File L.2

MEMORANDUM
Wickenburg ADMS
Contract FCD 89-79

TO: ( ) Dave Mahaffay, P.E. No. of Pages —
(X) Tim Meyer, P.E.

COMPANY: Black & Veatch, Phoenix Office

FROM: ( ) Ash Patel, P.E.
( ) Paul Hoskin, P.E.
(X) Dave Dust

SUBJECT: TR-20's For Sunset & Sunny Cove Dams
Date 2/5/71

DATE: 5-21-91 TRANSMITTED VIA: Pick-Up

B & V Project No: 17676
CVL Job No. 1197-02-0
File L.2

• Attached are the TR-20's For Sunset & Sunny Cove Dams

enclosures: ( )

c: (X) Greg Rodzenko, FCDMC
( ) Paul Hoskin, CVL
( ) Ash Patel, CVL

```
PAGE   1

// JOB

LOG DRIVE   CART SPEC   CART AVAIL  PHY DRIVE
  0000        1888        1888        0000

V2 M08   ACTUAL  8K  CONFIG  8K

// FOR
*LIST ALL
            WICKENBURG W/S ARIZONA (SUNSET+SUNNYCOVE) 2/5/71
 5 RAINFL 1              0.5
 8          .000         .005        .011        .016        .022
 8          .028         .035        .041        .048        .056
 8          .063         .071        .080        .089        .098
 8          .109         .120        .133        .147        .163
 8          .181         .204        .235        .283        .663
 8          .735         .772        .799        .820        .838
 8          .854         .868        .880        .891        .902
 8          .912         .921        .929        .937        .945
 8          .952         .959        .965        .972        .978
 8          .984         .989        .995        1.000       1.000
 9 ENDTBL
 3 STRUCT      01                                                          13
 8                       2156.0      0.0         0.0                       14
 9 ENDTBL                                                                  15
 3 STRUCT      02                                                          16
 8                       2124.0      0.0         0.0                       17
 9 ENDTBL                                                                  18
 6 RUNOFF 1 001        6 1.35        83.0        1.10        1     1   1   19
 6 RESVOR 2    01 6    7 2156.0                              1     1   1   20
 6 REACH  3 002    7   5 2800.0      0.79                    1     1   1   21
 6 RUNOFF 1 003        6 0.11        92.2        0.25        1     1   1   22
 6 ADDHYD 4 004    5 6 1                                     1     1   1   23
 6 RUNOFF 1 005        6 0.75        75.0        0.33        1     1   1   24
 6 RESVOR 2    02 6    7 2124.0                              1     1   1   25
 6 REACH  3 006    7   5 1800.0      0.79                    1     1   1   26
 6 RUNOFF 1 061        6 0.24        92.2        0.25        1     1   1   27
 6 ADDHYD 4 007    5 6 7                                     1     1   1   28
 6 ADDHYD 4 008    1 7 6                                     1     1   1   29
 6 REACH  3 009    6   5 3300.       0.79                    1     1   1   30
 6 RUNOFF 1 091        6 0.12        92.2        0.25        1     1   1   31
 6 ADDHYD 4 010    5 6 7                                                   32
   ENDATA                                                                  33
 7 LIST                                                                    34
 7 INCREM 6              0.5                                               35
 7 COMPUT 7 001    010   0.0         4.2         1.0         1 2  01  01  36
   ENDCMP 1                                                                37
 7 COMPUT 7 001    010   0.0         3.8         1.0         1 2  01  02  38
   ENDCMP 1                                                                39
 7 COMPUT 7 001    010   0.0         3.4         1.0         1 2  01  03  40
   ENDCMP 1                                                                41
 7 COMPUT 7 001    010   0.0         2.75        1.0         1 2  01  04  42
   ENDCMP 1                                                                43
```

