44
2 COMBINED AT +	C54iS	121.	5.00	37.	10.	3.	.44
HYDROGRAPH AT +	54k	208.	4.42	54.	14.	5.	.25
3 COMBINED AT +	C54k	534.	4.92	156.	40.	13.	1.18
DIVERSION TO	D54kP	124.	4.08	67.	17.	6.	1.18
HYDROGRAPH AT +	D54k	410.	4.92	89.	22.	7.	1.18

+	DIVERSION TO	D54kS	227.	4.92	44.	11.	4.	1.18
	HYDROGRAPH AT	D54kW	183.	4.92	44.	11.	4.	1.18
+	ROUTED TO	R54kW	173.	5.42	44.	11.	4.	1.18
+	HYDROGRAPH AT	BD56iP	204.	4.08	96.	25.	8.	1.62
+	ROUTED TO	P56iS	204.	4.17	96.	25.	8.	1.62
+	HYDROGRAPH AT	BD56iS	144.	4.83	26.	7.	2.	1.62
+	ROUTED TO	R56iS	140.	5.08	26.	7.	2.	1.62
+	2 COMBINED AT	C56iS	344.	5.08	122.	31.	10.	1.62
+	HYDROGRAPH AT	56k	423.	4.33	82.	21.	7.	.42
+	3 COMBINED AT	C56k	580.	5.17	224.	57.	19.	2.78
+	HYDROGRAPH AT	BD60iP	211.	4.00	112.	29.	10.	3.02
+	DIVERSION TO	D60iP2	143.	4.00	76.	20.	7.	3.02
+	HYDROGRAPH AT	D60iP1	68.	4.00	36.	9.	3.	3.02
+	ROUTED TO	P60iS1	68.	4.08	36.	9.	3.	3.02
+	HYDROGRAPH AT	B60iP2	143.	4.00	76.	20.	7.	3.02
+	ROUTED TO	P60iS2	143.	4.08	76.	20.	7.	3.02
+	HYDROGRAPH AT	BD60iS	197.	4.83	44.	11.	4.	3.02
+	ROUTED TO	R60iS	192.	5.00	44.	11.	4.	3.02
+	3 COMBINED AT	C60iS	403.	5.00	156.	40.	13.	3.02
+	HYDROGRAPH AT	60k	286.	4.33	58.	15.	5.	.27
+	2 COMBINED AT	C60k	549.	4.67	205.	52.	17.	3.29
+	DIVERSION TO	D60k	414.	4.67	116.	29.	10.	3.29
+	HYDROGRAPH AT	D60kP	135.	3.75	89.	24.	8.	3.29
+	DIVERSION TO	D60kP2	125.	3.75	83.	22.	7.	3.29
+	HYDROGRAPH AT	D60kP1	10.	3.75	7.	2.	1.	3.29
+	ROUTED TO	P60kE	10.	3.92	7.	2.	1.	3.29
+	2 COMBINED AT	CC56k	580.	5.17	228.	58.	19.	4.46
+	DIVERSION TO	D56kP	303.	4.08	160.	42.	14.	4.46
+	HYDROGRAPH AT	D56k	250.	5.17	60.	15.	5.	4.46

	DIVERSION TO						
+		D56kS	108.	5.17	22.	5.	2.	4.46
	HYDROGRAPH AT						
		D56kW	143.	5.17	38.	10.	3.	4.46
	ROUTED TO						
+		R56kW	140.	5.50	38.	10.	3.	4.46
	HYDROGRAPH AT						
+		BD60k	414.	4.67	116.	29.	10.	3.29
	2 COMBINED AT						
+		CC60k	502.	4.92	148.	37.	12.	4.46
	DIVERSION TO						
+		D60kS	348.	4.92	93.	23.	8.	4.46
	HYDROGRAPH AT						
+		D60kW	154.	4.92	55.	14.	5.	4.46
	ROUTED TO						
+		R60kW	152.	5.25	55.	14.	5.	4.46
	HYDROGRAPH AT						
+		64k	246.	4.25	41.	10.	3.	.21
	HYDROGRAPH AT						
+		BD64iS	144.	4.83	33.	8.	3.	4.79
	ROUTED TO						
+		R64iS	143.	5.08	33.	8.	3.	4.79
	3 COMBINED AT						
+		C64k	357.	4.92	115.	29.	10.	6.43
	ROUTED TO						
+		S64k	215.	5.92	87.	23.	8.	6.43
	HYDROGRAPH AT						
+		BD64iP	214.	4.33	111.	29.	10.	4.79
	ROUTED TO						
		P64iS	214.	4.42	111.	29.	10.	4.79
	2 COMBINED AT						
+		CC64k	429.	5.83	190.	52.	17.	6.43
	DIVERSION TO						
+		D64kP	214.	4.42	142.	40.	13.	6.43
	HYDROGRAPH AT						
+		D64k	215.	5.83	48.	12.	4.	6.43
	DIVERSION TO						
+		D64kS	43.	5.83	6.	2.	1.	6.43
	HYDROGRAPH AT						
+		D64kW	172.	5.83	42.	10.	3.	6.43
	ROUTED TO						
+		R64kW	167.	6.08	42.	10.	3.	6.43
	HYDROGRAPH AT						
+		68k	273.	4.33	45.	11.	4.	.20
	3 COMBINED AT						
+		C68k	601.	5.83	247.	64.	21.	12.71
	DIVERSION TO						
+		D68kP	114.	3.83	92.	25.	8.	12.71
	HYDROGRAPH AT						
+		D68k	487.	5.83	155.	39.	13.	12.71
	DIVERSION TO						
+		D68kS	333.	5.83	93.	23.	8.	12.71
	HYDROGRAPH AT						
+		D68kW	154.	5.83	62.	15.	5.	12.71
	ROUTED TO						
		R68kW	150.	6.17	62.	15.	5.	12.71
	HYDROGRAPH AT						

+		72k	361.	4.33	65.	16.	5.	.28
	ROUTED TO							
+		S72k	345.	4.42	53.	13.	4.	.28
	HYDROGRAPH AT							
+		B72iP1	226.	4.08	170.	49.	16.	8.68
	ROUTED TO							
+		P72iS	226.	4.17	170.	49.	16.	8.68
	HYDROGRAPH AT							
+		BD72iS	496.	5.33	138.	34.	11.	8.68
	ROUTED TO							
+		R72iS	491.	5.50	138.	34.	11.	8.68
	2 COMBINED AT							
+		C72iS	717.	5.50	307.	83.	28.	8.68
	3 COMBINED AT							
+		C72k	871.	5.42	395.	105.	35.	12.99
	2 COMBINED AT							
+		CC72k	903.	5.42	426.	117.	39.	12.99
	DIVERSION TO							
+		D72kP	281.	4.25	224.	67.	22.	12.99
	HYDROGRAPH AT							
+		D72k	622.	5.42	203.	51.	17.	12.99
	DIVERSION TO							
+		D72kS	447.	5.42	135.	34.	11.	12.99
	HYDROGRAPH AT							
+		D72kW	175.	5.42	67.	17.	6.	12.99
	ROUTED TO							
+		R72kW	173.	5.83	67.	17.	6.	12.99
	HYDROGRAPH AT							
+		B76k1	609.	5.08	205.	51.	17.	5.74
	2 COMBINED AT							
+		CC76k	660.	5.25	252.	63.	21.	13.31
	DIVERSION TO							
+		D76kP	43.	3.67	35.	9.	3.	13.31
	HYDROGRAPH AT							
+		D76k	617.	5.25	217.	54.	18.	13.31
	DIVERSION TO							
+		D76kS	476.	5.25	158.	39.	13.	13.31
	HYDROGRAPH AT							
+		D76kW	141.	5.25	60.	15.	5.	13.31
	ROUTED TO							
+		R76kW	136.	5.92	59.	15.	5.	13.31
	HYDROGRAPH AT							
+		80k	547.	4.33	102.	26.	9.	.43
	HYDROGRAPH AT							
+		BD80i	1240.	5.25	424.	106.	35.	3.25
	ROUTED TO							
+		R80iS	1230.	5.33	424.	106.	35.	3.25
	HYDROGRAPH AT							
+		B80kP1	28.	3.92	21.	6.	2.	9.18
	3 COMBINED AT							
+		C80k	1392.	5.25	530.	135.	45.	3.68
	DIVERSION TO							
+		D80kP	63.	3.67	59.	17.	6.	3.68
	HYDROGRAPH AT							
+		D80k	1329.	5.25	471.	118.	39.	3.68
	2 COMBINED AT							
+		CC80k	1409.	5.33	525.	131.	44.	4.68

+	DIVERSION TO	D80kS	652.	5.33	197.	49.	16.	4.68
	HYDROGRAPH AT	D80kW	756.	5.33	327.	82.	27.	4.68
+	ROUTED TO	R80kW	752.	5.42	327.	82.	27.	4.68
+	HYDROGRAPH AT	84k	252.	4.50	75.	19.	6.	.31
+	HYDROGRAPH AT	BD84iS	8.	7.42	4.	1.	0.	1.11
+	ROUTED TO	R84iS	7.	8.67	4.	1.	0.	1.11
+	3 COMBINED AT	C84k	887.	5.33	392.	100.	33.	4.99
+	ROUTED TO	R84kS	883.	5.50	391.	100.	33.	4.99
+	HYDROGRAPH AT	84m	216.	4.42	53.	13.	4.	.21
+	2 COMBINED AT	C84m	965.	5.42	437.	112.	37.	5.20
+	HYDROGRAPH AT	I17	435.	4.25	98.	25.	8.	.29
+	DIVERSION TO	D84mP	249.	4.00	82.	21.	7.	.29
+	HYDROGRAPH AT	D84m	186.	4.25	15.	4.	1.	.29
+	2 COMBINED AT	CC84m	965.	5.42	443.	113.	38.	5.49
	DIVERSION TO	D84mS	369.	5.42	169.	43.	14.	5.49
+	HYDROGRAPH AT	D84mE	591.	5.42	272.	70.	23.	5.49
+	ROUTED TO	R84mE	588.	5.58	271.	70.	23.	5.49
+	HYDROGRAPH AT	80m	692.	4.33	129.	32.	11.	.54
+	HYDROGRAPH AT	BD80kS	652.	5.33	197.	49.	16.	4.68
+	ROUTED TO	R80kS	632.	5.58	197.	49.	16.	4.68
+	3 COMBINED AT	C80m	1319.	5.50	568.	146.	49.	6.03
+	DIVERSION TO	D80mS	760.	5.50	328.	84.	28.	6.03
+	HYDROGRAPH AT	D80mE	559.	5.50	241.	62.	21.	6.03
+	ROUTED TO	R80mE	556.	5.67	240.	62.	21.	6.03
+	HYDROGRAPH AT	761	346.	4.17	42.	10.	3.	.18
+	HYDROGRAPH AT	BD80kP	63.	3.67	59.	17.	6.	3.68
+	HYDROGRAPH AT	BD76kP	43.	3.67	35.	9.	3.	13.31
	2 COMBINED AT	C76kP	106.	3.67	94.	26.	9.	17.25
+	ROUTED TO	P76kS	106.	3.75	94.	26.	9.	17.25

+	HYDROGRAPH AT	BD76kS	476.	5.25	158.	39.	13.	13.31
+	ROUTED TO	R76kS	473.	5.33	158.	39.	13.	13.31
+	2 COMBINED AT	C76kS	671.	5.25	281.	73.	24.	4.68
+	2 COMBINED AT	C76l	698.	5.25	317.	82.	27.	4.86
+	DIVERSION TO	D76lP	156.	3.75	130.	35.	12.	4.86
+	HYDROGRAPH AT	D76l	542.	5.25	187.	47.	16.	4.86
+	ROUTED TO	R76lS	529.	5.42	187.	47.	16.	4.86
+	HYDROGRAPH AT	BD76lP	156.	3.75	130.	35.	12.	4.86
+	ROUTED TO	P76lS	156.	3.92	130.	36.	12.	4.86
+	2 COMBINED AT	C76lS	685.	5.42	317.	82.	27.	4.86
+	HYDROGRAPH AT	76m	625.	4.33	115.	29.	10.	.49
+	ROUTED TO	S76m	620.	4.33	114.	29.	10.	.49
+	3 COMBINED AT	C76m	1353.	5.33	643.	167.	56.	6.71
+	DIVERSION TO	D76m	1162.	5.33	468.	117.	39.	6.71
+	HYDROGRAPH AT	D76mP	191.	3.75	174.	50.	17.	6.71
+	DIVERSION TO	D76mP2	32.	3.75	29.	8.	3.	6.71
+	HYDROGRAPH AT	D76mP1	159.	3.75	145.	41.	14.	6.71
+	HYDROGRAPH AT	72l	166.	4.50	41.	10.	3.	.22
+	HYDROGRAPH AT	BD72kP	281.	4.25	224.	67.	22.	12.99
+	ROUTED TO	P72kS	281.	4.33	224.	67.	22.	12.99
+	HYDROGRAPH AT	BD72kS	447.	5.42	135.	34.	11.	12.99
+	ROUTED TO	R72kS	444.	5.58	135.	34.	11.	12.99
+	2 COMBINED AT	C72kS	725.	5.58	359.	100.	33.	12.99
+	2 COMBINED AT	C72l	788.	5.42	392.	109.	36.	13.21
+	DIVERSION TO	D72lP	305.	4.17	243.	72.	24.	13.21
+	HYDROGRAPH AT	D72l	483.	5.42	149.	37.	12.	13.21
+	ROUTED TO	R72lS	471.	5.75	149.	37.	12.	13.21
+	HYDROGRAPH AT	BD72lP	305.	4.17	243.	72.	24.	13.21
	ROUTED TO							

+	P721S	305.	4.33	243.	72.	24.	13.21
2 COMBINED AT	C721S	776.	5.75	391.	109.	36.	13.21
HYDROGRAPH AT +	72m	541.	4.42	117.	30.	10.	.47
3 COMBINED AT +	C72m	1059.	5.50	628.	176.	59.	13.67
HYDROGRAPH AT +	601	248.	4.33	49.	12.	4.	.23
HYDROGRAPH AT +	B60kP2	125.	3.75	83.	22.	7.	3.29
ROUTED TO +	P60kS	125.	3.83	83.	22.	7.	3.29
HYDROGRAPH AT +	BD60kS	348.	4.92	93.	23.	8.	4.46
ROUTED TO +	R60kS	347.	5.00	93.	23.	8.	4.46
2 COMBINED AT +	C60kS	472.	5.00	177.	45.	15.	4.46
2 COMBINED AT +	C601	585.	4.83	216.	55.	18.	4.69
DIVERSION TO +	D601P	93.	3.67	71.	19.	6.	4.69
HYDROGRAPH AT +	D601	492.	4.83	145.	36.	12.	4.69
DIVERSION TO +	D601S	358.	4.83	105.	26.	9.	4.69
HYDROGRAPH AT	D601W	134.	4.83	39.	10.	3.	4.69
ROUTED TO +	R601W	131.	5.17	39.	10.	3.	4.69
HYDROGRAPH AT +	641	189.	4.58	49.	12.	4.	.29
HYDROGRAPH AT +	BD64kS	43.	5.83	6.	2.	1.	6.43
ROUTED TO +	R64kS	39.	6.08	6.	2.	1.	6.43
3 COMBINED AT +	C641	244.	4.92	83.	21.	7.	6.96
ROUTED TO +	S641	71.	6.42	14.	3.	1.	6.96
HYDROGRAPH AT +	BD64kP	214.	4.42	142.	40.	13.	6.43
ROUTED TO +	P64kS	214.	4.50	142.	40.	13.	6.43
2 COMBINED AT +	CC641	285.	6.42	155.	43.	14.	6.96
DIVERSION TO +	D641P	257.	6.17	152.	43.	14.	6.96
HYDROGRAPH AT +	D641	28.	6.42	2.	1.	0.	6.96
DIVERSION TO +	D641S	24.	6.42	2.	1.	0.	6.96
HYDROGRAPH AT	D641W	4.	6.42	0.	0.	0.	6.96
ROUTED TO +	R641W	1.	7.58	0.	0.	0.	6.96

+	HYDROGRAPH AT 68l	312.	4.42	74.	19.	6.	.32
+	HYDROGRAPH AT BD68kP	114.	3.83	92.	25.	8.	12.71
+	ROUTED TO P68kS	114.	3.92	92.	25.	8.	12.71
+	HYDROGRAPH AT BD68kS	333.	5.83	93.	23.	8.	12.71
+	ROUTED TO R68kS	329.	5.92	93.	23.	8.	12.71
+	2 COMBINED AT C68kS	443.	5.92	185.	49.	16.	12.71
+	3 COMBINED AT C68l	505.	5.83	246.	64.	21.	13.56
+	DIVERSION TO D68lP	114.	3.75	96.	27.	9.	13.56
+	HYDROGRAPH AT D68l	391.	5.83	150.	37.	12.	13.56
+	ROUTED TO R68lS	380.	6.17	150.	37.	12.	13.56
+	HYDROGRAPH AT BD68lP	114.	3.75	96.	27.	9.	13.56
+	ROUTED TO P68lS	114.	3.92	96.	27.	9.	13.56
+	2 COMBINED AT C68lS	494.	6.17	244.	64.	21.	13.56
+	HYDROGRAPH AT 24m	272.	4.42	63.	16.	5.	.50
+	ROUTED TO S24m	272.	4.42	63.	16.	5.	.50
+	HYDROGRAPH AT BD24kS	108.	4.25	18.	4.	1.	.19
+	ROUTED TO R24kS	95.	4.67	17.	4.	1.	.19
+	2 COMBINED AT C24m	331.	4.58	77.	19.	6.	.69
+	DIVERSION TO D24mS	142.	4.58	33.	8.	3.	.69
+	HYDROGRAPH AT D24mW	189.	4.58	44.	11.	4.	.69
+	ROUTED TO R24mW	181.	4.83	44.	11.	4.	.69
+	HYDROGRAPH AT 28m	217.	4.50	54.	14.	5.	.51
+	HYDROGRAPH AT BD28kP	131.	4.08	55.	14.	5.	.72
+	ROUTED TO P28kS	131.	4.25	55.	14.	5.	.72
+	HYDROGRAPH AT BD28kS	117.	4.42	15.	4.	1.	.72
+	ROUTED TO R28kS	108.	4.75	15.	4.	1.	.72
+	2 COMBINED AT C28kS	239.	4.75	70.	18.	6.	.72
+	3 COMBINED AT C28m	504.	4.83	150.	39.	13.	1.73
+	DIVERSION TO D28mP	211.	4.08	103.	27.	9.	1.73

+	HYDROGRAPH AT	D28m	293.	4.83	47.	12.	4.	1.73
	DIVERSION TO	D28mS	130.	4.83	21.	5.	2.	1.73
+	HYDROGRAPH AT	D28mW	163.	4.83	26.	7.	2.	1.73
+	ROUTED TO	R28mW	156.	5.00	26.	7.	2.	1.73
+	HYDROGRAPH AT	32m	362.	4.42	79.	20.	7.	.51
+	ROUTED TO	S32m	363.	4.42	79.	20.	7.	.51
+	HYDROGRAPH AT	BD32kP	45.	4.00	25.	7.	2.	1.23
+	ROUTED TO	P32kS	45.	4.17	25.	7.	2.	1.23
+	HYDROGRAPH AT	BD32kS	107.	4.67	17.	4.	1.	1.23
+	ROUTED TO	R32kS	96.	5.00	17.	4.	1.	1.23
+	2 COMBINED AT	C32kS	141.	5.00	42.	11.	4.	1.23
+	3 COMBINED AT	C32m	426.	5.00	125.	32.	11.	2.75
+	DIVERSION TO	D32mP	66.	3.83	44.	11.	4.	2.75
+	HYDROGRAPH AT	D32m	360.	5.00	81.	20.	7.	2.75
+	DIVERSION TO	D32mS	155.	5.00	35.	9.	3.	2.75
+	HYDROGRAPH AT	D32mW	205.	5.00	46.	12.	4.	2.75
+	ROUTED TO	R32mW	198.	5.17	46.	12.	4.	2.75
+	HYDROGRAPH AT	36m	282.	4.42	68.	17.	6.	.51
+	HYDROGRAPH AT	BD36kP	59.	3.83	38.	10.	3.	2.07
+	ROUTED TO	P36kS	59.	4.00	38.	10.	3.	2.07
+	HYDROGRAPH AT	BD36kS	160.	4.83	33.	8.	3.	2.07
+	ROUTED TO	R36kS	150.	5.08	33.	8.	3.	2.07
+	2 COMBINED AT	C36kS	209.	5.08	71.	18.	6.	2.07
+	3 COMBINED AT	C36m	489.	5.08	159.	41.	14.	4.11
+	DIVERSION TO	D36mP	114.	4.00	73.	19.	6.	4.11
+	HYDROGRAPH AT	D36m	375.	5.08	86.	22.	7.	4.11
	DIVERSION TO	D36mS	180.	5.08	42.	10.	3.	4.11
+	HYDROGRAPH AT	D36mW	195.	5.08	45.	11.	4.	4.11
	ROUTED TO							

+	R36mW	190.	5.25	45.	11.	4.	4.11
+ HYDROGRAPH AT	40m	458.	4.33	94.	24.	8.	.51
+ HYDROGRAPH AT	BD40kP	29.	3.67	21.	6.	2.	2.80
+ ROUTED TO	P40kS	29.	3.92	21.	6.	2.	2.80
+ HYDROGRAPH AT	BD40kS	147.	4.75	36.	9.	3.	2.80
+ ROUTED TO	R40kS	145.	5.08	36.	9.	3.	2.80
+ 2 COMBINED AT	C40kS	174.	5.08	56.	14.	5.	2.80
+ 3 COMBINED AT	C40m	519.	4.92	168.	43.	14.	5.35
+ DIVERSION TO	D40mP	66.	3.75	49.	13.	4.	5.35
+ HYDROGRAPH AT	D40m	453.	4.92	120.	30.	10.	5.35
+ DIVERSION TO	D40mS	195.	4.92	51.	13.	4.	5.35
+ HYDROGRAPH AT	D40mW	258.	4.92	68.	17.	6.	5.35
+ ROUTED TO	R40mW	255.	5.08	68.	17.	6.	5.35
+ HYDROGRAPH AT	44m	347.	4.42	78.	20.	7.	.50
+ HYDROGRAPH AT	BD44kP	71.	3.75	48.	13.	4.	3.93
+ ROUTED TO	P44kS	71.	3.92	48.	13.	4.	3.93
+ HYDROGRAPH AT	BD44kS	171.	4.75	40.	10.	3.	3.93
+ ROUTED TO	R44kS	165.	5.00	40.	10.	3.	3.93
+ 2 COMBINED AT	C44kS	236.	5.00	88.	23.	8.	3.93
+ 3 COMBINED AT	C44m	609.	4.92	206.	53.	18.	6.98
+ DIVERSION TO	D44mP	124.	3.92	85.	23.	8.	6.98
+ HYDROGRAPH AT	D44m	485.	4.92	121.	30.	10.	6.98
+ DIVERSION TO	D44mS	206.	4.92	51.	13.	4.	6.98
+ HYDROGRAPH AT	D44mW	280.	4.92	70.	17.	6.	6.98
+ ROUTED TO	R44mW	269.	5.17	70.	17.	6.	6.98
+ HYDROGRAPH AT	24o	380.	4.42	87.	22.	7.	.50
+ HYDROGRAPH AT	BD24mS	142.	4.58	33.	8.	3.	.69
+ ROUTED TO	R24mS	134.	4.92	33.	8.	3.	.69
+ 2 COMBINED AT	C24o	390.	4.67	110.	28.	9.	1.20

+	DIVERSION TO	D24oP	48.	3.83	34.	9.	3.	1.20
	HYDROGRAPH AT	D24o	342.	4.67	76.	19.	6.	1.20
+	DIVERSION TO	D24oS	129.	4.67	29.	7.	2.	1.20
+	HYDROGRAPH AT	D24oW	212.	4.67	47.	12.	4.	1.20
+	ROUTED TO	R24oW	208.	4.83	47.	12.	4.	1.20
+	HYDROGRAPH AT	28o	247.	4.50	62.	16.	5.	.50
+	HYDROGRAPH AT	BD28mP	211.	4.08	103.	27.	9.	1.73
+	ROUTED TO	P28mS	211.	4.25	103.	27.	9.	1.73
+	HYDROGRAPH AT	BD28mS	130.	4.83	21.	5.	2.	1.73
+	ROUTED TO	R28mS	121.	5.08	21.	5.	2.	1.73
+	2 COMBINED AT	C28mS	332.	5.08	124.	32.	11.	1.73
+	3 COMBINED AT	C28o	612.	5.00	210.	54.	18.	2.73
+	DIVERSION TO	D28oP	367.	4.33	171.	44.	15.	2.73
+	HYDROGRAPH AT	D28o	245.	5.00	39.	10.	3.	2.73
	DIVERSION TO	D28oS	103.	5.00	17.	4.	1.	2.73
+	HYDROGRAPH AT	D28oW	142.	5.00	23.	6.	2.	2.73
+	ROUTED TO	R28oW	135.	5.17	23.	6.	2.	2.73
+	HYDROGRAPH AT	32o	355.	4.42	80.	20.	7.	.50
+	HYDROGRAPH AT	BD32mS	155.	5.00	35.	9.	3.	2.75
+	ROUTED TO	R32mS	147.	5.25	35.	9.	3.	2.75
+	HYDROGRAPH AT	BD32mP	66.	3.83	44.	11.	4.	2.75
+	ROUTED TO	P32mS	66.	4.00	44.	11.	4.	2.75
+	2 COMBINED AT	C32mS	213.	5.25	78.	20.	7.	2.75
+	3 COMBINED AT	C32o	451.	5.08	156.	40.	13.	4.25
+	DIVERSION TO	D32oP	160.	4.17	95.	24.	8.	4.25
+	HYDROGRAPH AT	D32o	291.	5.08	61.	15.	5.	4.25
+	DIVERSION TO	D32oS	128.	5.08	27.	7.	2.	4.25
	HYDROGRAPH AT	D32oW	162.	5.08	34.	9.	3.	4.25
+	ROUTED TO	R32oW	160.	5.25	34.	9.	3.	4.25

+	HYDROGRAPH AT 36o	437.	4.42	92.	23.	8.	.50
+	HYDROGRAPH AT BD36mP	114.	4.00	73.	19.	6.	4.11
+	ROUTED TO P36mS	114.	4.17	73.	19.	6.	4.11
+	HYDROGRAPH AT BD36mS	180.	5.08	42.	10.	3.	4.11
+	ROUTED TO R36mS	174.	5.33	42.	10.	3.	4.11
+	2 COMBINED AT C36mS	288.	5.33	114.	30.	10.	4.11
+	3 COMBINED AT C36o	551.	5.08	211.	54.	18.	6.12
+	DIVERSION TO D36oP	139.	3.92	95.	25.	8.	6.12
+	HYDROGRAPH AT D36o	412.	5.08	116.	29.	10.	6.12
+	DIVERSION TO D36oS	177.	5.08	50.	12.	4.	6.12
+	HYDROGRAPH AT D36oW	235.	5.08	66.	16.	5.	6.12
+	ROUTED TO R36oW	233.	5.25	66.	16.	5.	6.12
+	HYDROGRAPH AT B40mP	66.	3.75	49.	13.	4.	5.35
+	ROUTED TO P40mS	66.	3.92	49.	13.	4.	5.35
+	HYDROGRAPH AT BD40mS	195.	4.92	51.	13.	4.	5.35
+	ROUTED TO R40mS	190.	5.25	51.	13.	4.	5.35
+	2 COMBINED AT C40mS	256.	5.25	100.	26.	9.	5.35
+	HYDROGRAPH AT 40o	360.	4.42	74.	19.	6.	.47
+	3 COMBINED AT C40o	575.	5.08	209.	54.	18.	7.82
+	DIVERSION TO D40oP	70.	3.67	57.	16.	5.	7.82
+	HYDROGRAPH AT D40o	505.	5.08	152.	38.	13.	7.82
+	DIVERSION TO D40oS	259.	5.08	67.	17.	6.	7.82
+	HYDROGRAPH AT D40oW	246.	5.08	84.	21.	7.	7.82
+	ROUTED TO R40oW	242.	5.42	84.	21.	7.	7.82
+	HYDROGRAPH AT 44o	156.	4.33	31.	8.	3.	.23
+	HYDROGRAPH AT BD44mP	124.	3.92	85.	23.	8.	6.98
+	ROUTED TO P44mS	124.	4.00	85.	23.	8.	6.98
+	HYDROGRAPH AT BD44mS	206.	4.92	51.	13.	4.	6.98
	ROUTED TO						

+	R44mS	203.	5.08	51.	13.	4.	6.98
2 COMBINED AT	C44mS	327.	5.08	136.	35.	12.	6.98
3 COMBINED AT +	C44o	574.	5.17	232.	60.	20.	9.68
DIVERSION TO +	D44oP	124.	3.83	95.	26.	9.	9.68
HYDROGRAPH AT +	D44o	450.	5.17	137.	34.	11.	9.68
DIVERSION TO +	D44oS	312.	5.17	89.	22.	7.	9.68
HYDROGRAPH AT +	D44oW	137.	5.17	48.	12.	4.	9.68
ROUTED TO +	R44oW	134.	5.75	48.	12.	4.	9.68
2 COMBINED AT +	C44mW	352.	5.42	112.	28.	9.	9.68
HYDROGRAPH AT +	48m	407.	4.33	82.	21.	7.	.48
HYDROGRAPH AT +	BD48kS	248.	4.83	70.	18.	6.	4.96
ROUTED TO +	R48kS	242.	5.08	70.	18.	6.	4.96
3 COMBINED AT +	C48m	644.	5.17	224.	57.	19.	11.19
HYDROGRAPH AT +	BD52kP	201.	4.08	120.	31.	10.	5.83
ROUTED TO	P52kS	201.	4.25	120.	31.	10.	5.83
HYDROGRAPH AT +	BD52kS	161.	4.92	38.	10.	3.	5.83
ROUTED TO +	R52kS	159.	5.00	38.	10.	3.	5.83
2 COMBINED AT +	C52kS	360.	5.00	158.	41.	14.	5.83
HYDROGRAPH AT +	52m	227.	4.25	32.	8.	3.	.18
2 COMBINED AT +	C52m	422.	4.75	181.	47.	16.	6.01
2 COMBINED AT +	CC52m	992.	5.08	386.	99.	33.	12.24
DIVERSION TO +	D52mP	364.	4.08	225.	59.	20.	12.24
HYDROGRAPH AT +	D52m	628.	5.08	161.	40.	13.	12.24
DIVERSION TO +	D52mS	566.	5.08	145.	36.	12.	12.24
HYDROGRAPH AT +	D52mW	63.	5.08	16.	4.	1.	12.24
ROUTED TO +	R52mW	62.	5.25	16.	4.	1.	12.24
HYDROGRAPH AT +	54m	360.	4.25	55.	14.	5.	.27
HYDROGRAPH AT	BD54kP	124.	4.08	67.	17.	6.	1.18
ROUTED TO +	P54kS	124.	4.25	67.	17.	6.	1.18

+	HYDROGRAPH AT	BD54kS	227.	4.92	44.	11.	4.	1.18
.	ROUTED TO	R54kS	221.	5.08	44.	11.	4.	1.18
+	2 COMBINED AT	C54kS	345.	5.08	111.	28.	9.	1.18
+	3 COMBINED AT	C54m	526.	4.83	184.	47.	16.	1.66
+	DIVERSION TO	D54mP	124.	3.92	76.	20.	7.	1.66
+	HYDROGRAPH AT	D54m	402.	4.83	108.	27.	9.	1.66
+	DIVERSION TO	D54mS	161.	4.83	43.	11.	4.	1.66
+	HYDROGRAPH AT	D54mW	241.	4.83	65.	16.	5.	1.66
+	ROUTED TO	R54mW	237.	5.00	65.	16.	5.	1.66
+	HYDROGRAPH AT	56m	371.	4.50	100.	26.	9.	.58
+	HYDROGRAPH AT	BD56kP	303.	4.08	160.	42.	14.	4.46
+	ROUTED TO	P56kS	303.	4.25	160.	42.	14.	4.46
+	HYDROGRAPH AT	BD56kS	108.	5.17	22.	5.	2.	4.46
+	ROUTED TO	R56kS	101.	5.50	22.	5.	2.	4.46
+	2 COMBINED AT	C56kS	404.	5.50	182.	47.	16.	4.46
+	3 COMBINED AT	C56m	774.	5.00	307.	79.	26.	5.50
+	DIVERSION TO	D56mP	433.	4.25	230.	60.	20.	5.50
+	HYDROGRAPH AT	D56m	341.	5.00	77.	19.	6.	5.50
+	DIVERSION TO	D56mS	133.	5.00	30.	7.	2.	5.50
+	HYDROGRAPH AT	D56mW	209.	5.00	47.	12.	4.	5.50
+	ROUTED TO	R56mW	204.	5.17	47.	12.	4.	5.50
+	HYDROGRAPH AT	60m	343.	4.50	83.	21.	7.	.50
+	HYDROGRAPH AT	BD601P	93.	3.67	71.	19.	6.	4.69
+	ROUTED TO	P601S	93.	3.83	71.	19.	6.	4.69
+	HYDROGRAPH AT	BD601S	358.	4.83	105.	26.	9.	4.69
+	ROUTED TO	R601S	351.	5.17	105.	26.	9.	4.69
+	2 COMBINED AT	C601S	444.	5.17	176.	45.	15.	4.69
+	3 COMBINED AT	C60m	793.	5.08	279.	72.	24.	6.24
+	DIVERSION TO	D60mP	124.	3.92	96.	26.	9.	6.24

+	HYDROGRAPH AT	D60m	669.	5.08	183.	46.	15.	6.24
	DIVERSION TO	D60mS	348.	5.08	95.	24.	8.	6.24
+	HYDROGRAPH AT	D60mW	321.	5.08	88.	22.	7.	6.24
+	ROUTED TO	R60mW	312.	5.42	88.	22.	7.	6.24
+	HYDROGRAPH AT	64m	552.	4.42	136.	35.	12.	.50
+	HYDROGRAPH AT	BD641P	257.	6.17	152.	43.	14.	6.96
+	ROUTED TO	P641S	257.	6.33	152.	43.	14.	6.96
+	HYDROGRAPH AT	BD641S	24.	6.42	2.	1.	0.	6.96
+	ROUTED TO	R641S	15.	7.17	2.	1.	0.	6.96
+	2 COMBINED AT	C641S	257.	6.75	154.	43.	14.	6.96
+	HYDROGRAPH AT	68m	628.	4.42	158.	40.	13.	.55
+	DIVERSION TO	D68m	594.	4.42	128.	32.	11.	.55
+	HYDROGRAPH AT	D68mP2	34.	3.42	29.	8.	3.	.55
+	4 COMBINED AT	C64m	797.	5.08	373.	102.	34.	9.55
	DIVERSION TO	D64mP	399.	4.17	269.	76.	25.	9.55
+	HYDROGRAPH AT	D64m	398.	5.08	104.	26.	9.	9.55
+	DIVERSION TO	D64mS	246.	5.08	64.	16.	5.	9.55
+	HYDROGRAPH AT	D64mW	152.	5.08	40.	10.	3.	9.55
+	ROUTED TO	R64mW	148.	5.42	40.	10.	3.	9.55
+	HYDROGRAPH AT	BD68m	594.	4.42	128.	32.	11.	.55
+	3 COMBINED AT	C68m	821.	5.00	375.	97.	32.	16.15
+	DIVERSION TO	D68mP	144.	3.67	123.	34.	11.	16.15
+	HYDROGRAPH AT	D68m2	677.	5.00	252.	63.	21.	16.15
+	DIVERSION TO	D68mS	562.	5.00	209.	52.	17.	16.15
+	HYDROGRAPH AT	D68mW	115.	5.00	43.	11.	4.	16.15
+	ROUTED TO	R68mW	112.	5.42	43.	11.	4.	16.15
+	2 COMBINED AT	CC72m	1138.	5.50	657.	183.	61.	17.12
+	DIVERSION TO	D72mP	308.	3.67	289.	91.	30.	17.12
	HYDROGRAPH AT							

+		D72m	830.	5.50	368.	92.	31.	17.12
	ROUTED TO							
+		R72mS	820.	5.92	367.	92.	31.	17.12
	HYDROGRAPH AT							
+		BD72mP	308.	3.67	289.	91.	30.	17.12
	ROUTED TO							
+		P72mS	308.	3.83	289.	91.	30.	17.12
	2 COMBINED AT							
+		C72mS	1128.	5.92	653.	183.	61.	17.12
	HYDROGRAPH AT							
+		BD24oS	129.	4.67	29.	7.	2.	1.20
	ROUTED TO							
+		R24oS	127.	4.83	29.	7.	2.	1.20
	HYDROGRAPH AT							
+		BD28oP	367.	4.33	171.	44.	15.	2.73
	ROUTED TO							
+		P28oS	367.	4.42	171.	44.	15.	2.73
	HYDROGRAPH AT							
+		BD28oS	103.	5.00	17.	4.	1.	2.73
	ROUTED TO							
+		R28oS	98.	5.17	17.	4.	1.	2.73
	2 COMBINED AT							
+		C28oS	465.	5.17	188.	48.	16.	2.73
	2 COMBINED AT							
+		C28p	564.	5.08	212.	54.	18.	2.73
	HYDROGRAPH AT							
+		28p	330.	4.33	64.	16.	5.	.37
	ROUTED TO							
		S28p	329.	4.33	63.	16.	5.	.37
	2 COMBINED AT							
+		CC28p	709.	4.83	261.	67.	22.	3.11
	DIVERSION TO							
+		D28pP	279.	4.08	156.	40.	14.	3.11
	HYDROGRAPH AT							
+		D28p	430.	4.83	106.	26.	9.	3.11
	ROUTED TO							
+		R28pW	426.	4.92	106.	26.	9.	3.11
	HYDROGRAPH AT							
+		32p	188.	4.42	40.	10.	3.	.23
	HYDROGRAPH AT							
+		BD32oS	128.	5.08	27.	7.	2.	4.25
	ROUTED TO							
+		R32oS	127.	5.17	27.	7.	2.	4.25
	2 COMBINED AT							
+		C32p	209.	4.92	57.	14.	5.	4.49
	ROUTED TO							
+		S32p	91.	5.83	48.	12.	4.	4.49
	HYDROGRAPH AT							
+		BD32oP	160.	4.17	95.	24.	8.	4.25
	ROUTED TO							
+		P32oS	160.	4.25	95.	24.	8.	4.25
	3 COMBINED AT							
+		CC32p	622.	5.08	232.	61.	20.	4.86
	DIVERSION TO							
+		D32pS	91.	5.08	32.	8.	3.	4.86
	HYDROGRAPH AT							
+		D32pW	531.	5.08	200.	53.	18.	4.86

+	DIVERSION TO	D32pP	379.	4.67	175.	46.	15.	4.86
	HYDROGRAPH AT	D32p	152.	5.08	25.	6.	2.	4.86
+	ROUTED TO	R32pW	146.	5.25	25.	6.	2.	4.86
+	HYDROGRAPH AT	BD32pP	379.	4.67	175.	46.	15.	4.86
+	ROUTED TO	P32pW	379.	4.75	175.	46.	15.	4.86
+	2 COMBINED AT	C32pW	526.	5.25	200.	53.	18.	4.86
+	HYDROGRAPH AT	28q	451.	4.25	73.	18.	6.	.32
+	ROUTED TO	S28q	450.	4.25	73.	18.	6.	.32
+	HYDROGRAPH AT	BD28pP	279.	4.08	156.	40.	14.	3.11
+	DIVERSION TO	D28pP2	68.	4.08	38.	10.	3.	3.11
+	HYDROGRAPH AT	D28pP1	211.	4.08	118.	30.	10.	3.11
+	ROUTED TO	P28pS	211.	4.17	118.	30.	10.	3.11
+	2 COMBINED AT	C28q	621.	4.25	187.	48.	16.	.82
+	DIVERSION TO	D28qP	340.	4.00	161.	41.	14.	.82
	HYDROGRAPH AT	D28q	281.	4.25	27.	7.	2.	.82
+	DIVERSION TO	D28qS	208.	4.25	19.	5.	2.	.82
+	HYDROGRAPH AT	D28qW	72.	4.25	8.	2.	1.	.82
+	ROUTED TO	R28qW	50.	5.17	8.	2.	1.	.82
+	HYDROGRAPH AT	32q	170.	4.33	32.	8.	3.	.17
+	HYDROGRAPH AT	BD32pS	91.	5.08	32.	8.	3.	4.86
+	3 COMBINED AT	C32q	239.	5.00	78.	20.	7.	.99
+	ROUTED TO	S32q	87.	6.17	67.	18.	6.	.99
+	DIVERSION TO	D32q	55.	6.17	35.	9.	3.	.99
+	HYDROGRAPH AT	D32qP	32.	4.50	31.	9.	3.	.99
+	ROUTED TO	P32qW	32.	4.58	31.	9.	3.	.99
+	2 COMBINED AT	C32pqW	558.	5.25	225.	61.	20.	4.86
+	HYDROGRAPH AT	36p	198.	4.33	34.	9.	3.	.19
	HYDROGRAPH AT	BD36oS	177.	5.08	50.	12.	4.	6.12
+	ROUTED TO	R36oS	177.	5.17	50.	12.	4.	6.12

+	3 COMBINED AT	C36p	742.	5.17	287.	76.	25.	6.91
+	DIVERSION TO	DB36p	129.	5.17	19.	5.	2.	6.91
+	HYDROGRAPH AT	E36p	613.	5.08	268.	72.	24.	6.91
+	HYDROGRAPH AT	BDB36p	129.	5.17	19.	5.	2.	6.91
+	ROUTED TO	S36p	53.	5.75	14.	4.	1.	6.91
+	HYDROGRAPH AT	BD36oP	139.	3.92	95.	25.	8.	6.12
+	ROUTED TO	P36oS	139.	4.00	95.	25.	8.	6.12
+	3 COMBINED AT	CC36p	798.	5.33	373.	100.	33.	6.91
+	DIVERSION TO	D36pP	613.	4.50	330.	90.	30.	6.91
+	HYDROGRAPH AT	D36p	185.	5.33	43.	11.	4.	6.91
+	ROUTED TO	R36pW	181.	5.58	43.	11.	4.	6.91
+	HYDROGRAPH AT	BD36pP	613.	4.50	330.	90.	30.	6.91
+	DIVERSION TO	D36pP2	139.	4.50	75.	20.	7.	6.91
+	HYDROGRAPH AT	D36pP1	474.	4.50	256.	69.	23.	6.91
+	ROUTED TO	P36pW	474.	4.58	256.	69.	23.	6.91
+	2 COMBINED AT	C36pW	655.	5.58	298.	80.	27.	6.91
+	HYDROGRAPH AT	40p	246.	4.33	43.	11.	4.	.22
+	HYDROGRAPH AT	BD40oP	70.	3.67	57.	16.	5.	7.82
+	ROUTED TO	P40oS	70.	3.75	57.	16.	5.	7.82
+	HYDROGRAPH AT	BD40oS	259.	5.08	67.	17.	6.	7.82
+	ROUTED TO	R40oS	257.	5.17	67.	17.	6.	7.82
+	2 COMBINED AT	C40oS	327.	5.17	125.	32.	11.	7.82
+	3 COMBINED AT	C40p	1005.	5.17	446.	119.	40.	8.83
+	DIVERSION TO	D40pP	785.	4.58	403.	108.	36.	8.83
+	HYDROGRAPH AT	D40p	220.	5.17	43.	11.	4.	8.83
+	ROUTED TO	R40pW	218.	5.42	43.	11.	4.	8.83
+	HYDROGRAPH AT	BD40pP	785.	4.58	403.	108.	36.	8.83
+	ROUTED TO	P40pW	785.	4.67	403.	108.	36.	8.83
	2 COMBINED AT							

+	C40pW	1003.	5.42	446.	119.	40.	8.83
HYDROGRAPH AT	44p	399.	4.42	91.	23.	8.	.41
HYDROGRAPH AT +	BD44oP	124.	3.83	95.	26.	9.	9.68
ROUTED TO +	P44oS	124.	7.25	95.	26.	9.	9.68
HYDROGRAPH AT +	BD44oS	312.	5.17	89.	22.	7.	9.68
ROUTED TO +	R44oS	306.	5.42	89.	22.	7.	9.68
2 COMBINED AT +	C44oS	430.	5.42	183.	48.	16.	9.68
3 COMBINED AT +	C44p	1554.	5.25	688.	182.	61.	11.10
DIVERSION TO +	D44pP	1344.	5.00	660.	175.	58.	11.10
HYDROGRAPH AT +	D44p	210.	5.25	28.	7.	2.	11.10
ROUTED TO +	R44pW	186.	5.58	28.	7.	2.	11.10
HYDROGRAPH AT +	BD44pP	1344.	5.00	660.	175.	58.	11.10
DIVERSION TO +	D44pP2	124.	5.00	61.	16.	5.	11.10
HYDROGRAPH AT +	D44pP1	1220.	5.00	599.	158.	53.	11.10
ROUTED TO	P44pW	1220.	5.08	599.	158.	53.	11.10
2 COMBINED AT +	C44pW	1406.	5.58	627.	165.	55.	11.10
HYDROGRAPH AT +	48o	651.	4.42	137.	35.	12.	.68
HYDROGRAPH AT +	BD52mS	566.	5.08	145.	36.	12.	12.24
ROUTED TO +	R52mS	545.	5.42	145.	36.	12.	12.24
HYDROGRAPH AT +	BD52mP	364.	4.08	225.	59.	20.	12.24
ROUTED TO +	P52mS	364.	6.67	225.	59.	20.	12.24
2 COMBINED AT +	C52mS	909.	5.42	369.	95.	32.	12.24
3 COMBINED AT +	C48o	2401.	5.42	1074.	281.	94.	14.34
DIVERSION TO +	DB48o	35.	5.25	4.	1.	0.	14.34
HYDROGRAPH AT +	E48o	2369.	5.42	1070.	280.	93.	14.34
HYDROGRAPH AT +	BDB48o	35.	5.25	4.	1.	0.	14.34
ROUTED TO +	S48o	4.	5.92	3.	1.	0.	14.34
2 COMBINED AT	CC48o	2372.	5.42	1072.	281.	94.	14.34
DIVERSION TO +	D48oPT	2369.	5.42	1071.	281.	94.	14.34

+	HYDROGRAPH AT	D48o	4.	5.92	1.	0.	0.	14.34
+	ROUTED TO	R48oW	4.	6.00	1.	0.	0.	14.34
+	HYDROGRAPH AT	52o	571.	4.42	136.	35.	12.	.64
+	HYDROGRAPH AT	BD54mP	124.	3.92	76.	20.	7.	1.66
+	ROUTED TO	P54mS	124.	4.08	76.	20.	7.	1.66
+	HYDROGRAPH AT	BD54mS	161.	4.83	43.	11.	4.	1.66
+	ROUTED TO	R54mS	155.	5.33	43.	11.	4.	1.66
+	2 COMBINED AT	C54mS	279.	5.33	119.	31.	10.	1.66
+	3 COMBINED AT	C52o	660.	4.75	262.	67.	22.	2.30
+	DIVERSION TO	D52oP	517.	4.33	237.	61.	20.	2.30
+	HYDROGRAPH AT	D52o	143.	4.75	25.	6.	2.	2.30
+	ROUTED TO	R52oW	130.	5.08	25.	6.	2.	2.30
+	HYDROGRAPH AT	BD52oP	517.	4.33	237.	61.	20.	2.30
+	ROUTED TO	P52oW	517.	4.42	237.	61.	20.	2.30
+	2 COMBINED AT	C52oW	647.	5.08	262.	67.	22.	2.30
+	HYDROGRAPH AT	56o	500.	4.50	127.	32.	11.	.64
+	HYDROGRAPH AT	BD56mP	433.	4.25	230.	60.	20.	5.50
+	ROUTED TO	P56mS	433.	4.42	230.	60.	20.	5.50
+	HYDROGRAPH AT	BD56mS	133.	5.00	30.	7.	2.	5.50
+	ROUTED TO	R56mS	124.	5.58	30.	7.	2.	5.50
+	2 COMBINED AT	C56mS	557.	5.58	260.	67.	22.	5.50
+	3 COMBINED AT	C56o	1316.	4.92	583.	151.	50.	6.79
+	DIVERSION TO	D56oP	950.	4.25	494.	128.	43.	6.79
+	HYDROGRAPH AT	D56o	366.	4.92	89.	22.	7.	6.79
+	ROUTED TO	R56oW	363.	5.08	89.	22.	7.	6.79
+	HYDROGRAPH AT	BD56oP	950.	4.25	494.	128.	43.	6.79
+	ROUTED TO	P56oW	950.	4.33	494.	128.	43.	6.79
+	2 COMBINED AT	C56oW	1313.	5.08	583.	151.	50.	6.79
+	HYDROGRAPH AT	60o	386.	4.58	108.	28.	9.	.64

+	HYDROGRAPH AT	BD60mP	124.	3.92	96.	26.	9.	6.24
	ROUTED TO	P60mS	124.	4.17	96.	26.	9.	6.24
+	HYDROGRAPH AT	BD60mS	348.	5.08	95.	24.	8.	6.24
+	ROUTED TO	R60mS	332.	5.58	95.	24.	8.	6.24
+	2 COMBINED AT	C60mS	456.	5.58	189.	50.	17.	6.24
+	3 COMBINED AT	C60o	1861.	5.25	841.	219.	73.	8.16
+	DIVERSION TO	D60oPT	1720.	5.17	823.	214.	71.	8.16
+	HYDROGRAPH AT	D60o	144.	5.33	18.	4.	1.	8.16
+	ROUTED TO	R60oW	139.	5.58	18.	4.	1.	8.16
+	HYDROGRAPH AT	64o	444.	4.58	130.	34.	11.	.65
+	ROUTED TO	S64o	442.	4.67	130.	34.	11.	.65
+	HYDROGRAPH AT	BD64mP	399.	4.17	269.	76.	25.	9.55
+	ROUTED TO	P64mS	399.	4.33	269.	76.	25.	9.55
+	HYDROGRAPH AT	BD64mS	246.	5.08	64.	16.	5.	9.55
+	ROUTED TO	R64mS	234.	5.67	64.	16.	5.	9.55
+	2 COMBINED AT	C64mS	633.	5.67	333.	92.	31.	9.55
+	3 COMBINED AT	C64o	878.	5.42	437.	119.	40.	12.13
+	DIVERSION TO	D64oPT	839.	5.42	434.	118.	39.	12.13
+	HYDROGRAPH AT	D64o	41.	5.50	3.	1.	0.	12.13
+	ROUTED TO	R64oW	32.	5.75	3.	1.	0.	12.13
+	HYDROGRAPH AT	68o	632.	4.50	160.	41.	14.	.69
+	ROUTED TO	S68o	574.	4.75	136.	34.	11.	.69
+	HYDROGRAPH AT	BD68mP	144.	3.67	123.	34.	11.	16.15
+	ROUTED TO	P68mS	144.	3.92	123.	34.	11.	16.15
+	HYDROGRAPH AT	BD68mS	562.	5.00	209.	52.	17.	16.15
+	ROUTED TO	R68mS	544.	5.50	209.	52.	17.	16.15
+	2 COMBINED AT	C68mS	688.	5.50	330.	86.	29.	16.15
+	3 COMBINED AT	C68o	990.	5.33	433.	112.	37.	16.84
	DIVERSION TO							

+	D68oPT	936.	5.33	430.	112.	37.	16.84
HYDROGRAPH AT +	D68o	54.	5.33	3.	1.	0.	16.84
ROUTED TO +	R68oW	35.	5.75	3.	1.	0.	16.84
HYDROGRAPH AT +	72o	661.	4.50	148.	37.	12.	.66
3 COMBINED AT +	C72o	1309.	5.67	775.	214.	71.	17.78
DIVERSION TO +	D72oP	433.	4.00	395.	119.	40.	17.78
HYDROGRAPH AT +	D72o	876.	5.67	380.	95.	32.	17.78
ROUTED TO +	S72o	874.	5.75	380.	95.	32.	17.78
DIVERSION TO +	D72o1	256.	5.75	63.	16.	5.	17.78
HYDROGRAPH AT +	D72oPT	619.	5.75	317.	79.	26.	17.78
ROUTED TO +	PT72oE	619.	5.75	317.	79.	26.	17.78
HYDROGRAPH AT +	B68oPT	936.	5.33	430.	112.	37.	16.84
2 COMBINED AT +	CPT68o	1534.	5.58	737.	189.	63.	18.47
ROUTED TO +	PT68oE	1533.	5.58	737.	189.	63.	18.47
HYDROGRAPH AT +	BD72o1	256.	5.75	63.	16.	5.	17.78
DIVERSION TO +	D72oW	0.	.00	0.	0.	0.	17.78
HYDROGRAPH AT +	D72oE	256.	5.75	63.	16.	5.	17.78
ROUTED TO +	S-I10	78.	6.58	53.	16.	5.	17.78
HYDROGRAPH AT +	B64oPT	839.	5.42	434.	118.	39.	12.13
HYDROGRAPH AT +	B60oPT	1720.	5.17	823.	214.	71.	8.16
ROUTED TO +	PT60oW	1720.	5.25	823.	214.	71.	8.16
4 COMBINED AT +	C-WT	3914.	5.33	1905.	507.	169.	21.04
ROUTED TO +	PT64o	3912.	5.33	1905.	507.	169.	21.04
DIVERSION TO +	DPT64o	3912.	5.33	1905.	507.	169.	21.04
HYDROGRAPH AT +	DN_64o	0.	.00	0.	0.	0.	21.04
HYDROGRAPH AT +	36q	377.	4.33	69.	17.	6.	.27
HYDROGRAPH AT +	BD32q	55.	6.17	35.	9.	3.	.99
ROUTED TO +	R32qS	54.	6.42	35.	9.	3.	.99
HYDROGRAPH AT +	B36pP2	139.	4.50	75.	20.	7.	6.91

+	ROUTED TO	P36pS	139.	4.67	75.	20.	7.	6.91
	3 COMBINED AT	C36q	450.	4.42	177.	47.	16.	1.56
+	DIVERSION TO	D36qP	295.	4.08	163.	44.	15.	1.56
+	HYDROGRAPH AT	D36q	155.	4.42	15.	4.	1.	1.56
+	DIVERSION TO	D36qS	66.	4.42	6.	2.	1.	1.56
+	HYDROGRAPH AT	D36qW	88.	4.42	8.	2.	1.	1.56
+	ROUTED TO	R36qW	70.	4.75	8.	2.	1.	1.56
+	HYDROGRAPH AT	40q	469.	4.33	90.	23.	8.	.35
+	2 COMBINED AT	C40q	404.	4.58	95.	24.	8.	1.91
+	DIVERSION TO	D40qP	32.	3.67	20.	5.	2.	1.91
+	HYDROGRAPH AT	D40q	372.	4.58	75.	19.	6.	1.91
+	DIVERSION TO	D40qS	227.	4.58	45.	11.	4.	1.91
+	HYDROGRAPH AT	D40qW	146.	4.58	29.	7.	2.	1.91
+	ROUTED TO	R40qW	143.	4.75	29.	7.	2.	1.91
	HYDROGRAPH AT	BD40qP	32.	3.67	20.	5.	2.	1.91
+	ROUTED TO	P40qW	32.	3.75	20.	5.	2.	1.91
+	2 COMBINED AT	C40qW	175.	4.75	49.	13.	4.	1.91
+	HYDROGRAPH AT	44q	470.	4.33	100.	25.	8.	.36
+	HYDROGRAPH AT	B44pP2	124.	5.00	61.	16.	5.	11.10
+	ROUTED TO	P44pS	124.	5.17	61.	16.	5.	11.10
+	3 COMBINED AT	C44q	637.	4.58	210.	54.	18.	2.57
+	DIVERSION TO	D44qP	201.	3.92	124.	33.	11.	2.57
+	HYDROGRAPH AT	D44q	436.	4.58	86.	22.	7.	2.57
+	DIVERSION TO	D44qS	271.	4.58	54.	13.	4.	2.57
+	HYDROGRAPH AT	D44qW	165.	4.58	33.	8.	3.	2.57
+	ROUTED TO	R44qW	159.	4.83	33.	8.	3.	2.57
+	HYDROGRAPH AT	48q	346.	4.42	76.	19.	6.	.30
	2 COMBINED AT	C48q	416.	4.67	105.	27.	9.	2.87
+	DIVERSION TO	D48qPT	416.	4.67	105.	27.	9.	2.87

+	HYDROGRAPH AT	DB48q	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	S48q	0.	.00	0.	0.	0.	2.87
+	DIVERSION TO	D48qS	0.	.00	0.	0.	0.	2.87
+	HYDROGRAPH AT	D48qW	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	R48qW	0.	.00	0.	0.	0.	2.87
+	HYDROGRAPH AT	52q	415.	4.42	99.	25.	8.	.39
+	2 COMBINED AT	C52q	415.	4.42	99.	25.	8.	.39
+	DIVERSION TO	D52qP	191.	4.08	73.	19.	6.	.39
+	HYDROGRAPH AT	D52q	224.	4.42	27.	7.	2.	.39
+	DIVERSION TO	D52qS	114.	4.42	14.	3.	1.	.39
+	HYDROGRAPH AT	D52qW	110.	4.42	13.	3.	1.	.39
+	ROUTED TO	R52qW	102.	4.83	13.	3.	1.	.39
+	HYDROGRAPH AT	56q	359.	4.42	76.	19.	6.	.35
+	2 COMBINED AT	C56q	369.	4.75	87.	22.	7.	.75
+	DIVERSION TO	D56qP	68.	3.92	33.	8.	3.	.75
+	HYDROGRAPH AT	D56q	301.	4.75	54.	13.	4.	.75
+	DIVERSION TO	D56qS	99.	4.75	18.	4.	1.	.75
+	HYDROGRAPH AT	D56qW	202.	4.75	36.	9.	3.	.75
+	ROUTED TO	R56qW	193.	4.92	36.	9.	3.	.75
+	HYDROGRAPH AT	60q	387.	4.33	72.	18.	6.	.35
+	2 COMBINED AT	C60q	437.	4.67	102.	26.	9.	1.10
+	DIVERSION TO	D60qP	281.	4.33	86.	22.	7.	1.10
+	HYDROGRAPH AT	D60q	156.	4.67	16.	4.	1.	1.10
+	DIVERSION TO	D60qS	44.	4.67	4.	1.	0.	1.10
+	HYDROGRAPH AT	D60qW	112.	4.67	11.	3.	1.	1.10
+	ROUTED TO	R60qW	91.	5.00	11.	3.	1.	1.10
+	HYDROGRAPH AT	64q	539.	4.33	105.	27.	9.	.41
+	3 COMBINED AT	C64q	459.	4.42	111.	28.	9.	1.51
	DIVERSION TO							

+		D64qPT	0.	.00	0.	0.	0.	1.51
	HYDROGRAPH AT	D64q	459.	4.42	111.	28.	9.	1.51
	DIVERSION TO							
+		D64qP	68.	3.75	37.	10.	3.	1.51
	HYDROGRAPH AT							
+		D64ql	391.	4.42	73.	18.	6.	1.51
	DIVERSION TO							
+		D64qS	129.	4.42	24.	6.	2.	1.51
	HYDROGRAPH AT							
+		D64qW	262.	4.42	49.	12.	4.	1.51
	ROUTED TO							
+		R64qW	249.	4.75	49.	12.	4.	1.51
	HYDROGRAPH AT							
+		BD64qP	68.	3.75	37.	10.	3.	1.51
	ROUTED TO							
+		P64qW	68.	3.83	37.	10.	3.	1.51
	2 COMBINED AT							
+		C64qW	317.	4.75	86.	22.	7.	1.51
	HYDROGRAPH AT							
+		68q	385.	4.33	71.	18.	6.	.29
	2 COMBINED AT							
+		C68q	584.	4.58	151.	38.	13.	1.80
	DIVERSION TO							
+		D68qP	68.	3.67	45.	12.	4.	1.80
	HYDROGRAPH AT							
+		D68q	516.	4.58	107.	27.	9.	1.80
	DIVERSION TO							
		D68qS	170.	4.58	35.	9.	3.	1.80
	HYDROGRAPH AT							
+		D68qW	346.	4.58	71.	18.	6.	1.80
	ROUTED TO							
+		R68qW	330.	4.83	71.	18.	6.	1.80
	HYDROGRAPH AT							
+		BD68qP	68.	3.67	45.	12.	4.	1.80
	ROUTED TO							
+		P68qW	68.	3.83	45.	12.	4.	1.80
	2 COMBINED AT							
+		C68qW	398.	4.83	116.	29.	10.	1.80
	HYDROGRAPH AT							
+		72q	425.	4.42	84.	21.	7.	.33
	HYDROGRAPH AT							
+		B72oP	433.	4.00	395.	119.	40.	17.78
	ROUTED TO							
+		P72oS	433.	4.08	395.	119.	40.	17.78
	3 COMBINED AT							
+		C72q	1097.	4.67	582.	167.	56.	3.13
	DIVERSION TO							
+		D72qP	662.	4.00	508.	148.	49.	3.13
	HYDROGRAPH AT							
+		D72q	435.	4.67	75.	19.	6.	3.13
	DIVERSION TO							
+		D72qS	144.	4.67	25.	6.	2.	3.13
	HYDROGRAPH AT							
		D72qW	292.	4.67	50.	12.	4.	3.13
	ROUTED TO							
+		R72qW	276.	5.00	50.	12.	4.	3.13

+	HYDROGRAPH AT 80o	850.	4.25	138.	35.	12.	.54
+	HYDROGRAPH AT BD84mP	249.	4.00	82.	21.	7.	.29
+	ROUTED TO P84mS	249.	4.08	82.	21.	7.	.29
+	HYDROGRAPH AT BD84mS	369.	5.42	169.	43.	14.	5.49
+	ROUTED TO R84mS	364.	5.67	168.	43.	14.	5.49
+	2 COMBINED AT C84mS	500.	5.00	245.	66.	22.	5.49
+	HYDROGRAPH AT BD80mS	760.	5.50	328.	84.	28.	6.03
+	ROUTED TO R80mS	758.	5.58	327.	84.	28.	6.03
+	3 COMBINED AT C80o	1431.	4.92	686.	180.	60.	6.58
+	DIVERSION TO DB80o	1182.	4.92	465.	116.	39.	6.58
+	HYDROGRAPH AT E80o	249.	3.75	221.	64.	21.	6.58
+	HYDROGRAPH AT BDB80o	1182.	4.92	465.	116.	39.	6.58
+	ROUTED TO S80o	1179.	5.00	447.	116.	39.	6.58
+	2 COMBINED AT CC80o	1428.	5.00	665.	180.	60.	6.58
+	DIVERSION TO D80oP	249.	3.75	230.	71.	24.	6.58
+	HYDROGRAPH AT D80o	1179.	5.00	435.	109.	36.	6.58
+	ROUTED TO R80oS	1168.	5.17	435.	109.	36.	6.58
+	HYDROGRAPH AT 76o	729.	4.42	170.	43.	14.	.67
+	HYDROGRAPH AT BD76m	1162.	5.33	468.	117.	39.	6.71
+	ROUTED TO R76mS	1156.	5.50	467.	117.	39.	6.71
+	HYDROGRAPH AT B76mP2	32.	3.75	29.	8.	3.	6.71
+	ROUTED TO P76mS	32.	4.08	29.	8.	3.	6.71
+	2 COMBINED AT C76mS	1188.	5.50	496.	125.	42.	6.71
+	HYDROGRAPH AT BD72oW	0.	.00	0.	0.	0.	17.78
+	ROUTED TO R72oW	0.	.00	0.	0.	0.	17.78
+	4 COMBINED AT C76o	2628.	5.17	1058.	268.	89.	7.92
+	DIVERSION TO D76o	2399.	5.17	863.	216.	72.	7.92
+	HYDROGRAPH AT D76oP	229.	3.92	195.	52.	17.	7.92
+	ROUTED TO P76oS	229.	4.08	195.	52.	17.	7.92

+	HYDROGRAPH AT	BD76o	2399.	5.17	863.	216.	72.	7.92
	DIVERSION TO	D76oW	240.	5.17	86.	22.	7.	7.92
+	HYDROGRAPH AT	D76oS	2159.	5.17	777.	194.	65.	7.92
+	ROUTED TO	R76oS	2140.	5.33	776.	194.	65.	7.92
+	2 COMBINED AT	C76oS	2369.	5.33	971.	246.	82.	7.92
+	HYDROGRAPH AT	76q	626.	4.33	111.	28.	9.	.40
+	3 COMBINED AT	C76q	2595.	5.17	1059.	270.	90.	11.45
+	DIVERSION TO	D76qP	229.	3.75	207.	57.	19.	11.45
+	HYDROGRAPH AT	D76q	2366.	5.17	853.	213.	71.	11.45
+	DIVERSION TO	D76qS	1230.	5.17	443.	111.	37.	11.45
+	HYDROGRAPH AT	D76qW	1136.	5.17	409.	102.	34.	11.45
+	ROUTED TO	R76qW	1128.	5.33	409.	102.	34.	11.45
+	HYDROGRAPH AT	80p	644.	4.25	113.	29.	10.	.40
+	HYDROGRAPH AT	BD76oW	240.	5.17	86.	22.	7.	7.92
	ROUTED TO	R76oW	238.	5.33	86.	22.	7.	7.92
+	2 COMBINED AT	C80p	661.	4.75	250.	63.	21.	8.32
+	ROUTED TO	S80p	433.	4.92	178.	46.	16.	8.32
+	HYDROGRAPH AT	BD80oP	249.	3.75	230.	71.	24.	6.58
+	ROUTED TO	P80oS	249.	3.92	230.	71.	24.	6.58
+	2 COMBINED AT	CC80p	682.	4.92	407.	118.	40.	8.32
+	DIVERSION TO	D80pP	249.	3.75	232.	74.	25.	8.32
+	HYDROGRAPH AT	D80p	433.	4.92	175.	44.	15.	8.32
+	ROUTED TO	R80pS	427.	5.25	175.	44.	15.	8.32
+	HYDROGRAPH AT	BD80pP	249.	3.75	232.	74.	25.	8.32
+	ROUTED TO	P80pS	249.	3.92	232.	74.	25.	8.32
+	2 COMBINED AT	C80pS	676.	5.25	406.	118.	40.	8.32
	HYDROGRAPH AT	80q	526.	4.50	131.	33.	11.	.50
+	3 COMBINED AT	C80q	2019.	5.25	913.	247.	83.	12.34
	HYDROGRAPH AT							

+	28s	285.	4.25	41.	10.	3.	.16
+ HYDROGRAPH AT	BD28qP	340.	4.00	161.	41.	14.	.82
+ DIVERSION TO	D28qP2	32.	4.00	15.	4.	1.	.82
+ HYDROGRAPH AT	D28qP1	308.	4.00	145.	38.	13.	.82
+ ROUTED TO	P28qS	308.	4.08	145.	38.	13.	.82
+ HYDROGRAPH AT	BD28qS	208.	4.25	19.	5.	2.	.82
+ ROUTED TO	R28qS	201.	4.33	19.	5.	2.	.82
+ 2 COMBINED AT	C28qS	509.	4.33	164.	42.	14.	.82
+ 2 COMBINED AT	C28s	730.	4.33	202.	52.	17.	.98
+ DIVERSION TO	D28sP	492.	4.08	185.	48.	16.	.98
+ HYDROGRAPH AT	D28s	238.	4.33	17.	4.	1.	.98
+ DIVERSION TO	D28sS	103.	4.33	7.	2.	1.	.98
+ HYDROGRAPH AT	D28sW	135.	4.33	10.	2.	1.	.98
+ ROUTED TO	R28sW	116.	4.58	10.	2.	1.	.98
HYDROGRAPH AT	32s	394.	4.33	88.	22.	7.	.34
+ 2 COMBINED AT	C32s	436.	4.50	94.	24.	8.	1.32
+ ROUTED TO	S32s	399.	4.67	63.	16.	5.	1.32
+ DIVERSION TO	D32sP	48.	4.50	21.	5.	2.	1.32
+ HYDROGRAPH AT	D32s	351.	4.67	42.	11.	4.	1.32
+ ROUTED TO	R32sW	298.	5.00	42.	11.	4.	1.32
+ HYDROGRAPH AT	BD32sP	48.	4.50	21.	5.	2.	1.32
+ ROUTED TO	P32sW	48.	4.67	21.	5.	2.	1.32
+ 2 COMBINED AT	C32sW	346.	5.00	63.	16.	5.	1.32
+ HYDROGRAPH AT	36s	359.	4.33	66.	17.	6.	.24
+ HYDROGRAPH AT	BD36qP	295.	4.08	163.	44.	15.	1.56
+ ROUTED TO	P36qS	295.	4.17	163.	44.	15.	1.56
+ HYDROGRAPH AT	BD36qS	66.	4.42	6.	2.	1.	1.56
+ ROUTED TO	R36qS	57.	4.67	6.	2.	1.	1.56
+ 2 COMBINED AT	C36qS	352.	4.67	169.	45.	15.	1.56

+	3 COMBINED AT	C36s	793.	5.00	286.	75.	25.	2.30
	DIVERSION TO	D36sP	303.	4.00	192.	51.	17.	2.30
+	HYDROGRAPH AT	D36s	490.	5.00	95.	24.	8.	2.30
+	ROUTED TO	R36sW	456.	5.17	95.	24.	8.	2.30
+	HYDROGRAPH AT	40s	365.	4.33	70.	18.	6.	.24
+	HYDROGRAPH AT	BD40qS	227.	4.58	45.	11.	4.	1.91
+	ROUTED TO	R40qS	222.	4.75	45.	11.	4.	1.91
+	3 COMBINED AT	C40s	745.	5.08	204.	51.	17.	2.89
+	DIVERSION TO	D40sP	68.	3.75	40.	10.	3.	2.89
+	HYDROGRAPH AT	D40s	677.	5.08	164.	41.	14.	2.89
+	ROUTED TO	R40sW	670.	5.17	164.	41.	14.	2.89
+	HYDROGRAPH AT	BD40sP	68.	3.75	40.	10.	3.	2.89
+	ROUTED TO	P40sW	68.	3.92	40.	10.	3.	2.89
+	2 COMBINED AT	C40sW	738.	5.17	203.	51.	17.	2.89
	HYDROGRAPH AT	44s	330.	4.33	68.	17.	6.	.24
+	HYDROGRAPH AT	BD44qP	201.	3.92	124.	33.	11.	2.57
+	ROUTED TO	P44qS	201.	4.00	124.	33.	11.	2.57
+	HYDROGRAPH AT	BD44qS	271.	4.58	54.	13.	4.	2.57
+	ROUTED TO	R44qS	261.	4.75	54.	13.	4.	2.57
+	2 COMBINED AT	C44qS	462.	4.75	177.	46.	15.	2.57
+	3 COMBINED AT	C44s	1345.	4.83	436.	112.	37.	3.79
+	DIVERSION TO	D44sP	201.	3.67	141.	38.	13.	3.79
+	HYDROGRAPH AT	D44s	1144.	4.83	296.	74.	25.	3.79
+	ROUTED TO	R44sW	1140.	4.92	296.	74.	25.	3.79
+	HYDROGRAPH AT	48s	320.	4.33	61.	15.	5.	.21
+	HYDROGRAPH AT	BD48qS	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	R48qS	0.	.00	0.	0.	0.	2.87
	3 COMBINED AT	C48s	1274.	4.83	348.	87.	29.	4.31
+	DIVERSION TO	D48sPT	1063.	4.92	328.	82.	27.	4.31

+	HYDROGRAPH AT DB48s	214.	4.83	20.	5.	2.	4.31
+	ROUTED TO S48s	214.	4.92	20.	5.	2.	4.31
+	ROUTED TO R48sW	194.	5.17	20.	5.	2.	4.31
+	HYDROGRAPH AT 52s	382.	4.33	75.	19.	6.	.26
+	HYDROGRAPH AT BD52qP	191.	4.08	73.	19.	6.	.39
+	ROUTED TO P52qS	191.	4.17	73.	19.	6.	.39
+	HYDROGRAPH AT BD52qS	114.	4.42	14.	3.	1.	.39
+	ROUTED TO R52qS	107.	4.75	14.	3.	1.	.39
+	2 COMBINED AT C52qS	298.	4.75	86.	22.	7.	.39
+	3 COMBINED AT C52s	966.	5.00	218.	55.	18.	.66
+	DIVERSION TO D52sP	191.	3.92	94.	24.	8.	.66
+	HYDROGRAPH AT D52s	775.	5.00	124.	31.	10.	.66
+	ROUTED TO R52sW	749.	5.17	124.	31.	10.	.66
+	HYDROGRAPH AT 56s	384.	4.33	74.	19.	6.	.25
+	HYDROGRAPH AT BD56qP	68.	3.92	33.	8.	3.	.75
+	ROUTED TO P56qS	68.	4.00	33.	8.	3.	.75
+	HYDROGRAPH AT BD56qS	99.	4.75	18.	4.	1.	.75
+	ROUTED TO R56qS	96.	4.92	18.	4.	1.	.75
+	2 COMBINED AT C56qS	164.	4.92	51.	13.	4.	.75
+	3 COMBINED AT C56s	848.	5.17	230.	58.	19.	1.27
+	DIVERSION TO D56sP	201.	4.00	94.	24.	8.	1.27
+	HYDROGRAPH AT D56s	647.	5.17	136.	34.	11.	1.27
+	DIVERSION TO D56sS	97.	5.17	20.	5.	2.	1.27
+	HYDROGRAPH AT D56sW	550.	5.17	115.	29.	10.	1.27
+	ROUTED TO R56sW	529.	5.33	115.	29.	10.	1.27
+	HYDROGRAPH AT 60s	428.	4.25	75.	19.	6.	.25
+	HYDROGRAPH AT BD60qP	281.	4.33	86.	22.	7.	1.10
+	ROUTED TO P60qS	281.	4.42	86.	22.	7.	1.10
	HYDROGRAPH AT						

+	BD60qS	44.	4.67	4.	1.	0.	1.10
ROUTED TO	R60qS	37.	5.00	4.	1.	0.	1.10
2 COMBINED AT +	C60qS	318.	5.00	90.	23.	8.	1.10
3 COMBINED AT +	C60s	957.	4.67	266.	67.	22.	1.87
DIVERSION TO +	D60sP	217.	3.92	104.	26.	9.	1.87
HYDROGRAPH AT +	D60s	740.	4.67	162.	41.	14.	1.87
DIVERSION TO +	D60sS	207.	4.67	45.	11.	4.	1.87
HYDROGRAPH AT +	D60sW	532.	4.67	117.	29.	10.	1.87
ROUTED TO +	R60sW	519.	4.92	117.	29.	10.	1.87
HYDROGRAPH AT +	BD60sP	217.	3.92	104.	26.	9.	1.87
ROUTED TO +	P60sW	217.	4.00	104.	26.	9.	1.87
2 COMBINED AT +	C60sW	736.	4.92	220.	56.	19.	1.87
HYDROGRAPH AT +	64s	432.	4.25	78.	20.	7.	.26
HYDROGRAPH AT +	BD64qS	129.	4.42	24.	6.	2.	1.51
ROUTED TO	R64qS	124.	4.67	24.	6.	2.	1.51
3 COMBINED AT +	C64s	1013.	4.83	311.	79.	26.	2.54
DIVERSION TO +	D64sPT	0.	.00	0.	0.	0.	2.54
HYDROGRAPH AT +	D64s	1013.	4.83	311.	79.	26.	2.54
DIVERSION TO +	D64sP	327.	3.92	165.	42.	14.	2.54
HYDROGRAPH AT +	D64s1	686.	4.83	146.	36.	12.	2.54
DIVERSION TO +	D64sS	288.	4.83	61.	15.	5.	2.54
HYDROGRAPH AT +	D64sW	398.	4.83	85.	21.	7.	2.54
ROUTED TO +	R64sW	392.	4.92	85.	21.	7.	2.54
HYDROGRAPH AT +	68s	345.	4.25	63.	16.	5.	.24
HYDROGRAPH AT +	BD68qS	170.	4.58	35.	9.	3.	1.80
ROUTED TO +	R68qS	162.	4.83	35.	9.	3.	1.80
3 COMBINED AT +	C68s	680.	4.83	173.	44.	15.	3.07
DIVERSION TO	D68sP	124.	4.00	62.	16.	5.	3.07
HYDROGRAPH AT +	D68s	556.	4.83	111.	28.	9.	3.07

+	DIVERSION TO	D68sS	156.	4.83	31.	8.	3.	3.07
	HYDROGRAPH AT	D68sW	400.	4.83	80.	20.	7.	3.07
+	ROUTED TO	R68sW	385.	5.08	80.	20.	7.	3.07
+	HYDROGRAPH AT	72s	432.	4.33	77.	19.	6.	.28
+	HYDROGRAPH AT	BD72qP	662.	4.00	508.	148.	49.	3.13
+	DIVERSION TO	D72qP2	229.	4.00	176.	51.	17.	3.13
+	HYDROGRAPH AT	D72qP1	433.	4.00	332.	97.	32.	3.13
+	ROUTED TO	P72qS1	433.	4.08	332.	97.	32.	3.13
+	HYDROGRAPH AT	B72qP2	229.	4.00	176.	51.	17.	3.13
+	ROUTED TO	P72qS2	229.	4.08	176.	51.	17.	3.13
+	HYDROGRAPH AT	BD72qS	144.	4.67	25.	6.	2.	3.13
+	ROUTED TO	R72qS	137.	5.00	25.	6.	2.	3.13
+	3 COMBINED AT	C72qS	799.	5.00	532.	154.	51.	3.13
+	3 COMBINED AT	C72s	1314.	4.92	671.	191.	64.	4.68
+	DIVERSION TO	D72sP	662.	3.92	522.	153.	51.	4.68
+	HYDROGRAPH AT	D72s	652.	4.92	149.	37.	12.	4.68
+	DIVERSION TO	D72sS	261.	4.92	59.	15.	5.	4.68
+	HYDROGRAPH AT	D72sW	391.	4.92	89.	22.	7.	4.68
+	ROUTED TO	R72sW	379.	5.17	89.	22.	7.	4.68
+	HYDROGRAPH AT	76s	434.	4.33	81.	20.	7.	.28
+	ROUTED TO	S76s	435.	4.33	80.	20.	7.	.28
+	HYDROGRAPH AT	BD76qP	229.	3.75	207.	57.	19.	11.45
+	ROUTED TO	P76qS	229.	3.83	206.	57.	19.	11.45
+	HYDROGRAPH AT	BD76qS	1230.	5.17	443.	111.	37.	11.45
+	ROUTED TO	R76qS	1224.	5.33	443.	111.	37.	11.45
+	2 COMBINED AT	C76qS	1453.	5.33	650.	168.	56.	11.45
+	3 COMBINED AT	C76s	1842.	5.25	779.	202.	67.	13.28
+	DIVERSION TO	D76sP	204.	3.67	191.	55.	18.	13.28
+	HYDROGRAPH AT	D76s	1638.	5.25	588.	147.	49.	13.28

	DIVERSION TO						
+		D76sS	360.	5.25	129.	32.	11.	13.28
	HYDROGRAPH AT						
		D76sW	1278.	5.25	459.	115.	38.	13.28
	ROUTED TO						
+		R76sW	1268.	5.42	458.	115.	38.	13.28
	2 COMBINED AT						
+		CC80q	3215.	5.33	1354.	357.	119.	14.17
	DIVERSION TO						
+		D80qP	364.	3.92	338.	103.	35.	14.17
	HYDROGRAPH AT						
+		D80q	2851.	5.33	1016.	254.	85.	14.17
	DIVERSION TO						
+		D80qW	2851.	5.33	1016.	254.	85.	14.17
	HYDROGRAPH AT						
+		D80qS	0.	.00	0.	0.	0.	14.17
	ROUTED TO						
+		R80qS	0.	.00	0.	0.	0.	14.17
	HYDROGRAPH AT						
+		BD80qP	364.	3.92	338.	103.	35.	14.17
	ROUTED TO						
+		P80qS	364.	4.00	338.	103.	35.	14.17
	2 COMBINED AT						
+		C80qS	364.	4.00	338.	103.	35.	14.17
	HYDROGRAPH AT						
+		52t	395.	4.33	80.	20.	7.	.30
	ROUTED TO						
+		S52t	393.	4.42	73.	18.	6.	.30
	HYDROGRAPH AT						
+		BD52sP	191.	3.92	94.	24.	8.	.66
	ROUTED TO						
+		P52sS	191.	4.00	94.	24.	8.	.66
	2 COMBINED AT						
+		C52t	550.	4.42	166.	42.	14.	.96
	DIVERSION TO						
+		D52tP	281.	4.00	128.	33.	11.	.96
	HYDROGRAPH AT						
+		D52t	269.	4.42	38.	9.	3.	.96
	DIVERSION TO						
+		D52tS	110.	4.42	15.	4.	1.	.96
	HYDROGRAPH AT						
+		D52tW	159.	4.42	22.	6.	2.	.96
	ROUTED TO						
+		R52tW	150.	4.67	22.	6.	2.	.96
	HYDROGRAPH AT						
+		56t	242.	4.33	52.	13.	4.	.18
	HYDROGRAPH AT						
+		BD56sP	201.	4.00	94.	24.	8.	1.27
	ROUTED TO						
+		P56sS	201.	4.08	94.	24.	8.	1.27
	HYDROGRAPH AT						
+		BD56sS	97.	5.17	20.	5.	2.	1.27
	ROUTED TO						
		R56sS	93.	5.33	20.	5.	2.	1.27
	2 COMBINED AT						
+		C56sS	294.	5.33	115.	29.	10.	1.27
	3 COMBINED AT						

+	C56t	570.	4.67	185.	47.	16.	1.74
DIVERSION TO +	D56tP	565.	4.67	185.	47.	16.	1.74
HYDROGRAPH AT +	D56t	5.	4.67	0.	0.	0.	1.74
DIVERSION TO +	D56tS	2.	4.67	0.	0.	0.	1.74
HYDROGRAPH AT +	D56tW	3.	4.67	0.	0.	0.	1.74
ROUTED TO +	R56tW	1.	5.00	0.	0.	0.	1.74
HYDROGRAPH AT +	60t	405.	4.42	88.	22.	7.	.33
ROUTED TO +	S60t	406.	4.42	87.	22.	7.	.33
HYDROGRAPH AT +	BD60sS	207.	4.67	45.	11.	4.	1.87
ROUTED TO +	R60sS	202.	4.92	45.	11.	4.	1.87
3 COMBINED AT +	C60t	468.	4.75	126.	31.	10.	2.68
DIVERSION TO +	D60tS	126.	4.75	34.	8.	3.	2.68
HYDROGRAPH AT +	D60tW	342.	4.75	92.	23.	8.	2.68
ROUTED TO +	R60tW	338.	4.92	92.	23.	8.	2.68
HYDROGRAPH AT +	64t	356.	4.33	71.	18.	6.	.27
HYDROGRAPH AT +	BD64sP	327.	3.92	165.	42.	14.	2.54
ROUTED TO +	P64sS	327.	4.00	165.	42.	14.	2.54
HYDROGRAPH AT +	BD64sS	288.	4.83	61.	15.	5.	2.54
ROUTED TO +	R64sS	282.	5.00	61.	15.	5.	2.54
2 COMBINED AT +	C64sS	609.	5.00	226.	57.	19.	2.54
3 COMBINED AT +	C64t	1100.	4.83	374.	95.	32.	3.61
DIVERSION TO +	D64tPT	0.	.00	0.	0.	0.	3.61
HYDROGRAPH AT +	D64t	1100.	4.83	374.	95.	32.	3.61
DIVERSION TO +	D64tP	375.	3.83	205.	53.	18.	3.61
HYDROGRAPH AT +	D64t1	725.	4.83	169.	42.	14.	3.61
DIVERSION TO +	D64tS	319.	4.83	74.	19.	6.	3.61
HYDROGRAPH AT +	D64tW	406.	4.83	95.	24.	8.	3.61
ROUTED TO +	R64tW	398.	5.00	95.	24.	8.	3.61
HYDROGRAPH AT +	68t	369.	4.33	66.	17.	6.	.25

+	HYDROGRAPH AT BD68sP	124.	4.00	62.	16.	5.	3.07
	ROUTED TO P68sS	124.	4.08	62.	16.	5.	3.07
+	HYDROGRAPH AT BD68sS	156.	4.83	31.	8.	3.	3.07
+	ROUTED TO R68sS	152.	5.00	31.	8.	3.	3.07
+	2 COMBINED AT C68sS	276.	5.00	93.	24.	8.	3.07
+	3 COMBINED AT C68t	802.	4.92	243.	61.	20.	4.39
+	DIVERSION TO D68tP	124.	3.75	73.	19.	6.	4.39
+	HYDROGRAPH AT D68t	678.	4.92	170.	42.	14.	4.39
+	DIVERSION TO D68tS	312.	4.92	78.	20.	7.	4.39
+	HYDROGRAPH AT D68tW	366.	4.92	92.	23.	8.	4.39
+	ROUTED TO R68tW	358.	5.08	92.	23.	8.	4.39
+	HYDROGRAPH AT 72t	273.	4.33	59.	15.	5.	.22
+	HYDROGRAPH AT BD72sS	261.	4.92	59.	15.	5.	4.68
+	ROUTED TO R72sS	257.	5.08	59.	15.	5.	4.68
	HYDROGRAPH AT BD72sP	662.	3.92	522.	153.	51.	4.68
+	DIVERSION TO D72sP2	229.	3.92	181.	53.	18.	4.68
+	HYDROGRAPH AT D72sP1	433.	3.92	342.	100.	33.	4.68
+	ROUTED TO P72sS1	433.	4.00	341.	100.	33.	4.68
+	HYDROGRAPH AT B72sP2	229.	3.92	181.	53.	18.	4.68
+	ROUTED TO P72sS2	229.	4.00	181.	53.	18.	4.68
+	3 COMBINED AT C72sS	919.	5.08	582.	168.	56.	4.68
+	3 COMBINED AT C72t	1378.	5.00	717.	203.	68.	6.23
+	DIVERSION TO D72tP	714.	3.92	554.	162.	54.	6.23
+	HYDROGRAPH AT D72t	664.	5.00	163.	41.	14.	6.23
+	DIVERSION TO D72tS	352.	5.00	86.	22.	7.	6.23
+	HYDROGRAPH AT D72tW	312.	5.00	77.	19.	6.	6.23
+	ROUTED TO R72tW	305.	5.25	77.	19.	6.	6.23
	HYDROGRAPH AT 76t	373.	4.33	74.	19.	6.	.27
+	HYDROGRAPH AT BD76sP	204.	3.67	191.	55.	18.	13.28

+	ROUTED TO	P76sS	204.	3.75	191.	55.	18.	13.28
+	HYDROGRAPH AT	BD76sS	360.	5.25	129.	32.	11.	13.28
+	ROUTED TO	R76sS	356.	5.42	129.	32.	11.	13.28
+	2 COMBINED AT	C76sS	560.	5.42	320.	87.	29.	13.28
+	3 COMBINED AT	C76t	911.	5.33	443.	119.	40.	15.10
+	DIVERSION TO	D76tP	297.	3.83	264.	74.	25.	15.10
+	HYDROGRAPH AT	D76t	614.	5.33	180.	45.	15.	15.10
+	DIVERSION TO	D76tS	325.	5.33	95.	24.	8.	15.10
+	HYDROGRAPH AT	D76tW	289.	5.33	84.	21.	7.	15.10
+	ROUTED TO	R76tW	281.	5.50	84.	21.	7.	15.10
+	HYDROGRAPH AT	80t	307.	4.33	59.	15.	5.	.25
+	3 COMBINED AT	C80t	698.	5.42	463.	136.	46.	16.24
+	DIVERSION TO	D80tP	364.	3.83	340.	105.	35.	16.24
+	HYDROGRAPH AT	D80t	334.	5.42	124.	31.	10.	16.24
+	ROUTED TO	R80tS	332.	5.50	124.	31.	10.	16.24
+	HYDROGRAPH AT	52u	379.	4.42	73.	18.	6.	.39
+	HYDROGRAPH AT	BD52tS	110.	4.42	15.	4.	1.	.96
+	ROUTED TO	R52tS	102.	4.75	15.	4.	1.	.96
+	2 COMBINED AT	C52u	377.	4.67	81.	20.	7.	1.35
+	ROUTED TO	S52u	118.	5.50	72.	18.	6.	1.35
+	HYDROGRAPH AT	BD52tP	281.	4.00	128.	33.	11.	.96
+	ROUTED TO	P52tS	281.	4.08	128.	33.	11.	.96
+	2 COMBINED AT	CC52u	399.	5.50	197.	51.	17.	1.35
+	DIVERSION TO	D52uP	281.	4.08	168.	44.	15.	1.35
+	HYDROGRAPH AT	D52u	118.	5.50	29.	7.	2.	1.35
+	DIVERSION TO	D52uS	38.	5.50	9.	2.	1.	1.35
+	HYDROGRAPH AT	D52uW	80.	5.50	20.	5.	2.	1.35
+	ROUTED TO	R52uW	78.	5.67	20.	5.	2.	1.35
	HYDROGRAPH AT							

+	56u	297.	4.42	65.	17.	6.	.33
HYDROGRAPH AT	BD56tS	2.	4.67	0.	0.	0.	1.74
ROUTED TO +	R56tS	0.	5.25	0.	0.	0.	1.74
3 COMBINED AT +	C56u	296.	4.50	85.	22.	7.	2.46
ROUTED TO +	S56u	243.	4.75	70.	19.	6.	2.46
HYDROGRAPH AT +	BD56tP	565.	4.67	185.	47.	16.	1.74
ROUTED TO +	P56tS	565.	4.75	185.	47.	16.	1.74
2 COMBINED AT +	CC56u	794.	4.75	251.	65.	22.	2.46
DIVERSION TO +	D56uP	612.	4.42	232.	60.	20.	2.46
HYDROGRAPH AT +	D56u	182.	4.75	19.	5.	2.	2.46
DIVERSION TO +	D56uS	38.	4.75	4.	1.	0.	2.46
HYDROGRAPH AT +	D56uW	144.	4.75	15.	4.	1.	2.46
ROUTED TO +	R56uW	131.	5.08	15.	4.	1.	2.46
HYDROGRAPH AT +	60u	289.	4.42	59.	15.	5.	.28
HYDROGRAPH AT	BD60tS	126.	4.75	34.	8.	3.	2.68
ROUTED TO +	R60tS	123.	5.00	34.	8.	3.	2.68
3 COMBINED AT +	C60u	365.	5.00	94.	24.	8.	3.68
ROUTED TO +	S60u	366.	5.00	94.	24.	8.	3.68
DIVERSION TO +	D60uP	124.	4.25	56.	14.	5.	3.68
HYDROGRAPH AT +	D60u	242.	5.00	38.	10.	3.	3.68
DIVERSION TO +	D60uS	80.	5.00	13.	3.	1.	3.68
HYDROGRAPH AT +	D60uW	162.	5.00	25.	6.	2.	3.68
ROUTED TO +	R60uW	152.	5.25	25.	6.	2.	3.68
HYDROGRAPH AT +	64u	349.	4.42	71.	18.	6.	.30
HYDROGRAPH AT +	BD64tP	375.	3.83	205.	53.	18.	3.61
ROUTED TO +	P64tS	375.	3.92	205.	53.	18.	3.61
HYDROGRAPH AT +	BD64tS	319.	4.83	74.	19.	6.	3.61
ROUTED TO	R64tS	312.	5.08	74.	19.	6.	3.61
2 COMBINED AT +	C64tS	687.	5.08	279.	71.	24.	3.61

+	3 COMBINED AT	C64u	954.	5.00	361.	92.	31.	4.91
+	DIVERSION TO	D64uPT	0.	.00	0.	0.	0.	4.91
+	HYDROGRAPH AT	D64u	954.	5.00	361.	92.	31.	4.91
+	DIVERSION TO	D64uP	375.	3.83	217.	56.	19.	4.91
+	HYDROGRAPH AT	D64ul	579.	5.00	144.	36.	12.	4.91
+	DIVERSION TO	D64uS	145.	5.00	36.	9.	3.	4.91
+	HYDROGRAPH AT	D64uW	434.	5.00	108.	27.	9.	4.91
+	ROUTED TO	R64uW	428.	5.17	108.	27.	9.	4.91
+	HYDROGRAPH AT	68u	355.	4.42	73.	18.	6.	.28
+	HYDROGRAPH AT	BD68tP	124.	3.75	73.	19.	6.	4.39
+	ROUTED TO	P68tS	124.	3.83	73.	19.	6.	4.39
+	HYDROGRAPH AT	BD68tS	312.	4.92	78.	20.	7.	4.39
+	ROUTED TO	R68tS	306.	5.08	78.	20.	7.	4.39
+	2 COMBINED AT	C68tS	430.	5.08	151.	38.	13.	4.39
+	3 COMBINED AT	C68u	986.	5.00	318.	80.	27.	5.97
+	DIVERSION TO	D68uP	146.	3.75	94.	24.	8.	5.97
+	HYDROGRAPH AT	D68u	840.	5.00	224.	56.	19.	5.97
+	DIVERSION TO	D68uS	176.	5.00	47.	12.	4.	5.97
+	HYDROGRAPH AT	D68uW	664.	5.00	177.	44.	15.	5.97
+	ROUTED TO	R68uW	660.	5.17	177.	44.	15.	5.97
+	HYDROGRAPH AT	72u	332.	4.33	66.	16.	5.	.26
+	2 COMBINED AT	C72u	795.	5.08	235.	59.	20.	6.23
+	HYDROGRAPH AT	BD72tP	714.	3.92	554.	162.	54.	6.23
+	DIVERSION TO	D72tP2	281.	3.92	218.	64.	21.	6.23
+	HYDROGRAPH AT	D72tP1	433.	3.92	336.	99.	33.	6.23
+	ROUTED TO	P72tS1	433.	4.00	336.	99.	33.	6.23
+	HYDROGRAPH AT	B72tP2	281.	3.92	218.	64.	21.	6.23
+	ROUTED TO	P72tS2	281.	4.00	218.	64.	21.	6.23
+	HYDROGRAPH AT	B72tS	352.	5.00	86.	22.	7.	6.23

+	ROUTED TO	R72tS	344.	5.25	86.	22.	7.	6.23
	3 COMBINED AT	C72tS	1058.	5.25	640.	184.	61.	6.23
+	2 COMBINED AT	CC72u	1795.	5.17	861.	240.	80.	8.06
+	DIVERSION TO	D72uP	714.	3.92	567.	167.	56.	8.06
+	HYDROGRAPH AT	D72u	1081.	5.17	294.	73.	24.	8.06
+	DIVERSION TO	D72uS	335.	5.17	91.	23.	8.	8.06
+	HYDROGRAPH AT	D72uW	746.	5.17	203.	51.	17.	8.06
+	ROUTED TO	R72uW	740.	5.25	203.	51.	17.	8.06
+	HYDROGRAPH AT	BD76tP	297.	3.83	264.	74.	25.	15.10
+	DIVERSION TO	D76tP2	48.	3.83	43.	12.	4.	15.10
+	HYDROGRAPH AT	D76tP1	249.	3.83	221.	62.	21.	15.10
+	ROUTED TO	P76tS1	249.	3.92	221.	62.	21.	15.10
+	HYDROGRAPH AT	B76tP2	48.	3.83	43.	12.	4.	15.10
+	ROUTED TO	P76tS2	48.	4.00	43.	12.	4.	15.10
+	HYDROGRAPH AT	BD76tS	325.	5.33	95.	24.	8.	15.10
+	ROUTED TO	R76tS	317.	5.50	95.	24.	8.	15.10
+	3 COMBINED AT	C76tS	614.	5.50	359.	98.	33.	15.10
+	HYDROGRAPH AT	76u	362.	4.33	71.	18.	6.	.28
+	3 COMBINED AT	C76u	1341.	5.33	590.	156.	52.	17.22
+	DIVERSION TO	D76uP	297.	3.75	267.	76.	25.	17.22
+	HYDROGRAPH AT	D76u	1044.	5.33	323.	81.	27.	17.22
+	DIVERSION TO	D76uS	0.	.00	0.	0.	0.	17.22
+	HYDROGRAPH AT	D76uW	1044.	5.33	323.	81.	27.	17.22
+	ROUTED TO	R76uW	1041.	5.42	323.	81.	27.	17.22
+	HYDROGRAPH AT	80u	357.	4.33	68.	17.	6.	.25
+	3 COMBINED AT	C80u	1422.	5.33	491.	124.	41.	18.61
+	HYDROGRAPH AT	BD80tP	364.	3.83	340.	105.	35.	16.24
+	ROUTED TO	P80tS	364.	3.92	340.	105.	35.	16.24
	HYDROGRAPH AT							

+		BD80qW	2851.	5.33	1016.	254.	85.	14.17
+	3 COMBINED AT	CC80u	4472.	5.33	1790.	469.	157.	18.61
+	ROUTED TO	S-I17	3290.	6.08	1188.	469.	157.	18.61
+	DIVERSION TO	D80uP	509.	6.00	509.	299.	100.	18.61
+	HYDROGRAPH AT	D80u	2781.	6.08	679.	170.	57.	18.61
+	ROUTED TO	R80uW	2755.	6.17	679.	170.	57.	18.61
+	HYDROGRAPH AT	84t	339.	4.33	77.	19.	6.	.27
+	HYDROGRAPH AT	P84tN	252.	4.00	63.	16.	5.	.50
+	2 COMBINED AT	C84t	512.	4.33	139.	36.	12.	.77
+	DIVERSION TO	D84tP	252.	3.83	107.	28.	9.	.77
+	HYDROGRAPH AT	D84t	260.	4.33	32.	8.	3.	.77
+	DIVERSION TO	D84tW	34.	4.33	4.	1.	0.	.77
+	HYDROGRAPH AT	D84tS	227.	4.33	28.	7.	2.	.77
+	ROUTED TO	R84tS	198.	4.58	28.	7.	2.	.77
	HYDROGRAPH AT	84u	311.	4.42	66.	17.	6.	.26
+	3 COMBINED AT	C84u	3393.	6.08	932.	236.	79.	9.04
+	ROUTED TO	S84u	3393.	6.17	930.	236.	79.	9.04
+	HYDROGRAPH AT	BD84tP	252.	3.83	107.	28.	9.	.77
+	ROUTED TO	P84tS	252.	3.92	107.	28.	9.	.77
+	2 COMBINED AT	CC84u	3459.	6.17	1024.	264.	88.	9.04
+	DIVERSION TO	D84uP	252.	3.75	235.	67.	22.	9.04
+	HYDROGRAPH AT	D84u	3207.	6.17	788.	197.	66.	9.04
+	DIVERSION TO	D84uS	641.	6.17	158.	39.	13.	9.04
+	HYDROGRAPH AT	D84uW	2566.	6.17	630.	158.	53.	9.04
+	ROUTED TO	R84uW	2553.	6.25	630.	158.	53.	9.04
+	HYDROGRAPH AT	88t	250.	4.42	64.	16.	5.	.26
+	HYDROGRAPH AT	BD84tW	34.	4.33	4.	1.	0.	.77
+	ROUTED TO	R84tW	28.	4.75	4.	1.	0.	.77
+	2 COMBINED AT	C88t	250.	4.58	66.	17.	6.	1.03

+	DIVERSION TO	D88tW	75.	4.58	20.	5.	2.	1.03
	HYDROGRAPH AT	D88tS	175.	4.58	46.	12.	4.	1.03
+	ROUTED TO	R88tS	171.	4.75	46.	12.	4.	1.03
+	HYDROGRAPH AT	88u	282.	4.42	66.	17.	6.	.25
+	3 COMBINED AT	C88u	2604.	6.25	715.	180.	60.	9.55
+	DIVERSION TO	D88uP	36.	3.67	35.	10.	3.	9.55
+	HYDROGRAPH AT	D88u	2568.	6.25	680.	170.	57.	9.55
+	DIVERSION TO	D88uS	1952.	6.25	517.	129.	43.	9.55
+	HYDROGRAPH AT	D88uW	616.	6.25	163.	41.	14.	9.55
+	ROUTED TO	R88uW	572.	6.50	163.	41.	14.	9.55
+	HYDROGRAPH AT	BD88uP	36.	3.67	35.	10.	3.	9.55
+	ROUTED TO	P88uW	36.	3.75	35.	10.	3.	9.55
+	2 COMBINED AT	C88uW	608.	6.50	197.	51.	17.	9.55
+	HYDROGRAPH AT	92t	150.	4.42	38.	10.	3.	.17
	HYDROGRAPH AT	BD88tW	75.	4.58	20.	5.	2.	1.03
+	ROUTED TO	R88tW	73.	4.75	20.	5.	2.	1.03
+	2 COMBINED AT	C92t	198.	4.58	55.	14.	5.	1.21
+	ROUTED TO	R92tS	196.	4.75	55.	14.	5.	1.21
+	HYDROGRAPH AT	92u	266.	4.42	62.	16.	5.	.25
+	HYDROGRAPH AT	P92uN	141.	4.00	47.	12.	4.	2.50
+	4 COMBINED AT	C92u	680.	6.50	333.	88.	29.	10.17
+	DIVERSION TO	D92uP	201.	3.75	177.	49.	16.	10.17
+	HYDROGRAPH AT	D92u	479.	6.50	156.	39.	13.	10.17
+	ROUTED TO	R92uS	467.	6.58	156.	39.	13.	10.17
+	HYDROGRAPH AT	B92uP	201.	3.75	177.	49.	16.	10.17
+	ROUTED TO	P92uS	201.	3.83	177.	49.	16.	10.17
+	2 COMBINED AT	C92uS	668.	6.58	333.	88.	29.	10.17
	HYDROGRAPH AT	76v	224.	4.42	55.	14.	5.	.24
+	HYDROGRAPH AT	B76uP	297.	3.75	267.	76.	25.	17.22

	DIVERSION TO						
+		D76uP1	249.	3.75	224.	63.	21.	17.22
	HYDROGRAPH AT						
+		D76uP2	48.	3.75	43.	12.	4.	17.22
	ROUTED TO						
+		P76uS2	48.	3.83	43.	12.	4.	17.22
	HYDROGRAPH AT						
+		BD76uS	0.	.00	0.	0.	0.	17.22
	ROUTED TO						
+		R76uS	0.	.00	0.	0.	0.	17.22
	2 COMBINED AT						
+		C76uS	48.	3.83	43.	12.	4.	17.22
	2 COMBINED AT						
+		C76v	224.	4.50	91.	25.	8.	8.24
	DIVERSION TO						
+		D76vP	109.	4.00	72.	20.	7.	8.24
	HYDROGRAPH AT						
+		D76v	88.	4.58	14.	4.	1.	8.24
	DIVERSION TO						
+		D76vS	47.	4.58	7.	2.	1.	8.24
	HYDROGRAPH AT						
+		D76vW	41.	4.58	7.	2.	1.	8.24
	ROUTED TO						
+		R76vW	39.	4.92	7.	2.	1.	8.24
	HYDROGRAPH AT						
+		80v	308.	4.33	66.	17.	6.	.23
	HYDROGRAPH AT						
+		B76uP1	249.	3.75	224.	63.	21.	17.22
	ROUTED TO						
+		P76uS1	249.	3.83	224.	63.	21.	17.22
	3 COMBINED AT						
+		C80v	472.	4.67	288.	80.	27.	8.23
	DIVERSION TO						
+		D80vP	249.	3.75	228.	65.	22.	8.23
	HYDROGRAPH AT						
+		D80v	223.	4.67	60.	15.	5.	8.23
	DIVERSION TO						
+		D80vS	125.	4.67	34.	8.	3.	8.23
	HYDROGRAPH AT						
+		D80vW	98.	4.67	26.	7.	2.	8.23
	ROUTED TO						
+		R80vW	95.	5.08	26.	7.	2.	8.23
	HYDROGRAPH AT						
+		84v	187.	4.50	44.	11.	4.	.25
	HYDROGRAPH AT						
+		BD80uP	509.	6.00	509.	299.	100.	18.61
	ROUTED TO						
+		P80uS	509.	6.08	509.	299.	100.	18.61
	3 COMBINED AT						
+		C84v	685.	5.17	553.	316.	106.	8.73
	HYDROGRAPH AT						
+		BD84uP	252.	3.75	235.	67.	22.	9.04
	ROUTED TO						
+		P84uS	252.	3.83	235.	67.	22.	9.04
	HYDROGRAPH AT						
+		BD84uS	641.	6.17	158.	39.	13.	9.04
	ROUTED TO						

+	R84uS	626.	6.33	158.	39.	13.	9.04
2 COMBINED AT +	C84uS	878.	6.33	393.	106.	36.	9.04
2 COMBINED AT +	CC84v	1434.	6.33	917.	421.	141.	9.76
DIVERSION TO +	D84vP	1269.	6.25	899.	417.	139.	9.76
HYDROGRAPH AT +	D84v	165.	6.33	18.	5.	2.	9.76
DIVERSION TO +	D84vS	61.	6.33	7.	2.	1.	9.76
HYDROGRAPH AT +	D84vW	104.	6.33	11.	3.	1.	9.76
ROUTED TO +	R84vW	76.	6.50	11.	3.	1.	9.76
HYDROGRAPH AT +	88v	264.	4.42	67.	17.	6.	.25
HYDROGRAPH AT +	BD88uS	1952.	6.25	517.	129.	43.	9.55
ROUTED TO +	R88uS	1928.	6.33	517.	129.	43.	9.55
3 COMBINED AT +	C88v	1995.	6.33	571.	144.	48.	10.52
DIVERSION TO +	D88vP	51.	3.83	47.	13.	4.	10.52
HYDROGRAPH AT +	D88v	1944.	6.33	524.	131.	44.	10.52
ROUTED TO	R88vW	1886.	6.50	523.	131.	44.	10.52
HYDROGRAPH AT +	92v	229.	4.25	49.	13.	4.	.16
3 COMBINED AT +	C92v	2517.	6.50	878.	226.	75.	11.30
DIVERSION TO +	D92v	2316.	6.50	686.	171.	57.	11.30
HYDROGRAPH AT +	D92vP	201.	3.67	192.	54.	18.	11.30
ROUTED TO +	P92vS	201.	3.83	192.	54.	18.	11.30
HYDROGRAPH AT +	88w	594.	4.42	138.	35.	12.	.60
HYDROGRAPH AT +	BD88vP	51.	3.83	47.	13.	4.	10.52
ROUTED TO +	P88vS	51.	3.92	47.	13.	4.	10.52
3 COMBINED AT +	C88w	638.	4.58	344.	95.	32.	11.90
HYDROGRAPH AT +	44v	148.	4.42	34.	9.	3.	.24
HYDROGRAPH AT +	BD44sP	201.	3.67	141.	38.	13.	3.79
ROUTED TO +	P44sS	201.	3.92	141.	38.	13.	3.79
2 COMBINED AT	C44v	267.	4.50	161.	43.	14.	4.03
HYDROGRAPH AT +	B48oPT	2369.	5.42	1071.	281.	94.	14.34

+	ROUTED TO	PT48o	2368.	5.50	1072.	281.	94.	14.34
+	HYDROGRAPH AT	B48qPT	416.	4.67	105.	27.	9.	2.87
+	2 COMBINED AT	CPT48q	2551.	5.17	1147.	299.	100.	16.11
+	ROUTED TO	PT48q	2550.	5.17	1147.	299.	100.	16.11
+	HYDROGRAPH AT	B48sPT	1063.	4.92	328.	82.	27.	4.31
+	2 COMBINED AT	CPT48s	3487.	5.08	1421.	368.	123.	17.54
+	ROUTED TO	PT48s	3485.	5.17	1422.	368.	123.	17.54
+	HYDROGRAPH AT	48v	315.	4.33	76.	19.	6.	.30
+	2 COMBINED AT	C48v	3595.	5.17	1477.	383.	128.	17.84
+	2 COMBINED AT	NUL48v	3823.	5.08	1634.	426.	142.	18.08
+	HYDROGRAPH AT	52v	192.	4.42	44.	11.	4.	.30
+	HYDROGRAPH AT	BD52uP	281.	4.08	168.	44.	15.	1.35
+	ROUTED TO	P52uS	281.	4.17	168.	44.	15.	1.35
+	HYDROGRAPH AT	BD52uS	38.	5.50	9.	2.	1.	1.35
+	ROUTED TO	R52uS	37.	5.67	9.	2.	1.	1.35
+	2 COMBINED AT	C52uS	318.	5.67	177.	46.	15.	1.35
+	2 COMBINED AT	C52v	412.	4.58	208.	54.	18.	1.64
+	2 COMBINED AT	NUL52v	4112.	5.08	1794.	468.	156.	19.72
+	HYDROGRAPH AT	56v	176.	4.50	46.	12.	4.	.23
+	HYDROGRAPH AT	BD56uP	612.	4.42	232.	60.	20.	2.46
+	ROUTED TO	P56uS	612.	4.50	232.	61.	20.	2.46
+	HYDROGRAPH AT	BD56uS	38.	4.75	4.	1.	0.	2.46
+	ROUTED TO	R56uS	35.	5.00	4.	1.	0.	2.46
+	2 COMBINED AT	C56uS	647.	5.00	236.	61.	21.	2.46
+	2 COMBINED AT	C56v	762.	4.83	276.	72.	24.	2.69
+	2 COMBINED AT	NUL56v	4727.	5.08	2016.	527.	176.	21.07
+	HYDROGRAPH AT	60v	221.	4.42	54.	14.	5.	.23
+	HYDROGRAPH AT	BD60uP	124.	4.25	56.	14.	5.	3.68
+	ROUTED TO	P60uS	124.	4.33	56.	14.	5.	3.68

+	HYDROGRAPH AT	BD60uS	80.	5.00	13.	3.	1.	3.68
	ROUTED TO	R60uS	77.	5.17	13.	3.	1.	3.68
+	2 COMBINED AT	C60uS	201.	5.17	69.	17.	6.	3.68
+	2 COMBINED AT	C60v	326.	4.67	115.	29.	10.	3.91
+	2 COMBINED AT	NUL60v	4919.	5.08	2092.	547.	182.	22.51
+	HYDROGRAPH AT	BPT64o	3912.	5.33	1905.	507.	169.	21.04
+	HYDROGRAPH AT	B64qPT	0.	.00	0.	0.	0.	1.51
+	2 COMBINED AT	CPT64q	3912.	5.33	1905.	507.	169.	22.55
+	ROUTED TO	PT64q	3868.	5.42	1884.	502.	167.	22.55
+	HYDROGRAPH AT	B64sPT	0.	.00	0.	0.	0.	2.54
+	2 COMBINED AT	CPT64s	3868.	5.42	1884.	502.	167.	23.58
+	ROUTED TO	PT64s	3840.	5.42	1870.	498.	166.	23.58
+	HYDROGRAPH AT	B64tPT	0.	.00	0.	0.	0.	3.61
+	2 COMBINED AT	CPT64t	3840.	5.42	1870.	498.	166.	24.65
	ROUTED TO	PT64t	3812.	5.42	1856.	494.	165.	24.65
+	HYDROGRAPH AT	B64uPT	0.	.00	0.	0.	0.	4.91
+	2 COMBINED AT	CPT64u	3812.	5.42	1856.	494.	165.	25.95
+	ROUTED TO	PT64u	3779.	5.42	1840.	490.	163.	25.95
+	HYDROGRAPH AT	64v	237.	4.33	51.	13.	4.	.19
+	HYDROGRAPH AT	BD64uP	375.	3.83	217.	56.	19.	4.91
+	ROUTED TO	P64uS	375.	3.92	217.	56.	19.	4.91
+	HYDROGRAPH AT	BD64uS	145.	5.00	36.	9.	3.	4.91
+	ROUTED TO	R64uS	144.	5.08	36.	9.	3.	4.91
+	2 COMBINED AT	C64uS	519.	5.08	253.	65.	22.	4.91
+	3 COMBINED AT	C64v	4292.	5.42	2106.	562.	187.	26.15
+	2 COMBINED AT	NUL64v	8234.	5.17	3808.	1009.	337.	44.28
+	HYDROGRAPH AT	68v	185.	4.42	46.	12.	4.	.22
	HYDROGRAPH AT	BD68uP	146.	3.75	94.	24.	8.	5.97
	ROUTED TO							

+	P68uS	146.	3.83	94.	24.	8.	5.97
HYDROGRAPH AT +	BD68uS	176.	5.00	47.	12.	4.	5.97
ROUTED TO +	R68uS	175.	5.17	47.	12.	4.	5.97
2 COMBINED AT +	C68uS	321.	5.17	141.	36.	12.	5.97
2 COMBINED AT +	C68v	417.	4.92	178.	46.	15.	6.19
2 COMBINED AT +	NUL68v	8513.	5.17	3938.	1044.	348.	45.56
HYDROGRAPH AT +	72v	477.	4.33	105.	27.	9.	.41
HYDROGRAPH AT +	BD72uP	714.	3.92	567.	167.	56.	8.06
DIVERSION TO +	D72uP2	281.	3.92	223.	66.	22.	8.06
HYDROGRAPH AT +	D72uP1	433.	3.92	344.	101.	34.	8.06
ROUTED TO +	P72uS1	433.	4.08	344.	101.	34.	8.06
HYDROGRAPH AT +	B72uP2	281.	3.92	223.	66.	22.	8.06
ROUTED TO +	P72uS2	281.	4.08	223.	66.	22.	8.06
HYDROGRAPH AT +	BD72uS	335.	5.17	91.	23.	8.	8.06
ROUTED TO	R72uS	331.	5.33	91.	23.	8.	8.06
3 COMBINED AT +	C72uS	1045.	5.33	658.	190.	63.	8.06
2 COMBINED AT +	C72v	1208.	5.08	741.	212.	71.	8.47
2 COMBINED AT +	NUL72v	9528.	5.17	4595.	1240.	413.	47.06
HYDROGRAPH AT +	76w	207.	4.42	38.	9.	3.	.33
HYDROGRAPH AT +	BD76vS	47.	4.58	7.	2.	1.	8.24
ROUTED TO +	R76vS	45.	4.75	7.	2.	1.	8.24
HYDROGRAPH AT +	BD76vP	109.	4.00	72.	20.	7.	8.24
ROUTED TO +	P76vS	109.	4.17	72.	20.	7.	8.24
2 COMBINED AT +	C76vS	154.	4.75	79.	22.	7.	8.24
2 COMBINED AT +	C76w	207.	4.67	92.	25.	8.	8.57
2 COMBINED AT +	NUL76w	9528.	5.17	4612.	1246.	415.	56.10
HYDROGRAPH AT +	80w	426.	4.33	89.	22.	7.	.36
HYDROGRAPH AT +	BD80vS	125.	4.67	34.	8.	3.	8.23
ROUTED TO +	R80vS	123.	4.83	34.	8.	3.	8.23