CVL has Lag of 0.5 hrs

CVL has 0.5 hrs

```
 7 COMPUT 7 001    010    0.0          2.3          1.0          1 2  01  05      44
   ENDCMP 1                                                                        45
 7 COMPUT 7 001    010    0.0          1.7          1.0          1 2  01  06      46
   ENDCMP 1                                                                        47
 7 UPDATE 1                                                                        48
 3 STRUCT       01                                                                 49
 8                     (2148 )2156.0    0.0                                       50
 8                            2157.0    24.1         3.74                          51
 8                            2158.0    24.2         7.50                          52
 8                            2160.0    24.5         17.5                          53
 8                            2162.0    24.8         32.5                          54
 8                            2164.0    25.1         45.0                          55
 8                            2166.0    25.4         60.0                          56
 8                            2168.0    25.7         80.0                          57
 8                            2170.0    26.0         100.0                         58
 8                            2172.0    26.2         122.5                         59
 8                            2174.0    26.5         147.5                         60
 8                            2176.0    26.8         175.0                         61
 9 ENDTBL                                                                          62
 3 STRUCT       02                                                                 63
 8                     (2120)
 8                            2124.0    0.0          0.0                           64
 8                            2125.0    23.25        4.9                           65
 8                            2126.0    23.5         10.0                          66
 8                            2127.0    23.7         17.0                          67
 8                            2128.0    24.0         24.0                          68
 8                            2129.0    24.2         27.5                          69
 8                            2130.0    24.4         31.0                          70
 8                            2131.0    24.6         45.5                          71
 8                            2132.0    24.9         60.0                          72
 8                            2133.0    25.1         71.0                          73
 8                            2134.0    25.3         82.0                          74
 9 ENDTBL                                                                          76
 7 INCREM 6                   0.5                                                  77
 7 COMPUT 7 001    010    0.0          4.2          1.0          1 2  02  01      78
   ENDCMP 1                                                                        79
 7 COMPUT 7 001    010    0.0          3.8          1.0          1 2  02  02      80
   ENDCMP 1                                                                        81
 7 COMPUT 7 001    010    0.0          3.4          1.0          1 2  02  03      82
   ENDCMP 1                                                                        83
 7 COMPUT 7 001    010    0.0          2.75         1.0          1 2  02  04      84
   ENDCMP 1                                                                        85
 7 COMPUT 7 001    010    0.0          2.3          1.0          1 2  02  05      86
   ENDCMP 1                                                                        87
 7 COMPUT 7 001    010    0.0          1.7          1.0          1 2  02  06      88
   ENDCMP 1                                                                        89
   ENDJOB 2                                                                        90
```

Sunny Cove

Sunset

COMPILATION DISCONTINUED

M 14 SYSTEM PROGRAM DETECTED MONITOR CONTROL RECORD

```
// JOB

LOG DRIVE   CART SPEC   CART AVAIL  PHY DRIVE
  0000        1888        1888        0000

V2 M08   ACTUAL  8K  CONFIG  8K
```

```
// JOB

LOG DRIVE   CART SPEC   CART AVAIL   PHY DRIVE
  0000        1888        1888        0000

V2 M08   ACTUAL  8K  CONFIG  8K

// XEQ TR20
```

HYDROLOGY PROGRAM FOR IBM 1130 - DATED JULY, 1968

WICKENBURG W/S ARIZONA (SUNSET&SUNNYCOVE) 2/5/71 TR-20 ROUTING.

EXECUTIVE CONTROL CARD 34 OPERATION LIST

WICKENBURG W/S ARIZONA (SUNSET&SUNNYCOVE) 2/5/71

C TABLE VELOCITY INCREMENT = 0.200

8	0.0000	0.0800	0.1800	0.2500	0.3200
8	0.3700	0.4100	0.4500	0.4900	0.5100
8	0.5400	0.5700	0.5900	0.6100	0.6300
8	0.6500	0.6600	0.6700	0.6900	0.7000
8	0.7100	0.7200	0.7300	0.7400	0.7500
8	0.7600	0.7700	0.7700	0.7800	0.7900
8	0.7900	0.8000	0.8100	0.8100	0.8200
8	0.8200	0.8300	0.8300	0.8400	0.8400
8	0.8400	0.8500	0.8500	0.8600	0.8600
8	0.8600	0.8600	0.8700	0.8700	0.8700
8	0.8800	0.8800	0.8800	0.8900	0.8900
8	0.8900	0.8900	0.8900	0.8900	0.9000
8	0.9000	0.9000	0.9000	0.9000	0.9100
8	0.9100	0.9100	0.9100	0.9100	0.9100
8	0.9200	0.9200	0.9200	0.9200	0.9200
8	0.9200	0.9200	0.9200	0.9300	0.9300
8	0.9300	0.9300	0.9300	0.9300	0.9300
9 ENDTBL					