+	2 COMBINED AT	C80w	426.	4.50	116.	30.	10.	8.59
	2 COMBINED AT	NUL80w	9522.	5.08	4610.	1246.	415.	58.09
+	HYDROGRAPH AT	BD84vS	61.	6.33	7.	2.	1.	9.76
+	ROUTED TO	R84vS	42.	6.50	7.	2.	1.	9.76
+	HYDROGRAPH AT	BD84vP	1269.	6.25	899.	417.	139.	9.76
+	DIVERSION TO	D84vP2	1017.	6.25	720.	334.	112.	9.76
+	HYDROGRAPH AT	D84vP1	252.	6.25	179.	83.	28.	9.76
+	ROUTED TO	P84vS1	252.	6.33	179.	83.	28.	9.76
+	HYDROGRAPH AT	B84vP2	1017.	6.25	720.	334.	112.	9.76
+	ROUTED TO	P84vS2	1017.	6.33	720.	334.	112.	9.76
+	3 COMBINED AT	C84vS	1311.	6.50	906.	419.	140.	9.76
+	HYDROGRAPH AT	84w	334.	4.42	75.	19.	6.	.34
+	HYDROGRAPH AT	BD80vP	249.	3.75	228.	65.	22.	8.23
+	ROUTED TO	P80vS	249.	3.92	228.	65.	22.	8.23
	3 COMBINED AT	C84w	1588.	6.25	1175.	499.	167.	10.10
+	2 COMBINED AT	NUL84w	10697.	5.08	5503.	1695.	566.	59.72
+	2 COMBINED AT	NUL88w	11099.	5.08	5771.	1771.	591.	61.86
+	HYDROGRAPH AT	24s	264.	4.25	44.	11.	4.	.19
+	ROUTED TO	S24s	207.	4.50	34.	8.	3.	.19
+	HYDROGRAPH AT	B28qP2	32.	4.00	15.	4.	1.	.82
+	ROUTED TO	P28qE	32.	4.08	15.	4.	1.	.82
+	2 COMBINED AT	C24s	239.	4.50	49.	12.	4.	.20
+	DIVERSION TO	D24sP	239.	4.50	49.	12.	4.	.20
+	HYDROGRAPH AT	D24s	0.	.00	0.	0.	0.	.20
+	ROUTED TO	R24sS	0.	.00	0.	0.	0.	.20
+	HYDROGRAPH AT	BD24sP	239.	4.50	49.	12.	4.	.20
+	DIVERSION TO	D24sPE	31.	4.50	6.	2.	1.	.20
	HYDROGRAPH AT	D24sPS	208.	4.50	42.	11.	4.	.20
+	ROUTED TO	P24sS	207.	4.58	42.	11.	4.	.20

+	2 COMBINED AT	C24sS	207.	4.58	42.	11.	4.	.20
+	HYDROGRAPH AT	24t	322.	4.25	35.	9.	3.	.26
+	2 COMBINED AT	C24t	402.	4.42	77.	20.	7.	.46
+	ROUTED TO	S24t	76.	5.50	51.	19.	7.	.46
+	HYDROGRAPH AT	04s	601.	4.08	52.	13.	4.	.28
+	ROUTED TO	S04s	571.	4.17	51.	13.	4.	.28
+	ROUTED TO	R04sS	537.	4.17	51.	13.	4.	.28
+	HYDROGRAPH AT	08q	690.	4.17	96.	24.	8.	.44
+	ROUTED TO	R08qS	667.	4.25	96.	24.	8.	.44
+	HYDROGRAPH AT	08s	1015.	4.25	143.	36.	12.	.65
+	3 COMBINED AT	C08s	1766.	4.25	269.	68.	23.	1.37
+	ROUTED TO	S08s	1781.	4.25	227.	68.	23.	1.37
+	DIVERSION TO	D08sP	862.	4.17	176.	55.	18.	1.37
+	HYDROGRAPH AT	D08s	919.	4.25	52.	13.	4.	1.37
+	ROUTED TO	R08sW	829.	4.42	52.	13.	4.	1.37
+	HYDROGRAPH AT	12q	589.	4.17	64.	16.	5.	.40
+	ROUTED TO	R12qS	564.	4.25	64.	16.	5.	.40
+	HYDROGRAPH AT	12s	420.	4.17	59.	15.	5.	.21
+	ROUTED TO	S12s	382.	4.25	42.	15.	5.	.21
+	2 COMBINED AT	C12s	901.	4.25	102.	30.	10.	.61
+	ROUTED TO	R12sW	840.	4.33	102.	30.	10.	.61
+	2 COMBINED AT	C12sW	1281.	4.42	132.	38.	13.	1.97
+	DIVERSION TO	D16sP2	979.	4.42	121.	35.	12.	1.97
+	HYDROGRAPH AT	D16s2	302.	4.42	11.	3.	1.	1.97
+	HYDROGRAPH AT	16o	694.	4.00	62.	16.	5.	.21
+	ROUTED TO	R16oS	608.	4.08	62.	16.	5.	.21
+	HYDROGRAPH AT	16q	712.	4.25	112.	28.	9.	.65
+	2 COMBINED AT	C16q	1102.	4.17	169.	43.	14.	.86
	ROUTED TO							

+	S16q	679.	4.50	100.	25.	8.	.86
DIVERSION TO	D16qP	617.	4.58	97.	24.	8.	.86
HYDROGRAPH AT +	D16q	74.	4.42	2.	1.	0.	.86
ROUTED TO +	R16qS	41.	4.58	2.	1.	0.	.86
HYDROGRAPH AT +	16s	872.	4.17	110.	28.	9.	.42
3 COMBINED AT +	C16s	547.	4.17	102.	26.	9.	3.26
ROUTED TO +	S16s	535.	4.25	64.	16.	5.	3.26
HYDROGRAPH AT +	BD16qP	617.	4.58	97.	24.	8.	.86
DIVERSION TO +	D16qPW	164.	4.58	26.	6.	2.	.86
HYDROGRAPH AT +	D16qPS	453.	4.58	71.	18.	6.	.86
ROUTED TO +	P16qS	451.	4.58	71.	18.	6.	.86
2 COMBINED AT +	CC16s	768.	4.50	123.	31.	10.	3.26
DIVERSION TO +	D16sP	687.	4.58	121.	30.	10.	3.26
HYDROGRAPH AT +	D16s	84.	4.50	2.	0.	0.	3.26
ROUTED TO	R16sS	33.	4.67	2.	0.	0.	3.26
HYDROGRAPH AT +	BD16sP	687.	4.58	121.	30.	10.	3.26
ROUTED TO +	P16sS	686.	4.58	121.	30.	10.	3.26
2 COMBINED AT +	C16sS	711.	4.58	123.	31.	10.	3.26
HYDROGRAPH AT +	20p	636.	4.25	99.	25.	8.	.53
ROUTED TO +	S20p1	632.	4.33	96.	24.	8.	.53
HYDROGRAPH AT +	B16qPW	164.	4.58	26.	6.	2.	.86
ROUTED TO +	P16qW	162.	4.58	26.	6.	2.	.86
2 COMBINED AT +	C20p	612.	4.42	112.	28.	9.	1.39
ROUTED TO +	S20p2	104.	5.50	91.	27.	9.	1.39
HYDROGRAPH AT +	OCCC48	5420.	4.00	1901.	481.	160.	3.00
HYDROGRAPH AT +	BD24oP	48.	3.83	34.	9.	3.	1.20
ROUTED TO +	P24oS	48.	3.92	34.	9.	3.	1.20
2 COMBINED AT	C24oS	5468.	4.00	1935.	490.	163.	3.00
ROUTED TO +	ROCCC	5397.	4.00	1935.	490.	163.	3.00

	2 COMBINED AT						
+		CC20p	5447.	4.00	1996.	514.	171.	4.39
	ROUTED TO						
		R20pS	5455.	4.08	1996.	514.	171.	4.39
	HYDROGRAPH AT						
+		20q	374.	4.25	50.	13.	4.	.28
	HYDROGRAPH AT						
+		B28pP2	68.	4.08	38.	10.	3.	3.11
	ROUTED TO						
+		P28pE	68.	4.33	38.	10.	3.	3.11
	3 COMBINED AT						
+		C20q	5693.	4.08	2072.	533.	178.	4.67
	ROUTED TO						
+		R20qS	5673.	4.08	2072.	533.	178.	4.67
	HYDROGRAPH AT						
+		20s	1028.	4.17	122.	31.	10.	.48
	ROUTED TO						
+		S20s	1024.	4.17	116.	29.	10.	.48
	2 COMBINED AT						
+		C20s	6225.	4.08	2173.	558.	186.	5.15
	HYDROGRAPH AT						
+		B24sPE	31.	4.50	6.	2.	1.	.20
	ROUTED TO						
+		P24sE	31.	4.58	6.	2.	1.	.20
	2 COMBINED AT						
+		CC20s	6225.	4.08	2178.	559.	187.	5.35
	ROUTED TO						
+		R20sS	6201.	4.17	2177.	559.	187.	5.35
	HYDROGRAPH AT						
+		20t	155.	4.42	28.	7.	2.	.26
	ROUTED TO						
+		S20t	0.	.00	0.	0.	0.	.26
	3 COMBINED AT						
+		C20t	6502.	4.17	2278.	584.	195.	8.01
	2 COMBINED AT						
+		NUL20t	6503.	4.17	2301.	596.	199.	8.27

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	INTERPOLATED TO COMPUTATION INTERVAL DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)
FOR STORM = 1 STORM AREA (SQ MI) = .01									
P76cS	MANE	3.33	58.00	238.49	.12	5.00	58.00	240.00	.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1919E+02 EXCESS= .0000E+00 OUTFLOW= .1919E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 2 STORM AREA (SQ MI) = .50									
P76cS	MANE	3.34	58.00	238.73	.12	5.00	58.00	240.00	.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1914E+02 EXCESS= .0000E+00 OUTFLOW= .1914E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 3 STORM AREA (SQ MI) = 2.80									
P76cS	MANE	3.35	58.00	234.32	.12	5.00	58.00	235.00	.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1956E+02 EXCESS= .0000E+00 OUTFLOW= .1957E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 4 STORM AREA (SQ MI) = 16.00									
P76cS	MANE	3.21	58.00	364.33	.13	5.00	58.00	230.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2069E+02 EXCESS= .0000E+00 OUTFLOW= .2070E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 5 STORM AREA (SQ MI) = 90.00									
P76cS	MANE	3.30	58.00	232.82	.13	5.00	58.00	235.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2126E+02 EXCESS= .0000E+00 OUTFLOW= .2127E+02 BASIN STORAGE= .4751E-05 PERCENT ERROR= .0

FOR STORM = 1 STORM AREA (SQ MI) = .01									
P68cS	MANE	2.35	41.00	240.77	.30	5.00	41.00	245.00	.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1121E+02 EXCESS= .0000E+00 OUTFLOW= .1121E+02 BASIN STORAGE= .8207E-05 PERCENT ERROR= -.1

FOR STORM = 2 STORM AREA (SQ MI) = .50									
P68cS	MANE	2.35	41.00	241.04	.30	5.00	41.00	245.00	.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1117E+02 EXCESS= .0000E+00 OUTFLOW= .1118E+02 BASIN STORAGE= .7126E-05 PERCENT ERROR= -.1

FOR STORM = 3 STORM AREA (SQ MI) = 2.80									
P68cS	MANE	2.35	41.00	236.65	.30	5.00	41.00	240.00	.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1133E+02 EXCESS= .0000E+00 OUTFLOW= .1134E+02 BASIN STORAGE= .6470E-05 PERCENT ERROR= -.1

FOR STORM = 4 STORM AREA (SQ MI) = 16.00									
P68cS	MANE	2.25	41.00	240.62	.31	5.00	41.00	245.00	.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1160E+02 EXCESS= .0000E+00 OUTFLOW= .1161E+02 BASIN STORAGE= .6224E-05 PERCENT ERROR= -.1

FOR STORM = 5 STORM AREA (SQ MI) = 90.00									
P68cS	MANE	2.28	41.00	245.74	.31	5.00	41.00	250.00	.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1145E+02 EXCESS= .0000E+00 OUTFLOW= .1146E+02 BASIN STORAGE= .8564E-05 PERCENT ERROR= -.1

FOR STORM = 1 STORM AREA (SQ MI) = .01									
P72cS	MANE	1.66	90.00	263.72	.30	5.00	90.00	265.00	.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1966E+02 EXCESS= .0000E+00 OUTFLOW= .1967E+02 BASIN STORAGE= .6072E-05 PERCENT ERROR= -.1

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FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P72cS  MANE        1.58     90.00    263.68       .30      5.00     90.00    265.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1953E+02 EXCESS= .0000E+00 OUTFLOW= .1953E+02 BASIN STORAGE= .6564E-05 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P72cS  MANE        1.58     90.00    278.26       .26      5.00     90.00    280.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1729E+02 EXCESS= .0000E+00 OUTFLOW= .1730E+02 BASIN STORAGE= .6241E-05 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P72cS  MANE        1.69     80.96    303.33       .21      5.00     80.70    305.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1410E+02 EXCESS= .0000E+00 OUTFLOW= .1411E+02 BASIN STORAGE= .6367E-05 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72cS  MANE        2.09     51.15    302.95       .16      5.00     51.13    305.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1084E+02 EXCESS= .0000E+00 OUTFLOW= .1084E+02 BASIN STORAGE= .6086E-05 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76eS  MANE        2.00     76.00    234.31       .11      5.00     76.00    235.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3812E+02 EXCESS= .0000E+00 OUTFLOW= .3812E+02 BASIN STORAGE= .8523E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P76eS  MANE        1.99     76.00    234.63       .11      5.00     76.00    235.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3803E+02 EXCESS= .0000E+00 OUTFLOW= .3804E+02 BASIN STORAGE= .8523E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P76eS  MANE        1.86     76.00    229.20       .12      5.00     76.00    230.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3841E+02 EXCESS= .0000E+00 OUTFLOW= .3841E+02 BASIN STORAGE= .8523E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P76eS  MANE        1.92     76.00    223.91       .12      5.00     76.00    225.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4047E+02 EXCESS= .0000E+00 OUTFLOW= .4047E+02 BASIN STORAGE= .8523E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76eS  MANE        1.96     76.00    224.93       .12      5.00     76.00    225.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4115E+02 EXCESS= .0000E+00 OUTFLOW= .4115E+02 BASIN STORAGE= .8523E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P60eS  MANE        1.53     75.00    249.55       .56      5.00     75.00    250.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1720E+02 EXCESS= .0000E+00 OUTFLOW= .1721E+02 BASIN STORAGE= .4301E-05 PERCENT ERROR=   -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P60eS  MANE        1.53     75.00    248.26       .55      5.00     75.00    250.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1712E+02 EXCESS= .0000E+00 OUTFLOW= .1713E+02 BASIN STORAGE= .3900E-05 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P60eS  MANE        1.43     75.00    326.62       .55      5.00     75.00    250.00         .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1685E+02 EXCESS= .0000E+00 OUTFLOW= .1686E+02 BASIN STORAGE= .4923E-05 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
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P60eS  MANE        1.59     75.00    259.17       .53      5.00     75.00    260.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1627E+02 EXCESS= .0000E+00 OUTFLOW= .1628E+02 BASIN STORAGE= .4752E-05 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P60eS  MANE        1.51     67.85    278.65       .45      5.00     67.67    280.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1381E+02 EXCESS= .0000E+00 OUTFLOW= .1382E+02 BASIN STORAGE= .4038E-05 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P68eS  MANE        1.75     63.00    240.05       .19      5.00     63.00    245.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2258E+02 EXCESS= .0000E+00 OUTFLOW= .2258E+02 BASIN STORAGE= .1564E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P68eS  MANE        1.75     63.00    238.53       .19      5.00     63.00    240.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2250E+02 EXCESS= .0000E+00 OUTFLOW= .2251E+02 BASIN STORAGE= .1705E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P68eS  MANE        1.76     63.00    234.94       .19      5.00     63.00    235.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2252E+02 EXCESS= .0000E+00 OUTFLOW= .2253E+02 BASIN STORAGE= .1469E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P68eS  MANE        1.76     63.00    234.61       .19      5.00     63.00    235.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2312E+02 EXCESS= .0000E+00 OUTFLOW= .2312E+02 BASIN STORAGE= .1708E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P68eS  MANE        1.77     63.00    239.06       .19      5.00     63.00    240.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2298E+02 EXCESS= .0000E+00 OUTFLOW= .2298E+02 BASIN STORAGE= .1602E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P72eS  MANE        1.34    195.00    258.97       .27      5.00    195.00    260.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4797E+02 EXCESS= .0000E+00 OUTFLOW= .4798E+02 BASIN STORAGE= .1979E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P72eS  MANE        1.30    195.00    257.86       .27      5.00    195.00    260.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4771E+02 EXCESS= .0000E+00 OUTFLOW= .4773E+02 BASIN STORAGE= .1715E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P72eS  MANE        1.33    195.00    268.88       .25      5.00    195.00    270.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4440E+02 EXCESS= .0000E+00 OUTFLOW= .4442E+02 BASIN STORAGE= .2013E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P72eS  MANE        1.37    195.00    293.64       .22      5.00    195.00    295.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3816E+02 EXCESS= .0000E+00 OUTFLOW= .3817E+02 BASIN STORAGE= .1915E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P72eS  MANE        1.59    122.70    302.92       .15      5.00    122.68    305.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2720E+02 EXCESS= .0000E+00 OUTFLOW= .2721E+02 BASIN STORAGE= .1869E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P72gS  MANE        1.78    178.00    250.27       .17      5.00    178.00    255.00         .17
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .6780E+02 EXCESS= .0000E+00 OUTFLOW= .6782E+02 BASIN STORAGE= .7280E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P72gS  MANE         1.79    178.00    248.81       .17      5.00    178.00    250.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6758E+02 EXCESS= .0000E+00 OUTFLOW= .6760E+02 BASIN STORAGE= .7207E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P72gS  MANE         1.80    178.00    249.07       .16      5.00    178.00    250.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6679E+02 EXCESS= .0000E+00 OUTFLOW= .6681E+02 BASIN STORAGE= .6824E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P72gS  MANE         1.91    178.00    254.92       .16      5.00    178.00    255.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6699E+02 EXCESS= .0000E+00 OUTFLOW= .6700E+02 BASIN STORAGE= .7228E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P72gS  MANE         1.83    178.00    258.69       .16      5.00    178.00    260.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6514E+02 EXCESS= .0000E+00 OUTFLOW= .6516E+02 BASIN STORAGE= .7331E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P76gS  MANE         1.85     76.03    418.39       .08      5.00     76.00    415.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3145E+02 EXCESS= .0000E+00 OUTFLOW= .3146E+02 BASIN STORAGE= .7066E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P76gS  MANE         1.85     76.00    412.72       .08      5.00     76.00    240.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3140E+02 EXCESS= .0000E+00 OUTFLOW= .3140E+02 BASIN STORAGE= .6621E-04 PERCENT ERROR=

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P76gS  MANE         1.88     76.00    239.53       .08      5.00     76.00    240.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3148E+02 EXCESS= .0000E+00 OUTFLOW= .3148E+02 BASIN STORAGE= .6621E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P76gS  MANE         1.85     76.00    403.59       .08      5.00     76.00    240.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3104E+02 EXCESS= .0000E+00 OUTFLOW= .3104E+02 BASIN STORAGE= .7065E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P76gS  MANE         1.91     76.00    245.05       .08      5.00     76.00    250.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3053E+02 EXCESS= .0000E+00 OUTFLOW= .3053E+02 BASIN STORAGE= .6621E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P72iW  MANE         1.45     32.00    382.18       .03      5.00     32.00    385.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1366E+02 EXCESS= .0000E+00 OUTFLOW= .1366E+02 BASIN STORAGE= .1384E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P72iW  MANE         1.53     32.00    272.84       .03      5.00     32.00    270.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1362E+02 EXCESS= .0000E+00 OUTFLOW= .1362E+02 BASIN STORAGE= .1341E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P72iW  MANE         1.51     32.00    243.62       .03      5.00     32.00    245.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1351E+02 EXCESS= .0000E+00 OUTFLOW= .1351E+02 BASIN STORAGE= .1364E-04 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P72iW  MANE         1.46     32.00    303.27       .03      5.00     32.00    305.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1368E+02 EXCESS= .0000E+00 OUTFLOW= .1368E+02 BASIN STORAGE= .1387E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72iW  MANE         1.50     32.00    254.12       .03      5.00     32.00    255.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1345E+02 EXCESS= .0000E+00 OUTFLOW= .1345E+02 BASIN STORAGE= .1400E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76iS  MANE         1.12    106.00    233.78       .10      5.00    106.00    235.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4834E+02 EXCESS= .0000E+00 OUTFLOW= .4834E+02 BASIN STORAGE= .1590E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P76iS  MANE         1.29    106.00    232.76       .10      5.00    106.00    235.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4823E+02 EXCESS= .0000E+00 OUTFLOW= .4823E+02 BASIN STORAGE= .1590E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P76iS  MANE         1.15    106.00    232.60       .10      5.00    106.00    235.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4819E+02 EXCESS= .0000E+00 OUTFLOW= .4819E+02 BASIN STORAGE= .1589E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P76iS  MANE         1.17    106.00    232.82       .10      5.00    106.00    235.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4767E+02 EXCESS= .0000E+00 OUTFLOW= .4767E+02 BASIN STORAGE= .3007E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76iS  MANE         1.23    106.00    329.37       .10      5.00    106.00    330.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4743E+02 EXCESS= .0000E+00 OUTFLOW= .4743E+02 BASIN STORAGE= .3047E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56gS  MANE         1.41    130.00    247.85       .57      5.00    130.00    250.00         .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2791E+02 EXCESS= .0000E+00 OUTFLOW= .2793E+02 BASIN STORAGE= .6536E-05 PERCENT ERROR=   -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P56gS  MANE         1.46    130.00    248.02       .57      5.00    130.00    250.00         .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2778E+02 EXCESS= .0000E+00 OUTFLOW= .2780E+02 BASIN STORAGE= .7358E-05 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P56gS  MANE         1.52    130.00    254.13       .56      5.00    130.00    255.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2749E+02 EXCESS= .0000E+00 OUTFLOW= .2751E+02 BASIN STORAGE= .7417E-05 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P56gS  MANE         1.51    130.00    264.17       .55      5.00    130.00    265.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2694E+02 EXCESS= .0000E+00 OUTFLOW= .2695E+02 BASIN STORAGE= .6803E-05 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P56gS  MANE         1.44    122.20    282.67       .50      5.00    122.13    285.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2434E+02 EXCESS= .0000E+00 OUTFLOW= .2436E+02 BASIN STORAGE= .7287E-05 PERCENT ERROR=   -.1
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P60gS  MANE         1.47    124.00    244.34       .33      5.00    124.00    245.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3259E+02 EXCESS= .0000E+00 OUTFLOW= .3261E+02 BASIN STORAGE= .1619E-04 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P60gS  MANE         1.52    124.00    243.16       .33      5.00    124.00    245.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3247E+02 EXCESS= .0000E+00 OUTFLOW= .3249E+02 BASIN STORAGE= .1528E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P60gS  MANE         1.51    124.00    244.24       .33      5.00    124.00    245.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3247E+02 EXCESS= .0000E+00 OUTFLOW= .3249E+02 BASIN STORAGE= .1554E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P60gS  MANE         1.49    124.00    248.43       .33      5.00    124.00    250.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3222E+02 EXCESS= .0000E+00 OUTFLOW= .3223E+02 BASIN STORAGE= .1474E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P60gS  MANE         1.50    124.00    258.06       .31      5.00    124.00    260.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2982E+02 EXCESS= .0000E+00 OUTFLOW= .2983E+02 BASIN STORAGE= .1440E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P64gS  MANE         1.57    153.00    258.49       .23      5.00    153.00    260.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3753E+02 EXCESS= .0000E+00 OUTFLOW= .3755E+02 BASIN STORAGE= .8730E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P64gS  MANE         1.52    153.00    258.65       .23      5.00    153.00    260.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3735E+02 EXCESS= .0000E+00 OUTFLOW= .3737E+02 BASIN STORAGE= .9470E-05 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P64gS  MANE         1.48    153.00    269.36       .21      5.00    153.00    270.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3541E+02 EXCESS= .0000E+00 OUTFLOW= .3543E+02 BASIN STORAGE= .7337E-05 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P64gS  MANE         1.50    153.00    293.18       .19      5.00    153.00    295.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3170E+02 EXCESS= .0000E+00 OUTFLOW= .3171E+02 BASIN STORAGE= .7479E-05 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P64gS  MANE         1.89     95.16    308.30       .14      5.00     95.11    305.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2262E+02 EXCESS= .0000E+00 OUTFLOW= .2263E+02 BASIN STORAGE= .8072E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P68gS  MANE         1.77     82.00    244.12       .13      5.00     82.00    245.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3127E+02 EXCESS= .0000E+00 OUTFLOW= .3128E+02 BASIN STORAGE= .2971E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P68gS  MANE         1.76     82.00    244.40       .13      5.00     82.00    245.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3118E+02 EXCESS= .0000E+00 OUTFLOW= .3118E+02 BASIN STORAGE= .2996E-04 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P68gS  MANE         1.75     82.00    238.91       .13      5.00     82.00    240.00         .13
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .3101E+02 EXCESS= .0000E+00 OUTFLOW= .3102E+02 BASIN STORAGE= .2913E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68gS  MANE         1.73     82.00    238.63       .13      5.00     82.00    240.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3177E+02 EXCESS= .0000E+00 OUTFLOW= .3177E+02 BASIN STORAGE= .2735E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68gS  MANE         1.74     82.00    239.29       .13      5.00     82.00    240.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3157E+02 EXCESS= .0000E+00 OUTFLOW= .3158E+02 BASIN STORAGE= .3105E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68iS  MANE         1.42     99.00    238.49       .07      5.00     99.00    240.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4258E+02 EXCESS= .0000E+00 OUTFLOW= .4258E+02 BASIN STORAGE= .7742E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P68iS  MANE         1.44     99.00    238.65       .07      5.00     99.00    240.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4246E+02 EXCESS= .0000E+00 OUTFLOW= .4246E+02 BASIN STORAGE= .7724E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P68iS  MANE         1.44     99.00    233.97       .07      5.00     99.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4216E+02 EXCESS= .0000E+00 OUTFLOW= .4216E+02 BASIN STORAGE= .7756E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68iS  MANE         1.45     99.00    234.25       .07      5.00     99.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4318E+02 EXCESS= .0000E+00 OUTFLOW= .4319E+02 BASIN STORAGE= .7693E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68iS  MANE         1.55     99.00    233.90       .07      5.00     99.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4289E+02 EXCESS= .0000E+00 OUTFLOW= .4289E+02 BASIN STORAGE= .7698E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P48iW  MANE         1.06     47.00    243.08       .13      5.00     47.00    245.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1205E+02 EXCESS= .0000E+00 OUTFLOW= .1205E+02 BASIN STORAGE= .3794E-13 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P48iW  MANE         1.06     47.00    243.15       .13      5.00     47.00    245.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1199E+02 EXCESS= .0000E+00 OUTFLOW= .1200E+02 BASIN STORAGE= .3762E-13 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P48iW  MANE         1.04     47.00    247.92       .12      5.00     47.00    250.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1138E+02 EXCESS= .0000E+00 OUTFLOW= .1138E+02 BASIN STORAGE= .3829E-13 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P48iW  MANE         1.09     47.00    258.03       .11      5.00     47.00    260.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1050E+02 EXCESS= .0000E+00 OUTFLOW= .1050E+02 BASIN STORAGE= .3797E-13 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P48iW  MANE         1.09     39.62    282.10       .09      5.00     39.60    280.00         .09
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .8401E+01 EXCESS= .0000E+00 OUTFLOW= .8401E+01 BASIN STORAGE= .3833E-13 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P52iS  MANE        3.32     95.00    247.28       .36      5.00     95.00    250.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4343E+02 EXCESS= .0000E+00 OUTFLOW= .4345E+02 BASIN STORAGE= .1828E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P52iS  MANE        3.31     95.00    247.46       .35      5.00     95.00    250.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4278E+02 EXCESS= .0000E+00 OUTFLOW= .4280E+02 BASIN STORAGE= .1718E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P52iS  MANE        3.23     95.00    252.64       .26      5.00     95.00    255.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3167E+02 EXCESS= .0000E+00 OUTFLOW= .3169E+02 BASIN STORAGE= .1640E-10 PERCENT ERROR=   -.1

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P52iS  MANE        3.31     95.00    257.92       .21      5.00     95.00    260.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2554E+02 EXCESS= .0000E+00 OUTFLOW= .2556E+02 BASIN STORAGE= .1620E-10 PERCENT ERROR=   -.1

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P52iS  MANE        3.26     95.00    266.99       .18      5.00     95.00    270.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2226E+02 EXCESS= .0000E+00 OUTFLOW= .2228E+02 BASIN STORAGE= .1625E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          PARC40  MANE        3.28     46.25    247.87      1.40      5.00     45.65    245.00        1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7468E+01 EXCESS= .0000E+00 OUTFLOW= .7472E+01 BASIN STORAGE=-.2238E-02 PERCENT ERROR=

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          PARC40  MANE        3.28     46.25    247.87      1.40      5.00     45.65    245.00        1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7468E+01 EXCESS= .0000E+00 OUTFLOW= .7472E+01 BASIN STORAGE=-.2238E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          PARC40  MANE        3.28     46.25    247.87      1.40      5.00     45.65    245.00        1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7468E+01 EXCESS= .0000E+00 OUTFLOW= .7472E+01 BASIN STORAGE=-.2238E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          PARC40  MANE        3.28     46.25    247.87      1.40      5.00     45.65    245.00        1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7468E+01 EXCESS= .0000E+00 OUTFLOW= .7472E+01 BASIN STORAGE=-.2238E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          PARC40  MANE        3.28     46.25    247.87      1.40      5.00     45.65    245.00        1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7468E+01 EXCESS= .0000E+00 OUTFLOW= .7472E+01 BASIN STORAGE=-.2238E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P36iS  MANE        3.38     41.01    356.48       .58      5.00     41.01    355.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1054E+02 EXCESS= .0000E+00 OUTFLOW= .1056E+02 BASIN STORAGE= .9927E-11 PERCENT ERROR=   -.1

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P36iS  MANE        3.37     41.02    356.57       .58      5.00     41.01    355.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+02 EXCESS= .0000E+00 OUTFLOW= .1052E+02 BASIN STORAGE= .9665E-11 PERCENT ERROR=   -.1
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FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P36iS  MANE         3.40     41.00    244.25       .57      5.00     41.00    245.00        .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1035E+02 EXCESS= .0000E+00 OUTFLOW= .1036E+02 BASIN STORAGE= .1004E-10 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P36iS  MANE         3.38     41.00    249.70       .56      5.00     41.00    250.00        .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1019E+02 EXCESS= .0000E+00 OUTFLOW= .1020E+02 BASIN STORAGE= .9749E-11 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P36iS  MANE         3.46     41.00    263.49       .50      5.00     41.00    265.00        .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9092E+01 EXCESS= .0000E+00 OUTFLOW= .9097E+01 BASIN STORAGE= .9516E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44iS  MANE         3.89     48.00    251.46       .21      5.00     48.00    255.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1337E+02 EXCESS= .0000E+00 OUTFLOW= .1338E+02 BASIN STORAGE= .2084E-10 PERCENT ERROR=   -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P44iS  MANE         3.89     48.00    247.96       .21      5.00     48.00    250.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1332E+02 EXCESS= .0000E+00 OUTFLOW= .1333E+02 BASIN STORAGE= .2058E-10 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P44iS  MANE         3.88     48.00    351.66       .21      5.00     48.00    350.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1299E+02 EXCESS= .0000E+00 OUTFLOW= .1299E+02 BASIN STORAGE= .2086E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P44iS  MANE         3.92     48.00    254.34       .21      5.00     48.00    255.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1302E+02 EXCESS= .0000E+00 OUTFLOW= .1302E+02 BASIN STORAGE= .2055E-10 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44iS  MANE         3.89     48.00    312.30       .20      5.00     48.00    270.00        .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1236E+02 EXCESS= .0000E+00 OUTFLOW= .1237E+02 BASIN STORAGE= .2060E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P54iS  MANE         3.97     68.00    254.19       .65      5.00     68.00    255.00        .65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1530E+02 EXCESS= .0000E+00 OUTFLOW= .1530E+02 BASIN STORAGE= .2818E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P54iS  MANE         3.97     68.00    254.38       .65      5.00     68.00    255.00        .65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1524E+02 EXCESS= .0000E+00 OUTFLOW= .1524E+02 BASIN STORAGE= .2786E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P54iS  MANE         4.03     68.00    261.95       .65      5.00     68.00    265.00        .65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1525E+02 EXCESS= .0000E+00 OUTFLOW= .1526E+02 BASIN STORAGE= .2824E-10 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P54iS  MANE         3.93     68.00    263.01       .64      5.00     68.00    265.00        .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1504E+02 EXCESS= .0000E+00 OUTFLOW= .1505E+02 BASIN STORAGE= .2740E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
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P54iS  MANE        4.05     65.26    291.76       .56      5.00     65.13    295.00        .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1304E+02 EXCESS= .0000E+00 OUTFLOW= .1305E+02 BASIN STORAGE= .2871E-10 PERCENT ERROR=  -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P56iS  MANE        1.81    204.00    245.35       .57      5.00    204.00    250.00        .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4897E+02 EXCESS= .0000E+00 OUTFLOW= .4899E+02 BASIN STORAGE= .2227E-06 PERCENT ERROR=   .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P56iS  MANE        1.81    204.00    243.73       .56      5.00    204.00    245.00        .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4878E+02 EXCESS= .0000E+00 OUTFLOW= .4880E+02 BASIN STORAGE= .2199E-06 PERCENT ERROR=   .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P56iS  MANE        1.74    204.00    249.55       .56      5.00    204.00    250.00        .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4878E+02 EXCESS= .0000E+00 OUTFLOW= .4879E+02 BASIN STORAGE= .2211E-06 PERCENT ERROR=   .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P56iS  MANE        1.73    204.00    254.21       .56      5.00    204.00    255.00        .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4838E+02 EXCESS= .0000E+00 OUTFLOW= .4839E+02 BASIN STORAGE= .2228E-06 PERCENT ERROR=   .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P56iS  MANE        1.76    204.00    269.13       .51      5.00    204.00    270.00        .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4387E+02 EXCESS= .0000E+00 OUTFLOW= .4388E+02 BASIN STORAGE= .2240E-06 PERCENT ERROR=   .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P60iS1  MANE       1.72     68.00    243.61       .12      5.00     68.00    245.00        .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1854E+02 EXCESS= .0000E+00 OUTFLOW= .1854E+02 BASIN STORAGE= .1522E-06 PERCENT ERROR=   .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P60iS1  MANE       1.71     68.00    243.80       .11      5.00     68.00    245.00        .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1847E+02 EXCESS= .0000E+00 OUTFLOW= .1848E+02 BASIN STORAGE= .1554E-06 PERCENT ERROR=   .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P60iS1  MANE       1.79     68.00    239.31       .12      5.00     68.00    240.00        .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1856E+02 EXCESS= .0000E+00 OUTFLOW= .1856E+02 BASIN STORAGE= .1546E-06 PERCENT ERROR=   .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P60iS1  MANE       1.78     68.00    244.29       .11      5.00     68.00    245.00        .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1850E+02 EXCESS= .0000E+00 OUTFLOW= .1850E+02 BASIN STORAGE= .1547E-06 PERCENT ERROR=   .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P60iS1  MANE       1.76     68.00    254.98       .11      5.00     68.00    255.00        .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1711E+02 EXCESS= .0000E+00 OUTFLOW= .1712E+02 BASIN STORAGE= .1560E-06 PERCENT ERROR=   .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P60iS2  MANE       1.54    143.00    243.19       .24      5.00    143.00    245.00        .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3898E+02 EXCESS= .0000E+00 OUTFLOW= .3899E+02 BASIN STORAGE= .2723E-06 PERCENT ERROR=   .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P60iS2  MANE       1.54    143.00    243.41       .24      5.00    143.00    245.00        .24
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .3885E+02 EXCESS= .0000E+00 OUTFLOW= .3885E+02 BASIN STORAGE= .2736E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P60iS2  MANE         1.38    143.00    239.07       .24      5.00    143.00    240.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3903E+02 EXCESS= .0000E+00 OUTFLOW= .3904E+02 BASIN STORAGE= .2733E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P60iS2  MANE         1.47    143.00    244.09       .24      5.00    143.00    245.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3891E+02 EXCESS= .0000E+00 OUTFLOW= .3891E+02 BASIN STORAGE= .2729E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P60iS2  MANE         1.38    143.00    253.06       .22      5.00    143.00    255.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3599E+02 EXCESS= .0000E+00 OUTFLOW= .3599E+02 BASIN STORAGE= .2758E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
             P60kE  MANE         2.75     10.00    238.00       .02      5.00     10.00    240.00         .02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3416E+01 EXCESS= .0000E+00 OUTFLOW= .3417E+01 BASIN STORAGE= .5623E-07 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
             P60kE  MANE         2.74     10.00    394.60       .02      5.00     10.00    390.00         .02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3405E+01 EXCESS= .0000E+00 OUTFLOW= .3407E+01 BASIN STORAGE= .5688E-07 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
             P60kE  MANE         2.74     10.00    393.20       .02      5.00     10.00    235.00         .02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3439E+01 EXCESS= .0000E+00 OUTFLOW= .3440E+01 BASIN STORAGE= .5599E-07 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
             P60kE  MANE         2.85     10.00    233.00       .02      5.00     10.00    235.00         .02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3596E+01 EXCESS= .0000E+00 OUTFLOW= .3597E+01 BASIN STORAGE= .5637E-07 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
             P60kE  MANE         2.90     10.00    235.86       .02      5.00     10.00    240.00         .02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3604E+01 EXCESS= .0000E+00 OUTFLOW= .3605E+01 BASIN STORAGE= .5667E-07 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
             P64iS  MANE         1.07    214.00    247.92       .23      5.00    214.00    250.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5960E+02 EXCESS= .0000E+00 OUTFLOW= .5960E+02 BASIN STORAGE= .1604E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
             P64iS  MANE         1.07    214.00    248.13       .23      5.00    214.00    250.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5940E+02 EXCESS= .0000E+00 OUTFLOW= .5940E+02 BASIN STORAGE= .1596E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
             P64iS  MANE         1.01    214.00    252.65       .23      5.00    214.00    255.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5835E+02 EXCESS= .0000E+00 OUTFLOW= .5835E+02 BASIN STORAGE= .1530E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
             P64iS  MANE         1.06    214.00    262.92       .22      5.00    214.00    265.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5572E+02 EXCESS= .0000E+00 OUTFLOW= .5572E+02 BASIN STORAGE= .1533E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P64iS  MANE         1.04    205.89    296.99       .18      5.00    205.51    300.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4658E+02 EXCESS= .0000E+00 OUTFLOW= .4658E+02 BASIN STORAGE= .1574E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P72iS  MANE         1.93    226.00    244.55       .21      5.00    226.00    245.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9647E+02 EXCESS= .0000E+00 OUTFLOW= .9647E+02 BASIN STORAGE= .3298E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P72iS  MANE         1.93    226.00    244.76       .21      5.00    226.00    245.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9619E+02 EXCESS= .0000E+00 OUTFLOW= .9620E+02 BASIN STORAGE= .3297E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P72iS  MANE         1.82    226.00    243.90       .21      5.00    226.00    245.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9541E+02 EXCESS= .0000E+00 OUTFLOW= .9542E+02 BASIN STORAGE= .3289E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P72iS  MANE         1.81    226.00    249.80       .21      5.00    226.00    250.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9664E+02 EXCESS= .0000E+00 OUTFLOW= .9665E+02 BASIN STORAGE= .3303E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72iS  MANE         1.92    226.00    254.70       .21      5.00    226.00    255.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9500E+02 EXCESS= .0000E+00 OUTFLOW= .9501E+02 BASIN STORAGE= .3294E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76kS  MANE         1.00    106.00    227.45       .06      5.00    106.00    230.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5308E+02 EXCESS= .0000E+00 OUTFLOW= .5308E+02 BASIN STORAGE= .1946E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P76kS  MANE         1.02    106.00    227.73       .06      5.00    106.00    230.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5296E+02 EXCESS= .0000E+00 OUTFLOW= .5296E+02 BASIN STORAGE= .1946E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P76kS  MANE         1.04    106.00    222.86       .06      5.00    106.00    225.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5211E+02 EXCESS= .0000E+00 OUTFLOW= .5211E+02 BASIN STORAGE= .1946E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P76kS  MANE          .90    106.00    222.45       .06      5.00    106.00    225.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5234E+02 EXCESS= .0000E+00 OUTFLOW= .5234E+02 BASIN STORAGE= .2265E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76kS  MANE          .99    106.00    217.64       .06      5.00    106.00    220.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5198E+02 EXCESS= .0000E+00 OUTFLOW= .5198E+02 BASIN STORAGE= .2275E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76lS  MANE         2.70    156.00    237.18       .28      5.00    156.00    240.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7183E+02 EXCESS= .0000E+00 OUTFLOW= .7182E+02 BASIN STORAGE= .6451E-05 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P761S  MANE         2.70    156.00    237.40       .28      5.00    156.00    240.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7165E+02 EXCESS= .0000E+00 OUTFLOW= .7164E+02 BASIN STORAGE= .6450E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P761S  MANE         2.76    156.00    230.81       .27      5.00    156.00    235.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7053E+02 EXCESS= .0000E+00 OUTFLOW= .7054E+02 BASIN STORAGE= .6451E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P761S  MANE         2.77    156.00    231.37       .27      5.00    156.00    235.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7013E+02 EXCESS= .0000E+00 OUTFLOW= .7014E+02 BASIN STORAGE= .7607E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P761S  MANE         2.67    156.00    424.88       .27      5.00    156.00    235.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6874E+02 EXCESS= .0000E+00 OUTFLOW= .6875E+02 BASIN STORAGE= .7625E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P72kS  MANE         1.44    281.00    258.82       .19      5.00    281.00    260.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1328E+03 EXCESS= .0000E+00 OUTFLOW= .1328E+03 BASIN STORAGE= .1111E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P72kS  MANE         1.44    281.00    259.06       .19      5.00    281.00    260.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1324E+03 EXCESS= .0000E+00 OUTFLOW= .1324E+03 BASIN STORAGE= .1111E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P72kS  MANE         1.42    281.00    259.14       .19      5.00    281.00    260.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1312E+03 EXCESS= .0000E+00 OUTFLOW= .1312E+03 BASIN STORAGE= .1110E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P72kS  MANE         1.47    281.00    258.28       .19      5.00    281.00    260.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1321E+03 EXCESS= .0000E+00 OUTFLOW= .1321E+03 BASIN STORAGE= .4821E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72kS  MANE         1.45    281.00    263.83       .19      5.00    281.00    265.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1298E+03 EXCESS= .0000E+00 OUTFLOW= .1298E+03 BASIN STORAGE= .4816E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P721S  MANE         2.12    305.00    249.55       .20      5.00    305.00    250.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1431E+03 EXCESS= .0000E+00 OUTFLOW= .1431E+03 BASIN STORAGE= .1783E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P721S  MANE         2.12    305.00    249.76       .20      5.00    305.00    250.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1427E+03 EXCESS= .0000E+00 OUTFLOW= .1428E+03 BASIN STORAGE= .1783E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P721S  MANE         2.20    305.00    255.72       .20      5.00    305.00    260.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1414E+03 EXCESS= .0000E+00 OUTFLOW= .1414E+03 BASIN STORAGE= .1782E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P721S  MANE         2.15    305.00    254.60       .20      5.00    305.00    255.00         .20
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1421E+03 EXCESS= .0000E+00 OUTFLOW= .1421E+03 BASIN STORAGE= .7752E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P721S  MANE         2.26    305.00    260.51       .20       5.00    305.00    265.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1391E+03 EXCESS= .0000E+00 OUTFLOW= .1391E+03 BASIN STORAGE= .7747E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60kS  MANE         1.65    125.00    350.28       .24       5.00    125.00    350.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4270E+02 EXCESS= .0000E+00 OUTFLOW= .4270E+02 BASIN STORAGE= .4067E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P60kS  MANE         1.65    125.00    233.32       .24       5.00    125.00    235.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4256E+02 EXCESS= .0000E+00 OUTFLOW= .4257E+02 BASIN STORAGE= .4124E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P60kS  MANE         1.69    125.00    243.82       .25       5.00    125.00    245.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4298E+02 EXCESS= .0000E+00 OUTFLOW= .4299E+02 BASIN STORAGE= .4104E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P60kS  MANE         1.76    125.00    229.85       .26       5.00    125.00    230.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4495E+02 EXCESS= .0000E+00 OUTFLOW= .4495E+02 BASIN STORAGE= .4089E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60kS  MANE         1.70    125.00    234.11       .26       5.00    125.00    235.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4505E+02 EXCESS= .0000E+00 OUTFLOW= .4506E+02 BASIN STORAGE= .4108E-06 PERCENT ERROR=

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64kS  MANE         1.73    214.00    254.48       .25       5.00    214.00    255.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8403E+02 EXCESS= .0000E+00 OUTFLOW= .8403E+02 BASIN STORAGE= .5739E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P64kS  MANE         1.72    214.00    254.67       .24       5.00    214.00    255.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8377E+02 EXCESS= .0000E+00 OUTFLOW= .8377E+02 BASIN STORAGE= .5739E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P64kS  MANE         1.62    214.00    259.62       .24       5.00    214.00    260.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8146E+02 EXCESS= .0000E+00 OUTFLOW= .8146E+02 BASIN STORAGE= .5735E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P64kS  MANE         1.75    214.00    269.57       .22       5.00    214.00    270.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7686E+02 EXCESS= .0000E+00 OUTFLOW= .7686E+02 BASIN STORAGE= .5734E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64kS  MANE         1.71    213.60    313.10       .18       5.00    213.50    315.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6083E+02 EXCESS= .0000E+00 OUTFLOW= .6084E+02 BASIN STORAGE= .5737E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68kS  MANE         1.79    114.00    239.97       .07       5.00    114.00    240.00         .07
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5018E+02 EXCESS= .0000E+00 OUTFLOW= .5018E+02 BASIN STORAGE= .9417E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P68kS  MANE         1.79    114.00    240.21       .07      5.00    114.00    245.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5003E+02 EXCESS= .0000E+00 OUTFLOW= .5003E+02 BASIN STORAGE= .9400E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P68kS  MANE         1.75    114.00    233.66       .07      5.00    114.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4955E+02 EXCESS= .0000E+00 OUTFLOW= .4955E+02 BASIN STORAGE= .9408E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68kS  MANE         1.66    114.00    234.55       .07      5.00    114.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5046E+02 EXCESS= .0000E+00 OUTFLOW= .5047E+02 BASIN STORAGE= .9393E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68kS  MANE         1.66    114.00    233.94       .07      5.00    114.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4951E+02 EXCESS= .0000E+00 OUTFLOW= .4951E+02 BASIN STORAGE= .9464E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68lS  MANE         2.98    114.01    479.06       .07      5.00    114.00    240.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5302E+02 EXCESS= .0000E+00 OUTFLOW= .5303E+02 BASIN STORAGE= .1784E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P68lS  MANE         3.09    114.00    237.70       .07      5.00    114.00    240.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5287E+02 EXCESS= .0000E+00 OUTFLOW= .5288E+02 BASIN STORAGE= .1753E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P68lS  MANE         3.06    114.00    233.73       .07      5.00    114.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5229E+02 EXCESS= .0000E+00 OUTFLOW= .5230E+02 BASIN STORAGE= .1773E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68lS  MANE         3.08    114.00    232.04       .07      5.00    114.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5356E+02 EXCESS= .0000E+00 OUTFLOW= .5357E+02 BASIN STORAGE= .1766E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68lS  MANE         3.10    114.00    231.92       .07      5.00    114.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5300E+02 EXCESS= .0000E+00 OUTFLOW= .5300E+02 BASIN STORAGE= .1770E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P28kS  MANE         2.47    131.00    247.32       .76      5.00    131.00    250.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2935E+02 EXCESS= .0000E+00 OUTFLOW= .2936E+02 BASIN STORAGE=-.2046E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P28kS  MANE         2.47    131.00    244.99       .76      5.00    131.00    245.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2926E+02 EXCESS= .0000E+00 OUTFLOW= .2927E+02 BASIN STORAGE=-.2024E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P28kS  MANE         2.36    131.00    251.49       .76      5.00    131.00    255.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2908E+02 EXCESS= .0000E+00 OUTFLOW= .2909E+02 BASIN STORAGE=-.2024E-02 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =       16.00
   P28kS  MANE          2.39    131.00    251.72        .74       5.00    131.00    255.00          .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2850E+02 EXCESS= .0000E+00 OUTFLOW= .2851E+02 BASIN STORAGE=-.2024E-02 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P28kS  MANE          2.45    131.00    275.53        .66       5.00    130.88    275.00          .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2529E+02 EXCESS= .0000E+00 OUTFLOW= .2530E+02 BASIN STORAGE=-.2024E-02 PERCENT ERROR=     .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P32kS  MANE          3.45     45.00    248.20        .20       5.00     45.00    250.00          .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1312E+02 EXCESS= .0000E+00 OUTFLOW= .1313E+02 BASIN STORAGE= .1062E-10 PERCENT ERROR=    -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P32kS  MANE          3.45     45.00    248.40        .20       5.00     45.00    250.00          .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1306E+02 EXCESS= .0000E+00 OUTFLOW= .1307E+02 BASIN STORAGE= .1076E-10 PERCENT ERROR=    -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P32kS  MANE          3.43     45.00    243.67        .20       5.00     45.00    245.00          .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1296E+02 EXCESS= .0000E+00 OUTFLOW= .1296E+02 BASIN STORAGE= .1056E-10 PERCENT ERROR=     .0

FOR STORM = 4  STORM AREA (SQ MI) =       16.00
   P32kS  MANE          3.42     45.00    248.19        .20       5.00     45.00    250.00          .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1317E+02 EXCESS= .0000E+00 OUTFLOW= .1318E+02 BASIN STORAGE= .1073E-10 PERCENT ERROR=     .0

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P32kS  MANE          3.46     45.00    254.37        .20       5.00     45.00    255.00          .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1300E+02 EXCESS= .0000E+00 OUTFLOW= .1300E+02 BASIN STORAGE= .1042E-10 PERCENT ERROR=     .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P36kS  MANE          3.14     59.00    237.00        .18       5.00     59.00    240.00          .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1960E+02 EXCESS= .0000E+00 OUTFLOW= .1961E+02 BASIN STORAGE= .6248E-10 PERCENT ERROR=     .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P36kS  MANE          3.24     59.00    236.67        .18       5.00     59.00    240.00          .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1954E+02 EXCESS= .0000E+00 OUTFLOW= .1955E+02 BASIN STORAGE= .6059E-10 PERCENT ERROR=    -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P36kS  MANE          3.21     59.00    239.20        .18       5.00     59.00    240.00          .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1959E+02 EXCESS= .0000E+00 OUTFLOW= .1959E+02 BASIN STORAGE= .6342E-10 PERCENT ERROR=     .0

FOR STORM = 4  STORM AREA (SQ MI) =       16.00
   P36kS  MANE          3.22     59.00    238.90        .18       5.00     59.00    240.00          .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2025E+02 EXCESS= .0000E+00 OUTFLOW= .2026E+02 BASIN STORAGE= .6199E-10 PERCENT ERROR=     .0

FOR STORM = 5  STORM AREA (SQ MI) =       90.00
   P36kS  MANE          3.18     59.00    236.71        .18       5.00     59.00    240.00          .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1987E+02 EXCESS= .0000E+00 OUTFLOW= .1988E+02 BASIN STORAGE= .5968E-10 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
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P40kS  MANE        3.96     29.00    236.07       .07      5.00     29.00    240.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1093E+02 EXCESS= .0000E+00 OUTFLOW= .1094E+02 BASIN STORAGE= .1405E-10 PERCENT ERROR=   -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P40kS  MANE        3.96     29.00    236.27       .07      5.00     29.00    240.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1090E+02 EXCESS= .0000E+00 OUTFLOW= .1091E+02 BASIN STORAGE= .1398E-10 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P40kS  MANE        4.07     29.00    231.23       .07      5.00     29.00    235.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1094E+02 EXCESS= .0000E+00 OUTFLOW= .1094E+02 BASIN STORAGE= .1474E-10 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P40kS  MANE        4.06     29.00    229.30       .08      5.00     29.00    230.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1147E+02 EXCESS= .0000E+00 OUTFLOW= .1148E+02 BASIN STORAGE= .1417E-10 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P40kS  MANE        4.01     29.00    231.18       .08      5.00     29.00    235.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1142E+02 EXCESS= .0000E+00 OUTFLOW= .1142E+02 BASIN STORAGE= .1460E-10 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P44kS  MANE        3.41     71.00    239.61       .12      5.00     71.00    240.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2526E+02 EXCESS= .0000E+00 OUTFLOW= .2527E+02 BASIN STORAGE= .1127E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P44kS  MANE        3.41     71.00    406.66       .12      5.00     71.00    405.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2518E+02 EXCESS= .0000E+00 OUTFLOW= .2519E+02 BASIN STORAGE= .1117E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P44kS  MANE        3.48     71.00    232.03       .12      5.00     71.00    235.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2522E+02 EXCESS= .0000E+00 OUTFLOW= .2523E+02 BASIN STORAGE= .1132E-09 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P44kS  MANE        3.45     71.00    232.67       .13      5.00     71.00    235.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2634E+02 EXCESS= .0000E+00 OUTFLOW= .2635E+02 BASIN STORAGE= .1124E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P44kS  MANE        3.44     71.00    237.37       .13      5.00     71.00    240.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2633E+02 EXCESS= .0000E+00 OUTFLOW= .2633E+02 BASIN STORAGE= .1097E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P28mS  MANE        2.75    211.00    250.87       .59      5.00    211.00    255.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5463E+02 EXCESS= .0000E+00 OUTFLOW= .5466E+02 BASIN STORAGE=-.2447E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P28mS  MANE        2.58    211.00    251.04       .59      5.00    211.00    255.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5444E+02 EXCESS= .0000E+00 OUTFLOW= .5446E+02 BASIN STORAGE=-.2448E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P28mS  MANE        2.67    211.00    252.50       .59      5.00    211.00    255.00         .59
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5420E+02 EXCESS= .0000E+00 OUTFLOW= .5421E+02 BASIN STORAGE=-.2448E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P28mS  MANE         2.59    211.00    255.21       .58      5.00    211.00    260.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5376E+02 EXCESS= .0000E+00 OUTFLOW= .5378E+02 BASIN STORAGE=-.2448E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P28mS  MANE         2.61    211.00    266.60       .55      5.00    211.00    270.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5044E+02 EXCESS= .0000E+00 OUTFLOW= .5046E+02 BASIN STORAGE=-.2448E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P32mS  MANE         2.77     66.00    236.56       .15      5.00     66.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2232E+02 EXCESS= .0000E+00 OUTFLOW= .2232E+02 BASIN STORAGE= .7220E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P32mS  MANE         2.66     66.00    241.80       .15      5.00     66.00    275.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2224E+02 EXCESS= .0000E+00 OUTFLOW= .2225E+02 BASIN STORAGE= .7220E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P32mS  MANE         2.67     66.00    232.54       .15      5.00     66.00    235.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2235E+02 EXCESS= .0000E+00 OUTFLOW= .2236E+02 BASIN STORAGE= .7220E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P32mS  MANE         2.73     66.00    231.77       .16      5.00     66.00    235.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2344E+02 EXCESS= .0000E+00 OUTFLOW= .2345E+02 BASIN STORAGE= .7220E-06 PERCENT ERROR=

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P32mS  MANE         2.66     66.00    239.40       .16      5.00     66.00    240.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2369E+02 EXCESS= .0000E+00 OUTFLOW= .2369E+02 BASIN STORAGE= .6791E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P36mS  MANE         2.71    114.00    246.38       .17      5.00    114.00    250.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3788E+02 EXCESS= .0000E+00 OUTFLOW= .3789E+02 BASIN STORAGE= .1713E-09 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P36mS  MANE         2.71    114.00    246.60       .17      5.00    114.00    250.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3776E+02 EXCESS= .0000E+00 OUTFLOW= .3777E+02 BASIN STORAGE= .1653E-09 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P36mS  MANE         2.81    114.00    242.78       .17      5.00    114.00    245.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3778E+02 EXCESS= .0000E+00 OUTFLOW= .3780E+02 BASIN STORAGE= .1749E-09 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P36mS  MANE         2.69    114.00    389.44       .18      5.00    114.00    385.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3860E+02 EXCESS= .0000E+00 OUTFLOW= .3861E+02 BASIN STORAGE= .1741E-09 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P36mS  MANE         2.81    114.00    252.58       .17      5.00    114.00    255.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3744E+02 EXCESS= .0000E+00 OUTFLOW= .3745E+02 BASIN STORAGE= .1634E-09 PERCENT ERROR=    .0
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Metro ADMS/P 100-Year, 6-Hour Model

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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P40mS  MANE          2.36     66.00    236.00       .09      5.00     66.00    240.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2528E+02 EXCESS= .0000E+00 OUTFLOW= .2529E+02 BASIN STORAGE= .4117E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P40mS  MANE          2.35     66.00    236.21       .09      5.00     66.00    240.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2521E+02 EXCESS= .0000E+00 OUTFLOW= .2521E+02 BASIN STORAGE= .4100E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P40mS  MANE          2.30     66.00    230.31       .09      5.00     66.00    235.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2529E+02 EXCESS= .0000E+00 OUTFLOW= .2530E+02 BASIN STORAGE= .4320E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P40mS  MANE          2.36     66.00    226.89       .09      5.00     66.00    230.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2647E+02 EXCESS= .0000E+00 OUTFLOW= .2647E+02 BASIN STORAGE= .4149E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P40mS  MANE          2.25     66.00    229.66       .09      5.00     66.00    230.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2623E+02 EXCESS= .0000E+00 OUTFLOW= .2623E+02 BASIN STORAGE= .4276E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44mS  MANE           .70    124.00    236.45       .12      5.00    124.00    240.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4415E+02 EXCESS= .0000E+00 OUTFLOW= .4415E+02 BASIN STORAGE= .4204E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P44mS  MANE           .70    124.00    236.67       .12      5.00    124.00    240.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4402E+02 EXCESS= .0000E+00 OUTFLOW= .4402E+02 BASIN STORAGE= .4182E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P44mS  MANE           .75    124.00    236.90       .12      5.00    124.00    240.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4408E+02 EXCESS= .0000E+00 OUTFLOW= .4408E+02 BASIN STORAGE= .4231E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P44mS  MANE           .83    124.00    236.72       .12      5.00    124.00    240.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4549E+02 EXCESS= .0000E+00 OUTFLOW= .4549E+02 BASIN STORAGE= .4235E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44mS  MANE           .77    124.00    242.19       .12      5.00    124.00    245.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4464E+02 EXCESS= .0000E+00 OUTFLOW= .4464E+02 BASIN STORAGE= .4055E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52kS  MANE          2.38    201.00    249.94       .25      5.00    201.00    250.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7690E+02 EXCESS= .0000E+00 OUTFLOW= .7691E+02 BASIN STORAGE= .9877E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P52kS  MANE          2.38    201.00    250.18       .24      5.00    201.00    255.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7609E+02 EXCESS= .0000E+00 OUTFLOW= .7610E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P52kS  MANE         2.35    201.00    251.13       .21      5.00    201.00    255.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6411E+02 EXCESS= .0000E+00 OUTFLOW= .6413E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P52kS  MANE         2.34    201.00    250.82       .19      5.00    201.00    255.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5773E+02 EXCESS= .0000E+00 OUTFLOW= .5775E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52kS  MANE         2.41    201.00    260.48       .17      5.00    201.00    265.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5246E+02 EXCESS= .0000E+00 OUTFLOW= .5247E+02 BASIN STORAGE= .1049E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P54kS  MANE         2.95    124.00    251.27       .55      5.00    124.00    255.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3475E+02 EXCESS= .0000E+00 OUTFLOW= .3476E+02 BASIN STORAGE= .1204E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P54kS  MANE         2.93    124.00    251.83       .55      5.00    124.00    255.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3462E+02 EXCESS= .0000E+00 OUTFLOW= .3464E+02 BASIN STORAGE= .1180E-09 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P54kS  MANE         2.94    124.00    253.08       .54      5.00    124.00    255.00         .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3419E+02 EXCESS= .0000E+00 OUTFLOW= .3420E+02 BASIN STORAGE= .1209E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P54kS  MANE         2.90    124.00    256.91       .53      5.00    124.00    260.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3329E+02 EXCESS= .0000E+00 OUTFLOW= .3331E+02 BASIN STORAGE= .1172E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P54kS  MANE         2.95    124.00    268.25       .47      5.00    124.00    270.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2954E+02 EXCESS= .0000E+00 OUTFLOW= .2955E+02 BASIN STORAGE= .1224E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56kS  MANE         3.40    303.00    254.56       .35      5.00    303.00    255.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8328E+02 EXCESS= .0000E+00 OUTFLOW= .8331E+02 BASIN STORAGE= .5930E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P56kS  MANE         3.40    303.00    254.74       .35      5.00    303.00    255.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8300E+02 EXCESS= .0000E+00 OUTFLOW= .8303E+02 BASIN STORAGE= .5795E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P56kS  MANE         3.40    303.00    253.69       .35      5.00    303.00    255.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8272E+02 EXCESS= .0000E+00 OUTFLOW= .8278E+02 BASIN STORAGE= .5851E-06 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P56kS  MANE         3.46    303.00    252.34       .34      5.00    303.00    255.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8169E+02 EXCESS= .0000E+00 OUTFLOW= .8174E+02 BASIN STORAGE= .5902E-06 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P56kS  MANE         3.40    303.00    303.02       .30      5.00    303.00    270.00         .30
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .7231E+02 EXCESS= .0000E+00 OUTFLOW= .7234E+02 BASIN STORAGE= .5838E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P601S  MANE         3.29     93.00    235.20       .15      5.00     93.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3695E+02 EXCESS= .0000E+00 OUTFLOW= .3697E+02 BASIN STORAGE= .8159E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P601S  MANE         3.29     93.00    235.42       .15      5.00     93.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3685E+02 EXCESS= .0000E+00 OUTFLOW= .3686E+02 BASIN STORAGE= .8247E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P601S  MANE         3.33     93.00    227.82       .15      5.00     93.00    230.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3712E+02 EXCESS= .0000E+00 OUTFLOW= .3713E+02 BASIN STORAGE= .8177E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P601S  MANE         3.38     93.00    224.12       .16      5.00     93.00    225.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3983E+02 EXCESS= .0000E+00 OUTFLOW= .3984E+02 BASIN STORAGE= .8061E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P601S  MANE         3.36     93.00    224.89       .16      5.00     93.00    225.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4094E+02 EXCESS= .0000E+00 OUTFLOW= .4094E+02 BASIN STORAGE= .8145E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P641S  MANE         2.59    303.00    342.76       .27      5.00    303.00    345.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1005E+03 EXCESS= .0000E+00 OUTFLOW= .1005E+03 BASIN STORAGE= .3182E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P641S  MANE         2.57    303.00    347.26       .27      5.00    303.00    350.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9998E+02 EXCESS= .0000E+00 OUTFLOW= .9999E+02 BASIN STORAGE= .3182E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P641S  MANE         2.49    303.00    376.97       .25      5.00    303.00    380.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9345E+02 EXCESS= .0000E+00 OUTFLOW= .9347E+02 BASIN STORAGE= .3181E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P641S  MANE         2.64    214.00    275.41       .21      5.00    214.00    280.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7686E+02 EXCESS= .0000E+00 OUTFLOW= .7687E+02 BASIN STORAGE= .9454E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P641S  MANE         2.65    213.29    321.36       .16      5.00    213.27    320.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6084E+02 EXCESS= .0000E+00 OUTFLOW= .6085E+02 BASIN STORAGE= .9457E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P72mS  MANE         3.18    308.00    238.88       .20      5.00    308.00    240.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1787E+03 EXCESS= .0000E+00 OUTFLOW= .1787E+03 BASIN STORAGE= .3427E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P72mS  MANE         3.22    308.00    232.73       .20      5.00    308.00    235.00         .20
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1782E+03 EXCESS= .0000E+00 OUTFLOW= .1782E+03 BASIN STORAGE= .3426E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P72mS  MANE         3.18    308.00    231.94       .19      5.00    308.00    235.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1760E+03 EXCESS= .0000E+00 OUTFLOW= .1760E+03 BASIN STORAGE= .3425E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P72mS  MANE         3.25    308.00    227.82       .20      5.00    308.00    230.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1805E+03 EXCESS= .0000E+00 OUTFLOW= .1805E+03 BASIN STORAGE= .1253E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P72mS  MANE         3.23    308.00    221.54       .20      5.00    308.00    225.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1811E+03 EXCESS= .0000E+00 OUTFLOW= .1811E+03 BASIN STORAGE= .1252E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P28oS  MANE          .98    367.00    252.31       .62      5.00    367.00    255.00         .62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9041E+02 EXCESS= .0000E+00 OUTFLOW= .9041E+02 BASIN STORAGE=-.1012E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P28oS  MANE          .98    367.00    257.40       .62      5.00    367.00    260.00         .62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9003E+02 EXCESS= .0000E+00 OUTFLOW= .9004E+02 BASIN STORAGE=-.1011E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P28oS  MANE          .99    367.00    262.73       .61      5.00    367.00    265.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8860E+02 EXCESS= .0000E+00 OUTFLOW= .8860E+02 BASIN STORAGE=-.1011E-02 PERCENT ERROR=

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P28oS  MANE         1.04    367.00    272.19       .59      5.00    367.00    275.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8568E+02 EXCESS= .0000E+00 OUTFLOW= .8568E+02 BASIN STORAGE=-.1012E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P28oS  MANE          .98    338.57    306.77       .51      5.00    338.50    305.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7433E+02 EXCESS= .0000E+00 OUTFLOW= .7433E+02 BASIN STORAGE=-.1011E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P32oS  MANE         1.07    160.00    242.62       .21      5.00    160.00    245.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4870E+02 EXCESS= .0000E+00 OUTFLOW= .4870E+02 BASIN STORAGE= .3289E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P32oS  MANE         1.08    160.00    242.77       .21      5.00    160.00    245.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4852E+02 EXCESS= .0000E+00 OUTFLOW= .4853E+02 BASIN STORAGE= .3289E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P32oS  MANE         1.02    160.00    248.03       .21      5.00    160.00    250.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4843E+02 EXCESS= .0000E+00 OUTFLOW= .4843E+02 BASIN STORAGE= .3289E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P32oS  MANE         1.06    160.00    252.68       .22      5.00    160.00    255.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4895E+02 EXCESS= .0000E+00 OUTFLOW= .4895E+02 BASIN STORAGE= .3292E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P32oS  MANE         1.07    160.00    267.58       .20      5.00    160.00    270.00         .20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4589E+02 EXCESS= .0000E+00 OUTFLOW= .4589E+02 BASIN STORAGE= .3289E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P32pW  MANE         1.16    379.00    267.73       .42      5.00    379.00    270.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1096E+03 EXCESS= .0000E+00 OUTFLOW= .1096E+03 BASIN STORAGE= .1474E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P32pW  MANE         1.05    379.00    267.88       .42      5.00    379.00    270.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1086E+03 EXCESS= .0000E+00 OUTFLOW= .1086E+03 BASIN STORAGE= .1474E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P32pW  MANE         1.05    379.00    272.21       .37      5.00    379.00    275.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9579E+02 EXCESS= .0000E+00 OUTFLOW= .9580E+02 BASIN STORAGE= .1474E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P32pW  MANE         1.16    379.00    282.48       .32      5.00    379.00    285.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8373E+02 EXCESS= .0000E+00 OUTFLOW= .8373E+02 BASIN STORAGE= .1474E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P32pW  MANE         1.11    288.46    307.04       .22      5.00    288.23    310.00         .22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5723E+02 EXCESS= .0000E+00 OUTFLOW= .5724E+02 BASIN STORAGE= .1474E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P28pS  MANE         1.55    211.00    249.53       .37      5.00    211.00    250.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6155E+02 EXCESS= .0000E+00 OUTFLOW= .6155E+02 BASIN STORAGE=-.1040E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P28pS  MANE         1.38    211.00    248.11       .37      5.00    211.00    250.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6134E+02 EXCESS= .0000E+00 OUTFLOW= .6134E+02 BASIN STORAGE=-.1040E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P28pS  MANE         1.37    211.02    377.69       .37      5.00    211.00    245.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6136E+02 EXCESS= .0000E+00 OUTFLOW= .6136E+02 BASIN STORAGE=-.1041E-02 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P28pS  MANE         1.47    211.00    248.80       .37      5.00    211.00    250.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6154E+02 EXCESS= .0000E+00 OUTFLOW= .6155E+02 BASIN STORAGE=-.1040E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P28pS  MANE         1.43    211.00    252.91       .36      5.00    211.00    255.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5913E+02 EXCESS= .0000E+00 OUTFLOW= .5913E+02 BASIN STORAGE=-.1133E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P32qW  MANE          .72     32.00    266.56       .37      5.00     32.00    270.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1951E+02 EXCESS= .0000E+00 OUTFLOW= .1951E+02 BASIN STORAGE= .1009E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
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P32qW  MANE          .75     32.00    266.81       .37      5.00     32.00    270.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1936E+02 EXCESS= .0000E+00 OUTFLOW= .1936E+02 BASIN STORAGE= .1010E-05 PERCENT ERROR=  .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P32qW  MANE          .77     32.00    271.95       .32      5.00     32.00    275.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1682E+02 EXCESS= .0000E+00 OUTFLOW= .1682E+02 BASIN STORAGE= .1010E-05 PERCENT ERROR=  .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P32qW  MANE          .73     32.00    277.16       .26      5.00     32.00    280.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1391E+02 EXCESS= .0000E+00 OUTFLOW= .1391E+02 BASIN STORAGE= .1009E-05 PERCENT ERROR=  .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P32qW  MANE          .64     32.00    297.07       .18      5.00     32.00    300.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9556E+01 EXCESS= .0000E+00 OUTFLOW= .9556E+01 BASIN STORAGE= .1010E-05 PERCENT ERROR=  .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P36oS  MANE          .58    139.00    236.58       .15      5.00    139.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4936E+02 EXCESS= .0000E+00 OUTFLOW= .4936E+02 BASIN STORAGE= .4384E-10 PERCENT ERROR=  .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P36oS  MANE          .58    139.00    236.24       .15      5.00    139.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4922E+02 EXCESS= .0000E+00 OUTFLOW= .4922E+02 BASIN STORAGE= .4220E-10 PERCENT ERROR=  .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P36oS  MANE          .60    139.00    231.76       .15      5.00    139.00    235.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4930E+02 EXCESS= .0000E+00 OUTFLOW= .4930E+02 BASIN STORAGE= .4467E-10 PERCENT ERROR=  .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P36oS  MANE          .63    139.00    236.87       .16      5.00    139.00    240.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5064E+02 EXCESS= .0000E+00 OUTFLOW= .5064E+02 BASIN STORAGE= .4502E-10 PERCENT ERROR=  .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P36oS  MANE          .63    139.00    236.75       .15      5.00    139.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4930E+02 EXCESS= .0000E+00 OUTFLOW= .4930E+02 BASIN STORAGE= .4180E-10 PERCENT ERROR=  .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P36pW  MANE         1.06    474.00    257.42       .47      5.00    474.00    260.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1718E+03 EXCESS= .0000E+00 OUTFLOW= .1718E+03 BASIN STORAGE= .4561E-05 PERCENT ERROR=  .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P36pW  MANE         1.06    474.00    262.92       .46      5.00    474.00    265.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1700E+03 EXCESS= .0000E+00 OUTFLOW= .1700E+03 BASIN STORAGE= .4560E-05 PERCENT ERROR=  .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P36pW  MANE         1.06    474.00    267.68       .39      5.00    474.00    270.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1455E+03 EXCESS= .0000E+00 OUTFLOW= .1455E+03 BASIN STORAGE= .4559E-05 PERCENT ERROR=  .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P36pW  MANE         1.05    474.00    272.13       .35      5.00    474.00    275.00         .35
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1302E+03 EXCESS= .0000E+00 OUTFLOW= .1302E+03 BASIN STORAGE= .3149E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P36pW  MANE         1.23    417.40    301.56       .28      5.00    417.20    300.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1014E+03 EXCESS= .0000E+00 OUTFLOW= .1014E+03 BASIN STORAGE= .3149E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P40oS  MANE         1.70     70.00    229.06       .07      5.00     70.00    230.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2996E+02 EXCESS= .0000E+00 OUTFLOW= .2996E+02 BASIN STORAGE= .5981E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P40oS  MANE         1.70     70.00    229.30       .07      5.00     70.00    230.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2987E+02 EXCESS= .0000E+00 OUTFLOW= .2988E+02 BASIN STORAGE= .5981E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P40oS  MANE         1.76     70.00    223.75       .07      5.00     70.00    225.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2993E+02 EXCESS= .0000E+00 OUTFLOW= .2993E+02 BASIN STORAGE= .6291E-10 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P40oS  MANE         1.61     70.00    218.64       .08      5.00     70.00    220.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3171E+02 EXCESS= .0000E+00 OUTFLOW= .3171E+02 BASIN STORAGE= .6018E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P40oS  MANE         1.69     70.00    219.20       .08      5.00     70.00    220.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3175E+02 EXCESS= .0000E+00 OUTFLOW= .3175E+02 BASIN STORAGE= .6205E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P40pW  MANE         1.01    785.00    262.51       .55      5.00    785.00    265.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2601E+03 EXCESS= .0000E+00 OUTFLOW= .2601E+03 BASIN STORAGE= .4656E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P40pW  MANE         1.01    785.00    262.72       .55      5.00    785.00    265.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2579E+03 EXCESS= .0000E+00 OUTFLOW= .2579E+03 BASIN STORAGE= .4656E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P40pW  MANE          .99    785.00    267.25       .48      5.00    785.00    270.00         .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2284E+03 EXCESS= .0000E+00 OUTFLOW= .2284E+03 BASIN STORAGE= .4656E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P40pW  MANE         1.05    785.00    277.23       .44      5.00    785.00    280.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2063E+03 EXCESS= .0000E+00 OUTFLOW= .2063E+03 BASIN STORAGE= .3215E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P40pW  MANE         1.09    617.10    298.05       .33      5.00    617.00    300.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1535E+03 EXCESS= .0000E+00 OUTFLOW= .1535E+03 BASIN STORAGE= .3214E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P44oS  MANE         3.31    124.00    244.52       .10      5.00    124.00    245.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4968E+02 EXCESS= .0000E+00 OUTFLOW= .4970E+02 BASIN STORAGE= .3743E-09 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P44oS  MANE        3.31    124.00    244.73       .10      5.00    124.00    245.00        .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4954E+02 EXCESS= .0000E+00 OUTFLOW= .4956E+02 BASIN STORAGE= .3781E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P44oS  MANE        3.38    124.00    237.15       .10      5.00    124.00    240.00        .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4959E+02 EXCESS= .0000E+00 OUTFLOW= .4961E+02 BASIN STORAGE= .3713E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P44oS  MANE        3.27    124.11    435.91       .10      5.00    124.08    435.00        .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5122E+02 EXCESS= .0000E+00 OUTFLOW= .5124E+02 BASIN STORAGE= .3713E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44oS  MANE        3.30    124.00    237.78       .10      5.00    124.00    240.00        .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5022E+02 EXCESS= .0000E+00 OUTFLOW= .5023E+02 BASIN STORAGE= .3636E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44pW  MANE         .74   1220.00    271.52       .64      5.00   1220.00    275.00        .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3780E+03 EXCESS= .0000E+00 OUTFLOW= .3779E+03 BASIN STORAGE= .3344E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P44pW  MANE         .74   1220.00    271.73       .63      5.00   1220.00    275.00        .63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3753E+03 EXCESS= .0000E+00 OUTFLOW= .3753E+03 BASIN STORAGE= .3345E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P44pW  MANE         .71   1220.00    282.04       .58      5.00   1220.00    285.00        .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3413E+03 EXCESS= .0000E+00 OUTFLOW= .3413E+03 BASIN STORAGE= .3148E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P44pW  MANE         .80   1220.00    302.17       .52      5.00   1220.00    305.00        .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3071E+03 EXCESS= .0000E+00 OUTFLOW= .3071E+03 BASIN STORAGE= .2174E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44pW  MANE         .87    863.71    311.28       .38      5.00    863.38    310.00        .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2257E+03 EXCESS= .0000E+00 OUTFLOW= .2257E+03 BASIN STORAGE= .2174E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52mS  MANE        3.83    364.00    254.90       .21      5.00    364.00    255.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1352E+03 EXCESS= .0000E+00 OUTFLOW= .1353E+03 BASIN STORAGE= .3140E-05 PERCENT ERROR=   -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P52mS  MANE        3.82    364.00    255.09       .21      5.00    364.00    260.00        .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1342E+03 EXCESS= .0000E+00 OUTFLOW= .1343E+03 BASIN STORAGE= .3140E-05 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P52mS  MANE        3.89    364.00    253.93       .19      5.00    364.00    255.00        .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1220E+03 EXCESS= .0000E+00 OUTFLOW= .1220E+03 BASIN STORAGE= .2956E-05 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P52mS  MANE         3.80    364.00    400.62       .18      5.00    364.00    400.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1156E+03 EXCESS= .0000E+00 OUTFLOW= .1156E+03 BASIN STORAGE= .2956E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52mS  MANE         3.94    364.00    263.90       .16      5.00    364.00    265.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1056E+03 EXCESS= .0000E+00 OUTFLOW= .1056E+03 BASIN STORAGE= .2956E-05 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P54mS  MANE         3.67    124.00    250.58       .45      5.00    124.00    255.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4000E+02 EXCESS= .0000E+00 OUTFLOW= .4001E+02 BASIN STORAGE= .4047E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P54mS  MANE         3.78    124.00    243.51       .45      5.00    124.00    245.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3987E+02 EXCESS= .0000E+00 OUTFLOW= .3989E+02 BASIN STORAGE= .3900E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P54mS  MANE         3.80    124.00    238.62       .45      5.00    124.00    240.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3971E+02 EXCESS= .0000E+00 OUTFLOW= .3972E+02 BASIN STORAGE= .4007E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P54mS  MANE         3.67    124.00    248.58       .45      5.00    124.00    250.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3946E+02 EXCESS= .0000E+00 OUTFLOW= .3948E+02 BASIN STORAGE= .3986E-09 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P54mS  MANE         3.67    124.00    247.43       .42      5.00    124.00    250.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3679E+02 EXCESS= .0000E+00 OUTFLOW= .3681E+02 BASIN STORAGE= .4085E-09 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52oW  MANE         1.19    517.00    258.05      1.11      5.00    517.00    260.00        1.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1362E+03 EXCESS= .0000E+00 OUTFLOW= .1363E+03 BASIN STORAGE= .2552E-09 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P52oW  MANE         1.19    517.00    258.23      1.10      5.00    517.00    260.00        1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1355E+03 EXCESS= .0000E+00 OUTFLOW= .1355E+03 BASIN STORAGE= .2459E-09 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P52oW  MANE         1.23    517.00    262.68       .97      5.00    517.00    265.00         .97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1186E+03 EXCESS= .0000E+00 OUTFLOW= .1187E+03 BASIN STORAGE= .2499E-09 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P52oW  MANE         1.14    514.99    290.74       .85      5.00    514.97    290.00         .85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1046E+03 EXCESS= .0000E+00 OUTFLOW= .1046E+03 BASIN STORAGE= .2532E-09 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52oW  MANE         1.29    369.14    278.27       .66      5.00    369.06    280.00         .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8082E+02 EXCESS= .0000E+00 OUTFLOW= .8083E+02 BASIN STORAGE= .2559E-09 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56mS  MANE         2.75    433.00    258.16       .41      5.00    433.00    260.00         .41
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1213E+03 EXCESS= .0000E+00 OUTFLOW= .1213E+03 BASIN STORAGE= .5336E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P56mS  MANE         2.75    433.00    255.60       .41      5.00    433.00    260.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1208E+03 EXCESS= .0000E+00 OUTFLOW= .1209E+03 BASIN STORAGE= .5338E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P56mS  MANE         2.73    433.00    257.16       .41      5.00    433.00    260.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1196E+03 EXCESS= .0000E+00 OUTFLOW= .1197E+03 BASIN STORAGE= .5375E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P56mS  MANE         2.77    433.00    262.95       .40      5.00    433.00    265.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1170E+03 EXCESS= .0000E+00 OUTFLOW= .1171E+03 BASIN STORAGE= .5389E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56mS  MANE         2.78    433.00    273.21       .35      5.00    433.00    275.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1014E+03 EXCESS= .0000E+00 OUTFLOW= .1014E+03 BASIN STORAGE= .5397E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P56oW  MANE         1.04    950.00    252.60       .76      5.00    950.00    255.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2739E+03 EXCESS= .0000E+00 OUTFLOW= .2739E+03 BASIN STORAGE= .2210E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P56oW  MANE         1.06    950.00    252.84       .75      5.00    950.00    255.00         .75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2727E+03 EXCESS= .0000E+00 OUTFLOW= .2727E+03 BASIN STORAGE= .2255E-06 PERCENT ERROR=

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P56oW  MANE         1.09    950.00    252.64       .72      5.00    950.00    255.00         .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2605E+03 EXCESS= .0000E+00 OUTFLOW= .2605E+03 BASIN STORAGE= .2253E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P56oW  MANE          .99    950.00    257.41       .69      5.00    950.00    260.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2484E+03 EXCESS= .0000E+00 OUTFLOW= .2484E+03 BASIN STORAGE= .2229E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56oW  MANE         1.04    949.71    281.47       .58      5.00    949.20    280.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2085E+03 EXCESS= .0000E+00 OUTFLOW= .2085E+03 BASIN STORAGE= .2245E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60mS  MANE         3.66    124.00    243.06       .15      5.00    124.00    245.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5012E+02 EXCESS= .0000E+00 OUTFLOW= .5014E+02 BASIN STORAGE= .9872E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P60mS  MANE         3.66    124.00    243.24       .15      5.00    124.00    245.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4998E+02 EXCESS= .0000E+00 OUTFLOW= .5000E+02 BASIN STORAGE= .9915E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P60mS  MANE         3.73    124.00    238.75       .15      5.00    124.00    240.00         .15
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5022E+02 EXCESS= .0000E+00 OUTFLOW= .5023E+02 BASIN STORAGE= .9763E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P60mS  MANE         3.61    124.00    245.50       .16      5.00    124.00    250.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5293E+02 EXCESS= .0000E+00 OUTFLOW= .5295E+02 BASIN STORAGE= .9751E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60mS  MANE         3.69    124.00    250.16       .16      5.00    124.00    255.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5325E+02 EXCESS= .0000E+00 OUTFLOW= .5327E+02 BASIN STORAGE= .9715E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64mS  MANE         3.05    399.00    251.35       .31      5.00    399.00    255.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1599E+03 EXCESS= .0000E+00 OUTFLOW= .1599E+03 BASIN STORAGE= .4107E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P64mS  MANE         3.05    399.00    251.48       .31      5.00    399.00    255.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1594E+03 EXCESS= .0000E+00 OUTFLOW= .1595E+03 BASIN STORAGE= .4107E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P64mS  MANE         3.10    399.00    253.68       .31      5.00    399.00    255.00         .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1568E+03 EXCESS= .0000E+00 OUTFLOW= .1568E+03 BASIN STORAGE= .4107E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P64mS  MANE         3.00    399.00    256.72       .29      5.00    399.00    260.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1471E+03 EXCESS= .0000E+00 OUTFLOW= .1471E+03 BASIN STORAGE= .1221E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64mS  MANE         3.02    399.00    268.33       .26      5.00    399.00    270.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1306E+03 EXCESS= .0000E+00 OUTFLOW= .1306E+03 BASIN STORAGE= .1221E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68mS  MANE         4.65    144.00    240.39       .08      5.00    144.00    245.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6811E+02 EXCESS= .0000E+00 OUTFLOW= .6814E+02 BASIN STORAGE= .2982E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P68mS  MANE         4.65    144.00    240.62       .08      5.00    144.00    245.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6791E+02 EXCESS= .0000E+00 OUTFLOW= .6793E+02 BASIN STORAGE= .3020E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P68mS  MANE         4.68    144.00    234.81       .08      5.00    144.00    235.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6708E+02 EXCESS= .0000E+00 OUTFLOW= .6711E+02 BASIN STORAGE= .3034E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68mS  MANE         4.70    144.00    232.71       .08      5.00    144.00    235.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6760E+02 EXCESS= .0000E+00 OUTFLOW= .6762E+02 BASIN STORAGE= .2998E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68mS  MANE         4.68    144.00    230.64       .08      5.00    144.00    235.00         .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6590E+02 EXCESS= .0000E+00 OUTFLOW= .6593E+02 BASIN STORAGE= .3033E-05 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT72oE  MANE          .92    882.50    361.36       .25      5.00    882.47    360.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2362E+03 EXCESS= .0000E+00 OUTFLOW= .2362E+03 BASIN STORAGE= .6945E-11 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  PT72oE  MANE         1.00    878.70    357.06       .25      5.00    878.65    360.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2336E+03 EXCESS= .0000E+00 OUTFLOW= .2336E+03 BASIN STORAGE= .7302E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
  PT72oE  MANE         1.04    743.47    347.10       .21      5.00    743.34    350.00         .21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1962E+03 EXCESS= .0000E+00 OUTFLOW= .1962E+03 BASIN STORAGE= .7445E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  PT72oE  MANE          .98    625.02    346.11       .17      5.00    624.92    345.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1601E+03 EXCESS= .0000E+00 OUTFLOW= .1601E+03 BASIN STORAGE= .9411E-12 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  PT72oE  MANE         1.10    539.00    306.89       .12      5.00    538.56    310.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1133E+03 EXCESS= .0000E+00 OUTFLOW= .1133E+03 BASIN STORAGE= .9614E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT68oE  MANE          .34   1825.46    360.63       .53      5.00   1825.43    360.00         .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5270E+03 EXCESS= .0000E+00 OUTFLOW= .5269E+03 BASIN STORAGE= .1489E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  PT68oE  MANE          .34   1821.63    360.46       .53      5.00   1821.63    360.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5229E+03 EXCESS= .0000E+00 OUTFLOW= .5228E+03 BASIN STORAGE= .1488E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
  PT68oE  MANE          .42   1686.30    350.15       .47      5.00   1686.30    350.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4623E+03 EXCESS= .0000E+00 OUTFLOW= .4623E+03 BASIN STORAGE= .1489E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  PT68oE  MANE          .33   1562.64    335.20       .39      5.00   1562.49    335.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3835E+03 EXCESS= .0000E+00 OUTFLOW= .3834E+03 BASIN STORAGE= .1491E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  PT68oE  MANE          .29   1241.77    315.55       .28      5.00   1241.20    315.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2715E+03 EXCESS= .0000E+00 OUTFLOW= .2715E+03 BASIN STORAGE= .1490E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  PT60oW  MANE          .87   1761.00    271.85      1.13      5.00   1761.00    275.00        1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4925E+03 EXCESS= .0000E+00 OUTFLOW= .4926E+03 BASIN STORAGE= .5558E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  PT60oW  MANE          .87   1761.00    272.06      1.13      5.00   1761.00    275.00        1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4900E+03 EXCESS= .0000E+00 OUTFLOW= .4901E+03 BASIN STORAGE= .5570E-06 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
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PT60oW  MANE          .90   1761.00    287.15      1.04      5.00   1761.00    290.00        1.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4521E+03 EXCESS= .0000E+00 OUTFLOW= .4521E+03 BASIN STORAGE= .5551E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
PT60oW  MANE         1.00   1694.20    312.49       .94      5.00   1694.17    315.00         .94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4076E+03 EXCESS= .0000E+00 OUTFLOW= .4076E+03 BASIN STORAGE= .5512E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT60oW  MANE         1.00   1250.69    286.66       .73      5.00   1249.84    285.00         .73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3157E+03 EXCESS= .0000E+00 OUTFLOW= .3157E+03 BASIN STORAGE= .5544E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
PT64o  MANE         1.17   4961.41    392.24      1.41      5.00   4959.61    395.00        1.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1578E+04 EXCESS= .0000E+00 OUTFLOW= .1578E+04 BASIN STORAGE= .2792E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
PT64o  MANE         1.05   4951.64    396.36      1.39      5.00   4950.19    395.00        1.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1557E+04 EXCESS= .0000E+00 OUTFLOW= .1557E+04 BASIN STORAGE= .2791E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
PT64o  MANE         1.20   4619.73    356.03      1.14      5.00   4618.44    355.00        1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+04 EXCESS= .0000E+00 OUTFLOW= .1283E+04 BASIN STORAGE= .2792E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
PT64o  MANE         1.15   4080.61    322.77       .94      5.00   4078.10    320.00         .94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+04 EXCESS= .0000E+00 OUTFLOW= .1051E+04 BASIN STORAGE= .1284E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT64o  MANE         1.15   3029.95    316.47       .69      5.00   3029.74    315.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7691E+03 EXCESS= .0000E+00 OUTFLOW= .7691E+03 BASIN STORAGE= .1284E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P36pS  MANE         2.41    139.00    259.94       .14      5.00    139.00    260.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5037E+02 EXCESS= .0000E+00 OUTFLOW= .5038E+02 BASIN STORAGE= .2854E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P36pS  MANE         2.41    139.00    264.99       .14      5.00    139.00    265.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4986E+02 EXCESS= .0000E+00 OUTFLOW= .4987E+02 BASIN STORAGE= .3032E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P36pS  MANE         2.38    139.00    271.45       .12      5.00    139.00    275.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4265E+02 EXCESS= .0000E+00 OUTFLOW= .4266E+02 BASIN STORAGE= .3032E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P36pS  MANE         2.52    139.00    276.74       .10      5.00    139.00    280.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3819E+02 EXCESS= .0000E+00 OUTFLOW= .3819E+02 BASIN STORAGE= .2095E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P36pS  MANE         2.48    122.37    303.33       .08      5.00    122.36    305.00         .08
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2972E+02 EXCESS= .0000E+00 OUTFLOW= .2973E+02 BASIN STORAGE= .2095E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P40qW  MANE         2.22     32.00    224.70       .10      5.00     32.00    225.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1007E+02 EXCESS= .0000E+00 OUTFLOW= .1007E+02 BASIN STORAGE= .9781E-12 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P40qW  MANE         2.22     32.00    224.89       .10      5.00     32.00    225.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1004E+02 EXCESS= .0000E+00 OUTFLOW= .1004E+02 BASIN STORAGE= .9724E-12 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P40qW  MANE         2.16     32.01    379.26       .10      5.00     32.00    220.00         .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1041E+02 EXCESS= .0000E+00 OUTFLOW= .1042E+02 BASIN STORAGE= .9798E-12 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P40qW  MANE         2.25     32.00    216.22       .11      5.00     32.00    220.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1124E+02 EXCESS= .0000E+00 OUTFLOW= .1125E+02 BASIN STORAGE= .9955E-12 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P40qW  MANE         2.28     32.00    215.53       .12      5.00     32.00    220.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1174E+02 EXCESS= .0000E+00 OUTFLOW= .1174E+02 BASIN STORAGE= .1016E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P44pS  MANE         2.17    124.00    275.98       .06      5.00    124.00    280.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3842E+02 EXCESS= .0000E+00 OUTFLOW= .3842E+02 BASIN STORAGE= .1001E-05 PERCENT ERROR=

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P44pS  MANE         2.30    124.00    276.72       .06      5.00    124.00    280.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3815E+02 EXCESS= .0000E+00 OUTFLOW= .3815E+02 BASIN STORAGE= .1001E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P44pS  MANE         2.25    124.00    284.55       .06      5.00    124.00    285.00         .06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3469E+02 EXCESS= .0000E+00 OUTFLOW= .3469E+02 BASIN STORAGE= .1001E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P44pS  MANE         2.29    124.00    306.71       .05      5.00    124.00    310.00         .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3121E+02 EXCESS= .0000E+00 OUTFLOW= .3122E+02 BASIN STORAGE= .7342E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P44pS  MANE         2.44     87.75    313.43       .04      5.00     87.71    315.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2294E+02 EXCESS= .0000E+00 OUTFLOW= .2295E+02 BASIN STORAGE= .7342E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64qW  MANE         1.83     68.00    229.37       .23      5.00     68.00    230.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1856E+02 EXCESS= .0000E+00 OUTFLOW= .1856E+02 BASIN STORAGE= .2749E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P64qW  MANE         1.83     68.00    229.58       .23      5.00     68.00    230.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1851E+02 EXCESS= .0000E+00 OUTFLOW= .1851E+02 BASIN STORAGE= .2890E-11 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P64qW  MANE         1.79     68.00    224.72       .24      5.00     68.00    225.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1920E+02 EXCESS= .0000E+00 OUTFLOW= .1921E+02 BASIN STORAGE= .2746E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P64qW  MANE         1.84     68.00    230.20       .25      5.00     68.00    235.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2023E+02 EXCESS= .0000E+00 OUTFLOW= .2024E+02 BASIN STORAGE= .1478E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P64qW  MANE         1.94     68.00    230.21       .26      5.00     68.00    235.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2063E+02 EXCESS= .0000E+00 OUTFLOW= .2064E+02 BASIN STORAGE= .1509E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P68qW  MANE         2.35     68.01    379.28       .24      5.00     68.00    230.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2261E+02 EXCESS= .0000E+00 OUTFLOW= .2262E+02 BASIN STORAGE= .1947E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P68qW  MANE         2.35     68.01    379.50       .24      5.00     68.00    230.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2256E+02 EXCESS= .0000E+00 OUTFLOW= .2257E+02 BASIN STORAGE= .2004E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P68qW  MANE         2.51     68.00    220.72       .24      5.00     68.00    225.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2321E+02 EXCESS= .0000E+00 OUTFLOW= .2321E+02 BASIN STORAGE= .1855E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P68qW  MANE         2.37     68.00    220.68       .26      5.00     68.00    225.00         .26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2500E+02 EXCESS= .0000E+00 OUTFLOW= .2501E+02 BASIN STORAGE= .1332E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P68qW  MANE         2.50     68.00    220.41       .27      5.00     68.00    225.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2597E+02 EXCESS= .0000E+00 OUTFLOW= .2598E+02 BASIN STORAGE= .1384E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P72oS  MANE         1.70    433.00    239.59       .25      5.00    433.00    240.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2375E+03 EXCESS= .0000E+00 OUTFLOW= .2375E+03 BASIN STORAGE= .1807E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P72oS  MANE         1.71    433.00    239.83       .25      5.00    433.00    240.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2369E+03 EXCESS= .0000E+00 OUTFLOW= .2369E+03 BASIN STORAGE= .1806E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P72oS  MANE         1.57    433.00    238.78       .25      5.00    433.00    240.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2341E+03 EXCESS= .0000E+00 OUTFLOW= .2341E+03 BASIN STORAGE= .1807E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P72oS  MANE         1.61    433.00    238.82       .25      5.00    433.00    240.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2367E+03 EXCESS= .0000E+00 OUTFLOW= .2367E+03 BASIN STORAGE= .6637E-05 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P72oS  MANE          1.64    433.00    244.40       .25      5.00    433.00    245.00        .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2341E+03 EXCESS= .0000E+00 OUTFLOW= .2341E+03 BASIN STORAGE= .6646E-05 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P84mS  MANE          .91     249.00    241.83      2.68      5.00    249.00    245.00       2.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4185E+02 EXCESS= .0000E+00 OUTFLOW= .4186E+02 BASIN STORAGE= .9732E-13 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P84mS  MANE          .91     249.00    242.01      2.67      5.00    249.00    245.00       2.67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4169E+02 EXCESS= .0000E+00 OUTFLOW= .4170E+02 BASIN STORAGE= .9958E-13 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P84mS  MANE          .91     249.00    246.82      2.83      5.00    249.00    250.00       2.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4426E+02 EXCESS= .0000E+00 OUTFLOW= .4427E+02 BASIN STORAGE= .9952E-13 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P84mS  MANE          1.01    249.00    252.77      2.87      5.00    249.00    255.00       2.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4479E+02 EXCESS= .0000E+00 OUTFLOW= .4479E+02 BASIN STORAGE= .9899E-13 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P84mS  MANE          1.00    210.01    266.88      2.57      5.00    209.60    265.00       2.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4012E+02 EXCESS= .0000E+00 OUTFLOW= .4012E+02 BASIN STORAGE= .1000E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76mS  MANE          5.00     32.00    514.25       .05      5.00     32.00    510.00        .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1678E+02 EXCESS= .0000E+00 OUTFLOW= .1678E+02 BASIN STORAGE= .3300E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P76mS  MANE          5.00     32.00    514.48       .05      5.00     32.00    510.00        .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1673E+02 EXCESS= .0000E+00 OUTFLOW= .1673E+02 BASIN STORAGE= .3301E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P76mS  MANE          5.00     32.00    507.92       .05      5.00     32.00    505.00        .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1646E+02 EXCESS= .0000E+00 OUTFLOW= .1647E+02 BASIN STORAGE= .3301E-05 PERCENT ERROR=   -.1

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P76mS  MANE          5.00     32.00    240.04       .05      5.00     32.00    245.00        .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1659E+02 EXCESS= .0000E+00 OUTFLOW= .1659E+02 BASIN STORAGE= .4197E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76mS  MANE          5.00     32.01    484.49       .05      5.00     32.00    480.00        .05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1645E+02 EXCESS= .0000E+00 OUTFLOW= .1646E+02 BASIN STORAGE= .4214E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76oS  MANE          2.05    229.00    337.68       .25      5.00    229.00    340.00        .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1049E+03 EXCESS= .0000E+00 OUTFLOW= .1049E+03 BASIN STORAGE= .1831E-05 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P76oS  MANE          2.04    229.00    288.69       .25      5.00    229.00    290.00        .25
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1046E+03 EXCESS= .0000E+00 OUTFLOW= .1046E+03 BASIN STORAGE= .1831E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P76oS  MANE         1.97    229.00    307.22       .25      5.00    229.00    335.00         .25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1039E+03 EXCESS= .0000E+00 OUTFLOW= .1039E+03 BASIN STORAGE= .1831E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P76oS  MANE         2.10    229.00    364.12       .24      5.00    229.00    365.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1031E+03 EXCESS= .0000E+00 OUTFLOW= .1031E+03 BASIN STORAGE= .2365E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P76oS  MANE         2.01    229.00    338.07       .23      5.00    229.00    340.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9878E+02 EXCESS= .0000E+00 OUTFLOW= .9879E+02 BASIN STORAGE= .2376E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P80oS  MANE         3.02    249.00    236.30       .41      5.00    249.00    240.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1436E+03 EXCESS= .0000E+00 OUTFLOW= .1436E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P80oS  MANE         2.90    249.00    235.92       .41      5.00    249.00    240.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1432E+03 EXCESS= .0000E+00 OUTFLOW= .1432E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P80oS  MANE         3.02    249.00    232.00       .40      5.00    249.00    235.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1411E+03 EXCESS= .0000E+00 OUTFLOW= .1411E+03 BASIN STORAGE= .1164E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P80oS  MANE         2.99    249.00    231.22       .41      5.00    249.00    235.00         .41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1422E+03 EXCESS= .0000E+00 OUTFLOW= .1422E+03 BASIN STORAGE= .5370E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P80oS  MANE         2.88    249.00    231.78       .40      5.00    249.00    235.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1399E+03 EXCESS= .0000E+00 OUTFLOW= .1399E+03 BASIN STORAGE= .5002E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P80pS  MANE         3.03    249.00    238.63       .34      5.00    249.00    240.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1503E+03 EXCESS= .0000E+00 OUTFLOW= .1503E+03 BASIN STORAGE= .1361E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P80pS  MANE         3.02    249.00    238.74       .34      5.00    249.00    240.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1498E+03 EXCESS= .0000E+00 OUTFLOW= .1498E+03 BASIN STORAGE= .1361E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P80pS  MANE         3.14    249.00    231.78       .33      5.00    249.00    235.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1478E+03 EXCESS= .0000E+00 OUTFLOW= .1478E+03 BASIN STORAGE= .1369E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P80pS  MANE         3.01    249.00    233.55       .34      5.00    249.00    235.00         .34
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1496E+03 EXCESS= .0000E+00 OUTFLOW= .1496E+03 BASIN STORAGE= .2651E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P80pS  MANE          3.09    249.00    227.70       .33      5.00    249.00    230.00        .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1482E+03 EXCESS= .0000E+00 OUTFLOW= .1482E+03 BASIN STORAGE= .2668E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P28qS  MANE          1.25    308.00    243.04      1.72      5.00    308.00    245.00       1.72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7523E+02 EXCESS= .0000E+00 OUTFLOW= .7524E+02 BASIN STORAGE=-.8603E-03 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P28qS  MANE          1.30    308.00    243.47      1.71      5.00    308.00    245.00       1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7499E+02 EXCESS= .0000E+00 OUTFLOW= .7499E+02 BASIN STORAGE=-.8603E-03 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P28qS  MANE          1.14    308.00    243.11      1.74      5.00    308.00    245.00       1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7610E+02 EXCESS= .0000E+00 OUTFLOW= .7611E+02 BASIN STORAGE=-.8603E-03 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P28qS  MANE          1.21    308.00    247.79      1.75      5.00    308.00    250.00       1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7669E+02 EXCESS= .0000E+00 OUTFLOW= .7669E+02 BASIN STORAGE=-.8603E-03 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P28qS  MANE          1.19    308.00    257.56      1.66      5.00    308.00    260.00       1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7276E+02 EXCESS= .0000E+00 OUTFLOW= .7276E+02 BASIN STORAGE=-.8603E-03 PERCENT ERROR=

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P32sW  MANE           .84     48.00    377.95       .15      5.00     48.00    275.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1036E+02 EXCESS= .0000E+00 OUTFLOW= .1035E+02 BASIN STORAGE= .1174E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P32sW  MANE           .84     48.00    377.95       .15      5.00     48.00    275.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1034E+02 EXCESS= .0000E+00 OUTFLOW= .1034E+02 BASIN STORAGE= .1174E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P32sW  MANE           .84     48.00    382.95       .15      5.00     48.00    280.00        .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1034E+02 EXCESS= .0000E+00 OUTFLOW= .1033E+02 BASIN STORAGE= .1174E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P32sW  MANE           .84     48.00    382.94       .14      5.00     48.00    285.00        .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1000E+02 EXCESS= .0000E+00 OUTFLOW= .1000E+02 BASIN STORAGE= .1174E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P32sW  MANE          1.95     48.00    288.95       .13      5.00     48.00    290.00        .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9169E+01 EXCESS= .0000E+00 OUTFLOW= .9176E+01 BASIN STORAGE= .8517E-05 PERCENT ERROR=   -.1

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P36qS  MANE           .89    295.00    247.24      1.14      5.00    295.00    250.00       1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9506E+02 EXCESS= .0000E+00 OUTFLOW= .9506E+02 BASIN STORAGE= .1298E-05 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P36qS  MANE          .89    295.00    247.46      1.13      5.00    295.00    250.00        1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9413E+02 EXCESS= .0000E+00 OUTFLOW= .9413E+02 BASIN STORAGE= .1222E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P36qS  MANE         1.01    295.00    247.08      1.00      5.00    295.00    250.00        1.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8319E+02 EXCESS= .0000E+00 OUTFLOW= .8319E+02 BASIN STORAGE= .1222E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P36qS  MANE          .95    295.00    257.32       .89      5.00    295.00    260.00         .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7376E+02 EXCESS= .0000E+00 OUTFLOW= .7376E+02 BASIN STORAGE= .8963E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P36qS  MANE          .91    256.47    281.70       .67      5.00    256.14    285.00         .67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5568E+02 EXCESS= .0000E+00 OUTFLOW= .5568E+02 BASIN STORAGE= .8967E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P40sW  MANE         1.92     68.00    230.72       .13      5.00     68.00    235.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1977E+02 EXCESS= .0000E+00 OUTFLOW= .1977E+02 BASIN STORAGE= .5089E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P40sW  MANE         1.92     68.00    234.73       .13      5.00     68.00    235.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1971E+02 EXCESS= .0000E+00 OUTFLOW= .1972E+02 BASIN STORAGE= .4522E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P40sW  MANE         1.91     68.00    230.66       .13      5.00     68.00    235.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2045E+02 EXCESS= .0000E+00 OUTFLOW= .2045E+02 BASIN STORAGE= .5127E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P40sW  MANE         1.94     68.00    229.21       .14      5.00     68.00    230.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2114E+02 EXCESS= .0000E+00 OUTFLOW= .2114E+02 BASIN STORAGE= .2519E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P40sW  MANE         1.99     68.00    229.71       .14      5.00     68.00    230.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2087E+02 EXCESS= .0000E+00 OUTFLOW= .2088E+02 BASIN STORAGE= .2607E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44qS  MANE         1.28    201.00    238.42       .49      5.00    201.00    240.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6702E+02 EXCESS= .0000E+00 OUTFLOW= .6702E+02 BASIN STORAGE= .7013E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P44qS  MANE         1.28    201.00    238.64       .49      5.00    201.00    240.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6669E+02 EXCESS= .0000E+00 OUTFLOW= .6670E+02 BASIN STORAGE= .7013E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P44qS  MANE         1.44    201.00    239.22       .47      5.00    201.00    240.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6508E+02 EXCESS= .0000E+00 OUTFLOW= .6508E+02 BASIN STORAGE= .7013E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
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P44qS  MANE        1.30    201.00    238.55       .48      5.00    201.00    240.00        .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6513E+02 EXCESS= .0000E+00 OUTFLOW= .6513E+02 BASIN STORAGE= .4843E-06 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P44qS  MANE        1.39    201.00    243.13       .46      5.00    201.00    245.00        .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6294E+02 EXCESS= .0000E+00 OUTFLOW= .6294E+02 BASIN STORAGE= .4558E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =       .01
P52qS  MANE         .83    191.00    247.41      1.77      5.00    191.00    250.00       1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3691E+02 EXCESS= .0000E+00 OUTFLOW= .3691E+02 BASIN STORAGE= .3349E-13 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =       .50
P52qS  MANE         .84    191.00    246.77      1.77      5.00    191.00    250.00       1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3677E+02 EXCESS= .0000E+00 OUTFLOW= .3677E+02 BASIN STORAGE= .3331E-13 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      2.80
P52qS  MANE         .83    191.00    247.13      1.85      5.00    191.00    250.00       1.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3838E+02 EXCESS= .0000E+00 OUTFLOW= .3838E+02 BASIN STORAGE= .3372E-13 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =     16.00
P52qS  MANE         .76    191.00    251.86      1.85      5.00    191.00    255.00       1.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3847E+02 EXCESS= .0000E+00 OUTFLOW= .3847E+02 BASIN STORAGE= .3336E-13 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =     90.00
P52qS  MANE         .85    191.00    267.38      1.68      5.00    191.00    270.00       1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3488E+02 EXCESS= .0000E+00 OUTFLOW= .3488E+02 BASIN STORAGE= .3412E-13 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =       .01
P56qS  MANE        1.81     68.00    239.70       .42      5.00     68.00    240.00        .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1672E+02 EXCESS= .0000E+00 OUTFLOW= .1672E+02 BASIN STORAGE= .7478E-12 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =       .50
P56qS  MANE        1.80     68.00    239.88       .42      5.00     68.00    240.00        .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1667E+02 EXCESS= .0000E+00 OUTFLOW= .1667E+02 BASIN STORAGE= .7448E-12 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =      2.80
P56qS  MANE        1.91     68.00    239.14       .43      5.00     68.00    240.00        .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1705E+02 EXCESS= .0000E+00 OUTFLOW= .1705E+02 BASIN STORAGE= .7578E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =     16.00
P56qS  MANE        1.79     68.00    239.52       .43      5.00     68.00    240.00        .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1713E+02 EXCESS= .0000E+00 OUTFLOW= .1713E+02 BASIN STORAGE= .7562E-12 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =     90.00
P56qS  MANE        1.75     68.00    325.46       .40      5.00     68.00    325.00        .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1601E+02 EXCESS= .0000E+00 OUTFLOW= .1601E+02 BASIN STORAGE= .7444E-12 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =       .01
P60qS  MANE        1.30    281.00    253.29       .74      5.00    281.00    255.00        .74
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4369E+02 EXCESS= .0000E+00 OUTFLOW= .4370E+02 BASIN STORAGE= .5134E-12 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P60qS  MANE         1.30    281.00    253.45       .74      5.00    281.00    255.00         .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4350E+02 EXCESS= .0000E+00 OUTFLOW= .4351E+02 BASIN STORAGE= .5244E-12 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P60qS  MANE         1.32    281.00    263.18       .72      5.00    281.00    265.00         .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4231E+02 EXCESS= .0000E+00 OUTFLOW= .4232E+02 BASIN STORAGE= .5116E-12 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P60qS  MANE         1.26    263.09    287.39       .61      5.00    262.21    285.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3569E+02 EXCESS= .0000E+00 OUTFLOW= .3570E+02 BASIN STORAGE= .5037E-12 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60qS  MANE         1.50    145.82    290.98       .38      5.00    145.80    290.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2241E+02 EXCESS= .0000E+00 OUTFLOW= .2242E+02 BASIN STORAGE= .5165E-12 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P60sW  MANE          .73    217.00    237.00       .52      5.00    217.00    240.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5193E+02 EXCESS= .0000E+00 OUTFLOW= .5193E+02 BASIN STORAGE= .8132E-12 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P60sW  MANE          .73    217.00    236.47       .52      5.00    217.00    240.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5176E+02 EXCESS= .0000E+00 OUTFLOW= .5176E+02 BASIN STORAGE= .8304E-12 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P60sW  MANE          .70    217.00    237.10       .53      5.00    217.00    240.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5276E+02 EXCESS= .0000E+00 OUTFLOW= .5276E+02 BASIN STORAGE= .8100E-12 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P60sW  MANE          .61    217.00    236.81       .52      5.00    217.00    240.00         .52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5161E+02 EXCESS= .0000E+00 OUTFLOW= .5161E+02 BASIN STORAGE= .7988E-12 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P60sW  MANE          .62    217.00    246.58       .48      5.00    217.00    250.00         .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4821E+02 EXCESS= .0000E+00 OUTFLOW= .4821E+02 BASIN STORAGE= .8177E-12 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72qS1  MANE         1.38    433.00    243.64      1.16      5.00    433.00    245.00        1.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1933E+03 EXCESS= .0000E+00 OUTFLOW= .1933E+03 BASIN STORAGE= .1044E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P72qS1  MANE         1.37    433.00    243.88      1.15      5.00    433.00    245.00        1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1928E+03 EXCESS= .0000E+00 OUTFLOW= .1928E+03 BASIN STORAGE= .1044E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72qS1  MANE         1.41    433.00    244.02      1.15      5.00    433.00    245.00        1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1921E+03 EXCESS= .0000E+00 OUTFLOW= .1921E+03 BASIN STORAGE= .1044E-04 PERCENT ERROR=    .0
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Metro ADMS/P 100-Year, 6-Hour Model

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FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  P72qS1  MANE        1.41    433.00    243.05      1.17      5.00    433.00    245.00        1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1950E+03 EXCESS= .0000E+00 OUTFLOW= .1950E+03 BASIN STORAGE= .3843E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P72qS1  MANE        1.42    433.00    254.09      1.15      5.00    433.00    255.00        1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1927E+03 EXCESS= .0000E+00 OUTFLOW= .1927E+03 BASIN STORAGE= .3849E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P72qS2  MANE        1.47    229.00    352.75       .61      5.00    229.00    245.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1022E+03 EXCESS= .0000E+00 OUTFLOW= .1022E+03 BASIN STORAGE= .6390E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  P72qS2  MANE        1.47    229.00    244.14       .61      5.00    229.00    245.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1020E+03 EXCESS= .0000E+00 OUTFLOW= .1020E+03 BASIN STORAGE= .6389E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
  P72qS2  MANE        1.49    229.00    243.80       .61      5.00    229.00    245.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1016E+03 EXCESS= .0000E+00 OUTFLOW= .1016E+03 BASIN STORAGE= .6389E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  P72qS2  MANE        1.55    229.00    243.81       .62      5.00    229.00    245.00         .62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1031E+03 EXCESS= .0000E+00 OUTFLOW= .1031E+03 BASIN STORAGE= .2356E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P72qS2  MANE        1.55    229.00    253.88       .61      5.00    229.00    255.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1019E+03 EXCESS= .0000E+00 OUTFLOW= .1019E+03 BASIN STORAGE= .2356E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P76qS  MANE        1.10    229.00    233.21       .19      5.00    229.00    235.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1136E+03 EXCESS= .0000E+00 OUTFLOW= .1136E+03 BASIN STORAGE= .1007E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P76qS  MANE        1.10    229.00    233.19       .19      5.00    229.00    235.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1133E+03 EXCESS= .0000E+00 OUTFLOW= .1133E+03 BASIN STORAGE= .1007E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P76qS  MANE        1.19    229.00    228.44       .18      5.00    229.00    230.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1129E+03 EXCESS= .0000E+00 OUTFLOW= .1129E+03 BASIN STORAGE= .1007E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P76qS  MANE        1.26    229.00    228.03       .19      5.00    229.00    230.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1132E+03 EXCESS= .0000E+00 OUTFLOW= .1132E+03 BASIN STORAGE= .1315E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76qS  MANE        1.19    229.00    232.59       .18      5.00    229.00    235.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1099E+03 EXCESS= .0000E+00 OUTFLOW= .1099E+03 BASIN STORAGE= .1315E-06 PERCENT ERROR=    .0
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Metro ADMS/P 100-Year, 6-Hour Model

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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P80qS  MANE         1.25    364.00    237.83       .28      5.00    364.00    240.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2081E+03 EXCESS= .0000E+00 OUTFLOW= .2081E+03 BASIN STORAGE= .5905E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P80qS  MANE         1.25    364.00    238.05       .27      5.00    364.00    240.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2075E+03 EXCESS= .0000E+00 OUTFLOW= .2075E+03 BASIN STORAGE= .5923E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P80qS  MANE         1.19    364.00    238.22       .27      5.00    364.00    240.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2054E+03 EXCESS= .0000E+00 OUTFLOW= .2054E+03 BASIN STORAGE= .5920E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P80qS  MANE         1.19    364.00    520.37       .27      5.00    364.00    520.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2070E+03 EXCESS= .0000E+00 OUTFLOW= .2070E+03 BASIN STORAGE= .1358E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P80qS  MANE         1.28    364.00    237.79       .27      5.00    364.00    240.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2033E+03 EXCESS= .0000E+00 OUTFLOW= .2033E+03 BASIN STORAGE= .1329E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52sS  MANE          .96    191.00    237.01      1.36      5.00    191.00    240.00        1.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4780E+02 EXCESS= .0000E+00 OUTFLOW= .4780E+02 BASIN STORAGE= .2974E-12 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P52sS  MANE          .88    191.00    237.63      1.35      5.00    191.00    240.00        1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4766E+02 EXCESS= .0000E+00 OUTFLOW= .4766E+02 BASIN STORAGE= .2954E-12 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P52sS  MANE          .97    191.00    232.20      1.41      5.00    191.00    235.00        1.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4951E+02 EXCESS= .0000E+00 OUTFLOW= .4951E+02 BASIN STORAGE= .2993E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P52sS  MANE          .89    191.00    236.96      1.41      5.00    191.00    240.00        1.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4977E+02 EXCESS= .0000E+00 OUTFLOW= .4977E+02 BASIN STORAGE= .2959E-12 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52sS  MANE          .98    191.00    242.40      1.39      5.00    191.00    245.00        1.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4896E+02 EXCESS= .0000E+00 OUTFLOW= .4896E+02 BASIN STORAGE= .3024E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56sS  MANE         1.52    201.00    243.68       .69      5.00    201.00    245.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4704E+02 EXCESS= .0000E+00 OUTFLOW= .4705E+02 BASIN STORAGE= .5497E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P56sS  MANE         1.52    201.00    243.89       .69      5.00    201.00    245.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4685E+02 EXCESS= .0000E+00 OUTFLOW= .4687E+02 BASIN STORAGE= .5468E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P56sS  MANE         1.64    201.00    239.70       .71      5.00    201.00    240.00         .71
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4818E+02 EXCESS= .0000E+00 OUTFLOW= .4819E+02 BASIN STORAGE= .5569E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P56sS  MANE         1.60    201.00    244.37       .71      5.00    201.00    245.00         .71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4793E+02 EXCESS= .0000E+00 OUTFLOW= .4794E+02 BASIN STORAGE= .5570E-11 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56sS  MANE         1.53    201.00    248.84       .67      5.00    201.00    250.00         .67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4555E+02 EXCESS= .0000E+00 OUTFLOW= .4555E+02 BASIN STORAGE= .5464E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64sS  MANE         1.22    327.00    237.96       .61      5.00    327.00    240.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8268E+02 EXCESS= .0000E+00 OUTFLOW= .8269E+02 BASIN STORAGE= .5234E-11 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P64sS  MANE         1.20    327.00    238.12       .61      5.00    327.00    240.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8238E+02 EXCESS= .0000E+00 OUTFLOW= .8239E+02 BASIN STORAGE= .5352E-11 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P64sS  MANE         1.17    327.00    232.75       .62      5.00    327.00    235.00         .62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8364E+02 EXCESS= .0000E+00 OUTFLOW= .8365E+02 BASIN STORAGE= .5220E-11 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P64sS  MANE         1.19    327.00    238.12       .61      5.00    327.00    240.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8210E+02 EXCESS= .0000E+00 OUTFLOW= .8211E+02 BASIN STORAGE= .5147E-11 PERCENT ERROR=

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64sS  MANE         1.16    327.00    243.49       .57      5.00    327.00    245.00         .57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7765E+02 EXCESS= .0000E+00 OUTFLOW= .7766E+02 BASIN STORAGE= .5273E-11 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68sS  MANE         1.47    124.00    238.08       .19      5.00    124.00    240.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3129E+02 EXCESS= .0000E+00 OUTFLOW= .3130E+02 BASIN STORAGE= .5596E-12 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P68sS  MANE         1.64    124.00    238.84       .19      5.00    124.00    240.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3119E+02 EXCESS= .0000E+00 OUTFLOW= .3120E+02 BASIN STORAGE= .5541E-12 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P68sS  MANE         1.48    124.00    238.16       .19      5.00    124.00    240.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3157E+02 EXCESS= .0000E+00 OUTFLOW= .3158E+02 BASIN STORAGE= .5752E-12 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68sS  MANE         1.60    124.00    243.91       .19      5.00    124.00    245.00         .19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3094E+02 EXCESS= .0000E+00 OUTFLOW= .3094E+02 BASIN STORAGE= .5483E-12 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68sS  MANE         1.55    124.00    253.49       .18      5.00    124.00    255.00         .18
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2920E+02 EXCESS= .0000E+00 OUTFLOW= .2920E+02 BASIN STORAGE= .5707E-12 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72sS1  MANE         1.10    433.00    237.64       .80      5.00    433.00    240.00         .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1996E+03 EXCESS= .0000E+00 OUTFLOW= .1996E+03 BASIN STORAGE= .8183E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P72sS1  MANE         1.10    433.00    237.80       .80      5.00    433.00    240.00         .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1991E+03 EXCESS= .0000E+00 OUTFLOW= .1991E+03 BASIN STORAGE= .8181E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72sS1  MANE         1.08    433.00    237.47       .79      5.00    433.00    240.00         .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1981E+03 EXCESS= .0000E+00 OUTFLOW= .1981E+03 BASIN STORAGE= .8182E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P72sS1  MANE         1.06    433.00    237.93       .81      5.00    433.00    240.00         .81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2012E+03 EXCESS= .0000E+00 OUTFLOW= .2012E+03 BASIN STORAGE= .3021E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72sS1  MANE         1.14    433.00    238.05       .80      5.00    433.00    240.00         .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1996E+03 EXCESS= .0000E+00 OUTFLOW= .1996E+03 BASIN STORAGE= .3023E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72sS2  MANE         1.29    229.00    238.39       .42      5.00    229.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1056E+03 EXCESS= .0000E+00 OUTFLOW= .1056E+03 BASIN STORAGE= .5009E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P72sS2  MANE         1.29    229.00    238.64       .42      5.00    229.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1053E+03 EXCESS= .0000E+00 OUTFLOW= .1053E+03 BASIN STORAGE= .5007E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72sS2  MANE         1.31    229.00    238.01       .42      5.00    229.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1048E+03 EXCESS= .0000E+00 OUTFLOW= .1048E+03 BASIN STORAGE= .5009E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P72sS2  MANE         1.27    229.00    237.89       .43      5.00    229.00    240.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1064E+03 EXCESS= .0000E+00 OUTFLOW= .1064E+03 BASIN STORAGE= .1849E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72sS2  MANE         1.26    229.00    238.60       .42      5.00    229.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1055E+03 EXCESS= .0000E+00 OUTFLOW= .1055E+03 BASIN STORAGE= .1851E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P76sS  MANE         1.57    204.00    228.81       .15      5.00    204.00    230.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1075E+03 EXCESS= .0000E+00 OUTFLOW= .1075E+03 BASIN STORAGE= .1657E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P76sS  MANE         1.54    204.00    229.10       .15      5.00    204.00    230.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1072E+03 EXCESS= .0000E+00 OUTFLOW= .1072E+03 BASIN STORAGE= .1657E-05 PERCENT ERROR=    .0
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Metro ADMS/P 100-Year, 6-Hour Model

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FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P76sS  MANE         1.63    204.00    224.62       .15      5.00    204.00    225.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1068E+03 EXCESS= .0000E+00 OUTFLOW= .1068E+03 BASIN STORAGE= .1656E-05 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P76sS  MANE         1.60    204.00    224.45       .15      5.00    204.00    225.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1083E+03 EXCESS= .0000E+00 OUTFLOW= .1083E+03 BASIN STORAGE= .5749E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76sS  MANE         1.51    204.00    501.97       .15      5.00    204.00    500.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1062E+03 EXCESS= .0000E+00 OUTFLOW= .1062E+03 BASIN STORAGE= .5752E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P52tS  MANE         1.60    281.00    243.33      1.25      5.00    281.00    245.00        1.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6419E+02 EXCESS= .0000E+00 OUTFLOW= .6421E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P52tS  MANE         1.69    281.00    243.88      1.25      5.00    281.00    245.00        1.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6400E+02 EXCESS= .0000E+00 OUTFLOW= .6401E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P52tS  MANE         1.60    281.00    243.28      1.31      5.00    281.00    245.00        1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6685E+02 EXCESS= .0000E+00 OUTFLOW= .6686E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P52tS  MANE         1.53    281.00    337.81      1.33      5.00    281.00    245.00        1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6787E+02 EXCESS= .0000E+00 OUTFLOW= .6788E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P52tS  MANE         1.56    281.00    243.21      1.30      5.00    281.00    245.00        1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6671E+02 EXCESS= .0000E+00 OUTFLOW= .6673E+02 BASIN STORAGE= .2728E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P56tS  MANE         1.12    612.00    277.47      1.05      5.00    612.00    280.00        1.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9711E+02 EXCESS= .0000E+00 OUTFLOW= .9712E+02 BASIN STORAGE= .1323E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P56tS  MANE         1.12    612.00    277.66      1.04      5.00    612.00    280.00        1.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9637E+02 EXCESS= .0000E+00 OUTFLOW= .9639E+02 BASIN STORAGE= .1312E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P56tS  MANE         1.11    546.62    282.61       .99      5.00    546.39    285.00         .99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9170E+02 EXCESS= .0000E+00 OUTFLOW= .9171E+02 BASIN STORAGE= .1334E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P56tS  MANE         1.16    464.98    287.92       .90      5.00    464.01    290.00         .90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8343E+02 EXCESS= .0000E+00 OUTFLOW= .8344E+02 BASIN STORAGE= .1344E-10 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
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P56tS  MANE        1.16    364.92    292.26       .77      5.00    364.47    290.00         .77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7135E+02 EXCESS= .0000E+00 OUTFLOW= .7136E+02 BASIN STORAGE= .1314E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P64tS  MANE        1.41    375.00    238.39       .54      5.00    375.00    240.00         .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1033E+03 EXCESS= .0000E+00 OUTFLOW= .1033E+03 BASIN STORAGE= .1763E-10 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P64tS  MANE        1.39    375.00    238.50       .53      5.00    375.00    240.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1029E+03 EXCESS= .0000E+00 OUTFLOW= .1030E+03 BASIN STORAGE= .1800E-10 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P64tS  MANE        1.29    375.00    233.22       .54      5.00    375.00    235.00         .54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1047E+03 EXCESS= .0000E+00 OUTFLOW= .1047E+03 BASIN STORAGE= .1754E-10 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P64tS  MANE        1.26    375.00    362.24       .55      5.00    375.00    235.00         .55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+03 EXCESS= .0000E+00 OUTFLOW= .1051E+03 BASIN STORAGE= .1734E-10 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P64tS  MANE        1.33    375.00    237.94       .53      5.00    375.00    240.00         .53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1020E+03 EXCESS= .0000E+00 OUTFLOW= .1020E+03 BASIN STORAGE= .1777E-10 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P68tS  MANE        1.62    124.00    234.43       .16      5.00    124.00    235.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3699E+02 EXCESS= .0000E+00 OUTFLOW= .3700E+02 BASIN STORAGE= .4528E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P68tS  MANE        1.61    124.00    234.72       .16      5.00    124.00    235.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3688E+02 EXCESS= .0000E+00 OUTFLOW= .3689E+02 BASIN STORAGE= .4488E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P68tS  MANE        1.73    124.00    229.78       .16      5.00    124.00    230.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3726E+02 EXCESS= .0000E+00 OUTFLOW= .3727E+02 BASIN STORAGE= .4639E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P68tS  MANE        1.70    124.00    229.03       .16      5.00    124.00    230.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3770E+02 EXCESS= .0000E+00 OUTFLOW= .3770E+02 BASIN STORAGE= .4431E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P68tS  MANE        1.61    124.00    234.24       .16      5.00    124.00    235.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3699E+02 EXCESS= .0000E+00 OUTFLOW= .3699E+02 BASIN STORAGE= .4612E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P72tS1  MANE       1.30    433.00    243.86       .59      5.00    433.00    245.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1956E+03 EXCESS= .0000E+00 OUTFLOW= .1956E+03 BASIN STORAGE= .8855E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P72tS1  MANE       1.15    433.00    242.61       .59      5.00    433.00    245.00         .59
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1951E+03 EXCESS= .0000E+00 OUTFLOW= .1951E+03 BASIN STORAGE= .8851E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72tS1  MANE         1.19    433.00    238.15       .58      5.00    433.00    240.00         .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1942E+03 EXCESS= .0000E+00 OUTFLOW= .1942E+03 BASIN STORAGE= .8854E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P72tS1  MANE         1.16    433.00    238.35       .59      5.00    433.00    240.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1969E+03 EXCESS= .0000E+00 OUTFLOW= .1969E+03 BASIN STORAGE= .3279E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72tS1  MANE         1.28    433.00    243.62       .59      5.00    433.00    245.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1951E+03 EXCESS= .0000E+00 OUTFLOW= .1951E+03 BASIN STORAGE= .3281E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72tS2  MANE         1.41    281.00    244.05       .38      5.00    281.00    245.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1269E+03 EXCESS= .0000E+00 OUTFLOW= .1269E+03 BASIN STORAGE= .6319E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P72tS2  MANE         1.41    281.00    242.88       .38      5.00    281.00    245.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1266E+03 EXCESS= .0000E+00 OUTFLOW= .1266E+03 BASIN STORAGE= .6317E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72tS2  MANE         1.26    281.00    385.44       .38      5.00    281.00    385.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1260E+03 EXCESS= .0000E+00 OUTFLOW= .1260E+03 BASIN STORAGE= .6319E-05 PERCENT ERROR=

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P72tS2  MANE         1.36    281.00    238.07       .38      5.00    281.00    240.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1278E+03 EXCESS= .0000E+00 OUTFLOW= .1278E+03 BASIN STORAGE= .2341E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72tS2  MANE         1.37    281.00    243.82       .38      5.00    281.00    245.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1266E+03 EXCESS= .0000E+00 OUTFLOW= .1266E+03 BASIN STORAGE= .2341E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P76tS1  MANE         1.48    249.00    238.82       .15      5.00    249.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1225E+03 EXCESS= .0000E+00 OUTFLOW= .1225E+03 BASIN STORAGE= .1443E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P76tS1  MANE         1.48    249.00    239.03       .15      5.00    249.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1222E+03 EXCESS= .0000E+00 OUTFLOW= .1222E+03 BASIN STORAGE= .1443E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P76tS1  MANE         1.55    249.00    234.43       .15      5.00    249.00    235.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1218E+03 EXCESS= .0000E+00 OUTFLOW= .1219E+03 BASIN STORAGE= .1442E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P76tS1  MANE         1.52    249.00    233.32       .15      5.00    249.00    235.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1229E+03 EXCESS= .0000E+00 OUTFLOW= .1229E+03 BASIN STORAGE= .5015E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P76tS1  MANE         1.60    249.00    238.64       .15      5.00    249.00    240.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1192E+03 EXCESS= .0000E+00 OUTFLOW= .1192E+03 BASIN STORAGE= .5015E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P76tS2  MANE         2.23     48.00    239.97       .03      5.00     48.00    240.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2362E+02 EXCESS= .0000E+00 OUTFLOW= .2362E+02 BASIN STORAGE= .4198E-06 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  P76tS2  MANE         2.21     48.00    240.12       .03      5.00     48.00    245.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2355E+02 EXCESS= .0000E+00 OUTFLOW= .2356E+02 BASIN STORAGE= .4198E-06 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
  P76tS2  MANE         2.35     48.00    235.03       .03      5.00     48.00    240.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2349E+02 EXCESS= .0000E+00 OUTFLOW= .2349E+02 BASIN STORAGE= .4198E-06 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  P76tS2  MANE         2.33     48.00    236.13       .03      5.00     48.00    240.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2369E+02 EXCESS= .0000E+00 OUTFLOW= .2369E+02 BASIN STORAGE= .1461E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P76tS2  MANE         2.28     48.00    241.36       .03      5.00     48.00    245.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2298E+02 EXCESS= .0000E+00 OUTFLOW= .2298E+02 BASIN STORAGE= .1462E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P80tS  MANE         1.09    364.00    237.44       .24      5.00    364.00    240.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2112E+03 EXCESS= .0000E+00 OUTFLOW= .2112E+03 BASIN STORAGE= .4640E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P80tS  MANE         1.09    364.00    237.67       .24      5.00    364.00    240.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2106E+03 EXCESS= .0000E+00 OUTFLOW= .2106E+03 BASIN STORAGE= .4641E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P80tS  MANE         1.06    364.00    237.96       .24      5.00    364.00    240.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2085E+03 EXCESS= .0000E+00 OUTFLOW= .2085E+03 BASIN STORAGE= .4629E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P80tS  MANE          .96    364.00    232.53       .24      5.00    364.00    235.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2102E+03 EXCESS= .0000E+00 OUTFLOW= .2102E+03 BASIN STORAGE= .1130E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P80tS  MANE          .95    364.00    232.73       .24      5.00    364.00    235.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2068E+03 EXCESS= .0000E+00 OUTFLOW= .2068E+03 BASIN STORAGE= .1098E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P84tS  MANE         1.34    252.00    232.79      1.35      5.00    252.00    235.00        1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5562E+02 EXCESS= .0000E+00 OUTFLOW= .5563E+02 BASIN STORAGE=-.1247E-02 PERCENT ERROR=    .0
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FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P84tS  MANE        1.34    252.00    233.09      1.35      5.00    252.00    235.00        1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5552E+02 EXCESS= .0000E+00 OUTFLOW= .5554E+02 BASIN STORAGE=-.1247E-02 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P84tS  MANE        1.41    252.00    228.28      1.38      5.00    252.00    230.00        1.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5664E+02 EXCESS= .0000E+00 OUTFLOW= .5665E+02 BASIN STORAGE=-.1247E-02 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P84tS  MANE        1.33    252.00    227.98      1.39      5.00    252.00    230.00        1.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5717E+02 EXCESS= .0000E+00 OUTFLOW= .5718E+02 BASIN STORAGE=-.1247E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P84tS  MANE        1.28    252.00    228.49      1.35      5.00    252.00    230.00        1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5562E+02 EXCESS= .0000E+00 OUTFLOW= .5564E+02 BASIN STORAGE=-.1247E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P88uW  MANE        2.03     36.00    229.35       .04      5.00     36.00    230.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1965E+02 EXCESS= .0000E+00 OUTFLOW= .1965E+02 BASIN STORAGE= .9144E-12 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P88uW  MANE        1.86     36.01    542.74       .04      5.00     36.00    540.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1959E+02 EXCESS= .0000E+00 OUTFLOW= .1960E+02 BASIN STORAGE= .8743E-12 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P88uW  MANE        1.87     36.00    224.00       .04      5.00     36.00    225.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1954E+02 EXCESS= .0000E+00 OUTFLOW= .1955E+02 BASIN STORAGE= .9891E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P88uW  MANE        1.90     36.00    219.85       .04      5.00     36.00    220.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2024E+02 EXCESS= .0000E+00 OUTFLOW= .2024E+02 BASIN STORAGE= .1050E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P88uW  MANE        1.92     36.00    218.90       .04      5.00     36.00    220.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1980E+02 EXCESS= .0000E+00 OUTFLOW= .1980E+02 BASIN STORAGE= .8757E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P92uS  MANE         .88    201.00    231.86       .18      5.00    201.00    235.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9861E+02 EXCESS= .0000E+00 OUTFLOW= .9860E+02 BASIN STORAGE=-.7225E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P92uS  MANE         .88    201.00    232.00       .18      5.00    201.00    235.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9836E+02 EXCESS= .0000E+00 OUTFLOW= .9835E+02 BASIN STORAGE=-.7225E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P92uS  MANE         .86    201.00    227.37       .18      5.00    201.00    230.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9763E+02 EXCESS= .0000E+00 OUTFLOW= .9762E+02 BASIN STORAGE=-.7225E-03 PERCENT ERROR=

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P92uS  MANE         .90    201.00    227.61       .18      5.00    201.00    230.00         .18
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .9762E+02 EXCESS= .0000E+00 OUTFLOW= .9761E+02 BASIN STORAGE=-.7225E-03 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P92uS  MANE          .83    201.00    227.22       .14      5.00    201.00    230.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7819E+02 EXCESS= .0000E+00 OUTFLOW= .7818E+02 BASIN STORAGE=-.7225E-03 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P76uS2  MANE         1.78     48.00    235.08       .03      5.00     48.00    240.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2411E+02 EXCESS= .0000E+00 OUTFLOW= .2411E+02 BASIN STORAGE= .3219E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P76uS2  MANE         1.78     48.00    235.17       .03      5.00     48.00    240.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2404E+02 EXCESS= .0000E+00 OUTFLOW= .2404E+02 BASIN STORAGE= .3219E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P76uS2  MANE         1.74     48.00    228.70       .03      5.00     48.00    230.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2397E+02 EXCESS= .0000E+00 OUTFLOW= .2397E+02 BASIN STORAGE= .3219E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P76uS2  MANE         1.69     48.00    229.33       .03      5.00     48.00    230.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2425E+02 EXCESS= .0000E+00 OUTFLOW= .2425E+02 BASIN STORAGE= .1123E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P76uS2  MANE         1.82     48.00    229.23       .03      5.00     48.00    230.00         .03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2363E+02 EXCESS= .0000E+00 OUTFLOW= .2363E+02 BASIN STORAGE= .1122E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P76uS1  MANE         2.04    249.00    235.11       .14      5.00    249.00    240.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1251E+03 EXCESS= .0000E+00 OUTFLOW= .1251E+03 BASIN STORAGE= .1924E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P76uS1  MANE         2.04    249.00    235.27       .14      5.00    249.00    240.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1247E+03 EXCESS= .0000E+00 OUTFLOW= .1247E+03 BASIN STORAGE= .1924E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P76uS1  MANE         1.98    249.00    230.91       .14      5.00    249.00    235.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1243E+03 EXCESS= .0000E+00 OUTFLOW= .1243E+03 BASIN STORAGE= .1924E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P76uS1  MANE         2.01    249.00    229.53       .14      5.00    249.00    230.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1258E+03 EXCESS= .0000E+00 OUTFLOW= .1258E+03 BASIN STORAGE= .6711E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P76uS1  MANE         1.99    249.00    229.01       .13      5.00    249.00    230.00         .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1226E+03 EXCESS= .0000E+00 OUTFLOW= .1226E+03 BASIN STORAGE= .6705E-06 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P80uS  MANE          1.73    509.00    309.52       .61      5.00    509.00    310.00         .61
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .6034E+03 EXCESS= .0000E+00 OUTFLOW= .6034E+03 BASIN STORAGE= .8825E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P80uS  MANE         1.66    509.00    308.71       .61      5.00    509.00    310.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6027E+03 EXCESS= .0000E+00 OUTFLOW= .6027E+03 BASIN STORAGE= .8795E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P80uS  MANE         1.63    509.00    655.54       .60      5.00    509.00    655.00         .60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5985E+03 EXCESS= .0000E+00 OUTFLOW= .5985E+03 BASIN STORAGE= .8805E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P80uS  MANE         1.77    509.00    330.25       .60      5.00    509.00    335.00         .60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5966E+03 EXCESS= .0000E+00 OUTFLOW= .5966E+03 BASIN STORAGE= .2361E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P80uS  MANE         1.67    509.00    364.80       .59      5.00    509.00    365.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5848E+03 EXCESS= .0000E+00 OUTFLOW= .5848E+03 BASIN STORAGE= .2260E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P84uS  MANE         1.24    252.00    232.62       .28      5.00    252.00    235.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1366E+03 EXCESS= .0000E+00 OUTFLOW= .1366E+03 BASIN STORAGE=-.1165E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P84uS  MANE         1.24    252.00    232.70       .28      5.00    252.00    235.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1363E+03 EXCESS= .0000E+00 OUTFLOW= .1363E+03 BASIN STORAGE=-.1165E-02 PERCENT ERROR=

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P84uS  MANE         1.35    252.00    228.79       .28      5.00    252.00    230.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1351E+03 EXCESS= .0000E+00 OUTFLOW= .1351E+03 BASIN STORAGE=-.1165E-02 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P84uS  MANE         1.28    252.00    228.46       .28      5.00    252.00    230.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1334E+03 EXCESS= .0000E+00 OUTFLOW= .1334E+03 BASIN STORAGE=-.1165E-02 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P84uS  MANE         1.22    252.00    227.91       .24      5.00    252.00    230.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1143E+03 EXCESS= .0000E+00 OUTFLOW= .1143E+03 BASIN STORAGE=-.1165E-02 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P92vS  MANE         2.59    201.00    231.36       .18      5.00    201.00    235.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1088E+03 EXCESS= .0000E+00 OUTFLOW= .1089E+03 BASIN STORAGE=-.2361E-02 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P92vS  MANE         2.59    201.00    231.50       .18      5.00    201.00    235.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1086E+03 EXCESS= .0000E+00 OUTFLOW= .1086E+03 BASIN STORAGE=-.2361E-02 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P92vS  MANE         2.62    201.00    225.98       .18      5.00    201.00    230.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1079E+03 EXCESS= .0000E+00 OUTFLOW= .1080E+03 BASIN STORAGE=-.2570E-02 PERCENT ERROR=    .0
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FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P92vS  MANE         2.54    201.00    226.09       .18      5.00    201.00    230.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1087E+03 EXCESS= .0000E+00 OUTFLOW= .1088E+03 BASIN STORAGE=-.2360E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P92vS  MANE         2.60    201.00    227.23       .16      5.00    201.00    230.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9547E+02 EXCESS= .0000E+00 OUTFLOW= .9550E+02 BASIN STORAGE=-.2570E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P88vS  MANE         1.88     51.00    235.33       .04      5.00     51.00    240.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2500E+02 EXCESS= .0000E+00 OUTFLOW= .2500E+02 BASIN STORAGE=-.3695E-08 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P88vS  MANE         1.88     51.00    235.50       .04      5.00     51.00    240.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2493E+02 EXCESS= .0000E+00 OUTFLOW= .2494E+02 BASIN STORAGE=-.3476E-08 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P88vS  MANE         1.80     51.05    538.41       .04      5.00     51.00    535.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2495E+02 EXCESS= .0000E+00 OUTFLOW= .2496E+02 BASIN STORAGE=-.3729E-08 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P88vS  MANE         1.79     51.01    527.85       .04      5.00     51.00    235.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2497E+02 EXCESS= .0000E+00 OUTFLOW= .2497E+02 BASIN STORAGE=-.3614E-08 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P88vS  MANE         1.86     51.00    235.54       .04      5.00     51.00    240.00         .04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2282E+02 EXCESS= .0000E+00 OUTFLOW= .2282E+02 BASIN STORAGE=-.3755E-08 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P44sS  MANE         4.86    201.00    245.19       .38      5.00    201.00    250.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7590E+02 EXCESS= .0000E+00 OUTFLOW= .7591E+02 BASIN STORAGE= .2508E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P44sS  MANE         4.86    201.00    245.38       .37      5.00    201.00    250.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7556E+02 EXCESS= .0000E+00 OUTFLOW= .7557E+02 BASIN STORAGE= .2664E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P44sS  MANE         4.87    201.01    410.71       .37      5.00    201.01    410.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7461E+02 EXCESS= .0000E+00 OUTFLOW= .7464E+02 BASIN STORAGE= .2508E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P44sS  MANE         4.94    201.00    230.68       .38      5.00    201.00    235.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7723E+02 EXCESS= .0000E+00 OUTFLOW= .7728E+02 BASIN STORAGE= .1732E-05 PERCENT ERROR=   -.1

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P44sS  MANE         5.00    201.00    230.13       .38      5.00    201.00    235.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7705E+02 EXCESS= .0000E+00 OUTFLOW= .7711E+02 BASIN STORAGE= .1732E-05 PERCENT ERROR=   -.1

FOR STORM = 1  STORM AREA (SQ MI) =        .01
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PT48o  MANE        1.06   2573.00    278.12      1.03      5.00   2573.00    280.00        1.03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7875E+03 EXCESS= .0000E+00 OUTFLOW= .7875E+03 BASIN STORAGE= .6841E-05 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =        .50
PT48o  MANE        1.05   2573.00    277.35      1.02      5.00   2573.00    280.00        1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7820E+03 EXCESS= .0000E+00 OUTFLOW= .7821E+03 BASIN STORAGE= .6844E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
PT48o  MANE        1.11   2573.00    298.18       .88      5.00   2573.00    300.00         .88

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6759E+03 EXCESS= .0000E+00 OUTFLOW= .6759E+03 BASIN STORAGE= .6841E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
PT48o  MANE        1.05   2354.84    327.30       .72      5.00   2353.82    330.00         .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5484E+03 EXCESS= .0000E+00 OUTFLOW= .5484E+03 BASIN STORAGE= .4586E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT48o  MANE        1.24   1518.39    312.14       .51      5.00   1517.65    315.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3905E+03 EXCESS= .0000E+00 OUTFLOW= .3905E+03 BASIN STORAGE= .4586E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
PT48q  MANE         .63   3073.49    281.04       .98      5.00   3069.18    280.00         .98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8443E+03 EXCESS= .0000E+00 OUTFLOW= .8443E+03 BASIN STORAGE= .4502E-05 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
PT48q  MANE         .63   3068.53    281.58       .98      5.00   3063.28    280.00         .98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8384E+03 EXCESS= .0000E+00 OUTFLOW= .8383E+03 BASIN STORAGE= .4501E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
PT48q  MANE         .80   2943.66    296.54       .85      5.00   2939.51    295.00         .85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7287E+03 EXCESS= .0000E+00 OUTFLOW= .7287E+03 BASIN STORAGE= .4502E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
PT48q  MANE         .74   2553.95    311.71       .69      5.00   2553.14    310.00         .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5941E+03 EXCESS= .0000E+00 OUTFLOW= .5941E+03 BASIN STORAGE= .3018E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
PT48q  MANE         .82   1701.92    306.00       .49      5.00   1701.66    305.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4239E+03 EXCESS= .0000E+00 OUTFLOW= .4239E+03 BASIN STORAGE= .3018E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
PT48s  MANE        2.26   4133.75    284.13      1.08      5.00   4133.27    285.00        1.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1014E+04 EXCESS= .0000E+00 OUTFLOW= .1014E+04 BASIN STORAGE= .1710E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
PT48s  MANE        2.25   4130.99    284.63      1.08      5.00   4130.21    285.00        1.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1007E+04 EXCESS= .0000E+00 OUTFLOW= .1007E+04 BASIN STORAGE= .1710E-04 PERCENT ERROR=

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
PT48s  MANE        2.42   4003.13    299.28       .96      5.00   4003.08    300.00         .96
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .8972E+03 EXCESS= .0000E+00 OUTFLOW= .8974E+03 BASIN STORAGE= .1711E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           PT48s  MANE         2.47   3548.02    310.25       .79      5.00   3547.73    310.00         .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7423E+03 EXCESS= .0000E+00 OUTFLOW= .7426E+03 BASIN STORAGE= .1079E-04 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           PT48s  MANE         2.57   2364.55    306.54       .56      5.00   2363.34    305.00         .56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5203E+03 EXCESS= .0000E+00 OUTFLOW= .5204E+03 BASIN STORAGE= .1079E-04 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P52uS  MANE         1.28    281.00    248.53      1.24      5.00    281.00    250.00        1.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8945E+02 EXCESS= .0000E+00 OUTFLOW= .8945E+02 BASIN STORAGE= .3829E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P52uS  MANE         1.26    281.00    248.73      1.24      5.00    281.00    250.00        1.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8897E+02 EXCESS= .0000E+00 OUTFLOW= .8898E+02 BASIN STORAGE= .3828E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P52uS  MANE         1.17    281.00    247.54      1.20      5.00    281.00    250.00        1.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8645E+02 EXCESS= .0000E+00 OUTFLOW= .8646E+02 BASIN STORAGE= .3827E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P52uS  MANE         1.20    281.00    247.71      1.15      5.00    281.00    250.00        1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8253E+02 EXCESS= .0000E+00 OUTFLOW= .8254E+02 BASIN STORAGE= .3826E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P52uS  MANE         1.31    281.00    248.70      1.04      5.00    281.00    250.00        1.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7500E+02 EXCESS= .0000E+00 OUTFLOW= .7500E+02 BASIN STORAGE= .3823E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P56uS  MANE          .75    612.00    261.92       .93      5.00    612.00    265.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1218E+03 EXCESS= .0000E+00 OUTFLOW= .1218E+03 BASIN STORAGE= .3875E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P56uS  MANE          .91    612.00    261.95       .92      5.00    612.00    265.00         .92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1212E+03 EXCESS= .0000E+00 OUTFLOW= .1212E+03 BASIN STORAGE= .3875E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P56uS  MANE          .77    612.00    266.80       .91      5.00    612.00    270.00         .92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1200E+03 EXCESS= .0000E+00 OUTFLOW= .1200E+03 BASIN STORAGE= .3875E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P56uS  MANE          .85    612.00    277.47       .86      5.00    612.00    280.00         .86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1125E+03 EXCESS= .0000E+00 OUTFLOW= .1125E+03 BASIN STORAGE= .3875E-06 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P56uS  MANE          .94    473.07    291.79       .70      5.00    472.88    295.00         .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9149E+02 EXCESS= .0000E+00 OUTFLOW= .9149E+02 BASIN STORAGE= .3875E-06 PERCENT ERROR=    .0
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FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P60uS  MANE          1.54    124.00    254.37       .15       5.00    124.00    255.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2901E+02 EXCESS= .0000E+00 OUTFLOW= .2901E+02 BASIN STORAGE= .7847E-12 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P60uS  MANE          1.46    124.00    253.92       .15       5.00    124.00    255.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2888E+02 EXCESS= .0000E+00 OUTFLOW= .2888E+02 BASIN STORAGE= .7770E-12 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P60uS  MANE          1.40    124.00    254.05       .15       5.00    124.00    255.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2866E+02 EXCESS= .0000E+00 OUTFLOW= .2867E+02 BASIN STORAGE= .7899E-12 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P60uS  MANE          1.54    124.00    258.77       .14       5.00    124.00    260.00         .14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2753E+02 EXCESS= .0000E+00 OUTFLOW= .2753E+02 BASIN STORAGE= .7823E-12 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P60uS  MANE          1.44    124.00    272.99       .12       5.00    124.00    275.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2411E+02 EXCESS= .0000E+00 OUTFLOW= .2411E+02 BASIN STORAGE= .7803E-12 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64q  MANE           .64   4959.49    396.27      1.31       5.00   4959.12    395.00        1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1578E+04 EXCESS= .0000E+00 OUTFLOW= .1578E+04 BASIN STORAGE= .1562E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   PT64q  MANE           .64   4949.51    395.83      1.30       5.00   4948.46    395.00        1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1557E+04 EXCESS= .0000E+00 OUTFLOW= .1557E+04 BASIN STORAGE= .1562E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   PT64q  MANE           .70   4617.05    355.43      1.07       5.00   4616.39    355.00        1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+04 EXCESS= .0000E+00 OUTFLOW= .1283E+04 BASIN STORAGE= .1562E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   PT64q  MANE           .70   4078.02    321.97       .87       5.00   4077.71    325.00         .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+04 EXCESS= .0000E+00 OUTFLOW= .1051E+04 BASIN STORAGE= .7192E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64q  MANE           .78   3029.60    316.39       .64       5.00   3028.86    315.00         .64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7691E+03 EXCESS= .0000E+00 OUTFLOW= .7691E+03 BASIN STORAGE= .7192E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64s  MANE           .77   4958.86    396.26      1.26       5.00   4958.04    395.00        1.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1578E+04 EXCESS= .0000E+00 OUTFLOW= .1578E+04 BASIN STORAGE= .1750E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   PT64s  MANE           .79   4947.62    396.00      1.24       5.00   4946.35    395.00        1.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1558E+04 EXCESS= .0000E+00 OUTFLOW= .1557E+04 BASIN STORAGE= .1750E-04 PERCENT ERROR=    .0
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FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   PT64s  MANE          .79   4615.08    355.68      1.02      5.00   4614.00    355.00        1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+04 EXCESS= .0000E+00 OUTFLOW= .1283E+04 BASIN STORAGE= .1750E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   PT64s  MANE          .76   4077.27    326.05       .84      5.00   4076.71    325.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+04 EXCESS= .0000E+00 OUTFLOW= .1051E+04 BASIN STORAGE= .8065E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64s  MANE          .86   3028.83    317.30       .61      5.00   3028.76    320.00         .61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7692E+03 EXCESS= .0000E+00 OUTFLOW= .7691E+03 BASIN STORAGE= .8061E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64t  MANE          .76   4957.92    396.96      1.20      5.00   4957.26    400.00        1.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1578E+04 EXCESS= .0000E+00 OUTFLOW= .1578E+04 BASIN STORAGE= .1938E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   PT64t  MANE          .76   4945.82    396.86      1.18      5.00   4943.85    395.00        1.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1558E+04 EXCESS= .0000E+00 OUTFLOW= .1558E+04 BASIN STORAGE= .1938E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   PT64t  MANE          .73   4613.28    356.11       .98      5.00   4611.24    355.00         .98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+04 EXCESS= .0000E+00 OUTFLOW= .1283E+04 BASIN STORAGE= .1939E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   PT64t  MANE          .83   4076.23    326.81       .80      5.00   4074.11    325.00         .80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+04 EXCESS= .0000E+00 OUTFLOW= .1051E+04 BASIN STORAGE= .8938E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64t  MANE          .82   3028.67    321.52       .59      5.00   3028.28    320.00         .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7692E+03 EXCESS= .0000E+00 OUTFLOW= .7692E+03 BASIN STORAGE= .8937E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   PT64u  MANE          .55   4957.08    400.24      1.14      5.00   4957.06    400.00        1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1579E+04 EXCESS= .0000E+00 OUTFLOW= .1578E+04 BASIN STORAGE= .1251E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   PT64u  MANE          .58   4943.75    396.20      1.13      5.00   4942.33    400.00        1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1558E+04 EXCESS= .0000E+00 OUTFLOW= .1558E+04 BASIN STORAGE= .1251E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   PT64u  MANE          .60   4610.50    355.84       .93      5.00   4609.34    355.00         .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+04 EXCESS= .0000E+00 OUTFLOW= .1283E+04 BASIN STORAGE= .1251E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   PT64u  MANE          .56   4073.96    326.27       .76      5.00   4072.20    330.00         .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1051E+04 EXCESS= .0000E+00 OUTFLOW= .1051E+04 BASIN STORAGE= .5772E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   PT64u  MANE          .52   3028.25    321.03       .56      5.00   3027.50    320.00         .56
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .7693E+03 EXCESS= .0000E+00 OUTFLOW= .7692E+03 BASIN STORAGE= .5770E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P64uS  MANE          .86    375.00    236.78       .42      5.00    375.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1092E+03 EXCESS= .0000E+00 OUTFLOW= .1093E+03 BASIN STORAGE= .2218E-10 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P64uS  MANE          .93    375.00    236.93       .42      5.00    375.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1089E+03 EXCESS= .0000E+00 OUTFLOW= .1089E+03 BASIN STORAGE= .2264E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P64uS  MANE          .87    375.00    232.19       .42      5.00    375.00    235.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1106E+03 EXCESS= .0000E+00 OUTFLOW= .1106E+03 BASIN STORAGE= .2199E-10 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P64uS  MANE          .94    375.00    232.12       .43      5.00    375.00    235.00         .43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1120E+03 EXCESS= .0000E+00 OUTFLOW= .1120E+03 BASIN STORAGE= .2181E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P64uS  MANE          .91    375.00    237.61       .42      5.00    375.00    240.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1098E+03 EXCESS= .0000E+00 OUTFLOW= .1098E+03 BASIN STORAGE= .2238E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P68uS  MANE         1.47    146.00    233.88       .15      5.00    146.00    235.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4767E+02 EXCESS= .0000E+00 OUTFLOW= .4767E+02 BASIN STORAGE= .1176E-10 PERCENT ERROR=

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P68uS  MANE         1.47    146.00    234.09       .15      5.00    146.00    235.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4752E+02 EXCESS= .0000E+00 OUTFLOW= .4752E+02 BASIN STORAGE= .1167E-10 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P68uS  MANE         1.38    146.00    229.01       .15      5.00    146.00    230.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4791E+02 EXCESS= .0000E+00 OUTFLOW= .4792E+02 BASIN STORAGE= .1200E-10 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P68uS  MANE         1.39    146.00    228.73       .15      5.00    146.00    230.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4888E+02 EXCESS= .0000E+00 OUTFLOW= .4889E+02 BASIN STORAGE= .1150E-10 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P68uS  MANE         1.47    146.00    229.06       .15      5.00    146.00    230.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4821E+02 EXCESS= .0000E+00 OUTFLOW= .4821E+02 BASIN STORAGE= .1197E-10 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72uS1  MANE         2.27    433.00    246.77       .47      5.00    433.00    250.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2007E+03 EXCESS= .0000E+00 OUTFLOW= .2008E+03 BASIN STORAGE= .1641E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P72uS1  MANE         2.20    433.00    244.73       .47      5.00    433.00    245.00         .47
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2002E+03 EXCESS= .0000E+00 OUTFLOW= .2002E+03 BASIN STORAGE= .1641E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72uS1  MANE         2.24    433.00    241.64       .46      5.00    433.00    245.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1989E+03 EXCESS= .0000E+00 OUTFLOW= .1989E+03 BASIN STORAGE= .1641E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P72uS1  MANE         2.12    433.00    241.24       .47      5.00    433.00    245.00         .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2018E+03 EXCESS= .0000E+00 OUTFLOW= .2018E+03 BASIN STORAGE= .6094E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72uS1  MANE         2.13    433.00    240.05       .46      5.00    433.00    245.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1998E+03 EXCESS= .0000E+00 OUTFLOW= .1998E+03 BASIN STORAGE= .6098E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
          P72uS2  MANE         2.23    281.00    245.10       .30      5.00    281.00    250.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1303E+03 EXCESS= .0000E+00 OUTFLOW= .1303E+03 BASIN STORAGE= .1054E-04 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
          P72uS2  MANE         2.23    281.00    245.33       .30      5.00    281.00    250.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1299E+03 EXCESS= .0000E+00 OUTFLOW= .1299E+03 BASIN STORAGE= .1053E-04 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
          P72uS2  MANE         2.26    281.00    240.06       .30      5.00    281.00    245.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1291E+03 EXCESS= .0000E+00 OUTFLOW= .1291E+03 BASIN STORAGE= .1054E-04 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
          P72uS2  MANE         2.19    281.00    240.29       .30      5.00    281.00    245.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1310E+03 EXCESS= .0000E+00 OUTFLOW= .1310E+03 BASIN STORAGE= .3912E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
          P72uS2  MANE         2.11    281.00    240.58       .30      5.00    281.00    245.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1297E+03 EXCESS= .0000E+00 OUTFLOW= .1297E+03 BASIN STORAGE= .3926E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P76vS  MANE         2.12    109.00    342.33       .09      5.00    109.00    245.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3962E+02 EXCESS= .0000E+00 OUTFLOW= .3962E+02 BASIN STORAGE= .4779E-06 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P76vS  MANE         2.13    109.00    244.47       .09      5.00    109.00    245.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3950E+02 EXCESS= .0000E+00 OUTFLOW= .3950E+02 BASIN STORAGE= .4779E-06 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P76vS  MANE         2.15    109.00    241.08       .09      5.00    109.00    245.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3967E+02 EXCESS= .0000E+00 OUTFLOW= .3967E+02 BASIN STORAGE= .4780E-06 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P76vS  MANE         2.25    109.00    245.40       .09      5.00    109.00    250.00         .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4009E+02 EXCESS= .0000E+00 OUTFLOW= .4009E+02 BASIN STORAGE= .1671E-06 PERCENT ERROR=    .0
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FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P76vS  MANE        2.26    109.00    256.26       .09      5.00    109.00    260.00        .09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3857E+02 EXCESS= .0000E+00 OUTFLOW= .3858E+02 BASIN STORAGE= .1671E-06 PERCENT ERROR=

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P84vS1  MANE        1.57    252.00    338.51       .33      5.00    252.00    340.00        .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1730E+03 EXCESS= .0000E+00 OUTFLOW= .1730E+03 BASIN STORAGE=-.4353E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  P84vS1  MANE        1.57    252.00    338.71       .33      5.00    252.00    340.00        .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1726E+03 EXCESS= .0000E+00 OUTFLOW= .1726E+03 BASIN STORAGE=-.4353E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
  P84vS1  MANE        1.62    252.00    354.70       .32      5.00    252.00    355.00        .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1690E+03 EXCESS= .0000E+00 OUTFLOW= .1690E+03 BASIN STORAGE=-.4353E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  P84vS1  MANE        1.50    252.00    378.60       .31      5.00    252.00    380.00        .31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1633E+03 EXCESS= .0000E+00 OUTFLOW= .1633E+03 BASIN STORAGE=-.4356E-03 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P84vS1  MANE        1.72    170.26    319.90       .28      5.00    170.26    320.00        .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1452E+03 EXCESS= .0000E+00 OUTFLOW= .1452E+03 BASIN STORAGE=-.4356E-03 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
  P84vS2  MANE        1.09   1017.00    338.25      1.34      5.00   1017.00    340.00       1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6983E+03 EXCESS= .0000E+00 OUTFLOW= .6983E+03 BASIN STORAGE=-.1255E-02 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
  P84vS2  MANE        1.08   1017.00    337.23      1.34      5.00   1017.00    340.00       1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6964E+03 EXCESS= .0000E+00 OUTFLOW= .6964E+03 BASIN STORAGE=-.1255E-02 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
  P84vS2  MANE        1.09   1017.00    352.77      1.31      5.00   1017.00    355.00       1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6819E+03 EXCESS= .0000E+00 OUTFLOW= .6819E+03 BASIN STORAGE=-.1255E-02 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
  P84vS2  MANE        1.12   1017.00    377.49      1.27      5.00   1017.00    380.00       1.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6590E+03 EXCESS= .0000E+00 OUTFLOW= .6590E+03 BASIN STORAGE=-.1256E-02 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
  P84vS2  MANE        1.17    687.12    320.38      1.13      5.00    687.12    320.00       1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5859E+03 EXCESS= .0000E+00 OUTFLOW= .5859E+03 BASIN STORAGE=-.1256E-02 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P80vS  MANE        2.35    249.00    236.22       .29      5.00    249.00    240.00        .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1287E+03 EXCESS= .0000E+00 OUTFLOW= .1287E+03 BASIN STORAGE= .2214E-05 PERCENT ERROR=

FOR STORM = 2  STORM AREA (SQ MI) =        .50
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P80vS  MANE        2.35    249.00    236.44       .29      5.00    249.00    240.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+03 EXCESS= .0000E+00 OUTFLOW= .1283E+03 BASIN STORAGE= .2213E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P80vS  MANE        2.37    249.00    230.97       .29      5.00    249.00    235.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1278E+03 EXCESS= .0000E+00 OUTFLOW= .1278E+03 BASIN STORAGE= .2213E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P80vS  MANE        2.33    249.00    231.65       .30      5.00    249.00    235.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1301E+03 EXCESS= .0000E+00 OUTFLOW= .1301E+03 BASIN STORAGE= .7739E-06 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P80vS  MANE        2.30    249.00    229.91       .29      5.00    249.00    230.00         .29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1274E+03 EXCESS= .0000E+00 OUTFLOW= .1274E+03 BASIN STORAGE= .7746E-06 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P28qE  MANE        1.16     32.00    242.53       .18      5.00     32.00    245.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7816E+01 EXCESS= .0000E+00 OUTFLOW= .7817E+01 BASIN STORAGE=-.8185E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P28qE  MANE        1.06     32.00    242.50       .18      5.00     32.00    245.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7791E+01 EXCESS= .0000E+00 OUTFLOW= .7791E+01 BASIN STORAGE=-.8184E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P28qE  MANE        1.20     32.00    242.79       .18      5.00     32.00    245.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7907E+01 EXCESS= .0000E+00 OUTFLOW= .7907E+01 BASIN STORAGE=-.8185E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P28qE  MANE        1.20     32.00    247.82       .18      5.00     32.00    250.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7967E+01 EXCESS= .0000E+00 OUTFLOW= .7967E+01 BASIN STORAGE=-.8185E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
P28qE  MANE        1.04     32.00    257.20       .17      5.00     32.00    260.00         .17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7559E+01 EXCESS= .0000E+00 OUTFLOW= .7559E+01 BASIN STORAGE=-.8185E-04 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
P24sS  MANE        2.51    208.27    274.18      2.02      5.00    208.24    275.00        2.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2151E+02 EXCESS= .0000E+00 OUTFLOW= .2152E+02 BASIN STORAGE=-.2796E-03 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
P24sS  MANE        2.60    206.05    276.85      2.00      5.00    205.98    275.00        2.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2133E+02 EXCESS= .0000E+00 OUTFLOW= .2132E+02 BASIN STORAGE=-.2565E-03 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
P24sS  MANE        2.69    162.48    280.12      1.81      5.00    162.38    280.00        1.81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1933E+02 EXCESS= .0000E+00 OUTFLOW= .1934E+02 BASIN STORAGE=-.2796E-03 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
P24sS  MANE        2.78    127.16    285.23      1.59      5.00    127.12    285.00        1.59
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1698E+02 EXCESS= .0000E+00 OUTFLOW= .1699E+02 BASIN STORAGE=-.2796E-03 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =       90.00
           P24sS  MANE          3.15     85.11    291.71      1.23      5.00     85.06    290.00        1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1312E+02 EXCESS= .0000E+00 OUTFLOW= .1312E+02 BASIN STORAGE=-.2796E-03 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P16qS  MANE           .93    484.00    267.10       .84      5.00    484.00    270.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3833E+02 EXCESS= .0000E+00 OUTFLOW= .3833E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P16qS  MANE           .95    484.00    267.26       .83      5.00    484.00    270.00         .83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3793E+02 EXCESS= .0000E+00 OUTFLOW= .3792E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P16qS  MANE           .91    383.57    277.22       .66      5.00    377.89    275.00         .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3007E+02 EXCESS= .0000E+00 OUTFLOW= .3009E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=   -.1

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P16qS  MANE          1.00    230.20    286.60       .45      5.00    229.56    285.00         .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2070E+02 EXCESS= .0000E+00 OUTFLOW= .2070E+02 BASIN STORAGE= .9045E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P16qS  MANE          1.39     74.02    318.05       .18      5.00     73.50    320.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8402E+01 EXCESS= .0000E+00 OUTFLOW= .8403E+01 BASIN STORAGE= .9045E-05 PERCENT ERROR=

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P16sS  MANE           .45    709.00    251.32       .38      5.00    709.00    255.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6556E+02 EXCESS= .0000E+00 OUTFLOW= .6557E+02 BASIN STORAGE= .5003E-05 PERCENT ERROR=    .0

        FOR STORM = 2  STORM AREA (SQ MI) =        .50
           P16sS  MANE           .46    709.00    251.05       .37      5.00    709.00    255.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6513E+02 EXCESS= .0000E+00 OUTFLOW= .6513E+02 BASIN STORAGE= .5003E-05 PERCENT ERROR=    .0

        FOR STORM = 3  STORM AREA (SQ MI) =       2.80
           P16sS  MANE           .48    709.00    266.16       .35      5.00    709.00    270.00         .35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6139E+02 EXCESS= .0000E+00 OUTFLOW= .6139E+02 BASIN STORAGE= .5003E-05 PERCENT ERROR=    .0

        FOR STORM = 4  STORM AREA (SQ MI) =      16.00
           P16sS  MANE           .49    454.42    280.22       .27      5.00    454.37    280.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4684E+02 EXCESS= .0000E+00 OUTFLOW= .4684E+02 BASIN STORAGE= .5000E-05 PERCENT ERROR=    .0

        FOR STORM = 5  STORM AREA (SQ MI) =      90.00
           P16sS  MANE           .43    253.07    261.18       .15      5.00    251.06    265.00         .15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2647E+02 EXCESS= .0000E+00 OUTFLOW= .2648E+02 BASIN STORAGE= .5005E-05 PERCENT ERROR=    .0

        FOR STORM = 1  STORM AREA (SQ MI) =        .01
           P16qW  MANE          1.67    175.00    269.37       .30      5.00    175.00    270.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1386E+02 EXCESS= .0000E+00 OUTFLOW= .1386E+02 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .0
```

```
FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P16qW  MANE         1.68    175.00    269.53       .30      5.00    175.00    270.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1371E+02 EXCESS= .0000E+00 OUTFLOW= .1371E+02 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P16qW  MANE         1.68    138.09    279.25       .24      5.00    137.21    280.00         .24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1087E+02 EXCESS= .0000E+00 OUTFLOW= .1087E+02 BASIN STORAGE= .6076E-05 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P16qW  MANE         1.87     83.25    288.74       .16      5.00     82.74    285.00         .16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7485E+01 EXCESS= .0000E+00 OUTFLOW= .7485E+01 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P16qW  MANE         2.31     26.69    320.94       .07      5.00     26.68    320.00         .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3038E+01 EXCESS= .0000E+00 OUTFLOW= .3036E+01 BASIN STORAGE= .6080E-05 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P24oS  MANE         2.20     48.00    403.62       .28      5.00     48.00    235.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1797E+02 EXCESS= .0000E+00 OUTFLOW= .1797E+02 BASIN STORAGE= .1633E-11 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P24oS  MANE         2.20     48.00    403.84       .28      5.00     48.00    235.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1791E+02 EXCESS= .0000E+00 OUTFLOW= .1792E+02 BASIN STORAGE= .1726E-11 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P24oS  MANE         2.29     48.00    231.63       .28      5.00     48.00    235.00         .28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1810E+02 EXCESS= .0000E+00 OUTFLOW= .1810E+02 BASIN STORAGE= .1675E-11 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P24oS  MANE         2.23     48.00    229.87       .30      5.00     48.00    230.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1906E+02 EXCESS= .0000E+00 OUTFLOW= .1906E+02 BASIN STORAGE= .1691E-11 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P24oS  MANE         2.25     48.00    230.61       .30      5.00     48.00    235.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1939E+02 EXCESS= .0000E+00 OUTFLOW= .1940E+02 BASIN STORAGE= .1661E-11 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P28pE  MANE         4.04     68.01    386.13       .12      5.00     68.00    385.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1983E+02 EXCESS= .0000E+00 OUTFLOW= .1985E+02 BASIN STORAGE=-.9861E-03 PERCENT ERROR=   -.1

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P28pE  MANE         4.04     68.01    386.47       .12      5.00     68.00    385.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1977E+02 EXCESS= .0000E+00 OUTFLOW= .1978E+02 BASIN STORAGE=-.9858E-03 PERCENT ERROR=   -.1

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P28pE  MANE         4.04     68.00    251.93       .12      5.00     68.00    255.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1977E+02 EXCESS= .0000E+00 OUTFLOW= .1979E+02 BASIN STORAGE=-.9861E-03 PERCENT ERROR=   -.1
```

```
FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P28pE  MANE         4.05     68.00    255.52       .12      5.00     68.00    260.00         .12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1983E+02 EXCESS= .0000E+00 OUTFLOW= .1985E+02 BASIN STORAGE=-.9861E-03 PERCENT ERROR=

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P28pE  MANE         4.19     68.00    259.00       .11      5.00     68.00    260.00         .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1906E+02 EXCESS= .0000E+00 OUTFLOW= .1906E+02 BASIN STORAGE=-.9861E-03 PERCENT ERROR=    .0

FOR STORM = 1  STORM AREA (SQ MI) =        .01
   P24sE  MANE         2.30     30.83    275.18       .30      5.00     30.80    275.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3173E+01 EXCESS= .0000E+00 OUTFLOW= .3173E+01 BASIN STORAGE=-.3278E-04 PERCENT ERROR=    .0

FOR STORM = 2  STORM AREA (SQ MI) =        .50
   P24sE  MANE         2.30     30.49    275.42       .29      5.00     30.45    275.00         .30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3145E+01 EXCESS= .0000E+00 OUTFLOW= .3146E+01 BASIN STORAGE=-.3278E-04 PERCENT ERROR=    .0

FOR STORM = 3  STORM AREA (SQ MI) =       2.80
   P24sE  MANE         2.33     23.91    280.58       .27      5.00     23.89    280.00         .27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2851E+01 EXCESS= .0000E+00 OUTFLOW= .2852E+01 BASIN STORAGE=-.3278E-04 PERCENT ERROR=    .0

FOR STORM = 4  STORM AREA (SQ MI) =      16.00
   P24sE  MANE         2.48     18.72    283.69       .23      5.00     18.68    285.00         .23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2504E+01 EXCESS= .0000E+00 OUTFLOW= .2505E+01 BASIN STORAGE=-.3278E-04 PERCENT ERROR=    .0

FOR STORM = 5  STORM AREA (SQ MI) =      90.00
   P24sE  MANE         2.67     12.55    288.51       .18      5.00     12.54    290.00         .18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1934E+01 EXCESS= .0000E+00 OUTFLOW= .1935E+01 BASIN STORAGE=-.3278E-04 PERCENT ERROR=    .0


*** NORMAL END OF HEC-1 ***
```

APPENDIX D

HEC-1 Model Output File for the 50-Year, 24-Hour Storm

```
1****************************************                    ****************************************
 *                                      *                    *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                    *    U.S. ARMY CORPS OF ENGINEERS      *
 *              JUN   1998              *                    *    HYDROLOGIC ENGINEERING CENTER     *
 *            VERSION 4.1               *                    *          609 SECOND STREET           *
 *                                      *                    *       DAVIS, CALIFORNIA 95616        *
 *  RUN DATE   11JUL06  TIME  08:08:01  *                    *           (916) 756-1104             *
 *                                      *                    *                                      *
 ****************************************                    ****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   Project ID: METRO ADMS/P - Major Basin: 01 - Return Period: 50 Years
  2           ID   METRO PHOENIX ADMS/P - FCD2004C040: Wood/Patel in association with EEC
  3           ID   50-Year 24-Hour Storm
  4           ID   SCS Type II Precipitation Distribution
  5           ID   Green and Ampt Loss Method
  6           ID   Clark Unit Hydrograph
  7           ID   Future Land Use Conditions
  8           ID   Model Name: FF24BASE.DAT, June 2006
  9           ID
 10           ID  ******************************************************************************
 11           ID   Important Notes:
 12           ID   1)  Peak flow for each subbasin may not concentrate on one single point,
 13           ID       for illustration purposes, it is assumed that the concentration point
 14           ID       is located on the hydrologic low point of the subbasin;
 15           ID   2)  Surface flow diversions may occur at several locations along one of the
 16           ID       subbasin downstream boundaries.  For simplicity, one split flow is
 17           ID       modeled for each subbasin to one direction;
 18           ID   3)  A fixed flow split ratio for most of the subbasin is used for all
 19           ID       frequencies except some of the subbasins along Grand Canal.
 20           ID   4)  Some subbasins have multiple pipes to one direction, a composite storm
 21           ID       drain pipe may have been used to model these conditions;
 22           ID   5)  Some subbasins have multiple detention/retention basins, an equivalent
 23           ID       detention/retention basin may have been used to model these conditions;
 24           ID   6)  Surface flow routing may occur at multiple streets and as sheet flow,
 25           ID       a composite channel cross section is used to represent the streets
 26           ID       flow conveyance.
 27           ID
 28           ID  ******************************************************************************
 29           ID   HEC-1 ELEMENT NOMENCLATURE
 30           ID
 31           ID   SUB-BASIN HYDROGRAPH:
 32           ID      Example: "80c" is the hydrograph from subbasin 80c
 33           ID
 34           ID   SUB-BASIN FLOW DIVERSION:
 35           ID      Example: "D80cS" is the south component of diversion in Subbasin 80c
 36           ID
 37           ID   PIPE FLOW DIVERSION:
 38           ID      Example: "80cP" is the pipe flow from Subbasin 80c
 39           ID
 40           ID   PIPE FLOW ROUTING:
 41           ID      Example: "P80cS" is the south component of pipe routing from Subbasin 80c
 42           ID
 43           ID   CHANNEL ROUTE:
 44           ID      Example: "R80cS" is the south component of surface flow routing from 80c
 45           ID
 46           ID   STORAGE ROUTE:
 47           ID      Example: "S80c" is the storage routing in Subbasin 80c
 48           ID
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 49          ID   HYDROGRAPH COMBINE:
 50          ID      Example: "C80c" is the combined flow in Subbasin 80c
 51          ID
 52          ID   HYDROGRAPH RETRIEVAL:
 53          ID      Example: "B80c" is the retrieved flow from Subbasin 80c
 54          ID
 55          ID   "DUMMY" COMBINE:
1                                   HEC-1 INPUT                                                    PAGE  2

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 56          ID      Example: "NUL80C" is the dummy hydrograph combining to free up a HEC-1
 57          ID              computational path.
 58          ID   ******************************************************************************
 59          ID
 60          IT       5                    2000
 61          IN      15
 62          IO       5
             *DIAGRAM
             *
 63          JD    3.46    0.01
 64          PC   0.000   0.002   0.005   0.008   0.011   0.014   0.017   0.020   0.023   0.026
 65          PC   0.029   0.032   0.035   0.038   0.041   0.044   0.048   0.052   0.056   0.060
 66          PC   0.064   0.068   0.072   0.076   0.080   0.085   0.090   0.095   0.100   0.105
 67          PC   0.110   0.115   0.120   0.126   0.133   0.140   0.147   0.155   0.163   0.172
 68          PC   0.181   0.191   0.203   0.218   0.236   0.257   0.283   0.387   0.663   0.707
 69          PC   0.735   0.758   0.776   0.791   0.804   0.815   0.825   0.834   0.842   0.849
 70          PC   0.856   0.863   0.869   0.875   0.881   0.887   0.893   0.898   0.903   0.908
 71          PC   0.913   0.918   0.922   0.926   0.930   0.934   0.938   0.942   0.946   0.950
 72          PC   0.953   0.956   0.959   0.962   0.965   0.968   0.971   0.974   0.977   0.980
 73          PC   0.983   0.986   0.989   0.992   0.995   0.998   1.000
 74          JD   3.252      10
 75          JD   3.114      30
 76          JD   2.976      60
 77          JD   2.927      90
             *

 78          KK     64c   BASIN
 79          BA   0.264
 80          KM    Subbasin at NEC(northeast corner) of Northern Ave. & Central Ave.
 81          LG    1.00    0.24    4.55    0.41      20
 82          UC   0.817   0.617
 83          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 84          UA     100
             *

 85          KK   D64cW  DIVERT
 86          KM    Divert 68% of surface flow to south.
 87          DT   D64cS
 88          DI       0     100    1000   10000
 89          DQ       0      68     678    6776
             *

 90          KK   R64cW   ROUTE
 91          KM    Route surface flow west from Subbasin 64c to Subbasin 68c.
 92          RS       5    FLOW      -1
 93          RC   0.050   0.016   0.050    2640  0.0045
 94          RX       0     1.3      52   127.4   132.6     208   258.7     260
 95          RY       3       1     0.5       0       0     0.5       1       3
             *
1                                   HEC-1 INPUT                                                    PAGE  3

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 96          KK     68c   BASIN
 97          KM    Subbasin at NEC corner of Northern Ave. & 7th Ave.
 98          BA   0.434
 99          LG    1.68    0.25    4.60    0.39      18
100          UC   0.840   0.545
101          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
102          UA     100
             *

103          KK    C68c COMBINE
104          KM    Combine hydrographs 68c and R64cW at Northern and Central Avenues.
105          HC       2    0.70
             *

106          KK    D68c  DIVERT
107          KM    Divert 41 cfs into pipe (south).
108          DT   D68cP
109          DI       0      41    1000   10000
110          DQ       0      41      41      41
             *
```

```
111          KK   D68cW  DIVERT
112          KM    Divert surface flow to south.
113          DT   D68cS
114          DI       0     100    1000   10000
115          DQ       0      46     458    4576
             *

116          KK   R68cW   ROUTE
117          KM    Route surface flow west from Subbasin 68c to Subbasin 72c.
118          RS       4    FLOW      -1
119          RC   0.050   0.016   0.050    2640  0.0023
120          RX       0    1.85      74   181.3   188.7     296  368.15     370
121          RY       3       1     0.5       0       0     0.5       1       3
             *

122          KK     72c   BASIN
123          KM    Subbasin at NEC corner of Northern Ave. & 15th Ave.
124          BA   0.542
125          LG    1.94    0.25    4.80    0.35      13
126          UC   1.248   0.958
127          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
128          UA     100
             *

129          KK    C72c COMBINE
130          KM    Combine hydrographs 72c and R68cW at Northern and 15th Avenues.
131          HC       2    1.24
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

132          KK    D72c  DIVERT
133          KM    Divert 90 cfs into pipe (south).
134          DT   D72cP
135          DI       0      90    1000   10000
136          DQ       0      90      90      90
             *

137          KK   D72cW  DIVERT
138          KM    Divert 90% surface flow to south.
139          DT   D72cS
140          DI       0     100    1000   10000
141          DQ       0      90     900    9000
             *

142          KK   R72cW   ROUTE
143          KM    Route surface flow west from Subbasin 72c to Subbasin 76c.
144          RS       9    FLOW      -1
145          RC   0.050   0.016   0.050    2640  0.0008
146          RX       0    2.05      82   200.9   209.1     328  407.95     410
147          RY       3       1     0.5       0       0     0.5       1       3
             *

148          KK     76C   BASIN
149          KM    Subbasin at NEC corner of Northern Ave. & 19th Ave.
150          BA   0.602
151          LG    0.77    0.19    6.60    0.17      18
152          UC   0.801   0.508
153          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
154          UA     100
             *

155          KK    C76c COMBINE
156          KM    Combine hydrographs 76c and R72cW at Northern and 19th Avenues.
157          HC       2    1.84
             *

158          KK   D76cP  DIVERT
159          KM    Divert 39 (68% of 58) cfs into 19th Ave pipe (south).
160          DT    D76c
161          DI       0      39     100    1000   10000
162          DQ       0       0      61     961    9961
             *

163          KK     84c   BASIN
164          KM    Subbasin at NWC(northwest corner) of Northern Ave. & 23rd Ave.
165          BA   0.467
166          LG    0.24    0.25    6.00    0.23      42
167          UC   1.006   0.908
168          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
169          UA     100
             *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK   D84cE  DIVERT
 171          KM    Divert surface flow to south.
 172          DT   D84cS
 173          DI       0      100     1000    10000
 174          DQ       0       77      768     7682
              *

 175          KK   R84cE   ROUTE
 176          KM    Route surface flow east from Subbasin 84c to Subbasin 80c.
 177          RS       4     FLOW       -1
 178          RC   0.050    0.016    0.050     2640  0.0008
 179          RX       0      0.5       20       49      51      80    99.5     100
 180          RY       3        1      0.5        0       0     0.5       1       3
              *

 181          KK     80c   BASIN
 182          KM    Subbasin at NEC corner of Northern Ave. & 15th Ave.
 183          BA   0.661
 184          LG    0.83     0.25     5.20     0.33      33
 185          UC   0.913    0.601
 186          UA       0      5.0     16.0     30.0    65.0    77.0    84.0    90.0    94.0    97.0
 187          UA     100
              *

 188          KK    S80c STORAGE
 189          KM    Online Local Retention Basin, 4 ac-ft.
 190          RS       1     STOR        0
 191          SV       0        1      2.6      4.3      11
 192          SE       0        1        2        3       5
 193          SS       3      100      2.7      1.5
              *

 194          KK    C80c COMBINE
 195          KM    Combine hydrographs 80c and R84cE at Northern and 19th Avenues.
 196          HC       2     1.13
              *

 197          KK   D80cP  DIVERT
 198          KM    Divert 19 (32% of 58) cfs into 19th Ave pipe (south).
 199          DT    D80c
 200          DI       0       19      100     1000   10000
 201          DQ       0        0       81      981    9981
              *

 202          KK   C76cP COMBINE
 203          KM    Combine hydrographs into Storm Drain at Northern and 19th Avenues.
 204          HC       2     2.97
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 205          KK   P76cS   ROUTE
 206          KM    Route pipe flow from Northern/19th Ave. to Glendale/19th Ave.
 207          RK    5300  0.0044   0.015            CIRC    3.50
              *

 208          KK  D76eP1  DIVERT
 209          KM    Divert 32% of pipe flow to 80e from 80c.
 210          DT  D80eP1
 211          DI       0      100     1000   10000
 212          DQ       0       32      320    3200
              *

 213          KK     56e   BASIN
 214          KM    Subbasin at NEC of Glendale Ave. & 12th St.
 215          BA   0.176
 216          LG    1.72     0.24     4.35     0.47      18
 217          UC   0.663    0.453
 218          UA       0      5.0     16.0     30.0    65.0    77.0    84.0    90.0    94.0    97.0
 219          UA     100
              *

 220          KK   D56eW  DIVERT
 221          KM    Divert surface flow to south.
 222          DT   D56eS
 223          DI       0      100     1000   10000
 224          DQ       0       53      525    5253
              *

 225          KK   R56eW   ROUTE
 226          KM    Route surface flow west from Subbasin 56e to Subbasin 60e.
```

```
227          RS       6    FLOW      -1
228          RC   0.050   0.016   0.050    2640  0.0053
229          RX       0    1.75      70   171.5   178.5     280  348.25     350
230          RY       3       1     0.5       0       0     0.5       1       3
             *

231          KK     60e   BASIN
232          KM    Subbasin at NEC of Glendale Ave. & 7th St.
233          BA   0.406
234          LG    1.35    0.25    4.45    0.45      21
235          UC   0.924   0.703
236          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
237          UA     100
             *

238          KK    C60e COMBINE
239          KM    Combine hydrographs 60e and R56eW.
240          HC       2    0.58
             *
1                                        HEC-1 INPUT                                          PAGE  7

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

241          KK    D60e  DIVERT
242          KM    Divert 75 cfs into pipe (south).
243          DT   D60eP
244          DI       0      75    1000   10000
245          DQ       0      75      75      75
             *

246          KK   D60eW  DIVERT
247          KM    Divert surface flow to south.
248          DT   D60eS
249          DI       0     100    1000   10000
250          DQ       0      34     342    3420
             *

251          KK   R60eW   ROUTE
252          KM    Route surface flow west from Subbasin 60e to Subbasin 64e.
253          RS       6    FLOW      -1
254          RC   0.050   0.016   0.050    2640  0.0038
255          RX       0    3.85     154   377.3   392.7     616  766.15     770
256          RY       3       1     0.5       0       0     0.5       1       3
             *

257          KK     64e   BASIN
258          KM    Subbasin at NEC of Glendale Ave. & Central Ave.
259          BA   0.502
260          LG    1.59    0.25    4.70    0.36      15
261          UC   1.015   0.771
262          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
263          UA     100
             *

264          KK   B64cS RETRIEVE
265          KM    Retrieve diverted surface flow from D64cS.
266          DR   D64cS
             *

267          KK   R64cS   ROUTE
268          KM    Route surface flow south from Subbasin 64c to Subbasin 64e.
269          RS       6    FLOW      -1
270          RC   0.050   0.016   0.050    5280  0.0072
271          RX       0     1.8      72   176.4   183.6     288   358.2     360
272          RY       3       1     0.5       0       0     0.5       1       3
             *

273          KK    C64e COMBINE
274          KM    Combine hydrographs 64e, R64cS, and R60eW.
275          HC       3    1.35
             *
1                                        HEC-1 INPUT                                          PAGE  8

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

276          KK   D64eW  DIVERT
277          KM    Divert surface flow to south.
278          DT   D64eS
279          DI       0     100    1000   10000
280          DQ       0      50     500    5000
             *

281          KK   R64eW   ROUTE
282          KM    Route surface flow west from Subbasin 64e to Subbasin 68e.
```

```
283          RS       3    FLOW      -1
284          RC   0.050   0.016   0.050    2640  0.0034
285          RX       0    1.55      62   151.9   158.1     248  308.45     310
286          RY       3       1     0.5       0       0     0.5       1       3
             *

287          KK     68e   BASIN
288          KM    Subbasin at NEC of Glendale Ave. & 7th Ave.
289          BA   0.496
290          LG    1.58    0.25    4.80    0.35      14
291          UC   1.048   0.804
292          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
293          UA     100
             *

294          KK   B68cP RETRIEVE
295          KM    Retrieve diverted pipe flow from D68cP.
296          DR   D68cP
             *

297          KK   P68cS   ROUTE
298          KM    Route pipe flow from Northern/7th Ave. to Glendale/7th Ave.
299          RK    5300  0.0033   0.015           CIRC     3.25
             *

300          KK   B68cS RETRIEVE
301          KM    Retrieve diverted surface flow from D68cS.
302          DR   D68cS
             *

303          KK   R68cS   ROUTE
304          KM    Route surface flow south from Subbasin 68c to Subbasin 68e.
305          RS       6    FLOW      -1
306          RC   0.050   0.016   0.050    5280  0.0066
307          RX       0    1.05      42   102.9   107.1     168  208.95     210
308          RY       3       1     0.5       0       0     0.5       1       3
             *

309          KK   C68cS COMBINE
310          KM    Combine hydrographs R68cS and P68cS.
311          HC       2    0.70
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

312          KK    C68e COMBINE
313          KM    Combine hydrographs 68e, C68cS, and R64eW.
314          HC       3    2.28
             *

315          KK    D68e  DIVERT
316          KM    Divert 63 cfs into pipe (south).
317          DT   D68eP
318          DI       0      63    1000   10000
319          DQ       0      63      63      63
             *

320          KK   D68eW  DIVERT
321          KM    Divert surface flow to south.
322          DT   D68eS
323          DI       0     100    1000   10000
324          DQ       0      54     539    5391
             *

325          KK   R68eW   ROUTE
326          KM    Route surface flow west from Subbasin 68e to Subbasin 72e.
327          RS       3    FLOW      -1
328          RC   0.050   0.016   0.050    2640  0.0019
329          RX       0    1.55      62   151.9   158.1     248  308.45     310
330          RY       3       1     0.5       0       0     0.5       1       3
             *

331          KK     72e   BASIN
332          KM    Subbasin at NEC of Glendale Ave. & 15th Ave.
333          BA   0.499
334          LG    1.62    0.25    4.80    0.35      19
335          UC   1.049   0.802
336          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
337          UA     100
             *

338          KK   B72cP RETRIEVE
339          KM    Retrieve diverted pipe flow from D72cP.
340          DR   D72cP
```

```
                *

 341            KK   P72cS   ROUTE
 342            KM    Route pipe flow from Northern/15th Ave. to Glendale/15th Ave.
 343            RK    5300  0.0052   0.015           CIRC     4.00
                *

 344            KK   B72cS RETRIEVE
 345            KM    Retrieve diverted surface flow from D72cS.
 346            DR   D72cS
                *
1                                          HEC-1 INPUT                                                    PAGE 10

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 347            KK   R72cS   ROUTE
 348            KM    Route surface flow south from Subbasin 72c to Subbasin 72e.
 349            RS       6    FLOW      -1
 350            RC   0.050   0.016   0.050    5280  0.0055
 351            RX       0    1.55      62   151.9   158.1     248  308.45     310
 352            RY       3       1     0.5       0       0     0.5       1       3
                *

 353            KK   C72cS COMBINE
 354            KM    Combine hydrographs R72cS and P72cS.
 355            HC       2    1.24
                *

 356            KK    C72e COMBINE
 357            KM    Combine hydrographs 72e, C72cS, and R68eW.
 358            HC       3    3.32
                *

 359            KK    D72e  DIVERT
 360            KM    Divert 195 cfs into pipe (south).
 361            DT   D72eP
 362            DI       0     100     195   10000
 363            DQ       0     100     195     195
                *

 364            KK   D72eW  DIVERT
 365            KM    Divert 90% surface flow to south.
 366            DT   D72eS
 367            DI       0     100    1000   10000
 368            DQ       0      90     900    9000
                *

 369            KK   R72eW   ROUTE
 370            KM    Route surface flow west from Subbasin 72e to Subbasin 76e.
 371            RS       9    FLOW      -1
 372            RC   0.050   0.016   0.050    2640  0.0004
 373            RX       0    1.65      66   161.7   168.3     264  328.35     330
 374            RY       3       1     0.5       0       0     0.5       1       3
                *

 375            KK     76e   BASIN
 376            KM    Subbasin at NEC of Glendale Ave. & 19th Ave.
 377            BA   0.499
 378            LG    1.17    0.25    5.20    0.30      22
 379            UC   0.974   0.643
 380            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 381            UA     100
                *
1                                          HEC-1 INPUT                                                    PAGE 11

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 382            KK    B76c RETRIEVE
 383            KM    Retrieve diverted surface flow from D76c.
 384            DR    D76c
                *

 385            KK   R76cS   ROUTE
 386            KM    Route surface flow south from Subbasin 76c to Subbasin 76e.
 387            RS       5    FLOW      -1
 388            RC   0.050   0.016   0.050    5280  0.0036
 389            RX       0       1      40      98     102     160     199     200
 390            RY       3       1     0.5       0       0     0.5       1       3
                *

 391            KK    C76e COMBINE
 392            KM    Combine hydrographs 76e, R72eW, D76eP1, and R76cS.
 393            HC       4    4.42
                *
```

```
394          KK   D76eP  DIVERT
395          KM    Divert 21 (27% of 76) cfs into 19th Ave pipe (south).
396          DT    D76e
397          DI       0      21     100    1000   10000
398          DQ       0       0      79     979    9979
             *

399          KK  BD84cS RETRIEVE
400          KM    Retrieve diverted surface flow from D84cS.
401          DR   D84cS
             *

402          KK   R84cS   ROUTE
403          KM    Route surface flow south from Subbasin 84c to Subbasin 84e.
404          RS       4    FLOW      -1
405          RC   0.050   0.016   0.050    5280  0.0042
406          RX       0    0.75      30    73.5    76.5     120  149.25     150
407          RY       3       1     0.5       0       0     0.5       1       3
             *

408          KK     84e   BASIN
409          KM    Subbasin at NWC of Glendale Ave. & 23rd Ave.
410          BA   0.214
411          LG    1.19    0.15    7.30    0.13      23
412          UC   0.989   1.066
413          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
414          UA     100
             *

415          KK    C84e COMBINE
416          KM    Combine hydrographs 84e and R84cS.
417          HC       2    0.68
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

418          KK   D84eE  DIVERT
419          KM    Divert surface flow to south.
420          DT   D84eS
421          DI       0     100    1000   10000
422          DQ       0      39     395    3950
             *

423          KK   R84eE   ROUTE
424          KM    Route surface flow east from Subbasin 84e to Subbasin 80e.
425          RS       6    FLOW      -1
426          RC   0.050   0.016   0.050    2640  0.0005
427          RX       0    1.85      74   181.3   188.7     296  368.15     370
428          RY       3       1     0.5       0       0     0.5       1       3
             *

429          KK     80e   BASIN
430          KM    Subbasin at NWC of Glendale Ave. & 19th Ave.
431          BA   0.494
432          LG    0.74    0.25    6.00    0.22      23
433          UC   0.916   0.604
434          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
435          UA     100
             *

436          KK  B80eP1 RETRIEVE
437          KM    Retrieve diverted pipe flow from D80eP1.
438          DR  D80eP1
             *

439          KK   BD80c RETRIEVE
440          KM    Retrieve diverted surface flow from D80c.
441          DR    D80c
             *

442          KK   R80cS   ROUTE
443          KM    Route surface flow south from Subbasin 80c to Subbasin 80e.
444          RS       4    FLOW      -1
445          RC   0.050   0.016   0.050    5280  0.0036
446          RX       0       1      40      98     102     160     199     200
447          RY       3       1     0.5       0       0     0.5       1       3
             *

448          KK    C80e COMBINE
449          KM    Combine hydrographs 80e,R84eE, R80cS, and D80eP1.
450          HC       4    1.84
             *
```

```
 451          KK   D80eP  DIVERT
 452          KM    Divert 55 (73% of 76) cfs into 19th Ave pipe (south).
 453          DT    D80e
 454          DI       0      55     100    1000   10000
 455          DQ       0       0      45     945    9945
              *
1                                        HEC-1 INPUT                                                    PAGE 13

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 456          KK   C76eP COMBINE
 457          KM    Combine hydrographs D80eP and D76eP into 19th Ave pipe.
 458          HC       2    6.26
              *

 459          KK   P76eS   ROUTE
 460          KM    Route pipe flow from Glendale/19th Ave. to Bethany/19th Ave.
 461          RK    5300  0.0037   0.015           CIRC     4.00
              *

 462          KK  D76gP1  DIVERT
 463          KM    Divert 73% of pipe flow to 80g from 80e.
 464          DT  D80gP1
 465          DI       0     100    1000   10000
 466          DQ       0      73     730    7300
              *

 467          KK     76g   BASIN
 468          KM    Subbasin at NWC of Bethany Home & 15th Ave.
 469          BA   0.501
 470          LG    1.08    0.25    5.60    0.26      28
 471          UC   0.903   0.590
 472          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 473          UA     100
              *

 474          KK   BD76e RETRIEVE
 475          KM    Retrieve diverted surface flow from D76e.
 476          DR    D76e
              *

 477          KK   R76eS   ROUTE
 478          KM    Route surface flow south from Subbasin 76e to Subbasin 76g.
 479          RS       5    FLOW      -1
 480          RC   0.050   0.016   0.050    5280  0.0040
 481          RX       0    1.05      42   102.9   107.1     168  208.95     210
 482          RY       3       1     0.5       0       0     0.5       1       3
              *

 483          KK    C76g COMBINE
 484          KM    Combine hydrographs 76g, R76eS, and D76gP1.
 485          HC       3    4.92
              *

 486          KK   D76g1  DIVERT
 487          KM    Divert 48 cfs into pipe (15th Ave).
 488          DT  D76gP2
 489          DI       0      48    1000   10000
 490          DQ       0      48      48      48
              *
1                                        HEC-1 INPUT                                                    PAGE 14

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 491          KK    D76g  DIVERT
 492          KM    Divert 57 (75% of 76) cfs into 19th Ave pipe (south).
 493          DT   D76gP
 494          DI       0      57     100    1000   10000
 495          DQ       0      57      57      57      57
              *

 496          KK   D76gE  DIVERT
 497          KM    Divert surface flow to south.
 498          DT   D76gS
 499          DI       0     100    1000   10000
 500          DQ       0      70     700    7000
              *

 501          KK   R76gE   ROUTE
 502          KM    Route surface flow east from Subbasin 76g to Subbasin 72g.
 503          RS       3    FLOW      -1
 504          RC   0.050   0.016   0.050    1000  0.0008
 505          RX       0     1.4      56   137.2   142.8     224   278.6     280
 506          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *

507             KK  B76gP2 RETRIEVE
508             KM    Retrieve diverted pipe flow from D76gP2.
509             DR  D76gP2
                *

510             KK   C76gE COMBINE
511             KM    Combine hydrographs D76gP2 and R76gE.
512             HC       2    4.92
                *

513             KK     54g   BASIN
514             KM    Subbasin at NEC of Bethany Home & 16th St.
515             BA   0.247
516             LG    0.95    0.25    4.65    0.39      26
517             UC   0.604   0.458
518             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
519             UA     100
                *

520             KK   D54gW  DIVERT
521             KM    Divert surface flow to south.
522             DT   D54gS
523             DI       0     100    1000   10000
524             DQ       0      40     405    4050
                *

525             KK   R54gW   ROUTE
526             KM    Route surface flow west from Subbasin 54g to Subbasin 56g.
527             RS       4    FLOW      -1
528             RC   0.050   0.016   0.050    2636  0.0030
529             RX       0    1.95      78   191.1   198.9     312  388.05     390
530             RY       3       1     0.5       0       0     0.5       1       3
                *
1                                                HEC-1 INPUT                                                PAGE 15

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

531             KK     56g   BASIN
532             KM    Subbasin at NEC of Bethany Home & 12th St.
533             BA   0.500
534             LG    1.70    0.25    4.35    0.47      23
535             UC   0.885   0.664
536             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
537             UA     100
                *

538             KK   B56eS RETRIEVE
539             KM    Retrieve diverted surface flow from D56eS.
540             DR   D56eS
                *

541             KK   R56eS   ROUTE
542             KM    Route surface flow south from Subbasin 56e to Subbasin 56g.
543             RS       6    FLOW      -1
544             RC   0.050   0.016   0.050    5280  0.0106
545             RX       0     1.8      72   176.4   183.6     288   358.2     360
546             RY       3       1     0.5       0       0     0.5       1       3
                *

547             KK    C56g COMBINE
548             KM    Combine hydrographs 56g, R56eS, and R54gW.
549             HC       3    0.92
                *

550             KK    D56g  DIVERT
551             KM    Divert 130 cfs into pipe (south).
552             DT   D56gP
553             DI       0     100     130   10000
554             DQ       0     100     130     130
                *

555             KK   D56gW  DIVERT
556             KM    Divert surface flow to south.
557             DT   D56gS
558             DI       0     100    1000   10000
559             DQ       0      56     561    5614
                *

560             KK   R56gW   ROUTE
561             KM    Route surface flow west from Subbasin 56g to Subbasin 60g.
562             RS       5    FLOW      -1
563             RC   0.050   0.016   0.050    2636  0.0030
564             RX       0     1.9      76   186.2   193.8     304   378.1     380
```

```
 565          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE 16

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 566          KK     60g   BASIN
 567          KM    Subbasin at NEC of Bethany Home & 7th St.
 568          BA   0.500
 569          LG    1.51    0.25    4.65    0.39      25
 570          UC   0.910   0.684
 571          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 572          UA     100
              *

 573          KK   B60eP RETRIEVE
 574          KM    Retrieve diverted pipe flow from D60eP.
 575          DR   D60eP
              *

 576          KK   P60eS   ROUTE
 577          KM    Route pipe flow from Glendale/7th St. to Bethany/7th St.
 578          RK    5300  0.0074   0.015           CIRC     3.50
              *

 579          KK   B60eS RETRIEVE
 580          KM    Retrieve diverted surface flow from D60eS.
 581          DR   D60eS
              *

 582          KK   R60eS   ROUTE
 583          KM    Route surface flow south from Subbasin 6oe to Subbasin 60g.
 584          RS       6    FLOW      -1
 585          RC   0.050   0.016   0.050    5280  0.0091
 586          RX       0    1.55      62   151.9   158.1     248  308.45     310
 587          RY       3       1     0.5       0       0     0.5       1       3
              *

 588          KK   C60eS COMBINE
 589          KM    Combine hydrographs R60eS and P60eS.
 590          HC       2    0.58
              *

 591          KK    C60g COMBINE
 592          KM    Combine hydrographs 60g, R56gW, and C60eS.
 593          HC       3    1.83
              *

 594          KK    D60g  DIVERT
 595          KM    Divert 124 cfs into pipe (south).
 596          DT   D60gP
 597          DI       0     100     124   10000
 598          DQ       0     100     124     124
              *
1                                          HEC-1 INPUT                                                    PAGE 17

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 599          KK   D60gW  DIVERT
 600          KM    Divert surface flow to south.
 601          DT   D60gS
 602          DI       0     100    1000   10000
 603          DQ       0      47     470    4701
              *

 604          KK   R60gW   ROUTE
 605          KM    Route surface flow west from Subbasin 60g to Subbasin 64g.
 606          RS       3    FLOW      -1
 607          RC   0.050   0.016   0.050    2640  0.0023
 608          RX       0    2.05      82   200.9   209.1     328  407.95     410
 609          RY       3       1     0.5       0       0     0.5       1       3
              *

 610          KK     64g   BASIN
 611          KM    Subbasin at NEC of Bethany Home & Central Ave.
 612          BA   0.502
 613          LG    1.76    0.25    4.80    0.36      20
 614          UC   1.012   0.768
 615          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 616          UA     100
              *

 617          KK   B64eS RETRIEVE
 618          KM    Retrieve diverted surface flow from D64eS.
```

```
619          DR   D64eS
             *

620          KK   R64eS   ROUTE
621          KM    Route surface flow south from Subbasin 64e to Subbasin 64g.
622          RS       6    FLOW      -1
623          RC   0.050   0.016   0.050    5280  0.0076
624          RX       0    1.75      70   171.5   178.5     280  348.25     350
625          RY       3       1     0.5       0       0     0.5       1       3
             *

626          KK    C64g COMBINE
627          KM    Combine hydrographs 64g, R60gW, and R64eS.
628          HC       3    3.10
             *

629          KK    D64g  DIVERT
630          KM    Divert 153 cfs into pipe.
631          DT   D64gP
632          DI       0     100     153   10000
633          DQ       0     100     153     153
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

634          KK   D64gW  DIVERT
635          KM    Divert surface flow to south.
636          DT   D64gS
637          DI       0     100    1000   10000
638          DQ       0      48     480    4800
             *

639          KK   R64gW   ROUTE
640          KM    Route surface flow west from Subbasin 64g to Subbasin 68g.
641          RS       3    FLOW      -1
642          RC   0.050   0.016   0.050    2640  0.0019
643          RX       0     1.3      52   127.4   132.6     208   258.7     260
644          RY       3       1     0.5       0       0     0.5       1       3
             *

645          KK     68g   BASIN
646          KM    Subbasin at NEC of Bethany Home & 7th Ave.
647          BA   0.502
648          LG    1.98    0.25    4.80    0.36      17
649          UC   1.187   0.917
650          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
651          UA     100
             *

652          KK   B68eP RETRIEVE
653          KM    Retrieve diverted pipe flow from D68eP.
654          DR   D68eP
             *

655          KK   P68eS   ROUTE
656          KM    Route pipe flow from Glendale/7th Ave. to Bethany/7th Ave.
657          RK    5300  0.0052   0.015           CIRC     3.50
             *

658          KK   B68eS RETRIEVE
659          KM    Retrieve diverted surface flow from D68eS.
660          DR   D68eS
             *

661          KK   R68eS   ROUTE
662          KM    Route surface flow south from Subbasin 68e to Subbasin 68g.
663          RS       3    FLOW      -1
664          RC   0.050   0.016   0.050    5280  0.0063
665          RX       0     1.3      52   127.4   132.6     208   258.7     260
666          RY       3       1     0.5       0       0     0.5       1       3
             *

667          KK   C68eS COMBINE
668          KM    Combine hydrographs R68eS and P68eS.
669          HC       2    2.28
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

670          KK    C68g COMBINE
671          KM    Combine hydrographs 68g, C68eS, and R64gW.
672          HC       3    4.53
```

```
                *
673             KK    D68g  DIVERT
674             KM    Divert 82 cfs into pipe.
675             DT   D68gP
676             DI       0      82    1000   10000
677             DQ       0      82      82      82
                *

678             KK   D68gW  DIVERT
679             KM    Divert surface flow to south.
680             DT   D68gS
681             DI       0     100    1000   10000
682             DQ       0      56     560    5600
                *

683             KK   R68gW   ROUTE
684             KM    Route surface flow west from Subbasin 68g to Subbasin 72g.
685             RS       4    FLOW      -1
686             RC   0.050   0.016   0.050    2640  0.0008
687             RX       0    1.05      42   102.9   107.1     168  208.95     210
688             RY       3       1     0.5       0       0     0.5       1       3
                *

689             KK    72g    BASIN
690             KM    Subbasin at NEC of Bethany Home & 15th Ave.
691             BA   0.500
692             LG    1.30    0.25    5.60    0.27      20
693             UC   1.083   0.830
694             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
695             UA     100
                *

696             KK   B72eP RETRIEVE
697             KM    Retrieve diverted pipe flow from D72eP.
698             DR   D72eP
                *

699             KK   P72eS   ROUTE
700             KM    Route pipe flow from Glendale/15th Ave. to Bethany/15th Ave.
701             RK    5300  0.0058   0.015           CIRC     5.25
                *

702             KK   B72eS RETRIEVE
703             KM    Retrieve diverted surface flow from D72eS.
704             DR   D72eS
                *
```



```
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

705             KK   R72eS   ROUTE
706             KM    Route surface flow south from Subbasin 72e to Subbasin 72g.
707             RS       5    FLOW      -1
708             RC   0.050   0.016   0.050    5280  0.0047
709             RX       0    1.75      70   171.5   178.5     280  348.25     350
710             RY       3       1     0.5       0       0     0.5       1       3
                *

711             KK   C72eS COMBINE
712             KM    Combine hydrographs R72eS and P72eS.
713             HC       2    3.32
                *

714             KK    C72g COMBINE
715             KM    Combine hydrographs 72g, C72eS, and R68gW.
716             HC       3    6.07
                *

717             KK   CC72g COMBINE
718             KM    Combine hydrographs C72g and C76gE.
719             HC       2    7.67
                *

720             KK    D72g  DIVERT
721             KM    Divert 178 cfs into pipe.
722             DT   D72gP
723             DI       0     100     178   10000
724             DQ       0     100     178     178
                *

725             KK   R72gS   ROUTE
726             KM    Route surface flow south from Subbasin 72g to Subbasin 72i.
727             RS       3    FLOW      -1
728             RC   0.050   0.016   0.050    5280  0.0040
```

```
729          RX       0     1.3      52   127.4   132.6     208   258.7     260
730          RY       3       1     0.5       0       0     0.5       1       3
             *

731          KK  BD72gP RETRIEVE
732          KM    Retrieve diverted pipe flow from D72gP.
733          DR   D72gP
             *

734          KK   P72gS   ROUTE
735          KM    Route pipe flow from Bethany/15th Ave. to Camelback/15th Ave.
736          RK    5300  0.0024   0.015           CIRC     6.00
             *

737          KK   C72gS COMBINE
738          KM    Combine hydrographs R72gS and P72gS.
739          HC       2    7.67
             *
1                                        HEC-1 INPUT                                                    PAGE 21

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

740          KK     84g   BASIN
741          KM   Subbasin at NWC of Bethany Home & 23rd Ave.
742          BA   0.214
743          LG    0.61    0.25    4.80    0.36      27
744          UC   0.916   0.972
745          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
746          UA     100
             *

747          KK   B84eS RETRIEVE
748          KM    Retrieve diverted surface flow from D84eS.
749          DR   D84eS
             *

750          KK   R84eS   ROUTE
751          KM    Route surface flow south from Subbasin 84e to Subbasin 84g.
752          RS       6    FLOW      -1
753          RC   0.050   0.016   0.050    5280  0.0042
754          RX       0       1      40      98     102     160     199     200
755          RY       3       1     0.5       0       0     0.5       1       3
             *

756          KK    C84g COMBINE
757          KM    Combine hydrographs 84g and R84eS.
758          HC       2    0.90
             *

759          KK   D84gE  DIVERT
760          KM    Divert surface flow to south.
761          DT   D84gS
762          DI       0     100    1000   10000
763          DQ       0      47     474    4742
             *

764          KK   R84gE   ROUTE
765          KM    Route surface flow east from Subbasin 84g to Subbasin 80g.
766          RS       6    FLOW      -1
767          RC   0.050   0.016   0.050    2640  0.0005
768          RX       0     1.4      56   137.2   142.8     224   278.6     280
769          RY       3       1     0.5       0       0     0.5       1       3
             *

770          KK     80g   BASIN
771          KM    Subbasin at NWC of Bethany Home & 19th Ave.
772          BA   0.496
773          LG    0.89    0.25    4.80    0.39      23
774          UC   1.032   0.687
775          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
776          UA     100
             *
1                                        HEC-1 INPUT                                                    PAGE 22

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

777          KK   BD80e RETRIEVE
778          KM    Retrieve diverted surface flow from D80e.
779          DR    D80e
             *

780          KK   R80eS   ROUTE
781          KM    Route surface flow south from Subbasin 80e to Subbasin 80g.
782          RS       3    FLOW      -1
```

```
783          RC   0.050   0.016   0.050    5280  0.0040
784          RX       0    1.05      42   102.9   107.1     168  208.95     210
785          RY       3       1     0.5       0       0     0.5       1       3
             *

786          KK  B80gP1 RETRIEVE
787          KM    Retrieve diverted pipe flow from D80gP1.
788          DR  D80gP1
             *

789          KK    C80g COMBINE
790          KM    Combine hydrographs 80g, R84gE, R80eS, and D80gP1.
791          HC       4    2.55
             *

792          KK   D80gP  DIVERT
793          KM    Divert 19 (25% of 76) cfs into pipe (south).
794          DT    D80g
795          DI       0      19     100    1000   10000
796          DQ       0       0      81     981    9981
             *

797          KK   B76gP RETRIEVE
798          KM    Retrieve diverted pipe flow from D76gP.
799          DR   D76gP
             *

800          KK   C76gP COMBINE
801          KM    Combine hydrographs D76gP and D80gP.
802          HC       2    7.47
             *

803          KK   P76gS   ROUTE
804          KM    Route pipe flow from Bethany/19th Ave. to Camelback/19th Ave.
805          RK    5300  0.0037   0.015           CIRC     4.00
             *

806          KK  D76iP1  DIVERT
807          KM    Divert 25% of pipe flow from 80g to 80i.
808          DT  D80iP1
809          DI       0     100    1000   10000
810          DQ       0      25     250    2500
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

811          KK     76i   BASIN
812          KM    Subbasin at NWC of Camelback Rd. & 15th Ave.
813          BA   0.499
814          LG    0.72    0.25    5.40    0.29      44
815          UC   0.926   0.607
816          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
817          UA     100
             *

818          KK  BD76gS RETRIEVE
819          KM    Retrieve diverted surface flow from D76gS.
820          DR   D76gS
             *

821          KK   R76gS   ROUTE
822          KM    Route surface flow south from Subbasin 76g to Subbasin 76i.
823          RS       3    FLOW      -1
824          RC   0.050   0.016   0.050    5280  0.0034
825          RX       0    0.75      30    73.5    76.5     120  149.25     150
826          RY       3       1     0.5       0       0     0.5       1       3
             *

827          KK    C76i COMBINE
828          KM    Combine hydrographs D76iP1, R76gS, and 76i.
829          HC       3    5.42
             *

830          KK  D76iP2  DIVERT
831          KM   Divert 48 cfs flow into 15th Ave pipe.
832          DT   D76i1
833          DI       0      48     100    1000   10000
834          DQ       0       0      52     952    9952
             *

835          KK     72i   BASIN
836          KM    Subbasin at NEC of Camelback Rd. & 7th Ave.
837          BA   0.504
838          LG    0.92    0.25    4.80    0.36      22
```

```
839          UC   1.049   0.798
840          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
841          UA     100
             *

842          KK    C72i COMBINE
843          KM    Combine hydrographs 72i, C72gS, and D76iP2.
844          HC       3    8.68
             *

845          KK   D72iP  DIVERT
846          KM   Divert flow into pipe.
847          KM   Total Pipe flow is 258 cfs
848          DT    D72i
849          DI       0     258    1000   10000
850          DQ       0       0     742    9742
             *
1                                          HEC-1 INPUT                                                    PAGE 24

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

851          KK  D72iP2  DIVERT
852          KM   Divert flow into pipe.
853          KM   Flow of pipe 2 to west is 32, flow of pipe 1 to south is 226 cfs
854          DT  D72iP1
855          DI       0     258     300
856          DQ       0     226     226
             *

857          KK   P72iW   ROUTE
858          KM    Route pipe flow from Camelback/15th Ave. to Camelback/19th Ave.
859          RK    2600  0.0030   0.015            CIRC      4.0
             *

860          KK  BD76i1 RETRIEVE
861          KM    Retrieve diverted flow from D76i1.
862          DR   D76i1
             *

863          KK   CC76i COMBINE
864          KM    Combine hydrographs D76i1,and P72iW.
865          HC       2    5.92
             *

866          KK   D76iP  DIVERT
867          KM   Divert 78 (74% of 106) cfs flow into pipe.
868          DT    D76i
869          DI       0      78     100    1000   10000
870          DQ       0       0      22     922    9922
             *
             *

871          KK  BD84gS RETRIEVE
872          KM    Retrieve diverted surface flow from D84gS.
873          DR   D84gS
             *

874          KK   R84gS   ROUTE
875          KM    Route surface flow south from Subbasin 84g to Subbasin 84i.
876          RS       6    FLOW      -1
877          RC   0.050   0.016   0.050    5280  0.0038
878          RX       0    0.75      30    73.5    76.5     120  149.25     150
879          RY       3       1     0.5       0       0     0.5       1       3
             *

880          KK     84i   BASIN
881          KM    Subbasin at NWC of Camelback Rd. & 23rd Ave.
882          BA   0.211
883          LG    0.99    0.25    5.20    0.31      27
884          UC   1.009   1.106
885          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
886          UA     100
             *
1                                          HEC-1 INPUT                                                    PAGE 25

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

887          KK    C84i COMBINE
888          KM    Combine hydrographs 84i and R84gS.
889          HC       2    1.11
             *

890          KK    S84i STORAGE
891          KM    Online Regional Retention Basin - Phase A Basin of 24th Ave & Camelback Rd.
```

```
892          RS       1    STOR       0
893          SV       0       8      17      22      27      32      50
894          SE       0       2       4       5       6       7       9
895          SS       7     100     2.7     1.5
             *

896          KK   D84iE  DIVERT
897          KM    Divert surface flow to south.
898          DT   D84iS
899          DI       0     100    1000   10000
900          DQ       0      39     387    3873
             *

901          KK   R84iE  ROUTE
902          KM    Route surface flow east from Subbasin 84i to Subbasin 80i.
903          RS       9    FLOW      -1
904          RC   0.050   0.016   0.050    2640  0.0015
905          RX       0     1.4      56   137.2   142.8     224   278.6     280
906          RY       3       1     0.5       0       0     0.5       1       3
             *

907          KK     80i   BASIN
908          KM    Subbasin at NWC of Camelback Rd. & 19th Ave.
909          BA   0.494
910          LG    0.47    0.25    5.70    0.24      23
911          UC   0.912   0.601
912          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
913          UA     100
             *

914          KK   BD80g RETRIEVE
915          KM    Retrieve diverted flow from D80g.
916          DR    D80g
             *

917          KK    S80g STORAGE
918          KM    Online Regional Detention Basin, 0.9 ac-ft.
919          RS       1    STOR       0
920          SV       0     0.2     0.5     0.9     1.4     3.0
921          SE       0       1       2       3       4       5
922          SL       0   0.785    0.62     0.5
923          SS       3     300     2.7     1.5
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

924          KK   R80gS   ROUTE
925          KM    Route surface flow south from Subbasin 80g to Subbasin 80i.
926          RS       3    FLOW      -1
927          RC   0.050   0.016   0.050    5280  0.0034
928          RX       0    0.75      30    73.5    76.5     120  149.25     150
929          RY       3       1     0.5       0       0     0.5       1       3
             *

930          KK  B80iP1 RETRIEVE
931          KM    Retrieve diverted pipe flow from D80iP1.
932          DR  D80iP1
             *

933          KK    C80i COMBINE
934          KM    Combine hydrographs 80i,R84E,R80gS, and D80iP1.
935          HC       4    3.25
             *

936          KK   D80iP  DIVERT
937          KM    Divert 28 (26% of 106) cfs into pipe.
938          DT    D80i
939          DI       0      28     100    1000   10000
940          DQ       0       0      72     972    9972
             *

941          KK   C76iP COMBINE
942          KM    Combine hydrographs D80iP and D76iP.
943          HC       2    9.18
             *

944          KK   P76iS   ROUTE
945          KM    Route pipe flow from Camelback/19th Ave. to Grand Canal/19th Ave.
946          RK    3500  0.0039   0.015            CIRC     4.50
             *

947          KK  D76kP1  DIVERT
948          KM    Divert 26% of pipe flow from 80i to 80k.
949          DT  D80kP1
```

```
 950          DI       0     100    1000   10000
 951          DQ       0      26     260    2600
              *

 952          KK     76k   BASIN
 953          KM    Subbasin at NEC of Grand Canal & 19th Ave.
 954          BA   0.317
 955          LG    0.55    0.15    7.00    0.14      28
 956          UC   0.757   0.472
 957          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 958          UA     100
              *
1                                        HEC-1 INPUT                                          PAGE 27

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 959          KK   BD76i RETRIEVE
 960          KM    Retrieve diverted surface flow from D76i.
 961          DR    D76i
              *

 962          KK   D76iS  DIVERT
 963          KM    Divert surface flow to east.
 964          DT   D76iE
 965          DI       0     100    1000   10000
 966          DQ       0      32     320    3200
              *

 967          KK   R76iS   ROUTE
 968          KM    Route surface flow south from Subbasin 76i to Subbasin 76k.
 969          RS       3    FLOW      -1
 970          RC   0.050   0.016   0.050    3500  0.0038
 971          RX       0    0.75      30    73.5    76.5     120  149.25     150
 972          RY       3       1     0.5       0       0     0.5       1       3
              *

 973          KK    C76k COMBINE
 974          KM    Combine hydrographs D76kP1, R76iS, and 76k.
 975          HC       3    5.74
              *

 976          KK  D76kP2  DIVERT
 977          KM    Divert flow into pipe.
 978          KM    Pipe flow to east is 32 cfs
 979          DT   D76k1
 980          DI       0      32     100    1000   10000
 981          DQ       0       0      68     968    9968
              *

 982          KK     54i   BASIN
 983          KM    Subbasin at NEC of Camelback Rd. & 16th St.
 984          BA   0.192
 985          LG    1.22    0.25    4.80    0.39      33
 986          UC   0.768   0.802
 987          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
 988          UA     100
              *

 989          KK  BD54gS RETRIEVE
 990          KM    Retrieve diverted surface flow from D54gS.
 991          DR   D54gS
              *

 992          KK   R54gS   ROUTE
 993          KM    Route surface flow south from Subbasin 54g to Subbasin 54i.
 994          RS       6    FLOW      -1
 995          RC   0.050   0.016   0.050    5280  0.0072
 996          RX       0    0.75      30    73.5    76.5     120  149.25     150
 997          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                          PAGE 28

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 998          KK    C54i COMBINE
 999          KM    Combine hydrographs 54i and R54gS.
1000          HC       2    0.44
              *

1001          KK    D54i  DIVERT
1002          KM    Divert 68 cfs into pipe.
1003          DT   D54iP
1004          DI       0      68    1000   10000
1005          DQ       0      68      68      68
```

```
                *

1006            KK   D54iW  DIVERT
1007            KM    Divert surface flow to south.
1008            DT   D54iS
1009            DI       0     100    1000   10000
1010            DQ       0      37     372    3722
                *

1011            KK   R54iW   ROUTE
1012            KM    Route surface flow west from Subbasin 54i to Subbasin 56i.
1013            RS       6    FLOW      -1
1014            RC   0.050   0.016   0.050    2636  0.0015
1015            RX       0     1.6      64   156.8   163.2     256   318.4     320
1016            RY       3       1     0.5       0       0     0.5       1       3
                *

1017            KK     56i   BASIN
1018            KM    Subbasin at NEC of Camelback Rd. & 12th St.
1019            BA   0.500
1020            LG    1.20    0.25    4.80    0.37      28
1021            UC   0.845   0.630
1022            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1023            UA     100
                *

1024            KK  BD56gP RETRIEVE
1025            KM    Retrieve diverted pipe flow from D56gP.
1026            DR   D56gP
                *

1027            KK   P56gS   ROUTE
1028            KM    Route pipe flow from Bethany/12th St. to Camelback/12th St.
1029            RK    5300  0.0058   0.015           CIRC     4.50
                *

1030            KK  BD56gS RETRIEVE
1031            KM    Retrieve diverted surface flow from D56gS.
1032            DR   D56gS
                *
```



```
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1033            KK   R56gS   ROUTE
1034            KM    Route surface flow south from Subbasin 56g to Subbasin 56i.
1035            RS       6    FLOW      -1
1036            RC   0.050   0.016   0.050    5280  0.0072
1037            RX       0     1.3      52   127.4   132.6     208   258.7     260
1038            RY       3       1     0.5       0       0     0.5       1       3
                *

1039            KK   C56gS COMBINE
1040            KM    Combine hydrographs R56gS and P56gS.
1041            HC       2    0.92
                *

1042            KK    C56i COMBINE
1043            KM    Combine hydrographs 56i, C56gS, and R54iW.
1044            HC       3    1.62
                *

1045            KK    D56i  DIVERT
1046            KM    Divert 204 cfs into pipe.
1047            DT   D56iP
1048            DI       0     100     204   10000
1049            DQ       0     100     204     204
                *

1050            KK   D56iW  DIVERT
1051            KM    Divert surface flow to south.
1052            DT   D56iS
1053            DI       0     100    1000   10000
1054            DQ       0      49     488    4881
                *

1055            KK   R56iW   ROUTE
1056            KM    Route surface flow west from Subbasin 56i to Subbasin 60i.
1057            RS       9    FLOW      -1
1058            RC   0.050   0.016   0.050    2636  0.0015
1059            RX       0     2.4      96   235.2   244.8     384   477.6     480
1060            RY       3       1     0.5       0       0     0.5       1       3
                *

1061            KK     60i   BASIN
```

```
1062          KM    Subbasin at NEC of Camelback Rd. & 7th St.
1063          BA   0.500
1064          LG    0.78    0.25    4.80    0.37      33
1065          UC   0.848   0.633
1066          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1067          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1068          KK  BD60gP RETRIEVE
1069          KM    Retrieve diverted pipe flow from D60gP.
1070          DR   D60gP
              *

1071          KK   P60gS   ROUTE
1072          KM    Route pipe flow from Bethany/7th St. to Camelback/7th St.
1073          RK    5300  0.0053   0.015           CIRC     4.50
              *

1074          KK  BD60gS RETRIEVE
1075          KM    Retrieve diverted surface flow from D60gS.
1076          DR   D60gS
              *

1077          KK   R60gS   ROUTE
1078          KM    Route surface flow south from Subbasin 60g to Subbasin 60i.
1079          RS       5    FLOW      -1
1080          RC   0.050   0.016   0.050    5280  0.0064
1081          RX       0    1.05      42   102.9   107.1     168  208.95     210
1082          RY       3       1     0.5       0       0     0.5       1       3
              *

1083          KK   C60gS COMBINE
1084          KM    Combine hydrographs R60gS and P60gS.
1085          HC       2    1.83
              *

1086          KK    C60i COMBINE
1087          KM    Combine hydrographs 60i, C60gS, and R56iW.
1088          HC       3    3.02
              *

1089          KK    D60i  DIVERT
1090          KM   Divert 211 cfs into pipe.
1091          KM   Total flow for two pipes is 211 cfs
1092          DT   D60iP
1093          DI       0     100     211   10000
1094          DQ       0     100     211     211
              *

1095          KK   D60iW  DIVERT
1096          KM    Divert surface flow to south.
1097          DT   D60iS
1098          DI       0     100    1000   10000
1099          DQ       0      59     592    5916
              *

1100          KK   R60iW   ROUTE
1101          KM    Route surface flow west from Subbasin 60i to Subbasin 64i.
1102          RS       4    FLOW      -1
1103          RC   0.050   0.016   0.050    2640  0.0015
1104          RX       0    1.85      74   181.3   188.7     296  368.15     370
1105          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                          PAGE 31

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1106          KK  BD64gP RETRIEVE
1107          KM    Retrieve diverted pipe flow from D64gP.
1108          DR   D64gP
              *

1109          KK   P64gS   ROUTE
1110          KM    Route pipe flow from Bethany/Central Ave. to Camelback/Central Ave.
1111          RK    5300  0.0046   0.015           CIRC     5.00
              *

1112          KK  BD64gS RETRIEVE
1113          KM    Retrieve diverted surface flow from D64gS.
1114          DR   D64gS
              *
```

```
1115          KK   R64gS   ROUTE
1116          KM    Route surface flow south from Subbasin 64g to Subbasin 64i.
1117          RS       5    FLOW      -1
1118          RC   0.050   0.016   0.050    5280  0.0061
1119          RX       0    0.75      30    73.5    76.5     120  149.25     150
1120          RY       3       1     0.5       0       0     0.5       1       3
              *

1121          KK   C64gS COMBINE
1122          KM    Combine hydrographs R64gS and P64gS.
1123          HC       2    3.10
              *

1124          KK     64i   BASIN
1125          KM    Subbasin at NEC of Camelback Rd. & Central Ave.
1126          BA   0.499
1127          LG    1.40    0.25    4.80    0.37      32
1128          UC   0.950   0.719
1129          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1130          UA     100
              *

1131          KK    C64i COMBINE
1132          KM    Combine hydrographs 64i, C64gS, and R60iW.
1133          HC       3    4.79
              *

1134          KK    D64i  DIVERT
1135          KM    Divert 214 cfs into pipe.
1136          DT   D64iP
1137          DI       0     100     214   10000
1138          DQ       0     100     214     214
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1139          KK   D64iW  DIVERT
1140          KM    Divert surface flow to south.
1141          DT   D64iS
1142          DI       0     100    1000   10000
1143          DQ       0      61     610    6098
              *