STRUCTURE NO. 1

	ELEVATION	DISCHARGE	STORAGE
8	2156.0004	0.0000	0.0000
9 ENDTBL			

STRUCTURE NO. 2

	ELEVATION	DISCHARGE	STORAGE
8	2124.0004	0.0000	0.0000
9 ENDTBL			

DIMENSIONLESS HYDROGRAPH - DELTA T = 0.02

8	0.0000	0.0150	0.0750	0.1600	0.2800
8	0.4300	0.6000	0.7700	0.8900	0.9700
8	1.0000	0.9800	0.9200	0.8400	0.7500
8	0.6600	0.5650	0.4900	0.4200	0.3650
8	0.3200	0.2790	0.2400	0.2100	0.1800
8	0.1550	0.1300	0.1130	0.0980	0.0860
8	0.0750	0.0650	0.0560	0.0470	0.0410
8	0.0350	0.0300	0.0260	0.0220	0.0190
8	0.0170	0.0150	0.0130	0.0110	0.0090
8	0.0070	0.0050	0.0030	0.0020	0.0010
8	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000
9 ENDTBL					

RAINFALL TABLE NO. 1 TIME INCREMENT = 0.50

8	0.0000	0.0050	0.0110	0.0160	0.0220
8	0.0280	0.0350	0.0410	0.0480	0.0560
8	0.0630	0.0710	0.0800	0.0890	0.0980
8	0.1090	0.1200	0.1330	0.1470	0.1630
8	0.1810	0.2040	0.2350	0.2830	0.6630
8	0.7350	0.7720	0.7990	0.8200	0.8380
8	0.8540	0.8680	0.8800	0.8910	0.9020
8	0.9120	0.9210	0.9290	0.9370	0.9450
8	0.9520	0.9590	0.9650	0.9720	0.9780
8	0.9840	0.9890	0.9950	1.0000	1.0000
9 ENDTBL					

STANDARD CONTROL INSTRUCTIONS

			HYDROGRAPHS						OUTPUT OPTIONS					
SUBRTN	XSECTN	STRCT	IN1	IN2	OUT	DATA NO. 1	DATA NO. 2	DATA NO. 3	PK	H	E	V	PH	SM
RUNOFF	1	0	0	0	6	1.350	83.000	1.100	1	0	0	1	0	1
RESVOR	0	1	6	0	7	2156.000	0.000	0.000	1	0	0	1	0	1
REACH	2	0	7	0	5	2800.000	0.790	0.000	1	0	0	1	0	1
RUNOFF	3	0	0	0	6	0.110	92.200	0.250	1	0	0	1	0	1
ADDHYD	4	0	5	6	1	0.000	0.000	0.000	1	0	0	1	0	1
RUNOFF	5	0	0	0	6	0.750	75.000	0.330	1	0	0	1	0	1
RESVOR	0	2	6	0	7	2124.000	0.000	0.000	1	0	0	1	0	1
REACH	6	0	7	0	5	1800.000	0.790	0.000	1	0	0	1	0	1
RUNOFF	61	0	0	0	6	0.240	92.200	0.250	1	0	0	1	0	1
ADDHYD	7	0	5	6	7	0.000	0.000	0.000	1	0	0	1	0	1
ADDHYD	8	0	1	7	6	0.000	0.000	0.000	1	0	0	1	0	1
REACH	9	0	6	0	5	3300.000	0.790	0.000	1	0	0	1	0	1
RUNOFF	91	0	0	0	6	0.120	92.200	0.250	1	0	0	1	0	1
ADDHYD	10	0	5	6	7	0.000	0.000	0.000	0	0	0	0	0	0
ENDATA														

END OF LISTING

```
EXECUTIVE CONTROL CARD        35    OPERATION  INCREM,     MAIN TIME INCREMENT=  0.50
EXECUTIVE CONTROL CARD        36    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  4.20     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 1         STORM NO.= 1

SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.57                        985.476                       (RUNOFF)
              21.76                         42.705                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.4563        CFS-HRS=     2140.07        ACRE-FT=     176.85

SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.57                        985.476                       (NULL)
              21.76                         42.705                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.4563        CFS-HRS=     2140.07        ACRE-FT=     176.85

SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.65                        890.699                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.4694        CFS-HRS=     2151.51        ACRE-FT=     177.80

SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                        202.376                       (RUNOFF)
              19.25                          4.729                       (RUNOFF)
              21.50                          4.067                       (RUNOFF)
              23.50                          3.488                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.0313        CFS-HRS=      215.19        ACRE-FT=      17.78

SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.
```

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	917.332	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.5447 CFS-HRS= 2397.73 ACRE-FT= 198.14

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 0.75 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 0.33
COMPUTED CURVE NO. = 75.0

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	694.355	(RUNOFF)
19.26	24.840	(RUNOFF)
21.50	21.420	(RUNOFF)
23.50	18.497	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0319 CFS-HRS= 983.51 ACRE-FT= 81.27