1144          KK   R64iW   ROUTE
1145          KM    Route surface flow west from Subbasin 64i to Subbasin 68i.
1146          RS       6    FLOW      -1
1147          RC   0.050   0.016   0.050    2640  0.0010
1148          RX       0     1.6      64   156.8   163.2     256   318.4     320
1149          RY       3       1     0.5       0       0     0.5       1       3
              *

1150          KK     68i   BASIN
1151          KM    Subbasin at NEC of Camelback Rd. & 7th Ave.
1152          BA   0.500
1153          LG    1.78    0.25    4.80    0.36      23
1154          UC   1.176   0.910
1155          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1156          UA     100
              *

1157          KK  BD68gP RETRIEVE
1158          KM    Retrieve diverted pipe flow from D68gP.
1159          DR   D68gP
              *

1160          KK   P68gS   ROUTE
1161          KM    Route pipe flow from Bethany/7th Ave. to Camelback/7th Ave.
1162          RK    5300  0.0043   0.015            CIRC     4.00
              *

1163          KK  BD68gS RETRIEVE
1164          KM    Retrieve diverted surface flow from D68gS.
1165          DR   D68gS
              *

1166          KK   R68gS   ROUTE
1167          KM    Route surface flow south from Subbasin 68g to Subbasin 68i.
1168          RS       4    FLOW      -1
1169          RC   0.050   0.016   0.050    5280  0.0045
1170          RX       0     1.3      52   127.4   132.6     208   258.7     260
1171          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
1172          KK   C68gS COMBINE
1173          KM    Combine hydrographs R68gS and P68gS.
1174          HC       2     4.53
              *
                                          HEC-1 INPUT                                                    PAGE 33

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1175          KK    C68i COMBINE
1176          KM    Combine hydrographs 68i, C68gS, and R64iW.
1177          HC       3     6.72
              *

1178          KK   BD72i RETRIEVE
1179          KM    Retrieve diverted surface flow from D72i.
1180          DR    D72i
              *

1181          KK   B76iE RETRIEVE
1182          KM    Retrieve diverted surface flow from D76iE.
1183          DR   D76iE
              *

1184          KK   R76iE  ROUTE
1185          KM    Route surface flow east from Subbasin 76i to Subbasin 72i.
1186          RS       4    FLOW      -1
1187          RC   0.050   0.016   0.050    2640  0.0008
1188          RX       0     1.4      56   137.2   142.8     224   278.6     280
1189          RY       3       1     0.5       0       0     0.5       1       3
              *

1190          KK   CC72i COMBINE
1191          KM    Combine hydrographs R76iE and D72i.
1192          HC       2     8.68
              *

1193          KK   D72iE  DIVERT
1194          KM    Divert surface flow to south.
1195          DT   D72iS
1196          DI       0     100    1000   10000
1197          DQ       0      70     700    7000
              *

1198          KK   R72iE   ROUTE
1199          KM    Route surface flow east from Subbasin 72i to Subbasin 68i.
1200          RS       5    FLOW      -1
1201          RC   0.050   0.016   0.050    2640  0.0008
1202          RX       0    1.35      54   132.3   137.7     216  268.65     270
1203          RY       3       1     0.5       0       0     0.5       1       3
              *

1204          KK   CC68i COMBINE
1205          KM    Combine hydrographs C68i and R72iE.
1206          HC       2   10.87
              *

1207          KK    D68i  DIVERT
1208          KM    Divert 99 cfs into pipe.
1209          DT   D68iP
1210          DI       0      99    1000   10000
1211          DQ       0      99      99      99
              *
1                                         HEC-1 INPUT                                                    PAGE 34

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1212          KK   R68iS   ROUTE
1213          KM    Route surface flow south from Subbasin 68i to Subbasin 68k.
1214          RS       3    FLOW      -1
1215          RC   0.050   0.016   0.050    2000  0.0030
1216          RX       0     0.8      32    78.4    81.6     128   159.2     160
1217          RY       3       1     0.5       0       0     0.5       1       3
              *

1218          KK  BD68iP RETRIEVE
1219          KM    Retrieve diverted pipe flow from D68iP.
1220          DR   D68iP
              *

1221          KK   P68iS   ROUTE
1222          KM    Route pipe flow from Camelback/7th Ave. to Grand Canal/7th Ave.
1223          RK    2400  0.0034   0.015            CIRC    4.50
              *
```

```
1224          KK   C68iS COMBINE
1225          KM    Combine hydrographs R68iS and P68iS.
1226          HC       2   10.87
              *

1227          KK     36i   BASIN
1228          KM    Subbasin at NEC of Camelback Rd. & 32nd St.
1229          BA   0.339
1230          LG    0.95    0.24    3.95    0.57      19
1231          UC   0.856   0.703
1232          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1233          UA     100
              *

1234          KK    D36i  DIVERT
1235          KM    Divert 41 cfs into pipe.
1236          DT   D36iP
1237          DI       0      41    1000   10000
1238          DQ       0      41      41      41
              *

1239          KK   D36iW  DIVERT
1240          KM    Divert 84% surface flow to south.
1241          DT   D36iS
1242          DI       0     100    1000   10000
1243          DQ       0      84     836    8357
              *

1244          KK   R36iW   ROUTE
1245          KM    Route surface flow west from Subbasin 36i to Subbasin 40i.
1246          RS       5    FLOW      -1
1247          RC   0.050   0.016   0.050    2610  0.0077
1248          RX       0    1.05      42   102.9   107.1     168  208.95     210
1249          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1250          KK     40i   BASIN
1251          KM    Subbasin at NEC of Camelback Rd. & 28th St.
1252          BA   0.224
1253          LG    2.53    0.25    4.10    0.58      26
1254          UC   0.754   0.670
1255          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1256          UA     100
              *

1257          KK    S40i STORAGE
1258          KM    Online local Retention Basin, 11 ac-ft.
1259          RS       1    STOR       0
1260          SV       0     2.4     6.1    10.5    15.3
1261          SE       0       1       2       3       4
1262          SS       3      50     2.7     1.5
              *

1263          KK    C40i COMBINE
1264          KM    Combine hydrographs 40i and R36iW.
1265          HC       2    0.56
              *

1266          KK   D40iW  DIVERT
1267          KM    Divert surface flow to south.
1268          DT   D40iS
1269          DI       0     100    1000   10000
1270          DQ       0      76     759    7592
              *

1271          KK   R40iW   ROUTE
1272          KM    Route surface flow west from Subbasin 40i to Subbasin 44i.
1273          RS       5    FLOW      -1
1274          RC   0.050   0.016   0.050    2715  0.0059
1275          RX       0     0.5      20      49      51      80    99.5     100
1276          RY       3       1     0.5       0       0     0.5       1       3
              *

1277          KK     44i   BASIN
1278          KM    Subbasin at NEC of Camelback Rd. & 24th St.
1279          BA   0.349
1280          LG    1.92    0.25    4.35    0.50      23
1281          UC   0.923   0.853
1282          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1283          UA     100
              *
```

```
1284          KK     42i   BASIN
1285          KM    Subbasin north of Biltmore & 28th St.
1286          BA   0.269
1287          LG    1.07    0.25    4.00    0.64       5
1288          UC   0.680   0.509
1289          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1290          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1291          KK   R42iW   ROUTE
1292          KM    Route surface flow west from Subbasin 42i to Subbasin 44i.
1293          RS       3    FLOW      -1
1294          RC   0.050   0.016   0.050    2715  0.0059
1295          RX       0     0.8      32    78.4    81.6     128   159.2     160
1296          RY       3       1     0.5       0       0     0.5       1       3
              *

1297          KK    C44i COMBINE
1298          KM    Combine hydrographs 44i, R42iW, and R40iW.
1299          HC       3    1.18
              *

1300          KK    D44i  DIVERT
1301          KM    Divert 48 cfs into pipe.
1302          DT   D44iP
1303          DI       0      48    1000   10000
1304          DQ       0      48      48      48
              *

1305          KK   D44iW  DIVERT
1306          KM    Divert surface flow to south.
1307          DT   D44iS
1308          DI       0     100    1000   10000
1309          DQ       0      50     496    4957
              *

1310          KK   R44iW   ROUTE
1311          KM    Route surface flow west from Subbasin 44i to Subbasin 48i.
1312          RS       3    FLOW      -1
1313          RC   0.050   0.016   0.050    2640  0.0053
1314          RX       0     0.8      32    78.4    81.6     128   159.2     160
1315          RY       3       1     0.5       0       0     0.5       1       3
              *

1316          KK     48i   BASIN
1317          KM    Subbasin at NEC of Camelback Rd. & 20th St.
1318          BA   0.535
1319          LG    1.55    0.25    4.35    0.45      11
1320          UC   0.942   0.745
1321          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1322          UA     100
              *

1323          KK    C48i COMBINE
1324          KM    Combine hydrographs 48i and R44iW.
1325          HC       2    1.72
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1326          KK    D48i  DIVERT
1327          KM    Divert 47 cfs into pipe.
1328          DT   D48iP
1329          DI       0      47    1000   10000
1330          DQ       0      47      47      47
              *

1331          KK   D48iW  DIVERT
1332          KM    Divert surface flow to south.
1333          DT   D48iS
1334          DI       0     100    1000   10000
1335          DQ       0      49     487    4872
              *

1336          KK   R48iW   ROUTE
1337          KM    Route surface flow west from Subbasin 48i to Subbasin 52i.
1338          RS       3    FLOW      -1
1339          RC   0.050   0.016   0.050    1660  0.0036
1340          RX       0    1.35      54   132.3   137.7     216  268.65     270
1341          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *

1342            KK  BD48iP RETRIEVE
1343            KM   Retrieve diverted pipe flow from D48iP.
1344            DR  D48iP
                *

1345            KK  P48iW   ROUTE
1346            KM   Route pipe flow from Camelback/20th St. to Camelback/SR51.
1347            RK   1550  0.0043   0.015            CIRC     3.3
                *

1348            KK  C48iW COMBINE
1349            KM   Combine hydrographs P48iW and R48iW.
1350            HC      2    1.72
                *

1351            KK    52g   BASIN
1352            KM   Subbasin at NEC of Bethany Home & SR51.
1353            BA  0.265
1354            LG   1.71    0.25    4.15    0.51      13
1355            UC  0.667   0.412
1356            UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1357            UA    100
                *

1358            KK  R52gS   ROUTE
1359            KM   Route surface flow south from Subbasin 52g to Subbasin 52i.
1360            RS      6    FLOW      -1
1361            RC  0.050   0.016   0.050    5280  0.0087
1362            RX      0     1.8      72   176.4   183.6     288   358.2     360
1363            RY      3       1     0.5       0       0     0.5       1       3
                *
1                                          HEC-1 INPUT                                          PAGE 38

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1364            KK    52i   BASIN
1365            KM   Subbasin at NEC of Camelback Rd. & SR51.
1366            BA  0.309
1367            LG   1.29    0.25    4.70    0.37      22
1368            UC  0.829   0.728
1369            UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1370            UA    100
                *

1371            KK   C52i COMBINE
1372            KM   Combine hydrographs 52i, R52gS, and C48iW.
1373            HC      3    2.29
                *

1374            KK   E52i  DIVERT
1375            KM   Divert flow into pipe for routing through offline detention basin.
1376            KM   Pipe flow = 95 cfs
1377            DT  DB52i
1378            DI      0      95    1000   10000
1379            DQ      0       0     905    9905
                *

1380            KK  BDB52iRETRIEVE
1381            KM   Retrieve diverted surface flow from DB52i.
1382            DR  DB52i
                *

1383            KK   S52i STORAGE
1384            KM   Offline Regional Detention Basin, 27 ac-ft.
1385            RS      1    STOR       0
1386            SV      0       1       5      12      21      27      33
1387            SE      0       4       8      12      16      18      20
1388            SQ      0      43      60      74      86      91     860
                *

1389            KK  CC52i COMBINE
1390            KM   Combine hydrographs B52i and S52i.
1391            HC      2    2.29
                *

1392            KK   D52i  DIVERT
1393            KM   Divert 95 cfs into pipe.
1394            DT  D52iP
1395            DI      0      95    1000   10000
1396            DQ      0      95      95      95
                *

1397            KK  R52iS   ROUTE
```

```
1398          KM    Route surface flow south from Subbasin 52i to Subbasin 52k.
1399          RS       4    FLOW      -1
1400          RC   0.050   0.016   0.050    5280  0.0038
1401          RX       0     0.5      20      49      51      80    99.5     100
1402          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE 39

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1403          KK  BD52iP RETRIEVE
1404          KM    Retrieve diverted pipe flow from D52iP.
1405          DR   D52iP
              *

1406          KK   P52iS   ROUTE
1407          KM    Route pipe flow from Camelback/SR51. to Indian School/SR51.
1408          RK    5250  0.0031   0.015            CIRC    4.50
              *

1409          KK   C52iS COMBINE
1410          KM    Combine hydrographs R52iS and P52iS.
1411          HC       2    2.29
              *

1412          KK     24k   BASIN
1413          KM    Subbasin at NEC of Indian School Rd. & 44th St.
1414          BA   0.192
1415          LG    0.60    0.25    4.60    0.40      23
1416          UC   0.652   0.517
1417          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1418          UA     100
              *

1419          KK   D24kW  DIVERT
1420          KM    Divert surface flow to south.
1421          DT   D24kS
1422          DI       0     100    1000   10000
1423          DQ       0      50     502    5018
              *

1424          KK   R24kW   ROUTE
1425          KM    Route surface flow west from Subbasin 24k to Subbasin 28k.
1426          RS       4    FLOW      -1
1427          RC   0.050   0.016   0.050    2640  0.0045
1428          RX       0    1.85      74   181.3   188.7     296  368.15     370
1429          RY       3       1     0.5       0       0     0.5       1       3
              *

1430          KK   ARC40  INFLOW
1431          KM   Inflow from Arcadia area from 40th Street through storm drain system.
1432          KM   Maximum flow 47 cfs.
1433          IN      60
1434          BA     0.1
1435          QI     0.0     0.1     0.2     0.5       1       1       1       1       1       1
1436          QI       1       1       2      47      16       5       2       1       1       1
1437          QI       1       1     0.5     0.1     0.0
              *
1                                          HEC-1 INPUT                                                    PAGE 40

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1438          KK  PARC40   ROUTE
1439          KM    Route pipe flow from Arcadia to Indian School/40th St.
1440          RK    5400  0.0050   0.015            CIRC    4.00
              *

1441          KK     28k   BASIN
1442          KM    Subbasin at NEC of Indian School Rd. & 40th St.
1443          BA   0.428
1444          LG    1.19    0.25    4.60    0.40      22
1445          UC   0.861   0.646
1446          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1447          UA     100
              *

1448          KK    C28k COMBINE
1449          KM    Combine hydrographs 28k, PARC40, and R24kW.
1450          HC       3    0.72
              *

1451          KK    D28k  DIVERT
1452          KM    Divert 131 cfs into pipe.
1453          DT   D28kP
```

```
1454          DI       0     131    1000   10000
1455          DQ       0     131     131     131
              *

1456          KK   D28kW  DIVERT
1457          KM    Divert surface flow to south.
1458          DT   D28kS
1459          DI       0     100    1000   10000
1460          DQ       0      42     424    4242
              *

1461          KK   R28kW   ROUTE
1462          KM    Route surface flow west from Subbasin 28k to Subbasin 32k.
1463          RS       4    FLOW      -1
1464          RC   0.050   0.016   0.050    2640  0.0038
1465          RX       0    1.85      74   181.3   188.7     296  368.15     370
1466          RY       3       1     0.5       0       0     0.5       1       3
              *

1467          KK     32k   BASIN
1468          KM   Subbasin at NEC of Indian School Rd. & 36th St.
1469          BA   0.506
1470          LG    1.88    0.25    4.50    0.43      21
1471          UC   1.001   0.755
1472          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1473          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1474          KK    C32k COMBINE
1475          KM    Combine hydrographs 32k and R28kW.
1476          HC       2    1.23
              *

1477          KK    D32k  DIVERT
1478          KM    Divert 45 cfs into 48" pipe.
1479          DT   D32kP
1480          DI       0      45    1000   10000
1481          DQ       0      45      45      45
              *

1482          KK   D32kW  DIVERT
1483          KM    Divert surface flow to south.
1484          DT   D32kS
1485          DI       0     100    1000   10000
1486          DQ       0      46     457    4571
              *

1487          KK   R32kW   ROUTE
1488          KM    Route surface flow west from Subbasin 32k to Subbasin 36k.
1489          RS       3    FLOW      -1
1490          RC   0.050   0.016   0.050    2640  0.0045
1491          RX       0    1.85      74   181.3   188.7     296  368.15     370
1492          RY       3       1     0.5       0       0     0.5       1       3
              *

1493          KK     36k   BASIN
1494          KM    Subbasin at NEC of Indian School Rd. & 32nd St.
1495          BA   0.508
1496          LG    1.39    0.25    4.65    0.39      24
1497          UC   0.899   0.669
1498          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1499          UA     100
              *

1500          KK  BD36iP RETRIEVE
1501          KM    Retrieve diverted pipe flow from D36iP.
1502          DR   D36iP
              *

1503          KK   P36iS   ROUTE
1504          KM    Route pipe flow from Camelback/32nd St. to Indian School/32nd St.
1505          RK    5350  0.0050   0.015            CIRC     3.0
              *

1506          KK  BD36iS RETRIEVE
1507          KM    Retrieve diverted surface flow from D36iS.
1508          DR   D36iS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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1509          KK   R36iS   ROUTE
1510          KM    Route surface flow south from Subbasin 36i to Subbasin 36k.
1511          RS       6    FLOW      -1
1512          RC   0.050   0.016   0.050    5280  0.0080
1513          RX       0    2.05      82   200.9   209.1     328  407.95     410
1514          RY       3       1     0.5       0       0     0.5       1       3

1515          KK   C36iS COMBINE
1516          KM    Combine hydrographs R36iS and P36iS.
1517          HC       2    0.34
              *

1518          KK    C36k COMBINE
1519          KM    Combine hydrographs 36k, C36iS, and R32kW.
1520          HC       3    2.07
              *

1521          KK    D36k  DIVERT
1522          KM    Divert 59 cfs into pipe.
1523          DT   D36kP
1524          DI       0      59    1000   10000
1525          DQ       0      59      59      59
              *

1526          KK   D36kW  DIVERT
1527          KM    Divert surface flow to south.
1528          DT   D36kS
1529          DI       0     100    1000   10000
1530          DQ       0      44     439    4394
              *

1531          KK   R36kW   ROUTE
1532          KM    Route surface flow west from Subbasin 36k to Subbasin 40k.
1533          RS       3    FLOW      -1
1534          RC   0.050   0.016   0.050    2640  0.0045
1535          RX       0    1.35      54   132.3   137.7     216  268.65     270
1536          RY       3       1     0.5       0       0     0.5       1       3
              *

1537          KK  BD40iS RETRIEVE
1538          KM    Retrieve diverted surface flow from D40iS.
1539          DR   D40iS
              *

1540          KK   R40iS   ROUTE
1541          KM    Route surface flow south from Subbasin 40i to Subbasin 40k.
1542          RS       8    FLOW      -1
1543          RC   0.050   0.016   0.050    5280  0.0068
1544          RX       0       1      40      98     102     160     199     200
1545          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1546          KK     40k   BASIN
1547          KM    Subbasin at NEC of Indian School Rd. & 28th St.
1548          BA   0.504
1549          LG    1.14    0.25    4.80    0.37      24
1550          UC   0.947   0.712
1551          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1552          UA     100
              *

1553          KK    C40k COMBINE
1554          KM    Combine hydrographs 40k, R40iS, and R36kW.
1555          HC       3    2.80
              *

1556          KK    D40k  DIVERT
1557          KM    Divert 29 cfs into pipe.
1558          DT   D40kP
1559          DI       0      29     100    1000   10000
1560          DQ       0      29      29      29      29
              *

1561          KK   D40kW  DIVERT
1562          KM    Divert surface flow to south.
1563          DT   D40kS
1564          DI       0     100    1000   10000
1565          DQ       0      42     421    4206
              *

1566          KK   R40kW   ROUTE
```

```
1567          KM    Route surface flow west from Subbasin 40k to Subbasin 44k.
1568          RS       3    FLOW      -1
1569          RC   0.050   0.016   0.050    2640  0.0053
1570          RX       0    1.35      54   132.3   137.7     216  268.65     270
1571          RY       3       1     0.5       0       0     0.5       1       3
              *

1572          KK     44k   BASIN
1573          KM    Subbasin at NEC of Indian School Rd. & 24th St.
1574          BA   0.508
1575          LG    1.00    0.25    4.80    0.38      32
1576          UC   0.887   0.659
1577          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1578          UA     100
              *

1579          KK  BD44iP RETRIEVE
1580          KM    Retrieve diverted pipe flow from D44iP.
1581          DR   D44iP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1582          KK   P44iS   ROUTE
1583          KM    Route pipe flow from Camelback/24th St. to Indian School/24th St.
1584          RK    5300  0.0030   0.015            CIRC    3.50
              *

1585          KK  BD44iS RETRIEVE
1586          KM    Retrieve diverted surface flow from D44iS.
1587          DR   D44iS
              *

1588          KK   R44iS   ROUTE
1589          KM    Route surface flow south from Subbasin 44i to Subbasin 44k.
1590          RS       5    FLOW      -1
1591          RC   0.050   0.016   0.050    5280  0.0064
1592          RX       0     0.5      20      49      51      80    99.5     100
1593          RY       3       1     0.5       0       0     0.5       1       3
              *

1594          KK   C44iS COMBINE
1595          KM    Combine hydrographs R44iS and P44iS.
1596          HC       2    1.18
              *

1597          KK    C44k COMBINE
1598          KM    Combine hydrographs 44k, C44iS, and R40kW.
1599          HC       3    3.93
              *

1600          KK    D44k  DIVERT
1601          KM    Divert 71 cfs into pipe.
1602          DT   D44kP
1603          DI       0      71    1000   10000
1604          DQ       0      71      71      71
              *

1605          KK   D44kW  DIVERT
1606          KM    Divert surface flow to south.
1607          DT   D44kS
1608          DI       0     100    1000   10000
1609          DQ       0      38     380    3797
              *

1610          KK   R44kW   ROUTE
1611          KM    Route surface flow west from Subbasin 44k to Subbasin 48k.
1612          RS       2    FLOW      -1
1613          RC   0.050   0.016   0.050    2640  0.0045
1614          RX       0    1.35      54   132.3   137.7     216  268.65     270
1615          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1616          KK     48k   BASIN
1617          KM    Subbasin at NEC of Indian School Rd. & 20th St.
1618          BA   0.500
1619          LG    0.82    0.25    4.80    0.38      41
1620          UC   0.920   0.692
1621          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1622          UA     100
```

```
*

KK    S48k STORAGE
KM    Online Local Retention Basin, 2 ac-ft.
RS       1    STOR       0
SV       0     0.8       2       4
SE       0       2       4       6
SS       4     100     2.7     1.5
*

KK  BD48iS RETRIEVE
KM    Retrieve diverted surface flow from D48iS.
DR   D48iS
*

KK   R48iS   ROUTE
KM    Route surface flow south from Subbasin 48i to Subbasin 48k.
RS       6    FLOW      -1
RC   0.050   0.016   0.050    5280  0.0053
RX       0     0.8      32    78.4    81.6     128   159.2     160
RY       3       1     0.5       0       0     0.5       1       3
*

KK    C48k COMBINE
KM    Combine hydrographs S48k, R48iS, and R44kW.
HC       3    4.96
*

KK   D48kW  DIVERT
KM    Divert surface flow to south.
DT   D48kS
DI       0     100    1000   10000
DQ       0      45     448    4475
*

KK   R48kW   ROUTE
KM    Route surface flow west from Subbasin 48k to Subbasin 52k.
RS       2    FLOW      -1
RC   0.050   0.016   0.050    1625  0.0049
RX       0     1.4      56   137.2   142.8     224   278.6     280
RY       3       1     0.5       0       0     0.5       1       3
*
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK     52k   BASIN
KM    Subbasin at NEC of Indian School Rd. & SR51
BA   0.295
LG    0.59    0.25    4.80    0.37      31
UC   0.945   0.865
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK    C52k COMBINE
KM    Combine hydrographs 52k, C52iS, and R48kW.
HC       3    5.83
*

KK    D52k  DIVERT
KM    Divert 201 cfs into pipe.
DT   D52kP
DI       0     100     201   10000
DQ       0     100     201     201
*

KK   D52kW  DIVERT
KM    Divert surface flow to south.
DT   D52kS
DI       0     100    1000   10000
DQ       0      45     451    4513
*

KK   R52kW   ROUTE
KM    Route surface flow west from Subbasin 52k to Subbasin 54k.
RS       1    FLOW      -1
RC   0.050   0.016   0.050    1100  0.0026
RX       0     0.8      32    78.4    81.6     128   159.2     160
RY       3       1     0.5       0       0     0.5       1       3
*

KK  BD54iP RETRIEVE
KM    Retrieve diverted pipe flow from D54iP.
DR   D54iP
```

```
                *

1681            KK   P54iS   ROUTE
1682            KM    Route pipe flow from Camelback/16th St. to Indian School/16th St.
1683            RK    5800  0.0030   0.015            CIRC     4.0
                *

1684            KK  BD54iS RETRIEVE
1685            KM    Retrieve diverted surface flow from D54iS.
1686            DR   D54iS
                *
```



```
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1687            KK   R54iS   ROUTE
1688            KM    Route surface flow south from Subbasin 54i to Subbasin 54k.
1689            RS       9    FLOW      -1
1690            RC   0.050   0.016   0.050    5800  0.0034
1691            RX       0     0.5      20      49      51      80    99.5     100
1692            RY       3       1     0.5       0       0     0.5       1       3
                *

1693            KK   C54iS COMBINE
1694            KM    Combine hydrographs R54iS and P54iS.
1695            HC       2    0.44
                *

1696            KK     54k   BASIN
1697            KM    Subbasin at NEC of Grand Canal & 16th St.
1698            BA   0.245
1699            LG    0.33    0.24    4.80    0.38      39
1700            UC   0.943   0.918
1701            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1702            UA     100
                *

1703            KK    C54k COMBINE
1704            KM    Combine hydrographs 54k, C54iS, and R52kW.
1705            HC       3    1.18
                *

1706            KK    D54k  DIVERT
1707            KM    Divert 124 cfs into pipe.
1708            DT   D54kP
1709            DI       0     100     124   10000
1710            DQ       0     100     124     124
                *

1711            KK   D54kW  DIVERT
1712            KM    Divert surface flow to south.
1713            DT   D54kS
1714            DI       0      37     118     382     658    1241
1715            DQ       0       0      40     207     393     800
                *

1716            KK   R54kW   ROUTE
1717            KM    Route surface flow west from Subbasin 54k to Subbasin 56k.
1718            RS       7    FLOW      -1
1719            RC   0.050   0.016   0.050    3500  0.0005
1720            RX       0     1.6      64   156.8   163.2     256   318.4     320
1721            RY       3       1     0.5       0       0     0.5       1       3
                *
```



```
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1722            KK  BD56iP RETRIEVE
1723            KM    Retrieve diverted pipe flow from D56iP.
1724            DR   D56iP
                *

1725            KK   P56iS   ROUTE
1726            KM    Route pipe flow from Camelback/12th St. to Grand Canal/12th St.
1727            RK    3400  0.0031   0.015            CIRC     6.0
                *

1728            KK  BD56iS RETRIEVE
1729            KM    Retrieve diverted surface flow from D56iS.
1730            DR   D56iS
                *

1731            KK   R56iS   ROUTE
1732            KM    Route surface flow south from Subbasin 56i to Subbasin 56k.
```

```
1733          RS       9    FLOW      -1
1734          RC   0.050   0.016   0.050    4200  0.0052
1735          RX       0    1.05      42   102.9   107.1     168  208.95     210
1736          RY       3       1     0.5       0       0     0.5       1       3
              *

1737          KK   C56iS COMBINE
1738          KM    Combine hydrographs R56iS and P56iS.
1739          HC       2    1.62
              *

1740          KK     56k   BASIN
1741          KM   Subbasin at NEC of Grand Canal & 12th St.
1742          BA   0.423
1743          LG    0.90    0.24    4.80    0.38      34
1744          UC   0.876   0.559
1745          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1746          UA     100
              *

1747          KK    C56k COMBINE
1748          KM    Combine hydrographs 56k, C56iS, and R54kW.
1749          HC       3    2.78
              *

1750          KK  BD60iP RETRIEVE
1751          KM    Retrieve diverted pipe flow from D60iP.
1752          DR   D60iP
              *

1753          KK  D60iP1  DIVERT
1754          KM    Divert flow into pipe.
1755          KM   Total flow for two pipes is 211 cfs, and 143 cfs going to east(P2)
1756          DT  D60iP2
1757          DI       0     211     220
1758          DQ       0     143     143
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1759          KK  P60iS1  ROUTE
1760          KM    Route pipe flow from Camelback/7th St. to Grand Canal/7th St.
1761          RK    2600  0.0031   0.015            CIRC     6.0
              *

1762          KK  B60iP2 RETRIEVE
1763          KM    Retrieve diverted pipe flow from D60iP2.
1764          DR  D60iP2
              *

1765          KK  P60iS2  ROUTE
1766          KM    Route pipe flow from Camelback/12th St. to Grand Canal/12th St.
1767          RK    2600  0.0031   0.015            CIRC     7.0
              *

1768          KK  BD60iS RETRIEVE
1769          KM    Retrieve diverted surface flow from D60iS.
1770          DR   D60iS
              *

1771          KK   R60iS   ROUTE
1772          KM    Route surface flow south from Subbasin 60i to Subbasin 60k.
1773          RS       3    FLOW      -1
1774          RC   0.050   0.016   0.050    3000  0.0047
1775          RX       0     1.3      52   127.4   132.6     208   258.7     260
1776          RY       3       1     0.5       0       0     0.5       1       3
              *

1777          KK   C60iS COMBINE
1778          KM    Combine hydrographs R60iS and P60iS.
1779          HC       3    3.02
              *

1780          KK     60k   BASIN
1781          KM    Subbasin at NEC of Grand Canal & 7th St.
1782          BA   0.266
1783          LG    0.46    0.24    4.80    0.37      36
1784          UC   0.828   0.617
1785          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1786          UA     100
              *

1787          KK    C60k COMBINE
1788          KM    Combine hydrographs 60k and C60iS.
```

```
1789          HC       2    3.29
              *

1790          KK   D60kP  DIVERT
1791          KM   Divert flow into pipe.
1792          KM   Total pipe flow is 284 (P1 = 159, P2 = 125)cfs
1793          DT    D60k
1794          DI       0     100     135    1000   10000
1795          DQ       0       0       0     865    9865
              *
1                                        HEC-1 INPUT                                                    PAGE 50

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1796          KK  D60kP1  DIVERT
1797          KM    Divert flow into pipe.
1798          KM    Flow for P1 = 10.0 cfs going east for storms greater than 2-year
1799          KM    Minimum flow to east to keep the model working
1800          DT  D60kP2
1801          DI       0     135     300
1802          DQ       0     125     290
              *

1803          KK   P60kE   ROUTE
1804          KM    Route pipe flow from Grand Canal/7th St. to Grand Canal/12th St.
1805          RK    3000  0.0030   0.015            CIRC     7.0
              *

1806          KK   CC56k COMBINE
1807          KM    Combine hydrographs C56k and P60kE.
1808          HC       2    4.46
              *

1809          KK    D56k  DIVERT
1810          KM    Divert 303 cfs into pipe.
1811          DT   D56kP
1812          DI       0     100     303   10000
1813          DQ       0     100     303     303
              *

1814          KK   D56kW  DIVERT
1815          KM    Divert surface flow to south.
1816          DT   D56kS
1817          DI       0      73     124     325     649    1102
1818          DQ       0       0      24     157     393     734
              *

1819          KK   R56kW   ROUTE
1820          KM    Route surface flow west from Subbasin 56k to Subbasin 60k.
1821          RS       5    FLOW      -1
1822          RC   0.050   0.016   0.050    3000  0.0006
1823          RX       0    0.85      34    83.3    86.7     136  169.15     170
1824          RY       3       1     0.5       0       0     0.5       1       3
              *

1825          KK   BD60k RETRIEVE
1826          KM    Retrieve diverted surface flow from D60k.
1827          DR    D60k
              *

1828          KK   CC60k COMBINE
1829          KM    Combine hydrographs D60k and R56kW.
1830          HC       2    4.46
              *
1                                        HEC-1 INPUT                                                    PAGE 51

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1831          KK   D60kW  DIVERT
1832          KM    Divert surface flow to south.
1833          DT   D60kS
1834          DI       0      49     106     362     554     788    1067
1835          DQ       0       0      36     235     390     583     814
              *

1836          KK   R60kW   ROUTE
1837          KM    Route surface flow west from Subbasin 60k to Subbasin 64k.
1838          RS       6    FLOW      -1
1839          RC   0.050   0.016   0.050    2800  0.0007
1840          RX       0     0.8      32    78.4    81.6     128   159.2     160
1841          RY       3       1     0.5       0       0     0.5       1       3
              *

1842          KK     64k   BASIN
```

```
1843          KM    Subbasin at NEC of Grand Canal & Central Ave.
1844          BA   0.206
1845          LG    1.25    0.14    7.60    0.12      31
1846          UC   0.703   0.441
1847          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1848          UA     100
              *

1849          KK  BD64iS RETRIEVE
1850          KM    Retrieve diverted surface flow from D64iS.
1851          DR   D64iS
              *

1852          KK   R64iS   ROUTE
1853          KM    Route surface flow south from Subbasin 64i to Subbasin 64k.
1854          RS       3    FLOW      -1
1855          RC   0.050   0.016   0.050    2130  0.0047
1856          RX       0    1.25      50   122.5   127.5     200  248.75     250
1857          RY       3       1     0.5       0       0     0.5       1       3
              *

1858          KK    C64k COMBINE
1859          KM    Combine hydrographs 64k, R64iS, and R60kW.
1860          HC       3    6.43
              *

1861          KK    S64k STORAGE
1862          KM    Online Regional Retention Basin, 12 ac-ft.
1863          RS       1    STOR       0
1864          SV       0      12     149
1865          SE       0     0.5     2.5
1866          SS     0.5     500     2.7     1.5
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1867          KK  BD64iP RETRIEVE
1868          KM    Retrieve diverted pipe flow from D64iP.
1869          DR   D64iP
              *

1870          KK   P64iS   ROUTE
1871          KM    Route pipe flow from Camelback/Central Ave. to Grand Canal/Central Ave.
1872          RK    2000  0.0034   0.015            CIRC     6.0
              *

1873          KK   CC64k COMBINE
1874          KM    Combine hydrographs P64iS and S64i.
1875          HC       2    6.43
              *

1876          KK    D64k  DIVERT
1877          KM    Divert 214 cfs into pipe.
1878          DT   D64kP
1879          DI       0     100     214   10000
1880          DQ       0     100     214     214
              *

1881          KK   D64kW  DIVERT
1882          KM    Divert surface flow to south.
1883          DT   D64kS
1884          DI       0     138     214     344     519    1004
1885          DQ       0       0      38     125     251     617
              *

1886          KK   R64kW   ROUTE
1887          KM    Route surface flow west from Subbasin 64k to Subbasin 68k.
1888          RS       3    FLOW      -1
1889          RC   0.050   0.016   0.050    2800  0.0008
1890          RX       0    0.75      30    73.5    76.5     120  149.25     150
1891          RY       3       1     0.5       0       0     0.5       1       3
              *

1892          KK     68k   BASIN
1893          KM    Subbasin at NEC of Grand Canal & 7th Ave.
1894          BA   0.204
1895          LG    0.79    0.14    8.40    0.09      26
1896          UC   0.751   0.461
1897          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1898          UA     100
              *

1899          KK    C68k COMBINE
1900          KM    Combine hydrographs 68k, C68iS, and R64kW.
```

```
1901          HC       3   12.71
              *
1                                        HEC-1 INPUT                                                    PAGE 53

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1902          KK    D68k  DIVERT
1903          KM    Divert 114 cfs into pipe.
1904          DT   D68kP
1905          DI       0     100     114   10000
1906          DQ       0     100     114     114
              *

1907          KK   D68kW  DIVERT
1908          KM    Divert surface flow to south.
1909          DT   D68kS
1910          DI       0      49     105     209     352     747    1283
1911          DQ       0       0      35     113     225     542     977
              *

1912          KK   R68kW   ROUTE
1913          KM    Route surface flow west from Subbasin 68k to Subbasin 72k.
1914          RS       4    FLOW      -1
1915          RC   0.050   0.016   0.050    3000  0.0007
1916          RX       0     1.1      44   107.8   112.2     176   218.9     220
1917          RY       3       1     0.5       0       0     0.5       1       3
              *

1918          KK     72k   BASIN
1919          KM   Subbasin at NEC of Grand Canal & 15th Ave.
1920          BA   0.281
1921          LG    0.66    0.14    8.40    0.09      27
1922          UC   0.821   0.518
1923          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1924          UA     100
              *

1925          KK    S72k STORAGE
1926          KM    Online Local Retention Basin, 6 ac-ft.
1927          RS       1    STOR       0
1928          SV       0       6      12
1929          SE       0       1       2
1930          SS       1     400     2.7     1.5
              *

1931          KK  B72iP1 RETRIEVE
1932          KM    Retrieve diverted pipe flow from D72iP1.
1933          DR  D72iP1
              *

1934          KK   P72iS   ROUTE
1935          KM    Route pipe flow from Camelback/15th Ave. to Grand Canal/15th Ave.
1936          RK    3300  0.0024   0.015            CIRC     6.0
              *
1                                        HEC-1 INPUT                                                    PAGE 54

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1937          KK  BD72iS RETRIEVE
1938          KM    Retrieve diverted surface flow from D72iS.
1939          DR   D72iS
              *

1940          KK   R72iS   ROUTE
1941          KM    Route surface flow south from Subbasin 72i to Subbasin 72k.
1942          RS       3    FLOW      -1
1943          RC   0.050   0.016   0.050    2900  0.0028
1944          RX       0    1.05      42   102.9   107.1     168  208.95     210
1945          RY       3       1     0.5       0       0     0.5       1       3
              *

1946          KK   C72iS COMBINE
1947          KM    Combine hydrographs P72iS and R72iS.
1948          HC       2    8.68
              *

1949          KK    C72k COMBINE
1950          KM    Combine hydrographs S72k, C72iS, and R68kW.
1951          HC       3   12.99
              *

1952          KK   CC72k COMBINE
1953          KM    Combine hydrographs D76kP2 and C72k.
1954          HC       2   12.99
```

```
                *

1955            KK    D72k  DIVERT
1956            KM    Divert 281 cfs into pipe.
1957            DT   D72kP
1958            DI       0     100     281   10000
1959            DQ       0     100     281     281
                *

1960            KK   D72kW  DIVERT
1961            KM    Divert surface flow to south.
1962            DT   D72kS
1963            DI       0      51      99     186     460     860    1108
1964            DQ       0       0      29      95     314     642     847
                *

1965            KK   R72kW   ROUTE
1966            KM    Route surface flow west from Subbasin 72k to Subbasin 76k.
1967            RS       6    FLOW      -1
1968            RC   0.050   0.016   0.050    2800  0.0004
1969            RX       0     1.1      44   107.8   112.2     176   218.9     220
1970            RY       3       1     0.5       0       0     0.5       1       3
                *
1                                          HEC-1 INPUT                                                    PAGE 55

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1971            KK   B76k1 RETRIEVE
1972            KM    Retrieve diverted surface flow from D76k1.
1973            DR   D76k1
                *

1974            KK   CC76k COMBINE
1975            KM    Combine hydrographs D76k1 and R72kW.
1976            HC       2   13.31
                *

1977            KK    D76k  DIVERT
1978            KM    Divert flow 43 (41% of 106) cfs into pipe.
1979            DT   D76kP
1980            DI       0      43     100    1000   10000
1981            DQ       0      43      43      43      43
                *

1982            KK   D76kW  DIVERT
1983            KM    Divert surface flow to south.
1984            DT   D76kS
1985            DI       0      28     132     348     669    1096
1986            DQ       0       0      76     253     519     877
                *

1987            KK   R76kW   ROUTE
1988            KM    Route surface flow west from Subbasin 76k to Subbasin 80k.
1989            RS       9    FLOW      -1
1990            RC   0.050   0.016   0.050    3500  0.0003
1991            RX       0    1.35      54   132.3   137.7     216  268.65     270
1992            RY       3       1     0.5       0       0     0.5       1       3
                *

1993            KK     80k   BASIN
1994            KM    Subbasin at NEC of Grand Canal & 23rd Ave.
1995            BA   0.428
1996            LG    0.47    0.15    8.40    0.09      26
1997            UC   0.851   0.557
1998            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
1999            UA     100
                *

2000            KK   BD80i RETRIEVE
2001            KM    Retrieve diverted surface flow from D80i.
2002            DR    D80i
                *

2003            KK   R80iS   ROUTE
2004            KM    Route surface flow south from Subbasin 80i to Subbasin 80k.
2005            RS       2    FLOW      -1
2006            RC   0.050   0.016   0.050    3500  0.0038
2007            RX       0    0.75      30    73.5    76.5     120  149.25     150
2008            RY       3       1     0.5       0       0     0.5       1       3
                *
                                           HEC-1 INPUT                                                    PAGE 56

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
2009          KK  B80kP1 RETRIEVE
2010          KM    Retrieve diverted pipe flow from D80kP1.
2011          DR  D80kP1
              *

2012          KK    C80k COMBINE
2013          KM    Combine hydrographs 80k,R80iS, and D80kP1.
2014          HC       3    3.68
              *

2015          KK    D80k  DIVERT
2016          KM    Divert 63 (59% of 106) cfs into pipe.
2017          DT   D80kP
2018          DI       0      63     100    1000   10000
2019          DQ       0      63      63      63      63
              *

2020          KK   CC80k COMBINE
2021          KM    Combine hydrographs R76kW and D80k.
2022          HC       2    4.68
              *

2023          KK   D80kW  DIVERT
2024          KM    Divert surface flow to south.
2025          DT   D80kS
2026          DI       0     152     286     833    1526
2027          DQ       0       0      41     316     721
              *

2028          KK   R80kW   ROUTE
2029          KM    Route surface flow west from Subbasin 80k to Subbasin 84k.
2030          RS       2    FLOW      -1
2031          RC   0.050   0.016   0.050    1500  0.0010
2032          RX       0    1.85      74   181.3   188.7     296  368.15     370
2033          RY       3       1     0.5       0       0     0.5       1       3
              *

2034          KK     84k   BASIN
2035          KM    Subbasin at NWC of Grand Canal & 23rd Ave.
2036          BA   0.311
2037          LG    0.57    0.15    8.40    0.09      35
2038          UC   1.056   1.086
2039          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2040          UA     100
              *

2041          KK  BD84iS RETRIEVE
2042          KM    Retrieve diverted surface flow from D84iS.
2043          DR   D84iS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2044          KK   R84iS   ROUTE
2045          KM    Route surface flow south from Subbasin 84i to Subbasin 84k.
2046          RS       9    FLOW      -1
2047          RC   0.050   0.016   0.050    6900  0.0029
2048          RX       0    0.75      30    73.5    76.5     120  149.25     150
2049          RY       3       1     0.5       0       0     0.5       1       3
              *

2050          KK    C84k COMBINE
2051          KM    Combine hydrographs 84k, R84iS, and R80kW.
2052          HC       3    4.99
              *

2053          KK   R84kS   ROUTE
2054          KM    Route surface flow south from Subbasin 84k to Subbasin 84m.
2055          RS       3    FLOW      -1
2056          RC   0.050   0.016   0.050    4570  0.0035
2057          RX       0     0.5      20      49      51      80    99.5     100
2058          RY       3       1     0.5       0       0     0.5       1       3
              *

2059          KK     84m   BASIN
2060          KM    Subbasin at NWC of Thomas Rd. & 23rd Ave.
2061          BA   0.209
2062          LG    0.24    0.15    9.70    0.06      24
2063          UC   0.875   0.889
2064          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2065          UA     100
              *

2066          KK    C84m COMBINE
```

```
2067          KM    Combine hydrographs 84m and R84kS.
2068          HC       2    5.20
              *

2069          KK     I17   BASIN
2070          KM    Subbasin for I-17 from GC to ACDC.
2071          BA   0.293
2072          LG    0.10    0.25    4.80    0.25      99
2073          UC   0.666   0.656
2074          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2075          UA     100
              *

2076          KK    D84m  DIVERT
2077          KM    Divert 249 cfs into pipe.
2078          DT   D84mP
2079          DI       0     100     249   10000
2080          DQ       0     100     249     249
              *
1                                        HEC-1 INPUT                                          PAGE 58

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2081          KK   CC84m COMBINE
2082          KM    Combine hydrographs C84m and D84m.
2083          HC       2    5.49
              *

2084          KK   D84mE  DIVERT
2085          KM    Divert surface flow to south.
2086          DT   D84mS
2087          DI       0     100    1000   10000
2088          DQ       0      38     384    3841
              *

2089          KK   R84mE   ROUTE
2090          KM    Route surface flow east from Subbasin 84m to Subbasin 80m.
2091          RS       3    FLOW      -1
2092          RC   0.050   0.016   0.050    2540  0.0008
2093          RX       0     1.3      52   127.4   132.6     208   258.7     260
2094          RY       3       1     0.5       0       0     0.5       1       3
              *

2095          KK     80m   BASIN
2096          KM    Subbasin at NWC of Thomas Rd. & 19th Ave.
2097          BA   0.541
2098          LG    0.46    0.15    8.40    0.09      26
2099          UC   0.834   0.549
2100          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2101          UA     100
              *

2102          KK  BD80kS RETRIEVE
2103          KM    Retrieve diverted surface flow from D80kS.
2104          DR   D80kS
              *

2105          KK   R80kS   ROUTE
2106          KM    Route surface flow south from Subbasin 80k to Subbasin 80m.
2107          RS       3    FLOW      -1
2108          RC   0.050   0.016   0.050    5900  0.0037
2109          RX       0       1      40      98     102     160     199     200
2110          RY       3       1     0.5       0       0     0.5       1       3
              *

2111          KK    C80m COMBINE
2112          KM    Combine hydrographs R84mE, R80kS, and 80m.
2113          HC       3    6.03
              *

2114          KK   D80mE  DIVERT
2115          KM    Divert surface flow to south.
2116          DT   D80mS
2117          DI       0     100    1000   10000
2118          DQ       0      58     576    5763
              *
1                                        HEC-1 INPUT                                          PAGE 59

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2119          KK   R80mE   ROUTE
2120          KM    Route surface flow east from Subbasin 80m to Subbasin 76m.
2121          RS       3    FLOW      -1
2122          RC   0.050   0.016   0.050    2640  0.0008
```

```
2123          RX       0     0.8      32    78.4    81.6     128   159.2     160
2124          RY       3       1     0.5       0       0     0.5       1       3
              *

2125          KK     761   BASIN
2126          KM    Subbasin at NEC of Indian School Rd. & 19th Ave.
2127          BA   0.183
2128          LG    0.66    0.15    8.80    0.07      22
2129          UC   0.550   0.279
2130          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2131          UA     100
              *

2132          KK  BD80kP RETRIEVE
2133          KM    Retrieve diverted pipe flow from D80kP.
2134          DR   D80kP
              *

2135          KK  BD76kP RETRIEVE
2136          KM    Retrieve diverted pipe flow from D76kP.
2137          DR   D76kP
              *

2138          KK   C76kP COMBINE
2139          KM    Combine hydrographs D76kP and D80kP.
2140          HC       2   17.25
              *

2141          KK   P76kS   ROUTE
2142          KM    Route pipe flow from Subbasin 80k to Indian School/19th Ave.
2143          RK    1600  0.0039   0.015            CIRC     4.5
              *

2144          KK  BD76kS RETRIEVE
2145          KM    Retrieve diverted surface flow from D76kS.
2146          DR   D76kS
              *

2147          KK   R76kS   ROUTE
2148          KM    Route surface flow south from Subbasin 76k to Subbasin 76l.
2149          RS       1    FLOW      -1
2150          RC   0.050   0.016   0.050    1700  0.0050
2151          RX       0       1      40      98     102     160     199     200
2152          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2153          KK   C76kS COMBINE
2154          KM    Combine hydrographs P76kS and R76kS.
2155          HC       2    4.68
              *

2156          KK    C76l COMBINE
2157          KM    Combine hydrographs 76l and C76kS.
2158          HC       2    4.86
              *

2159          KK    D76l  DIVERT
2160          KM    Divert 156 cfs into pipe.
2161          DT   D76lP
2162          DI       0     100     156   10000
2163          DQ       0     100     156     156
              *

2164          KK   R76lS   ROUTE
2165          KM    Route surface flow south from Subbasin 76l to Subbasin 76m.
2166          RS       3    FLOW      -1
2167          RC   0.050   0.016   0.050    5280  0.0034
2168          RX       0       1      40      98     102     160     199     200
2169          RY       3       1     0.5       0       0     0.5       1       3
              *

2170          KK  BD76lP RETRIEVE
2171          KM    Retrieve diverted pipe flow from D76lP.
2172          DR   D76lP
              *

2173          KK   P76lS   ROUTE
2174          KM    Route pipe flow from Indian School/19th Ave. to Thomas/19th Ave.
2175          RK    5300  0.0037   0.015            CIRC    5.25
              *

2176          KK   C76lS COMBINE
```

```
2177          KM    Combine hydrographs R761S and P761S.
2178          HC       2    4.86
              *

2179          KK     76m   BASIN
2180          KM    Subbasin at NWC of Thomas Rd. & 15th Ave.
2181          BA   0.492
2182          LG    0.60    0.15    8.80    0.07      24
2183          UC   0.834   0.545
2184          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2185          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2186          KK    S76m STORAGE
2187          KM    Online Local Retention Basin, 0.5 ac-ft.
2188          RS       1    STOR       0
2189          SV       0    0.47    2.27
2190          SE       0       2       4
2191          SS       2     100     2.7     1.5
              *

2192          KK    C76m COMBINE
2193          KM    Combine hydrographs R80mE, S76m, and C761S.
2194          HC       3    6.71
              *

2195          KK   D76mP  DIVERT
2196          KM    Divert flow into pipe.
2197          KM    Total Pipe flow = 191 cfs (32 cfs to east, 159 cfs to south)
2198          DT    D76m
2199          DI       0     100     191    1000   10000
2200          DQ       0       0       0     809    9809
              *

2201          KK  D76mP1  DIVERT
2202          KM    Divert flow into pipe.
2203          KM    Total Pipe flow = 191 cfs (32 cfs to east, 159 cfs to south)
2204          DT  D76mP2
2205          DI       0     191     200
2206          DQ       0      32      34
              *

2207          KK     721   BASIN
2208          KM    Subbasin at NWC of Indian School Rd. & 7th Ave.
2209          BA   0.215
2210          LG    1.24    0.15    8.80    0.07      26
2211          UC   0.947   0.843
2212          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2213          UA     100
              *

2214          KK  BD72kP RETRIEVE
2215          KM    Retrieve diverted pipe flow from D72kP.
2216          DR   D72kP
              *

2217          KK   P72kS   ROUTE
2218          KM    Route pipe flow from Grand Canal/15th Ave. to Indian School/15th Ave.
2219          RK    2850  0.0031   0.015            CIRC    6.75
              *

2220          KK  BD72kS RETRIEVE
2221          KM    Retrieve diverted surface flow from D72kS.
2222          DR   D72kS
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2223          KK   R72kS   ROUTE
2224          KM    Route surface flow south from Subbasin 72k to Subbasin 721.
2225          RS       2    FLOW      -1
2226          RC   0.050   0.016   0.050    2900  0.0034
2227          RX       0     0.5      20      49      51      80    99.5     100
2228          RY       3       1     0.5       0       0     0.5       1       3
              *

2229          KK   C72kS COMBINE
2230          KM    Combine hydrographs R72kS and P72kS.
2231          HC       2   12.99
              *
```

```
2232          KK    C721 COMBINE
2233          KM    Combine hydrographs 721 and C72kS.
2234          HC       2   13.21
              *

2235          KK    D721  DIVERT
2236          KM    Divert 305 cfs into pipe.
2237          DT   D721P
2238          DI       0     100     305   10000
2239          DQ       0     100     305     305
              *

2240          KK   R721S   ROUTE
2241          KM    Route surface flow south from Subbasin 721 to Subbasin 72m.
2242          RS       3    FLOW      -1
2243          RC   0.050   0.016   0.050    5280  0.0030
2244          RX       0    1.05      42   102.9   107.1     168  208.95     210
2245          RY       3       1     0.5       0       0     0.5       1       3
              *

2246          KK  BD721P RETRIEVE
2247          KM    Retrieve diverted pipe flow from D721P.
2248          DR   D721P
              *

2249          KK   P721S   ROUTE
2250          KM    Route pipe flow from Indian School/15th Ave. to Thomas/15th Ave.
2251          RK    5280  0.0045   0.015            CIRC    6.50
              *

2252          KK   C721S COMBINE
2253          KM    Combine hydrographs R721S and P721S.
2254          HC       2   13.21
              *

2255          KK     72m   BASIN
2256          KM    Subbasin at NWC of Thomas Rd. & 15th Ave.
2257          BA   0.468
2258          LG    0.31    0.15    8.80    0.08      27
2259          UC   0.935   0.685
2260          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2261          UA     100
              *

2262          KK    C72m COMBINE
2263          KM    Combine hydrographs 72m, C721S, and D76mP1.
2264          HC       3   13.67
              *

2265          KK     601   BASIN
2266          KM    Subbasin at NEC of Indian School Rd. & 7th St.
2267          BA   0.234
2268          LG    0.37    0.25    4.80    0.37      30
2269          UC   0.842   0.615
2270          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2271          UA     100
              *

2272          KK  B60kP2 RETRIEVE
2273          KM    Retrieve diverted pipe flow from D60kP2.
2274          DR  D60kP2
              *

2275          KK   P60kS   ROUTE
2276          KM    Route pipe flow from Grand Canal/7th St. to Indian School/7th St.
2277          RK    2750  0.0030   0.015            CIRC    4.50
              *

2278          KK  BD60kS RETRIEVE
2279          KM    Retrieve diverted surface flow from D60kS.
2280          DR   D60kS
              *

2281          KK   R60kS   ROUTE
2282          KM    Route surface flow south from Subbasin 60k to Subbasin 601.
2283          RS       2    FLOW      -1
2284          RC   0.050   0.016   0.050    1855  0.0054
2285          RX       0     0.5      20      49      51      80    99.5     100
2286          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
2287          KK   C60kS COMBINE
2288          KM    Combine hydrographs R60kS and P60kS.
2289          HC       2    4.46
              *

2290          KK    C601 COMBINE
2291          KM    Combine hydrographs C60kS and 601.
2292          HC       2    4.69
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2293          KK    D601  DIVERT
2294          KM    Divert 93 cfs into pipe.
2295          DT   D601P
2296          DI       0      93    1000   10000
2297          DQ       0      93      93      93
              *

2298          KK   D601W  DIVERT
2299          KM    Divert surface flow to south.
2300          DT   D601S
2301          DI       0     100    1000   10000
2302          DQ       0      73     727    7275
              *

2303          KK   R601W   ROUTE
2304          KM    Route surface flow west from Subbasin 601 to Subbasin 641.
2305          RS       5    FLOW      -1
2306          RC   0.050   0.016   0.050    2640  0.0008
2307          RX       0    0.75      30    73.5    76.5     120  149.25     150
2308          RY       3       1     0.5       0       0     0.5       1       3
              *

2309          KK     641   BASIN
2310          KM    Subbasin at NEC of Indian School Rd. & Central Ave.
2311          BA   0.295
2312          LG    1.36    0.15    8.00    0.11      21
2313          UC   1.129   0.870
2314          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2315          UA     100
              *

2316          KK  BD64kS RETRIEVE
2317          KM    Retrieve diverted surface flow from D64kS.
2318          DR   D64kS
              *

2319          KK   R64kS   ROUTE
2320          KM    Route surface flow south from Subbasin 64k to Subbasin 641.
2321          RS       2    FLOW      -1
2322          RC   0.050   0.016   0.050    2780  0.0043
2323          RX       0     0.5      20      49      51      80    99.5     100
2324          RY       3       1     0.5       0       0     0.5       1       3
              *

2325          KK    C641 COMBINE
2326          KM    Combine hydrographs 641, R64kS, and R601W.
2327          HC       3    6.96
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2328          KK    S641 STORAGE
2329          KM    Online Regional Retention Basin, 35 ac-ft.
2330          RS       1    STOR       0
2331          SV       0      35      92
2332          SE       0       2       4
2333          SS       2     900     2.7     1.5
              *

2334          KK  BD64kP RETRIEVE
2335          KM    Retrieve diverted pipe flow from D64kP.
2336          DR   D64kP
              *

2337          KK   P64kS   ROUTE
2338          KM    Route pipe flow from Grand Canal/Central Ave. to Indian School/Central Ave.
2339          RK    3300  0.0034   0.015            CIRC    6.00
              *

2340          KK   CC641 COMBINE
```

```
2341          KM    Combine hydrographs S641 and P64kS.
2342          HC       2    6.96
              *

2343          KK    D641  DIVERT
2344          KM    Divert 303 cfs into pipe.
2345          DT   D641P
2346          DI       0     100     303   10000
2347          DQ       0     100     303     303
              *

2348          KK   D641W  DIVERT
2349          KM    Divert surface flow to south.
2350          DT   D641S
2351          DI       0     100    1000   10000
2352          DQ       0      86     856    8565
              *

2353          KK   R641W   ROUTE
2354          KM    Route surface flow west from Subbasin 641 to Subbasin 681.
2355          RS       5    FLOW      -1
2356          RC   0.050   0.016   0.050    2980  0.0004
2357          RX       0     0.5      20      49      51      80    99.5     100
2358          RY       3       1     0.5       0       0     0.5       1       3
              *

2359          KK     681   BASIN
2360          KM    Subbasin at NEC of Indian School Rd. & 7th Ave.
2361          BA   0.317
2362          LG    0.59    0.15    8.80    0.07      26
2363          UC   0.975   0.796
2364          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2365          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2366          KK  BD68kP RETRIEVE
2367          KM    Retrieve diverted pipe flow from D68kP.
2368          DR   D68kP
              *

2369          KK   P68kS   ROUTE
2370          KM    Route pipe flow from Grand Canal/7th Ave. to Indian School/7th Ave.
2371          RK    2900  0.0034   0.015            CIRC    4.75
              *

2372          KK  BD68kS RETRIEVE
2373          KM    Retrieve diverted surface flow from D68kS.
2374          DR   D68kS
              *

2375          KK   R68kS   ROUTE
2376          KM    Route surface flow south from Subbasin 68k to Subbasin 681.
2377          RS       2    FLOW      -1
2378          RC   0.050   0.016   0.050    3290  0.0036
2379          RX       0     0.5      20      49      51      80    99.5     100
2380          RY       3       1     0.5       0       0     0.5       1       3
              *

2381          KK   C68kS COMBINE
2382          KM    Combine hydrographs R68kS and P68kS.
2383          HC       2   12.71
              *

2384          KK    C681 COMBINE
2385          KM    Combine hydrographs 681, C68kS, and R641W.
2386          HC       3   13.56
              *

2387          KK    D681  DIVERT
2388          KM    Divert 114 cfs into pipe.
2389          DT   D681P
2390          DI       0     100     114   10000
2391          DQ       0     100     114     114
              *

2392          KK   R681S   ROUTE
2393          KM    Route surface flow south from Subbasin 681 to Subbasin 68m.
2394          RS       4    FLOW      -1
2395          RC   0.050   0.016   0.050    5235  0.0027
2396          RX       0     1.3      52   127.4   132.6     208   258.7     260
2397          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
2398          KK  BD681P RETRIEVE
2399          KM   Retrieve diverted pipe flow from D681P.
2400          DR   D681P
              *
1                                        HEC-1 INPUT                                                    PAGE 67

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2401          KK   P681S   ROUTE
2402          KM   Route pipe flow from Indian School/7th Ave. to Thomas/7th Ave.
2403          RK    5300  0.0034   0.015            CIRC    4.75
              *

2404          KK   C681S COMBINE
2405          KM   Combine hydrographs R681S and P681S.
2406          HC       2   13.56
              *

2407          KK     24m   BASIN
2408          KM   Subbasin at NEC of Thomas Rd. & 44th St.
2409          BA   0.502
2410          LG    1.65    0.25    4.80    0.38      24
2411          UC   0.947   0.713
2412          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2413          UA     100
              *

2414          KK    S24m STORAGE
2415          KM   Online Local Retention Basin, 0.5 ac-ft.
2416          RS       1    STOR       0
2417          SV       0     0.5     1.2
2418          SE       0       2       4
2419          SS       2     100     2.7     1.5
              *

2420          KK  BD24kS RETRIEVE
2421          KM   Retrieve diverted surface flow from D24kS.
2422          DR   D24kS
              *

2423          KK   R24kS   ROUTE
2424          KM   Route surface flow south from Subbasin 24k to Subbasin 24m.
2425          RS       6    FLOW      -1
2426          RC   0.050   0.016   0.050    5280  0.0087
2427          RX       0    1.25      50   122.5   127.5     200  248.75     250
2428          RY       3       1     0.5       0       0     0.5       1       3
              *

2429          KK    C24m COMBINE
2430          KM   Combine hydrographs S24m and R24kS.
2431          HC       2    0.69
              *

2432          KK   D24mW  DIVERT
2433          KM   Divert surface flow to south.
2434          DT   D24mS
2435          DI       0     100    1000   10000
2436          DQ       0      43     428    4278
              *
1                                        HEC-1 INPUT                                                    PAGE 68

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2437          KK   R24mW   ROUTE
2438          KM   Route surface flow west from Subbasin 24m to Subbasin 28m.
2439          RS       3    FLOW      -1
2440          RC   0.050   0.016   0.050    2840  0.0045
2441          RX       0     1.8      72   176.4   183.6     288   358.2     360
2442          RY       3       1     0.5       0       0     0.5       1       3
              *

2443          KK     28m   BASIN
2444          KM   Subbasin at NEC of Thomas Rd. & 40th St.
2445          BA   0.508
2446          LG    1.85    0.25    4.80    0.36      22
2447          UC   0.989   0.744
2448          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2449          UA     100
              *

2450          KK  BD28kP RETRIEVE
2451          KM   Retrieve diverted pipe flow from D28kP.
2452          DR   D28kP
```

```
                *

2453            KK   P28kS   ROUTE
2454            KM    Route pipe flow from Indian School/40th St. to Thomas/40th St.
2455            RK    5300  0.0059   0.015            CIRC    4.50
                *

2456            KK  BD28kS RETRIEVE
2457            KM    Retrieve diverted surface flow from D28kS.
2458            DR   D28kS
                *

2459            KK   R28kS   ROUTE
2460            KM    Route surface flow south from Subbasin 28k to Subbasin 28m.
2461            RS       6    FLOW      -1
2462            RC   0.050   0.016   0.050    5280  0.0076
2463            RX       0       1      40      98     102     160     199     200
2464            RY       3       1     0.5       0       0     0.5       1       3
                *

2465            KK   C28kS COMBINE
2466            KM    Combine hydrographs R28kS and P28kS.
2467            HC       2    0.72
                *

2468            KK    C28m COMBINE
2469            KM    Combine hydrographs 28m, C28kS, and R24mW.
2470            HC       3    1.73
                *
1                                          HEC-1 INPUT                                                    PAGE 69

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2471            KK    D28m  DIVERT
2472            KM    Divert 211 cfs into pipe.
2473            DT   D28mP
2474            DI       0     100     211   10000
2475            DQ       0     100     211     211
                *

2476            KK   D28mW  DIVERT
2477            KM    Divert surface flow to south.
2478            DT   D28mS
2479            DI       0     100    1000   10000
2480            DQ       0      44     443    4427
                *

2481            KK   R28mW   ROUTE
2482            KM    Route surface flow west from Subbasin 28m to Subbasin 32m.
2483            RS       3    FLOW      -1
2484            RC   0.050   0.016   0.050    2640  0.0038
2485            RX       0     1.3      52   127.4   132.6     208   258.7     260
2486            RY       3       1     0.5       0       0     0.5       1       3
                *

2487            KK     32m   BASIN
2488            KM    Subbasin at NEC of Thomas Rd. & 36th St.
2489            BA   0.514
2490            LG    1.32    0.25    4.80    0.36      27
2491            UC   0.896   0.662
2492            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2493            UA     100
                *

2494            KK    S32m STORAGE
2495            KM    Online Local Retention Basin, 0.6 ac-ft.
2496            RS       1    STOR       0
2497            SV       0     0.2     0.6     1.2
2498            SE       0       2       4       6
2499            SS       4      50     2.7     1.5
                *

2500            KK  BD32kP RETRIEVE
2501            KM    Retrieve diverted pipe flow from D32kP.
2502            DR   D32kP
                *

2503            KK   P32kS   ROUTE
2504            KM    Route pipe flow from Indian School/36th St. to Thomas/36th St.
2505            RK    5400  0.0044   0.015            CIRC    4.00
                *
                                           HEC-1 INPUT                                                    PAGE 70

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
2506          KK  BD32kS RETRIEVE
2507          KM   Retrieve diverted surface flow from D32kS.
2508          DR  D32kS
              *

2509          KK  R32kS   ROUTE
2510          KM   Route surface flow south from Subbasin 32k to Subbasin 32m.
2511          RS      6    FLOW      -1
2512          RC  0.050   0.016   0.050    5280  0.0076
2513          RX      0    1.05      42   102.9   107.1     168  208.95     210
2514          RY      3       1     0.5       0       0     0.5       1       3
              *

2515          KK  C32kS COMBINE
2516          KM   Combine hydrographs R32kS and P32kS.
2517          HC      2    1.23
              *

2518          KK   C32m COMBINE
2519          KM   Combine hydrographs S32m, C32kS, and R28mW.
2520          HC      3    2.75
              *

2521          KK   D32m DIVERT
2522          KM   Divert 66 cfs into 54" pipe.
2523          DT  D32mP
2524          DI      0      66    1000   10000
2525          DQ      0      66      66      66
              *

2526          KK  D32mW  DIVERT
2527          KM   Divert surface flow to south.
2528          DT  D32mS
2529          DI      0     100    1000   10000
2530          DQ      0      43     430    4300
              *

2531          KK  R32mW   ROUTE
2532          KM   Route surface flow west from Subbasin 32m to Subbasin 36m.
2533          RS      2    FLOW      -1
2534          RC  0.050   0.016   0.050    2640  0.0023
2535          RX      0    1.35      54   132.3   137.7     216  268.65     270
2536          RY      3       1     0.5       0       0     0.5       1       3
              *

2537          KK    36m   BASIN
2538          KM   Subbasin at NEC of Thomas Rd. & 32nd St.
2539          BA  0.514
2540          LG   1.59    0.25    4.80    0.36      25
2541          UC  1.000   0.747
2542          UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2543          UA    100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2544          KK  BD36kP RETRIEVE
2545          KM   Retrieve diverted pipe flow from D36kP.
2546          DR  D36kP
              *

2547          KK  P36kS   ROUTE
2548          KM   Route pipe flow from Indian School/32nd St. to Thomas/32nd St.
2549          RK   5300  0.0046   0.015            CIRC    3.50
              *

2550          KK  BD36kS RETRIEVE
2551          KM   Retrieve diverted surface flow from D36kS.
2552          DR  D36kS
              *

2553          KK  R36kS   ROUTE
2554          KM   Route surface flow south from Subbasin 36k to Subbasin 36m.
2555          RS      3    FLOW      -1
2556          RC  0.050   0.016   0.050    5280  0.0068
2557          RX      0     0.8      32    78.4    81.6     128   159.2     160
2558          RY      3       1     0.5       0       0     0.5       1       3
              *

2559          KK  C36kS COMBINE
2560          KM   Combine hydrographs R36kS and P36kS.
2561          HC      2    2.07
              *
```

```
2562          KK    C36m COMBINE
2563          KM    Combine hydrographs 36m, C36kS, and R32mW.
2564          HC       3    4.11
              *

2565          KK    D36m  DIVERT
2566          KM    Divert 114 cfs into pipe.
2567          DT   D36mP
2568          DI       0     100     114   10000
2569          DQ       0     100     114     114
              *

2570          KK   D36mW  DIVERT
2571          KM    Divert surface flow to south.
2572          DT   D36mS
2573          DI       0     100    1000   10000
2574          DQ       0      48     480    4800
              *

2575          KK   R36mW   ROUTE
2576          KM    Route surface flow west from Subbasin 36m to Subbasin 40m.
2577          RS       2    FLOW      -1
2578          RC   0.050   0.016   0.050    2640  0.0045
2579          RX       0     1.9      76   186.2   193.8     304   378.1     380
2580          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2581          KK     40m   BASIN
2582          KM    Subbasin at NEC of Thomas Rd. & 28th St.
2583          BA   0.511
2584          LG    0.85    0.25    4.80    0.36      29
2585          UC   0.872   0.644
2586          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2587          UA     100
              *

2588          KK  BD40kP RETRIEVE
2589          KM    Retrieve diverted pipe flow from D40kP.
2590          DR   D40kP
              *

2591          KK   P40kS   ROUTE
2592          KM    Route pipe flow from Indian School/28th St. to Thomas/28th St.
2593          RK    5400  0.0041   0.015            CIRC     3.0
              *

2594          KK  BD40kS RETRIEVE
2595          KM    Retrieve diverted surface flow from D40kS.
2596          DR   D40kS
              *

2597          KK   R40kS   ROUTE
2598          KM    Route surface flow south from Subbasin 40k to Subbasin 40m.
2599          RS       5    FLOW      -1
2600          RC   0.050   0.016   0.050    5280  0.0068
2601          RX       0     0.8      32    78.4    81.6     128   159.2     160
2602          RY       3       1     0.5       0       0     0.5       1       3
              *

2603          KK   C40kS COMBINE
2604          KM    Combine hydrographs R40kS and P40kS.
2605          HC       2    2.80
              *

2606          KK    C40m COMBINE
2607          KM    Combine hydrographs 40m, C40kS, and R36mW.
2608          HC       3    5.35
              *

2609          KK    D40m  DIVERT
2610          KM    Divert 66 cfs flow into pipe.
2611          DT   D40mP
2612          DI       0      66     500    1000
2613          DQ       0      66      66      66
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2614          KK   D40mW  DIVERT
```

```
2615          KM    Divert surface flow to south.
2616          DT   D40mS
2617          DI       0      100     1000    10000
2618          DQ       0       43      430     4300
              *

2619          KK   R40mW   ROUTE
2620          KM    Route surface flow west from Subbasin 40m to Subbasin 44m.
2621          RS       3     FLOW       -1
2622          RC   0.050    0.016    0.050     2640   0.0045
2623          RX       0      1.9       76    186.2    193.8      304    378.1      380
2624          RY       3        1      0.5        0        0      0.5        1        3
              *

2625          KK     44m   BASIN
2626          KM    Subbasin at NEC of Thomas Rd. & 24th St.
2627          BA   0.504
2628          LG    1.28     0.25     4.80     0.37       27
2629          UC   0.938    0.704
2630          UA       0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
2631          UA     100
              *

2632          KK  BD44kP RETRIEVE
2633          KM    Retrieve diverted pipe flow from D44kP.
2634          DR   D44kP
              *

2635          KK   P44kS   ROUTE
2636          KM    Route pipe flow from Indian School/24th St. to Thomas/24th St.
2637          RK    5300  0.0033   0.015             CIRC     4.00
              *

2638          KK  BD44kS RETRIEVE
2639          KM    Retrieve diverted surface flow from D44kS.
2640          DR   D44kS
              *

2641          KK   R44kS   ROUTE
2642          KM    Route surface flow south from Subbasin 44k to Subbasin 44m.
2643          RS       3     FLOW       -1
2644          RC   0.050    0.016    0.050     5280   0.0064
2645          RX       0     0.75       30     73.5     76.5      120   149.25      150
2646          RY       3        1      0.5        0        0      0.5        1        3
              *

2647          KK   C44kS COMBINE
2648          KM    Combine hydrographsR44kS and P44kS.
2649          HC       2     3.93
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2650          KK    C44m COMBINE
2651          KM    Combine hydrographs 44m, C44kS, and R40mW.
2652          HC       3     6.98
              *

2653          KK    D44m  DIVERT
2654          KM    Divert 124 cfs into pipe.
2655          DT   D44mP
2656          DI       0      100      124    10000
2657          DQ       0      100      124      124
              *

2658          KK   D44mW  DIVERT
2659          KM    Divert surface flow to south.
2660          DT   D44mS
2661          DI       0      100     1000    10000
2662          DQ       0       42      424     4242
              *

2663          KK   R44mW   ROUTE
2664          KM    Route surface flow west from Subbasin 44m to Subbasin 48m.
2665          RS       2     FLOW       -1
2666          RC   0.050    0.016    0.050     2700   0.0023
2667          RX       0      2.1       84    205.8    214.2      336    417.9      420
2668          RY       3        1      0.5        0        0      0.5        1        3
              *

2669          KK     24o   BASIN
2670          KM   Subbasin at NEC of McDowell Rd. & 44th St.
2671          BA   0.504
2672          LG    1.13     0.25     4.80     0.37       30
```

```
2673          UC   0.954   0.718
2674          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2675          UA     100
              *

2676          KK  BD24mS RETRIEVE
2677          KM    Retrieve diverted surface flow from D24mS.
2678          DR   D24mS
              *

2679          KK   R24mS   ROUTE
2680          KM    Route surface flow south from Subbasin 24m to Subbasin 24o.
2681          RS       5    FLOW      -1
2682          RC   0.050   0.016   0.050    5280  0.0061
2683          RX       0    1.05      42   102.9   107.1     168  208.95     210
2684          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                          PAGE 75

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2685          KK    C24o COMBINE
2686          KM    Combine hydrographs 24o and R24mS.
2687          HC       2    1.20
              *

2688          KK    D24o  DIVERT
2689          KM    Divert 48 cfs into pipe.
2690          DT   D24oP
2691          DI       0      48    1000   10000
2692          DQ       0      48      48      48
              *

2693          KK   D24oW  DIVERT
2694          KM    Divert surface flow to south.
2695          DT   D24oS
2696          DI       0     100    1000   10000
2697          DQ       0      38     378    3782
              *

2698          KK   R24oW   ROUTE
2699          KM    Route surface flow west from Subbasin 24o to Subbasin 28o.
2700          RS       2    FLOW      -1
2701          RC   0.050   0.016   0.050    2640  0.0053
2702          RX       0    1.55      62   151.9   158.1     248  308.45     310
2703          RY       3       1     0.5       0       0     0.5       1       3
              *

2704          KK     28o   BASIN
2705          KM   Subbasin at NEC of McDowell Rd. & 40th St.
2706          BA   0.500
2707          LG    1.64    0.25    4.80    0.36      23
2708          UC   1.045   0.798
2709          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2710          UA     100
              *

2711          KK  BD28mP RETRIEVE
2712          KM    Retrieve diverted pipe flow from D28mP.
2713          DR   D28mP
              *

2714          KK   P28mS   ROUTE
2715          KM    Route pipe flow from Thomas/40th St. to McDowell/40th St.
2716          RK    5280  0.0033   0.015            CIRC    6.00
              *

2717          KK  BD28mS RETRIEVE
2718          KM    Retrieve diverted surface flow from D28mS.
2719          DR   D28mS
              *
1                                          HEC-1 INPUT                                          PAGE 76

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2720          KK   R28mS   ROUTE
2721          KM    Route surface flow south from Subbasin 28m to Subbasin 28o.
2722          RS       5    FLOW      -1
2723          RC   0.050   0.016   0.050    5280  0.0061
2724          RX       0     0.8      32    78.4    81.6     128   159.2     160
2725          RY       3       1     0.5       0       0     0.5       1       3
              *

2726          KK   C28mS COMBINE
```

```
2727          KM    Combine hydrographsR28mS and P28mS.
2728          HC       2    1.73
              *

2729          KK    C28o COMBINE
2730          KM    Combine hydrographs 28o, C28mS, and R24oW.
2731          HC       3    2.73
              *

2732          KK    D28o  DIVERT
2733          KM    Divert 367 cfs into pipe.
2734          DT   D28oP
2735          DI       0     100     367   10000
2736          DQ       0     100     367     367
              *

2737          KK   D28oW  DIVERT
2738          KM    Divert surface flow to south.
2739          DT   D28oS
2740          DI       0     100    1000   10000
2741          DQ       0      42     419    4194
              *

2742          KK   R28oW   ROUTE
2743          KM    Route surface flow west from Subbasin 28o to Subbasin 32o.
2744          RS       3    FLOW      -1
2745          RC   0.050   0.016   0.050    2640  0.0038
2746          RX       0    1.85      74   181.3   188.7     296  368.15     370
2747          RY       3       1     0.5       0       0     0.5       1       3
              *

2748          KK     32o   BASIN
2749          KM    Subbasin at NEC of McDowell Rd. & 36th St.
2750          BA   0.500
2751          LG    1.19    0.25    4.80    0.37      26
2752          UC   0.948   0.716
2753          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2754          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2755          KK  BD32mS RETRIEVE
2756          KM    Retrieve diverted surface flow from D32mS.
2757          DR   D32mS
              *

2758          KK   R32mS   ROUTE
2759          KM    Route surface flow south from Subbasin 32m to Subbasin 32o.
2760          RS       3    FLOW      -1
2761          RC   0.050   0.016   0.050    5280  0.0061
2762          RX       0       1      40      98     102     160     199     200
2763          RY       3       1     0.5       0       0     0.5       1       3
              *

2764          KK  BD32mP RETRIEVE
2765          KM    Retrieve diverted pipe flow from D32mP.
2766          DR   D32mP
              *

2767          KK   P32mS  ROUTE
2768          KM    Route pipe flow from Thomas/36th St. to McDowell/36nd St.
2769          RK    5280  0.0060   0.015            CIRC     4.5
              *

2770          KK   C32mS COMBINE
2771          KM    Combine hydrographs P32mW and R32mS.
2772          HC       2    2.75
              *

2773          KK    C32o COMBINE
2774          KM    Combine hydrographs 32o, C32mS, and R28oW.
2775          HC       3    4.25
              *

2776          KK    D32o  DIVERT
2777          KM    Divert 160 cfs flow into 72" pipe (south).
2778          DT   D32oP
2779          DI       0     160    1000   10000
2780          DQ       0     160     160     160
              *

2781          KK   D32oW  DIVERT
2782          KM    Divert surface flow to south.
```

```
2783          DT   D32oS
2784          DI       0     100    1000   10000
2785          DQ       0      44     442    4415
              *

2786          KK   R32oW   ROUTE
2787          KM    Route surface flow west from Subbasin 32o to Subbasin 36o.
2788          RS       3    FLOW      -1
2789          RC   0.050   0.016   0.050    2640  0.0030
2790          RX       0     0.8      32    78.4    81.6     128   159.2     160
2791          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE 78

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2792          KK     36o   BASIN
2793          KM    Subbasin at NEC of McDowell Rd. & 32nd St.
2794          BA   0.500
2795          LG    0.66    0.25    4.80    0.36      24
2796          UC   0.911   0.685
2797          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2798          UA     100
              *

2799          KK  BD36mP RETRIEVE
2800          KM    Retrieve diverted pipe flow from D36mP.
2801          DR   D36mP
              *

2802          KK   P36mS   ROUTE
2803          KM    Route pipe flow from Thomas/32nd St. to McDowell/32nd St.
2804          RK    5300  0.0045   0.015            CIRC    4.50
              *

2805          KK  BD36mS RETRIEVE
2806          KM    Retrieve diverted surface flow from D36mS.
2807          DR   D36mS
              *

2808          KK   R36mS   ROUTE
2809          KM    Route surface flow south from Subbasin 36m to Subbasin 36o.
2810          RS       4    FLOW      -1
2811          RC   0.050   0.016   0.050    5280  0.0057
2812          RX       0    1.25      50   122.5   127.5     200  248.75     250
2813          RY       3       1     0.5       0       0     0.5       1       3
              *

2814          KK   C36mS COMBINE
2815          KM    Combine hydrographs R36mS and P36mS.
2816          HC       2    4.11
              *

2817          KK    C36o COMBINE
2818          KM    Combine hydrographs 36o, C36mS, and R32oW.
2819          HC       3    6.12
              *

2820          KK    D36o  DIVERT
2821          KM    Divert 139 cfs into pipe.
2822          DT   D36oP
2823          DI       0     100     139   10000
2824          DQ       0     100     139     139
              *
1                                          HEC-1 INPUT                                                    PAGE 79

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2825          KK   D36oW  DIVERT
2826          KM    Divert surface flow to south.
2827          DT   D36oS
2828          DI       0     100    1000   10000
2829          DQ       0      43     430    4300
              *

2830          KK   R36oW   ROUTE
2831          KM    Route surface flow west from Subbasin 36o to Subbasin 40o.
2832          RS       3    FLOW      -1
2833          RC   0.050   0.016   0.050    2000  0.0022
2834          RX       0    1.65      66   161.7   168.3     264  328.35     330
2835          RY       3       1     0.5       0       0     0.5       1       3
              *

2836          KK   B40mP RETRIEVE
```

```
2837          KM    Retrieve diverted pipe flow from D40mP.
2838          DR   D40mP
              *

2839          KK   P40mS   ROUTE
2840          KM    Route pipe flow from Thomas/28th St. to McDowell/28th St.
2841          RK    3800  0.0041   0.015            CIRC    4.50
              *

2842          KK  BD40mS RETRIEVE
2843          KM    Retrieve diverted surface flow from D40mS.
2844          DR   D40mS
              *

2845          KK   R40mS   ROUTE
2846          KM    Route surface flow south from Subbasin 40m to Subbasin 40o.
2847          RS       5    FLOW      -1
2848          RC   0.050   0.016   0.050    4900  0.0053
2849          RX       0    1.55      62   151.9   158.1     248  308.45     310
2850          RY       3       1     0.5       0       0     0.5       1       3
              *

2851          KK   C40mS COMBINE
2852          KM    Combine hydrographs R40mS and P40mS.
2853          HC       2    5.35
              *

2854          KK     40o   BASIN
2855          KM    Subbasin at NEC of Grand Canal & 28th St.
2856          BA   0.465
2857          LG    1.13    0.24    4.80    0.36      23
2858          UC   0.920   0.636
2859          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2860          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2861          KK    C40o COMBINE
2862          KM    Combine hydrographs 40o, C40mS, and R36oW.
2863          HC       3    7.82
              *

2864          KK    D40o  DIVERT
2865          KM    Divert 70 cfs into pipe.
2866          DT   D40oP
2867          DI       0      70    1000   10000
2868          DQ       0      70      70      70
              *

2869          KK   D40oW  DIVERT
2870          KM    Divert surface flow to south.
2871          DT   D40oS
2872          DI       0      51     224     454     788    1511
2873          DQ       0       0      85     225     441     927
              *

2874          KK   R40oW   ROUTE
2875          KM    Route surface flow west from Subbasin 40o to Subbasin 44o.
2876          RS       6    FLOW      -1
2877          RC   0.050   0.016   0.050    3500  0.0012
2878          RX       0    1.35      54   132.3   137.7     216  268.65     270
2879          RY       3       1     0.5       0       0     0.5       1       3
              *

2880          KK     44o   BASIN
2881          KM    Subbasin at NEC of Grand Canal & 24th St.
2882          BA   0.229
2883          LG    1.41    0.24    4.80    0.36      21
2884          UC   0.850   0.604
2885          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2886          UA     100
              *

2887          KK  BD44mP RETRIEVE
2888          KM    Retrieve diverted pipe flow from D44mP.
2889          DR   D44mP
              *

2890          KK   P44mS   ROUTE
2891          KM    Route pipe flow from Thomas/24th St to McDowell/24th St.
2892          RK    1150  0.0030   0.015            CIRC     5.0
              *
```

```
2893          KK  BD44mS RETRIEVE
2894          KM    Retrieve diverted surface flow from D44mS.
2895          DR   D44mS
              *
                                        HEC-1 INPUT                                                    PAGE 81

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2896          KK   R44mS   ROUTE
2897          KM    Route surface flow south from Subbasin 44m to Subbasin 44o.
2898          RS       2    FLOW      -1
2899          RC   0.050   0.016   0.050    2400  0.0058
2900          RX       0     1.3      52   127.4   132.6     208   258.7     260
2901          RY       3       1     0.5       0       0     0.5       1       3
              *

2902          KK   C44mS COMBINE
2903          KM    Combine hydrographs R44mS and P44mS.
2904          HC       2    6.98
              *

2905          KK    C44o COMBINE
2906          KM    Combine hydrographs 44o, C44mS, and R40oW.
2907          HC       3    9.68
              *

2908          KK    D44o  DIVERT
2909          KM    Divert 124 cfs into pipe.
2910          DT   D44oP
2911          DI       0     100     124   10000
2912          DQ       0     100     124     124
              *

2913          KK   D44oW  DIVERT
2914          KM    Divert surface flow to south.
2915          DT   D44oS
2916          DI       0      27     198     433     769    1484
2917          DQ       0       0     119     299     561    1124
              *

2918          KK   R44oW   ROUTE
2919          KM    Route surface flow west from Subbasin 44o to Subbasin 48m.
2920          RS       8    FLOW      -1
2921          RC   0.050   0.016   0.050    4000  0.0006
2922          RX       0    1.05      42   102.9   107.1     168  208.95     210
2923          RY       3       1     0.5       0       0     0.5       1       3
              *

2924          KK   C44mW COMBINE
2925          KM    Combine hydrographs R44mW and R44oW.
2926          HC       2    9.68
              *

2927          KK     48m   BASIN
2928          KM    Subbasin at NEC of Grand Canal & 20th St.
2929          BA   0.481
2930          LG    1.04    0.24    4.80    0.36      26
2931          UC   0.906   0.613
2932          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2933          UA     100
              *
1                                       HEC-1 INPUT                                                    PAGE 82

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2934          KK  BD48kS RETRIEVE
2935          KM    Retrieve diverted surface flow from D48kS.
2936          DR   D48kS
              *

2937          KK   R48kS   ROUTE
2938          KM    Route surface flow south from Subbasin 48k to Subbasin 48m.
2939          RS       3    FLOW      -1
2940          RC   0.050   0.016   0.050    4500  0.0048
2941          RX       0    1.05      42   102.9   107.1     168  208.95     210
2942          RY       3       1     0.5       0       0     0.5       1       3
              *

2943          KK    C48m COMBINE
2944          KM    Combine hydrographs 48m, C44mW, and R48kS.
2945          HC       3   11.19
              *

2946          KK  BD52kP RETRIEVE
```

```
2947          KM    Retrieve diverted pipe flow from D52kP.
2948          DR   D52kP
              *

2949          KK   P52kS   ROUTE
2950          KM    Route pipe flow from Indian School/SR51 to Grand Canal/SR51.
2951          RK    4500  0.0030   0.015            CIRC     6.0
              *

2952          KK  BD52kS RETRIEVE
2953          KM    Retrieve diverted surface flow from D52kS.
2954          DR   D52kS
              *

2955          KK   R52kS   ROUTE
2956          KM    Route surface flow south from Subbasin 52k to Subbasin 52m.
2957          RS       2    FLOW      -1
2958          RC   0.050   0.016   0.050    2600  0.0046
2959          RX       0    0.75      30    73.5    76.5     120  149.25     150
2960          RY       3       1     0.5       0       0     0.5       1       3
              *

2961          KK   C52kS COMBINE
2962          KM    Combine hydrographs R52kS and P52kS.
2963          HC       2    5.83
              *

2964          KK     52m   BASIN
2965          KM    Subbasin at NEC of Grand Canal & SR51.
2966          BA   0.177
2967          LG    0.54    0.23    4.80    0.35      16
2968          UC   0.680   0.419
2969          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
2970          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2971          KK    C52m COMBINE
2972          KM    Combine hydrographs 52m and C52kS.
2973          HC       2    6.01
              *

2974          KK   CC52m COMBINE
2975          KM    Combine hydrographs C52m and C48m.
2976          HC       2   12.24
              *

2977          KK    D52m  DIVERT
2978          KM    Divert 364 cfs into pipe.
2979          KM    Pipe flow along 52m to south
2980          DT   D52mP
2981          DI       0     100     364   10000
2982          DQ       0     100     364     364
              *

2983          KK   D52mW  DIVERT
2984          KM   Total split flow of 48m and 52m, 10% to west
2985          DT   D52mS
2986          DI       0     100    1000   10000
2987          DQ       0      90     900    9000
              *

2988          KK   R52mW   ROUTE
2989          KM    Route surface flow west from Subbasin 52m to Subbasin 54m.
2990          RS       2    FLOW      -1
2991          RC   0.050   0.016   0.050    2650  0.0066
2992          RX       0     0.3      12    29.4    30.6      48    59.7      60
2993          RY       3       1     0.5       0       0     0.5       1       3
              *

2994          KK     54m   BASIN
2995          KM    Subbasin at NEC of Thomas Rd. & 16th St.
2996          BA   0.271
2997          LG    0.56    0.25    4.80    0.37      31
2998          UC   0.693   0.412
2999          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3000          UA     100
              *

3001          KK  BD54kP RETRIEVE
3002          KM    Retrieve diverted pipe flow from D54kP.
3003          DR   D54kP
              *
```

```
3004          KK   P54kS   ROUTE
3005          KM    Route pipe flow from Grand Canal/16th St. to Thomas/16th St.
3006          RK    5000  0.0030   0.015            CIRC     5.0
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3007          KK  BD54kS RETRIEVE
3008          KM    Retrieve diverted surface flow from D54kS.
3009          DR   D54kS
              *

3010          KK   R54kS   ROUTE
3011          KM    Route surface flow south from Subbasin 54k to Subbasin 54m.
3012          RS       3    FLOW      -1
3013          RC   0.050   0.016   0.050    4500  0.0057
3014          RX       0     0.5      20      49      51      80    99.5     100
3015          RY       3       1     0.5       0       0     0.5       1       3
              *

3016          KK   C54kS COMBINE
3017          KM    Combine hydrographs R54kS and P54kS.
3018          HC       2    1.18
              *

3019          KK    C54m COMBINE
3020          KM    Combine hydrographs 54m, C54kS, and R52mW.
3021          HC       3    1.66
              *

3022          KK    D54m  DIVERT
3023          KM    Divert 124 cfs into pipe.
3024          DT   D54mP
3025          DI       0     100     124   10000
3026          DQ       0     100     124     124
              *

3027          KK   D54mW  DIVERT
3028          KM    Divert surface flow to south.
3029          DT   D54mS
3030          DI       0     100    1000   10000
3031          DQ       0      40     400    4000
              *

3032          KK   R54mW   ROUTE
3033          KM    Route surface flow west from Subbasin 54m to Subbasin 56m.
3034          RS       2    FLOW      -1
3035          RC   0.050   0.016   0.050    2640  0.0030
3036          RX       0    1.05      42   102.9   107.1     168  208.95     210
3037          RY       3       1     0.5       0       0     0.5       1       3
              *

3038          KK     56m   BASIN
3039          KM    Subbasin at NEC of Thomas Rd. & 12th St.
3040          BA   0.576
3041          LG    0.86    0.25    4.90    0.36      26
3042          UC   1.166   0.897
3043          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3044          UA     100
              *
1                                       HEC-1 INPUT                                                    PAGE 85

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3045          KK  BD56kP RETRIEVE
3046          KM    Retrieve diverted pipe flow from D56kP.
3047          DR   D56kP
              *

3048          KK   P56kS   ROUTE
3049          KM    Route pipe flow from Grand Canal/12th St. to Thomas/12th St.
3050          RK    7350  0.0030   0.015            CIRC     7.0
              *

3051          KK  BD56kS RETRIEVE
3052          KM    Retrieve diverted surface flow from D56kS.
3053          DR   D56kS
              *

3054          KK   R56kS   ROUTE
3055          KM    Route surface flow south from Subbasin 56k to Subbasin 56m.
3056          RS       5    FLOW      -1
```

```
3057          RC   0.050   0.016   0.050    6070  0.0033
3058          RX       0     0.5      20      49      51      80    99.5     100
3059          RY       3       1     0.5       0       0     0.5       1       3
              *

3060          KK   C56kS COMBINE
3061          KM    Combine hydrographs R56kS and P56kS.
3062          HC       2    4.46
              *

3063          KK    C56m COMBINE
3064          KM    Combine hydrographs 56m, C56kS, and R54mW.
3065          HC       3    5.50
              *

3066          KK    D56m  DIVERT
3067          KM    Divert 433 cfs into pipe.
3068          DT   D56mP
3069          DI       0     100     433   10000
3070          DQ       0     100     433     433
              *

3071          KK   D56mW  DIVERT
3072          KM    Divert surface flow to south.
3073          DT   D56mS
3074          DI       0     100    1000   10000
3075          DQ       0      39     389    3892
              *

3076          KK   R56mW   ROUTE
3077          KM    Route surface flow west from Subbasin 56m to Subbasin 60m.
3078          RS       3    FLOW      -1
3079          RC   0.050   0.016   0.050    2640  0.0023
3080          RX       0     1.8      72   176.4   183.6     288   358.2     360
3081          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3082          KK     60m   BASIN
3083          KM    Subbasin at NEC of Thomas Rd. & 7th St.
3084          BA   0.500
3085          LG    0.84    0.25    5.80    0.25      16
3086          UC   1.110   0.853
3087          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3088          UA     100
              *

3089          KK  BD601P RETRIEVE
3090          KM    Retrieve diverted pipe flow from D601P.
3091          DR   D601P
              *

3092          KK   P601S   ROUTE
3093          KM    Route pipe flow from Indian School/7th St. to Thomas/7th St.
3094          RK    5300  0.0030   0.015            CIRC    4.50
              *

3095          KK  BD601S RETRIEVE
3096          KM    Retrieve diverted surface flow from D601S.
3097          DR   D601S
              *

3098          KK   R601S   ROUTE
3099          KM    Route surface flow south from Subbasin 601 to Subbasin 60m.
3100          RS       5    FLOW      -1
3101          RC   0.050   0.016   0.050    5280  0.0038
3102          RX       0     1.3      52   127.4   132.6     208   258.7     260
3103          RY       3       1     0.5       0       0     0.5       1       3
              *

3104          KK   C601S COMBINE
3105          KM    Combine hydrographs R601S and P601S.
3106          HC       2    4.69
              *

3107          KK    C60m COMBINE
3108          KM    Combine hydrographs 60m, C601S, and R56mW.
3109          HC       3    6.24
              *