SUBROUTINE RESVOR STRUCTURE 2
SURFACE ELEVATION= 2124.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	694.355	(NULL)
19.26	24.840	(NULL)
21.50	21.420	(NULL)
23.50	18.497	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0319 CFS-HRS= 983.51 ACRE-FT= 81.27

SUBROUTINE REACH CROSS SECTION 6
LENGTH= 1800.00 INPUT COEFFICIENT= 0.7900 INPUT ROUTINGS= 0.00

AVERAGE WATER VELOCITY= 5.800 ROUTING COEFF= 0.7900 MODIFIED COEFFICIENT= 0.2999

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	611.921	(NULL)
19.25	24.790	(NULL)
21.50	21.070	(NULL)
23.49	18.142	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9875 CFS-HRS= 962.04 ACRE-FT= 79.50

SUBROUTINE RUNOFF CROSS SECTION 61
AREA= 0.24 INPUT RUNOFF CURVE= 92.2 TIME OF CONCENTRATION= 0.25
COMPUTED CURVE NO. = 92.2

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	441.749	(RUNOFF)
19.25	10.322	(RUNOFF)
21.50	8.876	(RUNOFF)
23.50	7.609	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.0398 CFS-HRS= 470.83 ACRE-FT= 38.90

```
SUBROUTINE ADDHYD    CROSS SECTION    7
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.05                       1050.599                     (NULL)
             19.25                         35.110                     (NULL)
             21.50                         29.949                     (NULL)
             23.49                         25.757                     (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.0631        CFS-HRS=     1318.20        ACRE-FT=     108.93


SUBROUTINE ADDHYD    CROSS SECTION    8
          INPUT HYDROGRAPHS= 1,7      OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

******************** WARNING MAIN TIME INCREMENT CHECK ********************

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.16                       1695.804                     (NULL)
             21.37                         77.038                     (NULL)
             23.38                         65.918                     (NULL)

   TIME                              HYDROGRAPH, TZERO=   4.00        DELTA T= 0.50        DRAINAGE AREA=   2.44
   4.00    DISCHG        0.00      1.17      1.57      3.43      4.81      5.71      6.51      8.90     11.36     16.95
   9.00    DISCHG       23.14     31.73     44.08     65.95    103.38    185.74   1601.64   1318.33    945.17    589.60
  14.00    DISCHG      382.09    274.88    217.46    180.92    155.05    137.58    128.91    120.16    110.64    100.29
  19.00    DISCHG       94.69     92.07     85.97     82.49     75.52     76.87     72.94     70.75     64.24     65.76
  24.00    DISCHG       61.72     33.24     15.66      6.05      2.16      0.72      0.19      0.02      0.00      0.00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3501        CFS-HRS=     3715.94        ACRE-FT=     307.08


SUBROUTINE REACH     CROSS SECTION    9
          LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.39                       1399.708                     (NULL)
                                          1406.3
          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3892        CFS-HRS=     3777.74        ACRE-FT=     312.19


SUBROUTINE RUNOFF    CROSS SECTION   91
          AREA=    0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.01                        220.874                    (RUNOFF)
                 30
```

```
19.25                          5.161                    (RUNOFF)
21.50                          4.438                    (RUNOFF)
23.50                          3.804                    (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.0313      CFS-HRS=      234.76      ACRE-FT=      19.40

SUBROUTINE ADDHYD    CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        38    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00      RAIN DEPTH=  3.80     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 1          STORM NO.= 2

SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.57                        844.304                       (RUNOFF)
              21.76                         37.768                       (RUNOFF)
              23.75                         32.872                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1633        CFS-HRS=     1884.85        ACRE-FT=     155.76

SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.57                        844.304                       (NULL)
              21.76                         37.768                       (NULL)
              23.75                         32.872                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1633        CFS-HRS=     1884.85        ACRE-FT=     155.76

SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.66                        762.217                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1518        CFS-HRS=     1874.83        ACRE-FT=     154.93

SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                        180.134                       (RUNOFF)
              19.25                          4.252                       (RUNOFF)
              21.50                          3.657                       (RUNOFF)
              23.50                          3.136                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.3223        CFS-HRS=      235.85        ACRE-FT=      19.49

SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1
```

```
DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.61                        785.577                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.2112        CFS-HRS=     2083.50        ACRE-FT=     172.18


SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
          COMPUTED CURVE NO. =   75.0

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.05                        571.282                     (RUNOFF)
             19.26                         21.515                     (RUNOFF)
             21.50                         18.590                     (RUNOFF)
             23.50                         16.074                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4299        CFS-HRS=      692.11        ACRE-FT=      57.19


SUBROUTINE RESVOR   STRUCTURE   2
          SURFACE ELEVATION= 2124.00

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.05                        571.282                      (NULL)
             19.26                         21.515                      (NULL)
             21.50                         18.590                      (NULL)
             23.50                         16.074                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4299        CFS-HRS=      692.11        ACRE-FT=      57.19