3110          KK    D60m  DIVERT
3111          KM    Divert 124 cfs into pipe.
3112          DT   D60mP
```

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3113          DI       0     100     124   10000
3114          DQ       0     100     124     124
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3115          KK   D60mW  DIVERT
3116          KM    Divert surface flow to south.
3117          DT   D60mS
3118          DI       0     100    1000   10000
3119          DQ       0      52     520    5199
              *

3120          KK   R60mW   ROUTE
3121          KM    Route surface flow west from Subbasin 60m to Subbasin 64m.
3122          RS       4    FLOW      -1
3123          RC   0.050   0.016   0.050    2640  0.0008
3124          RX       0    1.55      62   151.9   158.1     248  308.45     310
3125          RY       3       1     0.5       0       0     0.5       1       3
              *

3126          KK     64m   BASIN
3127          KM    Subbasin at NEC of Thomas Rd. & Central Ave.
3128          BA   0.500
3129          LG    0.29    0.15    8.40    0.09      49
3130          UC   1.010   0.769
3131          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3132          UA     100
              *

3133          KK  BD641P RETRIEVE
3134          KM    Retrieve diverted pipe flow from D641P.
3135          DR   D641P
              *

3136          KK   P641S   ROUTE
3137          KM    Route pipe flow from Indian School/Central Ave. to Thomas/Central Ave.
3138          RK    5280  0.0030   0.015            CIRC    7.00
              *

3139          KK  BD641S RETRIEVE
3140          KM    Retrieve diverted surface flow from D641S.
3141          DR   D641S
              *

3142          KK   R641S   ROUTE
3143          KM    Route surface flow south from Subbasin 641 to Subbasin 64m.
3144          RS       8    FLOW      -1
3145          RC   0.050   0.016   0.050    5280  0.0030
3146          RX       0    1.25      50   122.5   127.5     200  248.75     250
3147          RY       3       1     0.5       0       0     0.5       1       3
              *

3148          KK   C641S COMBINE
3149          KM    Combine hydrographs R641S and P641S.
3150          HC       2    6.96
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3151          KK     68m   BASIN
3152          KM    Subbasin at NEC of Thomas Rd. & 7th Ave.
3153          BA   0.550
3154          LG    0.14    0.15    8.80    0.08      57
3155          UC   1.025   0.752
3156          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3157          UA     100
              *

3158          KK  D68mP2  DIVERT
3159          KM    Divert flow into pipe.
3160          KM    pipe flow to east = 34 cfs
3161          DT    D68m
3162          DI       0      34     100    1000   10000
3163          DQ       0       0      66     966    9966
              *

3164          KK    C64m COMBINE
3165          KM    Combine hydrographs 64m, C641S, D68mP2, and R60mW.
3166          HC       4    9.55
              *
```

```
3167          KK    D64m  DIVERT
3168          KM    Divert 399 cfs into pipe.
3169          DT   D64mP
3170          DI       0      100      399   10000
3171          DQ       0      100      399     399
              *

3172          KK   D64mW  DIVERT
3173          KM    Divert surface flow to south.
3174          DT   D64mS
3175          DI       0      100     1000   10000
3176          DQ       0       62      618    6176
              *

3177          KK   R64mW   ROUTE
3178          KM    Route surface flow west from Subbasin 64m to Subbasin 68m.
3179          RS       5     FLOW       -1
3180          RC   0.050    0.016    0.050    2640  0.0010
3181          RX       0      1.3       52   127.4   132.6     208   258.7     260
3182          RY       3        1      0.5       0       0     0.5       1       3
              *

3183          KK   BD68m RETRIEVE
3184          KM    Retrieve diverted surface flow from D68m.
3185          DR    D68m
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3186          KK    C68m COMBINE
3187          KM    Combine hydrographs C681S, D68m, and R64mW.
3188          HC       3   16.15
              *

3189          KK   D68m2  DIVERT
3190          KM    Divert 144 cfs into pipe.
3191          DT   D68mP
3192          DI       0      100      144   10000
3193          DQ       0      100      144     144
              *

3194          KK   D68mW  DIVERT
3195          KM    Divert surface flow to south.
3196          DT   D68mS
3197          DI       0      100     1000   10000
3198          DQ       0       83      830    8300
              *

3199          KK   R68mW   ROUTE
3200          KM    Route surface flow west from Subbasin 68m to Subbasin 72m.
3201          RS       5     FLOW       -1
3202          RC   0.050    0.016    0.050    2640  0.0008
3203          RX       0     1.05       42   102.9   107.1     168  208.95     210
3204          RY       3        1      0.5       0       0     0.5       1       3
              *

3205          KK   CC72m COMBINE
3206          KM    Combine hydrographs C72m and R68mW.
3207          HC       2   17.12
              *

3208          KK    D72m  DIVERT
3209          KM    Divert 308 cfs into pipe.
3210          DT   D72mP
3211          DI       0      100      308   10000
3212          DQ       0      100      308     308
              *

3213          KK   R72mS   ROUTE
3214          KM    Route surface flow south from Subbasin 72m to Subbasin 72o.
3215          RS       6     FLOW       -1
3216          RC   0.050    0.016    0.050    6900  0.0020
3217          RX       0     1.25       50   122.5   127.5     200  248.75     250
3218          RY       3        1      0.5       0       0     0.5       1       3
              *

3219          KK  BD72mP RETRIEVE
3220          KM    Retrieve diverted pipe flow from D72mP.
3221          DR   D72mP
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
3222          KK   P72mS   ROUTE
3223          KM    Route pipe flow from Thomas/15th Ave. to I-10/15th Ave.
3224          RK    6900  0.0030   0.015            CIRC     7.0
              *

3225          KK   C72mS COMBINE
3226          KM    Combine hydrographs R72mS and P72mS.
3227          HC       2   17.12
              *

3228          KK  BD24oS RETRIEVE
3229          KM    Retrieve diverted surface flow from D24oS.
3230          DR   D24oS
              *

3231          KK   R24oS   ROUTE
3232          KM    Route surface flow south from Subbasin 24o to Subbasin 28p.
3233          RS       3    FLOW      -1
3234          RC   0.050   0.016   0.050    3500  0.0081
3235          RX       0       1      40      98     102     160     199     200
3236          RY       3       1     0.5       0       0     0.5       1       3
              *

3237          KK  BD28oP RETRIEVE
3238          KM    Retrieve diverted pipe flow from D28oP.
3239          DR   D28oP
              *

3240          KK   P28oS   ROUTE
3241          KM    Route pipe flow from McDowell/40th St. to Loop 202/40th St.
3242          RK    2500  0.0044   0.015            CIRC    7.00
              *

3243          KK  BD28oS RETRIEVE
3244          KM    Retrieve diverted surface flow from D28oS.
3245          DR   D28oS
              *

3246          KK   R28oS   ROUTE
3247          KM    Route surface flow south from Subbasin 28o to Subbasin 28p.
3248          RS       2    FLOW      -1
3249          RC   0.050   0.016   0.050    2800  0.0112
3250          RX       0    1.25      50   122.5   127.5     200  248.75     250
3251          RY       3       1     0.5       0       0     0.5       1       3
              *

3252          KK   C28oS COMBINE
3253          KM    Combine hydrographs R28oS and P28oS.
3254          HC       2    2.73
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3255          KK    C28p COMBINE
3256          KM    Combine hydrographs C28oS and R24oS.
3257          HC       2    2.73
              *

3258          KK     28p   BASIN
3259          KM    Subbasin at NEC of Loop 202 & 40th St.
3260          BA   0.372
3261          LG    1.02    0.25    4.80    0.36      26
3262          UC   0.834   0.599
3263          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3264          UA     100
              *

3265          KK    S28p STORAGE
3266          KM    Online Local Retention Basin, 0.8 ac-ft.
3267          RS       1    STOR       0
3268          SV       0     0.2     0.8     1.5
3269          SE       0       2       4       6
3270          SS       4     100     2.7     1.5
              *

3271          KK   CC28p COMBINE
3272          KM    Combine hydrographs C28p and S28p.
3273          HC       2    3.11
              *

3274          KK    D28p  DIVERT
3275          KM    Divert flow into pipe.
3276          KM    Total pipe flow = 279 cfs (201 cfs to south, 68 cfs to east)
```

```
3277          DT   D28pP
3278          DI       0     100     279   10000
3279          DQ       0     100     279     279
              *

3280          KK   R28pW   ROUTE
3281          KM    Route surface flow west from Subbasin 28p to Subbasin 32p.
3282          RS       3    FLOW      -1
3283          RC   0.050   0.016   0.050    2640  0.0030
3284          RX       0     0.8      32    78.4    81.6     128   159.2     160
3285          RY       3       1     0.5       0       0     0.5       1       3
              *

3286          KK     32p   BASIN
3287          KM    Subbasin at NEC of Loop 202 & 36th St.
3288          BA   0.234
3289          LG    0.28    0.25    4.80    0.33       3
3290          UC   1.028   0.831
3291          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3292          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3293          KK  BD32oS RETRIEVE
3294          KM    Retrieve diverted surface flow from D32oS.
3295          DR   D32oS
              *

3296          KK   R32oS   ROUTE
3297          KM    Route surface flow south from Subbasin 32o to Subbasin 32p.
3298          RS       2    FLOW      -1
3299          RC   0.050   0.016   0.050    2540  0.0071
3300          RX       0     0.5      20      49      51      80    99.5     100
3301          RY       3       1     0.5       0       0     0.5       1       3
              *

3302          KK    C32p COMBINE
3303          KM    Combine hydrographs 32p and R32oS.
3304          HC       2    4.49
              *

3305          KK    S32p STORAGE
3306          KM    Online Regional Detention Basin, 57 ac-ft.
3307          RS       1    STOR       0
3308          SV       0     3.5    13.8    32.9    57.4    83.7
3309          SE       0       2       4       6       8      10
3310          SL       2   12.56    0.62     0.5
3311          SS       8      20     2.7     1.5
              *

3312          KK  BD32oP RETRIEVE
3313          KM    Retrieve diverted pipe flow from D32oP.
3314          DR   D32oP
              *

3315          KK   P32oS   ROUTE
3316          KM    Route pipe flow from McDowell/36th St. to SR202L/36th ST.
3317          RK    2500  0.0060   0.015            CIRC     6.0
              *

3318          KK   CC32p COMBINE
3319          KM    Combine hydrographs P32oS, R28pW and S32p.
3320          HC       3    4.86
              *

3321          KK   D32pW  DIVERT
3322          KM    Divert flow to pipe.
3323          DT   D32pS
3324          DI       0     100    1000   10000
3325          DQ       0      10     150     600
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3326          KK    D32p  DIVERT
3327          KM    Divert 379 cfs into pipe.
3328          DT   D32pP
3329          DI       0     100     379    1000   10000
3330          DQ       0     100     379     379     379
              *
```

```
3331          KK   R32pW   ROUTE
3332          KM    Route surface flow west from Subbasin 32p to Subbasin 36p.
3333          RS       3    FLOW      -1
3334          RC   0.050   0.016   0.050    2700  0.0022
3335          RX       0     0.5      20      49      51      80    99.5     100
3336          RY       3       1     0.5       0       0     0.5       1       3
              *

3337          KK  BD32pP RETRIEVE
3338          KM    Retrieve diverted pipe flow from D32pP.
3339          DR   D32pP
              *

3340          KK   P32pW   ROUTE
3341          KM    Route pipe flow from Loop 202/36th St. to Loop 202/32nd St.
3342          RK    2750  0.0047   0.015            CIRC     7.0
              *

3343          KK   C32pW COMBINE
3344          KM    Combine hydrographs R32pW and P32pW.
3345          HC       2    4.86
              *

3346          KK     28q   BASIN
3347          KM    Subbasin at NEC of Grand Canal & 40th St.
3348          BA   0.318
3349          LG    0.35    0.25    4.80    0.39      42
3350          UC   0.692   0.423
3351          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3352          UA     100
              *

3353          KK    S28q STORAGE
3354          KM    Online Local Retention Basin, 0.3 ac-ft.
3355          RS       1    STOR       0
3356          SV       0     0.3     0.8
3357          SE       0       2       4
3358          SS       2     100     2.7     1.5
              *

3359          KK  BD28pP RETRIEVE
3360          KM    Retrieve diverted pipe flow from D28pP.
3361          DR   D28pP
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3362          KK  D28pP1  DIVERT
3363          KM    Divert flow into pipe.
3364          DT  D28pP2
3365          DI       0     279     300
3366          DQ       0      68      75
              *

3367          KK   P28pS   ROUTE
3368          KM    Route pipe flow from Loop 202/40th St. to Grand Canal/40th St.
3369          RK    2700  0.0030   0.015            CIRC    6.00
              *

3370          KK    C28q COMBINE
3371          KM    Combine hydrographs P28pS and S28q.
3372          HC       2    0.82
              *

3373          KK    D28q  DIVERT
3374          KM    Divert flow into pipe.
3375          KM    Total pipe flow = 340 cfs (32 cfs to east,308 cfs to south)
3376          DT   D28qP
3377          DI       0     100     340   10000
3378          DQ       0     100     340     340
              *

3379          KK   D28qW  DIVERT
3380          KM    Divert surface flow to south.
3381          DT   D28qS
3382          DI       0      14      72     203     550    1348
3383          DQ       0       0      41     144     430    1103
              *

3384          KK   R28qW   ROUTE
3385          KM    Route surface flow west from Subbasin 28q to Subbasin 32q.
3386          RS       9    FLOW      -1
3387          RC   0.050   0.016   0.050    3500  0.0003
3388          RX       0    0.75      30    73.5    76.5     120  149.25     150
```

```
3389          RY       3       1     0.5       0       0     0.5       1       3
              *

3390          KK     32q   BASIN
3391          KM    Subbasin at NEC of Grand Canal & 36th St.
3392          BA   0.175
3393          LG    0.25    0.21    4.80    0.32       6
3394          UC   0.907   0.705
3395          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3396          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3397          KK  BD32pS RETRIEVE
3398          KM    Retrieve diverted surface flow from D32pS.
3399          DR   D32pS
              *

3400          KK    C32q COMBINE
3401          KM    Combine hydrographs 32q, D32pS, and R28qW.
3402          HC       3    0.99
              *

3403          KK    S32q STORAGE
3404          KM    Online Regional Detention Basin, 92 ac-ft.
3405          RS       1    STOR       0
3406          SV       0      10      24      41      59      80      92     110
3407          SE       0       4       8      12      16      20      22      24
3408          SL     1.5   7.068    0.62     0.5
3409          SS      22     750     2.7     1.5
              *

3410          KK   D32qP  DIVERT
3411          KM    Divert surface flow to southwest.
3412          KM    Basin bleed-off pipe flow = 32 cfs
3413          DT    D32q
3414          DI       0      32     100    1000   10000
3415          DQ       0       0      68     968    9968
              *

3416          KK   P32qW   ROUTE
3417          KM    Route pipe flow from Subbasin 32q to Detention Basin in 36p.
3418          RK     800  0.0031   0.015            CIRC     3.0
              *

3419          KK  C32pqW COMBINE
3420          KM    Combine hydrographs C32pW and P32qW.
3421          HC       2    4.86
              *

3422          KK     36p   BASIN
3423          KM    Subbasin at NEC of Grand Canal and Loop 202
3424          BA   0.186
3425          LG    0.72    0.22    4.80    0.36      23
3426          UC   0.752   0.529
3427          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3428          UA     100
              *

3429          KK  BD36oS RETRIEVE
3430          KM    Retrieve diverted surface flow from D36oS.
3431          DR   D36oS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3432          KK   R36oS   ROUTE
3433          KM    Route surface flow south from Subbasin 36o to 36p.
3434          RS       3    FLOW      -1
3435          RC   0.050   0.016   0.050    2500  0.0063
3436          RX       0    0.75      30    73.5    76.5     120  149.25     150
3437          RY       3       1     0.5       0       0     0.5       1       3
              *

3438          KK    C36p COMBINE
3439          KM    Combine hydrographs 36p, C32pqW, and R36oS.
3440          HC       3    6.91
              *

3441          KK    E36p  DIVERT
3442          KM    Divert flow into detention basin 40p and 36q, (Bypass 613 cfs pipe flow).
```

```
3443          DT   DB36p
3444          DI       0     100     613    1000   10000
3445          DQ       0       0       0     387    9387
              *

3446          KK  BDB36pRETRIEVE
3447          KM   Retrieve diverted flow from DB36p for offline detention.
3448          DR   DB36p
              *

3449          KK    S36p STORAGE
3450          KM    Offline Detention basins within 40p and 36q receive flows from subbasin
3451          KM    36p. They are treated as one detention basin, 68 ac-ft.
3452          RS       1    STOR       0
3453          SV       0      10      22      37      55      68      84
3454          SE       0       4       8      12      16      18      20
3455          SL       2   12.56    0.62     0.5
3456          SS      18     200     2.7     1.5
              *

3457          KK  BD36oP RETRIEVE
3458          KM    Retrieve diverted pipe flow from D36oP.
3459          DR   D36oP
              *

3460          KK   P36oS   ROUTE
3461          KM    Route pipe flow from 32nd st/McDowell to subbasin 36p.
3462          RK     900  0.0038   0.015            CIRC    5.00
              *

3463          KK   CC36p COMBINE
3464          KM    Combine hydrographs E36p, P36oS, and S36p.
3465          HC       3    6.91
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3466          KK    D36p  DIVERT
3467          KM    Divert 613 cfs into pipe (139 cfs to south, 474 cfs to west).
3468          DT   D36pP
3469          DI       0     100     613    1000   10000
3470          DQ       0     100     613     613     613
              *

3471          KK   R36pW   ROUTE
3472          KM    Route surface flow west from Subbasin 36p to 40p.
3473          RS       2    FLOW      -1
3474          RC   0.050   0.016   0.050    2640  0.0024
3475          RX       0    0.75      30    73.5    76.5     120  149.25     150
3476          RY       3       1     0.5       0       0     0.5       1       3
              *

3477          KK  BD36pP RETRIEVE
3478          KM    Retrieve diverted pipe flow from D36pP.
3479          DR   D36pP
              *

3480          KK  D36pP1  DIVERT
3481          KM    Divert flow into pipe (south).
3482          DT  D36pP2
3483          DI       0     613     620
3484          DQ       0     139     140
              *

3485          KK   P36pW   ROUTE
3486          KM    Route pipe flow from offline detention basin to subbasin 40p.
3487          RK    2700  0.0036   0.015            CIRC     8.0
              *

3488          KK   C36pW COMBINE
3489          KM    Combine hydrographs R36pW and P36pW.
3490          HC       2    6.91
              *

3491          KK     40p   BASIN
3492          KM    Subbasin at NEC of Loop 202 and 28th St
3493          BA   0.222
3494          LG    1.05    0.13    7.00    0.14      22
3495          UC   0.790   0.522
3496          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3497          UA     100
              *

3498          KK  BD40oP RETRIEVE
```

```
3499          KM   Retrieve diverted pipe flow from D40oP.
3500          DR   D40oP
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3501          KK   P40oS   ROUTE
3502          KM    Route pipe flow from 28th st/Grand Canal to subbasin 40p.
3503          RK    2800  0.0041   0.015            CIRC    5.00
              *

3504          KK  BD40oS RETRIEVE
3505          KM    Retrieve diverted surface flow from D40oS.
3506          DR   D40oS
              *

3507          KK   R40oS   ROUTE
3508          KM    Route surface flow south from Subbasin 40o to 40p.
3509          RS       3    FLOW      -1
3510          RC   0.050   0.016   0.050    2500  0.0072
3511          RX       0     1.3      52   127.4   132.6     208   258.7     260
3512          RY       3       1     0.5       0       0     0.5       1       3
              *

3513          KK   C40oS COMBINE
3514          KM    Combine hydrographs R40oS and P40oS.
3515          HC       2    7.82
              *

3516          KK    C40p COMBINE
3517          KM    Combine hydrographs 40p and C40oS.
3518          HC       3    8.83
              *

3519          KK    D40p  DIVERT
3520          KM    Divert 785 cfs to 9'x9' box (west).
3521          DT   D40pP
3522          DI       0     100     785   10000
3523          DQ       0     100     785     785
              *

3524          KK   R40pW   ROUTE
3525          KM    Route surface flow west from Subbasin 40p to 44p.
3526          RS       4    FLOW      -1
3527          RC   0.050   0.016   0.050    2640  0.0023
3528          RX       0       1      40      98     102     160     199     200
3529          RY       3       1     0.5       0       0     0.5       1       3
              *

3530          KK  BD40pP RETRIEVE
3531          KM    Retrieve diverted pipe flow from D40pP.
3532          DR   D40pP
              *

3533          KK   P40pW   ROUTE
3534          KM    Route pipe flow from 28th st/I-10 to subbasin 44p.
3535          KM    9'x9' box equals to D =10' pipe
3536          RK    2640  0.0030   0.015            CIRC    10.0
              *
1                                    HEC-1 INPUT                                                    PAGE 99

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3537          KK   C40pW COMBINE
3538          KM    Combine hydrographs R40oW and P40pW.
3539          HC       2    8.83
              *

3540          KK     44p   BASIN
3541          KM    NEC corner of Loop 202 and 24th St
3542          BA   0.407
3543          LG    0.56    0.15    7.00    0.14      25
3544          UC   0.996   0.758
3545          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3546          UA     100
              *

3547          KK  BD44oP RETRIEVE
3548          KM    Retrieve diverted pipe flow from D44oP.
3549          DR   D44oP
              *

3550          KK   P44oS   ROUTE
```

```
3551          KM    Route pipe flow from 24th st/Grand Canal to subbasin 44p.
3552          RK    5650  0.0030   0.015            CIRC    5.00
              *

3553          KK  BD44oS RETRIEVE
3554          KM    Retrieve diverted surface flow from D44oS.
3555          DR   D44oS
              *

3556          KK   R44oS   ROUTE
3557          KM    Route surface flow south from Subbasin 44o to 44p.
3558          RS       3    FLOW      -1
3559          RC   0.050   0.016   0.050    4230  0.0033
3560          RX       0       1      40      98     102     160     199     200
3561          RY       3       1     0.5       0       0     0.5       1       3
              *

3562          KK   C44oS COMBINE
3563          KM    Combine hydrographs R44oS and P44oS.
3564          HC       2    9.68
              *

3565          KK    C44p COMBINE
3566          KM    Combine hydrographs C44oS, C40pW, and 44p.
3567          HC       3   11.10
              *

3568          KK    D44p  DIVERT
3569          KM    Divert 1344 cfs into pipe (124 cfs to south, 1220 cfs to west).
3570          DT   D44pP
3571          DI       0     100    1344   10000
3572          DQ       0     100    1344    1344
              *
1                                          HEC-1 INPUT                                                    PAGE100

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3573          KK   R44pW   ROUTE
3574          KM    Route surface flow west from Subbasin 44p to 48o.
3575          RS       3    FLOW      -1
3576          RC   0.050   0.016   0.050    2640  0.0015
3577          RX       0     0.8      32    78.4    81.6     128   159.2     160
3578          RY       3       1     0.5       0       0     0.5       1       3
              *

3579          KK  BD44pP RETRIEVE
3580          KM    Retrieve diverted pipe flow from D44pP.
3581          DR   D44pP
              *

3582          KK  D44pP1  DIVERT
3583          KM    Divert flow into pipe (south).
3584          DT  D44pP2
3585          DI       0    1344    1500
3586          DQ       0     124     138
              *

3587          KK   P44pW   ROUTE
3588          KM    Route pipe flow from 24th st/McDowell to subbasin 48o.
3589          KM    11'x10' box approximately equals to 12' pipe
3590          RK    2100  0.0030   0.015            CIRC    12.0
              *

3591          KK   C44pW COMBINE
3592          KM    Combine hydrographs R44pW and P44pW.
3593          HC       2   11.10
              *

3594          KK     48o   BASIN
3595          KM    Subbasin at NEC of Loop 202 and SR51
3596          BA   0.676
3597          LG    0.74    0.17    6.80    0.16      23
3598          UC   1.005   0.616
3599          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3600          UA     100
              *

3601          KK  BD52mS RETRIEVE
3602          KM    Retrieve diverted surface flow from D52mS.
3603          DR   D52mS
              *

3604          KK   R52mS   ROUTE
3605          KM    Route surface flow south from Subbasin 52m to 48o.
3606          RS       3    FLOW      -1
```

```
3607          RC   0.050   0.016   0.050    7000  0.0026
3608          RX       0     0.5      20      49      51      80    99.5     100
3609          RY       3       1     0.5       0       0     0.5       1       3
              *
                                          HEC-1 INPUT                                                          PAGE101

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3610          KK  BD52mP RETRIEVE
3611          KM    Retrieve diverted pipe flow from D52mP.
3612          DR   D52mP
              *

3613          KK   P52mS   ROUTE
3614          KM    Route pipe flow from subbasin 52m to subbasin 48o.
3615          RK    8600  0.0030   0.015            CIRC    7.50
              *

3616          KK   C52mS COMBINE
3617          KM    Combine hydrographs R52mS and P52mS.
3618          HC       2   12.24
              *

3619          KK    C48o COMBINE
3620          KM    Combine hydrographs C52mS, C44pW, and 48o.
3621          HC       3   14.34
              *

3622          KK    E48o  DIVERT
3623          KM    Divert 2573 cfs into ADOT East Tunnel 21' pipe at Moreland St.
3624          DT   DB48o
3625          DI       0     100    1000    2573   10000
3626          DQ       0       0       0       0    7427
              *

3627          KK  BDB48o RETRIEVE
3628          KM    Retrieve diverted flow from DB48o for detention.
3629          DR   DB48o
              *

3630          KK    S48o STORAGE
3631          KM    Excess flood water at ADOT East Tunnel going west
3632          KM    through McDowell Rd after ponding, online detention basin 35 ac-ft.
3633          RS       1    STOR       0
3634          SV       0       6      35      81
3635          SE       0       2       4       6
3636          SL     0.5    7.07    0.62     0.5
3637          SS       4      50     2.7     1.5
              *

3638          KK   CC48o COMBINE
3639          KM    Combine hydrographs E48o and S48o.
3640          HC       2   14.34
              *

3641          KK    D48o  DIVERT
3642          KM    Divert 2573 cfs into ADOT East tunnel 21' pipe at Moreland St.
3643          DT  D48oPT
3644          DI       0     100    2573    5000   10000
3645          DQ       0     100    2573    2573    2573
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3646          KK   R48oW   ROUTE
3647          KM    Route surface flow west from Subbasin 48o to 52o.
3648          KM    Excess flow routing to west through McDowell Rd.
3649          RS       3    FLOW      -1
3650          RC   0.050   0.016   0.050    2640  0.0015
3651          RX       0     0.5      20      49      51      80    99.5     100
3652          RY       3       1     0.5       0       0     0.5       1       3
              *

3653          KK     52o   BASIN
3654          KM    Subbasin at NEC of I-10 and 16th St
3655          BA   0.645
3656          LG    0.42    0.25    5.80    0.23      28
3657          UC   1.058   0.751
3658          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3659          UA     100
              *

3660          KK  BD54mP RETRIEVE
```

```
3661          KM    Retrieve diverted pipe flow from D54mP.
3662          DR   D54mP
              *

3663          KK   P54mS   ROUTE
3664          KM    Route pipe flow from 16th st/Thomas to subbasin 52o.
3665          RK    6350  0.0030   0.015            CIRC    5.00
              *

3666          KK  BD54mS RETRIEVE
3667          KM    Retrieve diverted surface flow from D54mS.
3668          DR   D54mS
              *

3669          KK   R54mS   ROUTE
3670          KM    Route surface flow south from Subbasin 54m to 52o.
3671          RS       6    FLOW      -1
3672          RC   0.050   0.016   0.050    6845  0.0029
3673          RX       0     0.5      20      49      51      80    99.5     100
3674          RY       3       1     0.5       0       0     0.5       1       3
              *

3675          KK   C54mS COMBINE
3676          KM    Combine hydrographs R54mS and P54mS.
3677          HC       2    1.66
              *

3678          KK    C52o COMBINE
3679          KM    Combine hydrographs C54mS, R48oW, and 52o.
3680          HC       3    2.30
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3681          KK    D52o  DIVERT
3682          KM    Divert 517 cfs into pipe to West Tunnel.
3683          KM    72" SD at 19th St and 72" SD at 16th St, Q = 211+306 = 517 cfs
3684          DT   D52oP
3685          DI       0     100     517   10000
3686          DQ       0     100     517     517
              *

3687          KK   R52oW   ROUTE
3688          KM    Route surface flow west from Subbasin 52o to 56o.
3689          RS       6    FLOW      -1
3690          RC   0.050   0.016   0.050    2640  0.0015
3691          RX       0     1.6      64   156.8   163.2     256   318.4     320
3692          RY       3       1     0.5       0       0     0.5       1       3
              *

3693          KK  BD52oP RETRIEVE
3694          KM    Retrieve diverted pipe flow from D52oP.
3695          DR   D52oP
              *

3696          KK   P52oW   ROUTE
3697          KM    Route pipe flow from 16th st/McDowell to subbasin 56o.
3698          RK    2700  0.0031   0.015            CIRC     7.5
              *

3699          KK   C52oW COMBINE
3700          KM    Combine hydrographs R52oW and P52oW.
3701          HC       2    2.30
              *

3702          KK     56o   BASIN
3703          KM    Subbasin at NEC of I-10 and 12th St
3704          BA   0.638
3705          LG    0.29    0.25    5.00    0.33      24
3706          UC   1.149   0.841
3707          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3708          UA     100
              *

3709          KK  BD56mP RETRIEVE
3710          KM    Retrieve diverted pipe flow from D56mP.
3711          DR   D56mP
              *

3712          KK   P56mS   ROUTE
3713          KM    Route pipe flow from 12th st/Thomas to subbasin 56o.
3714          RK    6450  0.0030   0.015            CIRC    8.00
              *
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3715          KK  BD56mS RETRIEVE
3716          KM   Retrieve diverted surface flow from D56mS.
3717          DR  D56mS
              *

3718          KK  R56mS   ROUTE
3719          KM   Route surface flow south from Subbasin 56m to 56o.
3720          RS      7   FLOW      -1
3721          RC  0.050   0.016   0.050    6770  0.0024
3722          RX      0     1.1      44   107.8   112.2     176   218.9     220
3723          RY      3       1     0.5       0       0     0.5       1       3
              *

3724          KK  C56mS COMBINE
3725          KM   Combine hydrographs R56mS and P56mS.
3726          HC      2    5.50
              *

3727          KK   C56o COMBINE
3728          KM   Combine hydrographs C56mS, C52oW, and 56o.
3729          HC      3    6.79
              *

3730          KK   D56o  DIVERT
3731          KM   Divert flow into West Tunnel (517 cfs from U/S).
3732          KM   10'x6' RCB at 12th St. Q = 433+517 = 950 cfs.
3733          DT  D56oP
3734          DI      0     100    1000   10000
3735          DQ      0     100     950     950
              *

3736          KK  R56oW   ROUTE
3737          KM   Route surface flow west from Subbasin 56o to 60o.
3738          RS      3    FLOW      -1
3739          RC  0.050   0.016   0.050    2640  0.0023
3740          RX      0     1.3      52   127.4   132.6     208   258.7     260
3741          RY      3       1     0.5       0       0     0.5       1       3
              *

3742          KK  BD56oP RETRIEVE
3743          KM   Retrieve diverted pipe flow from D56oP.
3744          DR  D56oP
              *

3745          KK  P56oW   ROUTE
3746          KM   Route pipe flow from 12th st/McDowell to subbasin 60o.
3747          KM   10'x10' box approximately equals to 11.5' pipe
3748          RK   2700  0.0030   0.015            CIRC    11.5
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3749          KK  C56oW COMBINE
3750          KM   Combine hydrographs R56oW and P56oW.
3751          HC      2    6.79
              *

3752          KK    60o   BASIN
3753          KM   Subbasin at NEC of I-10 and 7th St
3754          BA  0.640
3755          LG   1.22    0.25    5.30    0.31      32
3756          UC  1.184   0.872
3757          UA      0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3758          UA    100
              *

3759          KK  BD60mP RETRIEVE
3760          KM   Retrieve diverted pipe flow from D60mP.
3761          DR  D60mP
              *

3762          KK  P60mS   ROUTE
3763          KM   Route pipe flow from 7th st/Thomas to subbasin 60o.
3764          RK   6200  0.0030   0.015            CIRC    5.00
              *

3765          KK  BD60mS RETRIEVE
3766          KM   Retrieve diverted surface flow from D60mS.
3767          DR  D60mS
              *
```

```
3768          KK   R60mS   ROUTE
3769          KM    Route surface flow south from Subbasin 60m to 60o.
3770          RS       6    FLOW      -1
3771          RC   0.050   0.016   0.050    6720  0.0024
3772          RX       0     1.3      52   127.4   132.6     208   258.7     260
3773          RY       3       1     0.5       0       0     0.5       1       3
              *

3774          KK   C60mS COMBINE
3775          KM    Combine hydrographs R60mS and P60mS.
3776          HC       2    6.24
              *

3777          KK    C60o COMBINE
3778          KM    Combine hydrographs C60mS, C56oW, and 60o.
3779          HC       3    8.16
              *

3780          KK    D60o  DIVERT
3781          KM    Divert flow into West ADOT Tunnel (950 cfs U/S).
3782          KM    84" at 7th St and 60" at 10th St, Q = 435+376 = 811+950= 1761 cfs.
3783          DT  D60oPT
3784          DI       0     100    1761   10000
3785          DQ       0     100    1761    1761
              *
1                                        HEC-1 INPUT                                                    PAGE106

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3786          KK   R60oW   ROUTE
3787          KM    Route surface flow west from Subbasin 60o to 64o.
3788          RS       6    FLOW      -1
3789          RC   0.050   0.016   0.050    2640  0.0015
3790          RX       0    1.05      42   102.9   107.1     168  208.95     210
3791          RY       3       1     0.5       0       0     0.5       1       3
              *

3792          KK     64o   BASIN
3793          KM    Subbasin at NEC of I-10 and Central
3794          BA   0.651
3795          LG    1.21    0.25    5.80    0.25      44
3796          UC   1.248   0.885
3797          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3798          UA     100
              *

3799          KK    S64o STORAGE
3800          KM    Online Detention Basin 1 ac-ft.
3801          RS       1    STOR       0
3802          SV       0    0.25       1       3
3803          SE       0       2       4       6
3804          SQ       0       8      11     600
              *

3805          KK  BD64mP RETRIEVE
3806          KM    Retrieve diverted pipe flow from D64mP.
3807          DR   D64mP
              *

3808          KK   P64mS   ROUTE
3809          KM    Route pipe flow from Central/Thomas to subbasin 64o.
3810          RK    6450  0.0025   0.015            CIRC    8.00
              *

3811          KK  BD64mS RETRIEVE
3812          KM    Retrieve diverted surface flow from D64mS.
3813          DR   D64mS
              *

3814          KK   R64mS   ROUTE
3815          KM    Route surface flow south from Subbasin 64m to 64o.
3816          RS       8    FLOW      -1
3817          RC   0.050   0.016   0.050    6860  0.0020
3818          RX       0    1.05      42   102.9   107.1     168  208.95     210
3819          RY       3       1     0.5       0       0     0.5       1       3
              *

3820          KK   C64mS COMBINE
3821          KM    Combine hydrographs R64mS and P64mS.
3822          HC       2    9.55
              *
1                                        HEC-1 INPUT                                                    PAGE107

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
3823          KK    C64o COMBINE
3824          KM    Combine flows of C64mS, S64o,and R60oW
3825          HC       3   12.13
              *

3826          KK    D64o  DIVERT
3827          KM    Divert flow to ADOT West Tunnel (south).
3828          KM    96" SD at Central and 8'x7' RCB at 3rd Ave. Q =535+500=1035 cfs.
3829          DT  D64oPT
3830          DI       0     100    1035    2000   10000
3831          DQ       0     100    1035    1035    1035
              *

3832          KK   R64oW   ROUTE
3833          KM    Route surface flow west from Subbasin 64o to 68o.
3834          RS       2    FLOW      -1
3835          RC   0.050   0.016   0.050    2640  0.0015
3836          RX       0    1.05      42   102.9   107.1     168  208.95     210
3837          RY       3       1     0.5       0       0     0.5       1       3
              *

3838          KK     68o   BASIN
3839          KM    Subbasin at NEC of I-10 & 7th Ave.
3840          BA   0.688
3841          LG    0.21    0.17    6.80    0.16      25
3842          UC   1.180   0.805
3843          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3844          UA     100
              *

3845          KK    S68o STORAGE
3846          KM    Online Local Retention Basin, 13 ac-ft.
3847          RS       1    STOR       0
3848          SV       0       4      13      25
3849          SE       0       2       4       6
3850          SS       4     100     2.7     1.5
              *

3851          KK  BD68mP RETRIEVE
3852          KM    Retrieve diverted pipe flow from D68mP.
3853          DR   D68mP
              *

3854          KK   P68mS   ROUTE
3855          KM    Route pipe flow from Thomas/7th Ave. to I-10/7th Ave.
3856          RK    6800   0.002   0.015            CIRC     4.0
              *

3857          KK  BD68mS RETRIEVE
3858          KM    Retrieve diverted surface flow from D68mS.
3859          DR   D68mS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3860          KK   R68mS   ROUTE
3861          KM    Route surface flow south from Subbasin 68m to Subbasin 68o.
3862          RS       7    FLOW      -1
3863          RC   0.050   0.016   0.050    6780  0.0021
3864          RX       0     1.3      52   127.4   132.6     208   258.7     260
3865          RY       3       1     0.5       0       0     0.5       1       3
              *

3866          KK   C68mS COMBINE
3867          KM    Combine hydrographs R68mS and P68mS.
3868          HC       2   16.15
              *

3869          KK    C68o COMBINE
3870          KM    Combine hydrographs S68o, C68mS, and R64oW.
3871          HC       3   16.84
              *

3872          KK    D68o  DIVERT
3873          KM     Divert flow into ADOT west Tunnel storm water interceptor 14'
3874          KM     96" SD at 7th Ave and 96" SD at 3rd Ave.  Q = 433 + 510 = 943 cfs
3875          DT  D68oPT
3876          DI       0     100     943    2000   10000
3877          DQ       0     100     943     943     943
              *

3878          KK   R68oW   ROUTE
```

```
3879          KM    Route surface flow west from Subbasin 68o to 72o.
3880          RS       6    FLOW       -1
3881          RC   0.050   0.016   0.050    2640  0.0015
3882          RX       0    1.05      42   102.9   107.1     168  208.95     210
3883          RY       3       1     0.5       0       0     0.5       1       3
              *

3884          KK     72o   BASIN
3885          KM    Subbasin at NEC of I-10 & 15th Ave.
3886          BA   0.662
3887          LG    0.41    0.15    8.80    0.08      12
3888          UC   1.097   0.709
3889          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3890          UA     100
              *

3891          KK    C72o COMBINE
3892          KM    Combine hydrographs 72o, R68oW, and C72mS
3893          HC       3   17.78
              *

3894          KK    D72o  DIVERT
3895          KM    Diver 433 cfs into storm drain
3896          DT   D72oP
3897          DI       0     100     433    1000   10000
3898          DQ       0     100     433     433     433
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3899          KK    S72o STORAGE
3900          KM    ADOT West Tunnel Inlet Basin - Online Regional Detention Basin.
3901          RS       1    STOR       0
3902          SV       0     0.2       2       3     4.3     6.2     8.9      50
3903          SE       0       2       6       8      10      12      14      16
3904          SQ       0      50     250     380     530    1148    2156    3703
              *

3905          KK  D72oPT  DIVERT
3906          KM    Divert flow into West Tunnel
3907          DT   D72o1
3908          DI       0      50     250     380     530    1148    2156    3703
3909          DQ       0       0       0       0       0     458    1296    2763
              *

3910          KK  PT72oE   ROUTE
3911          KM    14' pipe to ADOT West Tunnel from I-10/15th Ave. to I-10/7th Ave.
3912          RK    2600  0.0030   0.015            CIRC    14.0
              *

3913          KK  B68oPT RETRIEVE
3914          KM    Retrieve diverted pipe flow from D68oPT.
3915          DR  D68oPT
              *

3916          KK  CPT68o COMBINE
3917          KM    Combine hydrographs PT72oE and D68oPT in the North Tunnel.
3918          HC       2   18.47
              *

3919          KK  PT68oE   ROUTE
3920          KM    Route pipe flow from I-10/7th Ave. to I-10/Central Ave.
3921          RK     850  0.0030   0.015            CIRC    14.0
              *

3922          KK  BD72o1 RETRIEVE
3923          KM    Retrieve diverted surface flow from D72o1.
3924          DR   D72o1
              *

3925          KK   D72oE  DIVERT
3926          KM    Divert flow overtopping West Tunnel Inlet Basin east and west,
3927          KM    East flow into I-10 depressed segment
3928          DT   D72oW
3929          DI       0     100     458    1296    2763
3930          DQ       0       0       0       0     382
              *

3931          KK   S-I10 STORAGE
3932          KM    Routing through I-10 depressed segment as a detention basin
3933          KM    Flood water within the depressed area is pumped into ADOT
3934          KM    West Tunnel.  Two Pump Stations with total flow = 350 cfs, 1252 ac-ft.
3935          RS       1    STOR       0
3936          SV       0      10      62     160     287     602     997    1252    1539
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3937          SE       0       1       4       8      12      20      28      32      36
3938          SQ       0      50     175     350     350     350     350     350    4820
              *

3939          KK  B64oPT RETRIEVE
3940          KM    Retrieve diverted pipe flow from D64oPT.
3941          DR  D64oPT
              *

3942          KK  B60oPT RETRIEVE
3943          KM    Retrieve diverted pipe flow from D60oPT.
3944          DR  D60oPT
              *

3945          KK  PT60oW   ROUTE
3946          KM    Route pipe flow from 7th st/I-10 to 3rd st/I-10, subbasin 64o.
3947          RK    2800  0.0030   0.015            CIRC    14.0
              *

3948          KK    C-WT COMBINE
3949          KM    Total flow into ADOT west tunnel at 3rd st/I-10,
3950          KM    Combine hydrographs S-I10, PT68oE, PT60oW, and D64oPT.
3951          HC       4   21.04
              *

3952          KK   PT64o   ROUTE
3953          KM    Route ADOT West Tunnel flow from 3rd st/I-10 through subbasin 64q.
3954          RK    3800   0.002   0.015            CIRC    21.0
              *

3955          KK  DN_64o  DIVERT
3956          KM    Divert all flow to West Tunnel ( to free up a HEC-1 hydrograph path).
3957          DT  DPT64o
3958          DI       0     100    1000   10000
3959          DQ       0     100    1000   10000
              *

3960          KK     36q   BASIN
3961          KM    Subbasin at NEC of Van Buren and 32nd St
3962          BA   0.267
3963          LG    0.26    0.15    9.70    0.06      25
3964          UC   0.727   0.542
3965          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
3966          UA     100
              *

3967          KK   BD32q RETRIEVE
3968          KM    Retrieve diverted surface flow from D32q.
3969          DR    D32q
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3970          KK   R32qS   ROUTE
3971          KM    Route surface flow west from Subbasin 32q to 36q.
3972          RS       3    FLOW      -1
3973          RC   0.050   0.016   0.050    3600  0.0044
3974          RX       0     0.5      20      49      51      80    99.5     100
3975          RY       3       1     0.5       0       0     0.5       1       3
              *

3976          KK  B36pP2 RETRIEVE
3977          KM    Retrieve diverted pipe flow from D36pP2.
3978          DR  D36pP2
              *

3979          KK   P36pS   ROUTE
3980          KM    Route pipe flow from 32nd st/SR-202 to subbasin 36q.
3981          KM    Pipe size needs check
3982          RK    4500  0.0036   0.015            CIRC     5.0
              *

3983          KK    C36q COMBINE
3984          KM    Combine hydrographs D32pS, R28qW, and 36q.
3985          HC       3    1.56
              *

3986          KK    D36q  DIVERT
3987          KM    Divert 295 cfs into pipe (south).
3988          DT   D36qP
```

```
3989          DI       0     100     295   10000
3990          DQ       0     100     295     295
              *

3991          KK   D36qW  DIVERT
3992          KM    Divert 43% of surface flow south.
3993          DT   D36qS
3994          DI       0     100    1000   10000
3995          DQ       0      43     428    4276
              *

3996          KK   R36qW   ROUTE
3997          KM    Route surface flow west from Subbasin 36q to 40q.
3998          RS       5    FLOW      -1
3999          RC   0.050   0.016   0.050    2640  0.0023
4000          RX       0     1.3      52   127.4   132.6     208   258.7     260
4001          RY       3       1     0.5       0       0     0.5       1       3
              *

4002          KK     40q   BASIN
4003          KM    Subbasin at NEC of Van Buren and 28th St
4004          BA   0.349
4005          LG    0.31    0.15    9.70    0.06      29
4006          UC   0.796   0.577
4007          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4008          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE112

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4009          KK    C40q COMBINE
4010          KM    Combine hydrographs R36qW and 40q.
4011          HC       2    1.91
              *

4012          KK    D40q  DIVERT
4013          KM    Divert 32 cfs into pipe (west).
4014          DT   D40qP
4015          DI       0      32    1000   10000
4016          DQ       0      32      32      32
              *

4017          KK   D40qW  DIVERT
4018          KM    Divert 61% of surface flow to south.
4019          DT   D40qS
4020          DI       0     100    1000   10000
4021          DQ       0      61     608    6077
              *

4022          KK   R40qW   ROUTE
4023          KM    Route surface flow west from Subbasin 40q to 44q.
4024          RS       5    FLOW      -1
4025          RC   0.050   0.016   0.050    2640  0.0015
4026          RX       0    1.05      42   102.9   107.1     168  208.95     210
4027          RY       3       1     0.5       0       0     0.5       1       3
              *

4028          KK  BD40qP RETRIEVE
4029          KM    Retrieve diverted pipe flow from D40qP.
4030          DR   D40qP
              *

4031          KK   P40qW   ROUTE
4032          KM    Route pipe flow from 28th st/Van Buren to subbasin 44q.
4033          RK    2700  0.0031   0.015             CIRC     3.0
              *

4034          KK   C40qW COMBINE
4035          KM    Combine hydrographs R40qW and P40qW.
4036          HC       2    1.91
              *

4037          KK     44q   BASIN
4038          KM    Subbasin at NEC of Van Bure24th St
4039          BA   0.359
4040          LG    0.33    0.15    9.70    0.06      49
4041          UC   0.815   0.628
4042          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4043          UA     100
              *
                                           HEC-1 INPUT                                          PAGE113

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
4044          KK  B44pP2 RETRIEVE
4045          KM    Retrieve diverted pipe flow from D44pP2.
4046          DR  D44pP2
              *

4047          KK   P44pS   ROUTE
4048          KM    Route pipe flow from 24th st/McDowell to subbasin 44q.
4049          RK    3700  0.0030   0.015            CIRC    5.00
              *

4050          KK    C44q COMBINE
4051          KM    Combine hydrographs C40qW, 44q, and P44pS.
4052          HC       3    2.57
              *

4053          KK    D44q  DIVERT
4054          KM    Divert 201 cfs into pipe (south).
4055          DT   D44qP
4056          DI       0     100     201   10000
4057          DQ       0     100     201     201
              *

4058          KK   D44qW  DIVERT
4059          KM    Divert 62% of surface flow to south.
4060          DT   D44qS
4061          DI       0     100    1000   10000
4062          DQ       0      62     621    6211
              *

4063          KK   R44qW   ROUTE
4064          KM    Route surface flow west from Subbasin 44q to 48q.
4065          RS       3    FLOW      -1
4066          RC   0.050   0.016   0.050    2500  0.0018
4067          RX       0     0.8      32    78.4    81.6     128   159.2     160
4068          RY       3       1     0.5       0       0     0.5       1       3
              *

4069          KK     48q   BASIN
4070          KM    Subbasin at NEC of Van Buren and I-10
4071          BA   0.300
4072          LG    0.25    0.15    9.70    0.06      24
4073          UC   0.908   0.728
4074          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4075          UA     100
              *

4076          KK    C48q COMBINE
4077          KM    Combine hydrographs R44qW and 48q.
4078          HC       2    2.87
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4079          KK   DB48q  DIVERT
4080          KM    Divert flow into East ADOT Tunnel.
4081          KM    78" SD at Pierce St and 96" SD at Taylor St. Q = 245+368=613 cfs.
4082          DT  D48qPT
4083          DI       0     100     613    1000   10000
4084          DQ       0     100     613     613     613
              *

4085          KK    S48q STORAGE
4086          KM    Online detention basin, 5 ac-ft.
4087          RS       1    STOR       0
4088          SV       0       2       4     5.2       8
4089          SE       0       2       4       5       7
4090          SQ       0      30      43      48     438
              *

4091          KK   D48qW  DIVERT
4092          KM    Divert 59% of flow to south.
4093          DT   D48qS
4094          DI       0     100    1000   10000
4095          DQ       0      59     590    5900
              *

4096          KK   R48qW   ROUTE
4097          KM    Route surface flow west from Subbasin 48q to 52q.
4098          RS       2    FLOW      -1
4099          RC   0.050   0.016   0.050    3050  0.0020
4100          RX       0     0.8      32    78.4    81.6     128   159.2     160
4101          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
4102          KK     52q   BASIN
4103          KM    Subbasin at NEC of Van Buren and 16th St
4104          BA   0.394
4105          LG    0.43    0.15    8.80    0.08      35
4106          UC   1.006   0.767
4107          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4108          UA     100
              *

4109          KK    C52q COMBINE
4110          KM    Combine hydrographs D48qW and 52q.
4111          HC       2    0.39
              *

4112          KK    D52q  DIVERT
4113          KM    Divert 191 cfs into pipe (south).
4114          DT   D52qP
4115          DI       0     100     191   10000
4116          DQ       0     100     191     191
              *
1                                        HEC-1 INPUT                                          PAGE115

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4117          KK   D52qW  DIVERT
4118          KM    Divert 51% of surface flow to south.
4119          DT   D52qS
4120          DI       0     100    1000   10000
4121          DQ       0      51     510    5100
              *

4122          KK   R52qW   ROUTE
4123          KM    Route surface flow west from Subbasin 52q to 56q.
4124          RS       7    FLOW      -1
4125          RC   0.050   0.016   0.050    2640  0.0015
4126          RX       0     1.6      64   156.8   163.2     256   318.4     320
4127          RY       3       1     0.5       0       0     0.5       1       3
              *

4128          KK     56q   BASIN
4129          KM    Subbasin at NEC of Van Buren and 12th St
4130          BA   0.354
4131          LG    0.24    0.25    6.00    0.21      22
4132          UC   0.987   0.696
4133          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4134          UA     100
              *

4135          KK    C56q COMBINE
4136          KM    Combine hydrographs R52qW and 56q.
4137          HC       2    0.75
              *

4138          KK    D56q  DIVERT
4139          KM    Divert 68 cfs into pipe (south).
4140          DT   D56qP
4141          DI       0      68    1000   10000
4142          DQ       0      68      68      68
              *

4143          KK   D56qW  DIVERT
4144          KM    Divert 33% of surface flow to south.
4145          DT   D56qS
4146          DI       0     100    1000   10000
4147          DQ       0      33     330    3300
              *

4148          KK   R56qW   ROUTE
4149          KM    Route surface flow west from Subbasin 56q to 60q.
4150          RS       5    FLOW      -1
4151          RC   0.050   0.016   0.050    2640  0.0015
4152          RX       0     2.1      84   205.8   214.2     336   417.9     420
4153          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                          PAGE116

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4154          KK     60q   BASIN
4155          KM    Subbasin at NEC of Van Buren and 7th St
4156          BA   0.353
4157          LG    0.24    0.25    5.00    0.33      23
4158          UC   0.950   0.561
```

```
4159          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4160          UA     100
              *

4161          KK    C60q COMBINE
4162          KM    Combine hydrographs R56qW and 60q.
4163          HC       2    1.10
              *

4164          KK    D60q  DIVERT
4165          KM    Divert 281 cfs into pipe (south).
4166          DT   D60qP
4167          DI       0     100     281   10000
4168          DQ       0     100     281     281
              *

4169          KK   D60qW  DIVERT
4170          KM    Divert 28% of surface flow to south.
4171          DT   D60qS
4172          DI       0     100    1000   10000
4173          DQ       0      28     280    2800
              *

4174          KK   R60qW   ROUTE
4175          KM    Route surface flow west from Subbasin 60q to 64q.
4176          RS       6    FLOW      -1
4177          RC   0.050   0.016   0.050    2640  0.0015
4178          RX       0    1.55      62   151.9   158.1     248  308.45     310
4179          RY       3       1     0.5       0       0     0.5       1       3
              *

4180          KK     64q   BASIN
4181          KM    Subbasin at NEC of Van Buren and Central
4182          BA   0.405
4183          LG    0.17    0.17    6.80    0.17      42
4184          UC   0.964   0.517
4185          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4186          UA     100
              *

4187          KK    C64q COMBINE
4188          KM    Combine flows of 64q, R60qW, and DN_64o.
4189          HC       3    1.51
              *
1                                        HEC-1 INPUT                                          PAGE117

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4190          KK    D64q  DIVERT
4191          KM    Divert 0.0 cfs into West Tunnel.
4192          KM    Assuming the storm drain is not connected to West Tunnel.
4193          DT  D64qPT
4194          DI       0     100    1000   10000
4195          DQ       0       0       0       0
              *

4196          KK   D64q1  DIVERT
4197          KM    Divert 68 cfs into storm drain to west).
4198          DT   D64qP
4199          DI       0      68    1000   10000
4200          DQ       0      68      68      68
              *

4201          KK   D64qW  DIVERT
4202          KM    Divert 33% of surface flow to south.
4203          DT   D64qS
4204          DI       0     100    1000   10000
4205          DQ       0      33     330    3300
              *

4206          KK   R64qW   ROUTE
4207          KM    Route surface flow west from Subbasin 64q to 68q.
4208          RS       4    FLOW      -1
4209          RC   0.050   0.016   0.050    2300  0.0009
4210          RX       0    1.35      54   132.3   137.7     216  268.65     270
4211          RY       3       1     0.5       0       0     0.5       1       3
              *

4212          KK  BD64qP RETRIEVE
4213          KM    Retrieve diverted pipe flow from D64qP.
4214          DR   D64qP
              *

4215          KK   P64qW   ROUTE
4216          KM    Route pipe flow from Central/Van Buren to subbasin 68q.
```

```
4217          RK    2650  0.0030   0.015            CIRC     4.0
              *

4218          KK   C64qW COMBINE
4219          KM    Combine hydrographs R64qW and P64qW.
4220          HC       2    1.51
              *

4221          KK     68q   BASIN
4222          KM    Subbasin at NEC of Van Buren and 7th Ave
4223          BA   0.295
4224          LG    0.18    0.23    6.20    0.22      36
4225          UC   0.895   0.510
4226          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4227          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE118

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4228          KK    C68q COMBINE
4229          KM    Combine hydrographs C64qW and 68q.
4230          HC       2    1.80
              *

4231          KK    D68q  DIVERT
4232          KM    Divert 68 cfs into pipe (west).
4233          DT   D68qP
4234          DI       0      68    1000   10000
4235          DQ       0      68      68      68
              *

4236          KK   D68qW  DIVERT
4237          KM    Divert 33% of surface flow to south.
4238          DT   D68qS
4239          DI       0     100    1000   10000
4240          DQ       0      33     330    3300
              *

4241          KK   R68qW   ROUTE
4242          KM    Route surface flow west from Subbasin 68q to 72q.
4243          RS       3    FLOW      -1
4244          RC   0.050   0.016   0.050    2640  0.0015
4245          RX       0    1.05      42   102.9   107.1     168  208.95     210
4246          RY       3       1     0.5       0       0     0.5       1       3
              *

4247          KK  BD68qP RETRIEVE
4248          KM    Retrieve diverted pipe flow from D68qP.
4249          DR   D68qP
              *

4250          KK   P68qW   ROUTE
4251          KM    Route pipe flow from 7th ave/Van Buren to subbasin 72q.
4252          RK    3500  0.0030   0.015            CIRC     4.0
              *

4253          KK   C68qW COMBINE
4254          KM    Combine hydrographs R68qW and P68qW.
4255          HC       2    1.80
              *

4256          KK     72q   BASIN
4257          KM    Subbasin at NEC of Van Buren and 15th Ave
4258          BA   0.329
4259          LG    0.19    0.15    8.40    0.09      29
4260          UC   0.966   0.567
4261          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4262          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE119

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4263          KK   B72oP RETRIEVE
4264          KM    Retrieve diverted pipe flow from D72oP.
4265          DR   D72oP
              *

4266          KK   P72oS   ROUTE
4267          KM    Route pipe flow from 15th ave/THomas to subbasin 72q.
4268          RK    3700  0.0030   0.015            CIRC    8.00
              *
```

```
4269          KK    C72q COMBINE
4270          KM    Combine hydrographs C68qW, 72q, and P72oS.
4271          HC       3    3.13
              *

4272          KK    D72q  DIVERT
4273          KM    Divert 662 cfs into two pipes (229 cfs for east, 433 for west).
4274          DT   D72qP
4275          DI       0     100     662   10000
4276          DQ       0     100     662     662
              *

4277          KK   D72qW  DIVERT
4278          KM    Divert 33% of surface flow to south.
4279          DT   D72qS
4280          DI       0     100    1000   10000
4281          DQ       0      33     330    3300
              *

4282          KK   R72qW   ROUTE
4283          KM    Route surface flow west from Subbasin 72q to 76q.
4284          RS       4    FLOW      -1
4285          RC   0.050   0.016   0.050    3000  0.0015
4286          RX       0    1.85      74   181.3   188.7     296  368.15     370
4287          RY       3       1     0.5       0       0     0.5       1       3
              *

4288          KK     80o   BASIN
4289          KM    Subbasin at NEC of Mcdowell and 19th Ave
4290          BA   0.542
4291          LG    0.46    0.15    9.70    0.06      33
4292          UC   0.742   0.401
4293          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4294          UA     100
              *

4295          KK  BD84mP RETRIEVE
4296          KM    Retrieve diverted pipe flow from D84mP.
4297          DR   D84mP
              *
1                                        HEC-1 INPUT                                          PAGE120

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4298          KK   P84mS   ROUTE
4299          KM    Route pipe flow from I-17/THomas to subbasin 80o.
4300          RK    1800  0.0030   0.015            CIRC    6.50
              *

4301          KK  BD84mS RETRIEVE
4302          KM    Retrieve diverted surface flow from D84mS.
4303          DR   D84mS
              *

4304          KK   R84mS   ROUTE
4305          KM    Route surface flow south from Subbasin 84m to 80o.
4306          RS       3    FLOW      -1
4307          RC   0.050   0.016   0.050    6000   0.004
4308          RX       0    0.75      30    73.5    76.5     120  149.25     150
4309          RY       3       1     0.5       0       0     0.5       1       3
              *

4310          KK   C84mS COMBINE
4311          KM    Combine hydrographs R84mS and P84mS.
4312          HC       2    5.49
              *

4313          KK  BD80mS RETRIEVE
4314          KM    Retrieve diverted surface flow from D80mS.
4315          DR   D80mS
              *

4316          KK   R80mS   ROUTE
4317          KM    Route surface flow south from Subbasin 80m to 80o.
4318          RS       2    FLOW      -1
4319          RC   0.050   0.016   0.050    3500  0.0065
4320          RX       0     0.5      20      49      51      80    99.5     100
4321          RY       3       1     0.5       0       0     0.5       1       3
              *

4322          KK    C80o COMBINE
4323          KM    Combine hydrographs R80mS, C84mS, and 80o.
4324          HC       3    6.58
              *
```

```
4325          KK    E80o  DIVERT
4326          KM    By-pass 249 cfs and the remaining flow diverted into offline detention.
4327          DT   DB80o
4328          DI       0     100     249    1000   10000
4329          DQ       0       0       0     751    9751
              *

4330          KK  BDB80oRETRIEVE
4331          KM    Retrieve diverted flow from DB80 for offline detention.
4332          DR   DB80o
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4333          KK    S80o STORAGE
4334          KM    Offline Regional Detention Basin, 18 ac-ft.
4335          RS       1    STOR       0
4336          SV       0     2.7     6.2    10.1    14.3    17.7    24.3
4337          SE       0       2       4       6       8     9.5      12
4338          SQ       0      15      26      34      55     120    1400
              *

4339          KK   CC80o COMBINE
4340          KM    Combine hydrographs S80o and E80o.
4341          HC       2    6.58
              *

4342          KK    D80o  DIVERT
4343          KM    Divert 249 cfs into pipe (south).
4344          DT   D80oP
4345          DI       0     100     249   10000
4346          DQ       0     100     249     249
              *

4347          KK   R80oS   ROUTE
4348          KM    Route surface flow south from Subbasin 80o to 80p.
4349          RS       3    FLOW      -1
4350          RC   0.050   0.016   0.050    4000  0.0037
4351          RX       0     1.5      60     147     153     240   298.5     300
4352          RY       3       1     0.5       0       0     0.5       1       3
              *

4353          KK     76o   BASIN
4354          KM    Subbasin at NEC of I-10 and 19th Ave
4355          BA   0.673
4356          LG    0.17    0.15    8.80    0.08      26
4357          UC   1.052   0.714
4358          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4359          UA     100
              *

4360          KK   BD76m RETRIEVE
4361          KM    Retrieve diverted surface flow from D76m.
4362          DR    D76m
              *

4363          KK   R76mS   ROUTE
4364          KM    Route surface flow south from Subbasin 76m to 76o.
4365          RS       3    FLOW      -1
4366          RC   0.050   0.016   0.050    6900  0.0023
4367          RX       0    0.75      30    73.5    76.5     120  149.25     150
4368          RY       3       1     0.5       0       0     0.5       1       3
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4369          KK  B76mP2 RETRIEVE
4370          KM    Retrieve diverted pipe flow from D76mP2.
4371          DR  D76mP2
              *

4372          KK   P76mS   ROUTE
4373          KM    Route pipe flow from 19th ave/THomas to subbasin 76o.
4374          RK    7000  0.0030   0.015            CIRC    5.50
              *

4375          KK  C76mS COMBINE
4376          KM    Combine hydrographs R76mS and P76mS.
4377          HC       2    6.71
              *

4378          KK  BD72oW RETRIEVE
```

```
4379          KM    Retrieve diverted surface flow from D72oW.
4380          DR   D72oW
              *

4381          KK   R72oW   ROUTE
4382          KM    Route surface flow west from Subbasin 72o to 76o.
4383          RS       2    FLOW      -1
4384          RC   0.050   0.016   0.050    2800  0.0007
4385          RX       0     0.8      32    78.4    81.6     128   159.2     160
4386          RY       3       1     0.5       0       0     0.5       1       3
              *

4387          KK    C76o COMBINE
4388          KM    COmbine flows of 76o, C76mS, R80oS, and R72oW
4389          HC       4    7.92
              *

4390          KK   D76oP  DIVERT
4391          KM    Divert 229 cfs into pipe (south).
4392          DT    D76o
4393          DI       0     100     229   10000
4394          DQ       0       0       0    9771
              *

4395          KK   P76oS   ROUTE
4396          KM    Route pipe flow from 19th ave/THomas to subbasin 76q.
4397          RK    4000  0.0031   0.015            CIRC    6.25
              *

4398          KK   BD76o RETRIEVE
4399          KM    Retrieve diverted surface flow from D76o.
4400          DR    D76o
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4401          KK   D76oS  DIVERT
4402          KM    Divert 10% of surface flow to west.
4403          DT   D76oW
4404          DI       0     100    1000   10000
4405          DQ       0      10     100    1000
              *

4406          KK   R76oS   ROUTE
4407          KM    Route surface flow south from Subbasin 76o to 76q.
4408          RS       2    FLOW      -1
4409          RC   0.050   0.016   0.050    4000  0.0022
4410          RX       0    1.05      42   102.9   107.1     168  208.95     210
4411          RY       3       1     0.5       0       0     0.5       1       3
              *

4412          KK   C76oS COMBINE
4413          KM    Combine hydrographs R76oS and P76oS.
4414          HC       2    7.92
              *

4415          KK     76q   BASIN
4416          KM    Subbasin at NEC of Van Buren and UPRR
4417          BA   0.396
4418          LG    0.19    0.13   10.10    0.05      39
4419          UC   0.818   0.445
4420          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4421          UA     100
              *

4422          KK    C76q COMBINE
4423          KM    Combine hydrographs 76q, R72qW, and C76oS.
4424          HC       3   11.45
              *

4425          KK    D76q  DIVERT
4426          KM    Divert 229 cfs into pipe (south).
4427          DT   D76qP
4428          DI       0     100     229   10000
4429          DQ       0     100     229     229
              *

4430          KK   D76qW  DIVERT
4431          KM    Divert 52% of surface flow to south.
4432          DT   D76qS
4433          DI       0     100    1000   10000
4434          DQ       0      52     520    5200
              *
```

```
4435          KK   R76qW   ROUTE
4436          KM    Route surface flow west from Subbasin 76q to 80q.
4437          RS       2    FLOW      -1
4438          RC   0.050   0.016   0.050    2300  0.0009
4439          RX       0     0.8      32    78.4    81.6     128   159.2     160
4440          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                          HEC-1 INPUT                                                    PAGE124

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4441          KK     80p   BASIN
4442          KM    Subbasin at NEC of I-10 and I-17
4443          BA   0.397
4444          LG    0.14    0.15    8.00    0.11      55
4445          UC   0.712   0.443
4446          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4447          UA     100
              *

4448          KK  BD76oW RETRIEVE
4449          KM    Retrieve diverted surface flow from D76oW.
4450          DR   D76oW
              *

4451          KK   R76oW   ROUTE
4452          KM    Route surface flow west from Subbasin 76o to 80p.
4453          RS       2    FLOW      -1
4454          RC   0.050   0.016   0.050    2200  0.0036
4455          RX       0     1.8      72   176.4   183.6     288   358.2     360
4456          RY       3       1     0.5       0       0     0.5       1       3
              *

4457          KK    C80p COMBINE
4458          KM    Combine flows of 80P and R76oW
4459          HC       2    8.32
              *

4460          KK    S80p STORAGE
4461          KM    Online Regional Detention Basin, 6 ac-ft.
4462          RS       1    STOR       0
4463          SV       0     1.9     3.8     5.7     7.8      10
4464          SE       0       2       4       6       8      10
4465          SQ       0       2       3       4     400    1100
              *

4466          KK  BD80oP RETRIEVE
4467          KM    Retrieve diverted pipe flow from D80oP.
4468          DR   D80oP
              *

4469          KK   P80oS   ROUTE
4470          KM    Route pipe flow from subbasin 80o to subbasin 80p along I-17.
4471          RK    5900  0.0030   0.015            CIRC    6.50
              *

4472          KK   CC80p COMBINE
4473          KM    Combine hydrographs P80oS and S80p.
4474          HC       2    8.32
              *
1                                          HEC-1 INPUT                                                    PAGE125

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4475          KK    D80p  DIVERT
4476          KM    Divert 249 cfs into pipe (south).
4477          DT   D80pP
4478          DI       0     100     249   10000
4479          DQ       0     100     249     249
              *

4480          KK   R80pS   ROUTE
4481          KM    Route surface flow south from Subbasin 80p to 80q.
4482          RS       8    FLOW      -1
4483          RC   0.050   0.016   0.050    6200  0.0019
4484          RX       0     1.3      52   127.4   132.6     208   258.7     260
4485          RY       3       1     0.5       0       0     0.5       1       3
              *

4486          KK  BD80pP RETRIEVE
4487          KM    Retrieve diverted pipe flow from D80pP.
4488          DR   D80pP
              *
```

```
4489          KK   P80pS   ROUTE
4490          KM    Route pipe flow from I-17/I-10 to subbasin 80q.
4491          RK    6200  0.0030   0.015            CIRC    6.50
              *

4492          KK   C80pS COMBINE
4493          KM    Combine hydrographs R36oS and P36oS.
4494          HC       2    8.32
              *

4495          KK     80q   BASIN
4496          KM    Subbasin at NEC of UPRR and I-17
4497          BA   0.497
4498          LG    0.20    0.15    9.70    0.06      31
4499          UC   1.106   0.797
4500          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4501          UA     100
              *

4502          KK    C80q COMBINE
4503          KM    Combine flows of 80q, C80pS, and R76qW
4504          HC       3   12.34
              *

4505          KK     28s   BASIN
4506          KM   Subbasin at NEC of UPRR and 40th St
4507          BA   0.164
4508          LG    0.15    0.23    5.80    0.25      42
4509          UC   0.605   0.341
4510          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4511          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4512          KK  BD28qP RETRIEVE
4513          KM    Retrieve diverted pipe flow from D28qP.
4514          DR   D28qP
              *

4515          KK  D28qP1  DIVERT
4516          KM    Divert 32 cfs into pipe (east).
4517          DT  D28qP2
4518          DI       0     340    1000
4519          DQ       0      32      32
              *

4520          KK   P28qS   ROUTE
4521          KM    Route pipe flow from 40th st/Grand Canal to subbasin 28s.
4522          RK    2500  0.0031   0.015            CIRC    7.00
              *

4523          KK  BD28qS RETRIEVE
4524          KM    Retrieve diverted surface flow from D28qS.
4525          DR   D28qS
              *

4526          KK   R28qS   ROUTE
4527          KM    Route surface flow south from Subbasin 28q to 28s.
4528          RS       1    FLOW      -1
4529          RC   0.050   0.016   0.050    1240  0.0065
4530          RX       0     0.8      32    78.4    81.6     128   159.2     160
4531          RY       3       1     0.5       0       0     0.5       1       3
              *

4532          KK   C28qS COMBINE
4533          KM    Combine hydrographs R28qS and P28qS.
4534          HC       2    0.82
              *

4535          KK    C28s COMBINE
4536          KM    Combine hydrographs C28qS and 28s.
4537          HC       2    0.98
              *

4538          KK    D28s  DIVERT
4539          KM    Divert 492 cfs into pipe (south).
4540          DT   D28sP
4541          DI       0     100     492   10000
4542          DQ       0     100     492     492
              *

4543          KK   D28sW  DIVERT
4544          KM    Divert 43% of surface flow to south.
```

```
4545          DT   D28sS
4546          DI       0     100    1000   10000
4547          DQ       0      43     434    4340
              *
                                   HEC-1 INPUT                                                    PAGE127

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4548          KK   R28sW   ROUTE
4549          KM    Route surface flow west from Subbasin 28s to 32s.
4550          RS       5    FLOW      -1
4551          RC   0.050   0.016   0.050    2640  0.0023
4552          RX       0     0.8      32    78.4    81.6     128   159.2     160
4553          RY       3       1     0.5       0       0     0.5       1       3
              *

4554          KK     32s   BASIN
4555          KM    Subbasin at NEC of UPRR and 36th St
4556          BA   0.336
4557          LG    0.52    0.15    8.00    0.11      48
4558          UC   0.872   0.675
4559          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4560          UA     100
              *

4561          KK    C32s COMBINE
4562          KM    Combine hydrographs 32s and R28sW.
4563          HC       2    1.32
              *

4564          KK   S32s STORAGE
4565          KM    Regional online retention basin, 16 ac-ft.
4566          RS       1    STOR       0
4567          SV       0     0.9     2.2     3.9     6.1     8.8      16    21.2
4568          SE       0       2       4       6       8      10      14      16
4569          SS      14     100     2.7     1.5
              *

4570          KK    D32s  DIVERT
4571          KM    Divert 48 cfs into pipe (west).
4572          DT   D32sP
4573          DI       0      48    1000   10000
4574          DQ       0      48      48      48
              *

4575          KK   R32sW   ROUTE
4576          KM    Route surface flow west from Subbasin 32s to 36s.
4577          RS       4    FLOW      -1
4578          RC   0.050   0.016   0.050    2640  0.0015
4579          RX       0     1.3      52   127.4   132.6     208   258.7     260
4580          RY       3       1     0.5       0       0     0.5       1       3
              *

4581          KK  BD32sP RETRIEVE
4582          KM    Retrieve diverted pipe flow from D32sP.
4583          DR   D32sP
              *
1                                  HEC-1 INPUT                                                    PAGE128

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4584          KK   P32sW   ROUTE
4585          KM    Route pipe flow from subbasin 32s to subbasin 36s.
4586          RK    2650  0.0030   0.015            CIRC     3.5
              *

4587          KK   C32sW COMBINE
4588          KM    Combine hydrographs R32sW and P32sW.
4589          HC       2    1.32
              *

4590          KK     36s   BASIN
4591          KM    Subbasin at NEC of UPRR and 32nd St
4592          BA   0.241
4593          LG    0.19    0.13   10.10    0.05      34
4594          UC   0.789   0.508
4595          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4596          UA     100
              *

4597          KK  BD36qP RETRIEVE
4598          KM    Retrieve diverted pipe flow from D36qP.
4599          DR   D36qP
              *
```

```
4600          KK   P36qS   ROUTE
4601          KM    Route pipe flow from 32nd st/Van Buren to subbasin 36s.
4602          RK    2500  0.0065   0.015            CIRC    6.00
              *

4603          KK  BD36qS RETRIEVE
4604          KM    Retrieve diverted surface flow from D36qS.
4605          DR   D36qS
              *

4606          KK   R36qS   ROUTE
4607          KM    Route surface flow south from Subbasin 36q to 36s.
4608          RS       4    FLOW      -1
4609          RC   0.050   0.016   0.050    2530  0.0032
4610          RX       0    0.75      30    73.5    76.5     120  149.25     150
4611          RY       3       1     0.5       0       0     0.5       1       3
              *

4612          KK   C36qS COMBINE
4613          KM    Combine hydrographs R36qS and P36qS.
4614          HC       2    1.56
              *

4615          KK    C36s COMBINE
4616          KM    Combine hydrographs C36qS, 36s, and C32sW.
4617          HC       3    2.30
              *
1                                        HEC-1 INPUT                                                    PAGE129

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4618          KK    D36s  DIVERT
4619          KM    Divert 303 cfs into pipe (south).
4620          DT   D36sP
4621          DI       0     100     303   10000
4622          DQ       0     100     303     303
              *

4623          KK   R36sW   ROUTE
4624          KM    Route surface flow west from Subbasin 36s to 40s.
4625          RS       2    FLOW      -1
4626          RC   0.050   0.016   0.050    2640  0.0015
4627          RX       0     0.8      32    78.4    81.6     128   159.2     160
4628          RY       3       1     0.5       0       0     0.5       1       3
              *

4629          KK     40s   BASIN
4630          KM    Subbasin at NEC of UPRR and 28th St
4631          BA   0.244
4632          LG    0.15    0.13   10.10    0.05      48
4633          UC   0.808   0.518
4634          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4635          UA     100
              *

4636          KK  BD40qS RETRIEVE
4637          KM    Retrieve diverted surface flow from D40qS.
4638          DR   D40qS
              *

4639          KK   R40qS   ROUTE
4640          KM    Route surface flow south from Subbasin 40q to 40s.
4641          RS       3    FLOW      -1
4642          RC   0.050   0.016   0.050    2540  0.0024
4643          RX       0    1.05      42   102.9   107.1     168  208.95     210
4644          RY       3       1     0.5       0       0     0.5       1       3
              *

4645          KK    C40s COMBINE
4646          KM    Combine hydrographs R40qS, 40s, and R36sW.
4647          HC       3    2.89
              *

4648          KK    D40s  DIVERT
4649          KM    Divert 68 cfs into pipe (west).
4650          DT   D40sP
4651          DI       0      68    1000   10000
4652          DQ       0      68      68      68
              *
                                         HEC-1 INPUT                                                    PAGE130

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
4653          KK   R40sW   ROUTE
4654          KM    Route surface flow west from Subbasin 40s to 44s.
4655          RS       2    FLOW      -1
4656          RC   0.050   0.016   0.050    2640  0.0015
4657          RX       0     1.1      44   107.8   112.2     176   218.9     220
4658          RY       3       1     0.5       0       0     0.5       1       3
              *

4659          KK  BD40sP RETRIEVE
4660          KM    Retrieve diverted pipe flow from D40sP.
4661          DR   D40sP
              *

4662          KK   P40sW   ROUTE
4663          KM    Route pipe flow from subbasin 40s to subbasin 44s.
4664          RK    2800  0.0030   0.015            CIRC     4.0
              *

4665          KK   C40sW COMBINE
4666          KM    Combine hydrographs R40sW and P40sW.
4667          HC       2    2.89
              *

4668          KK     44s   BASIN
4669          KM    Subbasin at NEC of UPRR and 24th St
4670          BA   0.240
4671          LG    0.16    0.13   10.10    0.05      44
4672          UC   0.892   0.584
4673          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4674          UA     100
              *

4675          KK  BD44qP RETRIEVE
4676          KM    Retrieve diverted pipe flow from D44qP.
4677          DR   D44qP
              *

4678          KK   P44qS   ROUTE
4679          KM    Route pipe flow from 24th st/Van Buren to subbasin 44s.
4680          RK    2500  0.0030   0.015            CIRC    6.00
              *

4681          KK  BD44qS RETRIEVE
4682          KM    Retrieve diverted surface flow from D44qS.
4683          DR   D44qS
              *

4684          KK   R44qS   ROUTE
4685          KM    Route surface flow south from Subbasin 44q to 44s.
4686          RS       3    FLOW      -1
4687          RC   0.050   0.016   0.050    2550  0.0016
4688          RX       0    0.75      30    73.5    76.5     120  149.25     150
4689          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4690          KK   C44qS COMBINE
4691          KM    Combine hydrographs R44qS and P44qS.
4692          HC       2    2.57
              *

4693          KK    C44s COMBINE
4694          KM    Combine hydrographs C44qS, 44s, and C40sW.
4695          HC       3    3.79
              *

4696          KK    D44s  DIVERT
4697          KM    Divert 201 cfs into pipe (south).
4698          DT   D44sP
4699          DI       0     100     201   10000
4700          DQ       0     100     201     201
              *

4701          KK   R44sW   ROUTE
4702          KM    Route surface flow west from Subbasin 44s to 48s.
4703          RS       3    FLOW      -1
4704          RC   0.050   0.016   0.050    2400  0.0017
4705          RX       0     1.1      44   107.8   112.2     176   218.9     220
4706          RY       3       1     0.5       0       0     0.5       1       3
              *

4707          KK     48s   BASIN
4708          KM    Subbasin at NEC of UPRR and I-10
```

```
4709          BA   0.212
4710          LG    0.15    0.15    9.70    0.06      49
4711          UC   0.777   0.503
4712          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4713          UA     100
              *

4714          KK  BD48qS RETRIEVE
4715          KM    Retrieve diverted flow from D48qS.
4716          DR   D48qS
              *

4717          KK   R48qS   ROUTE
4718          KM    Route surface flow south from Subbasin 48q to 48s.
4719          RS       2    FLOW      -1
4720          RC   0.050   0.016   0.050    2550  0.0016
4721          RX       0    0.75      30    73.5    76.5     120  149.25     150
4722          RY       3       1     0.5       0       0     0.5       1       3
              *

4723          KK    C48s COMBINE
4724          KM    Combine hydrographs R48qS, 48s, and R44sW.
4725          HC       3    4.31
              *
1                                        HEC-1 INPUT                                          PAGE132

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4726          KK   DB48s  DIVERT
4727          KM    Divert flow into East Tunnel.
4728          KM    102" SD at Admas St and 96" SD at Madison St. Q =600+468=1068 cfs
4729          DT  D48sPT
4730          DI       0     100    1068   10000
4731          DQ       0     100    1068    1068
              *

4732          KK    S48s STORAGE
4733          KM    Regional online detention basin, 0.6 ac-ft.
4734          RS       1    STOR       0
4735          SV       0     0.6       2
4736          SE       0       1       3
4737          SQ       0      24     290
              *

4738          KK   R48sW   ROUTE
4739          KM    Route surface flow west from Subbasin 48s to 52s.
4740          RS       6    FLOW      -1
4741          RC   0.050   0.016   0.050    3000  0.0014
4742          RX       0     0.9      36    88.2    91.8     144   179.1     180
4743          RY       3       1     0.5       0       0     0.5       1       3
              *

4744          KK     52s   BASIN
4745          KM    Subbasin at NEC of UPRR and 16th St
4746          BA   0.265
4747          LG    0.17    0.13   10.10    0.05      44
4748          UC   0.840   0.544
4749          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4750          UA     100
              *

4751          KK  BD52qP RETRIEVE
4752          KM    Retrieve diverted pipe flow from D52qP.
4753          DR   D52qP
              *

4754          KK   P52qS   ROUTE
4755          KM    Route pipe flow from subbasin 52q to subbasin 52s.
4756          RK    2500  0.0139   0.015            CIRC    4.42
              *

4757          KK  BD52qS RETRIEVE
4758          KM    Retrieve diverted surface flow from D52qS.
4759          DR   D52qS
              *

4760          KK   R52qS   ROUTE
4761          KM    Route surface flow south from Subbasin 52q to 52s.
4762          RS       5    FLOW      -1
4763          RC   0.050   0.016   0.050    2500  0.0024
4764          RX       0    1.85      74   181.3   188.7     296  368.15     370
4765          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                          PAGE133
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4766          KK   C52qS COMBINE
4767          KM    Combine hydrographs R52qS and P52qS.
4768          HC       2    0.39
              *

4769          KK    C52s COMBINE
4770          KM    Combine hydrographs C52s, C52qS, and R48sW.
4771          HC       3    0.66
              *

4772          KK    D52s  DIVERT
4773          KM    Divert 191 cfs into pipe (south).
4774          DT   D52sP
4775          DI       0     100     191   10000
4776          DQ       0     100     191     191
              *

4777          KK   R52sW   ROUTE
4778          KM    Route surface flow west from Subbasin 52s to 56s.
4779          RS       5    FLOW      -1
4780          RC   0.050   0.016   0.050    2640  0.0015
4781          RX       0     0.8      32    78.4    81.6     128   159.2     160
4782          RY       3       1     0.5       0       0     0.5       1       3
              *

4783          KK     56s   BASIN
4784          KM    Subbasin at NEC of UPRR and 12th St
4785          BA   0.255
4786          LG    0.18    0.10   11.20    0.03      39
4787          UC   0.832   0.516
4788          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4789          UA     100
              *

4790          KK  BD56qP RETRIEVE
4791          KM    Retrieve diverted pipe flow from D56qP.
4792          DR   D56qP
              *

4793          KK   P56qS   ROUTE
4794          KM    Route pipe flow from 12th st/Van Buren to subbasin 56s.
4795          RK    2600  0.0030   0.015            CIRC    4.00
              *

4796          KK  BD56qS RETRIEVE
4797          KM    Retrieve diverted surface flow from D56qS.
4798          DR   D56qS
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4799          KK   R56qS   ROUTE
4800          KM    Route surface flow south from Subbasin 56q to 56s.
4801          RS       5    FLOW      -1
4802          RC   0.050   0.016   0.050    2500  0.0024
4803          RX       0    1.25      50   122.5   127.5     200  248.75     250
4804          RY       3       1     0.5       0       0     0.5       1       3
              *

4805          KK   C56qS COMBINE
4806          KM    Combine hydrographs R56qS and P56qS.
4807          HC       2    0.75
              *

4808          KK    C56s COMBINE
4809          KM    Combine hydrographs C56qS, 56s, and R52sW.
4810          HC       3    1.27
              *

4811          KK    D56s  DIVERT
4812          KM    Divert 201 cfs into pipe (south).
4813          DT   D56sP
4814          DI       0     100     201   10000
4815          DQ       0     100     201     201
              *

4816          KK   D56sW  DIVERT
4817          KM    Divert 15% of surface flow to south.
4818          DT   D56sS
4819          DI       0     100    1000   10000
4820          DQ       0      15     150    1500
```

```
                 *

4821             KK   R56sW   ROUTE
4822             KM    Route surface flow west from Subbasin 56s to 60s.
4823             RS       3    FLOW      -1
4824             RC   0.050   0.016   0.050    2640  0.0015
4825             RX       0     0.8      32    78.4    81.6     128   159.2     160
4826             RY       3       1     0.5       0       0     0.5       1       3
                 *

4827             KK     60s   BASIN
4828             KM    Subbasin at NEC of UPRR and 7th St
4829             BA   0.253
4830             LG    0.14    0.13   10.10    0.05      55
4831             UC   0.690   0.435
4832             UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4833             UA     100
                 *
1                                                HEC-1 INPUT                                                PAGE135

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4834             KK  BD60qP RETRIEVE
4835             KM    Retrieve diverted pipe flow from D60qP.
4836             DR   D60qP
                 *

4837             KK   P60qS   ROUTE
4838             KM    Route pipe flow from subbasin 60q to subbasin 60s.
4839             RK    2600  0.0031   0.015            CIRC    6.75
                 *

4840             KK  BD60qS RETRIEVE
4841             KM    Retrieve diverted surface flow from D60qS.
4842             DR   D60qS
                 *

4843             KK   R60qS   ROUTE
4844             KM    Route surface flow south from Subbasin 60q to 60s.
4845             RS       6    FLOW      -1
4846             RC   0.050   0.016   0.050    2600  0.0037
4847             RX       0    1.25      50   122.5   127.5     200  248.75     250
4848             RY       3       1     0.5       0       0     0.5       1       3
                 *

4849             KK   C60qS COMBINE
4850             KM    Combine hydrographs R60qS and P60qS.
4851             HC       2    1.10
                 *

4852             KK    C60s COMBINE
4853             KM    Combine flows of 60s, c60qS, and R56sW
4854             HC       3    1.87
                 *

4855             KK    D60s  DIVERT
4856             KM    Divert 217 cfs into pipe (west).
4857             DT   D60sP
4858             DI       0     100     217   10000
4859             DQ       0     100     217     217
                 *

4860             KK   D60sW  DIVERT
4861             KM    Divert 28% of surface flow to south.
4862             DT   D60sS
4863             DI       0     100    1000   10000
4864             DQ       0      28     280    2800
                 *

4865             KK   R60sW   ROUTE
4866             KM    Route surface flow west from Subbasin 60s to 64s.
4867             RS       3    FLOW      -1
4868             RC   0.050   0.016   0.050    2640  0.0008
4869             RX       0     0.8      32    78.4    81.6     128   159.2     160
4870             RY       3       1     0.5       0       0     0.5       1       3
                 *
1                                                HEC-1 INPUT                                                PAGE136

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4871             KK  BD60sP RETRIEVE
4872             KM    Retrieve diverted pipe flow from D60sP.
4873             DR   D60sP
                 *
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4874          KK   P60sW   ROUTE
4875          KM    Route pipe flow from subbasin 60s to subbasin 64s.
4876          RK    1150  0.0030   0.015            CIRC     6.2
              *

4877          KK   C60sW COMBINE
4878          KM    Combine hydrographs R60sW and P60sW.
4879          HC       2    1.87
              *

4880          KK     64s   BASIN
4881          KM    Subbasin at NEC of UPRR and Central
4882          BA   0.258
4883          LG    0.11    0.15    9.70    0.07      65
4884          UC   0.718   0.440
4885          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4886          UA     100
              *

4887          KK  BD64qS RETRIEVE
4888          KM    Retrieve diverted surface flow from D64qS.
4889          DR   D64qS
              *

4890          KK   R64qS   ROUTE
4891          KM    Route surface flow south from Subbasin 64q to 64s.
4892          RS       3    FLOW      -1
4893          RC   0.050   0.016   0.050    2480  0.0032
4894          RX       0    1.55      62   151.9   158.1     248  308.45     310
4895          RY       3       1     0.5       0       0     0.5       1       3
              *

4896          KK    C64s COMBINE
4897          KM    Combine flows of 64s, R64qS, and C60sW
4898          HC       3    2.54
              *

4899          KK    D64s  DIVERT
4900          KM    Divert 0.0 cfs into West Tunnel.
4901          KM    Assuming no connection to ADOT West Tunnel.
4902          DT  D64sPT
4903          DI       0     100    1000   10000
4904          DQ       0       0       0       0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4905          KK   D64s1  DIVERT
4906          KM    Divert 327 cfs into storm drain.
4907          KM    600 cfs for two pipes combined but limited by D/S pipe capacity.
4908          DT   D64sP
4909          DI       0     100     327    1000   10000
4910          DQ       0     100     327     327     327
              *

4911          KK   D64sW  DIVERT
4912          KM    Divert 42% of surface flow to south.
4913          DT   D64sS
4914          DI       0     100    1000   10000
4915          DQ       0      42     420    4200
              *

4916          KK   R64sW   ROUTE
4917          KM    Route surface flow west from Subbasin 64s to 68s.
4918          RS       3    FLOW      -1
4919          RC   0.050   0.016   0.050    2280  0.0026
4920          RX       0     1.3      52   127.4   132.6     208   258.7     260
4921          RY       3       1     0.5       0       0     0.5       1       3
              *

4922          KK     68s   BASIN
4923          KM    Subbasin at NEC of UPRR and 7th Ave
4924          BA   0.236
4925          LG    0.12    0.25    5.20    0.35      60
4926          UC   0.745   0.467
4927          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4928          UA     100
              *

4929          KK  BD68qS RETRIEVE
4930          KM    Retrieve diverted surface flow from D68qS.
4931          DR   D68qS
              *
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4932          KK   R68qS   ROUTE
4933          KM    Route surface flow south from Subbasin 68q to 68s.
4934          RS       3    FLOW      -1
4935          RC   0.050   0.016   0.050    2800  0.0024
4936          RX       0    1.25      50   122.5   127.5     200  248.75     250
4937          RY       3       1     0.5       0       0     0.5       1       3
              *

4938          KK    C68s COMBINE
4939          KM    Combine hydrographs 68s,R68qS, and R64sW
4940          HC       3    3.07
              *
1                                        HEC-1 INPUT                                                    PAGE138

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4941          KK    D68s  DIVERT
4942          KM    Divert 124 cfs into pipe (south).
4943          DT   D68sP
4944          DI       0     100     124   10000
4945          DQ       0     100     124     124
              *

4946          KK   D68sW  DIVERT
4947          KM    Divert 28% of surface flow to south.
4948          DT   D68sS
4949          DI       0     100    1000   10000
4950          DQ       0      28     280    2800
              *

4951          KK   R68sW   ROUTE
4952          KM    Route surface flow west from Subbasin 68s to 72s.
4953          RS       3    FLOW      -1
4954          RC   0.050   0.016   0.050    2640  0.0015
4955          RX       0    1.55      62   151.9   158.1     248  308.45     310
4956          RY       3       1     0.5       0       0     0.5       1       3
              *

4957          KK     72s   BASIN
4958          KM    Subbasin at NEC of UPRR and 15th Ave
4959          BA   0.283
4960          LG    0.16    0.15    9.70    0.06      35
4961          UC   0.784   0.476
4962          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
4963          UA     100
              *

4964          KK  BD72qP RETRIEVE
4965          KM    Retrieve diverted pipe flow from D72qP.
4966          KM    Total pipe flow = 662 cfs
4967          DR   D72qP
              *

4968          KK  D72qP1  DIVERT
4969          KM    Divert flow into pipe (south).
4970          DT  D72qP2
4971          DI       0     662     700
4972          DQ       0     229     242
              *

4973          KK  P72qS1  ROUTE
4974          KM    Route pipe flow from 15th ave/Van Buren to subbasin 72s.
4975          RK    3000  0.0030   0.015            CIRC    8.00
              *
1                                        HEC-1 INPUT                                                    PAGE139

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4976          KK  B72qP2 RETRIEVE
4977          KM    Retrieve diverted pipe flow from D72qP2.
4978          DR  D72qP2
              *

4979          KK  P72qS2  ROUTE
4980          KM    Route pipe flow from subbasin 72q to subbasin 72s.
4981          RK    3000  0.0031   0.015            CIRC     6.3
              *

4982          KK  BD72qS RETRIEVE
4983          KM    Retrieve diverted surface flow from D72qS.
4984          DR   D72qS
              *
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4985          KK   R72qS   ROUTE
4986          KM    Route surface flow south from Subbasin 72q to 72s.
4987          RS       4    FLOW      -1
4988          RC   0.050   0.016   0.050    3000  0.0024
4989          RX       0    1.25      50   122.5   127.5     200  248.75     250
4990          RY       3       1     0.5       0       0     0.5       1       3
              *

4991          KK   C72qS COMBINE
4992          KM    Combine hydrographs R72qS, P72qS2, and P72qS1.
4993          HC       3    3.13
              *

4994          KK    C72s COMBINE
4995          KM    COmbine flows of C72qS, 72s, and R68sW
4996          HC       3    4.68
              *

4997          KK    D72s  DIVERT
4998          KM    Divert 662 cfs into pipe (433 cfs + 229 cfs) (south).
4999          DT   D72sP
5000          DI       0     100     662   10000
5001          DQ       0     100     662     662
              *

5002          KK   D72sW  DIVERT
5003          KM    Divert 40% of surface flow to south.
5004          DT   D72sS
5005          DI       0     100    1000   10000
5006          DQ       0      40     400    4000
              *

5007          KK   R72sW   ROUTE
5008          KM    Route surface flow west from Subbasin 72s to 76s.
5009          RS       4    FLOW      -1
5010          RC   0.050   0.016   0.050    2640  0.0008
5011          RX       0     1.3      52   127.4   132.6     208   258.7     260
5012          RY       3       1     0.5       0       0     0.5       1       3
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5013          KK     76s   BASIN
5014          KM    Subbasin at NEC of UPRR and 19th Ave
5015          BA   0.279
5016          LG    0.11    0.15    9.70    0.07      54
5017          UC   0.802   0.472
5018          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5019          UA     100
              *

5020          KK    S76s STORAGE
5021          KM    Online Retention Basin, 0.7 ac-ft.
5022          RS       1    STOR       0
5023          SV       0     0.7       2
5024          SE       0       2       4
5025          SS       2     100     2.7     1.5
              *

5026          KK  BD76qP RETRIEVE
5027          KM    Retrieve diverted pipe flow from D76qP.
5028          DR   D76qP
              *

5029          KK   P76qS   ROUTE
5030          KM    Route pipe flow from 19th ave/Van Buren to subbasin 76s.
5031          RK    2200  0.0031   0.015            CIRC    6.25
              *

5032          KK  BD76qS RETRIEVE
5033          KM    Retrieve diverted surface flow from D76qS.
5034          DR   D76qS
              *

5035          KK   R76qS   ROUTE
5036          KM    Route surface flow south from Subbasin 76q to 76s.
5037          RS       2    FLOW      -1
5038          RC   0.050   0.016   0.050    2480  0.0032
5039          RX       0    1.55      62   151.9   158.1     248  308.45     310
5040          RY       3       1     0.5       0       0     0.5       1       3
              *

5041          KK   C76qS COMBINE
5042          KM    Combine hydrographs P76qS and R76qS.
```

```
5043          HC       2   11.45
              *

5044          KK    C76s COMBINE
5045          KM    Combine hydrographs S76s, C76qS, and R72sW.
5046          HC       3   13.28
              *
1                                        HEC-1 INPUT                                                    PAGE141

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5047          KK    D76s  DIVERT
5048          KM    Divert 204 cfs into pipe (south).
5049          DT   D76sP
5050          DI       0     100     204   10000
5051          DQ       0     100     204     204
              *

5052          KK   D76sW  DIVERT
5053          KM    Divert 22% of surface flow to south.
5054          DT   D76sS
5055          DI       0     100    1000   10000
5056          DQ       0      22     220    2200
              *

5057          KK   R76sW   ROUTE
5058          KM    Route surface flow west from Subbasin 76s to 80q.
5059          RS       3    FLOW      -1
5060          RC   0.050   0.016   0.050    2290  0.0009
5061          RX       0    1.25      50   122.5   127.5     200  248.75     250
5062          RY       3       1     0.5       0       0     0.5       1       3
              *

5063          KK   CC80q COMBINE
5064          KM    COmbine flows of C80q and R76sW
5065          HC       2   14.17
              *

5066          KK    D80q  DIVERT
5067          KM    Divert 364 cfs into pipe (south).
5068          DT   D80qP
5069          DI       0     100     364   10000
5070          DQ       0     100     364     364
              *

5071          KK   D80qS  DIVERT
5072          KM    Divert 100% of surface flow to west because of the SPRR.
5073          DT   D80qW
5074          DI       0     100    1000   10000
5075          DQ       0     100    1000   10000
              *

5076          KK   R80qS   ROUTE
5077          KM    Route surface flow south from Subbasin 80q to 80t.
5078          RS       2    FLOW      -1
5079          RC   0.050   0.016   0.050    2900  0.0042
5080          RX       0    0.75      30    73.5    76.5     120  149.25     150
5081          RY       3       1     0.5       0       0     0.5       1       3
              *
1                                        HEC-1 INPUT                                                    PAGE142

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5082          KK  BD80qP RETRIEVE
5083          KM    Retrieve diverted pipe flow from D80qP.
5084          DR   D80qP
              *

5085          KK   P80qS   ROUTE
5086          KM    Route pipe flow from SPRR/I-17 to subbasin 80t.
5087          RK    2700  0.0030   0.015            CIRC    7.50
              *

5088          KK   C80qS COMBINE
5089          KM    Combine hydrographs R80qS and P80qS.
5090          HC       2   14.17
              *

5091          KK     52t   BASIN
5092          KM    Subbasin at NEC of Buckeye and 16th St
5093          BA   0.297
5094          LG    0.15    0.15    8.00    0.11      42
5095          UC   0.914   0.571
5096          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
```

```
5097          UA     100
              *

5098          KK    S52t STORAGE
5099          KM    Online Retention Basin, 4 ac-ft.
5100          RS       1    STOR       0
5101          SV       0     1.6       4       7
5102          SE       0       2       4       6
5103          SS       4     100     2.7     1.5
              *

5104          KK  BD52sP RETRIEVE
5105          KM    Retrieve diverted pipe flow from D52sP.
5106          DR   D52sP
              *

5107          KK   P52sS   ROUTE
5108          KM    Route pipe flow from 16th st/SPRR to subbasin 52t.
5109          RK    2850  0.0139   0.015            CIRC    4.42
              *

5110          KK    C52t COMBINE
5111          KM    Combine hydrographs S52t and P52sS.
5112          HC       2    0.96
              *

5113          KK    D52t  DIVERT
5114          KM    Divert 281 cfs into pipe (south).
5115          DT   D52tP
5116          DI       0     100     281   10000
5117          DQ       0     100     281     281
              *
1                                          HEC-1 INPUT                                                    PAGE143

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5118          KK   D52tW  DIVERT
5119          KM    Divert 41% of surface flow to south.
5120          DT   D52tS
5121          DI       0     100    1000   10000
5122          DQ       0      41     410    4100
              *

5123          KK   R52tW   ROUTE
5124          KM    Route surface flow west from Subbasin 52t to 56t.
5125          RS       3    FLOW      -1
5126          RC   0.050   0.016   0.050    2640  0.0023
5127          RX       0     0.5      20      49      51      80    99.5     100
5128          RY       3       1     0.5       0       0     0.5       1       3
              *

5129          KK     56t   BASIN
5130          KM    Subbasin at NEC of Buckeye and 12th St
5131          BA   0.179
5132          LG    0.12    0.15    8.80    0.08      57
5133          UC   0.799   0.630
5134          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5135          UA     100
              *

5136          KK  BD56sP RETRIEVE
5137          KM    Retrieve diverted pipe flow from D56sP.
5138          DR   D56sP
              *

5139          KK   P56sS   ROUTE
5140          KM    Route pipe flow from subbasin 56s to subbasin 56t.
5141          RK    2900  0.0030   0.015            CIRC    6.00
              *

5142          KK  BD56sS RETRIEVE
5143          KM    Retrieve diverted surface flow from D56sS.
5144          DR   D56sS
              *

5145          KK   R56sS   ROUTE
5146          KM    Route surface flow south from Subbasin 56s to 56t.
5147          RS       6    FLOW      -1
5148          RC   0.050   0.016   0.050    2900  0.0030
5149          RX       0     1.3      52   127.4   132.6     208   258.7     260
5150          RY       3       1     0.5       0       0     0.5       1       3
              *

5151          KK   C56sS COMBINE
5152          KM    Combine hydrographs R56sS and P56sS.
```

```
5153          HC       2    1.27
              *
1                                          HEC-1 INPUT                                                    PAGE144

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5154          KK    C56t COMBINE
5155          KM    Combine hydrographs 56t, R52tW, and C56sS.
5156          HC       3    1.74
              *

5157          KK    D56t  DIVERT
5158          KM    Divert 612 cfs into pipe (south).
5159          DT   D56tP
5160          DI       0     100     612   10000
5161          DQ       0     100     612     612
              *

5162          KK   D56tW  DIVERT
5163          KM    Divert 35% of surface flow to south.
5164          DT   D56tS
5165          DI       0     100    1000   10000
5166          DQ       0      35     350    3500
              *

5167          KK   R56tW   ROUTE
5168          KM    Route surface flow west from Subbasin 56t to 60t.
5169          RS       2    FLOW      -1
5170          RC   0.050   0.016   0.050    2640  0.0023
5171          RX       0     0.5      20      49      51      80    99.5     100
5172          RY       3       1     0.5       0       0     0.5       1       3
              *

5173          KK     60t   BASIN
5174          KM    Subbasin at NEC of Buckeye and 7th St
5175          BA   0.328
5176          LG    0.17    0.15    8.00    0.11      42
5177          UC   0.943   0.638
5178          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5179          UA     100
              *

5180          KK    S60t STORAGE
5181          KM    Online Retention Basin, 0.7 ac-ft.
5182          RS       1    STOR       0
5183          SV       0     0.3     0.7     1.3
5184          SE       0       2       4       6
5185          SS       4     100     2.7     1.5
              *

5186          KK  BD60sS RETRIEVE
5187          KM    Retrieve diverted surface flow from D60sS.
5188          DR   D60sS
              *
1                                          HEC-1 INPUT                                                    PAGE145

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5189          KK   R60sS   ROUTE
5190          KM    Route surface flow south from Subbasin 60s to 60t.
5191          RS       3    FLOW      -1
5192          RC   0.050   0.016   0.050    2900  0.0035
5193          RX       0     1.3      52   127.4   132.6     208   258.7     260
5194          RY       3       1     0.5       0       0     0.5       1       3
              *

5195          KK    C60t COMBINE
5196          KM    Combine hydrographs R60sS, S60t and R56tW.
5197          HC       3    2.68
              *

5198          KK   D60tW  DIVERT
5199          KM    Divert 27% of surface flow to south.
5200          DT   D60tS
5201          DI       0     100    1000   10000
5202          DQ       0      27     270    2700
              *

5203          KK   R60tW   ROUTE
5204          KM    Route surface flow west from Subbasin 60t to 64t.
5205          RS       3    FLOW      -1
5206          RC   0.050   0.016   0.050    2640  0.0023
5207          RX       0    0.75      30    73.5    76.5     120  149.25     150
5208          RY       3       1     0.5       0       0     0.5       1       3
```

```
                *

5209            KK     64t   BASIN
5210            KM    Subbasin at NEC of Buckeye and Central
5211            BA   0.271
5212            LG    0.15    0.21    6.40    0.21      49
5213            UC   0.881   0.555
5214            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5215            UA     100
                *

5216            KK  BD64sP RETRIEVE
5217            KM    Retrieve diverted pipe flow from D64sP.
5218            DR   D64sP
                *

5219            KK   P64sS  ROUTE
5220            KM    Route pipe flow from subbasin 64s to subbasin 64t.
5221            KM    Two pipes equivalent D = 10'
5222            RK    2800  0.0035   0.015            CIRC    10.0
                *

5223            KK  BD64sS RETRIEVE
5224            KM    Retrieve diverted surface flow from D64sS.
5225            DR   D64sS
                *
```



```
LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5226            KK   R64sS   ROUTE
5227            KM    Route surface flow south from Subbasin 64s to 64t.
5228            RS       3    FLOW      -1
5229            RC   0.050   0.016   0.050    2900  0.0035
5230            RX       0     1.3      52   127.4   132.6     208   258.7     260
5231            RY       3       1     0.5       0       0     0.5       1       3
                *

5232            KK   C64sS COMBINE
5233            KM    Combine hydrographs R64sS and P64sS.
5234            HC       2    2.54
                *

5235            KK    C64t COMBINE
5236            KM    Combine flows of 64t, C64sS, and R60tW
5237            HC       3    3.61
                *

5238            KK    D64t  DIVERT
5239            KM    Divert 0.0 cfs into ADOT West Tunnel (assuming no connection).
5240            DT  D64tPT
5241            DI       0     100    1000   10000
5242            DQ       0       0       0       0
                *

5243            KK   D64t1  DIVERT
5244            KM    Divert 375 (327+48) cfs into pipes (south).
5245            DT   D64tP
5246            DI       0     100     375   10000
5247            DQ       0     100     375     375
                *

5248            KK   D64tW  DIVERT
5249            KM    Divert 44% of surface flow to south.
5250            DT   D64tS
5251            DI       0     100    1000   10000
5252            DQ       0      44     440    4400
                *

5253            KK   R64tW   ROUTE
5254            KM    Route surface flow west from Subbasin 64t to 68t.
5255            RS       3    FLOW      -1
5256            RC   0.050   0.016   0.050    2640  0.0023
5257            RX       0     1.3      52   127.4   132.6     208   258.7     260
5258            RY       3       1     0.5       0       0     0.5       1       3
                *

5259            KK     68t   BASIN
5260            KM    Subbasin at NEC of Buckeye and 7th Ave
5261            BA   0.251
5262            LG    0.20    0.15    8.80    0.08      33
5263            UC   0.770   0.499
5264            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5265            UA     100
                *
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5266          KK  BD68sP RETRIEVE
5267          KM    Retrieve diverted pipe flow from D68sP.
5268          DR   D68sP
              *

5269          KK   P68sS   ROUTE
5270          KM    Route pipe flow from 7th ave/SPRR to subbasin 68t.
5271          RK    2500  0.0030   0.015            CIRC    5.00
              *

5272          KK  BD68sS RETRIEVE
5273          KM    Retrieve diverted surface flow from D68sS.
5274          DR   D68sS
              *

5275          KK   R68sS   ROUTE
5276          KM    Route surface flow south from Subbasin 68s to 68t.
5277          RS       3    FLOW      -1
5278          RC   0.050   0.016   0.050    2600  0.0035
5279          RX       0     1.3      52   127.4   132.6     208   258.7     260
5280          RY       3       1     0.5       0       0     0.5       1       3
              *

5281          KK   C68sS COMBINE
5282          KM    Combine hydrographs R68sS and P68sS.
5283          HC       2    3.07
              *

5284          KK    C68t COMBINE
5285          KM    Combine flows of 68t, C68sS, and R64tW
5286          HC       3    4.39
              *

5287          KK    D68t  DIVERT
5288          KM    Divert 124 cfs into pipe (south).
5289          DT   D68tP
5290          DI       0     100     124   10000
5291          DQ       0     100     124     124
              *

5292          KK   D68tW  DIVERT
5293          KM    Divert 46% of surface flow to south.
5294          DT   D68tS
5295          DI       0     100    1000   10000
5296          DQ       0      46     460    4600
              *

5297          KK   R68tW   ROUTE
5298          KM    Route surface flow west from Subbasin 68t to 72t.
5299          RS       2    FLOW      -1
5300          RC   0.050   0.016   0.050    2640  0.0023
5301          RX       0    1.05      42   102.9   107.1     168  208.95     210
5302          RY       3       1     0.5       0       0     0.5       1       3
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5303          KK     72t   BASIN
5304          KM    Subbasin at NEC of Buckeye and 15th Ave
5305          BA   0.222
5306          LG    0.21    0.15    9.70    0.06      31
5307          UC   0.839   0.689
5308          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5309          UA     100
              *

5310          KK  BD72sS RETRIEVE
5311          KM    Retrieve diverted surface flow from D72sS.
5312          DR   D72sS
              *

5313          KK   R72sS   ROUTE
5314          KM    Route surface flow south from Subbasin 72s to 72t.
5315          RS       2    FLOW      -1
5316          RC   0.050   0.016   0.050    2400  0.0051
5317          RX       0    1.05      42   102.9   107.1     168  208.95     210
5318          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
5319          KK  BD72sP RETRIEVE
5320          KM    Retrieve diverted pipe flow from D72sP.
5321          DR   D72sP
              *

5322          KK  D72sP1  DIVERT
5323          KM    Divert flow into pipe (south).
5324          DT  D72sP2
5325          DI       0     662     700
5326          DQ       0     229     242
              *

5327          KK  P72sS1  ROUTE
5328          KM    Route pipe flow from subbasin 72s to subbasin 72t.
5329          RK    2350  0.0030   0.015            CIRC    8.00
              *

5330          KK  B72sP2 RETRIEVE
5331          KM    Retrieve diverted pipe flow from D72sP2.
5332          DR  D72sP2
              *

5333          KK  P72sS2  ROUTE
5334          KM    Route pipe flow from subbasin 72s to subbasin 72t.
5335          RK    2350  0.0031   0.015            CIRC     6.3
              *
1                                   HEC-1 INPUT                                          PAGE149

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5336          KK   C72sS COMBINE
5337          KM    Combine flow of R72sS, P72sS1, and P72sS2
5338          HC       3    4.68
              *

5339          KK    C72t COMBINE
5340          KM    Combine flows of C72sS, 72s, and R68tW
5341          HC       3    6.23
              *

5342          KK    D72t  DIVERT
5343          KM    Divert 714 cfs into pipe (433 cfs + 281 cfs) (south).
5344          DT   D72tP
5345          DI       0     100     714   10000
5346          DQ       0     100     714     714
              *

5347          KK   D72tW  DIVERT
5348          KM    Divert 53% of surface flow to south.
5349          DT   D72tS
5350          DI       0     100    1000   10000
5351          DQ       0      53     530    5300
              *

5352          KK   R72tW   ROUTE
5353          KM    Route surface flow west from Subbasin 72t to 76t.
5354          RS       3    FLOW      -1
5355          RC   0.050   0.016   0.050    2640  0.0015
5356          RX       0     1.3      52   127.4   132.6     208   258.7     260
5357          RY       3       1     0.5       0       0     0.5       1       3
              *

5358          KK     76t   BASIN
5359          KM    Subbasin at NEC of Buckeye and 19th Ave
5360          BA   0.272
5361          LG    0.19    0.15    9.70    0.06      36
5362          UC   0.858   0.570
5363          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5364          UA     100
              *

5365          KK  BD76sP RETRIEVE
5366          KM    Retrieve diverted pipe flow from D76sP.
5367          DR   D76sP
              *

5368          KK   P76sS   ROUTE
5369          KM    Route pipe flow from 19th ave/SPRR to subbasin 76t.
5370          RK    3000  0.0031   0.015            CIRC    6.00
              *
                                   HEC-1 INPUT                                          PAGE150

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
5371          KK  BD76sS RETRIEVE
5372          KM    Retrieve diverted surface flow from D76sS.
5373          DR   D76sS
              *

5374          KK   R76sS   ROUTE
5375          KM    Route surface flow south from Subbasin 76s to 76t.
5376          RS       3    FLOW      -1
5377          RC   0.050   0.016   0.050    2800  0.0033
5378          RX       0     0.8      32    78.4    81.6     128   159.2     160
5379          RY       3       1     0.5       0       0     0.5       1       3
              *

5380          KK   C76sS COMBINE
5381          KM    Combine hydrographs R76sS and P76sS.
5382          HC       2   13.28
              *

5383          KK    C76t COMBINE
5384          KM    Combine hydrographs C76sS, 76t, and R72tW.
5385          HC       3   15.10
              *

5386          KK    D76t  DIVERT
5387          KM    Divert 297 cfs into pipe (south) (249 cfs + 48 cfs).
5388          DT   D76tP
5389          DI       0     100     297   10000
5390          DQ       0     100     297     297
              *

5391          KK   D76tW  DIVERT
5392          KM    Divert 53% of surface flow to south.
5393          DT   D76tS
5394          DI       0     100    1000   10000
5395          DQ       0      53     530    5300
              *

5396          KK   R76tW   ROUTE
5397          KM    Route surface flow west from Subbasin 76t to 80t.
5398          RS       3    FLOW      -1
5399          RC   0.050   0.016   0.050    2640  0.0015
5400          RX       0    1.55      62   151.9   158.1     248  308.45     310
5401          RY       3       1     0.5       0       0     0.5       1       3
              *

5402          KK     80t   BASIN
5403          KM    Subbasin at NEC of Buckeye and I-17
5404          BA   0.252
5405          LG    0.19    0.25    5.80    0.24      35
5406          UC   0.810   0.580
5407          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5408          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5409          KK    C80t COMBINE
5410          KM    Combine flows of 80t, c80qS, and R76tW
5411          HC       3   16.24
              *

5412          KK    D80t  DIVERT
5413          KM    Divert 364 cfs into pipe (south).
5414          DT   D80tP
5415          DI       0     100     364   10000
5416          DQ       0     100     364     364
              *

5417          KK   R80tS   ROUTE
5418          KM    Route surface flow south from Subbasin 80t to 8ou.
5419          RS       2    FLOW      -1
5420          RC   0.050   0.016   0.050    2100  0.0048
5421          RX       0       1      40      98     102     160     199     200
5422          RY       3       1     0.5       0       0     0.5       1       3
              *

5423          KK     52u   BASIN
5424          KM    Subbasin at NEC of I-17 and 16th St
5425          BA   0.391
5426          LG    0.27    0.25    4.80    0.34      13
5427          UC   1.064   0.622
5428          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5429          UA     100
              *
```

```
5430          KK  BD52tS RETRIEVE
5431          KM    Retrieve diverted surface flow from D52tS.
5432          DR   D52tS
              *

5433          KK   R52tS   ROUTE
5434          KM    Route surface flow south from Subbasin 52t to 52u.
5435          RS       5    FLOW      -1
5436          RC   0.050   0.016   0.050    3530  0.0023
5437          RX       0     0.8      32    78.4    81.6     128   159.2     160
5438          RY       3       1     0.5       0       0     0.5       1       3
              *

5439          KK    C52u COMBINE
5440          KM    Combine hydrographs R52tS and 52u.
5441          HC       2    1.35
              *

5442          KK    S52u STORAGE
5443          KM    Online detention basin, 68 ac-ft.
5444          RS       1    STOR       0
5445          SV       0       8      21      35      50      68      90
5446          SE       0       2       4       6       8      10      12
5447          SL     1.0   12.56    0.62     0.5
5448          SS      10     200     2.7     1.5
              *
1                                          HEC-1 INPUT                                                    PAGE152

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5449          KK  BD52tP RETRIEVE
5450          KM    Retrieve diverted pipe flow from D52tP.
5451          DR   D52tP
              *

5452          KK   P52tS   ROUTE
5453          KM    Route pipe flow from 16th st/Buckeye to subbasin 52u.
5454          RK    3550  0.0038   0.015            CIRC    6.50
              *

5455          KK   CC52u COMBINE
5456          KM    Combine hydrographs S52u and P52tS.
5457          HC       2    1.35
              *

5458          KK    D52u  DIVERT
5459          KM    Divert 281 cfs into pipe (south).
5460          DT   D52uP
5461          DI       0     100     281   10000
5462          DQ       0     100     281     281
              *

5463          KK   D52uW  DIVERT
5464          KM    Divert 32% of surface flow to south.
5465          DT   D52uS
5466          DI       0     100    1000   10000
5467          DQ       0      32     320    3200
              *

5468          KK   R52uW   ROUTE
5469          KM    Route surface flow west from Subbasin 52u to 56u.
5470          RS       2    FLOW      -1
5471          RC   0.050   0.016   0.050    2660  0.0015
5472          RX       0     0.8      32    78.4    81.6     128   159.2     160
5473          RY       3       1     0.5       0       0     0.5       1       3
              *

5474          KK     56u   BASIN
5475          KM    Subbasin at NEC of I-17 and 12th St
5476          BA   0.326
5477          LG    0.22    0.25    4.70    0.38      23
5478          UC   1.120   0.698
5479          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5480          UA     100
              *

5481          KK  BD56tS RETRIEVE
5482          KM    Retrieve diverted surface flow from D56tS.
5483          DR   D56tS
              *
                                           HEC-1 INPUT                                                    PAGE153

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
5484          KK   R56tS   ROUTE
5485          KM    Route surface flow south from Subbasin 56t to 56u.
5486          RS       2    FLOW      -1
5487          RC   0.050   0.016   0.050    3400  0.0017
5488          RX       0     1.3      52   127.4   132.6     208   258.7     260
5489          RY       3       1     0.5       0       0     0.5       1       3
              *

5490          KK    C56u COMBINE
5491          KM    Combine hydrographs R56tS, 56u, and R52uW.
5492          HC       3    2.46
              *

5493          KK    S56u STORAGE
5494          KM    Regional Online Detention Basin, 4 ac-ft.
5495          RS       1    STOR       0
5496          SV       0       4      12
5497          SE       0       2       4
5498          SL    0.33   0.785    0.62     0.5
5499          SS       2     400     2.7     1.5
              *

5500          KK  BD56tP RETRIEVE
5501          KM    Retrieve diverted pipe flow from D56tP.
5502          DR   D56tP
              *

5503          KK   P56tS   ROUTE
5504          KM    Route pipe flow from 12th st/Buckeye to subbasin 56u.
5505          RK    3300  0.0060   0.015            CIRC    8.00
              *

5506          KK   CC56u COMBINE
5507          KM    Combine hydrographs S56u and P56tS.
5508          HC       2    2.46
              *

5509          KK    D56u  DIVERT
5510          KM    Divert 612 cfs into pipe (south).
5511          DT   D56uP
5512          DI       0     100     612   10000
5513          DQ       0     100     612     612
              *

5514          KK   D56uW  DIVERT
5515          KM    Divert 21% of surface flow to south.
5516          DT   D56uS
5517          DI       0     100    1000   10000
5518          DQ       0      21     210    2100
              *
1                                          HEC-1 INPUT                                                    PAGE154

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5519          KK   R56uW   ROUTE
5520          KM    Route surface flow west from Subbasin 56u to 60u.
5521          RS       6    FLOW      -1
5522          RC   0.050   0.016   0.050    2660  0.0010
5523          RX       0     0.8      32    78.4    81.6     128   159.2     160
5524          RY       3       1     0.5       0       0     0.5       1       3
              *

5525          KK     60u   BASIN
5526          KM    Subbasin at NEC of I-17 and 7th St
5527          BA   0.285
5528          LG    0.44    0.25    6.00    0.22      22
5529          UC   0.996   0.637
5530          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5531          UA     100
              *

5532          KK  BD60tS RETRIEVE
5533          KM    Retrieve diverted surface flow from D60tS.
5534          DR   D60tS
              *

5535          KK   R60tS   ROUTE
5536          KM    Route surface flow south from Subbasin 60t to 60u.
5537          RS       5    FLOW      -1
5538          RC   0.050   0.016   0.050    3175  0.0013
5539          RX       0    0.75      30    73.5    76.5     120  149.25     150
5540          RY       3       1     0.5       0       0     0.5       1       3
              *
```

```
5541          KK    C60u COMBINE
5542          KM    Combine hydrographs R60tS, 60u, and R56uW.
5543          HC       3     3.68
              *

5544          KK    S60u STORAGE
5545          KM    Regional online detention, 1 ac-ft.
5546          RS       1    STOR       0
5547          SV       0      0.3     0.6       1       2
5548          SE       0        2       4       6       8
5549          SQ       0       45      90     145     290
              *

5550          KK    D60u  DIVERT
5551          KM    Divert 124 cfs into pipe (south).
5552          DT   D60uP
5553          DI       0      100     124   10000
5554          DQ       0      100     124     124
              *
1                                   HEC-1 INPUT                                          PAGE155

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5555          KK   D60uW  DIVERT
5556          KM    Divert 33% of surface flow to south.
5557          DT   D60uS
5558          DI       0      100    1000   10000
5559          DQ       0       33     330    3300
              *

5560          KK   R60uW   ROUTE
5561          KM    Route surface flow west from Subbasin 60u to 64u.
5562          RS       4    FLOW      -1
5563          RC   0.050   0.016   0.050    2640  0.0015
5564          RX       0    0.75      30    73.5    76.5     120  149.25     150
5565          RY       3       1     0.5       0       0     0.5       1       3
              *

5566          KK     64u   BASIN
5567          KM    Subbasin at NEC of I-17 and Central
5568          BA   0.296
5569          LG    0.19    0.23    6.20    0.21      36
5570          UC   0.970   0.587
5571          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5572          UA     100
              *

5573          KK  BD64tP RETRIEVE
5574          KM    Retrieve diverted pipe flow from D64tP.
5575          DR   D64tP
              *

5576          KK   P64tS  ROUTE
5577          KM    Route pipe flow from subbasin 64t to subbasin 64u.
5578          KM    Two pipe equivalent D = 8.5'
5579          RK    3100  0.0035   0.015            CIRC     8.5
              *

5580          KK  BD64tS RETRIEVE
5581          KM    Retrieve diverted surface flow from D64tS.
5582          DR   D64tS
              *

5583          KK   R64tS   ROUTE
5584          KM    Route surface flow south from Subbasin 64t to 64u.
5585          RS       3    FLOW      -1
5586          RC   0.050   0.016   0.050    3100  0.0035
5587          RX       0     1.3      52   127.4   132.6     208   258.7     260
5588          RY       3       1     0.5       0       0     0.5       1       3
              *

5589          KK   C64tS COMBINE
5590          KM    Combine hydrographs R64tS and P64tS.
5591          HC       2     3.61
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5592          KK    C64u COMBINE
5593          KM    Combine hydrographs C64tS, 64u, and R60uW.
5594          HC       3     4.91
              *
```

```
5595          KK    D64u  DIVERT
5596          KM    Divert 0.0 cfs into ADOT west Tunnel (assuming no connection).
5597          DT  D64uPT
5598          DI       0     100    1000   10000
5599          DQ       0       0       0       0
              *

5600          KK   D64u1  DIVERT
5601          KM    Divert 375 cfs into pipe (south).
5602          DT   D64uP
5603          DI       0     100     375    1000   10000
5604          DQ       0     100     375     375     375
              *

5605          KK   D64uW  DIVERT
5606          KM    Divert 25% of surface flow to south.
5607          DT   D64uS
5608          DI       0     100    1000   10000
5609          DQ       0      25     250    2500
              *

5610          KK   R64uW   ROUTE
5611          KM    Route surface flow west from Subbasin 64u to 68u.
5612          RS       3    FLOW      -1
5613          RC   0.050   0.016   0.050    2650  0.0015
5614          RX       0     1.3      52   127.4   132.6     208   258.7     260
5615          RY       3       1     0.5       0       0     0.5       1       3
              *

5616          KK     68u   BASIN
5617          KM    Subbasin at NEC of I-17 and 7th Ave
5618          BA   0.280
5619          LG    0.20    0.15    8.80    0.08      32
5620          UC   0.949   0.603
5621          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5622          UA     100
              *

5623          KK  BD68tP RETRIEVE
5624          KM    Retrieve diverted pipe flow from D68tP.
5625          DR   D68tP
              *

5626          KK   P68tS   ROUTE
5627          KM    Route pipe flow from subbasin 68t to subbasin 68u.
5628          RK    2750  0.0030   0.015            CIRC    5.00
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5629          KK  BD68tS RETRIEVE
5630          KM    Retrieve diverted surface flow from D68tS.
5631          DR   D68tS
              *

5632          KK   R68tS   ROUTE
5633          KM    Route surface flow south from Subbasin 68t to 68u.
5634          RS       2    FLOW      -1
5635          RC   0.050   0.016   0.050    2800  0.0035
5636          RX       0     1.3      52   127.4   132.6     208   258.7     260
5637          RY       3       1     0.5       0       0     0.5       1       3
              *

5638          KK   C68tS COMBINE
5639          KM    Combine hydrographs R68tS and P68tS.
5640          HC       2    4.39
              *

5641          KK    C68u COMBINE
5642          KM    Combine hydrographs 68u, R64uW, and C68tS.
5643          HC       3    5.97
              *

5644          KK    D68u  DIVERT
5645          KM    Divert 146 cfs into pipe (south).
5646          DT   D68uP
5647          DI       0     100     146   10000
5648          DQ       0     100     146     146
              *

5649          KK   D68uW  DIVERT
5650          KM    Divert 21% of surface flow to south.
5651          DT   D68uS
5652          DI       0     100    1000   10000
```

```
5653          DQ       0      21     210    2100
              *

5654          KK   R68uW   ROUTE
5655          KM    Route surface flow west from Subbasin 68u to 72u.
5656          RS       3    FLOW      -1
5657          RC   0.050   0.016   0.050    2640  0.0015
5658          RX       0     0.8      32    78.4    81.6     128   159.2     160
5659          RY       3       1     0.5       0       0     0.5       1       3
              *

5660          KK     72u   BASIN
5661          KM    Subbasin at NEC of I-17 and 15th Ave
5662          BA   0.257
5663          LG    0.27    0.15    9.70    0.06      24
5664          UC   0.910   0.593
5665          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5666          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE158

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5667          KK    C72u COMBINE
5668          KM    Combine hydrographs 72u and R68uW.
5669          HC       2    6.23
              *

5670          KK  BD72tP RETRIEVE
5671          KM    Retrieve diverted pipe flow from D72tP.
5672          DR   D72tP
              *

5673          KK  D72tP1  DIVERT
5674          KM    Divert flow into pipe (south).
5675          DT  D72tP2
5676          DI       0     714     800
5677          DQ       0     281     315
              *

5678          KK  P72tS1  ROUTE
5679          KM    Route pipe flow from subbasin 72t to subbasin 72u.
5680          RK    2700  0.0030   0.015            CIRC     8.0
              *

5681          KK  B72tP2 RETRIEVE
5682          KM    Retrieve diverted pipe flow from D72tP2.
5683          DR  D72tP2
              *

5684          KK  P72tS2  ROUTE
5685          KM    Route pipe flow from subbasin 72t to subbasin 72u.
5686          RK    2700  0.0031   0.015            CIRC     6.8
              *

5687          KK   B72tS RETRIEVE
5688          KM    Retrieve diverted surface flow from D72tS.
5689          DR   D72tS
              *

5690          KK   R72tS   ROUTE
5691          KM    Route surface flow south from Subbasin 72t to 72u.
5692          RS       3    FLOW      -1
5693          RC   0.050   0.016   0.050    2820  0.0021
5694          RX       0     2.3      92   225.4   234.6     368   457.7     460
5695          RY       3       1     0.5       0       0     0.5       1       3
              *

5696          KK   C72tS COMBINE
5697          KM    Combine hydrographs R72tS, P72tS1, and P72tS2.
5698          HC       3    6.23
              *
1                                          HEC-1 INPUT                                          PAGE159

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5699          KK   CC72u COMBINE
5700          KM    Combine hydrographs C72tS and C72u.
5701          HC       2    8.06
              *

5702          KK    D72u  DIVERT
5703          KM    Divert 714 cfs into pipe (south) (433 cfs + 281 cfs).
5704          DT   D72uP
```

```
5705          DI       0     100     714   10000
5706          DQ       0     100     714     714
              *

5707          KK   D72uW  DIVERT
5708          KM    Divert 31% of surface flow to south.
5709          DT   D72uS
5710          DI       0     100    1000   10000
5711          DQ       0      31     310    3100
              *

5712          KK   R72uW   ROUTE
5713          KM    Route surface flow west from Subbasin 72u to 76u.
5714          RS       3    FLOW      -1
5715          RC   0.050   0.016   0.050    2640  0.0015
5716          RX       0    1.05      42   102.9   107.1     168  208.95     210
5717          RY       3       1     0.5       0       0     0.5       1       3
              *

5718          KK  BD76tP RETRIEVE
5719          KM    Retrieve diverted pipe flow from D76tP.
5720          DR   D76tP
              *

5721          KK  D76tP1  DIVERT
5722          KM    Divert 297 cfs into pipe (south).
5723          DT  D76tP2
5724          DI       0     297     300
5725          DQ       0      48      49
              *

5726          KK  P76tS1  ROUTE
5727          KM    Route pipe flow from subbasin 76t to subbasin 76u.
5728          RK    3000  0.0030   0.015            CIRC    6.50
              *

5729          KK  B76tP2 RETRIEVE
5730          KM    Retrieve diverted pipe flow from D76tP2.
5731          DR  D76tP2
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5732          KK  P76tS2  ROUTE
5733          KM    Route pipe flow from subbasin 76t to subbasin 76u.
5734          RK    3000  0.0030   0.015            CIRC     3.5
              *

5735          KK  BD76tS RETRIEVE
5736          KM    Retrieve diverted surface flow from D76tS.
5737          DR   D76tS
              *

5738          KK   R76tS   ROUTE
5739          KM    Route surface flow south from Subbasin 76t to 76u.
5740          RS       3    FLOW      -1
5741          RC   0.050   0.016   0.050    2665  0.0015
5742          RX       0     1.3      52   127.4   132.6     208   258.7     260
5743          RY       3       1     0.5       0       0     0.5       1       3
              *

5744          KK   C76tS COMBINE
5745          KM    Combine hydrographs R76tS, P76tS1, and P76tS2.
5746          HC       3   15.10
              *

5747          KK     76u   BASIN
5748          KM    Subbasin at NEC of I-17 and 19th Ave
5749          BA   0.283
5750          LG    0.32    0.15    9.70    0.06      23
5751          UC   0.945   0.573
5752          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5753          UA     100
              *

5754          KK    C76u COMBINE
5755          KM    Combine hydrographs 76u, C76tS, and R72uW.
5756          HC       3   17.22
              *

5757          KK    D76u  DIVERT
5758          KM    Divert 297 cfs into pipe (south) (48 cfs to 76v, 248 cfs to 80v).
5759          DT   D76uP
5760          DI       0     100     297   10000
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5761          DQ       0     100     297     297
              *

5762          KK   D76uW  DIVERT
5763          KM    Divert 0.0% of surface flow to south.
5764          DT   D76uS
5765          DI       0     100    1000   10000
5766          DQ       0     0.0     0.0     0.0
              *
1                                        HEC-1 INPUT                                                    PAGE161

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5767          KK   R76uW   ROUTE
5768          KM    Route surface flow west from Subbasin 76u to 80u.
5769          RS       2    FLOW      -1
5770          RC   0.050   0.016   0.050    2370  0.0025
5771          RX       0    0.75      30    73.5    76.5     120  149.25     150
5772          RY       3       1     0.5       0       0     0.5       1       3
              *

5773          KK     80u   BASIN
5774          KM    Subbasin at NEC of Durango and I-17
5775          BA   0.249
5776          LG    0.16    0.15    8.00    0.11      46
5777          UC   0.770   0.532
5778          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5779          UA     100
              *

5780          KK    C80u COMBINE
5781          KM    Combine flows of 80u, R80tS, and R76uW
5782          HC       3   18.61
              *

5783          KK  BD80tP RETRIEVE
5784          KM    Retrieve diverted pipe flow from D80tP.
5785          DR   D80tP
              *

5786          KK   P80tS   ROUTE
5787          KM    Route pipe flow from I-17/Buckeye to subbasin 80u.
5788          RK    2100  0.0030   0.015            CIRC    7.50
              *

5789          KK  BD80qW RETRIEVE
5790          KM    Retrieve diverted flow from D80qW.
5791          DR   D80qW
              *

5792          KK   CC80u COMBINE
5793          KM    Combine flows of C80u,D80qW, and P80tS
5794          HC       3   18.61
              *

5795          KK   S-I17 STORAGE
5796          KM    I-17 Depressed Segment and East Durango Cureve ponding Areas
5797          KM    Online Regional Detention Basin, 320 ac-ft.
5798          RS       1    STOR       0
5799          SV       0       6      29      45     112     169     320     360     396     425
5800          SE       0       2       6       8      12      14      16      17    17.6      18
5801          SQ     0.0     183     316     365     448     483     517     674    2224    4564
              *
1                                        HEC-1 INPUT                                                    PAGE162

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5802          KK    D80u  DIVERT
5803          KM    Divert 509 cfs into pipe (west).
5804          DT   D80uP
5805          DI       0     100     509   10000
5806          DQ       0     100     509     509
              *

5807          KK   R80uW   ROUTE
5808          KM    Route surface flow west from Subbasin 80u to 84u.
5809          RS       2    FLOW      -1
5810          RC   0.050   0.016   0.050    2760  0.0014
5811          RX       0     1.0      40      98     102     160     199     200
5812          RY       3       1     0.5       0       0     0.5       1       3
              *

5813          KK     84t   BASIN
5814          KM    Subbasin at NEC of Buckeye and 27th Ave
```

```
5815          BA   0.273
5816          LG    0.14    0.15    7.60    0.13      55
5817          UC   0.862   0.684
5818          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5819          UA     100
              *

5820          KK   P84tN  INFLOW
5821          KM   Inflow from storm drain north of SPRR along 27th Avenue.
5822          KM   Maximum flow 252 cfs.
5823          IN      60
5824          BA     0.5
5825          QI       0       1       2       3       4       4       5       5       6       6
5826          QI       8      10      17     252      74      21       9       7       6       5
5827          QI       5       4       1     0.5     0.1
              *

5828          KK    C84t COMBINE
5829          KM    Combine hydrographs P84tN and 80t.
5830          HC       2    0.77
              *

5831          KK    D84t  DIVERT
5832          KM    Divert 252 cfs into pipe (south).
5833          DT   D84tP
5834          DI       0     100     252   10000
5835          DQ       0     100     252     252
              *

5836          KK   D84tS  DIVERT
5837          KM    Divert 13% of surface flow to west.
5838          DT   D84tW
5839          DI       0     100    1000   10000
5840          DQ       0      13     130    1300
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5841          KK   R84tS   ROUTE
5842          KM    Route surface flow south from Subbasin 84t to 84u.
5843          RS       2    FLOW      -1
5844          RC   0.050   0.016   0.050    2760  0.0018
5845          RX       0    1.05      42   102.9   107.1     168  208.95     210
5846          RY       3       1     0.5       0       0     0.5       1       3
              *

5847          KK     84u   BASIN
5848          KM    Subbasin at NEC of Durango and 27th Ave
5849          BA   0.263
5850          LG    0.61    0.15    8.00    0.11      41
5851          UC   0.928   0.604
5852          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5853          UA     100
              *

5854          KK    C84u COMBINE
5855          KM    Combine hydrographs R84tS, 84u, and R80uW.
5856          HC       3    9.04
              *

5857          KK    S84u STORAGE
5858          KM    Online Regional Detention Basin, 3 ac-ft.
5859          RS       1    STOR       0
5860          SV       0       3      13
5861          SE       0       2       4
5862          SQ       0      30    3000
              *

5863          KK  BD84tP RETRIEVE
5864          KM    Retrieve diverted pipe flow from D84tP.
5865          DR   D84tP
              *

5866          KK   P84tS   ROUTE
5867          KM    Route pipe flow from I-17/Buckeye to subbasin 84u.
5868          RK    2650  0.0031   0.015            CIRC    6.50
              *

5869          KK   CC84u COMBINE
5870          KM    Combine hydrographs P84tS and S84u.
5871          HC       2    9.04
              *

5872          KK    D84u  DIVERT
```

```
5873          KM    Divert 252 cfs into pipe (south).
5874          DT   D84uP
5875          DI       0     100     252   10000
5876          DQ       0     100     252     252
              *
                                        HEC-1 INPUT                                                    PAGE164

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5877          KK   D84uW  DIVERT
5878          KM    Divert 20% of surface flow to south.
5879          DT   D84uS
5880          DI       0     100    1000   10000
5881          DQ       0      20     200    2000
              *

5882          KK   R84uW   ROUTE
5883          KM    Route surface flow west from Subbasin 84u to 88u.
5884          RS       3    FLOW      -1
5885          RC   0.050   0.016   0.050    2760  0.0022
5886          RX       0    1.05      42   102.9   107.1     168  208.95     210
5887          RY       3       1     0.5       0       0     0.5       1       3
              *

5888          KK     88t   BASIN
5889          KM    Subbasin at NEC of Buckeye and 35th Ave
5890          BA   0.259
5891          LG    0.18    0.25    6.00    0.23      44
5892          UC   1.007   0.838
5893          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5894          UA     100
              *

5895          KK  BD84tW RETRIEVE
5896          KM    Retrieve diverted surface flow from D84tW.
5897          DR   D84tW
              *

5898          KK   R84tW   ROUTE
5899          KM    Route surface flow west from Subbasin 84t to 88t.
5900          RS       4    FLOW      -1
5901          RC   0.050   0.016   0.050    2760  0.0011
5902          RX       0     0.5      20      49      51      80    99.5     100
5903          RY       3       1     0.5       0       0     0.5       1       3
              *

5904          KK    C88t COMBINE
5905          KM    Combine hydrographs 88t and R84tW.
5906          HC       2    1.03
              *

5907          KK   D88tS  DIVERT
5908          KM    Divert 30% of surface flow to west.
5909          DT   D88tW
5910          DI       0     100    1000   10000
5911          DQ       0      30     300    3000
              *
1                                       HEC-1 INPUT                                                    PAGE165

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5912          KK   R88tS   ROUTE
5913          KM    Route surface flow south from Subbasin 88t to 88u.
5914          RS       3    FLOW      -1
5915          RC   0.050   0.016   0.050    2760  0.0036
5916          RX       0    1.05      42   102.9   107.1     168  208.95     210
5917          RY       3       1     0.5       0       0     0.5       1       3
              *

5918          KK     88u   BASIN
5919          KM    Subbasin at NEC of Durango and 35th Ave
5920          BA   0.250
5921          LG    0.31    0.15    8.40    0.09      40
5922          UC   0.896   0.750
5923          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5924          UA     100
              *

5925          KK    C88u COMBINE
5926          KM    Combine hydrographs 88u, R84uW, and R88tS.
5927          HC       3    9.55
              *

5928          KK    D88u  DIVERT
```

```
5929          KM    Divert 36 cfs into pipe (west).
5930          DT   D88uP
5931          DI       0      36    1000   10000
5932          DQ       0      36      36      36
              *

5933          KK   D88uW  DIVERT
5934          KM    Divert 76% of surface flow to south.
5935          DT   D88uS
5936          DI       0     100    1000   10000
5937          DQ       0      76     760    7600
              *

5938          KK   R88uW   ROUTE
5939          KM    Route surface flow west from Subbasin 88u to 92u.
5940          RS       2    FLOW      -1
5941          RC   0.050   0.016   0.050    2760  0.0014
5942          RX       0    0.75      30    73.5    76.5     120  149.25     150
5943          RY       3       1     0.5       0       0     0.5       1       3
              *

5944          KK  BD88uP RETRIEVE
5945          KM    Retrieve diverted pipe flow from D88uP.
5946          DR   D88uP
              *
1                                        HEC-1 INPUT                                                    PAGE166

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5947          KK   P88uW   ROUTE
5948          KM    Route pipe flow from subbasin 88u to subbasin 92u.
5949          RK    2600  0.0039   0.015            CIRC     3.0
              *

5950          KK   C88uW COMBINE
5951          KM    Combine hydrographs R88uW and P88uW.
5952          HC       2    9.55
              *

5953          KK     92t   BASIN
5954          KM    Subbasin at NEC of Buckeye and 43rd Ave
5955          BA   0.175
5956          LG    0.21    0.25    5.20    0.32      32
5957          UC   0.984   0.902
5958          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5959          UA     100
              *

5960          KK  BD88tW RETRIEVE
5961          KM    Retrieve diverted surface flow from D88tW.
5962          DR   D88tW
              *

5963          KK   R88tW   ROUTE
5964          KM    Route surface flow west from Subbasin 88t to 92t.
5965          RS       3    FLOW      -1
5966          RC   0.050   0.016   0.050    1990   0.002
5967          RX       0    0.75      30    73.5    76.5     120  149.25     150
5968          RY       3       1     0.5       0       0     0.5       1       3
              *

5969          KK    C92t COMBINE
5970          KM    Combine hydrographs R88tW and 92t.
5971          HC       2    1.21
              *

5972          KK   R92tS   ROUTE
5973          KM    Route surface flow south from Subbasin 92t to 92u.
5974          RS       3    FLOW      -1
5975          RC   0.050   0.016   0.050    2760  0.0040
5976          RX       0     0.5      20      49      51      80    99.5     100
5977          RY       3       1     0.5       0       0     0.5       1       3
              *

5978          KK     92u   BASIN
5979          KM    Subbasin at NEC of Durango and 43rd Ave
5980          BA   0.249
5981          LG    0.16    0.25    6.00    0.23      44
5982          UC   0.886   0.743
5983          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
5984          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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5985          KK   P92uN  INFLOW
5986          KM   Inflow from storm drain north of Durango Street along 35th Avenue.
5987          KM   Maximum flow 141 cfs.
5988          IN      60
5989          BA     2.5
5990          QI     0.0       1       2       3       3       4       4       5       5       5
5991          QI       7       9      30     141      69      27       8       6       5       5
5992          QI       4       3       2     0.5     0.0
              *

5993          KK    C92u COMBINE
5994          KM    Combine flows of 92u, C88uW, P92uN, and R92tS
5995          HC       4   10.17
              *

5996          KK    D92u  DIVERT
5997          KM    Divert 201 cfs into pipe (south).
5998          DT   D92uP
5999          DI       0     100     201   10000
6000          DQ       0     100     201     201
              *

6001          KK   R92uS   ROUTE
6002          KM    Route surface flow south from Subbasin 92u to 92v.
6003          RS       1    FLOW      -1
6004          RC   0.050   0.016   0.050    1650  0.0048
6005          RX       0     0.5      20      49      51      80    99.5     100
6006          RY       3       1     0.5       0       0     0.5       1       3
              *

6007          KK   B92uP RETRIEVE
6008          KM    Retrieve diverted pipe flow from D92uP.
6009          DR   D92uP
              *

6010          KK   P92uS   ROUTE
6011          KM    Route pipe flow from subbasin 92u to subbasin 92v.
6012          RK    1500  0.0030   0.015            CIRC    6.00
              *

6013          KK   C92uS COMBINE
6014          KM    Combine hydrographs R92uS and P92uS.
6015          HC       2   10.17
              *

6016          KK     76v   BASIN
6017          KM    Subbasin at NEC of Lower Buckeye and 19th Ave
6018          BA   0.240
6019          LG    0.21    0.25    4.90    0.40      41
6020          UC   0.966   0.797
6021          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6022          UA     100
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6023          KK   B76uP RETRIEVE
6024          KM    Retrieve diverted pipe flow from D76uP.
6025          DR   D76uP
              *

6026          KK  D76uP2  DIVERT
6027          KM    Divert 297 cfs into pipes (249 cfs to west, 48 cfs to south).
6028          DT  D76uP1
6029          DI       0     297    1000
6030          DQ       0     249     249
              *

6031          KK  P76uS2  ROUTE
6032          KM    Route pipe flow from 19th ave/I-17 to subbasin 76v.
6033          RK    2300  0.0030   0.015            CIRC    3.50
              *

6034          KK  BD76uS RETRIEVE
6035          KM    Retrieve diverted flow from D76uS.
6036          DR   D76uS
              *

6037          KK   R76uS   ROUTE
6038          KM    Route surface flow south from Subbasin 76u to 76v.
6039          RS       2    FLOW      -1
6040          RC   0.050   0.016   0.050    2640  0.0023
```

```
6041          RX       0     0.5      20      49      51      80    99.5     100
6042          RY       3       1     0.5       0       0     0.5       1       3
              *

6043          KK   C76uS COMBINE
6044          KM    Combine hydrographs P76uS2 and R76uS.
6045          HC       2   17.22
              *

6046          KK    C76v COMBINE
6047          KM    Combine hydrographs 76v and C76uS.
6048          HC       2    8.24
              *

6049          KK    D76v  DIVERT
6050          KM    Divert 109 cfs into pipe (south).
6051          DT   D76vP
6052          DI       0     100     109   10000
6053          DQ       0     100     109     109
              *

6054          KK   D76vW  DIVERT
6055          KM    Divert 53% of surface flow to south.
6056          DT   D76vS
6057          DI       0     100    1000   10000
6058          DQ       0      53     530    5300
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6059          KK   R76vW   ROUTE
6060          KM    Route surface flow west from Subbasin 76v to 80v.
6061          RS       6    FLOW      -1
6062          RC   0.050   0.016   0.050    2570  0.0008
6063          RX       0     0.5      20      49      51      80    99.5     100
6064          RY       3       1     0.5       0       0     0.5       1       3
              *

6065          KK     80v   BASIN
6066          KM    Subbasin at NEC of Lower Buckeye and 23rd Ave
6067          BA   0.231
6068          LG    0.16    0.15    8.00    0.12      59
6069          UC   0.831   0.621
6070          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6071          UA     100
              *

6072          KK  B76uP1 RETRIEVE
6073          KM    Retrieve diverted pipe flow from D76uP1.
6074          DR  D76uP1
              *

6075          KK  P76uS1  ROUTE
6076          KM    Route pipe flow from subbasin 76u to subbasin 80v.
6077          RK    4000  0.0030   0.015            CIRC     6.5
              *

6078          KK    C80v COMBINE
6079          KM    COmbine flows of 80v, P76uS1, and R76vW
6080          HC       3    8.23
              *

6081          KK    D80v  DIVERT
6082          KM    Divert 249 cfs into pipe (southwest).
6083          DT   D80vP
6084          DI       0     100     249   10000
6085          DQ       0     100     249     249
              *

6086          KK   D80vW  DIVERT
6087          KM    Divert 56% of surface flow to south.
6088          DT   D80vS
6089          DI       0     100    1000   10000
6090          DQ       0      56     560    5600
              *

6091          KK   R80vW   ROUTE
6092          KM    Route surface flow west from Subbasin 80v to 84v.
6093          RS       8    FLOW      -1
6094          RC   0.050   0.016   0.050    2640  0.0004
6095          RX       0    1.25      50   122.5   127.5     200  248.75     250
6096          RY       3       1     0.5       0       0     0.5       1       3
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6097          KK     84v   BASIN
6098          KM    Subbasin at NEC of Lower Buckeye and 27th Ave
6099          BA   0.254
6100          LG    1.75    0.15    9.70    0.07      35
6101          UC   1.050   0.685
6102          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6103          UA     100
              *

6104          KK  BD80uP RETRIEVE
6105          KM    Retrieve diverted pipe flow from D80uP.
6106          DR   D80uP
              *

6107          KK   P80uS   ROUTE
6108          KM    Route pipe flow from subbasin 80u to subbasin 84v.
6109          RK    4000  0.0030   0.015            CIRC     8.5
              *

6110          KK    C84v COMBINE
6111          KM    Combine hydrographs 84v, P80uS, and R80vW.
6112          HC       3    8.73
              *

6113          KK  BD84uP RETRIEVE
6114          KM    Retrieve diverted pipe flow from D84uP.
6115          DR   D84uP
              *

6116          KK   P84uS   ROUTE
6117          KM    Route pipe flow from subbasin 84u to subbasin 84v.
6118          RK    2600  0.0030   0.015            CIRC   10.33
              *

6119          KK  BD84uS RETRIEVE
6120          KM    Retrieve diverted surface flow from D84uS.
6121          DR   D84uS
              *

6122          KK   R84uS   ROUTE
6123          KM    Route surface flow south from Subbasin 84u to 84v
6124          RS       3    FLOW      -1
6125          RC   0.050   0.016   0.050    2600  0.0023
6126          RX       0    0.75      30    73.5    76.5     120  149.25     150
6127          RY       3       1     0.5       0       0     0.5       1       3
              *

6128          KK   C84uS COMBINE
6129          KM    Combine hydrographs R84uS and P84uS.
6130          HC       2    9.04
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6131          KK   CC84v COMBINE
6132          KM    Combine hydrographs C84uS and C84v.
6133          HC       2    9.76
              *

6134          KK    D84v  DIVERT
6135          KM    Divert 1269 cfs into pipes (252 + 509 + 508).
6136          KM    Flows of 509 and 508 combined.
6137          DT   D84vP
6138          DI       0     100    1000    1269   10000
6139          DQ       0     100    1000    1269    1269
              *

6140          KK   D84vW  DIVERT
6141          KM    Divert 37% of surface flow to south.
6142          DT   D84vS
6143          DI       0     100    1000   10000
6144          DQ       0      37     370    3700
              *

6145          KK   R84vW   ROUTE
6146          KM    Route surface flow west from Subbasin 84v to 88v.
6147          RS       2    FLOW      -1
6148          RC   0.050   0.016   0.050    2760  0.0025
6149          RX       0     0.5      20      49      51      80    99.5     100
6150          RY       3       1     0.5       0       0     0.5       1       3
```

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                *
6151            KK     88v   BASIN
6152            KM    Subbasin at NEC of Lower Buckeye and 35th Ave
6153            BA   0.248
6154            LG    0.20    0.13   10.10    0.05      34
6155            UC   0.999   0.851
6156            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6157            UA     100
                *

6158            KK  BD88uS RETRIEVE
6159            KM    Retrieve diverted surface flow from D88uS.
6160            DR   D88uS
                *

6161            KK   R88uS   ROUTE
6162            KM    Route surface flow south from Subbasin 88u to 88v.
6163            RS       2    FLOW      -1
6164            RC   0.050   0.016   0.050    2760  0.0033
6165            RX       0    0.75      30    73.5    76.5     120  149.25     150
6166            RY       3       1     0.5       0       0     0.5       1       3
                *
1                                                HEC-1 INPUT                                                PAGE172

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6167            KK    C88v COMBINE
6168            KM    Combine hydrographs 88v, R88uS, and R84vS.
6169            HC       3   10.52
                *

6170            KK    D88v  DIVERT
6171            KM    Divert 51 cfs into pipe (south).
6172            DT   D88vP
6173            DI       0      51    1000   10000
6174            DQ       0      51      51      51
                *

6175            KK   R88vW   ROUTE
6176            KM    Route surface flow west from Subbasin 88v to 92v.
6177            RS       3    FLOW      -1
6178            RC   0.050   0.016   0.050    2750  0.0011
6179            RX       0    1.05      42   102.9   107.1     168  208.95     210
6180            RY       3       1     0.5       0       0     0.5       1       3
                *

6181            KK     92v   BASIN
6182            KM    Subbasin at NEC of Lower Buckeye and 43rd Ave
6183            BA   0.159
6184            LG    0.10    0.13   10.10    0.05      72
6185            UC   0.701   0.613
6186            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6187            UA     100
                *

6188            KK    C92v COMBINE
6189            KM    Combine flows of C92uS, 92v and R88vW
6190            HC       3   11.30
                *

6191            KK   D92vP  DIVERT
6192            KM    Divert 201 cfs into pipe (west)
6193            DT    D92v
6194            DI       0     201    1000   10000
6195            DQ       0       0     799    9799
                *

6196            KK   P92vS   ROUTE
6197            KM    Route pipe flow from subbasin 92v to subbasin 88w.
6198            RK    4900  0.0030   0.015            CIRC    6.00
                *

6199            KK     88w   BASIN
6200            KM    Subbasin at NEC of Salt River and 43rd Ave
6201            BA   0.599
6202            LG    0.17    0.25    5.10    0.34      40
6203            UC   1.111   0.666
6204            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6205            UA     100
                *
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LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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6206          KK  BD88vP RETRIEVE
6207          KM    Retrieve diverted pipe flow from D88vP.
6208          DR   D88vP
              *

6209          KK   P88vS   ROUTE
6210          KM    Route pipe flow from subbasin 88v to subbasin 88w.
6211          RK    2600  0.0034   0.015            CIRC     3.5
              *

6212          KK    C88w COMBINE
6213          KM    Combine hydrographs P88vS, P92vS, and 88w.
6214          HC       3   11.90
              *

6215          KK     44v   BASIN
6216          KM   Subbasin at NEC of Salt River and 20th St
6217          BA   0.236
6218          LG    0.21    0.29    2.49    1.68      24
6219          UC   1.080   0.737
6220          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6221          UA     100
              *

6222          KK  BD44sP RETRIEVE
6223          KM    Retrieve diverted pipe flow from D44sP.
6224          DR   D44sP
              *

6225          KK   P44sS   ROUTE
6226          KM    Route pipe flow from 24th st/SPRR to subbasin 44v.
6227          RK    9500  0.0030   0.015            CIRC    6.00
              *

6228          KK    C44v COMBINE
6229          KM    Combine hydrographs 44v and P44sS.
6230          HC       2    4.03
              *

6231          KK  B48oPT RETRIEVE
6232          KM    Retrieve diverted East Tunnel flow from D48oPT.
6233          DR  D48oPT
              *

6234          KK   PT48o   ROUTE
6235          KM    Route East Tunnel flow from 20th st/Moreland to subbasin 48q.
6236          RK    3800  0.0030   0.015            CIRC    21.0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6237          KK  B48qPT RETRIEVE
6238          KM    Retrieve diverted flow to East Tunnel from D48qPT.
6239          DR  D48qPT
              *

6240          KK  CPT48q COMBINE
6241          KM    Combine hydrographs PT48o and D48qPT.
6242          HC       2   16.11
              *

6243          KK   PT48q   ROUTE
6244          KM    Route East Tunnel flow from subbasin 48q to subbasin 48s.
6245          RK    2500   0.003   0.015            CIRC    21.0
              *

6246          KK  B48sPT RETRIEVE
6247          KM    Retrieve diverted flow to East Tunnel from D48sPT.
6248          DR  D48sPT
              *

6249          KK  CPT48s COMBINE
6250          KM    Combine hydrographs PT48q and D48sPT.
6251          HC       2   17.54
              *

6252          KK   PT48s   ROUTE
6253          KM    Route East Tunnel flow from subbasin 48s to subbasin 48v.
6254          RK    9500   0.003   0.015            CIRC   21.00
              *

6255          KK     48v   BASIN
6256          KM    Subbasin at NEC of Salt River and 20th St
```

```
6257          BA   0.299
6258          LG    0.10    0.28    2.59    1.77      68
6259          UC   0.887   0.696
6260          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6261          UA     100
              *

6262          KK    C48v COMBINE
6263          KM    Combine hydrographs 48v and PT48s.
6264          HC       2   17.84
              *

6265          KK  NUL48v COMBINE
6266          KM    Combine hydrographs C48v and C44v.
6267          HC       2   18.08
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6268          KK     52v   BASIN
6269          KM   Subbasin at NEC of Salt River and 16th St
6270          BA   0.297
6271          LG    0.22    0.28    2.65    1.41      22
6272          UC   1.129   0.715
6273          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6274          UA     100
              *

6275          KK  BD52uP RETRIEVE
6276          KM    Retrieve diverted pipe flow from D52uP.
6277          DR   D52uP
              *

6278          KK   P52uS   ROUTE
6279          KM    Route pipe flow from 16th st/I-17 to subbasin 52v.
6280          RK    2700  0.0038   0.015            CIRC    6.50
              *

6281          KK  BD52uS RETRIEVE
6282          KM    Retrieve diverted surface flow from D52uS.
6283          DR   D52uS
              *

6284          KK   R52uS   ROUTE
6285          KM    Route surface flow south from Subbasin 52u to 52v.
6286          RS       2    FLOW      -1
6287          RC   0.050   0.016   0.050    3080  0.0026
6288          RX       0     0.5      20      49      51      80    99.5     100
6289          RY       3       1     0.5       0       0     0.5       1       3
              *

6290          KK   C52uS COMBINE
6291          KM    Combine hydrographs R52uS and P52uS.
6292          HC       2    1.35
              *

6293          KK    C52v COMBINE
6294          KM    Combine hydrographs 52v and C52uS.
6295          HC       2    1.64
              *

6296          KK  NUL52v COMBINE
6297          KM    Combine hydrographs C52v and NUL48v.
6298          HC       2   19.72
              *

6299          KK     56v   BASIN
6300          KM    Subbasin at NEC of Salt River and 12th St
6301          BA   0.231
6302          LG    0.20    0.24    4.40    0.47      28
6303          UC   1.063   0.934
6304          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6305          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6306          KK  BD56uP RETRIEVE
6307          KM    Retrieve diverted pipe flow from D56uP.
6308          DR   D56uP
              *
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```
6309          KK   P56uS   ROUTE
6310          KM    Route pipe flow from subbasin 56u to subbasin 56v.
6311          RK    2500  0.0060   0.015            CIRC    8.00
              *

6312          KK  BD56uS RETRIEVE
6313          KM    Retrieve diverted surface flow from D56uS.
6314          DR   D56uS
              *

6315          KK   R56uS   ROUTE
6316          KM    Route surface flow south from Subbasin 56u to 56v.
6317          RS       4    FLOW      -1
6318          RC   0.050   0.016   0.050    2500  0.0034
6319          RX       0     0.5      20      49      51      80    99.5     100
6320          RY       3       1     0.5       0       0     0.5       1       3
              *

6321          KK   C56uS COMBINE
6322          KM    Combine hydrographs R56uS and P56uS.
6323          HC       2    2.46
              *

6324          KK    C56v COMBINE
6325          KM    Combine hydrographs 56v and C56uS.
6326          HC       2    2.69
              *

6327          KK  NUL56v COMBINE
6328          KM    Combine hydrographs C56v and NUL52v.
6329          HC       2   21.07
              *

6330          KK     60v   BASIN
6331          KM    Subbasin at NEC of Salt River and 7th St
6332          BA   0.228
6333          LG    0.15    0.24    4.90    0.38      43
6334          UC   0.961   0.789
6335          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6336          UA     100
              *

6337          KK  BD60uP RETRIEVE
6338          KM    Retrieve diverted pipe flow from D60uP.
6339          DR   D60uP
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6340          KK   P60uS   ROUTE
6341          KM    Route pipe flow from subbasin 60u to subbasin 60v.
6342          RK    2400  0.0030   0.015            CIRC    5.00
              *

6343          KK  BD60uS RETRIEVE
6344          KM    Retrieve diverted surface flow from D60uS.
6345          DR   D60uS
              *

6346          KK   R60uS   ROUTE
6347          KM    Route surface flow south from Subbasin 60u to 60v.
6348          RS       3    FLOW      -1
6349          RC   0.050   0.016   0.050    2400  0.0034
6350          RX       0     0.5      20      49      51      80    99.5     100
6351          RY       3       1     0.5       0       0     0.5       1       3
              *

6352          KK   C60uS COMBINE
6353          KM    Combine hydrographs R60uS and P60uS.
6354          HC       2    3.68
              *

6355          KK    C60v COMBINE
6356          KM    Combine hydrographs C60uS and 60v.
6357          HC       2    3.91
              *

6358          KK  NUL60v COMBINE
6359          KM    Combine hydrographs C60v and NUL56v.
6360          HC       2   22.51
              *

6361          KK  BPT64o RETRIEVE
6362          KM    Retrieve diverted West Tunnel flow from DPT64o.
```

```
6363          DR  DPT64o
              *

6364          KK  B64qPT RETRIEVE
6365          KM    Retrieve diverted West Tunnel flow from D64qPT.
6366          DR  D64qPT
              *

6367          KK  CPT64q COMBINE
6368          KM    Combine hydrographs DPT64o and D64qPT.
6369          HC       2   22.55
              *

6370          KK   PT64q   ROUTE
6371          KM    Route West Tunnel flow from subbasin 64q to subbasin 64s.
6372          RK    2500   0.003   0.015            CIRC    21.0
              *
1                                   HEC-1 INPUT                                          PAGE178

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6373          KK  B64sPT RETRIEVE
6374          KM    Retrieve diverted West Tunnel flow from D64sPT.
6375          DR  D64sPT
              *

6376          KK  CPT64s COMBINE
6377          KM    Combine hydrographs D64sPT and PT64q.
6378          HC       2   23.58
              *

6379          KK   PT64s  ROUTE
6380          KM    Route West Tunnel flow from subbasin 64s to subbasin 64t.
6381          RK    2800   0.003   0.015            CIRC    21.0
              *

6382          KK  B64tPT RETRIEVE
6383          KM    Retrieve diverted West Tunnel flow from D64tPT.
6384          DR  D64tPT
              *

6385          KK  CPT64t COMBINE
6386          KM    Combine hydrographs PT64s and D64tPT.
6387          HC       2   24.65
              *

6388          KK   PT64t  ROUTE
6389          KM    Route West Tunnel flow from subbasin 64t to subbasin 64u.
6390          RK    3100  0.003    0.015            CIRC    21.0
              *

6391          KK  B64uPT RETRIEVE
6392          KM    Retrieve diverted pipe flow from D64uPT.
6393          DR  D64uPT
              *

6394          KK  CPT64u COMBINE
6395          KM    Combine hydrographs PT64t and D64uPT.
6396          HC       2   25.95
              *

6397          KK  PT64u  ROUTE
6398          KM    Route West Tunnel flow from subbasin 64u to subbasin 64v.
6399          RK    2000  0.003   0.015             CIRC    21.0
              *

6400          KK     64v   BASIN
6401          KM    Subbasin at NEC of Salt River and Central
6402          BA   0.195
6403          LG    0.10    0.25    4.55    0.49      61
6404          UC   0.851   0.618
6405          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6406          UA     100
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6407          KK  BD64uP RETRIEVE
6408          KM    Retrieve diverted pipe flow from D64uP.
6409          DR   D64uP
              *

6410          KK   P64uS  ROUTE
```

```
6411          KM    Route pipe flow from subbasin 64u to subbasin 64v.
6412          RK    2000  0.0035   0.015            CIRC     8.0
              *

6413          KK  BD64uS RETRIEVE
6414          KM    Retrieve diverted surface flow from D64uS.
6415          DR   D64uS
              *

6416          KK   R64uS   ROUTE
6417          KM    Route surface flow south from Subbasin 64u to 64v.
6418          RS       3    FLOW      -1
6419          RC   0.050   0.016   0.050    2100  0.0034
6420          RX       0     0.5      20      49      51      80    99.5     100
6421          RY       3       1     0.5       0       0     0.5       1       3
              *

6422          KK   C64uS COMBINE
6423          KM    Combine hydrographs R64uS and P64uS.
6424          HC       2    4.91
              *

6425          KK    C64v COMBINE
6426          KM    Combine hydrographs C64uS, PT64u, and 64v.
6427          HC       3   26.15
              *

6428          KK  NUL64v COMBINE
6429          KM    Combine hydrographs C64v and NUL60v.
6430          HC       2   44.28
              *

6431          KK     68v   BASIN
6432          KM    Subbasin at NEC of Salt River and 7th Ave
6433          BA   0.218
6434          LG    0.19    0.25    4.60    0.42      33
6435          UC   1.046   0.851
6436          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6437          UA     100
              *

6438          KK  BD68uP RETRIEVE
6439          KM    Retrieve diverted pipe flow from D68uP.
6440          DR   D68uP
              *
1                                        HEC-1 INPUT                                          PAGE180

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6441          KK   P68uS   ROUTE
6442          KM    Route pipe flow from Central/I-17 to subbasin 68v.
6443          RK    3300  0.0073   0.015            CIRC    4.50
              *

6444          KK  BD68uS RETRIEVE
6445          KM    Retrieve diverted surface flow from D68uS.
6446          DR   D68uS
              *

6447          KK   R68uS   ROUTE
6448          KM    Route surface flow south from Subbasin 68u to 68v.
6449          RS       3    FLOW      -1
6450          RC   0.050   0.016   0.050    3300  0.0070
6451          RX       0     0.5      20      49      51      80    99.5     100
6452          RY       3       1     0.5       0       0     0.5       1       3
              *

6453          KK   C68uS COMBINE
6454          KM    Combine hydrographs R68uS and P68uS.
6455          HC       2    5.97
              *

6456          KK    C68v COMBINE
6457          KM    Combine hydrographs P68uS and 68v.
6458          HC       2    6.19
              *

6459          KK  NUL68v COMBINE
6460          KM    Combine hydrographs C68v and NUL64v.
6461          HC       2   45.56
              *

6462          KK     72v   BASIN
6463          KM    Subbasin at NEC of Salt River and 15th Ave
6464          BA   0.407
```

```
6465          LG    0.13    0.25    4.40    0.52      59
6466          UC   0.887   0.630
6467          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6468          UA     100
              *

6469          KK  BD72uP RETRIEVE
6470          KM    Retrieve diverted pipe flow from D72uP.
6471          DR   D72uP
              *

6472          KK  D72uP1  DIVERT
6473          KM    Divert 714 cfs into pipe (south) (281 cfs + 433 cfs).
6474          DT  D72uP2
6475          DI       0     714    1000
6476          DQ       0     281     281
              *
1                                          HEC-1 INPUT                                          PAGE181

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6477          KK  P72uS1  ROUTE
6478          KM    Route pipe flow from subbasin 72u to subbasin 72v.
6479          RK    5000  0.0030   0.015            CIRC    8.00
              *

6480          KK  B72uP2 RETRIEVE
6481          KM    Retrieve diverted pipe flow from D72uP2.
6482          DR  D72uP2
              *

6483          KK  P72uS2  ROUTE
6484          KM    Route pipe flow from subbasin 72u to subbasin 72v.
6485          RK    4500  0.0031   0.015            CIRC     6.8
              *

6486          KK  BD72uS RETRIEVE
6487          KM    Retrieve diverted flow from D72uS.
6488          DR   D72uS
              *

6489          KK   R72uS   ROUTE
6490          KM    Route surface flow south from Subbasin 72u to 72v.
6491          RS       5    FLOW      -1
6492          RC   0.050   0.016   0.050    4500  0.0023
6493          RX       0     0.5      20      49      51      80    99.5     100
6494          RY       3       1     0.5       0       0     0.5       1       3
              *

6495          KK   C72uS COMBINE
6496          KM    Combine hydrographs R72uS, P72uS1, and P72uS2.
6497          HC       3    8.06
              *

6498          KK    C72v COMBINE
6499          KM    Combine hydrographs C72uS and 72v.
6500          HC       2    8.47
              *

6501          KK  NUL72v COMBINE
6502          KM    Combine hydrographs C72v and NUL68v.
6503          HC       2   47.06
              *

6504          KK    76w   BASIN
6505          KM    Subbasin at NEC of Salt River and 19th Ave
6506          BA   0.334
6507          LG    0.10    0.26    3.17    1.09       2
6508          UC   1.044   0.696
6509          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6510          UA     100
              *
1                                          HEC-1 INPUT                                          PAGE182

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6511          KK  BD76vS RETRIEVE
6512          KM    Retrieve diverted surface flow from D76vS.
6513          DR   D76vS
              *

6514          KK   R76vS   ROUTE
6515          KM    Route surface flow south from Subbasin 76v to 76w.
6516          RS       4    FLOW      -1
```

```
6517          RC   0.050   0.016   0.050    3800  0.0107
6518          RX       0     0.5      20      49      51      80    99.5     100
6519          RY       3       1     0.5       0       0     0.5       1       3
              *

6520          KK  BD76vP RETRIEVE
6521          KM    Retrieve diverted pipe flow from D76vP.
6522          DR   D76vP
              *

6523          KK   P76vS   ROUTE
6524          KM    Route pipe flow from subbasin 76v to subbasin 76w.
6525          RK    4000  0.0041   0.015            CIRC    4.50
              *

6526          KK   C76vS COMBINE
6527          KM    Combine hydrographs R76vS and P76vS.
6528          HC       2    8.24
              *

6529          KK    C76w COMBINE
6530          KM    Combine hydrographs 76w and C76vS.
6531          HC       2    8.57
              *

6532          KK  NUL76w COMBINE
6533          KM    Combine hydrographs C76w and NUL72v.
6534          HC       2   56.10
              *

6535          KK     80w  BASIN
6536          KM    Subbasin at NEC of Salt River and 23rd Ave
6537          BA   0.360
6538          LG    0.12    0.27    3.43    0.95      60
6539          UC   0.768   0.583
6540          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6541          UA     100
              *

6542          KK  BD80vS RETRIEVE
6543          KM    Retrieve diverted surface flow from D80vS.
6544          DR   D80vS
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6545          KK   R80vS   ROUTE
6546          KM    Route surface flow south from Subbasin 80v to 80w.
6547          RS       3    FLOW      -1
6548          RC   0.050   0.016   0.050    3920  0.0061
6549          RX       0    0.75      30    73.5    76.5     120  149.25     150
6550          RY       3       1     0.5       0       0     0.5       1       3
              *

6551          KK    C80w COMBINE
6552          KM    Combine hydrographs R80vS and 80w.
6553          HC       2    8.59
              *

6554          KK  NUL80w COMBINE
6555          KM    Combine hydrographs C80w and NUL76w.
6556          HC       2   58.09
              *

6557          KK  BD84vS RETRIEVE
6558          KM    Retrieve diverted surface flow from D84vS.
6559          DR   D84vS
              *

6560          KK   R84vS   ROUTE
6561          KM    Route surface flow south from Subbasin 84v to 84w.
6562          RS       2    FLOW      -1
6563          RC   0.050   0.016   0.050    3290  0.0033
6564          RX       0     0.5      20      49      51      80    99.5     100
6565          RY       3       1     0.5       0       0     0.5       1       3
              *

6566          KK  BD84vP RETRIEVE
6567          KM    Retrieve diverted pipe flow from D84vP.
6568          DR   D84vP
              *

6569          KK  D84vP1  DIVERT
6570          KM    Divert flows into pipe (south).
```

```
6571          DT  D84vP2
6572          DI       0    1269    2000
6573          DQ       0    1017    1017
              *

6574          KK  P84vS1  ROUTE
6575          KM    Route pipe flow from subbasin 84v to subbasin 84w.
6576          RK    3100  0.0031   0.015            CIRC    6.50
              *

6577          KK  B84vP2 RETRIEVE
6578          KM    Retrieve diverted pipe flow from D84vP2.
6579          DR  D84vP2
              *
1                                        HEC-1 INPUT                                                    PAGE184

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6580          KK  P84vS2   ROUTE
6581          KM    Route pipe flow from subbasin 84v to subbasin 84w.
6582          RK    3100  0.0030   0.015            CIRC   11.0
              *

6583          KK   C84vS COMBINE
6584          KM    Combine hydrographs R84vS, P84vS1, and P84vS2.
6585          HC       3    9.76
              *

6586          KK     84w   BASIN
6587          KM    Subbasin at NEC of Salt River and 27th Ave
6588          BA   0.339
6589          LG    0.17    0.25    3.95    0.61      43
6590          UC   0.968   0.677
6591          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6592          UA     100
              *

6593          KK  BD80vP RETRIEVE
6594          KM    Retrieve diverted pipe flow from D80vP.
6595          DR   D80vP
              *

6596          KK   P80vS   ROUTE
6597          KM    Route pipe flow from subbasin 80v to subbasin 80w.
6598          RK    4600  0.0030   0.015            CIRC     6.5
              *

6599          KK    C84w COMBINE
6600          KM    Combine hydrographs 84w and C84vS.
6601          HC       3   10.10
              *

6602          KK  NUL84w COMBINE
6603          KM    Combine hydrographs C84w and NUL80w.
6604          HC       2   59.72
              *

6605          KK  NUL88w COMBINE
6606          KM    Combine hydrographs C88w and NUL84w.
6607          HC       2   61.86
              *

6608          KK     24s   BASIN
6609          KM    Subbasin at NEC of Grand Canal and 44th St
6610          BA   0.195
6611          LG    0.19    0.25    4.80    0.37      35
6612          UC   0.643   0.486
6613          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6614          UA     100
              *
1                                        HEC-1 INPUT                                                    PAGE185

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6615          KK    S24s STORAGE
6616          KM    Regional online retention basin, 5 ac-ft.
6617          RS       1    STOR       0
6618          SV       0     5.1      14
6619          SE       0       2       4
6620          SS       2     100     2.7     1.5
              *

6621          KK  B28qP2 RETRIEVE
6622          KM    Retrieve diverted pipe flow from D28qP2.
```

```
6623          DR  D28qP2
              *

6624          KK   P28qE   ROUTE
6625          KM    Route pipe flow from subbasin 28q to subbasin 24s.
6626          RK    1300  0.0031   0.015            CIRC     3.0
              *

6627          KK    C24s COMBINE
6628          KM    Combine hydrographs P28qE and S24s.
6629          HC       2    0.20
              *

6630          KK    D24s  DIVERT
6631          KM    Divert 249 cfs into pipe (south).
6632          DT   D24sP
6633          DI       0     100     249   10000
6634          DQ       0     100     249     249
              *

6635          KK   R24sS   ROUTE
6636          KM    Route surface flow south from Subbasin 24s to 24t.
6637          RS       2    FLOW      -1
6638          RC   0.050   0.016   0.050    5000  0.0030
6639          RX       0     0.5      20      49      51      80    99.5     100
6640          RY       3       1     0.5       0       0     0.5       1       3
              *

6641          KK  BD24sP RETRIEVE
6642          KM    Retrieve diverted pipe flow from D24sP.
6643          DR   D24sP
              *

6644          KK  D24sPS  DIVERT
6645          KM    Divert 32 cfs into pipe (east).
6646          DT  D24sPE
6647          DI       0     249     250
6648          DQ       0      32      32
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6649          KK   P24sS   ROUTE
6650          KM    Route pipe flow from 44th st/Grand Canal to subbasin 24t.
6651          RK    5000  0.0030   0.015            CIRC    6.50
              *

6652          KK   C24sS COMBINE
6653          KM    Combine hydrographs R24sS and P24sS.
6654          HC       2    0.20
              *

6655          KK     24t   BASIN
6656          KM   Subbasin at NEC of Salt River and SR143
6657          BA   0.260
6658          LG    0.10    0.25    3.48    0.87       6
6659          UC   0.680   0.322
6660          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6661          UA     100
              *

6662          KK    C24t COMBINE
6663          KM    Combine hydrographs 24t and C24sS.
6664          HC       2    0.46
              *

6665          KK   S24t STORAGE
6666          KM    Online Regional Detention Basin, 31 ac-ft.
6667          RS       1    STOR       0
6668          SV       0      13    30.6    53.6
6669          SE       0       4       8      12
6670          SQ       0      25      90    6594
              *

6671          KK     04s   BASIN
6672          KM    Subbasin at NEC of Washington and Center Pkwy
6673          BA   0.278
6674          LG    0.12    0.25    4.15    0.63      25
6675          UC   0.339   0.182
6676          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6677          UA     100
              *

6678          KK    S04s STORAGE
```

```
6679          KM    Online Detention Basin, 2 ac-ft.
6680          RS       1    STOR       0
6681          SV       0     0.5       2       6
6682          SE       0       4       8      12
6683          SL     0.5   0.785    0.62     0.5
6684          SS       8      60     2.7     1.5
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6685          KK   R04sS   ROUTE
6686          KM    Route surface flow south from Subbasin 04s to 08s.
6687          RS       1    FLOW      -1
6688          RC   0.050   0.016   0.050    1870  0.0064
6689          RX       0     0.5      20      49      51      80    99.5     100
6690          RY       3       1     0.5       0       0     0.5       1       3
              *

6691          KK     08q   BASIN
6692          KM    Subbasin at NEC of Center and Phoenix Zoo
6693          BA   0.438
6694          LG    0.10    0.25    3.95    0.64      41
6695          UC   0.553   0.341
6696          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6697          UA     100
              *

6698          KK   R08qS   ROUTE
6699          KM    Route surface flow south from Subbasin 08q to 08s.
6700          RS       2    FLOW      -1
6701          RC   0.050   0.016   0.050    3500  0.0224
6702          RX       0    0.75      30    73.5    76.5     120  149.25     150
6703          RY       3       1     0.5       0       0     0.5       1       3
              *

6704          KK     08s   BASIN
6705          KM    Subbasin at NEC of Loop 202 and Priest Dr
6706          BA   0.651
6707          LG    0.15    0.25    3.85    0.68      44
6708          UC   0.600   0.289
6709          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6710          UA     100
              *

6711          KK    C08s COMBINE
6712          KM    Combine hydrographs 08s and R08q, R04s.
6713          HC       3    1.37
              *

6714          KK   S08s STORAGE
6715          KM   Online Detention Regional Basin, 28 ac-ft.
6716          RS       1    STOR       0
6717          SV       0       1       3       6      12      20      28      38
6718          SE       0       2       4       6       8      10      12      14
6719          SL     0.5    3.14    0.62     0.5
6720          SS      12     200     2.7     1.5
              *

6721          KK    D08s  DIVERT
6722          KM    Divert 862 cfs into pipe (south).
6723          DT   D08sP
6724          DI       0     100     862   10000
6725          DQ       0     100     862     862
              *
1                                   HEC-1 INPUT                                                    PAGE188

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6726          KK   R08sW   ROUTE
6727          KM    Route surface flow west from Subbasin 08s to 16s.
6728          RS       3    FLOW      -1
6729          RC   0.050   0.016   0.050    2800  0.0031
6730          RX       0     0.5      20      49      51      80    99.5     100
6731          RY       3       1     0.5       0       0     0.5       1       3
              *

6732          KK     12q   BASIN
6733          KM    Subbasin at NEC of Van Buren and 56th St
6734          BA   0.399
6735          LG    0.14    0.25    4.10    0.60      10
6736          UC   0.497   0.329
6737          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6738          UA     100
```

```
*

KK   R12qS   ROUTE
KM    Route surface flow south from Subbasin 12q to 12s.
RS       2    FLOW      -1
RC   0.050   0.016   0.050    3500  0.0175
RX       0     0.5      20      49      51      80    99.5     100
RY       3       1     0.5       0       0     0.5       1       3
*

KK     12s   BASIN
KM    Subbasin at NEC of UPRR and Galvin Pkwy
BA   0.208
LG    0.12    0.25    4.00    0.65      72
UC   0.431   0.298
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK   S12s STORAGE
KM    Online Detention Basin, 10 ac-ft.
RS       1    STOR       0
SV       0     1.2       3       6      10      15
SE       0       2       4       6       8      10
SL     0.5   0.785    0.62     0.5
SS       8     150     2.7     1.5
*

KK    C12s COMBINE
KM    Combine hydrographs S12s and R12qs.
HC       2    0.61
*

KK   R12sW   ROUTE
KM    Route surface flow west from Subbasin 12s to 16s.
RS       2    FLOW      -1
RC   0.050   0.016   0.050    2500  0.0031
RX       0     0.5      20      49      51      80    99.5     100
RY       3       1     0.5       0       0     0.5       1       3
*
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK   C12sW COMBINE
KM    Combine hydrographs R12sW and P08sW.
HC       2    1.97
*

KK   D16s2  DIVERT
KM    Divert 979 cfs into pipe (south).
DT  D16sP2
DI       0     100     979   10000
DQ       0     100     979     979
*

KK     16o   BASIN
KM    Subbasin at NEC of Mcdowell and 54th St
BA   0.211
LG    0.10    0.25    4.15    0.63      78
UC   0.197   0.089
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK   R16oS   ROUTE
KM    Route surface flow south from Subbasin 16o to 16q.
RS       2    FLOW      -1
RC   0.050   0.016   0.050    5150  0.0252
RX       0     0.5      20      49      51      80    99.5     100
RY       3       1     0.5       0       0     0.5       1       3
*

KK     16q   BASIN
KM    Subbasin at NEC of Van Buren and 52nd St
BA   0.651
LG    0.13    0.25    3.95    0.67      21
UC   0.678   0.458
UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
UA     100
*

KK    C16q COMBINE
KM    Combine hydrographs 16q and R16oS.
HC       2    0.86
```

```
                *
6799            KK   S16q STORAGE
6800            KM    Online Regional Retention Basin, 35 ac-ft.
6801            RS       1    STOR       0
6802            SV       0     0.5       2       3       9      20      35      58
6803            SE       0       2       4       6      10      14      18      22
6804            SS      18     100     2.7     1.5
                *
1                                          HEC-1 INPUT                                                    PAGE190

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6805            KK    D16q  DIVERT
6806            KM    Divert 659 cfs into pipes (484 cfs to south, 175 cfs to west).
6807            DT   D16qP
6808            DI       0     100     659   10000
6809            DQ       0     100     659     659
                *

6810            KK   R16qS   ROUTE
6811            KM    Route surface flow south from Subbasin 16q to 16s.
6812            RS       2    FLOW      -1
6813            RC   0.050   0.016   0.050    3200  0.0194
6814            RX       0       1      40      98     102     160     199     200
6815            RY       3       1     0.5       0       0     0.5       1       3
                *

6816            KK     16s   BASIN
6817            KM    Subbasin at NEC of Loop 202 and Sky Harbor Blvd
6818            BA   0.420
6819            LG    0.16    0.23    4.25    0.52      59
6820            UC   0.484   0.238
6821            UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6822            UA     100
                *

6823            KK    C16s COMBINE
6824            KM    Combine flows of 16s, R16qS, and D16s2
6825            HC       3    3.26
                *

6826            KK    S16s STORAGE
6827            KM    Online Regional Retention Basin, 19 ac-ft.
6828            RS       1    STOR       0
6829            SV       0     2.4       7    12.7    19.2    26.5
6830            SE       0       2       4       6       8      10
6831            SS       8     300     2.7     1.5
                *

6832            KK  BD16qP RETRIEVE
6833            KM    Retrieve diverted pipe flow from D16qP.
6834            DR   D16qP
                *

6835            KK  D16qPS  DIVERT
6836            KM    Divert 659 cfs into pipes (484 cfs to south 175 cfs to west).
6837            KM    Two pipes to west (82 cfs and 93 cfs).
6838            DT  D16qPW
6839            DI       0     659    1000
6840            DQ       0     175     175
                *
1                                          HEC-1 INPUT                                                    PAGE191

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6841            KK   P16qS   ROUTE
6842            KM    Route pipe flow from subbasin 16q to subbasin 16s.
6843            RK    3400  0.0114   0.015            CIRC    6.50
                *

6844            KK   CC16s COMBINE
6845            KM    Combine flows of S16s and P16qS.
6846            HC       2    3.26
                *

6847            KK    D16s  DIVERT
6848            KM    Divert 709 cfs into pipe (west).
6849            DT   D16sP
6850            DI       0     100     709   10000
6851            DQ       0     100     709     709
                *

6852            KK   R16sS   ROUTE
```

```
6853          KM    Route surface flow south from Subbasin 16s to 20t.
6854          RS       2    FLOW      -1
6855          RC   0.050   0.016   0.050    1800  0.0044
6856          RX       0       1      40      98     102     160     199     200
6857          RY       3       1     0.5       0       0     0.5       1       3
              *

6858          KK  BD16sP RETRIEVE
6859          KM    Retrieve diverted pipe flow from D16sP.
6860          DR   D16sP
              *

6861          KK   P16sS   ROUTE
6862          KM    Route pipe flow from 52nd st/SPRR to subbasin 20t.
6863          RK    1500  0.0153   0.015            CIRC    8.00
              *

6864          KK   C16sS COMBINE
6865          KM    Combine hydrographs R16sS and P16sS.
6866          HC       2    3.26
              *

6867          KK     20p   BASIN
6868          KM    Subbasin at NEC of Loop 202 and SR143
6869          BA   0.532
6870          LG    0.54    0.24    4.40    0.46      26
6871          UC   0.729   0.429
6872          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6873          UA     100
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6874          KK   S20p1 STORAGE
6875          KM    Online Retention Basin, 2 ac-ft.
6876          RS       1    STOR       0
6877          SV       0     0.1     0.6       2       4
6878          SE       0       2       4       6       8
6879          SS       6     100     2.7     1.5
              *

6880          KK  B16qPW RETRIEVE
6881          KM    Retrieve diverted pipe flow from D16qPW.
6882          DR  D16qPW
              *

6883          KK   P16qW   ROUTE
6884          KM    Route pipe flow from subbasin 16q to subbasin 20p.
6885          RK    5200  0.0127   0.015            CIRC     5.0
              *

6886          KK    C20p COMBINE
6887          KM    Combine hydrographs P16qW and S20p1.
6888          HC       2    1.39
              *

6889          KK   S20p2 STORAGE
6890          KM    Online Regional Detention Basin, 43 ac-ft.
6891          RS       1    STOR       0
6892          SV       0     1.4     4.1     9.6    20.7    42.7    79.4
6893          SE       0       2       4       6       8      10      12
6894          SL     1.5   7.065    0.62     0.5
6895          SS      10     200     2.7     1.5
              *

6896          KK  OCCC48  INFLOW
6897          KM   Inflow from OCCC area at 48th Street and McDowell Rd.
6898          KM   Maximum flow 4607 cfs
6899          IN      60
6900          BA     3.0
6901          QI       0       9      43      85     170     298     425     553     680     765
6902          QI     947     977    1069    4607    2092    1095     882     765     595     425
6903          QI     255     170      85       4     0.1
              *

6904          KK  BD24oP RETRIEVE
6905          KM    Retrieve diverted pipe flow from D24oP.
6906          DR   D24oP
              *

6907          KK   P24oS   ROUTE
6908          KM    Route pipe flow from subbasin 24o to subbasin 20p.
6909          RK    3000  0.0030   0.015            CIRC    3.50
              *
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6910          KK   C24oS COMBINE
6911          KM    Combine hydrographs OCCC48 and P24oS.
6912          HC       2    3.00
              *

6913          KK   ROCCC   ROUTE
6914          KM    Route surface flow south from OCCC48 to 20p.
6915          RS       2    FLOW      -1
6916          RC   0.013   0.013   0.013    3000  0.0038
6917          RX       0       1       2      10      19      28      29      30
6918          RY      20      20       0       0       0       0      20      20
              *

6919          KK   CC20p COMBINE
6920          KM    Combine hydrographs S20p2 and ROCCC.
6921          HC       2    4.39
              *

6922          KK   R20pS   ROUTE
6923          KM    Route surface flow south from Subbasin 20p to 20q.
6924          RS       2    FLOW      -1
6925          RC   0.013   0.013   0.013    3000  0.0020
6926          RX       0       1       2      10      19      28      29      30
6927          RY      20      20       0       0       0       0      20      20
              *

6928          KK     20q   BASIN
6929          KM    Subbasin at NEC of Van Buren and SR143
6930          BA   0.276
6931          LG    0.25    0.22    4.45    0.40      11
6932          UC   0.691   0.410
6933          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6934          UA     100
              *

6935          KK  B28pP2 RETRIEVE
6936          KM    Retrieve diverted pipe flow from D28pP2.
6937          DR  D28pP2
              *

6938          KK   P28pE   ROUTE
6939          KM    Route pipe flow from subbasin 28p to subbasin 20q.
6940          RK    6000  0.0030   0.015            CIRC     4.0
              *

6941          KK    C20q COMBINE
6942          KM    Combine hydrographs 20q and R20pS.
6943          HC       3    4.67
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

6944          KK   R20qS   ROUTE
6945          KM    Route surface flow south from Subbasin 20q to 20s.
6946          RS       2    FLOW      -1
6947          RC   0.013   0.013   0.013    3200  0.0020
6948          RX       0       1       2      10      19      28      29      30
6949          RY      20      20       0       0       0       0      20      20
              *

6950          KK     20s   BASIN
6951          KM   Subbasin at NEC of Grand Canal and SR143
6952          BA   0.484
6953          LG    0.16    0.24    4.55    0.44      52
6954          UC   0.492   0.213
6955          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6956          UA     100
              *

6957          KK    S20s STORAGE
6958          KM    Online Retention Basin, 3 ac-ft.
6959          RS       1    STOR       0
6960          SV       0     0.9       3       8
6961          SE       0       2       4       7
6962          SS       4      60     2.7     1.5
              *

6963          KK    C20s COMBINE
6964          KM    Combine hydrographs S20s and R20qS.
```

```
6965          HC       2    5.15
              *

6966          KK  B24sPE RETRIEVE
6967          KM    Retrieve diverted pipe flow from D24sPE.
6968          DR  D24sPE
              *

6969          KK   P24sE   ROUTE
6970          KM    Route pipe flow from subbasin 24s to subbasin 20s.
6971          RK    2700  0.0031   0.015            CIRC     3.0
              *

6972          KK   CC20s COMBINE
6973          KM    Combine hydrographs C20s and P24sE.
6974          HC       2    5.35
              *

6975          KK   R20sS   ROUTE
6976          KM    Route surface flow south from Subbasin 20s to 20t.
6977          RS       2    FLOW      -1
6978          RC   0.013   0.013   0.013    3200  0.0038
6979          RX       0       1       2      10      19      28      29      30
6980          RY      20      20       0       0       0       0      20      20
              *
1                                          HEC-1 INPUT                                                    PAGE195

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


6981          KK     20t   BASIN
6982          KM    Subbasin at NEC of Salt River and SR143
6983          BA   0.265
6984          LG    0.13    0.23    2.54    1.53       3
6985          UC   1.155   0.639
6986          UA       0     5.0    16.0    30.0    65.0    77.0    84.0    90.0    94.0    97.0
6987          UA     100
              *

6988          KK    S20t STORAGE
6989          KM    Online Retention Basin, 156 ac-ft.
6990          RS       1    STOR       0
6991          SV       0    20.7    50.1    88.4   156.1   249.1
6992          SE       0       2       4       6       8      10
6993          SS       8     600     2.7     1.5
              *

6994          KK    C20t COMBINE
6995          KM    Combine flows of 20t, C16sS, and 20sS
6996          HC       3    8.01
              *

6997          KK  NUL20t COMBINE
6998          KM    Combine hydrographs C20t and S24t.
6999          HC       2    8.27
              *
7000          ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   78         64c
               .
               .
   87          .-------->   D64cS
   85       D64cW
               V
               V
   90       R64cW
               .
               .
   96          .         68c
               .           .
               .           .
  103        C68c............
               .
               .
  108          .-------->   D68cP
  106        D68c
               .
               .
  113          .-------->   D68cS
  111       D68cW
               V
               V
  116       R68cW
               .
               .
  122          .         72c
               .           .
               .           .
  129        C72c............
               .
               .
  134          .-------->   D72cP
  132        D72c
               .
               .
  139          .-------->   D72cS
  137       D72cW
               V
               V
  142       R72cW
               .
               .
  148          .         76C
               .           .
               .           .
  155        C76c............
               .
               .
  160          .-------->    D76c
  158       D76cP
               .
               .
  163          .         84c
               .           .
               .           .
  172          .           .-------->   D84cS
  170          .       D84cE
               .           V
               .           V
  175          .       R84cE
               .           .
               .           .
  181          .           .         80c
               .           .           V
               .           .           V
  188          .           .        S80c
               .           .           .
               .           .           .
  194          .        C80c............
               .           .
               .           .
  199          .           .-------->    D80c
  197          .       D80cP
               .           .
               .           .
  202       C76cP............
               V
```

```
                V
205        P76cS
                .
                .
210             .-------> D80eP1
208       D76eP1
                .
                .
213             .         56e
                .           .
                .           .
222             .           .-------> D56eS
220             .       D56eW
                .           V
                .           V
225             .       R56eW
                .           .
                .           .
231             .           .         60e
                .           .           .
                .           .           .
238             .        C60e............
                .           .
                .           .
243             .           .-------> D60eP
241             .        D60e
                .           .
                .           .
248             .           .-------> D60eS
246             .       D60eW
                .           V
                .           V
251             .       R60eW
                .           .
                .           .
257             .           .         64e
                .           .           .
                .           .           .
266             .           .           .          .<-------  D64cS
264             .           .           .      B64cS
                .           .           .          V
                .           .           .          V
267             .           .           .      R64cS
                .           .           .          .
                .           .           .          .
273             .        C64e......................
                .           .
                .           .
278             .           .-------> D64eS
276             .       D64eW
                .           V
                .           V
281             .       R64eW
                .           .
                .           .
287             .           .         68e
                .           .           .
                .           .           .
296             .           .           .          .<-------  D68cP
294             .           .           .      B68cP
                .           .           .          V
                .           .           .          V
297             .           .           .      P68cS
                .           .           .          .
                .           .           .          .
302             .           .           .          .          .<-------  D68cS
300             .           .           .          .      B68cS
                .           .           .          .          V
                .           .           .          .          V
303             .           .           .          .      R68cS
                .           .           .          .          .
                .           .           .          .          .
309             .           .           .      C68cS............
                .           .           .          .
                .           .           .          .
312             .        C68e......................
                .           .
                .           .
317             .           .-------> D68eP
315             .        D68e
                .           .
                .           .
322             .           .-------> D68eS
320             .       D68eW
                .           V
                .           V
```

```
325          .       R68eW
             .           .
             .           .
331          .           .         72e
             .           .           .
             .           .           .
340          .           .           .           .<-------   D72cP
338          .           .           .       B72cP
             .           .           .           V
             .           .           .           V
341          .           .           .       P72cS
             .           .           .           .
             .           .           .           .
346          .           .           .           .           .<-------   D72cS
344          .           .           .           .       B72cS
             .           .           .           .           V
             .           .           .           .           V
347          .           .           .           .       R72cS
             .           .           .           .           .
             .           .           .           .           .
353          .           .           .       C72cS............
             .           .           .           .
             .           .           .           .
356          .        C72e........................
             .           .
             .           .
361          .           .------->   D72eP                     .
359          .        D72e
             .           .
             .           .
366          .           .------->   D72eS
364          .       D72eW
             .           V
             .           V
369          .       R72eW
             .           .
             .           .
375          .           .         76e
             .           .           .
             .           .           .
384          .           .           .           .<-------    D76c
382          .           .           .        B76c
             .           .           .           V
             .           .           .           V
385          .           .           .       R76cS
             .           .           .           .
             .           .           .           .
391       C76e...................................
             .
             .
396          .------->    D76e
394       D76eP
             .
             .
401          .           .<-------   D84cS
399          .      BD84cS
             .           V
             .           V
402          .       R84cS
             .           .
             .           .
408          .           .         84e
             .           .           .
             .           .           .
415          .        C84e............
             .           .
             .           .
420          .           .------->   D84eS
418          .       D84eE
             .           V
             .           V
423          .       R84eE
             .           .
             .           .
429          .           .         80e
             .           .           .
             .           .           .
438          .           .           .           .<-------  D80eP1
436          .           .           .      B80eP1
             .           .           .           .
             .           .           .           .
441          .           .           .           .           .<-------    D80c
439          .           .           .           .       BD80c
             .           .           .           .           V
             .           .           .           .           V
442          .           .           .           .       R80cS
```

```
                .           .           .           .           .
                .           .           .           .           .
448             .        C80e.................................
                .           .
                .           .
453             .           .-------->    D80e
451             .       D80eP
                .           .
                .           .
456         C76eP............
                V
                V
459         P76eS
                .
                .
464             .-------->  D80gP1
462        D76gP1
                .
                .
467             .         76g
                .           .
                .           .
476             .           .           .<-------    D76e
474             .           .       BD76e
                .           .           V
                .           .           V
477             .           .       R76eS
                .           .           .
                .           .           .
483          C76g........................
                .
                .
488             .-------->  D76gP2
486         D76g1
                .
                .
493             .-------->   D76gP
491          D76g
                .
                .
498             .-------->   D76gS
496         D76gE
                V
                V
501         R76gE
                .
                .
509             .           .<-------  D76gP2
507             .      B76gP2
                .           .
                .           .
510         C76gE............
                .
                .
513             .         54g
                .           .
                .           .
522             .           .-------->   D54gS
520             .       D54gW
                .           V
                .           V
525             .       R54gW
                .           .
                .           .
531             .           .         56g
                .           .           .
                .           .           .
540             .           .           .           .<-------   D56eS
538             .           .           .       B56eS
                .           .           .           V
                .           .           .           V
541             .           .           .       R56eS
                .           .           .           .
                .           .           .           .
547             .        C56g........................
                .           .
                .           .
552             .           .-------->   D56gP
550             .        D56g
                .           .
                .           .
557             .           .-------->   D56gS
555             .       D56gW
                .           V
                .           V
560             .       R56gW
```

```
                .           .
                .           .
566             .           .         60g
                .           .           .
                .           .           .
575             .           .           .           .<-------   D60eP
573             .           .           .       B60eP
                .           .           .           V
                .           .           .           V
576             .           .           .       P60eS
                .           .           .           .
                .           .           .           .
581             .           .           .           .           .<-------   D60eS
579             .           .           .           .       B60eS
                .           .           .           .           V
                .           .           .           .           V
582             .           .           .           .       R60eS
                .           .           .           .           .
                .           .           .           .           .
588             .           .           .       C60eS............
                .           .           .           .
                .           .           .           .
591             .        C60g........................
                .           .
                .           .
596             .           .-------->  D60gP
594             .        D60g
                .           .
                .           .
601             .           .-------->  D60gS
599             .       D60gW
                .           V
                .           V
604             .       R60gW
                .           .
                .           .
610             .           .         64g
                .           .           .
                .           .           .
619             .           .           .           .<-------   D64eS
617             .           .           .       B64eS
                .           .           .           V
                .           .           .           V
620             .           .           .       R64eS
                .           .           .           .
                .           .           .           .
626             .        C64g........................
                .           .
                .           .
631             .           .-------->  D64gP
629             .        D64g
                .           .
                .           .
636             .           .-------->  D64gS
634             .       D64gW
                .           V
                .           V
639             .       R64gW
                .           .
                .           .
645             .           .         68g
                .           .           .
                .           .           .
654             .           .           .           .<-------   D68eP
652             .           .           .       B68eP
                .           .           .           V
                .           .           .           V
655             .           .           .       P68eS
                .           .           .           .
                .           .           .           .
660             .           .           .           .           .<-------   D68eS
658             .           .           .           .       B68eS
                .           .           .           .           V
                .           .           .           .           V
661             .           .           .           .       R68eS
                .           .           .           .           .
                .           .           .           .           .
667             .           .           .       C68eS............
                .           .           .           .
                .           .           .           .
670             .        C68g........................
                .           .
                .           .
675             .           .-------->  D68gP
673             .        D68g
                .           .
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```
680          .           .
             .           .-------->   D68gS
678          .       D68gW
             .           V
             .           V
683          .       R68gW
             .           .
             .           .
689          .           .        72g
             .           .           .
             .           .           .
698          .           .           .           .<-------   D72eP
696          .           .           .       B72eP
             .           .           .           V
             .           .           .           V
699          .           .           .       P72eS
             .           .           .           .
             .           .           .           .
704          .           .           .           .           .<-------   D72eS
702          .           .           .           .       B72eS
             .           .           .           .           V
             .           .           .           .           V
705          .           .           .           .       R72eS
             .           .           .           .           .
             .           .           .           .           .
711          .           .           .       C72eS............
             .           .           .           .
             .           .           .           .
714          .        C72g........................
             .           .
             .           .
717      CC72g............
             .
             .
722          .-------->   D72gP
720       D72g
             V
             V
725      R72gS
             .
             .
733          .           .<-------   D72gP
731          .      BD72gP
             .           V
             .           V
734          .       P72gS
             .           .
             .           .
737      C72gS............
             .
             .
740          .         84g
             .           .
             .           .
749          .           .           .<-------   D84eS
747          .           .       B84eS
             .           .           V
             .           .           V
750          .           .       R84eS
             .           .           .
             .           .           .
756          .        C84g............
             .           .
             .           .
761          .           .-------->   D84gS
759          .       D84gE
             .           V
             .           V
764          .       R84gE
             .           .
             .           .
770          .           .         80g
             .           .           .
             .           .           .
779          .           .           .           .<-------    D80e
777          .           .           .       BD80e
             .           .           .           V
             .           .           .           V
780          .           .           .       R80eS
             .           .           .           .
             .           .           .           .
788          .           .           .           .           .<-------  D80gP1
786          .           .           .           .      B80gP1
             .           .           .           .           .
             .           .           .           .           .
789          .        C80g.................................
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                .           .
                .           .
794             .           .-------->    D80g
792             .       D80gP
                .           .
                .           .
799             .           .           .<-------   D76gP
797             .           .       B76gP
                .           .           .
                .           .           .
800             .       C76gP............
                .           V
                .           V
803             .       P76gS
                .           .
                .           .
808             .           .-------->  D80iP1
806             .      D76iP1
                .           .
                .           .
811             .           .         76i
                .           .           .
                .           .           .
820             .           .           .           .<-------   D76gS
818             .           .           .      BD76gS
                .           .           .           V
                .           .           .           V
821             .           .           .       R76gS
                .           .           .           .
                .           .           .           .
827             .        C76i........................
                .           .
                .           .
832             .           .-------->   D76i1
830             .      D76iP2
                .           .
                .           .
835             .           .         72i
                .           .           .
                .           .           .
842        C72i........................
                .
                .
848             .-------->    D72i
845       D72iP
                .
                .
854             .-------->  D72iP1
851      D72iP2
             V
             V
857       P72iW
                .
                .
862             .           .<-------   D76i1
860             .      BD76i1
                .           .
                .           .
863       CC76i............
                .
                .
868             .-------->    D76i
866       D76iP
                .
                .
873             .           .<-------   D84gS
871             .      BD84gS
                .           V
                .           V
874             .       R84gS
                .           .
                .           .
880             .           .         84i
                .           .           .
                .           .           .
887             .        C84i............
                .           V
                .           V
890             .        S84i
                .           .
                .           .
898             .           .-------->   D84iS
896             .       D84iE
                .           V
                .           V
901             .       R84iE
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                .           .
                .           .
907             .           .         80i
                .           .           .
                .           .           .
916             .           .           .          .<-------    D80g
914             .           .           .       BD80g
                .           .           .          V
                .           .           .          V
917             .           .           .       S80g
                .           .           .          V
                .           .           .          V
924             .           .           .       R80gS
                .           .           .           .
                .           .           .           .
932             .           .           .           .           .<-------  D80iP1
930             .           .           .           .      B80iP1
                .           .           .           .           .
                .           .           .           .           .
933             .        C80i.................................
                .           .
                .           .
938             .           .------->    D80i
936             .       D80iP
                .           .
                .           .
941       C76iP............
              V
              V
944       P76iS
                .
                .
949             .------->  D80kP1
947     D76kP1
                .
                .
952             .         76k
                .           .
                .           .
961             .           .           .<-------    D76i
959             .           .       BD76i
                .           .           .
                .           .           .
964             .           .           .------->   D76iE
962             .           .       D76iS
                .           .           V
                .           .           V
967             .           .       R76iS
                .           .           .
                .           .           .
973       C76k......................
                .
                .
979             .------->   D76k1
976     D76kP2
                .
                .
982             .         54i
                .           .
                .           .
991             .           .           .<-------   D54gS
989             .           .      BD54gS
                .           .           V
                .           .           V
992             .           .       R54gS
                .           .           .
                .           .           .
998             .        C54i............
                .           .
                .           .
1003            .           .------->   D54iP
1001            .        D54i
                .           .
                .           .
1008            .           .------->   D54iS
1006            .       D54iW
                .          V
                .          V
1011            .       R54iW
                .           .
                .           .
017             .           .         56i
                .           .           .
                .           .           .
1026            .           .           .          .<-------   D56gP
1024            .           .           .      BD56gP
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                .          .          .          V
                .          .          .          V
1027            .          .          .       P56gS
                .          .          .          .
                .          .          .          .
1032            .          .          .          .          .<-------   D56gS
1030            .          .          .          .      BD56gS
                .          .          .          .          V
                .          .          .          .          V
1033            .          .          .          .       R56gS
                .          .          .          .          .
                .          .          .          .          .
1039            .          .          .       C56gS............
                .          .          .          .
                .          .          .          .
1042            .       C56i........................
                .          .
                .          .
1047            .          .-------->   D56iP
1045            .       D56i
                .          .
                .          .
1052            .          .-------->   D56iS
1050            .      D56iW
                .          V
                .          V
1055            .      R56iW
                .          .
                .          .
1061            .          .        60i
                .          .          .
                .          .          .
1070            .          .          .          .<-------   D60gP
1068            .          .          .      BD60gP
                .          .          .          V
                .          .          .          V
1071            .          .          .       P60gS
                .          .          .          .
                .          .          .          .
1076            .          .          .          .          .<-------   D60gS
1074            .          .          .          .      BD60gS
                .          .          .          .          V
                .          .          .          .          V
1077            .          .          .          .       R60gS
                .          .          .          .          .
                .          .          .          .          .
1083            .          .          .       C60gS............
                .          .          .          .
                .          .          .          .
1086            .       C60i........................
                .          .
                .          .
1092            .          .-------->   D60iP
1089            .       D60i
                .          .
                .          .
1097            .          .-------->   D60iS
1095            .      D60iW
                .          V
                .          V
1100            .      R60iW
                .          .
                .          .
1108            .          .          .<-------   D64gP
1106            .          .      BD64gP
                .          .          V
                .          .          V
1109            .          .       P64gS
                .          .          .
                .          .          .
1114            .          .          .          .<-------   D64gS
1112            .          .          .      BD64gS
                .          .          .          V
                .          .          .          V
1115            .          .          .       R64gS
                .          .          .          .
                .          .          .          .
1121            .          .       C64gS............
                .          .          .
                .          .          .
1124            .          .          .         64i
                .          .          .          .
                .          .          .          .
1131            .       C64i........................
                .          .
                .          .
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1136          .          .-------->   D64iP
1134          .       D64i
              .          .
              .          .
1141          .          .-------->   D64iS
1139          .      D64iW
              .          V
              .          V
1144          .      R64iW
              .          .
              .          .
1150          .          .         68i
              .          .           .
              .          .           .
1159          .          .           .           .<-------   D68gP
1157          .          .           .      BD68gP
              .          .           .           V
              .          .           .           V
1160          .          .           .       P68gS
              .          .           .           .
              .          .           .           .
1165          .          .           .           .           .<-------   D68gS
1163          .          .           .           .      BD68gS
              .          .           .           .           V
              .          .           .           .           V
1166          .          .           .           .       R68gS
              .          .           .           .           .
              .          .           .           .           .
1172          .          .           .       C68gS............
              .          .           .           .
              .          .           .           .
1175          .       C68i........................
              .          .
              .          .
1180          .          .           .<-------    D72i
1178          .          .       BD72i
              .          .           .
              .          .           .
1183          .          .           .           .<-------   D76iE
1181          .          .           .       B76iE
              .          .           .           V
              .          .           .           V
1184          .          .           .       R76iE
              .          .           .           .
              .          .           .           .
1190          .          .       CC72i............
              .          .           .
              .          .           .
1195          .          .           .-------->   D72iS
1193          .          .       D72iE
              .          .           V
              .          .           V
1198          .          .       R72iE
              .          .           .
              .          .           .
1204          .      CC68i............
              .          .
              .          .
1209          .          .-------->   D68iP
1207          .       D68i
              .          V
              .          V
1212          .      R68iS
              .          .
              .          .
1220          .          .           .<-------   D68iP
1218          .          .      BD68iP
              .          .           V
              .          .           V
1221          .          .       P68iS
              .          .           .
              .          .           .
1224          .      C68iS............
              .          .
              .          .
1227          .          .         36i
              .          .           .
              .          .           .
1236          .          .           .-------->   D36iP
1234          .          .        D36i
              .          .           .
              .          .           .
1241          .          .           .-------->   D36iS
1239          .          .       D36iW
              .          .           V
              .          .           V
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1244          .          .        R36iW
              .          .           .
              .          .           .
1250          .          .           .         40i
              .          .           .           V
              .          .           .           V
1257          .          .           .        S40i
              .          .           .           .
              .          .           .           .
1263          .          .        C40i............
              .          .           .
              .          .           .
1268          .          .           .-------->   D40iS
1266          .          .        D40iW
              .          .           V
              .          .           V
1271          .          .        R40iW
              .          .           .
              .          .           .
1277          .          .           .         44i
              .          .           .           .
              .          .           .           .
1284          .          .           .           .         42i
              .          .           .           .           V
              .          .           .           .           V
1291          .          .           .           .       R42iW
              .          .           .           .           .
              .          .           .           .           .
1297          .          .        C44i........................
              .          .           .
              .          .           .
1302          .          .           .-------->   D44iP
1300          .          .        D44i
              .          .           .
              .          .           .
1307          .          .           .-------->   D44iS
1305          .          .        D44iW
              .          .           V
              .          .           V
1310          .          .        R44iW
              .          .           .
              .          .           .
1316          .          .           .         48i
              .          .           .           .
              .          .           .           .
1323          .          .        C48i............
              .          .           .
              .          .           .
1328          .          .           .-------->   D48iP
1326          .          .        D48i
              .          .           .
              .          .           .
1333          .          .           .-------->   D48iS
1331          .          .        D48iW
              .          .           V
              .          .           V
1336          .          .        R48iW
              .          .           .
              .          .           .
1344          .          .           .           .<-------   D48iP
1342          .          .           .      BD48iP
              .          .           .           V
              .          .           .           V
1345          .          .           .       P48iW
              .          .           .           .
              .          .           .           .
1348          .          .        C48iW...........
              .          .           .
              .          .           .
1351          .          .           .         52g
              .          .           .           V
              .          .           .           V
1358          .          .           .       R52gS
              .          .           .           .
              .          .           .           .
1364          .          .           .           .         52i
              .          .           .           .           .
              .          .           .           .           .
1371          .          .        C52i........................
              .          .           .
              .          .           .
1377          .          .           .-------->   DB52i
1374          .          .        E52i
              .          .           .
              .          .           .
1382          .          .           .           .<-------   DB52i
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1380          .           .           .      BDB52i
              .           .           .          V
              .           .           .          V
1383          .           .           .       S52i
              .           .           .           .
              .           .           .           .
1389          .           .       CC52i............
              .           .           .
              .           .           .
1394          .           .           .-------->   D52iP
1392          .           .        D52i
              .           .           V
              .           .           V
1397          .           .       R52iS
              .           .           .
              .           .           .
1405          .           .           .           .<--------   D52iP
1403          .           .           .      BD52iP
              .           .           .          V
              .           .           .          V
1406          .           .           .       P52iS
              .           .           .           .
              .           .           .           .
1409          .           .       C52iS............
              .           .           .
              .           .           .
1412          .           .           .         24k
              .           .           .           .
              .           .           .           .
1421          .           .           .           .-------->   D24kS
1419          .           .           .       D24kW
              .           .           .           V
              .           .           .           V
1424          .           .           .       R24kW
              .           .           .           .
              .           .           .           .
1430          .           .           .           .       ARC40
              .           .           .           .           V
              .           .           .           .           V
1438          .           .           .           .      PARC40
              .           .           .           .           .
              .           .           .           .           .
1441          .           .           .           .           .         28k
              .           .           .           .           .           .
              .           .           .           .           .           .
1448          .           .           .       C28k.......................
              .           .           .           .
              .           .           .           .
1453          .           .           .           .-------->   D28kP
1451          .           .           .       D28k
              .           .           .           .
              .           .           .           .
1458          .           .           .           .-------->   D28kS
1456          .           .           .       D28kW
              .           .           .           V
              .           .           .           V
1461          .           .           .       R28kW
              .           .           .           .
              .           .           .           .
1467          .           .           .           .         32k
              .           .           .           .           .
              .           .           .           .           .
1474          .           .           .       C32k............
              .           .           .           .
              .           .           .           .
1479          .           .           .           .-------->   D32kP
1477          .           .           .       D32k
              .           .           .           .
              .           .           .           .
1484          .           .           .           .-------->   D32kS
1482          .           .           .       D32kW
              .           .           .           V
              .           .           .           V
1487          .           .           .       R32kW
              .           .           .           .
              .           .           .           .
1493          .           .           .           .         36k
              .           .           .           .           .
              .           .           .           .           .
1502          .           .           .           .           .           .<--------   D36iP
1500          .           .           .           .           .      BD36iP
              .           .           .           .           .           V
              .           .           .           .           .           V
1503          .           .           .           .           .       P36iS
              .           .           .           .           .           .
              .           .           .           .           .           .
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1508                                                                  .<-------   D36iS
1506                                                            BD36iS
                                                                     V
                                                                     V
1509                                                             R36iS
                                                                     .
                                                                     .
1515                                                       C36iS............
                                                                     .
                                                                     .
1518                                          C36k......................
                                                 .
                                                 .
1523                                             .------->   D36kP
1521                                          D36k
                                                 .
                                                 .
1528                                             .------->   D36kS
1526                                         D36kW
                                                 V
                                                 V
1531                                         R36kW
                                                 .
                                                 .
1539                                                 .<-------   D40iS
1537                                             .      BD40iS
                                                 .          V
                                                 .          V
1540                                             .       R40iS
                                                 .          .
                                                 .          .
1546                                             .          .         40k
                                                 .          .          .
                                                 .          .          .
1553                                          C40k......................
                                                 .
                                                 .
1558                                             .------->   D40kP
1556                                          D40k
                                                 .
                                                 .
1563                                             .------->   D40kS
1561                                         D40kW
                                                 V
                                                 V
1566                                         R40kW
                                                 .
                                                 .
1572                                             .         44k
                                                 .          .
                                                 .          .
1581                                             .          .          .<-------   D44iP
1579                                             .          .      BD44iP
                                                 .          .          V
                                                 .          .          V
1582                                             .          .       P44iS
                                                 .          .          .
                                                 .          .          .
1587                                             .          .          .          .<-------   D44iS
1585                                             .          .          .      BD44iS
                                                 .          .          .          V
                                                 .          .          .          V
1588                                             .          .          .       R44iS
                                                 .          .          .          .
                                                 .          .          .          .
1594                                             .          .       C44iS............
                                                 .          .          .
                                                 .          .          .
1597                                          C44k......................
                                                 .
                                                 .
1602                                             .------->   D44kP
1600                                          D44k
                                                 .
                                                 .
1607                                             .------->   D44kS
1605                                         D44kW
                                                 V
                                                 V
1610                                         R44kW
                                                 .
                                                 .
1616                                             .         48k
                                                 .          V
                                                 .          V
1623                                             .        S48k
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                .         .         .         .         .
                .         .         .         .         .
1631            .         .         .         .         .         .<-------   D48iS
1629            .         .         .         .         .     BD48iS
                .         .         .         .         .         V
                .         .         .         .         .         V
1632            .         .         .         .         .      R48iS
                .         .         .         .         .         .
                .         .         .         .         .         .
1638            .         .         .       C48k.......................
                .         .         .         .
                .         .         .         .
1643            .         .         .         .-------->   D48kS
1641            .         .         .      D48kW
                .         .         .         V
                .         .         .         V
1646            .         .         .      R48kW
                .         .         .         .
                .         .         .         .
1652            .         .         .         .         52k
                .         .         .         .           .
                .         .         .         .           .
1659            .         .       C52k........................
                .         .         .
                .         .         .
1664            .         .         .-------->   D52kP
1662            .         .       D52k
                .         .         .
                .         .         .
1669            .         .         .-------->   D52kS
1667            .         .      D52kW
                .         .         V
                .         .         V
1672            .         .      R52kW
                .         .         .
                .         .         .
1680            .         .         .         .<-------   D54iP
1678            .         .         .     BD54iP
                .         .         .         V
                .         .         .         V
1681            .         .         .      P54iS
                .         .         .         .
                .         .         .         .
1686            .         .         .         .         .<-------   D54iS
1684            .         .         .         .     BD54iS
                .         .         .         .         V
                .         .         .         .         V
1687            .         .         .         .      R54iS
                .         .         .         .         .
                .         .         .         .         .
1693            .         .         .      C54iS............
                .         .         .         .
                .         .         .         .
1696            .         .         .         .         54k
                .         .         .         .           .
                .         .         .         .           .
1703            .         .       C54k........................
                .         .         .
                .         .         .
1708            .         .         .-------->   D54kP
1706            .         .       D54k
                .         .         .
                .         .         .
1713            .         .         .-------->   D54kS
1711            .         .      D54kW
                .         .         V
                .         .         V
1716            .         .      R54kW
                .         .         .
                .         .         .
1724            .         .         .         .<-------   D56iP
1722            .         .         .     BD56iP
                .         .         .         V
                .         .         .         V
1725            .         .         .      P56iS
                .         .         .         .
                .         .         .         .
1730            .         .         .         .         .<-------   D56iS
1728            .         .         .         .     BD56iS
                .         .         .         .         V
                .         .         .         .         V
1731            .         .         .         .      R56iS
                .         .         .         .         .
                .         .         .         .         .
1737            .         .         .      C56iS............
                .         .         .         .
```

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1740                                  56k
1747                 C56k.......................
1752                                  .<-------   D60iP
1750                      BD60iP
1756                                  .------->  D60iP2
1753                      D60iP1
                                 V
                                 V
1759                      P60iS1
1764                                            .<-------  D60iP2
1762                                      B60iP2
                                               V
                                               V
1765                                      P60iS2
1770                                                       .<-------   D60iS
1768                                                 BD60iS
                                                          V
                                                          V
1771                                                  R60iS
1777                       C60iS......................
1780                                          60k
1787                        C60k............
1793                                          .------->    D60k
1790                       D60kP
1800                                          .------->  D60kP2
1796                      D60kP1
                                 V
                                 V
1803                       P60kE
1806                 CC56k............
1811                      .------->   D56kP
1809                  D56k
1816                      .------->   D56kS
1814                 D56kW
                        V
                        V
1819                 R56kW
1827                                          .<-------    D60k
1825                       BD60k
1828                 CC60k............
1833                      .------->   D60kS
1831                 D60kW
                        V
                        V
1836                 R60kW
1842                          64k
1851                                            .<-------   D64iS
1849                                      BD64iS
                                               V
```

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                .           .           .           .           V
1852            .           .           .           .       R64iS
                .           .           .           .           .
                .           .           .           .           .
1858            .           .        C64k.......................
                .           .           V
                .           .           V
1861            .           .        S64k
                .           .           .
                .           .           .
1869            .           .           .           .<-------   D64iP
1867            .           .           .      BD64iP
                .           .           .           V
                .           .           .           V
1870            .           .           .       P64iS
                .           .           .           .
                .           .           .           .
1873            .           .       CC64k............
                .           .           .
                .           .           .
1878            .           .           .-------->   D64kP
1876            .           .        D64k
                .           .           .
                .           .           .
1883            .           .           .-------->   D64kS
1881            .           .       D64kW
                .           .           V
                .           .           V
1886            .           .       R64kW
                .           .           .
                .           .           .
1892            .           .           .         68k
                .           .           .           .
                .           .           .           .
1899            .         C68k........................
                .           .
                .           .
1904            .           .-------->   D68kP
1902            .         D68k
                .           .
                .           .
1909            .           .-------->   D68kS
1907            .        D68kW
                .           V
                .           V
1912            .        R68kW
                .           .
                .           .
1918            .           .         72k
                .           .           V
                .           .           V
1925            .           .        S72k
                .           .           .
                .           .           .
1933            .           .           .<-------  D72iP1
1931            .           .           .      B72iP1
                .           .           .           V
                .           .           .           V
1934            .           .           .       P72iS
                .           .           .           .
                .           .           .           .
1939            .           .           .           .           .<-------   D72iS
1937            .           .           .           .      BD72iS
                .           .           .           .           V
                .           .           .           .           V
1940            .           .           .           .       R72iS
                .           .           .           .           .
                .           .           .           .           .
1946            .           .           .       C72iS............
                .           .           .           .
                .           .           .           .
1949            .         C72k........................
                .           .
                .           .
1952         CC72k............
                .
                .
1957            .-------->   D72kP
1955          D72k
                .
                .
1962            .-------->   D72kS
1960         D72kW
                V
                V
1965         R72kW
```

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                .
                .
1973            .           .<-------   D76k1
1971            .       B76k1
                .           .
                .           .
1974        CC76k............
                .
                .
1979            .------->   D76kP
1977         D76k
                .
                .
1984            .------->   D76kS
1982        D76kW
                V
                V
1987        R76kW
                .
                .
1993            .         80k
                .           .
                .           .
2002            .           .           .<-------    D80i
2000            .           .       BD80i
                .           .           V
                .           .           V
2003            .           .       R80iS
                .           .           .
                .           .           .
2011            .           .           .           .<-------  D80kP1
2009            .           .           .      B80kP1
                .           .           .           .
                .           .           .           .
2012            .        C80k........................
                .           .
                .           .
2017            .           .------->   D80kP
2015            .        D80k
                .           .
                .           .
2020        CC80k............
                .
                .
2025            .------->   D80kS
2023        D80kW
                V
                V
2028        R80kW
                .
                .
2034            .         84k
                .           .
                .           .
2043            .           .           .<-------   D84iS
2041            .           .      BD84iS
                .           .           V
                .           .           V
2044            .           .       R84iS
                .           .           .
                .           .           .
2050         C84k........................
                V
                V
2053        R84kS
                .
                .
2059            .         84m
                .           .
                .           .
2066         C84m............
                .
                .
2069            .         I17
                .           .
                .           .
2078            .           .------->   D84mP
2076            .        D84m
                .           .
                .           .
2081        CC84m............
                .
                .
2086            .------->   D84mS
2084        D84mE
                V
```

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                V
2089        R84mE
                .
                .
2095            .          80m
                .            .
                .            .
2104            .            .            .<-------   D80kS
2102            .            .       BD80kS
                .            .            V
                .            .            V
2105            .            .        R80kS
                .            .            .
                .            .            .
2111         C80m.......................
                .
                .
2116            .------->   D80mS
2114        D80mE
                V
                V
2119        R80mE
                .
                .
2125            .          761
                .            .
                .            .
2134            .            .            .<-------   D80kP
2132            .            .       BD80kP
                .            .            .
                .            .            .
2137            .            .            .           .<-------   D76kP
2135            .            .            .       BD76kP
                .            .            .           .
                .            .            .           .
2138            .            .        C76kP............
                .            .            V
                .            .            V
2141            .            .        P76kS
                .            .            .
                .            .            .
2146            .            .            .           .<-------   D76kS
2144            .            .            .       BD76kS
                .            .            .           V
                .            .            .           V
2147            .            .            .        R76kS
                .            .            .           .
                .            .            .           .
2153            .            .        C76kS............
                .            .            .
                .            .            .
2156            .         C76l............
                .            .
                .            .
2161            .            .------->   D76lP
2159            .         D76l
                .            V
                .            V
2164            .        R76lS
                .            .
                .            .
2172            .            .            .<-------   D76lP
2170            .            .       BD76lP
                .            .            V
                .            .            V
2173            .            .        P76lS
                .            .            .
                .            .            .
2176            .        C76lS............
                .            .
                .            .
2179            .            .          76m
                .            .            V
                .            .            V
2186            .            .         S76m
                .            .            .
                .            .            .
2192         C76m.......................
                .
                .
2198            .------->    D76m
2195        D76mP
                .
                .
2204            .------->  D76mP2
2201       D76mP1
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                .
                .
2207            .         721
                .           .
                .           .
2216            .           .           .<-------   D72kP
2214            .           .      BD72kP
                .           .           V
                .           .           V
2217            .           .       P72kS
                .           .           .
                .           .           .
2222            .           .           .           .<-------   D72kS
2220            .           .           .      BD72kS
                .           .           .           V
                .           .           .           V
2223            .           .           .       R72kS
                .           .           .           .
                .           .           .           .
2229            .           .       C72kS............
                .           .           .
                .           .           .
2232            .        C721............
                .           .
                .           .
2237            .           .------->   D721P
2235            .        D721
                .           V
                .           V
2240            .       R721S
                .           .
                .           .
2248            .           .           .<-------   D721P
2246            .           .      BD721P
                .           .           V
                .           .           V
2249            .           .       P721S
                .           .           .
                .           .           .
2252            .       C721S............
                .           .
                .           .
2255            .           .         72m
                .           .           .
                .           .           .
2262         C72m........................
                .
                .
2265            .         601
                .           .
                .           .
2274            .           .           .<-------  D60kP2
2272            .           .      B60kP2
                .           .           V
                .           .           V
2275            .           .       P60kS
                .           .           .
                .           .           .
2280            .           .           .           .<-------   D60kS
2278            .           .           .      BD60kS
                .           .           .           V
                .           .           .           V
2281            .           .           .       R60kS
                .           .           .           .
                .           .           .           .
2287            .           .       C60kS............
                .           .           .
                .           .           .
2290            .        C601............
                .           .
                .           .
2295            .           .------->   D601P
2293            .        D601
                .           .
                .           .
2300            .           .------->   D601S
2298            .       D601W
                .           V
                .           V
2303            .       R601W
                .           .
                .           .
2309            .           .         641
                .           .           .
                .           .           .
2318            .           .           .           .<-------   D64kS
```

```
2316          .          .          .      BD64kS
              .          .          .           V
              .          .          .           V
2319          .          .          .       R64kS
              .          .          .           .
              .          .          .           .
2325          .       C641.......................
              .          V
              .          V
2328          .       S641
              .          .
              .          .
2336          .          .          .<-------   D64kP
2334          .          .     BD64kP
              .          .          V
              .          .          V
2337          .          .      P64kS
              .          .          .
              .          .          .
2340          .      CC641............
              .          .
              .          .
2345          .          .------->   D641P
2343          .       D641
              .          .
              .          .
2350          .          .------->   D641S
2348          .      D641W
              .          V
              .          V
2353          .      R641W
              .          .
              .          .
2359          .          .        681
              .          .          .
              .          .          .
2368          .          .          .          .<-------   D68kP
2366          .          .          .      BD68kP
              .          .          .           V
              .          .          .           V
2369          .          .          .       P68kS
              .          .          .           .
              .          .          .           .
2374          .          .          .           .           .<-------   D68kS
2372          .          .          .           .      BD68kS
              .          .          .           .           V
              .          .          .           .           V
2375          .          .          .           .       R68kS
              .          .          .           .           .
              .          .          .           .           .
2381          .          .          .       C68kS............
              .          .          .           .
              .          .          .           .
2384          .       C681.......................
              .          .
              .          .
2389          .          .------->   D681P
2387          .       D681
              .          V
              .          V
2392          .      R681S
              .          .
              .          .
2400          .          .          .<-------   D681P
2398          .          .     BD681P
              .          .          V
              .          .          V
2401          .          .      P681S
              .          .          .
              .          .          .
2404          .      C681S............
              .          .
              .          .
2407          .          .        24m
              .          .          V
              .          .          V
2414          .          .       S24m
              .          .          .
              .          .          .
2422          .          .          .          .<-------   D24kS
2420          .          .          .      BD24kS
              .          .          .           V
              .          .          .           V
2423          .          .          .       R24kS
              .          .          .           .
              .          .          .           .
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```
2429          .          .        C24m............
              .          .           .
              .          .           .
2434          .          .           .-------->   D24mS
2432          .          .       D24mW
              .          .          V
              .          .          V
2437          .          .       R24mW
              .          .           .
              .          .           .
2443          .          .           .         28m
              .          .           .           .
              .          .           .           .
2452          .          .           .           .          .<-------   D28kP
2450          .          .           .           .     BD28kP
              .          .           .           .          V
              .          .           .           .          V
2453          .          .           .           .      P28kS
              .          .           .           .           .
              .          .           .           .           .
2458          .          .           .           .           .          .<-------   D28kS
2456          .          .           .           .           .     BD28kS
              .          .           .           .           .          V
              .          .           .           .           .          V
2459          .          .           .           .           .      R28kS
              .          .           .           .           .           .
              .          .           .           .           .           .
2465          .          .           .           .      C28kS............
              .          .           .           .           .
              .          .           .           .           .
2468          .          .        C28m........................
              .          .           .
              .          .           .
2473          .          .           .-------->   D28mP
2471          .          .        D28m
              .          .           .
              .          .           .
2478          .          .           .-------->   D28mS
2476          .          .       D28mW
              .          .          V
              .          .          V
2481          .          .       R28mW
              .          .           .
              .          .           .
2487          .          .           .         32m
              .          .           .           V
              .          .           .           V
2494          .          .           .        S32m
              .          .           .           .
              .          .           .           .
2502          .          .           .           .          .<-------   D32kP
2500          .          .           .           .     BD32kP
              .          .           .           .          V
              .          .           .           .          V
2503          .          .           .           .      P32kS
              .          .           .           .           .
              .          .           .           .           .
2508          .          .           .           .           .          .<-------   D32kS
2506          .          .           .           .           .     BD32kS
              .          .           .           .           .          V
              .          .           .           .           .          V
2509          .          .           .           .           .      R32kS
              .          .           .           .           .           .
              .          .           .           .           .           .
2515          .          .           .           .      C32kS............
              .          .           .           .           .
              .          .           .           .           .
2518          .          .        C32m........................
              .          .           .
              .          .           .
2523          .          .           .-------->   D32mP
2521          .          .        D32m
              .          .           .
              .          .           .
2528          .          .           .-------->   D32mS
2526          .          .       D32mW
              .          .          V
              .          .          V
2531          .          .       R32mW
              .          .           .
              .          .           .
2537          .          .           .         36m
              .          .           .           .
              .          .           .           .
2546          .          .           .           .          .<-------   D36kP
2544          .          .           .           .     BD36kP
```

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                 .         .         .         .         V
                 .         .         .         .         V
2547             .         .         .         .      P36kS
                 .         .         .         .         .
                 .         .         .         .         .
2552             .         .         .         .         .          .<-------   D36kS
2550             .         .         .         .         .     BD36kS
                 .         .         .         .         .         V
                 .         .         .         .         .         V
2553             .         .         .         .         .      R36kS
                 .         .         .         .         .         .
                 .         .         .         .         .         .
2559             .         .         .         .      C36kS............
                 .         .         .         .         .
                 .         .         .         .         .
2562             .         .      C36m.......................
                 .         .         .
                 .         .         .
2567             .         .         .-------->   D36mP
2565             .         .      D36m
                 .         .         .
                 .         .         .
2572             .         .         .-------->   D36mS
2570             .         .     D36mW
                 .         .         V
                 .         .         V
2575             .         .     R36mW
                 .         .         .
                 .         .         .
2581             .         .         .         40m
                 .         .         .           .
                 .         .         .           .
2590             .         .         .           .          .<-------   D40kP
2588             .         .         .         .     BD40kP
                 .         .         .           .         V
                 .         .         .           .         V
2591             .         .         .           .      P40kS
                 .         .         .           .         .
                 .         .         .           .         .
2596             .         .         .           .         .          .<-------   D40kS
2594             .         .         .           .         .     BD40kS
                 .         .         .           .         .         V
                 .         .         .           .         .         V
2597             .         .         .           .         .      R40kS
                 .         .         .           .         .         .
                 .         .         .           .         .         .
2603             .         .         .           .      C40kS............
                 .         .         .           .         .
                 .         .         .           .         .
2606             .         .      C40m.......................
                 .         .         .
                 .         .         .
2611             .         .         .-------->   D40mP
2609             .         .      D40m
                 .         .         .
                 .         .         .
2616             .         .         .-------->   D40mS
2614             .         .     D40mW
                 .         .         V
                 .         .         V
2619             .         .     R40mW
                 .         .         .
                 .         .         .
2625             .         .         .         44m
                 .         .         .           .
                 .         .         .           .
2634             .         .         .           .          .<-------   D44kP
2632             .         .         .         .     BD44kP
                 .         .         .           .         V
                 .         .         .           .         V
2635             .         .         .           .      P44kS
                 .         .         .           .         .
                 .         .         .           .         .
2640             .         .         .           .         .          .<-------   D44kS
2638             .         .         .           .         .     BD44kS
                 .         .         .           .         .         V
                 .         .         .           .         .         V
2641             .         .         .           .         .      R44kS
                 .         .         .           .         .         .
                 .         .         .           .         .         .
2647             .         .         .           .      C44kS............
                 .         .         .           .         .
                 .         .         .           .         .
2650             .         .      C44m.......................
                 .         .         .
                 .         .         .
```

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2655          .          .          .-------->   D44mP
2653          .          .      D44m
              .          .          .
              .          .          .
2660          .          .          .-------->   D44mS
2658          .          .     D44mW
              .          .         V
              .          .         V
2663          .          .     R44mW
              .          .          .
              .          .          .
2669          .          .          .        24o
              .          .          .          .
              .          .          .          .
2678          .          .          .          .          .<-------   D24mS
2676          .          .          .          .     BD24mS
              .          .          .          .          V
              .          .          .          .          V
2679          .          .          .          .      R24mS
              .          .          .          .          .
              .          .          .          .          .
2685          .          .          .       C24o...........
              .          .          .          .
              .          .          .          .
2690          .          .          .          .-------->   D24oP
2688          .          .          .       D24o
              .          .          .          .
              .          .          .          .
2695          .          .          .          .-------->   D24oS
2693          .          .          .      D24oW
              .          .          .         V
              .          .          .         V
2698          .          .          .      R24oW
              .          .          .          .
              .          .          .          .
2704          .          .          .          .        28o
              .          .          .          .          .
              .          .          .          .          .
2713          .          .          .          .          .          .<-------   D28mP
2711          .          .          .          .          .     BD28mP
              .          .          .          .          .          V
              .          .          .          .          .          V
2714          .          .          .          .          .      P28mS
              .          .          .          .          .          .
              .          .          .          .          .          .
2719          .          .          .          .          .          .          .<-------   D28mS
2717          .          .          .          .          .          .     BD28mS
              .          .          .          .          .          .          V
              .          .          .          .          .          .          V
2720          .          .          .          .          .          .      R28mS
              .          .          .          .          .          .          .
              .          .          .          .          .          .          .
2726          .          .          .          .          .      C28mS...........
              .          .          .          .          .          .
              .          .          .          .          .          .
2729          .          .          .       C28o......................
              .          .          .          .
              .          .          .          .
2734          .          .          .          .-------->   D28oP
2732          .          .          .       D28o
              .          .          .          .
              .          .          .          .
2739          .          .          .          .-------->   D28oS
2737          .          .          .      D28oW
              .          .          .         V
              .          .          .         V
2742          .          .          .      R28oW
              .          .          .          .
              .          .          .          .
2748          .          .          .          .        32o
              .          .          .          .          .
              .          .          .          .          .
2757          .          .          .          .          .          .<-------   D32mS
2755          .          .          .          .          .     BD32mS
              .          .          .          .          .          V
              .          .          .          .          .          V
2758          .          .          .          .          .      R32mS
              .          .          .          .          .          .
              .          .          .          .          .          .
2766          .          .          .          .          .          .          .<-------   D32mP
2764          .          .          .          .          .          .     BD32mP
              .          .          .          .          .          .          V
              .          .          .          .          .          .          V
2767          .          .          .          .          .          .      P32mS
              .          .          .          .          .          .          .
              .          .          .          .          .          .          .
```

Metro ADMS/P 50-Year, 24-Hour Model

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2770          .           .           .           .           .       C32mS............
              .           .           .           .           .           .
              .           .           .           .           .           .
2773          .           .           .       C32o........................
              .           .           .           .
              .           .           .           .
2778          .           .           .           .-------->  D32oP
2776          .           .           .       D32o
              .           .           .           .
              .           .           .           .
2783          .           .           .           .-------->  D32oS
2781          .           .           .      D32oW
              .           .           .          V
              .           .           .          V
2786          .           .           .      R32oW
              .           .           .           .
              .           .           .           .
2792          .           .           .           .        36o
              .           .           .           .           .
              .           .           .           .           .
2801          .           .           .           .           .           .<-------   D36mP
2799          .           .           .           .           .      BD36mP
              .           .           .           .           .           V
              .           .           .           .           .           V
2802          .           .           .           .           .       P36mS
              .           .           .           .           .           .
              .           .           .           .           .           .
2807          .           .           .           .           .           .           .<-------   D36mS
2805          .           .           .           .           .           .      BD36mS
              .           .           .           .           .           .           V
              .           .           .           .           .           .           V
2808          .           .           .           .           .           .       R36mS
              .           .           .           .           .           .           .
              .           .           .           .           .           .           .
2814          .           .           .           .           .           .       C36mS............
              .           .           .           .           .           .           .
              .           .           .           .           .           .           .
2817          .           .           .       C36o........................
              .           .           .           .
              .           .           .           .
2822          .           .           .           .-------->  D36oP
2820          .           .           .       D36o
              .           .           .           .
              .           .           .           .
2827          .           .           .           .-------->  D36oS
2825          .           .           .      D36oW
              .           .           .          V
              .           .           .          V
2830          .           .           .      R36oW
              .           .           .           .
              .           .           .           .
2838          .           .           .           .           .<-------   D40mP
2836          .           .           .           .      B40mP
              .           .           .           .           V
              .           .           .           .           V
2839          .           .           .           .      P40mS
              .           .           .           .           .
              .           .           .           .           .
2844          .           .           .           .           .           .<-------   D40mS
2842          .           .           .           .           .      BD40mS
              .           .           .           .           .           V
              .           .           .           .           .           V
2845          .           .           .           .           .       R40mS
              .           .           .           .           .           .
              .           .           .           .           .           .
2851          .           .           .           .      C40mS............
              .           .           .           .           .
              .           .           .           .           .
2854          .           .           .           .           .        40o
              .           .           .           .           .           .
              .           .           .           .           .           .
2861          .           .           .       C40o........................
              .           .           .           .
              .           .           .           .
2866          .           .           .           .-------->  D40oP
2864          .           .           .       D40o
              .           .           .           .
              .           .           .           .
2871          .           .           .           .-------->  D40oS
2869          .           .           .      D40oW
              .           .           .          V
              .           .           .          V
2874          .           .           .      R40oW
              .           .           .           .
              .           .           .           .
2880          .           .           .           .        44o
```

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                .         .         .         .         .
                .         .         .         .         .
2889            .         .         .         .         .         .<-------   D44mP
2887            .         .         .         .         .     BD44mP
                .         .         .         .         .         V
                .         .         .         .         .         V
2890            .         .         .         .         .      P44mS
                .         .         .         .         .         .
                .         .         .         .         .         .
2895            .         .         .         .         .         .         .<-------   D44mS
2893            .         .         .         .         .         .     BD44mS
                .         .         .         .         .         .         V
                .         .         .         .         .         .         V
2896            .         .         .         .         .         .      R44mS
                .         .         .         .         .         .         .
                .         .         .         .         .         .         .
2902            .         .         .         .         .      C44mS............
                .         .         .         .         .         .
                .         .         .         .         .         .
2905            .         .         .       C44o........................
                .         .         .         .
                .         .         .         .
2910            .         .         .         .-------->   D44oP
2908            .         .         .       D44o
                .         .         .         .
                .         .         .         .
2915            .         .         .         .-------->   D44oS
2913            .         .         .      D44oW
                .         .         .         V
                .         .         .         V
2918            .         .         .      R44oW
                .         .         .         .
                .         .         .         .
2924            .         .     C44mW............
                .         .         .
                .         .         .
2927            .         .         .        48m
                .         .         .         .
                .         .         .         .
2936            .         .         .         .         .<-------   D48kS
2934            .         .         .         .     BD48kS
                .         .         .         .         V
                .         .         .         .         V
2937            .         .         .         .      R48kS
                .         .         .         .         .
                .         .         .         .         .
2943            .         .      C48m........................
                .         .         .
                .         .         .
2948            .         .         .         .<-------   D52kP
2946            .         .         .     BD52kP
                .         .         .         V
                .         .         .         V
2949            .         .         .      P52kS
                .         .         .         .
                .         .         .         .
2954            .         .         .         .         .<-------   D52kS
2952            .         .         .         .     BD52kS
                .         .         .         .         V
                .         .         .         .         V
2955            .         .         .         .      R52kS
                .         .         .         .         .
                .         .         .         .         .
2961            .         .         .      C52kS............
                .         .         .         .
                .         .         .         .
2964            .         .         .         .        52m
                .         .         .         .         .
                .         .         .         .         .
2971            .         .         .       C52m............
                .         .         .         .
                .         .         .         .
2974            .         .     CC52m............
                .         .         .
                .         .         .
2980            .         .         .-------->   D52mP
2977            .         .      D52m
                .         .         .
                .         .         .
2985            .         .         .-------->   D52mS
2983            .         .     D52mW
                .         .         V
                .         .         V
2988            .         .     R52mW
                .         .         .
                .         .         .
```

```
2994                                  54m
                                       .
                                       .
3003                                   .          .<-------   D54kP
3001                                   .      BD54kP
                                       .          V
                                       .          V
3004                                   .       P54kS
                                       .          .
                                       .          .
3009                                   .          .           .<-------   D54kS
3007                                   .          .      BD54kS
                                       .          .           V
                                       .          .           V
3010                                   .          .       R54kS
                                       .          .           .
                                       .          .           .
3016                                   .       C54kS............
                                       .          .
                                       .          .
3019                          C54m.......................
                                  .
                                  .
3024                              .-------->   D54mP
3022                          D54m
                                  .
                                  .
3029                              .-------->   D54mS
3027                         D54mW
                                 V
                                 V
3032                         R54mW
                                  .
                                  .
3038                                  56m
                                       .
                                       .
3047                                   .          .<-------   D56kP
3045                                   .      BD56kP
                                       .          V
                                       .          V
3048                                   .       P56kS
                                       .          .
                                       .          .
3053                                   .          .           .<-------   D56kS
3051                                   .          .      BD56kS
                                       .          .           V
                                       .          .           V
3054                                   .          .       R56kS
                                       .          .           .
                                       .          .           .
3060                                   .       C56kS............
                                       .          .
                                       .          .
3063                          C56m.......................
                                  .
                                  .
3068                              .-------->   D56mP
3066                          D56m
                                  .
                                  .
3073                              .-------->   D56mS
3071                         D56mW
                                 V
                                 V
3076                         R56mW
                                  .
                                  .
3082                                  60m
                                       .
                                       .
3091                                   .          .<-------   D601P
3089                                   .      BD601P
                                       .          V
                                       .          V
3092                                   .       P601S
                                       .          .
                                       .          .
3097                                   .          .           .<-------   D601S
3095                                   .          .      BD601S
                                       .          .           V
                                       .          .           V
3098                                   .          .       R601S
                                       .          .           .
                                       .          .           .
3104                                   .       C601S............
```

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                .           .           .           .           .
                .           .           .           .           .
3107            .           .       C60m.......................
                .           .           .
                .           .           .
3112            .           .           .-------->  D60mP
3110            .           .       D60m
                .           .           .
                .           .           .
3117            .           .           .-------->  D60mS
3115            .           .      D60mW
                .           .          V
                .           .          V
3120            .           .      R60mW
                .           .           .
                .           .           .
3126            .           .           .        64m
                .           .           .          .
                .           .           .          .
3135            .           .           .          .          .<-------   D641P
3133            .           .           .          .     BD641P
                .           .           .          .          V
                .           .           .          .          V
3136            .           .           .          .      P641S
                .           .           .          .           .
                .           .           .          .           .
3141            .           .           .          .           .           .<-------   D641S
3139            .           .           .          .           .     BD641S
                .           .           .          .           .          V
                .           .           .          .           .          V
3142            .           .           .          .           .      R641S
                .           .           .          .           .           .
                .           .           .          .           .           .
3148            .           .           .          .      C641S............
                .           .           .          .           .
                .           .           .          .           .
3151            .           .           .          .           .        68m
                .           .           .          .           .           .
                .           .           .          .           .           .
3161            .           .           .          .           .           .-------->   D68m
3158            .           .           .          .           .     D68mP2
                .           .           .          .           .           .
                .           .           .          .           .           .
3164            .           .       C64m.....................................
                .           .           .
                .           .           .
3169            .           .           .-------->  D64mP
3167            .           .       D64m
                .           .           .
                .           .           .
3174            .           .           .-------->  D64mS
3172            .           .      D64mW
                .           .          V
                .           .          V
3177            .           .      R64mW
                .           .           .
                .           .           .
3185            .           .           .          .<-------    D68m
3183            .           .           .      BD68m
                .           .           .          .
                .           .           .          .
3186            .       C68m........................
                .           .
                .           .
3191            .           .-------->  D68mP
3189            .      D68m2
                .           .
                .           .
3196            .           .-------->  D68mS
3194            .      D68mW
                .           V
                .           V
3199            .      R68mW
                .           .
                .           .
3205       CC72m............
                .
                .
3210            .-------->  D72mP
3208        D72m
                V
                V
3213       R72mS
                .
                .
3221            .           .<-------   D72mP
```

```
3219          .      BD72mP
              .          V
              .          V
3222          .       P72mS
              .          .
              .          .
3225      C72mS............
              .
              .
3230          .          .<-------   D24oS
3228          .      BD24oS
              .          V
              .          V
3231          .       R24oS
              .          .
              .          .
3239          .          .          .<-------   D28oP
3237          .          .     BD28oP
              .          .          V
              .          .          V
3240          .          .      P28oS
              .          .          .
              .          .          .
3245          .          .          .          .<-------   D28oS
3243          .          .          .     BD28oS
              .          .          .          V
              .          .          .          V
3246          .          .          .      R28oS
              .          .          .          .
              .          .          .          .
3252          .          .      C28oS............
              .          .          .
              .          .          .
3255          .       C28p............
              .          .
              .          .
3258          .          .        28p
              .          .          V
              .          .          V
3265          .          .       S28p
              .          .          .
              .          .          .
3271          .      CC28p............
              .          .
              .          .
3277          .          .------->   D28pP
3274          .       D28p
              .          V
              .          V
3280          .      R28pW
              .          .
              .          .
3286          .          .        32p
              .          .          .
              .          .          .
3295          .          .          .          .<-------   D32oS
3293          .          .          .     BD32oS
              .          .          .          V
              .          .          .          V
3296          .          .          .      R32oS
              .          .          .          .
              .          .          .          .
3302          .          .       C32p............
              .          .          V
              .          .          V
3305          .          .       S32p
              .          .          .
              .          .          .
3314          .          .          .          .<-------   D32oP
3312          .          .          .     BD32oP
              .          .          .          V
              .          .          .          V
3315          .          .          .      P32oS
              .          .          .          .
              .          .          .          .
3318          .      CC32p........................
              .          .
              .          .
3323          .          .------->   D32pS
3321          .      D32pW
              .          .
              .          .
3328          .          .------->   D32pP
3326          .       D32p
              .          V
              .          V
```

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3331          .       R32pW
              .           .
              .           .
3339          .           .           .<-------   D32pP
3337          .           .      BD32pP
              .           .           V
              .           .           V
3340          .           .       P32pW
              .           .           .
              .           .           .
3343          .       C32pW............
              .           .
              .           .
3346          .           .         28q
              .           .           V
              .           .           V
3353          .           .        S28q
              .           .           .
              .           .           .
3361          .           .           .           .<-------   D28pP
3359          .           .           .      BD28pP
              .           .           .           .
              .           .           .           .
3364          .           .           .           .------->  D28pP2
3362          .           .           .      D28pP1
              .           .           .           V
              .           .           .           V
3367          .           .           .       P28pS
              .           .           .           .
              .           .           .           .
3370          .           .        C28q............
              .           .           .
              .           .           .
3376          .           .           .------->   D28qP
3373          .           .        D28q
              .           .           .
              .           .           .
3381          .           .           .------->   D28qS
3379          .           .       D28qW
              .           .           V
              .           .           V
3384          .           .       R28qW
              .           .           .
              .           .           .
3390          .           .           .         32q
              .           .           .           .
              .           .           .           .
3399          .           .           .           .           .<-------   D32pS
3397          .           .           .           .      BD32pS
              .           .           .           .           .
              .           .           .           .           .
3400          .           .        C32q........................
              .           .           V
              .           .           V
3403          .           .        S32q
              .           .           .
              .           .           .
3413          .           .           .------->    D32q
3410          .           .       D32qP
              .           .           V
              .           .           V
3416          .           .       P32qW
              .           .           .
              .           .           .
3419          .      C32pqW............
              .           .
              .           .
3422          .           .         36p
              .           .           .
              .           .           .
3431          .           .           .           .<-------   D36oS
3429          .           .           .      BD36oS
              .           .           .           V
              .           .           .           V
3432          .           .           .       R36oS
              .           .           .           .
              .           .           .           .
3438          .        C36p........................
              .           .
              .           .
3443          .           .------->   DB36p
3441          .        E36p
              .           .
              .           .
3448          .           .           .<-------   DB36p
3446          .           .      BDB36p
```