SUBROUTINE REACH     CROSS SECTION   6
          LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.08                        503.089                      (NULL)
             19.26                         21.477                      (NULL)
             21.50                         18.285                      (NULL)
             23.49                         15.765                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4661        CFS-HRS=      709.66        ACRE-FT=      58.54


SUBROUTINE RUNOFF    CROSS SECTION  61
          AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.01                        392.991                     (RUNOFF)
             19.25                          9.277                     (RUNOFF)
             21.50                          7.981                     (RUNOFF)
```

```
   23.50                          6.845                    (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.3305        CFS-HRS=      515.86        ACRE-FT=      42.53

SUBROUTINE ADDHYD    CROSS SECTION   7
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.05                       893.131                      (NULL)
              19.25                        30.751                      (NULL)
              21.50                        26.274                      (NULL)
              23.49                        22.609                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.0648        CFS-HRS=     1319.27        ACRE-FT=     109.02

SUBROUTINE ADDHYD    CROSS SECTION   8
           INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

******************** WARNING MAIN TIME INCREMENT CHECK ********************

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.16                      1446.168                      (NULL)
              21.37                        67.973                      (NULL)
              23.38                        58.196                      (NULL)

  TIME                          HYDROGRAPH, TZERO=   4.50        DELTA T= 0.50        DRAINAGE AREA=   2.44
  4.50   DISCHG      0.00     1.05     1.70     3.63     4.45     5.17     7.19     8.10    11.97    16.73
  9.50   DISCHG     23.74    32.42    49.62    80.41   148.97  1363.92  1126.92   815.17   511.65   333.08
 14.50   DISCHG    240.45   190.69   158.90   136.29   121.01   113.43   105.77    97.43    88.34    83.44
 19.50   DISCHG     81.15    75.79    72.75    66.61    67.82    64.36    62.45    56.71    58.06    54.50
 24.50   DISCHG     29.37    13.86     5.35     1.91     0.63     0.17     0.02     0.00     0.00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1520        CFS-HRS=     3402.77        ACRE-FT=     281.20

SUBROUTINE REACH     CROSS SECTION   9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.40                      1193.978                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1184        CFS-HRS=     3349.58        ACRE-FT=     276.80

SUBROUTINE RUNOFF    CROSS SECTION  91
           AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2
```

```
PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.01                           196.495                      (RUNOFF)
   19.25                             4.638                      (RUNOFF)
   21.50                             3.990                      (RUNOFF)
   23.50                             3.422                      (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    3.3223        CFS-HRS=       257.29        ACRE-FT=       21.26

SUBROUTINE ADDHYD    CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        40    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00      RAIN DEPTH=  3.40     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 1          STORM NO.= 3

SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.58                        705.492                      (RUNOFF)
              21.77                         32.837                      (RUNOFF)
              23.75                         28.589                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7708        CFS-HRS=     1542.81        ACRE-FT=     127.49

SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.58                        705.492                      (NULL)
              21.77                         32.837                      (NULL)
              23.75                         28.589                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7708        CFS-HRS=     1542.81        ACRE-FT=     127.49

SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.66                        636.173                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7805        CFS-HRS=     1551.34        ACRE-FT=     128.20

SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                        157.791                      (RUNOFF)
              19.25                          3.772                      (RUNOFF)
              21.50                          3.246                      (RUNOFF)
              23.50                          2.785                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3295        CFS-HRS=      165.37        ACRE-FT=      13.66

SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1
```

```
DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.61                         656.440                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.8464        CFS-HRS=      1739.83        ACRE-FT=      143.77


SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
          COMPUTED CURVE NO. =   75.0

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.05                         453.362                     (RUNOFF)
             19.26                          18.230                     (RUNOFF)
             21.50                          15.780                     (RUNOFF)
             23.50                          13.662                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3751        CFS-HRS=       665.61        ACRE-FT=       55.00


SUBROUTINE RESVOR   STRUCTURE   2
          SURFACE ELEVATION= 2124.00

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.05                         453.362                       (NULL)
             19.26                          18.230                       (NULL)
             21.50                          15.780                       (NULL)
             23.50                          13.662                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3751        CFS-HRS=       665.61        ACRE-FT=       55.00