```
                 .          .          V
                 .          .          V
3449             .          .       S36p
                 .          .          .
                 .          .          .
3459             .          .          .          .<-------   D36oP
3457             .          .          .     BD36oP
                 .          .          .          V
                 .          .          .          V
3460             .          .          .      P36oS
                 .          .          .          .
                 .          .          .          .
3463             .      CC36p.......................
                 .          .
                 .          .
3468             .          .------->   D36pP
3466             .       D36p
                 .          V
                 .          V
3471             .      R36pW
                 .          .
                 .          .
3479             .          .          .<-------   D36pP
3477             .          .     BD36pP
                 .          .          .
                 .          .          .
3482             .          .          .------->  D36pP2
3480             .          .     D36pP1
                 .          .          V
                 .          .          V
3485             .          .      P36pW
                 .          .          .
                 .          .          .
3488             .      C36pW............
                 .          .
                 .          .
3491             .          .        40p
                 .          .          .
                 .          .          .
3500             .          .          .          .<-------   D40oP
3498             .          .          .     BD40oP
                 .          .          .          V
                 .          .          .          V
3501             .          .          .      P40oS
                 .          .          .          .
                 .          .          .          .
3506             .          .          .          .          .<-------   D40oS
3504             .          .          .          .     BD40oS
                 .          .          .          .          V
                 .          .          .          .          V
3507             .          .          .          .      R40oS
                 .          .          .          .          .
                 .          .          .          .          .
3513             .          .          .      C40oS............
                 .          .          .          .
                 .          .          .          .
3516             .       C40p.......................
                 .          .
                 .          .
3521             .          .------->   D40pP
3519             .       D40p
                 .          V
                 .          V
3524             .      R40pW
                 .          .
                 .          .
3532             .          .          .<-------   D40pP
3530             .          .     BD40pP
                 .          .          V
                 .          .          V
3533             .          .      P40pW
                 .          .          .
                 .          .          .
3537             .      C40pW............
                 .          .
                 .          .
3540             .          .        44p
                 .          .          .
                 .          .          .
3549             .          .          .          .<-------   D44oP
3547             .          .          .     BD44oP
                 .          .          .          V
                 .          .          .          V
3550             .          .          .      P44oS
                 .          .          .          .
                 .          .          .          .
```

```
3555  .        .        .        .        .<-------  D44oS
3553  .        .        .        .     BD44oS
      .        .        .        .        V
      .        .        .        .        V
3556  .        .        .        .     R44oS
      .        .        .        .        .
      .        .        .        .        .
3562  .        .        .     C44oS............
      .        .        .        .
      .        .        .        .
3565  .     C44p......................
      .        .
      .        .
3570  .        .------->  D44pP
3568  .     D44p
      .        V
      .        V
3573  .    R44pW
      .        .
      .        .
3581  .        .        .<-------  D44pP
3579  .        .    BD44pP
      .        .        .
      .        .        .
3584  .        .        .------->  D44pP2
3582  .        .    D44pP1
      .        .        V
      .        .        V
3587  .        .     P44pW
      .        .        .
      .        .        .
3591  .    C44pW............
      .        .
      .        .
3594  .        .      48o
      .        .        .
      .        .        .
3603  .        .        .        .<-------  D52mS
3601  .        .        .    BD52mS
      .        .        .        V
      .        .        .        V
3604  .        .        .     R52mS
      .        .        .        .
      .        .        .        .
3612  .        .        .        .        .<-------  D52mP
3610  .        .        .        .     BD52mP
      .        .        .        .        V
      .        .        .        .        V
3613  .        .        .        .     P52mS
      .        .        .        .        .
      .        .        .        .        .
3616  .        .        .     C52mS............
      .        .        .        .
      .        .        .        .
3619  .     C48o......................
      .        .
      .        .
3624  .        .------->  DB48o
3622  .     E48o
      .        .
      .        .
3629  .        .        .<-------  DB48o
3627  .        .    BDB48o
      .        .        V
      .        .        V
3630  .        .     S48o
      .        .        .
      .        .        .
3638  .    CC48o............
      .        .
      .        .
3643  .        .------->  D48oPT
3641  .     D48o
      .        V
      .        V
3646  .    R48oW
      .        .
      .        .
3653  .        .      52o
      .        .        .
      .        .        .
3662  .        .        .        .<-------  D54mP
3660  .        .        .    BD54mP
      .        .        .        V
      .        .        .        V
3663  .        .        .     P54mS
```

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                .          .          .
                .          .          .
3668            .          .          .          .<-------   D54mS
3666            .          .          .     BD54mS
                .          .          .          V
                .          .          .          V
3669            .          .          .      R54mS
                .          .          .          .
                .          .          .          .
3675            .          .      C54mS...........
                .          .          .
                .          .          .
3678            .      C52o......................
                .          .
                .          .
3684            .          .------->  D52oP
3681            .      D52o
                .          V
                .          V
3687            .     R52oW
                .          .
                .          .
3695            .          .          .<-------   D52oP
3693            .          .     BD52oP
                .          .          V
                .          .          V
3696            .          .      P52oW
                .          .          .
                .          .          .
3699            .     C52oW...........
                .          .
                .          .
3702            .          .        56o
                .          .          .
                .          .          .
3711            .          .          .          .<-------   D56mP
3709            .          .          .     BD56mP
                .          .          .          V
                .          .          .          V
3712            .          .          .      P56mS
                .          .          .          .
                .          .          .          .
3717            .          .          .          .          .<-------   D56mS
3715            .          .          .          .     BD56mS
                .          .          .          .          V
                .          .          .          .          V
3718            .          .          .          .      R56mS
                .          .          .          .          .
                .          .          .          .          .
3724            .          .          .      C56mS...........
                .          .          .          .
                .          .          .          .
3727            .      C56o......................
                .          .
                .          .
3733            .          .------->  D56oP
3730            .      D56o
                .          V
                .          V
3736            .     R56oW
                .          .
                .          .
3744            .          .          .<-------   D56oP
3742            .          .     BD56oP
                .          .          V
                .          .          V
3745            .          .      P56oW
                .          .          .
                .          .          .
3749            .     C56oW...........
                .          .
                .          .
3752            .          .        60o
                .          .          .
                .          .          .
3761            .          .          .          .<-------   D60mP
3759            .          .          .     BD60mP
                .          .          .          V
                .          .          .          V
3762            .          .          .      P60mS
                .          .          .          .
                .          .          .          .
3767            .          .          .          .          .<-------   D60mS
3765            .          .          .          .     BD60mS
                .          .          .          .          V
                .          .          .          .          V
```

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3768          .           .           .           .       R60mS
              .           .           .           .           .
              .           .           .           .           .
3774          .           .           .       C60mS............
              .           .           .           .
              .           .           .           .
3777          .        C60o........................
              .           .
              .           .
3783          .           .-------> D60oPT
3780          .        D60o
              .           V
              .           V
3786          .       R60oW
              .           .
              .           .
3792          .           .         64o
              .           .           V
              .           .           V
3799          .           .        S64o
              .           .           .
              .           .           .
3807          .           .           .           .<-------   D64mP
3805          .           .           .      BD64mP
              .           .           .           V
              .           .           .           V
3808          .           .           .       P64mS
              .           .           .           .
              .           .           .           .
3813          .           .           .           .           .<-------   D64mS
3811          .           .           .           .      BD64mS
              .           .           .           .           V
              .           .           .           .           V
3814          .           .           .           .       R64mS
              .           .           .           .           .
              .           .           .           .           .
3820          .           .           .       C64mS............
              .           .           .           .
              .           .           .           .
3823          .        C64o........................
              .           .
              .           .
3829          .           .-------> D64oPT
3826          .        D64o
              .           V
              .           V
3832          .       R64oW
              .           .
              .           .
3838          .           .         68o
              .           .           V
              .           .           V
3845          .           .        S68o
              .           .           .
              .           .           .
3853          .           .           .           .<-------   D68mP
3851          .           .           .      BD68mP
              .           .           .           V
              .           .           .           V
3854          .           .           .       P68mS
              .           .           .           .
              .           .           .           .
3859          .           .           .           .           .<-------   D68mS
3857          .           .           .           .      BD68mS
              .           .           .           .           V
              .           .           .           .           V
3860          .           .           .           .       R68mS
              .           .           .           .           .
              .           .           .           .           .
3866          .           .           .       C68mS............
              .           .           .           .
              .           .           .           .
3869          .        C68o........................
              .           .
              .           .
3875          .           .-------> D68oPT
3872          .        D68o
              .           V
              .           V
3878          .       R68oW
              .           .
              .           .
3884          .           .         72o
              .           .           .
              .           .           .
3891       C72o........................
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                .
                .
3896            .-------> D72oP
3894         D72o
                V
                V
3899         S72o
                .
                .
3907            .-------> D72o1
3905       D72oPT
                V
                V
3910       PT72oE
                .
                .
3915            .          .<-------  D68oPT
3913            .      B68oPT
                .          .
                .          .
3916       CPT68o............
                V
                V
3919       PT68oE
                .
                .
3924            .          .<-------  D72o1
3922            .      BD72o1
                .          .
                .          .
3928            .          .-------> D72oW
3925            .       D72oE
                .          V
                .          V
3931            .       S-I10
                .          .
                .          .
3941            .          .          .<-------  D64oPT
3939            .          .      B64oPT
                .          .          .
                .          .          .
3944            .          .          .          .<-------  D60oPT
3942            .          .          .      B60oPT
                .          .          .          V
                .          .          .          V
3945            .          .          .      PT60oW
                .          .          .          .
                .          .          .          .
3948         C-WT...................................
                V
                V
3952        PT64o
                .
                .
3957            .-------> DPT64o
3955       DN_64o
                .
                .
3960            .        36q
                .          .
                .          .
3969            .          .          .<-------    D32q
3967            .          .      BD32q
                .          .          V
                .          .          V
3970            .          .      R32qS
                .          .          .
                .          .          .
3978            .          .          .          .<-------  D36pP2
3976            .          .          .      B36pP2
                .          .          .          V
                .          .          .          V
3979            .          .          .       P36pS
                .          .          .          .
                .          .          .          .
3983            .       C36q........................
                .          .
                .          .
3988            .          .-------> D36qP
3986            .       D36q
                .          .
                .          .
3993            .          .-------> D36qS
3991            .      D36qW
                .          V
                .          V
```

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3996          .       R36qW
              .           .
              .           .
4002          .           .         40q
              .           .           .
              .           .           .
4009          .        C40q............
              .           .
              .           .
4014          .           .-------->   D40qP
4012          .        D40q
              .           .
              .           .
4019          .           .-------->   D40qS
4017          .       D40qW
              .           V
              .           V
4022          .       R40qW
              .           .
              .           .
4030          .           .           .<-------   D40qP
4028          .           .      BD40qP
              .           .           V
              .           .           V
4031          .           .       P40qW
              .           .           .
              .           .           .
4034          .       C40qW............
              .           .
              .           .
4037          .           .         44q
              .           .           .
              .           .           .
4046          .           .           .           .<-------  D44pP2
4044          .           .           .      B44pP2
              .           .           .           V
              .           .           .           V
4047          .           .           .       P44pS
              .           .           .           .
              .           .           .           .
4050          .        C44q........................
              .           .
              .           .
4055          .           .-------->   D44qP
4053          .        D44q
              .           .
              .           .
4060          .           .-------->   D44qS
4058          .       D44qW
              .           V
              .           V
4063          .       R44qW
              .           .
              .           .
4069          .           .         48q
              .           .           .
              .           .           .
4076          .        C48q............
              .           .
              .           .
4082          .           .-------->  D48qPT
4079          .       DB48q
              .           V
              .           V
4085          .        S48q
              .           .
              .           .
4093          .           .-------->   D48qS
4091          .       D48qW
              .           V
              .           V
4096          .       R48qW
              .           .
              .           .
4102          .           .         52q
              .           .           .
              .           .           .
4109          .        C52q............
              .           .
              .           .
4114          .           .-------->   D52qP
4112          .        D52q
              .           .
              .           .
4119          .           .-------->   D52qS
4117          .       D52qW
```

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                .           V
                .           V
4122            .       R52qW
                .           .
                .           .
4128            .           .         56q
                .           .           :
                .           .           .
4135            .        C56q............
                .           .
                .           .
4140            .           .-------->   D56qP
4138            .        D56q
                .           .
                .           .
4145            .           .-------->   D56qS
4143            .       D56qW
                .           V
                .           V
4148            .       R56qW
                .           .
                .           .
4154            .           .         60q
                .           .           .
                .           .           .
4161            .        C60q............
                .           .
                .           .
4166            .           .-------->   D60qP
4164            .        D60q
                .           .
                .           .
4171            .           .-------->   D60qS
4169            .       D60qW
                .           V
                .           V
4174            .       R60qW
                .           .
                .           .
4180            .           .         64q
                .           .           .
                .           .           .
4187         C64q........................
                .
                .
4193            .-------->  D64qPT
4190         D64q
                .
                .
4198            .-------->   D64qP
4196        D64q1
                .
                .
4203            .-------->   D64qS
4201        D64qW
                V
                V
4206        R64qW
                .
                .
4214            .           .<--------   D64qP
4212            .      BD64qP
                .           V
                .           V
4215            .       P64qW
                .           .
                .           .
4218        C64qW............
                .
                .
4221            .         68q
                .           .
                .           .
4228         C68q............
                .
                .
4233            .-------->   D68qP
4231         D68q
                .
                .
4238            .-------->   D68qS
4236        D68qW
                V
                V
4241        R68qW
                .
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                .
4249            .           .<-------   D68qP
4247            .      BD68qP
                .           V
                .           V
4250            .       P68qW
                .           .
                .           .
4253        C68qW............
                .
                .
4256            .         72q
                .           .
                .           .
4265            .           .           .<-------   D72oP
4263            .           .       B72oP
                .           .           V
                .           .           V
4266            .           .       P72oS
                .           .           .
                .           .           .
4269         C72q........................
                .
                .
4274            .------->   D72qP
4272         D72q
                .
                .
4279            .------->   D72qS
4277        D72qW
                V
                V
4282        R72qW
                .
                .
4288            .         80o
                .           .
                .           .
4297            .           .           .<-------   D84mP
4295            .           .      BD84mP
                .           .           V
                .           .           V
4298            .           .       P84mS
                .           .           .
                .           .           .
4303            .           .           .           .<-------   D84mS
4301            .           .           .      BD84mS
                .           .           .           V
                .           .           .           V
4304            .           .           .       R84mS
                .           .           .           .
                .           .           .           .
4310            .           .       C84mS............
                .           .           .
                .           .           .
4315            .           .           .           .<-------   D80mS
4313            .           .           .      BD80mS
                .           .           .           V
                .           .           .           V
4316            .           .           .       R80mS
                .           .           .           .
                .           .           .           .
4322            .        C80o........................
                .           .
                .           .
4327            .           .------->   DB80o
4325            .        E80o
                .           .
                .           .
4332            .           .           .<-------   DB80o
4330            .           .      BDB80o
                .           .           V
                .           .           V
4333            .           .        S80o
                .           .           .
                .           .           .
4339            .       CC80o............
                .           .
                .           .
4344            .           .------->   D80oP
4342            .        D80o
                .           V
                .           V
4347            .       R80oS
                .           .
                .           .
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4353          .           .         76o
              .           .           .
              .           .           .
4362          .           .           .          .<-------    D76m
4360          .           .           .      BD76m
              .           .           .          V
              .           .           .          V
4363          .           .           .      R76mS
              .           .           .          .
              .           .           .          .
4371          .           .           .          .           .<-------  D76mP2
4369          .           .           .          .      B76mP2
              .           .           .          .           V
              .           .           .          .           V
4372          .           .           .          .       P76mS
              .           .           .          .           .
              .           .           .          .           .
4375          .           .           .      C76mS............
              .           .           .          .
              .           .           .          .
4380          .           .           .          .           .<-------   D72oW
4378          .           .           .          .      BD72oW
              .           .           .          .           V
              .           .           .          .           V
4381          .           .           .          .       R72oW
              .           .           .          .           .
              .           .           .          .           .
4387          .        C76o...................................
              .           .
              .           .
4392          .           .------->    D76o
4390          .       D76oP
              .           V
              .           V
4395          .       P76oS
              .           .
              .           .
4400          .           .           .<-------    D76o
4398          .           .       BD76o
              .           .           .
              .           .           .
4403          .           .           .------->   D76oW
4401          .           .       D76oS
              .           .           V
              .           .           V
4406          .           .       R76oS
              .           .           .
              .           .           .
4412          .       C76oS............
              .           .
              .           .
4415          .           .         76q
              .           .           .
              .           .           .
4422       C76q........................
              .
              .
4427          .------->   D76qP
4425       D76q
              .
              .
4432          .------->   D76qS
4430      D76qW
              V
              V
4435      R76qW
              .
              .
4441          .         80p
              .           .
              .           .
4450          .           .           .<-------   D76oW
4448          .           .      BD76oW
              .           .           V
              .           .           V
4451          .           .       R76oW
              .           .           .
              .           .           .
4457          .       C80p............
              .           V
              .           V
4460          .       S80p
              .           .
              .           .
4468          .           .           .<-------   D80oP
4466          .           .      BD80oP
```

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                .           .           V
                .           .           V
4469            .           .       P80oS
                .           .           .
                .           .           .
4472            .       CC80p............
                .           .
                .           .
4477            .           .------->   D80pP
4475            .        D80p
                .           V
                .           V
4480            .       R80pS
                .           .
                .           .
4488            .           .           .<-------   D80pP
4486            .           .      BD80pP
                .           .           V
                .           .           V
4489            .           .       P80pS
                .           .           .
                .           .           .
4492            .       C80pS............
                .           .
                .           .
4495            .           .         80q
                .           .           .
                .           .           .
4502        C80q........................
                .
                .
4505            .         28s
                .           .
                .           .
4514            .           .           .<-------   D28qP
4512            .           .      BD28qP
                .           .           .
                .           .           .
4517            .           .           .------->  D28qP2
4515            .           .      D28qP1
                .           .           V
                .           .           V
4520            .           .       P28qS
                .           .           .
                .           .           .
4525            .           .           .           .<-------   D28qS
4523            .           .           .      BD28qS
                .           .           .           V
                .           .           .           V
4526            .           .           .       R28qS
                .           .           .           .
                .           .           .           .
4532            .           .       C28qS............
                .           .           .
                .           .           .
4535            .        C28s............
                .           .
                .           .
4540            .           .------->   D28sP
4538            .        D28s
                .           .
                .           .
4545            .           .------->   D28sS
4543            .       D28sW
                .           V
                .           V
4548            .       R28sW
                .           .
                .           .
4554            .           .         32s
                .           .           .
                .           .           .
4561            .        C32s............
                .           V
                .           V
4564            .       S32s
                .           .
                .           .
4572            .           .------->   D32sP
4570            .        D32s
                .           V
                .           V
4575            .       R32sW
                .           .
                .           .
4583            .           .           .<-------   D32sP
```

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4581          .           .      BD32sP
              .           .           V
              .           .           V
4584          .           .       P32sW
              .           .           .
              .           .           .
4587          .       C32sW............
              .           .
              .           .
4590          .           .         36s
              .           .           .
              .           .           .
4599          .           .           .           .<-------   D36qP
4597          .           .           .      BD36qP
              .           .           .           V
              .           .           .           V
4600          .           .           .       P36qS
              .           .           .           .
              .           .           .           .
4605          .           .           .           .           .<-------   D36qS
4603          .           .           .           .      BD36qS
              .           .           .           .           V
              .           .           .           .           V
4606          .           .           .           .       R36qS
              .           .           .           .           .
              .           .           .           .           .
4612          .           .           .       C36qS............
              .           .           .           .
              .           .           .           .
4615          .       C36s......................
              .           .
              .           .
4620          .           .-------->   D36sP
4618          .       D36s
              .           V
              .           V
4623          .       R36sW
              .           .
              .           .
4629          .           .         40s
              .           .           .
              .           .           .
4638          .           .           .           .<-------   D40qS
4636          .           .           .      BD40qS
              .           .           .           V
              .           .           .           V
4639          .           .           .       R40qS
              .           .           .           .
              .           .           .           .
4645          .       C40s......................
              .           .
              .           .
4650          .           .-------->   D40sP
4648          .       D40s
              .           V
              .           V
4653          .       R40sW
              .           .
              .           .
4661          .           .           .<-------   D40sP
4659          .           .      BD40sP
              .           .           V
              .           .           V
4662          .           .       P40sW
              .           .           .
              .           .           .
4665          .       C40sW............
              .           .
              .           .
4668          .           .         44s
              .           .           .
              .           .           .
4677          .           .           .           .<-------   D44qP
4675          .           .           .      BD44qP
              .           .           .           V
              .           .           .           V
4678          .           .           .       P44qS
              .           .           .           .
              .           .           .           .
4683          .           .           .           .           .<-------   D44qS
4681          .           .           .           .      BD44qS
              .           .           .           .           V
              .           .           .           .           V
4684          .           .           .           .       R44qS
              .           .           .           .           .
              .           .           .           .           .
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4690          .           .           .       C44qS............
              .           .           .           .
              .           .           .           .
4693          .        C44s........................
              .           .
              .           .
4698          .           .-------->   D44sP
4696          .        D44s
              .           V
              .           V
4701          .       R44sW
              .           .
              .           .
4707          .           .         48s
              .           .           .
              .           .           .
4716          .           .           .           .<-------   D48qS
4714          .           .           .      BD48qS
              .           .           .           V
              .           .           .           V
4717          .           .           .       R48qS
              .           .           .           .
              .           .           .           .
4723          .        C48s........................
              .           .
              .           .
4729          .           .-------->  D48sPT
4726          .       DB48s
              .           V
              .           V
4732          .        S48s
              .           V
              .           V
4738          .       R48sW
              .           .
              .           .
4744          .           .         52s
              .           .           .
              .           .           .
4753          .           .           .           .<-------   D52qP
4751          .           .           .      BD52qP
              .           .           .           V
              .           .           .           V
4754          .           .           .       P52qS
              .           .           .           .
              .           .           .           .
4759          .           .           .           .           .<-------   D52qS
4757          .           .           .           .      BD52qS
              .           .           .           .           V
              .           .           .           .           V
4760          .           .           .           .       R52qS
              .           .           .           .           .
              .           .           .           .           .
4766          .           .           .       C52qS............
              .           .           .           .
              .           .           .           .
4769          .        C52s........................
              .           .
              .           .
4774          .           .-------->   D52sP
4772          .        D52s
              .           V
              .           V
4777          .       R52sW
              .           .
              .           .
4783          .           .         56s
              .           .           .
              .           .           .
4792          .           .           .           .<-------   D56qP
4790          .           .           .      BD56qP
              .           .           .           V
              .           .           .           V
4793          .           .           .       P56qS
              .           .           .           .
              .           .           .           .
4798          .           .           .           .           .<-------   D56qS
4796          .           .           .           .      BD56qS
              .           .           .           .           V
              .           .           .           .           V
4799          .           .           .           .       R56qS
              .           .           .           .           .
              .           .           .           .           .
4805          .           .           .       C56qS............
              .           .           .           .
              .           .           .           .
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4808          .        C56s.......................
              .           .
              .           .
4813          .           .-------->   D56sP
4811          .        D56s
              .           .
              .           .
4818          .           .-------->   D56sS
4816          .      D56sW
              .          V
              .          V
4821          .      R56sW
              .           .
              .           .
4827          .           .         60s
              .           .           .
              .           .           .
4836          .           .           .           .<--------   D60qP
4834          .           .           .      BD60qP
              .           .           .           V
              .           .           .           V
4837          .           .           .       P60qS
              .           .           .           .
              .           .           .           .
4842          .           .           .           .           .<--------   D60qS
4840          .           .           .           .      BD60qS
              .           .           .           .           V
              .           .           .           .           V
4843          .           .           .           .       R60qS
              .           .           .           .           .
              .           .           .           .           .
4849          .           .           .       C60qS............
              .           .           .           .
              .           .           .           .
4852          .        C60s.......................
              .           .
              .           .
4857          .           .-------->   D60sP
4855          .        D60s
              .           .
              .           .
4862          .           .-------->   D60sS
4860          .      D60sW
              .          V
              .          V
4865          .      R60sW
              .           .
              .           .
4873          .           .           .<--------   D60sP
4871          .           .      BD60sP
              .           .           V
              .           .           V
4874          .           .       P60sW
              .           .           .
              .           .           .
4877          .      C60sW............
              .           .
              .           .
4880          .           .         64s
              .           .           .
              .           .           .
4889          .           .           .           .<--------   D64qS
4887          .           .           .      BD64qS
              .           .           .           V
              .           .           .           V
4890          .           .           .       R64qS
              .           .           .           .
              .           .           .           .
4896          .        C64s.......................
              .           .
              .           .
4902          .           .-------->  D64sPT
4899          .        D64s
              .           .
              .           .
4908          .           .-------->   D64sP
4905          .      D64s1
              .           .
              .           .
4913          .           .-------->   D64sS
4911          .      D64sW
              .          V
              .          V
4916          .      R64sW
              .           .
              .           .
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4922          .           .         68s
              .           .           .
              .           .           .
4931          .           .           .           .<-------   D68qS
4929          .           .           .      BD68qS
              .           .           .           V
              .           .           .           V
4932          .           .           .       R68qS
              .           .           .           .
              .           .           .           .
4938          .        C68s.......................
              .           .
              .           .
4943          .           .------->   D68sP
4941          .        D68s
              .           .
              .           .
4948          .           .------->   D68sS
4946          .       D68sW
              .           V
              .           V
4951          .       R68sW
              .           .
              .           .
4957          .           .         72s
              .           .           .
              .           .           .
4967          .           .           .           .<-------   D72qP
4964          .           .           .      BD72qP
              .           .           .           .
              .           .           .           .
4970          .           .           .           .------->  D72qP2
4968          .           .           .      D72qP1
              .           .           .           V
              .           .           .           V
4973          .           .           .      P72qS1
              .           .           .           .
              .           .           .           .
4978          .           .           .           .           .<-------  D72qP2
4976          .           .           .           .      B72qP2
              .           .           .           .           V
              .           .           .           .           V
4979          .           .           .           .      P72qS2
              .           .           .           .           .
              .           .           .           .           .
4984          .           .           .           .           .           .<-------   D72qS
4982          .           .           .           .           .      BD72qS
              .           .           .           .           .           V
              .           .           .           .           .           V
4985          .           .           .           .           .       R72qS
              .           .           .           .           .           .
              .           .           .           .           .           .
4991          .           .           .       C72qS.......................
              .           .           .           .
              .           .           .           .
4994          .        C72s.......................
              .           .
              .           .
4999          .           .------->   D72sP
4997          .        D72s
              .           .
              .           .
5004          .           .------->   D72sS
5002          .       D72sW
              .           V
              .           V
5007          .       R72sW
              .           .
              .           .
5013          .           .         76s
              .           .           V
              .           .           V
5020          .           .        S76s
              .           .           .
              .           .           .
5028          .           .           .           .<-------   D76qP
5026          .           .           .      BD76qP
              .           .           .           V
              .           .           .           V
5029          .           .           .       P76qS
              .           .           .           .
              .           .           .           .
5034          .           .           .           .           .<-------   D76qS
5032          .           .           .           .      BD76qS
              .           .           .           .           V
              .           .           .           .           V
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5035          .           .           .           .       R76qS
              .           .           .           .           .
              .           .           .           .           .
5041          .           .           .       C76qS............
              .           .           .           .
              .           .           .           .
5044          .        C76s........................
              .           .
              .           .
5049          .           .-------->   D76sP
5047          .        D76s
              .           .
              .           .
5054          .           .-------->   D76sS
5052          .       D76sW
              .           V
              .           V
5057          .       R76sW
              .           .
              .           .
5063       CC80q............
              .
              .
5068          .-------->   D80qP
5066        D80q
              .
              .
5073          .-------->   D80qW
5071       D80qS
              V
              V
5076       R80qS
              .
              .
5084          .           .<--------   D80qP
5082          .      BD80qP
              .           V
              .           V
5085          .       P80qS
              .           .
              .           .
5088       C80qS............
              .
              .
5091          .         52t
              .           V
              .           V
5098          .        S52t
              .           .
              .           .
5106          .           .           .<--------   D52sP
5104          .           .      BD52sP
              .           .           V
              .           .           V
5107          .           .       P52sS
              .           .           .
              .           .           .
5110          .        C52t............
              .           .
              .           .
5115          .           .-------->   D52tP
5113          .        D52t
              .           .
              .           .
5120          .           .-------->   D52tS
5118          .       D52tW
              .           V
              .           V
5123          .       R52tW
              .           .
              .           .
5129          .           .         56t
              .           .           .
              .           .           .
5138          .           .           .           .<--------   D56sP
5136          .           .           .      BD56sP
              .           .           .           V
              .           .           .           V
5139          .           .           .       P56sS
              .           .           .           .
              .           .           .           .
5144          .           .           .           .           .<--------   D56sS
5142          .           .           .           .      BD56sS
              .           .           .           .           V
              .           .           .           .           V
5145          .           .           .           .       R56sS
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                .          .          .          .          .
                .          .          .          .          .
5151            .          .          .      C56sS...........
                .          .          .          .
                .          .          .          .
5154            .       C56t......................
                .          .
                .          .
5159            .          .-------->  D56tP
5157            .       D56t
                .          .
                .          .
5164            .          .-------->  D56tS
5162            .      D56tW
                .          V
                .          V
5167            .      R56tW
                .          .
                .          .
5173            .          .        60t
                .          .          V
                .          .          V
5180            .          .       S60t
                .          .          .
                .          .          .
5188            .          .          .          .<-------   D60sS
5186            .          .          .     BD60sS
                .          .          .          V
                .          .          .          V
5189            .          .          .      R60sS
                .          .          .          .
                .          .          .          .
5195            .       C60t......................
                .          .
                .          .
5200            .          .-------->  D60tS
5198            .      D60tW
                .          V
                .          V
5203            .      R60tW
                .          .
                .          .
5209            .          .        64t
                .          .          .
                .          .          .
5218            .          .          .          .<-------   D64sP
5216            .          .          .     BD64sP
                .          .          .          V
                .          .          .          V
5219            .          .          .      P64sS
                .          .          .          .
                .          .          .          .
5225            .          .          .          .          .<-------   D64sS
5223            .          .          .          .     BD64sS
                .          .          .          .          V
                .          .          .          .          V
5226            .          .          .          .      R64sS
                .          .          .          .          .
                .          .          .          .          .
5232            .          .          .      C64sS...........
                .          .          .          .
                .          .          .          .
5235            .       C64t......................
                .          .
                .          .
5240            .          .-------->  D64tPT
5238            .       D64t
                .          .
                .          .
5245            .          .-------->  D64tP
5243            .      D64t1
                .          .
                .          .
5250            .          .-------->  D64tS
5248            .      D64tW
                .          V
                .          V
5253            .      R64tW
                .          .
                .          .
5259            .          .        68t
                .          .          .
                .          .          .
5268            .          .          .          .<-------   D68sP
5266            .          .          .     BD68sP
                .          .          .          V
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                .           .           .           V
5269            .           .           .       P68sS
                .           .           .           .
                .           .           .           .
5274            .           .           .           .           .<-------   D68sS
5272            .           .           .           .      BD68sS
                .           .           .           .           V
                .           .           .           .           V
5275            .           .           .           .       R68sS
                .           .           .           .           .
                .           .           .           .           .
5281            .           .           .       C68sS............
                .           .           .           .
                .           .           .           .
5284            .        C68t........................
                .           .
                .           .
5289            .           .------->   D68tP
5287            .        D68t
                .           .
                .           .
5294            .           .------->   D68tS
5292            .       D68tW
                .           V
                .           V
5297            .       R68tW
                .           .
                .           .
5303            .           .         72t
                .           .           .
                .           .           .
5312            .           .           .           .<-------   D72sS
5310            .           .           .      BD72sS
                .           .           .           V
                .           .           .           V
5313            .           .           .       R72sS
                .           .           .           .
                .           .           .           .
5321            .           .           .           .           .<-------   D72sP
5319            .           .           .           .      BD72sP
                .           .           .           .           .
                .           .           .           .           .
5324            .           .           .           .           .------->  D72sP2
5322            .           .           .           .      D72sP1
                .           .           .           .           V
                .           .           .           .           V
5327            .           .           .           .      P72sS1
                .           .           .           .           .
                .           .           .           .           .
5332            .           .           .           .           .           .<-------  D72sP2
5330            .           .           .           .           .      B72sP2
                .           .           .           .           .           V
                .           .           .           .           .           V
5333            .           .           .           .           .      P72sS2
                .           .           .           .           .           .
                .           .           .           .           .           .
5336            .           .           .       C72sS........................
                .           .           .           .
                .           .           .           .
5339            .        C72t........................
                .           .
                .           .
5344            .           .------->   D72tP
5342            .        D72t
                .           .
                .           .
5349            .           .------->   D72tS
5347            .       D72tW
                .           V
                .           V
5352            .       R72tW
                .           .
                .           .
5358            .           .         76t
                .           .           .
                .           .           .
5367            .           .           .           .<-------   D76sP
5365            .           .           .      BD76sP
                .           .           .           V
                .           .           .           V
5368            .           .           .       P76sS
                .           .           .           .
                .           .           .           .
5373            .           .           .           .           .<-------   D76sS
5371            .           .           .           .      BD76sS
                .           .           .           .           V
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                .           .           .           .           V
5374            .           .           .           .       R76sS
                .           .           .           .           .
                .           .           .           .           .
5380            .           .           .       C76sS............
                .           .           .           .
                .           .           .           .
5383            .        C76t........................
                .           .
                .           .
5388            .           .-------->   D76tP
5386            .        D76t
                .           .
                .           .
5393            .           .-------->   D76tS
5391            .       D76tW
                .           V
                .           V
5396            .       R76tW
                .           .
                .           .
5402            .           .         80t
                .           .           .
                .           .           .
5409         C80t........................
                .
                .
5414            .-------->   D80tP
5412         D80t
                V
                V
5417        R80tS
                .
                .
5423            .         52u
                .           .
                .           .
5432            .           .           .<--------   D52tS
5430            .           .      BD52tS
                .           .           V
                .           .           V
5433            .           .       R52tS
                .           .           .
                .           .           .
5439            .        C52u............
                .           V
                .           V
5442            .        S52u
                .           .
                .           .
5451            .           .           .<--------   D52tP
5449            .           .      BD52tP
                .           .           V
                .           .           V
5452            .           .       P52tS
                .           .           .
                .           .           .
5455            .       CC52u............
                .           .
                .           .
5460            .           .-------->   D52uP
5458            .        D52u
                .           .
                .           .
5465            .           .-------->   D52uS
5463            .       D52uW
                .           V
                .           V
5468            .       R52uW
                .           .
                .           .
5474            .           .         56u
                .           .           .
                .           .           .
5483            .           .           .           .<--------   D56tS
5481            .           .           .      BD56tS
                .           .           .           V
                .           .           .           V
5484            .           .           .       R56tS
                .           .           .           .
                .           .           .           .
5490            .        C56u........................
                .           V
                .           V
5493            .        S56u
                .           .
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.           .
5502        .           .<-------   D56tP
5500        .           .      BD56tP
            .           .           V
            .           .           V
5503        .           .       P56tS
            .           .           .
            .           .           .
5506        .       CC56u............
            .           .
            .           .
5511        .           .------->   D56uP
5509        .        D56u
            .           .
            .           .
5516        .           .------->   D56uS
5514        .       D56uW
            .           V
            .           V
5519        .       R56uW
            .           .
            .           .
5525        .           .         60u
            .           .           .
            .           .           .
5534        .           .           .           .<-------   D60tS
5532        .           .           .      BD60tS
            .           .           .           V
            .           .           .           V
5535        .           .           .       R60tS
            .           .           .           .
            .           .           .           .
5541        .        C60u........................
            .           V
            .           V
5544        .        S60u
            .           .
            .           .
5552        .           .------->   D60uP
5550        .        D60u
            .           .
            .           .
5557        .           .------->   D60uS
5555        .       D60uW
            .           V
            .           V
5560        .       R60uW
            .           .
            .           .
5566        .           .         64u
            .           .           .
            .           .           .
5575        .           .           .           .<-------   D64tP
5573        .           .           .      BD64tP
            .           .           .           V
            .           .           .           V
5576        .           .           .       P64tS
            .           .           .           .
            .           .           .           .
5582        .           .           .           .           .<-------   D64tS
5580        .           .           .           .      BD64tS
            .           .           .           .           V
            .           .           .           .           V
5583        .           .           .           .       R64tS
            .           .           .           .           .
            .           .           .           .           .
5589        .           .           .       C64tS............
            .           .           .           .
            .           .           .           .
5592        .        C64u........................
            .           .
            .           .
5597        .           .------->  D64uPT
5595        .        D64u
            .           .
            .           .
5602        .           .------->   D64uP
5600        .       D64u1
            .           .
            .           .
5607        .           .------->   D64uS
5605        .       D64uW
            .           V
            .           V
5610        .       R64uW
            .           .
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                .           .
5616            .           .         68u
                .           .           .
                .           .           .
5625            .           .           .           .<-------   D68tP
5623            .           .           .      BD68tP
                .           .           .           V
                .           .           .           V
5626            .           .           .       P68tS
                .           .           .           .
                .           .           .           .
5631            .           .           .           .           .<-------   D68tS
5629            .           .           .           .      BD68tS
                .           .           .           .           V
                .           .           .           .           V
5632            .           .           .           .       R68tS
                .           .           .           .           .
                .           .           .           .           .
5638            .           .           .       C68tS............
                .           .           .           .
                .           .           .           .
5641            .        C68u........................
                .           .
                .           .
5646            .           .------->   D68uP
5644            .        D68u
                .           .
                .           .
5651            .           .------->   D68uS
5649            .       D68uW
                .           V
                .           V
5654            .       R68uW
                .           .
                .           .
5660            .           .         72u
                .           .           .
                .           .           .
5667            .        C72u............
                .           .
                .           .
5672            .           .           .<-------   D72tP
5670            .           .      BD72tP
                .           .           .
                .           .           .
5675            .           .           .------->  D72tP2
5673            .           .      D72tP1
                .           .           V
                .           .           V
5678            .           .      P72tS1
                .           .           .
                .           .           .
5683            .           .           .           .<-------  D72tP2
5681            .           .           .      B72tP2
                .           .           .           V
                .           .           .           V
5684            .           .           .      P72tS2
                .           .           .           .
                .           .           .           .
5689            .           .           .           .           .<-------   D72tS
5687            .           .           .           .       B72tS
                .           .           .           .           V
                .           .           .           .           V
5690            .           .           .           .       R72tS
                .           .           .           .           .
                .           .           .           .           .
5696            .           .       C72tS........................
                .           .           .
                .           .           .
5699            .       CC72u............
                .           .
                .           .
5704            .           .------->   D72uP
5702            .        D72u
                .           .
                .           .
5709            .           .------->   D72uS
5707            .       D72uW
                .           V
                .           V
5712            .       R72uW
                .           .
                .           .
5720            .           .           .<-------   D76tP
5718            .           .      BD76tP
                .           .           .
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                .           .           .
5723            .           .           .-------> D76tP2
5721            .           .      D76tP1
                .           .           V
                .           .           V
5726            .           .      P76tS1
                .           .           .
                .           .           .
5731            .           .           .           .<-------  D76tP2
5729            .           .           .      B76tP2
                .           .           .           V
                .           .           .           V
5732            .           .           .      P76tS2
                .           .           .           .
                .           .           .           .
5737            .           .           .           .           .<-------   D76tS
5735            .           .           .           .      BD76tS
                .           .           .           .           V
                .           .           .           .           V
5738            .           .           .           .       R76tS
                .           .           .           .           .
                .           .           .           .           .
5744            .           .       C76tS.......................
                .           .           .
                .           .           .
5747            .           .           .         76u
                .           .           .           .
                .           .           .           .
5754            .        C76u........................
                .           .
                .           .
5759            .           .------->   D76uP
5757            .        D76u
                .           .
                .           .
5764            .           .------->   D76uS
5762            .       D76uW
                .           V
                .           V
5767            .       R76uW
                .           .
                .           .
5773            .           .         80u
                .           .           .
                .           .           .
5780         C80u........................
                .
                .
5785            .           .<-------   D80tP
5783            .      BD80tP
                .           V
                .           V
5786            .       P80tS
                .           .
                .           .
5791            .           .           .<-------   D80qW
5789            .           .      BD80qW
                .           .           .
                .           .           .
5792         CC80u........................
                V
                V
5795         S-I17
                .
                .
5804            .------->   D80uP
5802         D80u
                V
                V
5807         R80uW
                .
                .
5813            .         84t
                .           .
                .           .
5820            .           .       P84tN
                .           .           .
                .           .           .
5828            .        C84t............
                .           .
                .           .
5833            .           .------->   D84tP
5831            .        D84t
                .           .
                .           .
5838            .           .------->   D84tW
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5836          .       D84tS
              .           V
              .           V
5841          .       R84tS
              .           .
              .           .
5847          .           .         84u
              .           .           .
              .           .           .
5854       C84u.......................
              V
              V
5857       S84u
              .
              .
5865          .           .<-------   D84tP
5863          .      BD84tP
              .           V
              .           V
5866          .       P84tS
              .           .
              .           .
5869      CC84u............
              .
              .
5874          .------->   D84uP
5872       D84u
              .
              .
5879          .------->   D84uS
5877      D84uW
              V
              V
5882      R84uW
              .
              .
5888          .         88t
              .           .
              .           .
5897          .           .           .<-------   D84tW
5895          .           .      BD84tW
              .           .           V
              .           .           V
5898          .           .       R84tW
              .           .           .
              .           .           .
5904          .        C88t............
              .           .
              .           .
5909          .           .------->   D88tW
5907          .       D88tS
              .           V
              .           V
5912          .       R88tS
              .           .
              .           .
5918          .           .         88u
              .           .           .
              .           .           .
5925       C88u.......................
              .
              .
5930          .------->   D88uP
5928       D88u
              .
              .
5935          .------->   D88uS
5933      D88uW
              V
              V
5938      R88uW
              .
              .
5946          .           .<-------   D88uP
5944          .      BD88uP
              .           V
              .           V
5947          .       P88uW
              .           .
              .           .
5950      C88uW............
              .
              .
5953          .         92t
              .           .
              .           .
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5962          .           .           .<-------   D88tW
5960          .           .      BD88tW
              .           .           V
              .           .           V
5963          .           .       R88tW
              .           .           .
              .           .           .
5969          .        C92t............
              .           V
              .           V
5972          .       R92tS
              .           .
              .           .
5978          .           .         92u
              .           .           .
              .           .           .
5985          .           .           .       P92uN
              .           .           .           .
              .           .           .           .
5993       C92u...................................
              .
              .
5998          .------->   D92uP
5996       D92u
              V
              V
6001       R92uS
              .
              .
6009          .           .<-------   D92uP
6007          .       B92uP
              .           V
              .           V
6010          .       P92uS
              .           .
              .           .
6013       C92uS............
              .
              .
6016          .         76v
              .           .
              .           .
6025          .           .           .<-------   D76uP
6023          .           .       B76uP
              .           .           .
              .           .           .
6028          .           .           .------->  D76uP1
6026          .           .      D76uP2
              .           .           V
              .           .           V
6031          .           .      P76uS2
              .           .           .
              .           .           .
6036          .           .           .           .<-------   D76uS
6034          .           .           .      BD76uS
              .           .           .           V
              .           .           .           V
6037          .           .           .       R76uS
              .           .           .           .
              .           .           .           .
6043          .           .       C76uS............
              .           .           .
              .           .           .
6046          .        C76v............
              .           .
              .           .
6051          .           .------->   D76vP
6049          .        D76v
              .           .
              .           .
6056          .           .------->   D76vS
6054          .       D76vW
              .           V
              .           V
6059          .       R76vW
              .           .
              .           .
6065          .           .         80v
              .           .           .
              .           .           .
6074          .           .           .           .<-------  D76uP1
6072          .           .           .      B76uP1
              .           .           .           V
              .           .           .           V
6075          .           .           .      P76uS1
              .           .           .           .
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                .          .          .
6078            .       C80v.......................
                .          .
                .          .
6083            .          .-------->  D80vP
6081            .       D80v
                .          .
                .          .
6088            .          .-------->  D80vS
6086            .      D80vW
                .          V
                .          V
6091            .      R80vW
                .          .
                .          .
6097            .          .        84v
                .          .          .
                .          .          .
6106            .          .          .          .<-------   D80uP
6104            .          .          .     BD80uP
                .          .          .          V
                .          .          .          V
6107            .          .          .      P80uS
                .          .          .          .
                .          .          .          .
6110            .       C84v.......................
                .          .
                .          .
6115            .          .          .<-------   D84uP
6113            .          .     BD84uP
                .          .          V
                .          .          V
6116            .          .      P84uS
                .          .          .
                .          .          .
6121            .          .          .          .<-------   D84uS
6119            .          .          .     BD84uS
                .          .          .          V
                .          .          .          V
6122            .          .          .      R84uS
                .          .          .          .
                .          .          .          .
6128            .          .      C84uS............
                .          .          .
                .          .          .
6131            .      CC84v............
                .          .
                .          .
6137            .          .-------->  D84vP
6134            .       D84v
                .          .
                .          .
6142            .          .-------->  D84vS
6140            .      D84vW
                .          V
                .          V
6145            .      R84vW
                .          .
                .          .
6151            .          .        88v
                .          .          .
                .          .          .
6160            .          .          .          .<-------   D88uS
6158            .          .          .     BD88uS
                .          .          .          V
                .          .          .          V
6161            .          .          .      R88uS
                .          .          .          .
                .          .          .          .
6167            .       C88v.......................
                .          .
                .          .
6172            .          .-------->  D88vP
6170            .       D88v
                .          V
                .          V
6175            .      R88vW
                .          .
                .          .
6181            .          .        92v
                .          .          .
                .          .          .
6188         C92v.......................
                .
                .
6193            .-------->   D92v
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6191      D92vP
              V
              V
6196      P92vS
              .
              .
6199          .         88w
              .           .
              .           .
6208          .           .          .<-------   D88vP
6206          .           .     BD88vP
              .           .          V
              .           .          V
6209          .           .      P88vS
              .           .          .
              .           .          .
6212       C88w.......................
              .
              .
6215          .         44v
              .           .
              .           .
6224          .           .          .<-------   D44sP
6222          .           .     BD44sP
              .           .          V
              .           .          V
6225          .           .      P44sS
              .           .          .
              .           .          .
6228          .       C44v............
              .           .
              .           .
6233          .           .          .<-------  D48oPT
6231          .           .     B48oPT
              .           .          V
              .           .          V
6234          .           .      PT48o
              .           .          .
              .           .          .
6239          .           .          .          .<-------  D48qPT
6237          .           .          .     B48qPT
              .           .          .          .
              .           .          .          .
6240          .           .     CPT48q............
              .           .          V
              .           .          V
6243          .           .      PT48q
              .           .          .
              .           .          .
6248          .           .          .          .<-------  D48sPT
6246          .           .          .     B48sPT
              .           .          .          .
              .           .          .          .
6249          .           .     CPT48s............
              .           .          V
              .           .          V
6252          .           .      PT48s
              .           .          .
              .           .          .
6255          .           .          .        48v
              .           .          .          .
              .           .          .          .
6262          .           .       C48v............
              .           .          .
              .           .          .
6265          .      NUL48v............
              .           .
              .           .
6268          .           .        52v
              .           .          .
              .           .          .
6277          .           .          .          .<-------   D52uP
6275          .           .          .     BD52uP
              .           .          .          V
              .           .          .          V
6278          .           .          .      P52uS
              .           .          .          .
              .           .          .          .
6283          .           .          .          .          .<-------   D52uS
6281          .           .          .          .     BD52uS
              .           .          .          .          V
              .           .          .          .          V
6284          .           .          .          .      R52uS
              .           .          .          .          .
              .           .          .          .          .
6290          .           .          .      C52uS............
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                .         .         .         .
                .         .         .         .
6293            .         .      C52v...........
                .         .         .
                .         .         .
6296            .    NUL52v...........
                .         .
                .         .
6299            .         .      56v
                .         .         .
                .         .         .
6308            .         .         .         .<-------   D56uP
6306            .         .         .    BD56uP
                .         .         .         V
                .         .         .         V
6309            .         .         .     P56uS
                .         .         .         .
                .         .         .         .
6314            .         .         .         .           .<-------   D56uS
6312            .         .         .         .      BD56uS
                .         .         .         .           V
                .         .         .         .           V
6315            .         .         .         .      R56uS
                .         .         .         .           .
                .         .         .         .           .
6321            .         .         .     C56uS...........
                .         .         .         .
                .         .         .         .
6324            .         .      C56v...........
                .         .         .
                .         .         .
6327            .    NUL56v...........
                .         .
                .         .
6330            .         .      60v
                .         .         .
                .         .         .
6339            .         .         .         .<-------   D60uP
6337            .         .         .    BD60uP
                .         .         .         V
                .         .         .         V
6340            .         .         .     P60uS
                .         .         .         .
                .         .         .         .
6345            .         .         .         .           .<-------   D60uS
6343            .         .         .         .      BD60uS
                .         .         .         .           V
                .         .         .         .           V
6346            .         .         .         .      R60uS
                .         .         .         .           .
                .         .         .         .           .
6352            .         .         .     C60uS...........
                .         .         .         .
                .         .         .         .
6355            .         .      C60v...........
                .         .         .
                .         .         .
6358            .    NUL60v...........
                .         .
                .         .
6363            .         .         .<-------  DPT64o
6361            .         .    BPT64o
                .         .         .
                .         .         .
6366            .         .         .         .<-------  D64qPT
6364            .         .         .    B64qPT
                .         .         .         .
                .         .         .         .
6367            .         .    CPT64q...........
                .         .         V
                .         .         V
6370            .         .     PT64q
                .         .         .
                .         .         .
6375            .         .         .         .<-------  D64sPT
6373            .         .         .    B64sPT
                .         .         .         .
                .         .         .         .
6376            .         .    CPT64s...........
                .         .         V
                .         .         V
6379            .         .     PT64s
                .         .         .
                .         .         .
6384            .         .         .         .<-------  D64tPT
6382            .         .         .    B64tPT
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                .         .         .         .
                .         .         .         .
6385            .         .     CPT64t.........
                .         .         V
                .         .         V
6388            .         .      PT64t
                .         .         .
                .         .         .
6393            .         .         .         .<-------  D64uPT
6391            .         .         .     B64uPT
                .         .         .         .
                .         .         .         .
6394            .         .     CPT64u.........
                .         .         V
                .         .         V
6397            .         .     PT64u
                .         .         .
                .         .         .
6400            .         .         .       64v
                .         .         .         .
                .         .         .         .
6409            .         .         .         .           .<-------   D64uP
6407            .         .         .         .     BD64uP
                .         .         .         .           V
                .         .         .         .           V
6410            .         .         .         .      P64uS
                .         .         .         .           .
                .         .         .         .           .
6415            .         .         .         .           .           .<-------   D64uS
6413            .         .         .         .           .     BD64uS
                .         .         .         .           .           V
                .         .         .         .           .           V
6416            .         .         .         .           .      R64uS
                .         .         .         .           .           .
                .         .         .         .           .           .
6422            .         .         .         .      C64uS.........
                .         .         .         .           .
                .         .         .         .           .
6425            .         .      C64v.......................
                .         .         .
                .         .         .
6428            .    NUL64v.........
                .         .
                .         .
6431            .         .       68v
                .         .         .
                .         .         .
6440            .         .         .         .<-------   D68uP
6438            .         .         .     BD68uP
                .         .         .         V
                .         .         .         V
6441            .         .         .      P68uS
                .         .         .         .
                .         .         .         .
6446            .         .         .         .           .<-------   D68uS
6444            .         .         .         .     BD68uS
                .         .         .         .           V
                .         .         .         .           V
6447            .         .         .         .      R68uS
                .         .         .         .           .
                .         .         .         .           .
6453            .         .         .      C68uS.........
                .         .         .         .
                .         .         .         .
6456            .         .      C68v.........
                .         .         .
                .         .         .
6459            .    NUL68v.........
                .         .
                .         .
6462            .         .       72v
                .         .         .
                .         .         .
6471            .         .         .         .<-------   D72uP
6469            .         .         .     BD72uP
                .         .         .         .
                .         .         .         .
6474            .         .         .         .-------> D72uP2
6472            .         .         .     D72uP1
                .         .         .         V
                .         .         .         V
6477            .         .         .     P72uS1
                .         .         .         .
                .         .         .         .
6482            .         .         .         .           .<-------  D72uP2
6480            .         .         .         .     B72uP2
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                .         .         .         .         V
                .         .         .         .         V
6483            .         .         .         .     P72uS2
                .         .         .         .         .
                .         .         .         .         .
6488            .         .         .         .         .          .<-------   D72uS
6486            .         .         .         .         .     BD72uS
                .         .         .         .         .         V
                .         .         .         .         .         V
6489            .         .         .         .         .     R72uS
                .         .         .         .         .         .
                .         .         .         .         .         .
6495            .         .         .     C72uS.......................
                .         .         .         .
                .         .         .         .
6498            .         .       C72v............
                .         .         .
                .         .         .
6501            .     NUL72v............
                .         .
                .         .
6504            .         .       76w
                .         .         .
                .         .         .
6513            .         .         .         .<-------   D76vS
6511            .         .         .     BD76vS
                .         .         .         V
                .         .         .         V
6514            .         .         .      R76vS
                .         .         .         .
                .         .         .         .
6522            .         .         .         .         .<-------   D76vP
6520            .         .         .         .     BD76vP
                .         .         .         .         V
                .         .         .         .         V
6523            .         .         .         .      P76vS
                .         .         .         .         .
                .         .         .         .         .
6526            .         .         .     C76vS............
                .         .         .         .
                .         .         .         .
6529            .         .       C76w............
                .         .         .
                .         .         .
6532            .     NUL76w............
                .         .
                .         .
6535            .         .        80w
                .         .         .
                .         .         .
6544            .         .         .         .<-------   D80vS
6542            .         .         .     BD80vS
                .         .         .         V
                .         .         .         V
6545            .         .         .      R80vS
                .         .         .         .
                .         .         .         .
6551            .         .       C80w............
                .         .         .
                .         .         .
6554            .     NUL80w............
                .         .
                .         .
6559            .         .         .<-------   D84vS
6557            .         .     BD84vS
                .         .         V
                .         .         V
6560            .         .      R84vS
                .         .         .
                .         .         .
6568            .         .         .         .<-------   D84vP
6566            .         .         .     BD84vP
                .         .         .         .
                .         .         .         .
6571            .         .         .         .-------> D84vP2
6569            .         .         .     D84vP1
                .         .         .         V
                .         .         .         V
6574            .         .         .     P84vS1
                .         .         .         .
                .         .         .         .
6579            .         .         .         .         .<-------  D84vP2
6577            .         .         .         .     B84vP2
                .         .         .         .         V
                .         .         .         .         V
6580            .         .         .         .     P84vS2
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                .          .          .          .          .
                .          .          .          .          .
6583            .          .      C84vS.......................
                .          .          .
                .          .          .
6586            .          .          .        84w
                .          .          .          .
                .          .          .          .
6595            .          .          .          .          .<-------   D80vP
6593            .          .          .          .     BD80vP
                .          .          .          .          V
                .          .          .          .          V
6596            .          .          .          .      P80vS
                .          .          .          .          .
                .          .          .          .          .
6599            .          .      C84w........................
                .          .          .
                .          .          .
6602            .     NUL84w............
                .          .
                .          .
6605      NUL88w............
                .
                .
6608            .        24s
                .          V
                .          V
6615            .       S24s
                .          .
                .          .
6623            .          .          .<-------  D28qP2
6621            .          .     B28qP2
                .          .          V
                .          .          V
6624            .          .      P28qE
                .          .          .
                .          .          .
6627            .       C24s............
                .          .
                .          .
6632            .          .------->   D24sP
6630            .       D24s
                .          V
                .          V
6635            .      R24sS
                .          .
                .          .
6643            .          .          .<-------   D24sP
6641            .          .     BD24sP
                .          .          .
                .          .          .
6646            .          .          .------->  D24sPE
6644            .          .     D24sPS
                .          .          V
                .          .          V
6649            .          .      P24sS
                .          .          .
                .          .          .
6652            .      C24sS............
                .          .
                .          .
6655            .          .        24t
                .          .          .
                .          .          .
6662            .       C24t............
                .          V
                .          V
6665            .      S24t
                .          .
                .          .
6671            .          .        04s
                .          .          V
                .          .          V
6678            .          .       S04s
                .          .          V
                .          .          V
6685            .          .      R04sS
                .          .          .
                .          .          .
6691            .          .          .        08q
                .          .          .          V
                .          .          .          V
6698            .          .          .      R08qS
                .          .          .          .
                .          .          .          .
6704            .          .          .          .        08s
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                .          .          .          .          .
                .          .          .          .          .
6711            .          .      C08s.......................
                .          .         V
                .          .         V
6714            .          .      S08s
                .          .         .
                .          .         .
6723            .          .         .-------->   D08sP
6721            .          .      D08s
                .          .         V
                .          .         V
6726            .          .      R08sW
                .          .         .
                .          .         .
6732            .          .         .         12q
                .          .         .           V
                .          .         .           V
6739            .          .         .       R12qS
                .          .         .           .
                .          .         .           .
6745            .          .         .           .         12s
                .          .         .           .           V
                .          .         .           .           V
6752            .          .         .           .       S12s
                .          .         .           .           .
                .          .         .           .           .
6759            .          .         .        C12s............
                .          .         .           V
                .          .         .           V
6762            .          .         .       R12sW
                .          .         .           .
                .          .         .           .
6768            .          .      C12sW............
                .          .         .
                .          .         .
6773            .          .         .-------->  D16sP2
6771            .          .      D16s2
                .          .         .
                .          .         .
6776            .          .         .         16o
                .          .         .           V
                .          .         .           V
6783            .          .         .       R16oS
                .          .         .           .
                .          .         .           .
6789            .          .         .           .         16q
                .          .         .           .           .
                .          .         .           .           .
6796            .          .         .        C16q............
                .          .         .           V
                .          .         .           V
6799            .          .         .       S16q
                .          .         .           .
                .          .         .           .
6807            .          .         .           .-------->   D16qP
6805            .          .         .        D16q
                .          .         .           V
                .          .         .           V
6810            .          .         .       R16qS
                .          .         .           .
                .          .         .           .
6816            .          .         .           .         16s
                .          .         .           .           .
                .          .         .           .           .
6823            .          .      C16s.......................
                .          .         V
                .          .         V
6826            .          .      S16s
                .          .         .
                .          .         .
6834            .          .         .           .<--------   D16qP
6832            .          .         .      BD16qP
                .          .         .           .
                .          .         .           .
6838            .          .         .           .-------->  D16qPW
6835            .          .         .      D16qPS
                .          .         .           V
                .          .         .           V
6841            .          .         .       P16qS
                .          .         .           .
                .          .         .           .
6844            .          .      CC16s............
                .          .         .
                .          .         .
6849            .          .         .-------->   D16sP
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6847          .          .        D16s
              .          .          V
              .          .          V
6852          .          .       R16sS
              .          .          .
              .          .          .
6860          .          .          .          .<-------   D16sP
6858          .          .          .      BD16sP
              .          .          .          V
              .          .          .          V
6861          .          .          .       P16sS
              .          .          .          .
              .          .          .          .
6864          .          .       C16sS............
              .          .          .
              .          .          .
6867          .          .          .         20p
              .          .          .          V
              .          .          .          V
6874          .          .          .       S20p1
              .          .          .          .
              .          .          .          .
6882          .          .          .          .           .<-------  D16qPW
6880          .          .          .          .      B16qPW
              .          .          .          .          V
              .          .          .          .          V
6883          .          .          .          .       P16qW
              .          .          .          .           .
              .          .          .          .           .
6886          .          .          .        C20p............
              .          .          .          V
              .          .          .          V
6889          .          .          .       S20p2
              .          .          .          .
              .          .          .          .
6896          .          .          .          .      OCCC48
              .          .          .          .           .
              .          .          .          .           .
6906          .          .          .          .           .           .<-------   D24oP
6904          .          .          .          .           .      BD24oP
              .          .          .          .           .          V
              .          .          .          .           .          V
6907          .          .          .          .           .       P24oS
              .          .          .          .           .           .
              .          .          .          .           .           .
6910          .          .          .          .       C24oS............
              .          .          .          .           V
              .          .          .          .           V
6913          .          .          .          .       ROCCC
              .          .          .          .           .
              .          .          .          .           .
6919          .          .          .       CC20p............
              .          .          .          V
              .          .          .          V
6922          .          .          .       R20pS
              .          .          .          .
              .          .          .          .
6928          .          .          .          .         20q
              .          .          .          .           .
              .          .          .          .           .
6937          .          .          .          .           .           .<-------  D28pP2
6935          .          .          .          .           .      B28pP2
              .          .          .          .           .          V
              .          .          .          .           .          V
6938          .          .          .          .           .       P28pE
              .          .          .          .           .           .
              .          .          .          .           .           .
6941          .          .          .        C20q........................
              .          .          .          V
              .          .          .          V
6944          .          .          .       R20qS
              .          .          .          .
              .          .          .          .
6950          .          .          .          .         20s
              .          .          .          .           V
              .          .          .          .           V
6957          .          .          .          .        S20s
              .          .          .          .           .
              .          .          .          .           .
6963          .          .          .        C20s............
              .          .          .          .
              .          .          .          .
6968          .          .          .          .           .<-------  D24sPE
6966          .          .          .          .      B24sPE
              .          .          .          .           V
              .          .          .          .           V
```

```
6969          .          .          .          .       P24sE
              .          .          .          .          .
              .          .          .          .          .
6972          .          .          .      CC20s...........
              .          .          .          V
              .          .          .          V
6975          .          .          .      R20sS
              .          .          .          .
              .          .          .          .
6981          .          .          .          .        20t
              .          .          .          .          V
              .          .          .          .          V
6988          .          .          .          .       S20t
              .          .          .          .          .
              .          .          .          .          .
6994          .          .       C20t......................
              .          .          .
              .          .          .
6997          .     NUL20t...........
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   11JUL06  TIME  08:08:01   *
 *                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
```

```
Project ID: METRO ADMS/P - Major Basin: 01 - Return Period: 50 Years
METRO PHOENIX ADMS/P - FCD2004C040: Wood/Patel in association with EEC
50-Year 24-Hour Storm
SCS Type II Precipitation Distribution
Green and Ampt Loss Method
Clark Unit Hydrograph
Future Land Use Conditions
Model Name: FF24BASE.DAT, June 2006

*******************************************************************************
Important Notes:
1)  Peak flow for each subbasin may not concentrate on one single point,
    for illustration purposes, it is assumed that the concentration point
    is located on the hydrologic low point of the subbasin;
2)  Surface flow diversions may occur at several locations along one of the
    subbasin downstream boundaries.  For simplicity, one split flow is
    modeled for each subbasin to one direction;
3)  A fixed flow split ratio for most of the subbasin is used for all
    frequencies except some of the subbasins along Grand Canal.
4)  Some subbasins have multiple pipes to one direction, a composite storm
    drain pipe may have been used to model these conditions;
5)  Some subbasins have multiple detention/retention basins, an equivalent
    detention/retention basin may have been used to model these conditions;
6)  Surface flow routing may occur at multiple streets and as sheet flow,
    a composite channel cross section is used to represent the streets
    flow conveyance.

*******************************************************************************
HEC-1 ELEMENT NOMENCLATURE

SUB-BASIN HYDROGRAPH:
   Example: "80c" is the hydrograph from subbasin 80c

SUB-BASIN FLOW DIVERSION:
   Example: "D80cS" is the south component of diversion in Subbasin 80c

PIPE FLOW DIVERSION:
   Example: "80cP" is the pipe flow from Subbasin 80c

PIPE FLOW ROUTING:
   Example: "P80cS" is the south component of pipe routing from Subbasin 80c

CHANNEL ROUTE:
   Example: "R80cS" is the south component of surface flow routing from 80c

STORAGE ROUTE:
   Example: "S80c" is the storage routing in Subbasin 80c

HYDROGRAPH COMBINE:
   Example: "C80c" is the combined flow in Subbasin 80c

HYDROGRAPH RETRIEVAL:
   Example: "B80c" is the retrieved flow from Subbasin 80c

"DUMMY" COMBINE:
   Example: "NUL80C" is the dummy hydrograph combining to free up a HEC-1
                 computational path.
*******************************************************************************


 62 IO          OUTPUT CONTROL VARIABLES
                      IPRNT           5  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN           5  MINUTES IN COMPUTATION INTERVAL
                      IDATE      1    0  STARTING DATE
                      ITIME        0000  STARTING TIME
                         NQ        2000  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE      7    0  ENDING DATE
                     NDTIME        2235  ENDING TIME
```

```
                ICENT          19  CENTURY MARK

            COMPUTATION INTERVAL     .08 HOURS
                 TOTAL TIME BASE  166.58 HOURS

      ENGLISH UNITS
           DRAINAGE AREA          SQUARE MILES
           PRECIPITATION DEPTH    INCHES
           LENGTH, ELEVATION      FEET
           FLOW                   CUBIC FEET PER SECOND
           STORAGE VOLUME         ACRE-FEET
           SURFACE AREA           ACRES
           TEMPERATURE            DEGREES FAHRENHEIT

63 JD        INDEX STORM NO. 1
                 STRM        3.46  PRECIPITATION DEPTH
                 TRDA         .01  TRANSPOSITION DRAINAGE AREA

64 PI          PRECIPITATION PATTERN
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
               .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
               .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
               .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00

74 JD        INDEX STORM NO. 2
                 STRM        3.25  PRECIPITATION DEPTH
                 TRDA       10.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
               .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
               .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
               .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
               .00       .00       .00       .00       .00       .00       .00       .00

75 JD        INDEX STORM NO. 3
                 STRM        3.11  PRECIPITATION DEPTH
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                TRDA        30.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00

76 JD         INDEX STORM NO. 4
                STRM         2.98  PRECIPITATION DEPTH
                TRDA        60.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00

77 JD         INDEX STORM NO. 5
                STRM         2.93  PRECIPITATION DEPTH
                TRDA        90.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
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.01	.01	.01	.01	.01	.01	.01	.01	.03	.03
.03	.09	.09	.09	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
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1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
+	HYDROGRAPH AT	64c	121.	12.33	27.	8.	3.	.26		
+	DIVERSION TO	D64cS	82.	12.33	18.	5.	2.	.26		
+	HYDROGRAPH AT	D64cW	39.	12.33	9.	3.	1.	.26		
+	ROUTED TO	R64cW	36.	12.75	9.	3.	1.	.26		
+	HYDROGRAPH AT	68c	110.	12.33	26.	9.	3.	.43		
+	2 COMBINED AT	C68c	130.	12.58	34.	11.	4.	.70		
+	DIVERSION TO	D68cP	41.	12.08	21.	8.	3.	.70		
+	HYDROGRAPH AT	D68c	89.	12.58	13.	3.	1.	.70		
+	DIVERSION TO	D68cS	41.	12.58	6.	1.	0.	.70		
+	HYDROGRAPH AT	D68cW	48.	12.58	7.	2.	1.	.70		
+	ROUTED TO	R68cW	41.	13.00	7.	2.	1.	.70		
	HYDROGRAPH AT	72c	51.	12.67	19.	7.	2.	.54		
+	2 COMBINED AT	C72c	86.	12.92	26.	8.	3.	1.24		
+	DIVERSION TO	D72cP	80.	12.92	25.	8.	3.	1.24		
+	HYDROGRAPH AT	D72c	6.	12.92	0.	0.	0.	1.24		
+	DIVERSION TO	D72cS	5.	12.92	0.	0.	0.	1.24		
+	HYDROGRAPH AT	D72cW	1.	12.92	0.	0.	0.	1.24		
+	ROUTED TO	R72cW	0.	14.17	0.	0.	0.	1.24		
+	HYDROGRAPH AT	76C	404.	12.33	75.	22.	7.	.60		
+	2 COMBINED AT	C76c	397.	12.33	74.	21.	7.	1.84		
+	DIVERSION TO	D76c	358.	12.33	51.	13.	4.	1.84		
+	HYDROGRAPH AT	D76cP	39.	11.83	22.	8.	3.	1.84		
+	HYDROGRAPH AT	84c	245.	12.50	77.	24.	8.	.47		
+	DIVERSION TO	D84cS	188.	12.50	59.	19.	6.	.47		
	HYDROGRAPH AT	D84cE	57.	12.50	18.	6.	2.	.47		
+	ROUTED TO	R84cE	53.	12.92	18.	6.	2.	.47		

+	HYDROGRAPH AT	80c	360.	12.42	86.	27.	9.	.66
+	ROUTED TO	S80c	345.	12.50	86.	25.	8.	.66
+	2 COMBINED AT	C80c	379.	12.58	103.	30.	10.	1.13
+	DIVERSION TO	D80c	360.	12.58	84.	21.	7.	1.13
+	HYDROGRAPH AT	D80cP	19.	10.83	19.	9.	3.	1.13
+	2 COMBINED AT	C76cP	58.	11.83	41.	18.	6.	2.97
+	ROUTED TO	P76cS	58.	12.00	41.	18.	6.	2.97
+	DIVERSION TO	D80eP1	19.	12.00	13.	6.	2.	2.97
+	HYDROGRAPH AT	D76eP1	39.	12.00	28.	12.	4.	2.97
+	HYDROGRAPH AT	56e	48.	12.33	10.	3.	1.	.18
+	DIVERSION TO	D56eS	26.	12.33	5.	2.	1.	.18
+	HYDROGRAPH AT	D56eW	23.	12.33	5.	2.	1.	.18
+	ROUTED TO	R56eW	21.	12.67	5.	2.	1.	.18
+	HYDROGRAPH AT	60e	126.	12.42	33.	10.	4.	.41
+	2 COMBINED AT	C60e	140.	12.50	38.	12.	4.	.58
+	DIVERSION TO	D60eP	75.	12.25	30.	10.	3.	.58
+	HYDROGRAPH AT	D60e	65.	12.50	7.	2.	1.	.58
+	DIVERSION TO	D60eS	22.	12.50	2.	1.	0.	.58
+	HYDROGRAPH AT	D60eW	43.	12.50	5.	1.	0.	.58
+	ROUTED TO	R60eW	37.	13.00	5.	1.	0.	.58
+	HYDROGRAPH AT	64e	103.	12.50	29.	9.	3.	.50
+	HYDROGRAPH AT	B64cS	82.	12.33	18.	5.	2.	.26
+	ROUTED TO	R64cS	73.	12.92	18.	5.	2.	.26
+	3 COMBINED AT	C64e	187.	12.92	50.	15.	5.	1.35
+	DIVERSION TO	D64eS	93.	12.92	25.	8.	3.	1.35
+	HYDROGRAPH AT	D64eW	93.	12.92	25.	8.	3.	1.35
+	ROUTED TO	R64eW	87.	13.17	25.	8.	3.	1.35
+	HYDROGRAPH AT	68e	97.	12.50	28.	9.	3.	.50
	HYDROGRAPH AT							

+	B68cP	41.	12.08	21.	8.	3.	.70
ROUTED TO +	P68cS	41.	12.25	21.	8.	3.	.70
HYDROGRAPH AT +	B68cS	41.	12.58	6.	1.	0.	.70
ROUTED TO +	R68cS	35.	13.08	6.	1.	0.	.70
2 COMBINED AT +	C68cS	76.	13.08	27.	9.	3.	.70
3 COMBINED AT +	C68e	227.	13.00	78.	25.	8.	2.28
DIVERSION TO +	D68eP	63.	12.08	42.	16.	5.	2.28
HYDROGRAPH AT +	D68e	164.	13.00	36.	9.	3.	2.28
DIVERSION TO +	D68eS	88.	13.00	19.	5.	2.	2.28
HYDROGRAPH AT +	D68eW	75.	13.00	17.	4.	1.	2.28
ROUTED TO +	R68eW	69.	13.42	17.	4.	1.	2.28
HYDROGRAPH AT +	72e	108.	12.50	33.	11.	4.	.50
HYDROGRAPH AT +	B72cP	80.	12.92	25.	8.	3.	1.24
ROUTED TO +	P72cS	80.	13.00	25.	8.	3.	1.24
HYDROGRAPH AT	B72cS	5.	12.92	0.	0.	0.	1.24
ROUTED TO +	R72cS	2.	13.83	0.	0.	0.	1.24
2 COMBINED AT +	C72cS	80.	13.00	26.	8.	3.	1.24
3 COMBINED AT +	C72e	210.	13.08	72.	22.	7.	3.32
DIVERSION TO +	D72eP	195.	12.92	70.	22.	7.	3.32
HYDROGRAPH AT +	D72e	15.	13.08	1.	0.	0.	3.32
DIVERSION TO +	D72eS	14.	13.08	1.	0.	0.	3.32
HYDROGRAPH AT +	D72eW	2.	13.08	0.	0.	0.	3.32
ROUTED TO +	R72eW	1.	14.33	0.	0.	0.	3.32
HYDROGRAPH AT +	76e	206.	12.42	50.	15.	5.	.50
HYDROGRAPH AT +	B76c	358.	12.33	51.	13.	4.	1.84
ROUTED TO +	R76cS	319.	12.67	51.	13.	4.	1.84
4 COMBINED AT +	C76e	531.	12.67	126.	39.	13.	4.42
DIVERSION TO	D76e	510.	12.67	105.	26.	9.	4.42
HYDROGRAPH AT +	D76eP	21.	9.92	21.	13.	4.	4.42

+	HYDROGRAPH AT	BD84cS	188.	12.50	59.	19.	6.	.47
	ROUTED TO	R84cS	180.	12.83	59.	19.	6.	.47
+	HYDROGRAPH AT	84e	79.	12.50	25.	8.	3.	.21
+	2 COMBINED AT	C84e	250.	12.83	84.	26.	9.	.68
+	DIVERSION TO	D84eS	98.	12.83	33.	10.	3.	.68
+	HYDROGRAPH AT	D84eE	152.	12.83	51.	16.	5.	.68
+	ROUTED TO	R84eE	144.	13.33	51.	16.	5.	.68
+	HYDROGRAPH AT	80e	274.	12.42	61.	18.	6.	.49
+	HYDROGRAPH AT	B80eP1	19.	12.00	13.	6.	2.	2.97
+	HYDROGRAPH AT	BD80c	360.	12.58	84.	21.	7.	1.13
+	ROUTED TO	R80cS	339.	12.92	84.	21.	7.	1.13
+	4 COMBINED AT	C80e	624.	12.92	205.	60.	20.	1.84
+	DIVERSION TO	D80e	569.	12.92	155.	39.	13.	1.84
+	HYDROGRAPH AT	D80eP	55.	11.92	50.	21.	7.	1.84
+	2 COMBINED AT	C76eP	76.	11.92	71.	34.	12.	6.26
+	ROUTED TO	P76eS	76.	12.08	71.	34.	12.	6.26
+	DIVERSION TO	D80gP1	55.	12.08	52.	25.	8.	6.26
+	HYDROGRAPH AT	D76gP1	21.	12.08	19.	9.	3.	6.26
+	HYDROGRAPH AT	76g	254.	12.42	59.	18.	6.	.50
+	HYDROGRAPH AT	BD76e	510.	12.67	105.	26.	9.	4.42
+	ROUTED TO	R76eS	481.	13.00	105.	26.	9.	4.42
+	3 COMBINED AT	C76g	658.	12.92	180.	53.	18.	4.92
+	DIVERSION TO	D76gP2	48.	11.75	44.	19.	6.	4.92
+	HYDROGRAPH AT	D76g1	610.	12.92	137.	34.	11.	4.92
+	DIVERSION TO	D76gP	57.	12.00	31.	8.	3.	4.92
+	HYDROGRAPH AT	D76g	553.	12.92	106.	27.	9.	4.92
+	DIVERSION TO	D76gS	387.	12.92	74.	19.	6.	4.92
+	HYDROGRAPH AT	D76gE	166.	12.92	32.	8.	3.	4.92
+	ROUTED TO	R76gE	162.	13.08	32.	8.	3.	4.92

+	HYDROGRAPH AT	B76gP2	48.	11.75	44.	19.	6.	4.92
	2 COMBINED AT	C76gE	210.	13.08	75.	27.	9.	4.92
+	HYDROGRAPH AT	54g	158.	12.25	28.	9.	3.	.25
+	DIVERSION TO	D54gS	63.	12.25	11.	3.	1.	.25
+	HYDROGRAPH AT	D54gW	94.	12.25	17.	5.	2.	.25
+	ROUTED TO	R54gW	81.	12.58	17.	5.	2.	.25
+	HYDROGRAPH AT	56g	122.	12.42	34.	12.	4.	.50
+	HYDROGRAPH AT	B56eS	26.	12.33	5.	2.	1.	.18
+	ROUTED TO	R56eS	21.	12.83	5.	2.	1.	.18
+	3 COMBINED AT	C56g	204.	12.58	56.	18.	6.	.92
+	DIVERSION TO	D56gP	130.	12.33	49.	17.	6.	.92
+	HYDROGRAPH AT	D56g	74.	12.58	7.	2.	1.	.92
+	DIVERSION TO	D56gS	42.	12.58	4.	1.	0.	.92
+	HYDROGRAPH AT	D56gW	33.	12.58	3.	1.	0.	.92
+	ROUTED TO	R56gW	26.	13.08	3.	1.	0.	.92
+	HYDROGRAPH AT	60g	155.	12.42	42.	14.	5.	.50
+	HYDROGRAPH AT	B60eP	75.	12.25	30.	10.	3.	.58
+	ROUTED TO	P60eS	75.	12.33	30.	10.	3.	.58
+	HYDROGRAPH AT	B60eS	22.	12.50	2.	1.	0.	.58
+	ROUTED TO	R60eS	16.	13.17	2.	1.	0.	.58
+	2 COMBINED AT	C60eS	91.	13.17	33.	11.	4.	.58
+	3 COMBINED AT	C60g	225.	12.42	76.	25.	8.	1.83
+	DIVERSION TO	D60gP	124.	12.17	59.	20.	7.	1.83
+	HYDROGRAPH AT	D60g	101.	12.42	18.	4.	1.	1.83
+	DIVERSION TO	D60gS	47.	12.42	8.	2.	1.	1.83
+	HYDROGRAPH AT	D60gW	54.	12.42	9.	2.	1.	1.83
+	ROUTED TO	R60gW	48.	13.17	9.	2.	1.	1.83
+	HYDROGRAPH AT	64g	99.	12.50	31.	10.	3.	.50
	HYDROGRAPH AT							

+	B64eS	93.	12.92	25.	8.	3.	1.35
ROUTED TO +	R64eS	87.	13.25	25.	8.	3.	1.35
3 COMBINED AT +	C64g	190.	13.17	63.	20.	7.	3.10
DIVERSION TO +	D64gP	153.	12.83	59.	19.	6.	3.10
HYDROGRAPH AT +	D64g	37.	13.17	3.	1.	0.	3.10
DIVERSION TO +	D64gS	18.	13.17	2.	0.	0.	3.10
HYDROGRAPH AT +	D64gW	19.	13.17	2.	0.	0.	3.10
ROUTED TO +	R64gW	12.	13.58	2.	0.	0.	3.10
HYDROGRAPH AT +	68g	60.	12.58	22.	8.	3.	.50
HYDROGRAPH AT +	B68eP	63.	12.08	42.	16.	5.	2.28
ROUTED TO +	P68eS	63.	12.17	42.	16.	5.	2.28
HYDROGRAPH AT +	B68eS	88.	13.00	19.	5.	2.	2.28
ROUTED TO +	R68eS	79.	13.50	19.	5.	2.	2.28
2 COMBINED AT +	C68eS	142.	13.50	61.	21.	7.	2.28
3 COMBINED AT +	C68g	185.	13.42	83.	29.	10.	4.53
DIVERSION TO +	D68gP	82.	12.08	57.	22.	7.	4.53
HYDROGRAPH AT +	D68g	103.	13.42	26.	7.	2.	4.53
DIVERSION TO +	D68gS	58.	13.42	15.	4.	1.	4.53
HYDROGRAPH AT +	D68gW	45.	13.42	12.	3.	1.	4.53
ROUTED TO +	R68gW	43.	13.83	12.	3.	1.	4.53
HYDROGRAPH AT +	72g	152.	12.50	44.	14.	5.	.50
HYDROGRAPH AT +	B72eP	195.	12.92	70.	22.	7.	3.32
ROUTED TO +	P72eS	195.	13.00	70.	22.	7.	3.32
HYDROGRAPH AT +	B72eS	14.	13.08	1.	0.	0.	3.32
ROUTED TO +	R72eS	8.	13.67	1.	0.	0.	3.32
2 COMBINED AT +	C72eS	196.	13.17	72.	22.	7.	3.32
3 COMBINED AT +	C72g	323.	12.92	123.	38.	13.	6.07
2 COMBINED AT +	CC72g	527.	13.00	197.	64.	22.	7.67
DIVERSION TO +	D72gP	178.	12.25	121.	45.	15.	7.67

+	HYDROGRAPH AT	D72g	349.	13.00	76.	19.	6.	7.67
	ROUTED TO	R72gS	329.	13.33	76.	19.	6.	7.67
+	HYDROGRAPH AT	BD72gP	178.	12.25	121.	45.	15.	7.67
+	ROUTED TO	P72gS	178.	12.42	121.	45.	15.	7.67
+	2 COMBINED AT	C72gS	507.	13.33	197.	64.	22.	7.67
+	HYDROGRAPH AT	84g	88.	12.50	27.	8.	3.	.21
+	HYDROGRAPH AT	B84eS	98.	12.83	33.	10.	3.	.68
+	ROUTED TO	R84eS	95.	13.25	33.	10.	3.	.68
+	2 COMBINED AT	C84g	152.	13.08	59.	18.	6.	.90
+	DIVERSION TO	D84gS	72.	13.08	28.	9.	3.	.90
+	HYDROGRAPH AT	D84gE	80.	13.08	31.	10.	3.	.90
+	ROUTED TO	R84gE	75.	13.58	31.	10.	3.	.90
+	HYDROGRAPH AT	80g	212.	12.42	54.	16.	5.	.50
+	HYDROGRAPH AT	BD80e	569.	12.92	155.	39.	13.	1.84
	ROUTED TO	R80eS	547.	13.25	154.	39.	13.	1.84
+	HYDROGRAPH AT	B80gP1	55.	12.08	52.	25.	8.	6.26
+	4 COMBINED AT	C80g	773.	13.17	287.	89.	30.	2.55
+	DIVERSION TO	D80g	754.	13.17	268.	72.	24.	2.55
+	HYDROGRAPH AT	D80gP	19.	7.00	19.	17.	6.	2.55
+	HYDROGRAPH AT	B76gP	57.	12.00	31.	8.	3.	4.92
+	2 COMBINED AT	C76gP	76.	12.00	49.	25.	9.	7.47
+	ROUTED TO	P76gS	76.	12.08	49.	25.	9.	7.47
+	DIVERSION TO	D80iP1	19.	12.08	12.	6.	2.	7.47
+	HYDROGRAPH AT	D76iP1	57.	12.08	37.	19.	6.	7.47
+	HYDROGRAPH AT	76i	307.	12.42	77.	25.	8.	.50
+	HYDROGRAPH AT	BD76gS	387.	12.92	74.	19.	6.	4.92
+	ROUTED TO	R76gS	353.	13.25	74.	19.	6.	4.92
	3 COMBINED AT	C76i	558.	13.08	186.	61.	21.	5.42
+	DIVERSION TO	D76i1	510.	13.08	143.	36.	12.	5.42

+	HYDROGRAPH AT	D76iP2	48.	11.75	43.	26.	9.	5.42
+	HYDROGRAPH AT	72i	195.	12.50	54.	16.	5.	.50
+	3 COMBINED AT	C72i	659.	13.25	291.	106.	36.	8.68
+	DIVERSION TO	D72i	401.	13.25	100.	25.	8.	8.68
+	HYDROGRAPH AT	D72iP	258.	12.17	191.	81.	27.	8.68
+	DIVERSION TO	D72iP1	226.	12.17	167.	71.	24.	8.68
+	HYDROGRAPH AT	D72iP2	32.	12.17	24.	10.	3.	8.68
+	ROUTED TO	P72iW	32.	12.25	24.	10.	3.	8.68
+	HYDROGRAPH AT	BD76i1	510.	13.08	143.	36.	12.	5.42
+	2 COMBINED AT	CC76i	541.	13.08	166.	46.	15.	5.92
+	DIVERSION TO	D76i	463.	13.08	117.	29.	10.	5.92
+	HYDROGRAPH AT	D76iP	78.	12.00	50.	17.	6.	5.92
+	HYDROGRAPH AT	BD84gS	72.	13.08	28.	9.	3.	.90
+	ROUTED TO	R84gS	69.	13.50	28.	9.	3.	.90
+	HYDROGRAPH AT	84i	71.	12.58	25.	8.	3.	.21
+	2 COMBINED AT	C84i	112.	13.33	51.	16.	5.	1.11
+	ROUTED TO	S84i	1.	23.08	1.	0.	0.	1.11
+	DIVERSION TO	D84iS	0.	23.08	0.	0.	0.	1.11
+	HYDROGRAPH AT	D84iE	1.	23.17	1.	0.	0.	1.11
+	ROUTED TO	R84iE	1.	24.25	1.	0.	0.	1.11
+	HYDROGRAPH AT	80i	295.	12.42	65.	19.	6.	.49
+	HYDROGRAPH AT	BD80g	754.	13.17	268.	72.	24.	2.55
+	ROUTED TO	S80g	754.	13.17	268.	72.	24.	2.55
+	ROUTED TO	R80gS	742.	13.42	268.	72.	24.	2.55
+	HYDROGRAPH AT	B80iP1	19.	12.08	12.	6.	2.	7.47
+	4 COMBINED AT	C80i	855.	13.33	341.	96.	32.	3.25
+	DIVERSION TO	D80i	827.	13.33	313.	79.	26.	3.25
+	HYDROGRAPH AT	D80iP	28.	10.75	28.	17.	6.	3.25
	2 COMBINED AT							

+	C76iP	106.	12.00	78.	33.	11.	9.18
ROUTED TO	P76iS	106.	12.08	78.	33.	11.	9.18
DIVERSION TO +	D80kP1	28.	12.08	20.	9.	3.	9.18
HYDROGRAPH AT +	D76kP1	78.	12.08	57.	25.	8.	9.18
HYDROGRAPH AT +	76k	264.	12.33	50.	15.	5.	.32
HYDROGRAPH AT +	BD76i	463.	13.08	117.	29.	10.	5.92
DIVERSION TO +	D76iE	148.	13.08	37.	9.	3.	5.92
HYDROGRAPH AT +	D76iS	315.	13.08	79.	20.	7.	5.92
ROUTED TO +	R76iS	308.	13.33	79.	20.	7.	5.92
3 COMBINED AT +	C76k	456.	12.58	185.	59.	20.	5.74
DIVERSION TO +	D76k1	424.	12.58	153.	38.	13.	5.74
HYDROGRAPH AT +	D76kP2	32.	10.67	32.	21.	7.	5.74
HYDROGRAPH AT +	54i	79.	12.42	22.	7.	2.	.19
HYDROGRAPH AT +	BD54gS	63.	12.25	11.	3.	1.	.25
ROUTED TO	R54gS	54.	12.75	11.	3.	1.	.25
2 COMBINED AT +	C54i	123.	12.67	33.	11.	4.	.44
DIVERSION TO +	D54iP	68.	12.25	28.	9.	3.	.44
HYDROGRAPH AT +	D54i	55.	12.67	6.	1.	0.	.44
DIVERSION TO +	D54iS	20.	12.67	2.	1.	0.	.44
HYDROGRAPH AT +	D54iW	34.	12.67	4.	1.	0.	.44
ROUTED TO +	R54iW	26.	13.17	4.	1.	0.	.44
HYDROGRAPH AT +	56i	219.	12.42	54.	17.	6.	.50
HYDROGRAPH AT +	BD56gP	130.	12.33	49.	17.	6.	.92
ROUTED TO +	P56gS	130.	12.42	49.	17.	6.	.92
HYDROGRAPH AT +	BD56gS	42.	12.58	4.	1.	0.	.92
ROUTED TO +	R56gS	31.	13.17	4.	1.	0.	.92
2 COMBINED AT +	C56gS	160.	13.08	52.	17.	6.	.92
3 COMBINED AT	C56i	344.	12.42	108.	35.	12.	1.62
DIVERSION TO +	D56iP	204.	12.17	88.	30.	10.	1.62

+	HYDROGRAPH AT	D56i	140.	12.42	20.	5.	2.	1.62
	DIVERSION TO	D56iS	68.	12.42	10.	2.	1.	1.62
+	HYDROGRAPH AT	D56iW	71.	12.42	10.	3.	1.	1.62
+	ROUTED TO	R56iW	62.	13.00	10.	3.	1.	1.62
+	HYDROGRAPH AT	60i	269.	12.33	65.	21.	7.	.50
+	HYDROGRAPH AT	BD60gP	124.	12.17	59.	20.	7.	1.83
+	ROUTED TO	P60gS	124.	12.25	59.	20.	7.	1.83
+	HYDROGRAPH AT	BD60gS	47.	12.42	8.	2.	1.	1.83
+	ROUTED TO	R60gS	43.	13.17	8.	2.	1.	1.83
+	2 COMBINED AT	C60gS	167.	13.17	67.	22.	8.	1.83
+	3 COMBINED AT	C60i	392.	12.83	140.	45.	15.	3.02
+	DIVERSION TO	D60iP	211.	12.08	104.	36.	12.	3.02
+	HYDROGRAPH AT	D60i	181.	12.83	36.	9.	3.	3.02
+	DIVERSION TO	D60iS	107.	12.83	21.	5.	2.	3.02
+	HYDROGRAPH AT	D60iW	74.	12.83	15.	4.	1.	3.02
+	ROUTED TO	R60iW	69.	13.17	15.	4.	1.	3.02
+	HYDROGRAPH AT	BD64gP	153.	12.83	59.	19.	6.	3.10
+	ROUTED TO	P64gS	153.	12.92	59.	19.	6.	3.10
+	HYDROGRAPH AT	BD64gS	18.	13.17	2.	0.	0.	3.10
+	ROUTED TO	R64gS	11.	13.67	2.	0.	0.	3.10
+	2 COMBINED AT	C64gS	161.	13.50	61.	19.	6.	3.10
+	HYDROGRAPH AT	64i	183.	12.42	52.	17.	6.	.50
+	3 COMBINED AT	C64i	353.	12.83	125.	39.	13.	4.79
+	DIVERSION TO	D64iP	214.	12.33	102.	34.	11.	4.79
+	HYDROGRAPH AT	D64i	139.	12.83	23.	6.	2.	4.79
+	DIVERSION TO	D64iS	85.	12.83	14.	4.	1.	4.79
+	HYDROGRAPH AT	D64iW	54.	12.83	9.	2.	1.	4.79
+	ROUTED TO	R64iW	47.	13.42	9.	2.	1.	4.79
+	HYDROGRAPH AT	68i	94.	12.58	33.	11.	4.	.50

+	HYDROGRAPH AT	BD68gP	82.	12.08	57.	22.	7.	4.53
	ROUTED TO	P68gS	82.	12.17	57.	22.	7.	4.53
+	HYDROGRAPH AT	BD68gS	58.	13.42	15.	4.	1.	4.53
+	ROUTED TO	R68gS	53.	13.92	15.	4.	1.	4.53
+	2 COMBINED AT	C68gS	135.	13.92	72.	26.	9.	4.53
+	3 COMBINED AT	C68i	222.	13.50	112.	39.	13.	6.72
+	HYDROGRAPH AT	BD72i	401.	13.25	100.	25.	8.	8.68
+	HYDROGRAPH AT	B76iE	148.	13.08	37.	9.	3.	5.92
+	ROUTED TO	R76iE	141.	13.42	37.	9.	3.	5.92
+	2 COMBINED AT	CC72i	534.	13.33	137.	34.	11.	8.68
+	DIVERSION TO	D72iS	374.	13.33	96.	24.	8.	8.68
+	HYDROGRAPH AT	D72iE	160.	13.33	41.	10.	3.	8.68
+	ROUTED TO	R72iE	155.	13.67	41.	10.	3.	8.68
+	2 COMBINED AT	CC68i	368.	13.58	150.	48.	16.	10.87
+	DIVERSION TO	D68iP	99.	12.08	76.	30.	10.	10.87
+	HYDROGRAPH AT	D68i	269.	13.58	73.	18.	6.	10.87
+	ROUTED TO	R68iS	268.	13.75	73.	18.	6.	10.87
+	HYDROGRAPH AT	BD68iP	99.	12.08	76.	30.	10.	10.87
+	ROUTED TO	P68iS	99.	12.17	76.	30.	10.	10.87
+	2 COMBINED AT	C68iS	367.	13.75	150.	48.	16.	10.87
+	HYDROGRAPH AT	36i	131.	12.42	32.	10.	3.	.34
+	DIVERSION TO	D36iP	41.	12.08	20.	7.	2.	.34
+	HYDROGRAPH AT	D36i	90.	12.42	12.	3.	1.	.34
+	DIVERSION TO	D36iS	76.	12.42	10.	3.	1.	.34
+	HYDROGRAPH AT	D36iW	14.	12.42	2.	0.	0.	.34
+	ROUTED TO	R36iW	13.	12.75	2.	0.	0.	.34
+	HYDROGRAPH AT	40i	49.	12.33	15.	5.	2.	.22
+	ROUTED TO	S40i	0.	24.83	0.	0.	0.	.22
	2 COMBINED AT							

+		C40i	13.	12.75	2.	1.	0.	.56
	DIVERSION TO							
+		D40iS	10.	12.75	1.	0.	0.	.56
	HYDROGRAPH AT							
+		D40iW	3.	12.75	0.	0.	0.	.56
	ROUTED TO							
+		R40iW	3.	13.25	0.	0.	0.	.56
	HYDROGRAPH AT							
+		44i	61.	12.50	21.	7.	2.	.35
	HYDROGRAPH AT							
+		42i	92.	12.33	15.	4.	1.	.27
	ROUTED TO							
+		R42iW	87.	12.50	15.	4.	1.	.27
	3 COMBINED AT							
+		C44i	141.	12.50	35.	11.	4.	1.18
	DIVERSION TO							
+		D44iP	48.	12.17	24.	8.	3.	1.18
	HYDROGRAPH AT							
+		D44i	93.	12.50	12.	3.	1.	1.18
	DIVERSION TO							
+		D44iS	47.	12.50	6.	1.	0.	1.18
	HYDROGRAPH AT							
+		D44iW	47.	12.50	6.	1.	0.	1.18
	ROUTED TO							
+		R44iW	41.	12.83	6.	1.	0.	1.18
	HYDROGRAPH AT							
+		48i	99.	12.50	26.	8.	3.	.54
	2 COMBINED AT							
		C48i	124.	12.75	31.	9.	3.	1.72
	DIVERSION TO							
+		D48iP	47.	12.25	20.	7.	2.	1.72
	HYDROGRAPH AT							
+		D48i	77.	12.75	10.	3.	1.	1.72
	DIVERSION TO							
+		D48iS	38.	12.75	5.	1.	0.	1.72
	HYDROGRAPH AT							
+		D48iW	39.	12.75	5.	1.	0.	1.72
	ROUTED TO							
+		R48iW	37.	12.92	5.	1.	0.	1.72
	HYDROGRAPH AT							
+		BD48iP	47.	12.25	20.	7.	2.	1.72
	ROUTED TO							
+		P48iW	47.	12.33	20.	7.	2.	1.72
	2 COMBINED AT							
+		C48iW	84.	12.92	26.	8.	3.	1.72
	HYDROGRAPH AT							
+		52g	61.	12.33	12.	4.	1.	.26
	ROUTED TO							
+		R52gS	50.	12.83	12.	4.	1.	.26
	HYDROGRAPH AT							
+		52i	109.	12.42	28.	9.	3.	.31
	3 COMBINED AT							
+		C52i	209.	12.75	63.	20.	7.	2.29
	DIVERSION TO							
+		DB52i	114.	12.75	18.	5.	2.	2.29
	HYDROGRAPH AT							
+		E52i	95.	12.17	45.	15.	5.	2.29

+	HYDROGRAPH AT BDB52i	114.	12.75	18.	5.	2.	2.29
	ROUTED TO S52i	55.	13.25	18.	5.	2.	2.29
+	2 COMBINED AT CC52i	150.	13.25	63.	20.	7.	2.29
+	DIVERSION TO D52iP	95.	12.17	50.	17.	6.	2.29
+	HYDROGRAPH AT D52i	55.	13.25	14.	3.	1.	2.29
+	ROUTED TO R52iS	55.	13.67	14.	3.	1.	2.29
+	HYDROGRAPH AT BD52iP	95.	12.17	50.	17.	6.	2.29
+	ROUTED TO P52iS	95.	12.33	50.	17.	6.	2.29
+	2 COMBINED AT C52iS	150.	13.67	63.	20.	7.	2.29
+	HYDROGRAPH AT 24k	120.	12.25	23.	7.	2.	.19
+	DIVERSION TO D24kS	60.	12.25	11.	3.	1.	.19
+	HYDROGRAPH AT D24kW	60.	12.25	11.	3.	1.	.19
+	ROUTED TO R24kW	53.	12.58	11.	3.	1.	.19
+	HYDROGRAPH AT ARC40	47.	13.00	12.	4.	1.	.10
	ROUTED TO PARC40	46.	13.08	12.	4.	1.	.10
+	HYDROGRAPH AT 28k	169.	12.42	41.	13.	4.	.43
+	3 COMBINED AT C28k	231.	12.58	63.	19.	7.	.72
+	DIVERSION TO D28kP	131.	12.25	52.	16.	6.	.72
+	HYDROGRAPH AT D28k	100.	12.58	12.	3.	1.	.72
+	DIVERSION TO D28kS	42.	12.58	5.	1.	0.	.72
+	HYDROGRAPH AT D28kW	58.	12.58	7.	2.	1.	.72
+	ROUTED TO R28kW	50.	12.92	7.	2.	1.	.72
+	HYDROGRAPH AT 32k	89.	12.50	29.	10.	3.	.51
+	2 COMBINED AT C32k	122.	12.83	35.	11.	4.	1.23
+	DIVERSION TO D32kP	45.	12.17	23.	9.	3.	1.23
+	HYDROGRAPH AT D32k	77.	12.83	11.	3.	1.	1.23
+	DIVERSION TO D32kS	35.	12.83	5.	1.	0.	1.23
	HYDROGRAPH AT D32kW	42.	12.83	6.	2.	1.	1.23
+	ROUTED TO R32kW	37.	13.17	6.	2.	1.	1.23

+	HYDROGRAPH AT	36k	172.	12.42	45.	14.	5.	.51
+	HYDROGRAPH AT	BD36iP	41.	12.08	20.	7.	2.	.34
+	ROUTED TO	P36iS	41.	12.25	20.	7.	2.	.34
+	HYDROGRAPH AT	BD36iS	76.	12.42	10.	3.	1.	.34
+	ROUTED TO	R36iS	63.	13.00	10.	3.	1.	.34
+	2 COMBINED AT	C36iS	104.	13.00	30.	9.	3.	.34
+	3 COMBINED AT	C36k	249.	12.83	78.	24.	8.	2.07
+	DIVERSION TO	D36kP	59.	12.00	37.	14.	5.	2.07
+	HYDROGRAPH AT	D36k	190.	12.83	41.	10.	3.	2.07
+	DIVERSION TO	D36kS	83.	12.83	18.	5.	2.	2.07
+	HYDROGRAPH AT	D36kW	106.	12.83	23.	6.	2.	2.07
+	ROUTED TO	R36kW	104.	13.08	23.	6.	2.	2.07
+	HYDROGRAPH AT	BD40iS	10.	12.75	1.	0.	0.	.56
+	ROUTED TO	R40iS	7.	13.50	1.	0.	0.	.56
+	HYDROGRAPH AT	40k	198.	12.42	51.	16.	5.	.50
+	3 COMBINED AT	C40k	255.	12.67	74.	22.	7.	2.80
+	DIVERSION TO	D40kP	29.	11.92	21.	8.	3.	2.80
+	HYDROGRAPH AT	D40k	226.	12.67	53.	13.	4.	2.80
+	DIVERSION TO	D40kS	95.	12.67	22.	6.	2.	2.80
+	HYDROGRAPH AT	D40kW	131.	12.67	31.	8.	3.	2.80
+	ROUTED TO	R40kW	129.	12.83	31.	8.	3.	2.80
+	HYDROGRAPH AT	44k	246.	12.42	62.	20.	7.	.51
+	HYDROGRAPH AT	BD44iP	48.	12.17	24.	8.	3.	1.18
+	ROUTED TO	P44iS	48.	12.42	24.	8.	3.	1.18
+	HYDROGRAPH AT	BD44iS	47.	12.50	6.	1.	0.	1.18
+	ROUTED TO	R44iS	37.	13.00	6.	1.	0.	1.18
+	2 COMBINED AT	C44iS	85.	13.00	30.	10.	3.	1.18
+	3 COMBINED AT	C44k	391.	12.75	120.	37.	12.	3.93
	DIVERSION TO							

+	D44kP	71.	12.00	48.	18.	6.	3.93
HYDROGRAPH AT +	D44k	320.	12.75	72.	18.	6.	3.93
DIVERSION TO +	D44kS	122.	12.75	28.	7.	2.	3.93
HYDROGRAPH AT +	D44kW	199.	12.75	45.	11.	4.	3.93
ROUTED TO +	R44kW	194.	12.92	45.	11.	4.	3.93
HYDROGRAPH AT +	48k	266.	12.42	72.	23.	8.	.50
ROUTED TO +	S48k	264.	12.50	72.	22.	7.	.50
HYDROGRAPH AT +	BD48iS	38.	12.75	5.	1.	0.	1.72
ROUTED TO +	R48iS	31.	13.25	5.	1.	0.	1.72
3 COMBINED AT +	C48k	413.	12.75	119.	34.	11.	4.96
DIVERSION TO +	D48kS	185.	12.75	54.	15.	5.	4.96
HYDROGRAPH AT +	D48kW	228.	12.75	66.	19.	6.	4.96
ROUTED TO +	R48kW	227.	12.83	66.	19.	6.	4.96
HYDROGRAPH AT +	52k	133.	12.50	39.	12.	4.	.29
3 COMBINED AT +	C52k	448.	12.92	165.	50.	17.	5.83
DIVERSION TO +	D52kP	201.	12.25	110.	36.	12.	5.83
HYDROGRAPH AT +	D52k	247.	12.92	55.	14.	5.	5.83
DIVERSION TO +	D52kS	111.	12.92	25.	6.	2.	5.83
HYDROGRAPH AT +	D52kW	136.	12.92	30.	8.	3.	5.83
ROUTED TO +	R52kW	135.	13.00	30.	8.	3.	5.83
HYDROGRAPH AT +	BD54iP	68.	12.25	28.	9.	3.	.44
ROUTED TO +	P54iS	68.	12.42	28.	9.	3.	.44
HYDROGRAPH AT +	BD54iS	20.	12.67	2.	1.	0.	.44
ROUTED TO +	R54iS	14.	13.42	2.	1.	0.	.44
2 COMBINED AT +	C54iS	81.	13.33	30.	10.	3.	.44
HYDROGRAPH AT +	54k	119.	12.50	37.	12.	4.	.25
3 COMBINED AT +	C54k	309.	12.75	98.	29.	10.	1.18
DIVERSION TO	D54kP	124.	12.25	62.	20.	7.	1.18
HYDROGRAPH AT +	D54k	185.	12.75	36.	9.	3.	1.18

+	DIVERSION TO	D54kS	82.	12.75	14.	3.	1.	1.18
	HYDROGRAPH AT	D54kW	103.	12.75	23.	6.	2.	1.18
+	ROUTED TO	R54kW	96.	13.58	22.	6.	2.	1.18
+	HYDROGRAPH AT	BD56iP	204.	12.17	88.	30.	10.	1.62
+	ROUTED TO	P56iS	204.	12.33	88.	30.	10.	1.62
+	HYDROGRAPH AT	BD56iS	68.	12.42	10.	2.	1.	1.62
+	ROUTED TO	R56iS	62.	12.83	10.	2.	1.	1.62
+	2 COMBINED AT	C56iS	266.	12.83	98.	32.	11.	1.62
+	HYDROGRAPH AT	56k	238.	12.42	55.	18.	6.	.42
+	3 COMBINED AT	C56k	437.	12.75	172.	55.	18.	2.78
+	HYDROGRAPH AT	BD60iP	211.	12.08	104.	36.	12.	3.02
+	DIVERSION TO	D60iP2	143.	12.08	71.	24.	8.	3.02
+	HYDROGRAPH AT	D60iP1	68.	12.08	34.	12.	4.	3.02
+	ROUTED TO	P60iS1	68.	12.17	34.	12.	4.	3.02
+	HYDROGRAPH AT	B60iP2	143.	12.08	71.	24.	8.	3.02
+	ROUTED TO	P60iS2	143.	12.17	71.	24.	8.	3.02
+	HYDROGRAPH AT	BD60iS	107.	12.83	21.	5.	2.	3.02
+	ROUTED TO	R60iS	104.	13.00	21.	5.	2.	3.02
+	3 COMBINED AT	C60iS	315.	13.00	125.	41.	14.	3.02
+	HYDROGRAPH AT	60k	164.	12.33	39.	12.	4.	.27
+	2 COMBINED AT	C60k	434.	12.67	163.	53.	18.	3.29
+	DIVERSION TO	D60k	299.	12.67	75.	19.	6.	3.29
+	HYDROGRAPH AT	D60kP	135.	12.00	88.	34.	12.	3.29
+	DIVERSION TO	D60kP2	125.	12.00	81.	32.	11.	3.29
+	HYDROGRAPH AT	D60kP1	10.	12.00	7.	3.	1.	3.29
+	ROUTED TO	P60kE	10.	12.17	7.	3.	1.	3.29
+	2 COMBINED AT	CC56k	445.	12.42	177.	57.	19.	4.46
+	DIVERSION TO	D56kP	303.	12.17	148.	49.	17.	4.46
+	HYDROGRAPH AT	D56k	142.	12.42	30.	7.	2.	4.46

+	DIVERSION TO	D56kS	36.	12.42	6.	1.	0.	4.46
	HYDROGRAPH AT	D56kW	106.	12.42	24.	6.	2.	4.46
+	ROUTED TO	R56kW	100.	13.17	24.	6.	2.	4.46
+	HYDROGRAPH AT	BD60k	299.	12.67	75.	19.	6.	3.29
+	2 COMBINED AT	CC60k	365.	12.92	99.	25.	8.	4.46
+	DIVERSION TO	D60kS	238.	12.92	57.	14.	5.	4.46
+	HYDROGRAPH AT	D60kW	128.	12.92	41.	10.	3.	4.46
+	ROUTED TO	R60kW	126.	13.33	41.	10.	3.	4.46
+	HYDROGRAPH AT	64k	146.	12.33	27.	9.	3.	.21
+	HYDROGRAPH AT	BD64iS	85.	12.83	14.	4.	1.	4.79
+	ROUTED TO	R64iS	80.	13.08	14.	4.	1.	4.79
+	3 COMBINED AT	C64k	247.	13.00	80.	22.	7.	6.43
+	ROUTED TO	S64k	128.	14.00	55.	16.	5.	6.43
+	HYDROGRAPH AT	BD64iP	214.	12.33	102.	34.	11.	4.79
	ROUTED TO	P64iS	214.	12.42	102.	34.	11.	4.79
+	2 COMBINED AT	CC64k	335.	13.75	153.	49.	16.	6.43
+	DIVERSION TO	D64kP	214.	12.42	134.	44.	15.	6.43
+	HYDROGRAPH AT	D64k	121.	13.75	19.	5.	2.	6.43
+	DIVERSION TO	D64kS	1.	14.00	0.	0.	0.	6.43
+	HYDROGRAPH AT	D64kW	120.	13.75	19.	5.	2.	6.43
+	ROUTED TO	R64kW	107.	14.08	19.	5.	2.	6.43
+	HYDROGRAPH AT	68k	171.	12.33	32.	9.	3.	.20
+	3 COMBINED AT	C68k	455.	13.83	193.	60.	20.	12.71
+	DIVERSION TO	D68kP	114.	12.00	89.	34.	12.	12.71
+	HYDROGRAPH AT	D68k	341.	13.83	104.	26.	9.	12.71
+	DIVERSION TO	D68kS	216.	13.83	55.	14.	5.	12.71
+	HYDROGRAPH AT	D68kW	124.	13.83	49.	12.	4.	12.71
+	ROUTED TO	R68kW	121.	14.25	49.	12.	4.	12.71
	HYDROGRAPH AT							

+		72k	224.	12.33	46.	13.	4.	.28
	ROUTED TO							
+		S72k	211.	12.50	39.	10.	3.	.28
	HYDROGRAPH AT							
+		B72iP1	226.	12.17	167.	71.	24.	8.68
	ROUTED TO							
+		P72iS	226.	12.25	167.	71.	24.	8.68
	HYDROGRAPH AT							
+		BD72iS	374.	13.33	96.	24.	8.	8.68
	ROUTED TO							
+		R72iS	369.	13.50	96.	24.	8.	8.68
	2 COMBINED AT							
+		C72iS	595.	13.50	263.	95.	32.	8.68
	3 COMBINED AT							
+		C72k	726.	13.42	341.	115.	39.	12.99
	2 COMBINED AT							
+		CC72k	758.	13.42	373.	135.	46.	12.99
	DIVERSION TO							
+		D72kP	281.	12.25	222.	97.	33.	12.99
	HYDROGRAPH AT							
+		D72k	477.	13.42	151.	38.	13.	12.99
	DIVERSION TO							
+		D72kS	328.	13.42	94.	24.	8.	12.99
	HYDROGRAPH AT							
+		D72kW	149.	13.42	56.	14.	5.	12.99
	ROUTED TO							
+		R72kW	146.	13.92	56.	14.	5.	12.99
	HYDROGRAPH AT							
+		B76k1	424.	12.58	153.	38.	13.	5.74
	2 COMBINED AT							
+		CC76k	522.	13.33	204.	51.	17.	13.31
	DIVERSION TO							
+		D76kP	43.	11.83	33.	8.	3.	13.31
	HYDROGRAPH AT							
+		D76k	479.	13.33	171.	43.	14.	13.31
	DIVERSION TO							
+		D76kS	361.	13.33	120.	30.	10.	13.31
	HYDROGRAPH AT							
+		D76kW	117.	13.33	50.	13.	4.	13.31
	ROUTED TO							
+		R76kW	113.	14.00	50.	13.	4.	13.31
	HYDROGRAPH AT							
+		80k	329.	12.33	71.	21.	7.	.43
	HYDROGRAPH AT							
+		BD80i	827.	13.33	313.	79.	26.	3.25
	ROUTED TO							
+		R80iS	818.	13.50	313.	79.	26.	3.25
	HYDROGRAPH AT							
+		B80kP1	28.	12.08	20.	9.	3.	9.18
	3 COMBINED AT							
+		C80k	936.	13.42	399.	108.	36.	3.68
	DIVERSION TO							
+		D80kP	63.	11.83	62.	24.	8.	3.68
	HYDROGRAPH AT							
+		D80k	873.	13.42	337.	84.	28.	3.68
	2 COMBINED AT							
+		CC80k	970.	13.42	387.	97.	32.	4.68

+	DIVERSION TO	D80kS	396.	13.42	123.	31.	10.	4.68
	HYDROGRAPH AT	D80kW	574.	13.42	265.	66.	22.	4.68
+	ROUTED TO	R80kW	571.	13.58	264.	66.	22.	4.68
+	HYDROGRAPH AT	84k	155.	12.58	54.	16.	5.	.31
+	HYDROGRAPH AT	BD84iS	0.	23.08	0.	0.	0.	1.11
+	ROUTED TO	R84iS	0.	25.25	0.	0.	0.	1.11
+	3 COMBINED AT	C84k	660.	13.42	315.	82.	27.	4.99
+	ROUTED TO	R84kS	657.	13.58	314.	82.	27.	4.99
+	HYDROGRAPH AT	84m	129.	12.50	38.	11.	4.	.21
+	2 COMBINED AT	C84m	712.	13.50	349.	92.	31.	5.20
+	HYDROGRAPH AT	I17	253.	12.33	74.	26.	9.	.29
+	DIVERSION TO	D84mP	247.	12.33	74.	26.	9.	.29
+	HYDROGRAPH AT	D84m	6.	12.33	0.	0.	0.	.29
+	2 COMBINED AT	CC84m	712.	13.50	349.	92.	31.	5.49
	DIVERSION TO	D84mS	273.	13.50	134.	35.	12.	5.49
+	HYDROGRAPH AT	D84mE	439.	13.50	215.	57.	19.	5.49
+	ROUTED TO	R84mE	436.	13.75	215.	57.	19.	5.49
+	HYDROGRAPH AT	80m	423.	12.33	90.	26.	9.	.54
+	HYDROGRAPH AT	BD80kS	396.	13.42	123.	31.	10.	4.68
+	ROUTED TO	R80kS	380.	13.75	123.	31.	10.	4.68
+	3 COMBINED AT	C80m	887.	13.67	419.	113.	38.	6.03
+	DIVERSION TO	D80mS	511.	13.67	242.	65.	22.	6.03
+	HYDROGRAPH AT	D80mE	376.	13.67	178.	48.	16.	6.03
+	ROUTED TO	R80mE	374.	13.83	177.	48.	16.	6.03
+	HYDROGRAPH AT	761	216.	12.17	30.	8.	3.	.18
+	HYDROGRAPH AT	BD80kP	63.	11.83	62.	24.	8.	3.68
+	HYDROGRAPH AT	BD76kP	43.	11.83	33.	8.	3.	13.31
	2 COMBINED AT	C76kP	106.	11.83	94.	32.	11.	17.25
+	ROUTED TO	P76kS	106.	11.92	94.	32.	11.	17.25

	HYDROGRAPH AT						
+		BD76kS	361.	13.33	120.	30.	10.	13.31
	ROUTED TO						
+		R76kS	358.	13.42	120.	30.	10.	13.31
	2 COMBINED AT						
+		C76kS	481.	13.33	221.	64.	21.	4.68
	2 COMBINED AT						
+		C76l	496.	13.33	249.	72.	24.	4.86
	DIVERSION TO						
+		D76lP	156.	11.92	128.	42.	14.	4.86
	HYDROGRAPH AT						
+		D76l	340.	13.33	121.	30.	10.	4.86
	ROUTED TO						
+		R76lS	330.	13.58	120.	30.	10.	4.86
	HYDROGRAPH AT						
+		BD76lP	156.	11.92	128.	42.	14.	4.86
	ROUTED TO						
+		P76lS	156.	12.08	128.	42.	14.	4.86
	2 COMBINED AT						
+		C76lS	486.	13.58	249.	72.	24.	4.86
	HYDROGRAPH AT						
+		76m	385.	12.33	81.	23.	8.	.49
	ROUTED TO						
+		S76m	383.	12.42	81.	23.	8.	.49
	3 COMBINED AT						
+		C76m	937.	12.83	500.	141.	47.	6.71
	DIVERSION TO						
+		D76m	746.	12.83	325.	81.	27.	6.71
	HYDROGRAPH AT						
+		D76mP	191.	11.92	176.	60.	20.	6.71
	DIVERSION TO						
+		D76mP2	32.	11.92	29.	10.	3.	6.71
	HYDROGRAPH AT						
+		D76mP1	159.	11.92	146.	50.	17.	6.71
	HYDROGRAPH AT						
+		72l	99.	12.50	28.	9.	3.	.22
	HYDROGRAPH AT						
+		BD72kP	281.	12.25	222.	97.	33.	12.99
	ROUTED TO						
+		P72kS	281.	12.33	222.	97.	33.	12.99
	HYDROGRAPH AT						
+		BD72kS	328.	13.42	94.	24.	8.	12.99
	ROUTED TO						
+		R72kS	325.	13.58	94.	24.	8.	12.99
	2 COMBINED AT						
+		C72kS	606.	13.58	317.	121.	41.	12.99
	2 COMBINED AT						
+		C72l	646.	13.50	342.	129.	43.	13.21
	DIVERSION TO						
+		D72lP	305.	12.25	240.	103.	35.	13.21
	HYDROGRAPH AT						
+		D72l	341.	13.50	102.	25.	8.	13.21
	ROUTED TO						
+		R72lS	330.	13.83	102.	25.	8.	13.21
	HYDROGRAPH AT						
+		BD72lP	305.	12.25	240.	103.	35.	13.21
	ROUTED TO						

+		P721S	305.	12.42	240.	103.	35.	13.21
	2 COMBINED AT	C721S	635.	13.83	342.	129.	43.	13.21
	HYDROGRAPH AT							
+		72m	322.	12.42	81.	24.	8.	.47
	3 COMBINED AT							
+		C72m	878.	13.58	561.	200.	67.	13.67
	HYDROGRAPH AT							
+		601	140.	12.33	32.	10.	3.	.23
	HYDROGRAPH AT							
+		B60kP2	125.	12.00	81.	32.	11.	3.29
	ROUTED TO							
+		P60kS	125.	12.08	81.	32.	11.	3.29
	HYDROGRAPH AT							
+		BD60kS	238.	12.92	57.	14.	5.	4.46
	ROUTED TO							
+		R60kS	237.	13.00	57.	14.	5.	4.46
	2 COMBINED AT							
+		C60kS	362.	13.00	139.	46.	15.	4.46
	2 COMBINED AT							
+		C601	444.	12.83	169.	56.	19.	4.69
	DIVERSION TO							
+		D601P	93.	11.92	72.	31.	10.	4.69
	HYDROGRAPH AT							
+		D601	351.	12.83	98.	24.	8.	4.69
	DIVERSION TO							
+		D601S	255.	12.83	71.	18.	6.	4.69
	HYDROGRAPH AT							
		D601W	96.	12.83	27.	7.	2.	4.69
	ROUTED TO							
+		R601W	94.	13.17	27.	7.	2.	4.69
	HYDROGRAPH AT							
+		641	104.	12.58	31.	9.	3.	.29
	HYDROGRAPH AT							
+		BD64kS	1.	14.00	0.	0.	0.	6.43
	ROUTED TO							
+		R64kS	1.	14.17	0.	0.	0.	6.43
	3 COMBINED AT							
+		C641	173.	12.92	55.	15.	5.	6.96
	ROUTED TO							
+		S641	0.	23.75	0.	0.	0.	6.96
	HYDROGRAPH AT							
+		BD64kP	214.	12.42	134.	44.	15.	6.43
	ROUTED TO							
+		P64kS	214.	12.50	134.	44.	15.	6.43
	2 COMBINED AT							
+		CC641	214.	12.50	133.	44.	15.	6.96
	DIVERSION TO							
+		D641P	214.	12.50	133.	44.	15.	6.96
	HYDROGRAPH AT							
+		D641	0.	.00	0.	0.	0.	6.96
	DIVERSION TO							
+		D641S	0.	.00	0.	0.	0.	6.96
	HYDROGRAPH AT							
		D641W	0.	.00	0.	0.	0.	6.96
	ROUTED TO							
+		R641W	0.	.00	0.	0.	0.	6.96

+	HYDROGRAPH AT 68l	193.	12.50	53.	15.	5.	.32
+	HYDROGRAPH AT BD68kP	114.	12.00	89.	34.	12.	12.71
+	ROUTED TO P68kS	114.	12.08	89.	34.	12.	12.71
+	HYDROGRAPH AT BD68kS	216.	13.83	55.	14.	5.	12.71
+	ROUTED TO R68kS	210.	14.00	55.	14.	5.	12.71
+	2 COMBINED AT C68kS	324.	14.00	144.	48.	16.	12.71
+	3 COMBINED AT C68l	368.	14.00	193.	62.	21.	13.56
+	DIVERSION TO D68lP	114.	11.92	94.	38.	13.	13.56
+	HYDROGRAPH AT D68l	254.	14.00	99.	25.	8.	13.56
+	ROUTED TO R68lS	244.	14.33	99.	25.	8.	13.56
+	HYDROGRAPH AT BD68lP	114.	11.92	94.	38.	13.	13.56
+	ROUTED TO P68lS	114.	12.08	94.	38.	13.	13.56
+	2 COMBINED AT C68lS	358.	14.33	192.	62.	21.	13.56
+	HYDROGRAPH AT 24m	129.	12.42	38.	13.	4.	.50
+	ROUTED TO S24m	129.	12.50	38.	12.	4.	.50
+	HYDROGRAPH AT BD24kS	60.	12.25	11.	3.	1.	.19
+	ROUTED TO R24kS	52.	12.75	11.	3.	1.	.19
+	2 COMBINED AT C24m	169.	12.67	48.	16.	5.	.69
+	DIVERSION TO D24mS	73.	12.67	21.	7.	2.	.69
+	HYDROGRAPH AT D24mW	97.	12.67	28.	9.	3.	.69
+	ROUTED TO R24mW	91.	12.92	28.	9.	3.	.69
+	HYDROGRAPH AT 28m	101.	12.50	32.	11.	4.	.51
+	HYDROGRAPH AT BD28kP	131.	12.25	52.	16.	6.	.72
+	ROUTED TO P28kS	131.	12.42	52.	16.	6.	.72
+	HYDROGRAPH AT BD28kS	42.	12.58	5.	1.	0.	.72
+	ROUTED TO R28kS	34.	13.08	5.	1.	0.	.72
+	2 COMBINED AT C28kS	165.	13.08	57.	18.	6.	.72
+	3 COMBINED AT C28m	326.	12.92	114.	37.	12.	1.73
+	DIVERSION TO D28mP	211.	12.33	96.	32.	11.	1.73

+	HYDROGRAPH AT	D28m	115.	12.92	17.	4.	1.	1.73
	DIVERSION TO	D28mS	51.	12.92	8.	2.	1.	1.73
+	HYDROGRAPH AT	D28mW	64.	12.92	10.	2.	1.	1.73
+	ROUTED TO	R28mW	59.	13.17	10.	2.	1.	1.73
+	HYDROGRAPH AT	32m	197.	12.42	51.	16.	5.	.51
+	ROUTED TO	S32m	197.	12.42	51.	16.	5.	.51
+	HYDROGRAPH AT	BD32kP	45.	12.17	23.	9.	3.	1.23
+	ROUTED TO	P32kS	45.	12.33	23.	9.	3.	1.23
+	HYDROGRAPH AT	BD32kS	35.	12.83	5.	1.	0.	1.23
+	ROUTED TO	R32kS	30.	13.33	5.	1.	0.	1.23
+	2 COMBINED AT	C32kS	75.	13.33	29.	10.	3.	1.23
+	3 COMBINED AT	C32m	241.	12.92	87.	28.	9.	2.75
+	DIVERSION TO	D32mP	66.	12.00	43.	17.	6.	2.75
+	HYDROGRAPH AT	D32m	175.	12.92	44.	11.	4.	2.75
+	DIVERSION TO	D32mS	75.	12.92	19.	5.	2.	2.75
+	HYDROGRAPH AT	D32mW	100.	12.92	25.	6.	2.	2.75
+	ROUTED TO	R32mW	98.	13.17	25.	6.	2.	2.75
+	HYDROGRAPH AT	36m	140.	12.50	42.	14.	5.	.51
+	HYDROGRAPH AT	BD36kP	59.	12.00	37.	14.	5.	2.07
+	ROUTED TO	P36kS	59.	12.17	37.	14.	5.	2.07
+	HYDROGRAPH AT	BD36kS	83.	12.83	18.	5.	2.	2.07
+	ROUTED TO	R36kS	79.	13.17	18.	5.	2.	2.07
+	2 COMBINED AT	C36kS	138.	13.17	55.	19.	6.	2.07
+	3 COMBINED AT	C36m	324.	13.00	119.	38.	13.	4.11
+	DIVERSION TO	D36mP	114.	12.17	70.	26.	9.	4.11
+	HYDROGRAPH AT	D36m	210.	13.00	48.	12.	4.	4.11
	DIVERSION TO	D36mS	101.	13.00	23.	6.	2.	4.11
+	HYDROGRAPH AT	D36mW	109.	13.00	25.	6.	2.	4.11
	ROUTED TO							

+		R36mW	105.	13.25	25.	6.	2.	4.11
	HYDROGRAPH AT							
+		40m	259.	12.42	63.	19.	7.	.51
	HYDROGRAPH AT							
+		BD40kP	29.	11.92	21.	8.	3.	2.80
	ROUTED TO							
+		P40kS	29.	12.17	21.	8.	3.	2.80
	HYDROGRAPH AT							
+		BD40kS	95.	12.67	22.	6.	2.	2.80
	ROUTED TO							
+		R40kS	93.	13.00	22.	6.	2.	2.80
	2 COMBINED AT							
+		C40kS	122.	13.00	43.	14.	5.	2.80
	3 COMBINED AT							
+		C40m	376.	12.83	128.	39.	13.	5.35
	DIVERSION TO							
+		D40mP	66.	11.92	48.	19.	6.	5.35
	HYDROGRAPH AT							
+		D40m	310.	12.83	80.	20.	7.	5.35
	DIVERSION TO							
+		D40mS	133.	12.83	35.	9.	3.	5.35
	HYDROGRAPH AT							
+		D40mW	177.	12.83	46.	11.	4.	5.35
	ROUTED TO							
+		R40mW	173.	13.08	46.	11.	4.	5.35
	HYDROGRAPH AT							
+		44m	189.	12.42	51.	16.	5.	.50
	HYDROGRAPH AT							
+		BD44kP	71.	12.00	48.	18.	6.	3.93
	ROUTED TO							
+		P44kS	71.	12.25	48.	18.	6.	3.93
	HYDROGRAPH AT							
+		BD44kS	122.	12.75	28.	7.	2.	3.93
	ROUTED TO							
+		R44kS	115.	13.08	28.	7.	2.	3.93
	2 COMBINED AT							
+		C44kS	186.	13.08	75.	25.	8.	3.93
	3 COMBINED AT							
+		C44m	482.	12.92	168.	52.	17.	6.98
	DIVERSION TO							
+		D44mP	124.	12.08	82.	31.	10.	6.98
	HYDROGRAPH AT							
+		D44m	358.	12.92	86.	21.	7.	6.98
	DIVERSION TO							
+		D44mS	151.	12.92	36.	9.	3.	6.98
	HYDROGRAPH AT							
+		D44mW	206.	12.92	49.	12.	4.	6.98
	ROUTED TO							
+		R44mW	195.	13.17	49.	12.	4.	6.98
	HYDROGRAPH AT							
+		24o	213.	12.42	58.	18.	6.	.50
	HYDROGRAPH AT							
+		BD24mS	73.	12.67	21.	7.	2.	.69
	ROUTED TO							
+		R24mS	67.	13.08	21.	7.	2.	.69
	2 COMBINED AT							
+		C24o	231.	12.67	77.	25.	8.	1.20

+	DIVERSION TO	D24oP	48.	11.92	35.	14.	5.	1.20
	HYDROGRAPH AT	D24o	183.	12.67	42.	11.	4.	1.20
+	DIVERSION TO	D24oS	70.	12.67	16.	4.	1.	1.20
+	HYDROGRAPH AT	D24oW	114.	12.67	26.	7.	2.	1.20
+	ROUTED TO	R24oW	111.	12.92	26.	7.	2.	1.20
+	HYDROGRAPH AT	28o	118.	12.50	37.	12.	4.	.50
+	HYDROGRAPH AT	BD28mP	211.	12.33	96.	32.	11.	1.73
+	ROUTED TO	P28mS	211.	12.50	96.	33.	11.	1.73
+	HYDROGRAPH AT	BD28mS	51.	12.92	8.	2.	1.	1.73
+	ROUTED TO	R28mS	45.	13.33	8.	2.	1.	1.73
+	2 COMBINED AT	C28mS	256.	13.33	104.	34.	12.	1.73
+	3 COMBINED AT	C28o	432.	13.00	164.	52.	18.	2.73
+	DIVERSION TO	D28oP	367.	12.50	155.	50.	17.	2.73
+	HYDROGRAPH AT	D28o	65.	13.00	9.	2.	1.	2.73
	DIVERSION TO	D28oS	27.	13.00	4.	1.	0.	2.73
+	HYDROGRAPH AT	D28oW	38.	13.00	5.	1.	0.	2.73
+	ROUTED TO	R28oW	34.	13.33	5.	1.	0.	2.73
+	HYDROGRAPH AT	32o	194.	12.42	52.	16.	5.	.50
+	HYDROGRAPH AT	BD32mS	75.	12.92	19.	5.	2.	2.75
+	ROUTED TO	R32mS	72.	13.33	19.	5.	2.	2.75
+	HYDROGRAPH AT	BD32mP	66.	12.00	43.	17.	6.	2.75
+	ROUTED TO	P32mS	66.	12.17	43.	17.	6.	2.75
+	2 COMBINED AT	C32mS	138.	13.33	62.	21.	7.	2.75
+	3 COMBINED AT	C32o	283.	12.92	116.	38.	13.	4.25
+	DIVERSION TO	D32oP	160.	12.17	90.	32.	11.	4.25
+	HYDROGRAPH AT	D32o	123.	12.92	26.	7.	2.	4.25
+	DIVERSION TO	D32oS	54.	12.92	11.	3.	1.	4.25
	HYDROGRAPH AT	D32oW	69.	12.92	15.	4.	1.	4.25
+	ROUTED TO	R32oW	68.	13.08	15.	4.	1.	4.25

	HYDROGRAPH AT						
+	36o	244.	12.42	59.	18.	6.	.50
	HYDROGRAPH AT						
+	BD36mP	114.	12.17	70.	26.	9.	4.11
	ROUTED TO						
+	P36mS	114.	12.33	70.	26.	9.	4.11
	HYDROGRAPH AT						
+	BD36mS	101.	13.00	23.	6.	2.	4.11
	ROUTED TO						
+	R36mS	95.	13.42	23.	6.	2.	4.11
	2 COMBINED AT						
+	C36mS	209.	13.42	94.	31.	11.	4.11
	3 COMBINED AT						
+	C36o	393.	12.92	164.	52.	17.	6.12
	DIVERSION TO						
+	D36oP	139.	12.08	92.	34.	11.	6.12
	HYDROGRAPH AT						
+	D36o	254.	12.92	72.	18.	6.	6.12
	DIVERSION TO						
+	D36oS	109.	12.92	31.	8.	3.	6.12
	HYDROGRAPH AT						
+	D36oW	145.	12.92	41.	10.	3.	6.12
	ROUTED TO						
+	R36oW	144.	13.17	41.	10.	3.	6.12
	HYDROGRAPH AT						
+	B40mP	66.	11.92	48.	19.	6.	5.35
	ROUTED TO						
+	P40mS	66.	12.08	48.	19.	6.	5.35
	HYDROGRAPH AT						
+	BD40mS	133.	12.83	35.	9.	3.	5.35
	ROUTED TO						
+	R40mS	128.	13.25	35.	9.	3.	5.35
	2 COMBINED AT						
+	C40mS	194.	13.25	82.	27.	9.	5.35
	HYDROGRAPH AT						
+	40o	199.	12.42	48.	15.	5.	.47
	3 COMBINED AT						
+	C40o	434.	12.92	167.	51.	17.	7.82
	DIVERSION TO						
+	D40oP	70.	11.92	56.	24.	8.	7.82
	HYDROGRAPH AT						
+	D40o	364.	12.92	111.	28.	9.	7.82
	DIVERSION TO						
+	D40oS	170.	12.92	44.	11.	4.	7.82
	HYDROGRAPH AT						
+	D40oW	194.	12.92	67.	17.	6.	7.82
	ROUTED TO						
+	R40oW	192.	13.33	67.	17.	6.	7.82
	HYDROGRAPH AT						
+	44o	81.	12.42	19.	6.	2.	.23
	HYDROGRAPH AT						
+	BD44mP	124.	12.08	82.	31.	10.	6.98
	ROUTED TO						
+	P44mS	124.	12.17	82.	31.	10.	6.98
	HYDROGRAPH AT						
+	BD44mS	151.	12.92	36.	9.	3.	6.98
	ROUTED TO						

+	R44mS	149.	13.08	36.	9.	3.	6.98
2 COMBINED AT +	C44mS	273.	13.08	119.	40.	13.	6.98
3 COMBINED AT +	C44o	493.	13.08	202.	62.	21.	9.68
DIVERSION TO +	D44oP	124.	12.00	92.	34.	12.	9.68
HYDROGRAPH AT +	D44o	369.	13.08	109.	27.	9.	9.68
DIVERSION TO +	D44oS	250.	13.08	68.	17.	6.	9.68
HYDROGRAPH AT +	D44oW	119.	13.08	41.	10.	3.	9.68
ROUTED TO +	R44oW	115.	13.75	41.	10.	3.	9.68
2 COMBINED AT +	C44mW	281.	13.42	90.	22.	7.	9.68
HYDROGRAPH AT +	48m	229.	12.42	54.	17.	6.	.48
HYDROGRAPH AT +	BD48kS	185.	12.75	54.	15.	5.	4.96
ROUTED TO +	R48kS	180.	13.00	53.	15.	5.	4.96
3 COMBINED AT +	C48m	526.	13.25	191.	53.	18.	11.19
HYDROGRAPH AT +	BD52kP	201.	12.25	110.	36.	12.	5.83
ROUTED TO	P52kS	201.	12.42	110.	36.	12.	5.83
HYDROGRAPH AT +	BD52kS	111.	12.92	25.	6.	2.	5.83
ROUTED TO +	R52kS	110.	13.08	25.	6.	2.	5.83
2 COMBINED AT +	C52kS	311.	13.08	135.	42.	14.	5.83
HYDROGRAPH AT +	52m	126.	12.25	20.	6.	2.	.18
2 COMBINED AT +	C52m	356.	12.75	153.	48.	16.	6.01
2 COMBINED AT +	CC52m	848.	13.17	339.	99.	33.	12.24
DIVERSION TO +	D52mP	364.	12.17	217.	69.	23.	12.24
HYDROGRAPH AT +	D52m	484.	13.17	121.	30.	10.	12.24
DIVERSION TO +	D52mS	435.	13.17	109.	27.	9.	12.24
HYDROGRAPH AT +	D52mW	48.	13.17	12.	3.	1.	12.24
ROUTED TO +	R52mW	48.	13.25	12.	3.	1.	12.24
HYDROGRAPH AT +	54m	203.	12.25	36.	11.	4.	.27
HYDROGRAPH AT	BD54kP	124.	12.25	62.	20.	7.	1.18
ROUTED TO +	P54kS	124.	12.42	62.	20.	7.	1.18

+	HYDROGRAPH AT	BD54kS	82.	12.75	14.	3.	1.	1.18
-	ROUTED TO	R54kS	78.	13.08	14.	3.	1.	1.18
+	2 COMBINED AT	C54kS	202.	13.08	76.	24.	8.	1.18
+	3 COMBINED AT	C54m	321.	12.33	124.	38.	13.	1.66
+	DIVERSION TO	D54mP	124.	12.08	72.	25.	8.	1.66
+	HYDROGRAPH AT	D54m	197.	12.33	52.	13.	4.	1.66
+	DIVERSION TO	D54mS	79.	12.33	21.	5.	2.	1.66
+	HYDROGRAPH AT	D54mW	118.	12.33	31.	8.	3.	1.66
+	ROUTED TO	R54mW	111.	13.08	31.	8.	3.	1.66
+	HYDROGRAPH AT	56m	214.	12.58	66.	21.	7.	.58
+	HYDROGRAPH AT	BD56kP	303.	12.17	148.	49.	17.	4.46
+	ROUTED TO	P56kS	303.	12.33	148.	49.	17.	4.46
+	HYDROGRAPH AT	BD56kS	36.	12.42	6.	1.	0.	4.46
+	ROUTED TO	R56kS	25.	13.25	6.	1.	0.	4.46
+	2 COMBINED AT	C56kS	328.	13.25	153.	51.	17.	4.46
+	3 COMBINED AT	C56m	609.	12.67	247.	78.	26.	5.50
+	DIVERSION TO	D56mP	433.	12.33	213.	70.	23.	5.50
+	HYDROGRAPH AT	D56m	176.	12.67	34.	9.	3.	5.50
+	DIVERSION TO	D56mS	69.	12.67	13.	3.	1.	5.50
+	HYDROGRAPH AT	D56mW	108.	12.67	21.	5.	2.	5.50
+	ROUTED TO	R56mW	102.	13.17	21.	5.	2.	5.50
+	HYDROGRAPH AT	60m	188.	12.50	52.	15.	5.	.50
+	HYDROGRAPH AT	BD601P	93.	11.92	72.	31.	10.	4.69
+	ROUTED TO	P601S	93.	12.08	72.	31.	10.	4.69
+	HYDROGRAPH AT	BD601S	255.	12.83	71.	18.	6.	4.69
+	ROUTED TO	R601S	251.	13.17	71.	18.	6.	4.69
+	2 COMBINED AT	C601S	344.	13.17	143.	49.	16.	4.69
+	3 COMBINED AT	C60m	579.	13.00	213.	68.	23.	6.24
+	DIVERSION TO	D60mP	124.	12.00	95.	39.	13.	6.24

+	HYDROGRAPH AT	D60m	455.	13.00	118.	29.	10.	6.24
	DIVERSION TO	D60mS	236.	13.00	61.	15.	5.	6.24
+	HYDROGRAPH AT	D60mW	218.	13.00	57.	14.	5.	6.24
+	ROUTED TO	R60mW	209.	13.42	57.	14.	5.	6.24
+	HYDROGRAPH AT	64m	329.	12.50	98.	31.	10.	.50
+	HYDROGRAPH AT	BD641P	214.	12.50	133.	44.	15.	6.96
+	ROUTED TO	P641S	214.	12.67	133.	44.	15.	6.96
+	HYDROGRAPH AT	BD641S	0.	.00	0.	0.	0.	6.96
+	ROUTED TO	R641S	0.	.00	0.	0.	0.	6.96
+	2 COMBINED AT	C641S	214.	12.67	133.	44.	15.	6.96
+	HYDROGRAPH AT	68m	377.	12.50	114.	37.	12.	.55
+	DIVERSION TO	D68m	343.	12.50	83.	21.	7.	.55
+	HYDROGRAPH AT	D68mP2	34.	11.42	32.	16.	5.	.55
+	4 COMBINED AT	C64m	644.	13.17	312.	103.	35.	9.55
	DIVERSION TO	D64mP	399.	12.25	256.	89.	30.	9.55
+	HYDROGRAPH AT	D64m	245.	13.17	56.	14.	5.	9.55
+	DIVERSION TO	D64mS	152.	13.17	35.	9.	3.	9.55
+	HYDROGRAPH AT	D64mW	93.	13.17	21.	5.	2.	9.55
+	ROUTED TO	R64mW	90.	13.50	21.	5.	2.	9.55
+	HYDROGRAPH AT	BD68m	343.	12.50	83.	21.	7.	.55
+	3 COMBINED AT	C68m	628.	13.00	285.	85.	29.	16.15
+	DIVERSION TO	D68mP	144.	11.92	118.	44.	15.	16.15
+	HYDROGRAPH AT	D68m2	484.	13.00	167.	42.	14.	16.15
+	DIVERSION TO	D68mS	402.	13.00	139.	35.	12.	16.15
+	HYDROGRAPH AT	D68mW	82.	13.00	28.	7.	2.	16.15
+	ROUTED TO	R68mW	79.	13.33	28.	7.	2.	16.15
+	2 COMBINED AT	CC72m	939.	13.50	583.	205.	69.	17.12
+	DIVERSION TO	D72mP	308.	11.83	292.	132.	45.	17.12
	HYDROGRAPH AT							

+	D72m	631.	13.50	291.	73.	24.	17.12
ROUTED TO +	R72mS	625.	14.00	290.	73.	24.	17.12
HYDROGRAPH AT +	BD72mP	308.	11.83	292.	132.	45.	17.12
ROUTED TO +	P72mS	308.	12.00	292.	132.	45.	17.12
2 COMBINED AT +	C72mS	933.	14.00	581.	205.	69.	17.12
HYDROGRAPH AT +	BD24oS	70.	12.67	16.	4.	1.	1.20
ROUTED TO +	R24oS	68.	12.92	16.	4.	1.	1.20
HYDROGRAPH AT +	BD28oP	367.	12.50	155.	50.	17.	2.73
ROUTED TO +	P28oS	367.	12.58	155.	50.	17.	2.73
HYDROGRAPH AT +	BD28oS	27.	13.00	4.	1.	0.	2.73
ROUTED TO +	R28oS	25.	13.25	4.	1.	0.	2.73
2 COMBINED AT +	C28oS	392.	13.25	159.	51.	17.	2.73
2 COMBINED AT +	C28p	456.	13.08	175.	55.	18.	2.73
HYDROGRAPH AT +	28p	185.	12.33	42.	13.	4.	.37
ROUTED TO +	S28p	184.	12.42	42.	13.	4.	.37
2 COMBINED AT +	CC28p	583.	12.58	215.	67.	23.	3.11
DIVERSION TO +	D28pP	279.	12.25	149.	51.	17.	3.11
HYDROGRAPH AT +	D28p	304.	12.58	66.	17.	6.	3.11
ROUTED TO +	R28pW	301.	12.83	66.	17.	6.	3.11
HYDROGRAPH AT +	32p	97.	12.42	23.	6.	2.	.23
HYDROGRAPH AT +	BD32oS	54.	12.92	11.	3.	1.	4.25
ROUTED TO +	R32oS	54.	13.00	11.	3.	1.	4.25
2 COMBINED AT +	C32p	131.	12.75	34.	9.	3.	4.49
ROUTED TO +	S32p	58.	13.75	26.	7.	2.	4.49
HYDROGRAPH AT +	BD32oP	160.	12.17	90.	32.	11.	4.25
ROUTED TO +	P32oS	160.	12.25	90.	32.	11.	4.25
3 COMBINED AT +	CC32p	487.	12.92	179.	55.	18.	4.86
DIVERSION TO +	D32pS	70.	12.92	24.	7.	2.	4.86
HYDROGRAPH AT +	D32pW	417.	12.92	156.	48.	16.	4.86

	DIVERSION TO						
+		D32pP	379.	12.67	152.	47.	16.	4.86
	HYDROGRAPH AT						
		D32p	38.	12.92	4.	1.	0.	4.86
	ROUTED TO						
+		R32pW	31.	13.33	4.	1.	0.	4.86
	HYDROGRAPH AT						
+		BD32pP	379.	12.67	152.	47.	16.	4.86
	ROUTED TO						
+		P32pW	379.	12.75	152.	47.	16.	4.86
	2 COMBINED AT						
+		C32pW	410.	13.33	156.	48.	16.	4.86
	HYDROGRAPH AT						
+		28q	258.	12.25	50.	16.	5.	.32
	ROUTED TO						
+		S28q	257.	12.25	50.	16.	5.	.32
	HYDROGRAPH AT						
+		BD28pP	279.	12.25	149.	51.	17.	3.11
	DIVERSION TO						
+		D28pP2	68.	12.25	36.	12.	4.	3.11
	HYDROGRAPH AT						
+		D28pP1	211.	12.25	112.	38.	13.	3.11
	ROUTED TO						
+		P28pS	211.	12.33	112.	38.	13.	3.11
	2 COMBINED AT						
+		C28q	464.	12.33	162.	54.	18.	.82
	DIVERSION TO						
+		D28qP	340.	12.17	154.	52.	17.	.82
	HYDROGRAPH AT						
		D28q	124.	12.33	9.	2.	1.	.82
	DIVERSION TO						
+		D28qS	82.	12.33	5.	1.	0.	.82
	HYDROGRAPH AT						
+		D28qW	42.	12.33	3.	1.	0.	.82
	ROUTED TO						
+		R28qW	19.	13.42	3.	1.	0.	.82
	HYDROGRAPH AT						
+		32q	90.	12.42	19.	5.	2.	.17
	HYDROGRAPH AT						
+		BD32pS	70.	12.92	24.	7.	2.	4.86
	3 COMBINED AT						
+		C32q	143.	12.67	47.	13.	4.	.99
	ROUTED TO						
+		S32q	65.	14.08	41.	11.	4.	.99
	DIVERSION TO						
+		D32q	33.	14.08	15.	4.	1.	.99
	HYDROGRAPH AT						
+		D32qP	32.	12.67	27.	7.	2.	.99
	ROUTED TO						
+		P32qW	32.	12.75	27.	7.	2.	.99
	2 COMBINED AT						
+		C32pqW	442.	13.33	180.	55.	18.	4.86
	HYDROGRAPH AT						
+		36p	113.	12.33	22.	7.	2.	.19
	HYDROGRAPH AT						
		BD36oS	109.	12.92	31.	8.	3.	6.12
	ROUTED TO						
+		R36oS	109.	13.08	31.	8.	3.	6.12

+	3 COMBINED AT	C36p	582.	12.75	230.	69.	23.	6.91
+	DIVERSION TO	DB36p	3.	13.17	0.	0.	0.	6.91
+	HYDROGRAPH AT	E36p	582.	12.75	230.	69.	23.	6.91
+	HYDROGRAPH AT	BDB36p	3.	13.17	0.	0.	0.	6.91
+	ROUTED TO	S36p	0.	.00	0.	0.	0.	6.91
+	HYDROGRAPH AT	BD36oP	139.	12.08	92.	34.	11.	6.12
+	ROUTED TO	P36oS	139.	12.17	92.	34.	11.	6.12
+	3 COMBINED AT	CC36p	721.	12.75	321.	103.	34.	6.91
+	DIVERSION TO	D36pP	613.	12.58	303.	99.	33.	6.91
+	HYDROGRAPH AT	D36p	108.	12.75	17.	4.	1.	6.91
+	ROUTED TO	R36pW	100.	13.25	17.	4.	1.	6.91
+	HYDROGRAPH AT	BD36pP	613.	12.58	303.	99.	33.	6.91
+	DIVERSION TO	D36pP2	139.	12.58	69.	22.	7.	6.91
+	HYDROGRAPH AT	D36pP1	474.	12.58	235.	76.	26.	6.91
+	ROUTED TO	P36pW	474.	12.67	235.	76.	26.	6.91
+	2 COMBINED AT	C36pW	574.	13.25	252.	80.	27.	6.91
+	HYDROGRAPH AT	40p	146.	12.33	28.	8.	3.	.22
+	HYDROGRAPH AT	BD40oP	70.	11.92	56.	24.	8.	7.82
+	ROUTED TO	P40oS	70.	12.00	56.	24.	8.	7.82
+	HYDROGRAPH AT	BD40oS	170.	12.92	44.	11.	4.	7.82
+	ROUTED TO	R40oS	170.	13.08	44.	11.	4.	7.82
+	2 COMBINED AT	C40oS	240.	13.08	101.	35.	12.	7.82
+	3 COMBINED AT	C40p	860.	13.08	377.	123.	41.	8.83
+	DIVERSION TO	D40pP	785.	12.75	369.	121.	40.	8.83
+	HYDROGRAPH AT	D40p	75.	13.08	8.	2.	1.	8.83
+	ROUTED TO	R40pW	67.	13.42	8.	2.	1.	8.83
+	HYDROGRAPH AT	BD40pP	785.	12.75	369.	121.	40.	8.83
+	ROUTED TO	P40pW	785.	12.83	369.	121.	40.	8.83
	2 COMBINED AT							

+	C40pW	852.	13.42	377.	123.	41.	8.83
HYDROGRAPH AT	44p	238.	12.42	62.	18.	6.	.41
HYDROGRAPH AT +	BD44oP	124.	12.00	92.	34.	12.	9.68
ROUTED TO +	P44oS	124.	12.17	92.	34.	12.	9.68
HYDROGRAPH AT +	BD44oS	250.	13.08	68.	17.	6.	9.68
ROUTED TO +	R44oS	242.	13.42	68.	17.	6.	9.68
2 COMBINED AT +	C44oS	366.	13.42	160.	51.	17.	9.68
3 COMBINED AT +	C44p	1314.	13.33	591.	190.	64.	11.10
DIVERSION TO +	D44pP	1314.	13.33	591.	190.	64.	11.10
HYDROGRAPH AT +	D44p	0.	.00	0.	0.	0.	11.10
ROUTED TO +	R44pW	0.	.00	0.	0.	0.	11.10
HYDROGRAPH AT +	BD44pP	1314.	13.33	591.	190.	64.	11.10
DIVERSION TO +	D44pP2	121.	13.33	55.	18.	6.	11.10
HYDROGRAPH AT +	D44pP1	1193.	13.33	537.	172.	58.	11.10
ROUTED TO	P44pW	1191.	13.33	537.	172.	58.	11.10
2 COMBINED AT +	C44pW	1191.	13.33	537.	172.	58.	11.10
HYDROGRAPH AT +	48o	406.	12.42	93.	27.	9.	.68
HYDROGRAPH AT +	BD52mS	435.	13.17	109.	27.	9.	12.24
ROUTED TO +	R52mS	419.	13.50	109.	27.	9.	12.24
HYDROGRAPH AT +	BD52mP	364.	12.17	217.	69.	23.	12.24
ROUTED TO +	P52mS	364.	12.42	217.	69.	23.	12.24
2 COMBINED AT +	C52mS	783.	13.50	326.	96.	32.	12.24
3 COMBINED AT +	C48o	2082.	13.33	935.	290.	97.	14.34
DIVERSION TO +	DB48o	0.	.00	0.	0.	0.	14.34
HYDROGRAPH AT +	E48o	2082.	13.33	935.	290.	97.	14.34
HYDROGRAPH AT +	BDB48o	0.	.00	0.	0.	0.	14.34
ROUTED TO +	S48o	0.	.00	0.	0.	0.	14.34
2 COMBINED AT	CC48o	2082.	13.33	935.	290.	97.	14.34
DIVERSION TO +	D48oPT	2082.	13.33	935.	290.	97.	14.34

+	HYDROGRAPH AT	D48o	0.	.00	0.	0.	0.	14.34
.	ROUTED TO	R48oW	0.	.00	0.	0.	0.	14.34
+	HYDROGRAPH AT	52o	338.	12.50	91.	27.	9.	.64
+	HYDROGRAPH AT	BD54mP	124.	12.08	72.	25.	8.	1.66
+	ROUTED TO	P54mS	124.	12.25	72.	25.	8.	1.66
+	HYDROGRAPH AT	BD54mS	79.	12.33	21.	5.	2.	1.66
+	ROUTED TO	R54mS	73.	13.33	21.	5.	2.	1.66
+	2 COMBINED AT	C54mS	197.	13.33	93.	30.	10.	1.66
+	3 COMBINED AT	C52o	457.	12.50	182.	57.	19.	2.30
+	DIVERSION TO	D52oP	457.	12.50	182.	57.	19.	2.30
+	HYDROGRAPH AT	D52o	0.	.00	0.	0.	0.	2.30
+	ROUTED TO	R52oW	0.	.00	0.	0.	0.	2.30
+	HYDROGRAPH AT	BD52oP	457.	12.50	182.	57.	19.	2.30
+	ROUTED TO	P52oW	457.	12.50	182.	57.	19.	2.30
+	2 COMBINED AT	C52oW	457.	12.50	182.	57.	19.	2.30
+	HYDROGRAPH AT	56o	289.	12.50	83.	25.	8.	.64
+	HYDROGRAPH AT	BD56mP	433.	12.33	213.	70.	23.	5.50
+	ROUTED TO	P56mS	433.	12.50	213.	70.	23.	5.50
+	HYDROGRAPH AT	BD56mS	69.	12.67	13.	3.	1.	5.50
+	ROUTED TO	R56mS	57.	13.75	13.	3.	1.	5.50
+	2 COMBINED AT	C56mS	490.	13.75	226.	73.	24.	5.50
+	3 COMBINED AT	C56o	1165.	12.50	485.	153.	51.	6.79
+	DIVERSION TO	D56oP	950.	12.33	447.	143.	48.	6.79
+	HYDROGRAPH AT	D56o	215.	12.50	38.	10.	3.	6.79
+	ROUTED TO	R56oW	196.	12.83	38.	10.	3.	6.79
+	HYDROGRAPH AT	BD56oP	950.	12.33	447.	143.	48.	6.79
+	ROUTED TO	P56oW	950.	12.42	447.	144.	48.	6.79
+	2 COMBINED AT	C56oW	1146.	12.83	485.	153.	51.	6.79
+	HYDROGRAPH AT	60o	227.	12.58	74.	24.	8.	.64

+	HYDROGRAPH AT	BD60mP	124.	12.00	95.	39.	13.	6.24
	ROUTED TO	P60mS	124.	12.25	95.	39.	13.	6.24
+	HYDROGRAPH AT	BD60mS	236.	13.00	61.	15.	5.	6.24
+	ROUTED TO	R60mS	221.	13.58	61.	15.	5.	6.24
+	2 COMBINED AT	C60mS	345.	13.58	156.	54.	18.	6.24
+	3 COMBINED AT	C60o	1517.	13.25	709.	230.	77.	8.16
+	DIVERSION TO	D60oPT	1517.	13.25	709.	230.	77.	8.16
+	HYDROGRAPH AT	D60o	0.	.00	0.	0.	0.	8.16
+	ROUTED TO	R60oW	0.	.00	0.	0.	0.	8.16
+	HYDROGRAPH AT	64o	267.	12.58	92.	30.	10.	.65
+	ROUTED TO	S64o	267.	12.67	92.	30.	10.	.65
+	HYDROGRAPH AT	BD64mP	399.	12.25	256.	89.	30.	9.55
+	ROUTED TO	P64mS	399.	12.42	256.	89.	30.	9.55
+	HYDROGRAPH AT	BD64mS	152.	13.17	35.	9.	3.	9.55
+	ROUTED TO	R64mS	142.	13.75	35.	9.	3.	9.55
+	2 COMBINED AT	C64mS	541.	13.75	290.	98.	33.	9.55
+	3 COMBINED AT	C64o	684.	13.50	374.	126.	42.	12.13
+	DIVERSION TO	D64oPT	684.	13.50	374.	126.	42.	12.13
+	HYDROGRAPH AT	D64o	0.	.00	0.	0.	0.	12.13
+	ROUTED TO	R64oW	0.	.00	0.	0.	0.	12.13
+	HYDROGRAPH AT	68o	377.	12.50	106.	31.	10.	.69
+	ROUTED TO	S68o	331.	12.92	91.	25.	8.	.69
+	HYDROGRAPH AT	BD68mP	144.	11.92	118.	44.	15.	16.15
+	ROUTED TO	P68mS	144.	12.25	118.	44.	15.	16.15
+	HYDROGRAPH AT	BD68mS	402.	13.00	139.	35.	12.	16.15
+	ROUTED TO	R68mS	383.	13.50	139.	35.	12.	16.15
	2 COMBINED AT	C68mS	527.	13.50	256.	78.	26.	16.15
+	3 COMBINED AT	C68o	755.	13.33	338.	101.	34.	16.84
	DIVERSION TO							

+		D68oPT	755.	13.33	338.	101.	34.	16.84
+	HYDROGRAPH AT	D68o	0.	.00	0.	0.	0.	16.84
+	ROUTED TO	R68oW	0.	.00	0.	0.	0.	16.84
+	HYDROGRAPH AT	72o	408.	12.50	101.	27.	9.	.66
+	3 COMBINED AT	C72o	1035.	13.67	673.	230.	77.	17.78
+	DIVERSION TO	D72oP	433.	12.08	398.	161.	54.	17.78
+	HYDROGRAPH AT	D72o	602.	13.67	276.	69.	23.	17.78
+	ROUTED TO	S72o	601.	13.67	276.	69.	23.	17.78
+	DIVERSION TO	D72o1	53.	13.67	10.	3.	1.	17.78
+	HYDROGRAPH AT	D72oPT	548.	13.67	266.	66.	22.	17.78
+	ROUTED TO	PT72oE	548.	13.75	266.	66.	22.	17.78
+	HYDROGRAPH AT	B68oPT	755.	13.33	338.	101.	34.	16.84
+	2 COMBINED AT	CPT68o	1294.	13.33	600.	166.	56.	18.47
+	ROUTED TO	PT68oE	1294.	13.33	600.	166.	56.	18.47
+	HYDROGRAPH AT	BD72o1	53.	13.67	10.	3.	1.	17.78
+	DIVERSION TO	D72oW	0.	.00	0.	0.	0.	17.78
+	HYDROGRAPH AT	D72oE	53.	13.67	10.	3.	1.	17.78
+	ROUTED TO	S-I10	18.	14.33	9.	3.	1.	17.78
+	HYDROGRAPH AT	B64oPT	684.	13.50	374.	126.	42.	12.13
+	HYDROGRAPH AT	B60oPT	1517.	13.25	709.	230.	77.	8.16
+	ROUTED TO	PT60oW	1514.	13.25	710.	230.	77.	8.16
+	4 COMBINED AT	C-WT	3391.	13.33	1639.	509.	171.	21.04
+	ROUTED TO	PT64o	3389.	13.33	1639.	509.	171.	21.04
+	DIVERSION TO	DPT64o	3389.	13.33	1639.	509.	171.	21.04
+	HYDROGRAPH AT	DN_64o	0.	.00	0.	0.	0.	21.04
+	HYDROGRAPH AT	36q	228.	12.33	48.	14.	5.	.27
+	HYDROGRAPH AT	BD32q	33.	14.08	15.	4.	1.	.99
+	ROUTED TO	R32qS	33.	14.33	15.	4.	1.	.99
+	HYDROGRAPH AT	B36pP2	139.	12.58	69.	22.	7.	6.91

	ROUTED TO						
+		P36pS	139.	12.75	69.	22.	7.	6.91
	3 COMBINED AT						
		C36q	321.	12.58	131.	40.	13.	1.56
	DIVERSION TO						
+		D36qP	295.	12.33	130.	39.	13.	1.56
	HYDROGRAPH AT						
+		D36q	26.	12.58	2.	0.	0.	1.56
	DIVERSION TO						
+		D36qS	11.	12.58	1.	0.	0.	1.56
	HYDROGRAPH AT						
+		D36qW	15.	12.58	1.	0.	0.	1.56
	ROUTED TO						
+		R36qW	7.	13.00	1.	0.	0.	1.56
	HYDROGRAPH AT						
+		40q	283.	12.33	64.	19.	6.	.35
	2 COMBINED AT						
+		C40q	278.	12.33	64.	18.	6.	1.91
	DIVERSION TO						
+		D40qP	32.	11.75	20.	8.	3.	1.91
	HYDROGRAPH AT						
+		D40q	246.	12.33	43.	11.	4.	1.91
	DIVERSION TO						
+		D40qS	150.	12.33	26.	7.	2.	1.91
	HYDROGRAPH AT						
+		D40qW	96.	12.33	17.	4.	1.	1.91
	ROUTED TO						
+		R40qW	89.	12.67	17.	4.	1.	1.91
	HYDROGRAPH AT						
		BD40qP	32.	11.75	20.	8.	3.	1.91
	ROUTED TO						
+		P40qW	32.	11.92	20.	8.	3.	1.91
	2 COMBINED AT						
+		C40qW	121.	12.67	37.	12.	4.	1.91
	HYDROGRAPH AT						
+		44q	284.	12.33	73.	23.	8.	.36
	HYDROGRAPH AT						
+		B44pP2	121.	13.33	55.	18.	6.	11.10
	ROUTED TO						
+		P44pS	121.	13.42	55.	18.	6.	11.10
	3 COMBINED AT						
+		C44q	466.	12.58	164.	52.	17.	2.57
	DIVERSION TO						
+		D44qP	201.	12.08	117.	40.	14.	2.57
	HYDROGRAPH AT						
+		D44q	265.	12.58	47.	12.	4.	2.57
	DIVERSION TO						
+		D44qS	165.	12.58	29.	7.	2.	2.57
	HYDROGRAPH AT						
+		D44qW	101.	12.58	18.	4.	1.	2.57
	ROUTED TO						
+		R44qW	95.	12.83	18.	4.	1.	2.57
	HYDROGRAPH AT						
+		48q	206.	12.42	54.	15.	5.	.30
	2 COMBINED AT						
		C48q	267.	12.75	70.	19.	6.	2.87
	DIVERSION TO						
+		D48qPT	267.	12.75	70.	19.	6.	2.87

+	HYDROGRAPH AT	DB48q	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	S48q	0.	.00	0.	0.	0.	2.87
+	DIVERSION TO	D48qS	0.	.00	0.	0.	0.	2.87
+	HYDROGRAPH AT	D48qW	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	R48qW	0.	.00	0.	0.	0.	2.87
+	HYDROGRAPH AT	52q	251.	12.50	71.	21.	7.	.39
+	2 COMBINED AT	C52q	251.	12.50	71.	21.	7.	.39
+	DIVERSION TO	D52qP	191.	12.25	66.	20.	7.	.39
+	HYDROGRAPH AT	D52q	60.	12.50	5.	1.	0.	.39
+	DIVERSION TO	D52qS	31.	12.50	3.	1.	0.	.39
+	HYDROGRAPH AT	D52qW	29.	12.50	2.	1.	0.	.39
+	ROUTED TO	R52qW	20.	13.08	2.	1.	0.	.39
+	HYDROGRAPH AT	56q	204.	12.42	49.	14.	5.	.35
+	2 COMBINED AT	C56q	202.	12.42	51.	15.	5.	.75
+	DIVERSION TO	D56qP	68.	12.08	31.	10.	3.	.75
+	HYDROGRAPH AT	D56q	134.	12.42	20.	5.	2.	.75
+	DIVERSION TO	D56qS	44.	12.42	7.	2.	1.	.75
+	HYDROGRAPH AT	D56qW	90.	12.42	14.	3.	1.	.75
+	ROUTED TO	R56qW	76.	13.00	14.	3.	1.	.75
+	HYDROGRAPH AT	60q	215.	12.42	46.	14.	5.	.35
+	2 COMBINED AT	C60q	225.	12.75	59.	17.	6.	1.10
+	DIVERSION TO	D60qP	225.	12.75	59.	17.	6.	1.10
+	HYDROGRAPH AT	D60q	0.	.00	0.	0.	0.	1.10
+	DIVERSION TO	D60qS	0.	.00	0.	0.	0.	1.10
+	HYDROGRAPH AT	D60qW	0.	.00	0.	0.	0.	1.10
+	ROUTED TO	R60qW	0.	.00	0.	0.	0.	1.10
+	HYDROGRAPH AT	64q	316.	12.42	72.	22.	7.	.41
+	3 COMBINED AT	C64q	312.	12.42	71.	22.	7.	1.51
	DIVERSION TO							

+		D64qPT	0.	.00	0.	0.	0.	1.51
+	HYDROGRAPH AT	D64q	312.	12.42	71.	22.	7.	1.51
+	DIVERSION TO	D64qP	68.	11.92	36.	13.	4.	1.51
+	HYDROGRAPH AT	D64q1	244.	12.42	35.	9.	3.	1.51
+	DIVERSION TO	D64qS	81.	12.42	12.	3.	1.	1.51
+	HYDROGRAPH AT	D64qW	163.	12.42	23.	6.	2.	1.51
+	ROUTED TO	R64qW	147.	12.75	23.	6.	2.	1.51
+	HYDROGRAPH AT	BD64qP	68.	11.92	36.	13.	4.	1.51
+	ROUTED TO	P64qW	68.	12.00	36.	13.	4.	1.51
+	2 COMBINED AT	C64qW	215.	12.75	59.	19.	6.	1.51
+	HYDROGRAPH AT	68q	220.	12.33	48.	15.	5.	.29
+	2 COMBINED AT	C68q	387.	12.67	106.	33.	11.	1.80
+	DIVERSION TO	D68qP	68.	11.83	45.	18.	6.	1.80
+	HYDROGRAPH AT	D68q	319.	12.67	61.	15.	5.	1.80
	DIVERSION TO	D68qS	105.	12.67	20.	5.	2.	1.80
+	HYDROGRAPH AT	D68qW	214.	12.67	41.	10.	3.	1.80
+	ROUTED TO	R68qW	201.	12.92	41.	10.	3.	1.80
+	HYDROGRAPH AT	BD68qP	68.	11.83	45.	18.	6.	1.80
+	ROUTED TO	P68qW	68.	12.00	45.	18.	6.	1.80
+	2 COMBINED AT	C68qW	269.	12.92	85.	28.	10.	1.80
+	HYDROGRAPH AT	72q	252.	12.42	58.	17.	6.	.33
+	HYDROGRAPH AT	B72oP	433.	12.08	398.	161.	54.	17.78
+	ROUTED TO	P72oS	433.	12.17	398.	161.	54.	17.78
+	3 COMBINED AT	C72q	894.	12.75	540.	209.	71.	3.13
+	DIVERSION TO	D72qP	662.	12.17	506.	201.	68.	3.13
+	HYDROGRAPH AT	D72q	232.	12.75	34.	8.	3.	3.13
+	DIVERSION TO	D72qS	77.	12.75	11.	3.	1.	3.13
	HYDROGRAPH AT	D72qW	156.	12.75	23.	6.	2.	3.13
+	ROUTED TO	R72qW	142.	13.08	23.	6.	2.	3.13

+	HYDROGRAPH AT	80o	527.	12.33	99.	29.	10.	.54
+	HYDROGRAPH AT	BD84mP	247.	12.33	74.	26.	9.	.29
+	ROUTED TO	P84mS	247.	12.33	74.	26.	9.	.29
+	HYDROGRAPH AT	BD84mS	273.	13.50	134.	35.	12.	5.49
+	ROUTED TO	R84mS	270.	13.83	133.	35.	12.	5.49
+	2 COMBINED AT	C84mS	362.	13.25	200.	61.	20.	5.49
+	HYDROGRAPH AT	BD80mS	511.	13.67	242.	65.	22.	6.03
+	ROUTED TO	R80mS	510.	13.75	241.	65.	22.	6.03
+	3 COMBINED AT	C80o	970.	12.42	533.	154.	51.	6.58
+	DIVERSION TO	DB80o	721.	12.42	312.	78.	26.	6.58
+	HYDROGRAPH AT	E80o	249.	11.92	221.	76.	25.	6.58
+	HYDROGRAPH AT	BDB80o	721.	12.42	312.	78.	26.	6.58
+	ROUTED TO	S80o	716.	13.17	295.	78.	26.	6.58
+	2 COMBINED AT	CC80o	965.	13.17	514.	153.	51.	6.58
+	DIVERSION TO	D80oP	249.	11.92	230.	83.	28.	6.58
+	HYDROGRAPH AT	D80o	716.	13.17	283.	71.	24.	6.58
+	ROUTED TO	R80oS	710.	13.42	283.	71.	24.	6.58
+	HYDROGRAPH AT	76o	442.	12.50	118.	34.	11.	.67
+	HYDROGRAPH AT	BD76m	746.	12.83	325.	81.	27.	6.71
+	ROUTED TO	R76mS	743.	13.67	324.	81.	27.	6.71
+	HYDROGRAPH AT	B76mP2	32.	11.92	29.	10.	3.	6.71
+	ROUTED TO	P76mS	32.	12.17	29.	10.	3.	6.71
+	2 COMBINED AT	C76mS	775.	13.67	353.	91.	30.	6.71
+	HYDROGRAPH AT	BD72oW	0.	.00	0.	0.	0.	17.78
+	ROUTED TO	R72oW	0.	.00	0.	0.	0.	17.78
+	4 COMBINED AT	C76o	1713.	13.17	746.	194.	65.	7.92
+	DIVERSION TO	D76o	1484.	13.17	555.	139.	46.	7.92
+	HYDROGRAPH AT	D76oP	229.	12.08	191.	56.	19.	7.92
+	ROUTED TO	P76oS	229.	12.25	191.	56.	19.	7.92

+	HYDROGRAPH AT	BD76o	1484.	13.17	555.	139.	46.	7.92
	DIVERSION TO	D76oW	148.	13.17	56.	14.	5.	7.92
+	HYDROGRAPH AT	D76oS	1336.	13.17	500.	125.	42.	7.92
+	ROUTED TO	R76oS	1322.	13.42	499.	125.	42.	7.92
+	2 COMBINED AT	C76oS	1551.	13.42	690.	181.	60.	7.92
+	HYDROGRAPH AT	76q	380.	12.33	80.	24.	8.	.40
+	3 COMBINED AT	C76q	1751.	13.25	774.	206.	69.	11.45
+	DIVERSION TO	D76qP	229.	12.00	202.	63.	21.	11.45
+	HYDROGRAPH AT	D76q	1522.	13.25	572.	143.	48.	11.45
+	DIVERSION TO	D76qS	791.	13.25	298.	74.	25.	11.45
+	HYDROGRAPH AT	D76qW	731.	13.25	275.	69.	23.	11.45
+	ROUTED TO	R76qW	720.	13.42	274.	69.	23.	11.45
+	HYDROGRAPH AT	80p	381.	12.33	80.	26.	9.	.40
+	HYDROGRAPH AT	BD76oW	148.	13.17	56.	14.	5.	7.92
	ROUTED TO	R76oW	147.	13.33	56.	14.	5.	7.92
+	2 COMBINED AT	C80p	381.	12.33	138.	40.	13.	8.32
+	ROUTED TO	S80p	363.	12.42	132.	37.	13.	8.32
+	HYDROGRAPH AT	BD80oP	249.	11.92	230.	83.	28.	6.58
+	ROUTED TO	P80oS	249.	12.08	230.	83.	28.	6.58
+	2 COMBINED AT	CC80p	612.	12.42	360.	119.	41.	8.32
+	DIVERSION TO	D80pP	249.	11.92	235.	87.	30.	8.32
+	HYDROGRAPH AT	D80p	363.	12.42	125.	31.	10.	8.32
+	ROUTED TO	R80pS	326.	13.00	124.	31.	10.	8.32
+	HYDROGRAPH AT	BD80pP	249.	11.92	235.	87.	30.	8.32
+	ROUTED TO	P80pS	249.	12.17	235.	87.	30.	8.32
+	2 COMBINED AT	C80pS	575.	13.00	359.	119.	41.	8.32
+	HYDROGRAPH AT	80q	314.	12.50	93.	27.	9.	.50
+	3 COMBINED AT	C80q	1410.	13.33	715.	212.	72.	12.34
	HYDROGRAPH AT							

+		28s	168.	12.25	28.	9.	3.	.16
+	HYDROGRAPH AT	BD28qP	340.	12.17	154.	52.	17.	.82
+	DIVERSION TO	D28qP2	32.	12.17	14.	5.	2.	.82
+	HYDROGRAPH AT	D28qP1	308.	12.17	139.	47.	16.	.82
+	ROUTED TO	P28qS	308.	12.25	139.	47.	16.	.82
+	HYDROGRAPH AT	BD28qS	82.	12.33	5.	1.	0.	.82
+	ROUTED TO	R28qS	71.	12.42	5.	1.	0.	.82
+	2 COMBINED AT	C28qS	379.	12.42	144.	48.	16.	.82
+	2 COMBINED AT	C28s	522.	12.33	171.	57.	19.	.98
+	DIVERSION TO	D28sP	492.	12.25	170.	57.	19.	.98
+	HYDROGRAPH AT	D28s	30.	12.33	1.	0.	0.	.98
+	DIVERSION TO	D28sS	13.	12.33	0.	0.	0.	.98
+	HYDROGRAPH AT	D28sW	17.	12.33	1.	0.	0.	.98
+	ROUTED TO	R28sW	5.	12.83	1.	0.	0.	.98
+	HYDROGRAPH AT	32s	239.	12.42	63.	20.	7.	.34
+	2 COMBINED AT	C32s	236.	12.42	63.	20.	7.	1.32
+	ROUTED TO	S32s	191.	12.83	42.	12.	4.	1.32
+	DIVERSION TO	D32sP	48.	12.67	24.	7.	2.	1.32
+	HYDROGRAPH AT	D32s	143.	12.83	18.	4.	1.	1.32
+	ROUTED TO	R32sW	117.	13.17	18.	4.	1.	1.32
+	HYDROGRAPH AT	BD32sP	48.	12.67	24.	7.	2.	1.32
+	ROUTED TO	P32sW	48.	12.75	24.	7.	2.	1.32
+	2 COMBINED AT	C32sW	165.	13.17	42.	12.	4.	1.32
+	HYDROGRAPH AT	36s	217.	12.33	48.	14.	5.	.24
+	HYDROGRAPH AT	BD36qP	295.	12.33	130.	39.	13.	1.56
+	ROUTED TO	P36qS	295.	12.42	130.	39.	13.	1.56
+	HYDROGRAPH AT	BD36qS	11.	12.58	1.	0.	0.	1.56
+	ROUTED TO	R36qS	6.	12.92	1.	0.	0.	1.56
+	2 COMBINED AT	C36qS	298.	12.67	130.	40.	13.	1.56

+	3 COMBINED AT	C36s	508.	12.67	216.	65.	22.	2.30
	DIVERSION TO	D36sP	303.	12.08	171.	54.	18.	2.30
+	HYDROGRAPH AT	D36s	205.	12.67	44.	11.	4.	2.30
+	ROUTED TO	R36sW	188.	12.83	44.	11.	4.	2.30
+	HYDROGRAPH AT	40s	221.	12.33	52.	16.	5.	.24
+	HYDROGRAPH AT	BD40qS	150.	12.33	26.	7.	2.	1.91
+	ROUTED TO	R40qS	141.	12.58	26.	7.	2.	1.91
+	3 COMBINED AT	C40s	487.	12.58	120.	33.	11.	2.89
+	DIVERSION TO	D40sP	68.	11.92	38.	12.	4.	2.89
+	HYDROGRAPH AT	D40s	419.	12.58	82.	21.	7.	2.89
+	ROUTED TO	R40sW	390.	12.92	82.	21.	7.	2.89
+	HYDROGRAPH AT	BD40sP	68.	11.92	38.	12.	4.	2.89
+	ROUTED TO	P40sW	68.	12.08	38.	12.	4.	2.89
+	2 COMBINED AT	C40sW	458.	12.92	120.	33.	11.	2.89
	HYDROGRAPH AT	44s	197.	12.42	50.	15.	5.	.24
+	HYDROGRAPH AT	BD44qP	201.	12.08	117.	40.	14.	2.57
+	ROUTED TO	P44qS	201.	12.17	117.	40.	14.	2.57
+	HYDROGRAPH AT	BD44qS	165.	12.58	29.	7.	2.	2.57
+	ROUTED TO	R44qS	156.	12.83	29.	7.	2.	2.57
+	2 COMBINED AT	C44qS	357.	12.83	146.	48.	16.	2.57
+	3 COMBINED AT	C44s	954.	12.83	313.	95.	32.	3.79
+	DIVERSION TO	D44sP	201.	11.92	138.	51.	17.	3.79
+	HYDROGRAPH AT	D44s	753.	12.83	175.	44.	15.	3.79
+	ROUTED TO	R44sW	741.	13.00	175.	44.	15.	3.79
+	HYDROGRAPH AT	48s	194.	12.33	44.	14.	5.	.21
+	HYDROGRAPH AT	BD48qS	0.	.00	0.	0.	0.	2.87
+	ROUTED TO	R48qS	0.	.00	0.	0.	0.	2.87
	3 COMBINED AT	C48s	841.	12.92	217.	57.	19.	4.31
+	DIVERSION TO	D48sPT	841.	12.92	217.	57.	19.	4.31

+	HYDROGRAPH AT	DB48s	0.	.00	0.	0.	0.	4.31
+	ROUTED TO	S48s	0.	.00	0.	0.	0.	4.31
+	ROUTED TO	R48sW	0.	.00	0.	0.	0.	4.31
+	HYDROGRAPH AT	52s	230.	12.33	55.	17.	6.	.26
+	HYDROGRAPH AT	BD52qP	191.	12.25	66.	20.	7.	.39
+	ROUTED TO	P52qS	191.	12.33	66.	20.	7.	.39
+	HYDROGRAPH AT	BD52qS	31.	12.50	3.	1.	0.	.39
+	ROUTED TO	R52qS	22.	13.00	3.	1.	0.	.39
+	2 COMBINED AT	C52qS	212.	12.92	68.	21.	7.	.39
+	3 COMBINED AT	C52s	419.	12.33	122.	37.	12.	.66
+	DIVERSION TO	D52sP	191.	12.08	88.	29.	10.	.66
+	HYDROGRAPH AT	D52s	228.	12.33	35.	9.	3.	.66
+	ROUTED TO	R52sW	218.	12.67	35.	9.	3.	.66
+	HYDROGRAPH AT	56s	233.	12.33	56.	17.	6.	.25
+	HYDROGRAPH AT	BD56qP	68.	12.08	31.	10.	3.	.75
+	ROUTED TO	P56qS	68.	12.17	31.	10.	3.	.75
+	HYDROGRAPH AT	BD56qS	44.	12.42	7.	2.	1.	.75
+	ROUTED TO	R56qS	40.	12.83	7.	2.	1.	.75
+	2 COMBINED AT	C56qS	108.	12.83	38.	11.	4.	.75
+	3 COMBINED AT	C56s	504.	12.67	127.	36.	12.	1.27
+	DIVERSION TO	D56sP	201.	12.08	86.	26.	9.	1.27
+	HYDROGRAPH AT	D56s	303.	12.67	41.	10.	3.	1.27
+	DIVERSION TO	D56sS	45.	12.67	6.	2.	1.	1.27
+	HYDROGRAPH AT	D56sW	258.	12.67	35.	9.	3.	1.27
+	ROUTED TO	R56sW	237.	12.92	35.	9.	3.	1.27
+	HYDROGRAPH AT	60s	257.	12.25	55.	17.	6.	.25
+	HYDROGRAPH AT	BD60qP	225.	12.75	59.	17.	6.	1.10
+	ROUTED TO	P60qS	225.	12.75	59.	17.	6.	1.10
	HYDROGRAPH AT							

+	BD60qS	0.	.00	0.	0.	0.	1.10
ROUTED TO	R60qS	0.	.00	0.	0.	0.	1.10
2 COMBINED AT +	C60qS	225.	12.75	59.	17.	6.	1.10
3 COMBINED AT +	C60s	588.	12.83	147.	42.	14.	1.87
DIVERSION TO +	D60sP	217.	12.08	90.	28.	9.	1.87
HYDROGRAPH AT +	D60s	371.	12.83	57.	14.	5.	1.87
DIVERSION TO +	D60sS	104.	12.83	16.	4.	1.	1.87
HYDROGRAPH AT +	D60sW	267.	12.83	41.	10.	3.	1.87
ROUTED TO +	R60sW	246.	13.08	41.	10.	3.	1.87
HYDROGRAPH AT +	BD60sP	217.	12.08	90.	28.	9.	1.87
ROUTED TO +	P60sW	217.	12.17	90.	28.	9.	1.87
2 COMBINED AT +	C60sW	463.	13.08	131.	38.	13.	1.87
HYDROGRAPH AT +	64s	257.	12.33	57.	19.	6.	.26
HYDROGRAPH AT +	BD64qS	81.	12.42	12.	3.	1.	1.51
ROUTED TO	R64qS	71.	12.75	12.	3.	1.	1.51
3 COMBINED AT +	C64s	634.	12.92	197.	59.	20.	2.54
DIVERSION TO +	D64sPT	0.	.00	0.	0.	0.	2.54
HYDROGRAPH AT +	D64s	634.	12.92	197.	59.	20.	2.54
DIVERSION TO +	D64sP	327.	12.08	142.	45.	15.	2.54
HYDROGRAPH AT +	D64s1	307.	12.92	55.	14.	5.	2.54
DIVERSION TO +	D64sS	129.	12.92	23.	6.	2.	2.54
HYDROGRAPH AT +	D64sW	178.	12.92	32.	8.	3.	2.54
ROUTED TO +	R64sW	175.	13.00	32.	8.	3.	2.54
HYDROGRAPH AT +	68s	203.	12.33	45.	15.	5.	.24
HYDROGRAPH AT +	BD68qS	105.	12.67	20.	5.	2.	1.80
ROUTED TO +	R68qS	99.	12.92	20.	5.	2.	1.80
3 COMBINED AT +	C68s	369.	12.83	96.	28.	9.	3.07
DIVERSION TO	D68sP	124.	12.08	54.	17.	6.	3.07
HYDROGRAPH AT +	D68s	245.	12.83	42.	10.	3.	3.07

+	DIVERSION TO HYDROGRAPH AT	D68sS	69.	12.83	12.	3.	1.	3.07
+	ROUTED TO HYDROGRAPH AT	D68sW	176.	12.83	30.	7.	2.	3.07
+		R68sW	167.	13.08	30.	7.	2.	3.07
+	HYDROGRAPH AT	72s	261.	12.33	55.	16.	5.	.28
+	HYDROGRAPH AT	BD72qP	662.	12.17	506.	201.	68.	3.13
+	DIVERSION TO HYDROGRAPH AT	D72qP2	229.	12.17	175.	70.	23.	3.13
+		D72qP1	433.	12.17	331.	131.	44.	3.13
+	ROUTED TO HYDROGRAPH AT	P72qS1	433.	12.25	331.	131.	44.	3.13
+		B72qP2	229.	12.17	175.	70.	23.	3.13
+	ROUTED TO HYDROGRAPH AT	P72qS2	229.	12.25	175.	70.	23.	3.13
+		BD72qS	77.	12.75	11.	3.	1.	3.13
+	ROUTED TO 3 COMBINED AT	R72qS	70.	13.08	11.	3.	1.	3.13
+		C72qS	732.	13.08	517.	204.	69.	3.13
+	3 COMBINED AT DIVERSION TO	C72s	1009.	13.00	597.	226.	76.	4.68
+		D72sP	662.	12.08	522.	207.	70.	4.68
+	HYDROGRAPH AT DIVERSION TO	D72s	347.	13.00	76.	19.	6.	4.68
+		D72sS	139.	13.00	30.	8.	3.	4.68
+	HYDROGRAPH AT ROUTED TO	D72sW	208.	13.00	45.	11.	4.	4.68
+		R72sW	198.	13.25	45.	11.	4.	4.68
+	HYDROGRAPH AT ROUTED TO	76s	262.	12.33	58.	19.	6.	.28
+		S76s	261.	12.33	58.	18.	6.	.28
+	HYDROGRAPH AT ROUTED TO	BD76qP	229.	12.00	202.	63.	21.	11.45
+		P76qS	229.	12.08	202.	63.	21.	11.45
+	HYDROGRAPH AT ROUTED TO	BD76qS	791.	13.25	298.	74.	25.	11.45
+		R76qS	781.	13.42	297.	74.	25.	11.45
+	2 COMBINED AT 3 COMBINED AT	C76qS	1010.	13.42	499.	137.	46.	11.45
+		C76s	1255.	13.33	591.	164.	55.	13.28
+	DIVERSION TO HYDROGRAPH AT	D76sP	204.	11.92	188.	63.	21.	13.28
+		D76s	1051.	13.33	404.	101.	34.	13.28

+	DIVERSION TO	D76sS	231.	13.33	89.	22.	7.	13.28
	HYDROGRAPH AT	D76sW	820.	13.33	315.	79.	26.	13.28
+	ROUTED TO	R76sW	809.	13.50	315.	79.	26.	13.28
+	2 COMBINED AT	CC80q	2169.	13.42	1021.	288.	97.	14.17
+	DIVERSION TO	D80qP	364.	12.08	339.	118.	40.	14.17
+	HYDROGRAPH AT	D80q	1805.	13.42	683.	171.	57.	14.17
+	DIVERSION TO	D80qW	1805.	13.42	683.	171.	57.	14.17
+	HYDROGRAPH AT	D80qS	0.	.00	0.	0.	0.	14.17
+	ROUTED TO	R80qS	0.	.00	0.	0.	0.	14.17
+	HYDROGRAPH AT	BD80qP	364.	12.08	339.	118.	40.	14.17
+	ROUTED TO	P80qS	364.	12.17	338.	118.	40.	14.17
+	2 COMBINED AT	C80qS	364.	12.17	338.	118.	40.	14.17
+	HYDROGRAPH AT	52t	233.	12.42	56.	17.	6.	.30
+	ROUTED TO	S52t	230.	12.42	55.	15.	5.	.30
+	HYDROGRAPH AT	BD52sP	191.	12.08	88.	29.	10.	.66
+	ROUTED TO	P52sS	191.	12.17	88.	29.	10.	.66
+	2 COMBINED AT	C52t	418.	12.42	141.	43.	15.	.96
+	DIVERSION TO	D52tP	281.	12.08	125.	39.	13.	.96
+	HYDROGRAPH AT	D52t	137.	12.42	17.	4.	1.	.96
+	DIVERSION TO	D52tS	56.	12.42	7.	2.	1.	.96
+	HYDROGRAPH AT	D52tW	81.	12.42	10.	2.	1.	.96
+	ROUTED TO	R52tW	74.	12.75	10.	2.	1.	.96
+	HYDROGRAPH AT	56t	145.	12.33	38.	12.	4.	.18
+	HYDROGRAPH AT	BD56sP	201.	12.08	86.	26.	9.	1.27
+	ROUTED TO	P56sS	201.	12.17	86.	26.	9.	1.27
+	HYDROGRAPH AT	BD56sS	45.	12.67	6.	2.	1.	1.27
	ROUTED TO	R56sS	41.	13.00	6.	2.	1.	1.27
+	2 COMBINED AT	C56sS	242.	13.00	92.	28.	9.	1.27
	3 COMBINED AT							

+	C56t	405.	12.75	138.	42.	14.	1.74
DIVERSION TO +	D56tP	405.	12.75	138.	42.	14.	1.74
HYDROGRAPH AT +	D56t	0.	.00	0.	0.	0.	1.74
DIVERSION TO +	D56tS	0.	.00	0.	0.	0.	1.74
HYDROGRAPH AT +	D56tW	0.	.00	0.	0.	0.	1.74
ROUTED TO +	R56tW	0.	.00	0.	0.	0.	1.74
HYDROGRAPH AT +	60t	240.	12.42	61.	19.	6.	.33
ROUTED TO +	S60t	240.	12.42	61.	19.	6.	.33
HYDROGRAPH AT +	BD60sS	104.	12.83	16.	4.	1.	1.87
ROUTED TO +	R60sS	98.	13.00	16.	4.	1.	1.87
3 COMBINED AT +	C60t	272.	12.67	76.	22.	7.	2.68
DIVERSION TO +	D60tS	73.	12.67	20.	6.	2.	2.68
HYDROGRAPH AT +	D60tW	198.	12.67	55.	16.	5.	2.68
ROUTED TO +	R60tW	196.	12.92	55.	16.	5.	2.68
HYDROGRAPH AT	64t	207.	12.33	49.	16.	5.	.27
HYDROGRAPH AT +	BD64sP	327.	12.08	142.	45.	15.	2.54
ROUTED TO +	P64sS	327.	12.17	142.	45.	15.	2.54
HYDROGRAPH AT +	BD64sS	129.	12.92	23.	6.	2.	2.54
ROUTED TO +	R64sS	126.	13.08	23.	6.	2.	2.54
2 COMBINED AT +	C64sS	453.	13.08	165.	51.	17.	2.54
3 COMBINED AT +	C64t	773.	12.83	267.	82.	28.	3.61
DIVERSION TO +	D64tPT	0.	.00	0.	0.	0.	3.61
HYDROGRAPH AT +	D64t	773.	12.83	267.	82.	28.	3.61
DIVERSION TO +	D64tP	375.	12.08	184.	62.	21.	3.61
HYDROGRAPH AT +	D64t1	398.	12.83	83.	21.	7.	3.61
DIVERSION TO +	D64tS	175.	12.83	37.	9.	3.	3.61
HYDROGRAPH AT +	D64tW	223.	12.83	47.	12.	4.	3.61
ROUTED TO +	R64tW	218.	13.00	47.	12.	4.	3.61
HYDROGRAPH AT +	68t	222.	12.33	46.	14.	5.	.25

+	HYDROGRAPH AT BD68sP	124.	12.08	54.	17.	6.	3.07
	ROUTED TO P68sS	124.	12.17	54.	17.	6.	3.07
+	HYDROGRAPH AT BD68sS	69.	12.83	12.	3.	1.	3.07
+	ROUTED TO R68sS	64.	13.17	12.	3.	1.	3.07
+	2 COMBINED AT C68sS	188.	13.17	66.	20.	7.	3.07
+	3 COMBINED AT C68t	511.	12.83	156.	45.	15.	4.39
+	DIVERSION TO D68tP	124.	12.00	66.	22.	7.	4.39
+	HYDROGRAPH AT D68t	387.	12.83	90.	23.	8.	4.39
+	DIVERSION TO D68tS	178.	12.83	42.	10.	3.	4.39
+	HYDROGRAPH AT D68tW	209.	12.83	49.	12.	4.	4.39
+	ROUTED TO R68tW	204.	13.08	49.	12.	4.	4.39
+	HYDROGRAPH AT 72t	163.	12.42	42.	12.	4.	.22
+	HYDROGRAPH AT BD72sS	139.	13.00	30.	8.	3.	4.68
+	ROUTED TO R72sS	136.	13.08	30.	8.	3.	4.68
	HYDROGRAPH AT BD72sP	662.	12.08	522.	207.	70.	4.68
+	DIVERSION TO D72sP2	229.	12.08	180.	72.	24.	4.68
+	HYDROGRAPH AT D72sP1	433.	12.08	341.	136.	46.	4.68
+	ROUTED TO P72sS1	433.	12.17	341.	136.	46.	4.68
+	HYDROGRAPH AT B72sP2	229.	12.08	180.	72.	24.	4.68
+	ROUTED TO P72sS2	229.	12.17	180.	72.	24.	4.68
+	3 COMBINED AT C72sS	798.	13.08	552.	215.	73.	4.68
+	3 COMBINED AT C72t	1096.	13.00	639.	238.	80.	6.23
+	DIVERSION TO D72tP	714.	12.08	551.	216.	73.	6.23
+	HYDROGRAPH AT D72t	382.	13.00	88.	22.	7.	6.23
+	DIVERSION TO D72tS	202.	13.00	47.	12.	4.	6.23
+	HYDROGRAPH AT D72tW	179.	13.00	41.	10.	3.	6.23
+	ROUTED TO R72tW	175.	13.25	41.	10.	3.	6.23
	HYDROGRAPH AT 76t	222.	12.33	53.	16.	5.	.27
+	HYDROGRAPH AT BD76sP	204.	11.92	188.	63.	21.	13.28

+	ROUTED TO	P76sS	204.	12.00	188.	63.	21.	13.28
+	HYDROGRAPH AT	BD76sS	231.	13.33	89.	22.	7.	13.28
+	ROUTED TO	R76sS	228.	13.58	89.	22.	7.	13.28
+	2 COMBINED AT	C76sS	432.	13.58	276.	85.	29.	13.28
+	3 COMBINED AT	C76t	656.	13.33	362.	110.	37.	15.10
+	DIVERSION TO	D76tP	297.	12.08	257.	83.	28.	15.10
+	HYDROGRAPH AT	D76t	359.	13.33	105.	26.	9.	15.10
+	DIVERSION TO	D76tS	190.	13.33	56.	14.	5.	15.10
+	HYDROGRAPH AT	D76tW	169.	13.33	49.	12.	4.	15.10
+	ROUTED TO	R76tW	165.	13.58	49.	12.	4.	15.10
+	HYDROGRAPH AT	80t	178.	12.33	40.	12.	4.	.25
+	3 COMBINED AT	C80t	575.	13.17	423.	141.	48.	16.24
+	DIVERSION TO	D80tP	364.	12.08	341.	120.	41.	16.24
+	HYDROGRAPH AT	D80t	211.	13.17	82.	20.	7.	16.24
+	ROUTED TO	R80tS	210.	13.25	82.	20.	7.	16.24
+	HYDROGRAPH AT	52u	203.	12.42	45.	12.	4.	.39
+	HYDROGRAPH AT	BD52tS	56.	12.42	7.	2.	1.	.96
+	ROUTED TO	R52tS	47.	12.92	7.	2.	1.	.96
+	2 COMBINED AT	C52u	203.	12.75	51.	14.	5.	1.35
+	ROUTED TO	S52u	89.	13.50	46.	12.	4.	1.35
+	HYDROGRAPH AT	BD52tP	281.	12.08	125.	39.	13.	.96
+	ROUTED TO	P52tS	281.	12.17	125.	39.	13.	.96
+	2 COMBINED AT	CC52u	369.	13.33	169.	51.	17.	1.35
+	DIVERSION TO	D52uP	281.	12.17	152.	47.	16.	1.35
+	HYDROGRAPH AT	D52u	88.	13.33	17.	4.	1.	1.35
+	DIVERSION TO	D52uS	28.	13.33	5.	1.	0.	1.35
+	HYDROGRAPH AT	D52uW	60.	13.33	12.	3.	1.	1.35
+	ROUTED TO	R52uW	57.	13.50	12.	3.	1.	1.35
	HYDROGRAPH AT							

+	56u	164.	12.50	42.	12.	4.	.33
HYDROGRAPH AT +	BD56tS	0.	.00	0.	0.	0.	1.74
ROUTED TO +	R56tS	0.	.00	0.	0.	0.	1.74
3 COMBINED AT +	C56u	164.	12.58	52.	15.	5.	2.46
ROUTED TO +	S56u	162.	12.67	48.	14.	5.	2.46
HYDROGRAPH AT +	BD56tP	405.	12.75	138.	42.	14.	1.74
ROUTED TO +	P56tS	405.	12.75	138.	42.	14.	1.74
2 COMBINED AT +	CC56u	566.	12.75	185.	55.	19.	2.46
DIVERSION TO +	D56uP	566.	12.75	185.	55.	19.	2.46
HYDROGRAPH AT +	D56u	0.	.00	0.	0.	0.	2.46
DIVERSION TO +	D56uS	0.	.00	0.	0.	0.	2.46
HYDROGRAPH AT +	D56uW	0.	.00	0.	0.	0.	2.46
ROUTED TO +	R56uW	0.	.00	0.	0.	0.	2.46
HYDROGRAPH AT +	60u	165.	12.42	38.	11.	4.	.28
HYDROGRAPH AT	BD60tS	73.	12.67	20.	6.	2.	2.68
ROUTED TO +	R60tS	72.	13.08	20.	6.	2.	2.68
3 COMBINED AT +	C60u	194.	12.67	57.	17.	6.	3.68
ROUTED TO +	S60u	192.	12.75	57.	17.	6.	3.68
DIVERSION TO +	D60uP	124.	12.33	49.	15.	5.	3.68
HYDROGRAPH AT +	D60u	68.	12.75	8.	2.	1.	3.68
DIVERSION TO +	D60uS	22.	12.75	3.	1.	0.	3.68
HYDROGRAPH AT +	D60uW	46.	12.75	6.	1.	0.	3.68
ROUTED TO +	R60uW	40.	13.08	6.	1.	0.	3.68
HYDROGRAPH AT +	64u	203.	12.42	48.	15.	5.	.30
HYDROGRAPH AT +	BD64tP	375.	12.08	184.	62.	21.	3.61
ROUTED TO +	P64tS	375.	12.17	184.	62.	21.	3.61
HYDROGRAPH AT +	BD64tS	175.	12.83	37.	9.	3.	3.61
ROUTED TO	R64tS	171.	13.08	37.	9.	3.	3.61
2 COMBINED AT +	C64tS	546.	13.08	221.	71.	24.	3.61

+	3 COMBINED AT	C64u	700.	12.92	272.	86.	29.	4.91
+	DIVERSION TO	D64uPT	0.	.00	0.	0.	0.	4.91
+	HYDROGRAPH AT	D64u	700.	12.92	272.	86.	29.	4.91
+	DIVERSION TO	D64uP	375.	12.08	198.	68.	23.	4.91
+	HYDROGRAPH AT	D64u1	325.	12.92	75.	19.	6.	4.91
+	DIVERSION TO	D64uS	81.	12.92	19.	5.	2.	4.91
+	HYDROGRAPH AT	D64uW	244.	12.92	56.	14.	5.	4.91
+	ROUTED TO	R64uW	239.	13.17	56.	14.	5.	4.91
+	HYDROGRAPH AT	68u	212.	12.42	51.	15.	5.	.28
+	HYDROGRAPH AT	BD68tP	124.	12.00	66.	22.	7.	4.39
+	ROUTED TO	P68tS	124.	12.08	66.	22.	7.	4.39
+	HYDROGRAPH AT	BD68tS	178.	12.83	42.	10.	3.	4.39
+	ROUTED TO	R68tS	174.	13.08	42.	10.	3.	4.39
+	2 COMBINED AT	C68tS	298.	13.08	108.	33.	11.	4.39
+	3 COMBINED AT	C68u	657.	13.00	212.	61.	20.	5.97
+	DIVERSION TO	D68uP	146.	12.00	86.	30.	10.	5.97
+	HYDROGRAPH AT	D68u	511.	13.00	126.	32.	11.	5.97
+	DIVERSION TO	D68uS	107.	13.00	26.	7.	2.	5.97
+	HYDROGRAPH AT	D68uW	404.	13.00	100.	25.	8.	5.97
+	ROUTED TO	R68uW	400.	13.17	100.	25.	8.	5.97
+	HYDROGRAPH AT	72u	198.	12.42	46.	13.	4.	.26
+	2 COMBINED AT	C72u	505.	13.00	144.	38.	13.	6.23
+	HYDROGRAPH AT	BD72tP	714.	12.08	551.	216.	73.	6.23
+	DIVERSION TO	D72tP2	281.	12.08	217.	85.	29.	6.23
+	HYDROGRAPH AT	D72tP1	433.	12.08	334.	131.	44.	6.23
+	ROUTED TO	P72tS1	433.	12.17	334.	131.	44.	6.23
+	HYDROGRAPH AT	B72tP2	281.	12.08	217.	85.	29.	6.23
+	ROUTED TO	P72tS2	281.	12.17	217.	85.	29.	6.23
+	HYDROGRAPH AT	B72tS	202.	13.00	47.	12.	4.	6.23

+	ROUTED TO	R72tS	197.	13.25	47.	12.	4.	6.23
	3 COMBINED AT	C72tS	911.	13.25	598.	228.	77.	6.23
+	2 COMBINED AT	CC72u	1405.	13.08	740.	265.	89.	8.06
+	DIVERSION TO	D72uP	714.	12.08	565.	221.	75.	8.06
+	HYDROGRAPH AT	D72u	691.	13.08	175.	44.	15.	8.06
+	DIVERSION TO	D72uS	214.	13.08	54.	14.	5.	8.06
+	HYDROGRAPH AT	D72uW	477.	13.08	121.	30.	10.	8.06
+	ROUTED TO	R72uW	470.	13.33	121.	30.	10.	8.06
+	HYDROGRAPH AT	BD76tP	297.	12.08	257.	83.	28.	15.10
+	DIVERSION TO	D76tP2	48.	12.08	42.	13.	5.	15.10
+	HYDROGRAPH AT	D76tP1	249.	12.08	216.	70.	23.	15.10
+	ROUTED TO	P76tS1	249.	12.17	216.	70.	23.	15.10
+	HYDROGRAPH AT	B76tP2	48.	12.08	42.	13.	5.	15.10
+	ROUTED TO	P76tS2	48.	12.17	42.	13.	5.	15.10
+	HYDROGRAPH AT	BD76tS	190.	13.33	56.	14.	5.	15.10
+	ROUTED TO	R76tS	186.	13.58	56.	14.	5.	15.10
+	3 COMBINED AT	C76tS	483.	13.58	313.	97.	33.	15.10
+	HYDROGRAPH AT	76u	219.	12.42	50.	14.	5.	.28
+	3 COMBINED AT	C76u	1004.	13.25	472.	139.	46.	17.22
+	DIVERSION TO	D76uP	297.	12.00	262.	86.	29.	17.22
+	HYDROGRAPH AT	D76u	707.	13.25	210.	52.	17.	17.22
+	DIVERSION TO	D76uS	0.	.00	0.	0.	0.	17.22
+	HYDROGRAPH AT	D76uW	707.	13.25	210.	52.	17.	17.22
+	ROUTED TO	R76uW	704.	13.33	210.	52.	17.	17.22
+	HYDROGRAPH AT	80u	213.	12.33	48.	15.	5.	.25
+	3 COMBINED AT	C80u	969.	13.25	333.	86.	29.	18.61
	HYDROGRAPH AT	BD80tP	364.	12.08	341.	120.	41.	16.24
+	ROUTED TO	P80tS	364.	12.17	341.	120.	41.	16.24
	HYDROGRAPH AT							

+	BD80qW	1805.	13.42	683.	171.	57.	14.17
3 COMBINED AT +	CC80u	3075.	13.42	1335.	372.	125.	18.61
ROUTED TO +	S-I17	1428.	14.92	737.	370.	125.	18.61
DIVERSION TO +	D80uP	509.	14.00	509.	313.	106.	18.61
HYDROGRAPH AT +	D80u	919.	14.92	229.	57.	19.	18.61
ROUTED TO +	R80uW	880.	15.17	228.	57.	19.	18.61
HYDROGRAPH AT +	84t	200.	12.42	55.	18.	6.	.27
HYDROGRAPH AT +	P84tN	252.	13.00	64.	19.	6.	.50
2 COMBINED AT +	C84t	381.	13.00	118.	36.	12.	.77
DIVERSION TO +	D84tP	252.	12.33	102.	32.	11.	.77
HYDROGRAPH AT +	D84t	129.	13.00	15.	4.	1.	.77
DIVERSION TO +	D84tW	17.	13.00	2.	1.	0.	.77
HYDROGRAPH AT +	D84tS	112.	13.00	13.	3.	1.	.77
ROUTED TO +	R84tS	93.	13.17	13.	3.	1.	.77
HYDROGRAPH AT +	84u	191.	12.42	47.	14.	5.	.26
3 COMBINED AT +	C84u	1196.	14.92	344.	90.	30.	9.04
ROUTED TO +	S84u	1190.	14.92	342.	90.	30.	9.04
HYDROGRAPH AT +	BD84tP	252.	12.33	102.	32.	11.	.77
ROUTED TO +	P84tS	252.	12.42	102.	32.	11.	.77
2 COMBINED AT +	CC84u	1239.	14.92	438.	123.	41.	9.04
DIVERSION TO +	D84uP	252.	12.25	215.	67.	22.	9.04
HYDROGRAPH AT +	D84u	987.	14.92	223.	56.	19.	9.04
DIVERSION TO +	D84uS	197.	14.92	45.	11.	4.	9.04
HYDROGRAPH AT +	D84uW	790.	14.92	179.	45.	15.	9.04
ROUTED TO +	R84uW	774.	15.08	179.	45.	15.	9.04
HYDROGRAPH AT +	88t	146.	12.50	44.	14.	5.	.26
HYDROGRAPH AT +	BD84tW	17.	13.00	2.	1.	0.	.77
ROUTED TO +	R84tW	12.	13.42	2.	1.	0.	.77
2 COMBINED AT +	C88t	146.	12.50	46.	15.	5.	1.03

	DIVERSION TO						
+		D88tW	43.	12.50	14.	4.	1.	1.03
	HYDROGRAPH AT						
		D88tS	100.	12.50	32.	10.	3.	1.03
	ROUTED TO						
+		R88tS	97.	12.75	32.	10.	3.	1.03
	HYDROGRAPH AT						
+		88u	169.	12.42	47.	14.	5.	.25
	3 COMBINED AT						
+		C88u	803.	15.08	252.	68.	23.	9.55
	DIVERSION TO						
+		D88uP	36.	11.83	34.	13.	4.	9.55
	HYDROGRAPH AT						
+		D88u	767.	15.08	218.	55.	18.	9.55
	DIVERSION TO						
+		D88uS	583.	15.08	166.	41.	14.	9.55
	HYDROGRAPH AT						
+		D88uW	184.	15.08	52.	13.	4.	9.55
	ROUTED TO						
+		R88uW	164.	15.42	52.	13.	4.	9.55
	HYDROGRAPH AT						
+		BD88uP	36.	11.83	34.	13.	4.	9.55
	ROUTED TO						
+		P88uW	36.	11.92	34.	13.	4.	9.55
	2 COMBINED AT						
+		C88uW	200.	15.42	86.	26.	9.	9.55
	HYDROGRAPH AT						
+		92t	85.	12.50	26.	8.	3.	.17
	HYDROGRAPH AT						
		BD88tW	43.	12.50	14.	4.	1.	1.03
	ROUTED TO						
+		R88tW	42.	12.75	14.	4.	1.	1.03
	2 COMBINED AT						
+		C92t	120.	12.67	39.	12.	4.	1.21
	ROUTED TO						
+		R92tS	118.	12.83	39.	12.	4.	1.21
	HYDROGRAPH AT						
+		92u	155.	12.42	43.	14.	5.	.25
	HYDROGRAPH AT						
+		P92uN	141.	13.00	47.	15.	5.	2.50
	4 COMBINED AT						
+		C92u	455.	13.00	210.	65.	22.	10.17
	DIVERSION TO						
+		D92uP	201.	12.17	157.	52.	18.	10.17
	HYDROGRAPH AT						
+		D92u	254.	13.00	53.	13.	4.	10.17
	ROUTED TO						
+		R92uS	251.	13.00	53.	13.	4.	10.17
	HYDROGRAPH AT						
+		B92uP	201.	12.17	157.	52.	18.	10.17
	ROUTED TO						
+		P92uS	201.	12.25	157.	52.	18.	10.17
	2 COMBINED AT						
+		C92uS	452.	13.00	210.	65.	22.	10.17
	HYDROGRAPH AT						
		76v	128.	12.42	37.	12.	4.	.24
	HYDROGRAPH AT						
+		B76uP	297.	12.00	262.	86.	29.	17.22

	DIVERSION TO						
+		D76uP1	249.	12.00	219.	72.	24.	17.22
	HYDROGRAPH AT						
+		D76uP2	48.	12.00	42.	14.	5.	17.22
	ROUTED TO						
+		P76uS2	48.	12.17	42.	14.	5.	17.22
	HYDROGRAPH AT						
+		BD76uS	0.	.00	0.	0.	0.	17.22
	ROUTED TO						
+		R76uS	0.	.00	0.	0.	0.	17.22
	2 COMBINED AT						
+		C76uS	48.	12.17	42.	14.	5.	17.22
	2 COMBINED AT						
+		C76v	171.	12.42	78.	26.	9.	8.24
	DIVERSION TO						
+		D76vP	109.	12.17	70.	24.	8.	8.24
	HYDROGRAPH AT						
+		D76v	62.	12.42	8.	2.	1.	8.24
	DIVERSION TO						
+		D76vS	33.	12.42	4.	1.	0.	8.24
	HYDROGRAPH AT						
+		D76vW	29.	12.42	4.	1.	0.	8.24
	ROUTED TO						
+		R76vW	25.	13.00	4.	1.	0.	8.24
	HYDROGRAPH AT						
+		80v	183.	12.33	48.	15.	5.	.23
	HYDROGRAPH AT						
+		B76uP1	249.	12.00	219.	72.	24.	17.22
	ROUTED TO						
+		P76uS1	249.	12.17	219.	72.	24.	17.22
	3 COMBINED AT						
+		C80v	426.	12.33	269.	89.	30.	8.23
	DIVERSION TO						
+		D80vP	249.	12.00	226.	78.	26.	8.23
	HYDROGRAPH AT						
+		D80v	177.	12.33	44.	11.	4.	8.23
	DIVERSION TO						
+		D80vS	99.	12.33	24.	6.	2.	8.23
	HYDROGRAPH AT						
+		D80vW	78.	12.33	19.	5.	2.	8.23
	ROUTED TO						
+		R80vW	71.	13.08	19.	5.	2.	8.23
	HYDROGRAPH AT						
+		84v	97.	12.50	28.	9.	3.	.25
	HYDROGRAPH AT						
+		BD80uP	509.	14.00	509.	313.	106.	18.61
	ROUTED TO						
+		P80uS	509.	14.17	509.	313.	106.	18.61
	3 COMBINED AT						
+		C84v	592.	13.33	535.	328.	111.	8.73
	HYDROGRAPH AT						
+		BD84uP	252.	12.25	215.	67.	22.	9.04
	ROUTED TO						
+		P84uS	252.	12.33	215.	67.	22.	9.04
	HYDROGRAPH AT						
+		BD84uS	197.	14.92	45.	11.	4.	9.04
	ROUTED TO						

+	R84uS	190.	15.17	45.	11.	4.	9.04
2 COMBINED AT	C84uS	442.	15.17	260.	78.	26.	9.04
2 COMBINED AT +	CC84v	972.	15.17	782.	405.	138.	9.76
DIVERSION TO +	D84vP	972.	15.17	782.	405.	138.	9.76
HYDROGRAPH AT +	D84v	0.	.00	0.	0.	0.	9.76
DIVERSION TO +	D84vS	0.	.00	0.	0.	0.	9.76
HYDROGRAPH AT +	D84vW	0.	.00	0.	0.	0.	9.76
ROUTED TO +	R84vW	0.	.00	0.	0.	0.	9.76
HYDROGRAPH AT +	88v	159.	12.50	49.	15.	5.	.25
HYDROGRAPH AT +	BD88uS	583.	15.08	166.	41.	14.	9.55
ROUTED TO +	R88uS	566.	15.25	166.	41.	14.	9.55
3 COMBINED AT +	C88v	557.	15.25	209.	54.	18.	10.52
DIVERSION TO +	D88vP	51.	12.00	45.	14.	5.	10.52
HYDROGRAPH AT +	D88v	506.	15.25	163.	41.	14.	10.52
ROUTED TO	R88vW	473.	15.50	163.	41.	14.	10.52
HYDROGRAPH AT +	92v	139.	12.33	37.	12.	4.	.16
3 COMBINED AT +	C92v	816.	13.08	399.	116.	39.	11.30
DIVERSION TO +	D92v	615.	13.08	219.	55.	18.	11.30
HYDROGRAPH AT +	D92vP	201.	12.08	180.	61.	21.	11.30
ROUTED TO +	P92vS	201.	12.25	180.	61.	21.	11.30
HYDROGRAPH AT +	88w	349.	12.50	94.	30.	10.	.60
HYDROGRAPH AT +	BD88vP	51.	12.00	45.	14.	5.	10.52
ROUTED TO +	P88vS	51.	12.08	45.	14.	5.	10.52
3 COMBINED AT +	C88w	586.	12.50	313.	103.	35.	11.90
HYDROGRAPH AT +	44v	68.	12.50	20.	6.	2.	.24
HYDROGRAPH AT +	BD44sP	201.	11.92	138.	51.	17.	3.79
ROUTED TO +	P44sS	201.	12.17	139.	51.	17.	3.79
2 COMBINED AT	C44v	266.	12.50	158.	58.	19.	4.03
HYDROGRAPH AT +	B48oPT	2082.	13.33	935.	290.	97.	14.34

+	ROUTED TO PT48o	2080.	13.33	935.	290.	97.	14.34
+	HYDROGRAPH AT B48qPT	267.	12.75	70.	19.	6.	2.87
+	2 COMBINED AT CPT48q	2222.	13.25	993.	306.	102.	16.11
+	ROUTED TO PT48q	2220.	13.25	994.	306.	102.	16.11
+	HYDROGRAPH AT B48sPT	841.	12.92	217.	57.	19.	4.31
+	2 COMBINED AT CPT48s	2943.	13.08	1189.	357.	120.	17.54
+	ROUTED TO PT48s	2940.	13.17	1189.	358.	120.	17.54
+	HYDROGRAPH AT 48v	177.	12.42	54.	19.	6.	.30
+	2 COMBINED AT C48v	3038.	13.08	1238.	375.	125.	17.84
+	2 COMBINED AT NUL48v	3280.	13.08	1390.	430.	144.	18.08
+	HYDROGRAPH AT 52v	93.	12.50	26.	8.	3.	.30
+	HYDROGRAPH AT BD52uP	281.	12.17	152.	47.	16.	1.35
+	ROUTED TO P52uS	281.	12.25	152.	47.	16.	1.35
+	HYDROGRAPH AT BD52uS	28.	13.33	5.	1.	0.	1.35
+	ROUTED TO R52uS	26.	13.50	5.	1.	0.	1.35
+	2 COMBINED AT C52uS	307.	13.50	157.	48.	16.	1.35
+	2 COMBINED AT C52v	373.	12.58	182.	56.	19.	1.64
+	2 COMBINED AT NUL52v	3622.	13.08	1555.	481.	161.	19.72
+	HYDROGRAPH AT 56v	98.	12.50	30.	9.	3.	.23
+	HYDROGRAPH AT BD56uP	566.	12.75	185.	55.	19.	2.46
+	ROUTED TO P56uS	565.	12.75	185.	55.	19.	2.46
+	HYDROGRAPH AT BD56uS	0.	.00	0.	0.	0.	2.46
+	ROUTED TO R56uS	0.	.00	0.	0.	0.	2.46
+	2 COMBINED AT C56uS	565.	12.75	185.	55.	19.	2.46
+	2 COMBINED AT C56v	654.	12.75	214.	64.	22.	2.69
+	2 COMBINED AT NUL56v	4188.	13.00	1751.	540.	181.	21.07
+	HYDROGRAPH AT 60v	127.	12.42	37.	12.	4.	.23
+	HYDROGRAPH AT BD60uP	124.	12.33	49.	15.	5.	3.68
+	ROUTED TO P60uS	124.	12.42	49.	15.	5.	3.68

	HYDROGRAPH AT						
+		BD60uS	22.	12.75	3.	1.	0.	3.68
	ROUTED TO						
		R60uS	20.	13.08	3.	1.	0.	3.68
	2 COMBINED AT						
+		C60uS	144.	13.08	51.	15.	5.	3.68
	2 COMBINED AT						
+		C60v	247.	12.50	87.	27.	9.	3.91
	2 COMBINED AT						
+		NUL60v	4398.	13.00	1826.	564.	189.	22.51
	HYDROGRAPH AT						
+		BPT64o	3389.	13.33	1639.	509.	171.	21.04
	HYDROGRAPH AT						
+		B64qPT	0.	.00	0.	0.	0.	1.51
	2 COMBINED AT						
+		CPT64q	3389.	13.33	1639.	509.	171.	22.55
	ROUTED TO						
+		PT64q	3373.	13.33	1631.	507.	170.	22.55
	HYDROGRAPH AT						
+		B64sPT	0.	.00	0.	0.	0.	2.54
	2 COMBINED AT						
+		CPT64s	3373.	13.33	1631.	507.	170.	23.58
	ROUTED TO						
+		PT64s	3363.	13.42	1625.	505.	169.	23.58
	HYDROGRAPH AT						
+		B64tPT	0.	.00	0.	0.	0.	3.61
	2 COMBINED AT						
+		CPT64t	3363.	13.42	1625.	505.	169.	24.65
	ROUTED TO						
+		PT64t	3354.	13.42	1620.	504.	169.	24.65
	HYDROGRAPH AT						
+		B64uPT	0.	.00	0.	0.	0.	4.91
	2 COMBINED AT						
+		CPT64u	3354.	13.42	1620.	504.	169.	25.95
	ROUTED TO						
+		PT64u	3343.	13.42	1614.	502.	168.	25.95
	HYDROGRAPH AT						
+		64v	137.	12.33	37.	12.	4.	.19
	HYDROGRAPH AT						
+		BD64uP	375.	12.08	198.	68.	23.	4.91
	ROUTED TO						
+		P64uS	375.	12.17	198.	68.	23.	4.91
	HYDROGRAPH AT						
+		BD64uS	81.	12.92	19.	5.	2.	4.91
	ROUTED TO						
+		R64uS	81.	13.08	19.	5.	2.	4.91
	2 COMBINED AT						
+		C64uS	456.	13.08	216.	72.	24.	4.91
	3 COMBINED AT						
+		C64v	3826.	13.42	1852.	582.	195.	26.15
	2 COMBINED AT						
+		NUL64v	7764.	13.17	3469.	1086.	364.	44.28
	HYDROGRAPH AT						
		68v	104.	12.50	31.	10.	3.	.22
	HYDROGRAPH AT						
+		BD68uP	146.	12.00	86.	30.	10.	5.97
	ROUTED TO						

+	P68uS	146.	12.08	86.	30.	10.	5.97
HYDROGRAPH AT +	BD68uS	107.	13.00	26.	7.	2.	5.97
ROUTED TO +	R68uS	106.	13.08	26.	7.	2.	5.97
2 COMBINED AT +	C68uS	252.	13.08	113.	36.	12.	5.97
2 COMBINED AT +	C68v	329.	12.92	142.	45.	15.	6.19
2 COMBINED AT +	NUL68v	8042.	13.17	3588.	1124.	377.	45.56
HYDROGRAPH AT +	72v	273.	12.42	74.	25.	8.	.41
HYDROGRAPH AT +	BD72uP	714.	12.08	565.	221.	75.	8.06
DIVERSION TO +	D72uP2	281.	12.08	222.	87.	29.	8.06
HYDROGRAPH AT +	D72uP1	433.	12.08	343.	134.	45.	8.06
ROUTED TO +	P72uS1	433.	12.25	342.	134.	45.	8.06
HYDROGRAPH AT +	B72uP2	281.	12.08	222.	87.	29.	8.06
ROUTED TO +	P72uS2	281.	12.17	222.	87.	29.	8.06
HYDROGRAPH AT +	BD72uS	214.	13.08	54.	14.	5.	8.06
ROUTED TO +	R72uS	210.	13.42	54.	14.	5.	8.06
3 COMBINED AT +	C72uS	924.	13.42	619.	235.	79.	8.06
2 COMBINED AT +	C72v	1045.	13.17	688.	259.	87.	8.47
2 COMBINED AT +	NUL72v	9024.	13.17	4228.	1365.	458.	47.06
HYDROGRAPH AT +	76w	89.	12.42	19.	5.	2.	.33
HYDROGRAPH AT +	BD76vS	33.	12.42	4.	1.	0.	8.24
ROUTED TO +	R76vS	30.	12.75	4.	1.	0.	8.24
HYDROGRAPH AT +	BD76vP	109.	12.17	70.	24.	8.	8.24
ROUTED TO +	P76vS	109.	12.33	70.	24.	8.	8.24
2 COMBINED AT +	C76vS	139.	12.75	74.	25.	8.	8.24
2 COMBINED AT +	C76w	215.	12.67	92.	29.	10.	8.57
2 COMBINED AT +	NUL76w	9057.	13.08	4237.	1369.	460.	56.10
HYDROGRAPH AT +	80w	244.	12.33	63.	21.	7.	.36
HYDROGRAPH AT +	BD80vS	99.	12.33	24.	6.	2.	8.23
ROUTED TO +	R80vS	93.	12.67	24.	6.	2.	8.23

+	2 COMBINED AT	C80w	301.	12.50	85.	27.	9.	8.59
	2 COMBINED AT	NUL80w	9207.	13.08	4297.	1389.	466.	58.09
+	HYDROGRAPH AT	BD84vS	0.	.00	0.	0.	0.	9.76
+	ROUTED TO	R84vS	0.	.00	0.	0.	0.	9.76
+	HYDROGRAPH AT	BD84vP	972.	15.17	782.	405.	138.	9.76
+	DIVERSION TO	D84vP2	779.	15.17	626.	325.	110.	9.76
+	HYDROGRAPH AT	D84vP1	193.	15.17	155.	80.	27.	9.76
+	ROUTED TO	P84vS1	193.	15.17	155.	80.	27.	9.76
+	HYDROGRAPH AT	B84vP2	779.	15.17	626.	325.	110.	9.76
+	ROUTED TO	P84vS2	779.	15.17	626.	325.	110.	9.76
+	3 COMBINED AT	C84vS	971.	15.17	781.	405.	138.	9.76
+	HYDROGRAPH AT	84w	188.	12.42	51.	17.	6.	.34
+	HYDROGRAPH AT	BD80vP	249.	12.00	226.	78.	26.	8.23
+	ROUTED TO	P80vS	249.	12.17	226.	78.	26.	8.23
	3 COMBINED AT	C84w	1234.	15.17	1039.	497.	169.	10.10
+	2 COMBINED AT	NUL84w	10349.	13.08	5187.	1835.	622.	59.72
+	2 COMBINED AT	NUL88w	10784.	13.08	5416.	1913.	649.	61.86
+	HYDROGRAPH AT	24s	150.	12.25	29.	9.	3.	.19
+	ROUTED TO	S24s	112.	12.58	23.	7.	2.	.19
+	HYDROGRAPH AT	B28qP2	32.	12.17	14.	5.	2.	.82
+	ROUTED TO	P28qE	32.	12.25	14.	5.	2.	.82
+	2 COMBINED AT	C24s	144.	12.58	37.	11.	4.	.20
+	DIVERSION TO	D24sP	144.	12.58	37.	11.	4.	.20
+	HYDROGRAPH AT	D24s	0.	.00	0.	0.	0.	.20
+	ROUTED TO	R24sS	0.	.00	0.	0.	0.	.20
+	HYDROGRAPH AT	BD24sP	144.	12.58	37.	11.	4.	.20
+	DIVERSION TO	D24sPE	18.	12.58	5.	1.	0.	.20
	HYDROGRAPH AT	D24sPS	125.	12.58	33.	10.	3.	.20
+	ROUTED TO	P24sS	124.	12.67	33.	10.	3.	.20

+	2 COMBINED AT	C24sS	124.	12.67	33.	10.	3.	.20
+	HYDROGRAPH AT	24t	152.	12.25	19.	5.	2.	.26
+	2 COMBINED AT	C24t	214.	12.50	51.	15.	5.	.46
+	ROUTED TO	S24t	42.	14.00	31.	14.	5.	.46
+	HYDROGRAPH AT	04s	328.	12.08	33.	10.	3.	.28
+	ROUTED TO	S04s	318.	12.17	31.	10.	3.	.28
+	ROUTED TO	R04sS	281.	12.25	31.	10.	3.	.28
+	HYDROGRAPH AT	08q	388.	12.25	64.	21.	7.	.44
+	ROUTED TO	R08qS	377.	12.33	64.	21.	7.	.44
+	HYDROGRAPH AT	08s	608.	12.25	97.	32.	11.	.65
+	3 COMBINED AT	C08s	1233.	12.25	189.	62.	21.	1.37
+	ROUTED TO	S08s	1016.	12.42	147.	60.	21.	1.37
+	DIVERSION TO	D08sP	862.	12.42	143.	59.	20.	1.37
+	HYDROGRAPH AT	D08s	154.	12.42	4.	1.	0.	1.37
+	ROUTED TO	R08sW	59.	12.67	4.	1.	0.	1.37
+	HYDROGRAPH AT	12q	298.	12.17	37.	10.	3.	.40
+	ROUTED TO	R12qS	285.	12.33	37.	10.	3.	.40
+	HYDROGRAPH AT	12s	247.	12.17	42.	15.	5.	.21
+	ROUTED TO	S12s	168.	12.42	27.	13.	5.	.21
+	2 COMBINED AT	C12s	421.	12.42	63.	23.	8.	.61
+	ROUTED TO	R12sW	389.	12.50	63.	23.	8.	.61
+	2 COMBINED AT	C12sW	419.	12.58	65.	23.	8.	1.97
+	DIVERSION TO	D16sP2	419.	12.58	65.	23.	8.	1.97
+	HYDROGRAPH AT	D16s2	0.	.00	0.	0.	0.	1.97
+	HYDROGRAPH AT	16o	420.	12.00	46.	16.	5.	.21
+	ROUTED TO	R16oS	359.	12.08	46.	16.	5.	.21
+	HYDROGRAPH AT	16q	391.	12.25	70.	21.	7.	.65
+	2 COMBINED AT	C16q	690.	12.17	114.	36.	12.	.86
	ROUTED TO							

+	S16q	313.	12.67	64.	19.	6.	.86
DIVERSION TO	D16qP	313.	12.67	64.	19.	6.	.86
HYDROGRAPH AT +	D16q	0.	.00	0.	0.	0.	.86
ROUTED TO +	R16qS	0.	.00	0.	0.	0.	.86
HYDROGRAPH AT +	16s	514.	12.17	77.	26.	9.	.42
3 COMBINED AT +	C16s	503.	12.17	75.	25.	8.	3.26
ROUTED TO +	S16s	472.	12.25	54.	16.	5.	3.26
HYDROGRAPH AT +	BD16qP	313.	12.67	64.	19.	6.	.86
DIVERSION TO +	D16qPW	83.	12.67	17.	5.	2.	.86
HYDROGRAPH AT +	D16qPS	230.	12.67	47.	14.	5.	.86
ROUTED TO +	P16qS	225.	12.75	47.	14.	5.	.86
2 COMBINED AT +	CC16s	472.	12.25	100.	29.	10.	3.26
DIVERSION TO +	D16sP	472.	12.25	100.	29.	10.	3.26
HYDROGRAPH AT +	D16s	0.	.00	0.	0.	0.	3.26
ROUTED TO	R16sS	0.	.00	0.	0.	0.	3.26
HYDROGRAPH AT +	BD16sP	472.	12.25	100.	29.	10.	3.26
ROUTED TO +	P16sS	448.	12.25	100.	29.	10.	3.26
2 COMBINED AT +	C16sS	448.	12.25	100.	29.	10.	3.26
HYDROGRAPH AT +	20p	356.	12.33	64.	20.	7.	.53
ROUTED TO +	S20p1	357.	12.33	64.	19.	6.	.53
HYDROGRAPH AT +	B16qPW	83.	12.67	17.	5.	2.	.86
ROUTED TO +	P16qW	82.	12.75	17.	5.	2.	.86
2 COMBINED AT +	C20p	352.	12.33	79.	23.	8.	1.39
ROUTED TO +	S20p2	90.	13.50	75.	23.	8.	1.39
HYDROGRAPH AT +	OCCC48	4607.	13.00	1793.	708.	236.	3.00
HYDROGRAPH AT +	BD24oP	48.	11.92	35.	14.	5.	1.20
ROUTED TO +	P24oS	48.	12.08	35.	14.	5.	1.20
2 COMBINED AT	C24oS	4655.	13.00	1828.	722.	241.	3.00
ROUTED TO +	ROCCC	4582.	13.00	1828.	722.	241.	3.00

	2 COMBINED AT						
+		CC20p	4670.	13.00	1886.	744.	248.	4.39
	ROUTED TO						
		R20pS	4685.	13.08	1886.	744.	248.	4.39
	HYDROGRAPH AT						
+		20q	200.	12.25	30.	8.	3.	.28
	HYDROGRAPH AT						
+		B28pP2	68.	12.25	36.	12.	4.	3.11
	ROUTED TO						
+		P28pE	68.	12.50	36.	12.	4.	3.11
	3 COMBINED AT						
+		C20q	4798.	13.08	1951.	765.	255.	4.67
	ROUTED TO						
+		R20qS	4793.	13.08	1951.	765.	255.	4.67
	HYDROGRAPH AT						
+		20s	607.	12.17	84.	28.	9.	.48
	ROUTED TO						
+		S20s	578.	12.25	84.	26.	9.	.48
	2 COMBINED AT						
+		C20s	4865.	13.08	2033.	790.	264.	5.15
	HYDROGRAPH AT						
+		B24sPE	18.	12.58	5.	1.	0.	.20
	ROUTED TO						
+		P24sE	18.	12.67	5.	1.	0.	.20
	2 COMBINED AT						
+		CC20s	4879.	13.08	2037.	791.	264.	5.35
	ROUTED TO						
+		R20sS	4848.	13.08	2037.	791.	264.	5.35
	HYDROGRAPH AT						
+		20t	60.	12.50	13.	3.	1.	.26
	ROUTED TO						
+		S20t	0.	.00	0.	0.	0.	.26
	3 COMBINED AT						
+		C20t	5075.	13.08	2127.	819.	273.	8.01
	2 COMBINED AT						
+		NUL20t	5105.	13.08	2150.	831.	278.	8.27

*** NORMAL END OF HEC-1 ***