SUBROUTINE REACH     CROSS SECTION   6
          LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.08                         399.073                       (NULL)
             19.26                          18.196                       (NULL)
             21.50                          15.525                       (NULL)
             23.50                          13.403                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3464        CFS-HRS=       651.73        ACRE-FT=       53.85


SUBROUTINE RUNOFF    CROSS SECTION  61
          AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.01                         344.226                     (RUNOFF)
             19.25                           8.230                     (RUNOFF)
             21.50                           7.084                     (RUNOFF)
```

```
   23.50                          6.077                    (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3379        CFS-HRS=      362.12        ACRE-FT=      29.92


SUBROUTINE ADDHYD    CROSS SECTION   7
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.05                       740.430                      (NULL)
              19.25                        26.428                      (NULL)
              21.50                        22.604                      (NULL)
              23.50                        19.481                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4708        CFS-HRS=      939.77        ACRE-FT=      77.66


SUBROUTINE ADDHYD    CROSS SECTION   8
           INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

******************** WARNING MAIN TIME INCREMENT CHECK ********************

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.17                      1202.951                      (NULL)
              21.38                        58.892                      (NULL)
              23.38                        50.498                      (NULL)

   TIME                              HYDROGRAPH, TZERO=   5.00        DELTA T= 0.50        DRAINAGE AREA=   2.44
   5.00    DISCHG        0.00      1.09      1.74      3.26      3.91      5.56      6.38      8.43     11.35     16.57
  10.00    DISCHG       23.48     35.39     59.10    114.27   1132.59    939.54    687.06    434.53    284.46    206.22
  15.00    DISCHG      164.04    136.96    117.59    104.48     97.99     91.42     84.25     76.43     72.21     70.25
  20.00    DISCHG       65.63     63.02     57.72     58.78     55.79     54.15     49.19     50.37     47.28     25.50
  25.00    DISCHG       12.05      4.66      1.66      0.55      0.14      0.02      0.00      0.00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.6947        CFS-HRS=     2679.60        ACRE-FT=     221.44


SUBROUTINE REACH     CROSS SECTION   9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.40                       993.240                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7229        CFS-HRS=     2724.24        ACRE-FT=     225.13


SUBROUTINE RUNOFF    CROSS SECTION  91
           AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2
```

```
PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.01                           172.113                      (RUNOFF)
   19.25                             4.115                      (RUNOFF)
   21.50                             3.542                      (RUNOFF)
   23.50                             3.038                      (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3295        CFS-HRS=      180.40        ACRE-FT=      14.90

SUBROUTINE ADDHYD    CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        42    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  2.75     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 1         STORM NO.= 4


SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.59                         488.231                     (RUNOFF)
              21.77                          24.808                     (RUNOFF)
              23.75                          21.643                     (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2447        CFS-HRS=     1084.46        ACRE-FT=      89.51


SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.59                         488.231                      (NULL)
              21.77                          24.808                      (NULL)
              23.75                          21.643                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2447        CFS-HRS=     1084.46        ACRE-FT=      89.51


SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.68                         439.044                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2518        CFS-HRS=     1090.64        ACRE-FT=      90.13


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.02                         121.338                     (RUNOFF)
              19.25                           2.987                     (RUNOFF)
              21.50                           2.574                     (RUNOFF)
              23.50                           2.210                     (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1980        CFS-HRS=      156.04        ACRE-FT=      12.89


SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1
```

```
DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.62                         454.340                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3231        CFS-HRS=      1246.68        ACRE-FT=      103.02


SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
          COMPUTED CURVE NO. =   75.0

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.06                         276.190                     (RUNOFF)
             16.75                          17.253                     (RUNOFF)
             19.27                          13.005                     (RUNOFF)
             21.50                          11.311                     (RUNOFF)
             23.50                           9.821                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.7666        CFS-HRS=       371.09        ACRE-FT=       30.66


SUBROUTINE RESVOR   STRUCTURE   2
          SURFACE ELEVATION= 2124.00

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.06                         276.190                       (NULL)
             16.75                          17.253                       (NULL)
             19.27                          13.005                       (NULL)
             21.50                          11.311                       (NULL)
             23.50                           9.821                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.7666        CFS-HRS=       371.09        ACRE-FT=       30.66


SUBROUTINE REACH     CROSS SECTION   6
          LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.10                         242.676                       (NULL)
             19.27                          12.977                       (NULL)
             21.50                          11.124                       (NULL)
             23.50                           9.636                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.7838        CFS-HRS=       379.40        ACRE-FT=       31.35


SUBROUTINE RUNOFF    CROSS SECTION  61
          AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.02                         264.658                     (RUNOFF)
```

```
   19.25                          6.520                    (RUNOFF)
   21.50                          5.617                    (RUNOFF)
   23.50                          4.822                    (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7778        CFS-HRS=      275.37        ACRE-FT=      22.75


SUBROUTINE ADDHYD    CROSS SECTION   7
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.05                       504.880                     (NULL)
              19.26                        19.499                     (NULL)
              21.50                        16.739                     (NULL)
              23.50                        14.458                     (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.0248        CFS-HRS=      654.77        ACRE-FT=      54.11


SUBROUTINE ADDHYD    CROSS SECTION   8
           INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

******************** WARNING MAIN TIME INCREMENT CHECK ********************

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.17                       825.612                     (NULL)
              21.38                        44.264                     (NULL)
              23.39                        38.012                     (NULL)

  TIME                          HYDROGRAPH, TZERO=   6.00        DELTA T= 0.50        DRAINAGE AREA=   2.44
  6.00    DISCHG       0.00      1.06      1.41      2.16      3.80      5.23      6.46      8.31     11.57     18.83
 11.00    DISCHG      31.88     64.01    774.96    647.31    485.05    312.07    206.87    151.39    121.24    101.65
 16.00    DISCHG      87.47     77.84     73.11     68.27     62.99     57.19     54.08     52.66     49.23     47.30
 21.00    DISCHG      43.35     44.18     41.94     40.74     37.02     37.94     35.62     19.23      9.12      3.53
 26.00    DISCHG       1.26      0.42      0.11      0.01      0.00      0.00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1935        CFS-HRS=     1887.18        ACRE-FT=     155.95


SUBROUTINE REACH     CROSS SECTION   9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
              12.42                       681.629                     (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2134        CFS-HRS=     1918.70        ACRE-FT=     158.56


SUBROUTINE RUNOFF    CROSS SECTION  91
```

```
AREA=   0.12      INPUT RUNOFF CURVE=  92.2      TIME OF CONCENTRATION=  0.25
COMPUTED CURVE NO. =   92.2

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                           132.329                      (RUNOFF)
   19.25                             3.260                      (RUNOFF)
   21.50                             2.808                      (RUNOFF)
   23.50                             2.411                      (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7702        CFS-HRS=      137.09        ACRE-FT=      11.32

SUBROUTINE ADDHYD    CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        44    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  2.30     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 1         STORM NO.= 5


SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.60                         346.805                      (RUNOFF)
              21.78                          19.288                      (RUNOFF)
              23.75                          16.870                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9043        CFS-HRS=      787.94        ACRE-FT=      65.11


SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.60                         346.805                       (NULL)
              21.78                          19.288                       (NULL)
              23.75                          16.870                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9043        CFS-HRS=      787.94        ACRE-FT=      65.11


SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

******************** WARNING MAIN TIME INCREMENT CHECK ********************

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.70                         311.058                       (NULL)

   TIME                                HYDROGRAPH, TZERO=  10.50        DELTA T= 0.50        DRAINAGE AREA=   1.35
  10.50    DISCHG        0.00      2.53      10.25      99.30     293.45     273.08     176.03     112.18      77.86      59.55
  15.50    DISCHG       48.72     41.87      36.73      33.30      31.33      29.28      26.88      24.72      23.59      22.75
  20.50    DISCHG       21.51     20.30      19.32      19.18      18.49      17.49      16.57      16.39      13.44       7.03
  25.50    DISCHG        2.75      0.98       0.32       0.08       0.01       0.00       0.00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9096        CFS-HRS=      792.51        ACRE-FT=      65.49


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                          96.087                      (RUNOFF)
              19.25                           2.441                      (RUNOFF)
```

```
   21.50                          2.105                    (RUNOFF)
   23.50                          1.809                    (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3893        CFS-HRS=       98.62        ACRE-FT=       8.15


SUBROUTINE ADDHYD    CROSS SECTION    4
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
   12.64                                322.855                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9589        CFS-HRS=      903.55        ACRE-FT=      74.66


SUBROUTINE RUNOFF    CROSS SECTION    5
           AREA=   0.75      INPUT RUNOFF CURVE=  75.0      TIME OF CONCENTRATION=  0.33
           COMPUTED CURVE NO. =   75.0

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
   12.08                               167.440                      (RUNOFF)
   16.76                                12.547                      (RUNOFF)
   19.27                                 9.531                      (RUNOFF)
   21.50                                 8.328                      (RUNOFF)
   23.50                                 7.258                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5950        CFS-HRS=      288.02        ACRE-FT=      23.80


SUBROUTINE RESVOR    STRUCTURE    2
           SURFACE ELEVATION= 2124.00

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
   12.08                               167.440                      (NULL)
   16.76                                12.547                      (NULL)
   19.27                                 9.531                      (NULL)
   21.50                                 8.328                      (NULL)
   23.50                                 7.258                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5950        CFS-HRS=      288.02        ACRE-FT=      23.80


SUBROUTINE REACH     CROSS SECTION    6
           LENGTH=   1800.00      INPUT COEFFICIENT=  0.7900      INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800        ROUTING COEFF= 0.7900        MODIFIED COEFFICIENT= 0.9999

           PEAK TIMES                 PEAK DISCHARGES              PEAK ELEVATIONS
   12.11                               147.282                      (NULL)
   19.27                                 9.506                      (NULL)
   21.51                                 8.189                      (NULL)
   23.50                                 7.119                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5850        CFS-HRS=      283.20        ACRE-FT=      23.40
```

```
SUBROUTINE RUNOFF    CROSS SECTION  61
          AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.02                        209.648                     (RUNOFF)
             19.25                          5.325                     (RUNOFF)
             21.50                          4.593                     (RUNOFF)
             23.50                          3.949                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3976        CFS-HRS=      216.48        ACRE-FT=      17.88


SUBROUTINE ADDHYD    CROSS SECTION   7
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.05                        354.643                     (NULL)
             19.26                         14.834                     (NULL)
             21.50                         12.784                     (NULL)
             23.50                         11.063                     (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.7417        CFS-HRS=      473.90        ACRE-FT=      39.16


SUBROUTINE ADDHYD    CROSS SECTION   8
          INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

******************** WARNING MAIN TIME INCREMENT CHECK ********************

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.17                        583.295                     (NULL)
             21.39                         34.272                     (NULL)
             23.39                         29.512                     (NULL)

   TIME                              HYDROGRAPH, TZERO=   7.00        DELTA T= 0.50        DRAINAGE AREA=   2.44
   7.00    DISCHG        0.00      1.17      1.53      3.25      4.19      5.58      7.18     10.40     18.44     38.41
  12.00    DISCHG      546.40    457.99    352.09    230.66    154.90    114.46     92.29     77.72     67.03     59.75
  17.00    DISCHG       56.19     52.53     48.51     44.09     41.74     40.66     38.04     36.58     33.54     34.21
  22.00    DISCHG       32.49     31.58     28.71     29.44     27.65     14.92      7.11      2.75      0.98      0.32
  27.00    DISCHG        0.08      0.01      0.00      0.00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.8711        CFS-HRS=     1377.45        ACRE-FT=     113.83


SUBROUTINE REACH     CROSS SECTION   9
          LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980
```

```
          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.43                          481.194                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.8855        CFS-HRS=      1400.23        ACRE-FT=      115.71


SUBROUTINE RUNOFF    CROSS SECTION  91
          AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.02                          104.824                      (RUNOFF)
             19.25                            2.662                      (RUNOFF)
             21.50                            2.296                      (RUNOFF)
             23.50                            1.974                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3893        CFS-HRS=       107.59        ACRE-FT=        8.89


SUBROUTINE ADDHYD    CROSS SECTION  10
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        46    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  1.70     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 1         STORM NO.= 6

SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.64                         177.004                      (RUNOFF)
              21.79                          12.097                      (RUNOFF)
              23.75                          10.630                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.4966        CFS-HRS=      432.67        ACRE-FT=      35.75

SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.64                         177.004                       (NULL)
              21.79                          12.097                       (NULL)
              23.75                          10.630                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.4966        CFS-HRS=      432.67        ACRE-FT=      35.75

SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

******************** WARNING MAIN TIME INCREMENT CHECK ********************

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.74                         158.014                       (NULL)

   TIME                                HYDROGRAPH, TZERO=  11.50        DELTA T= 0.50        DRAINAGE AREA=   1.35
  11.50    DISCHG        0.00     38.89    144.97    144.39     97.44     64.26     45.78     35.71     29.59     25.60
  16.50    DISCHG       22.54     20.50     19.35     18.13     16.68     15.37     14.69     14.20     13.44     12.70
  21.50    DISCHG       12.11     12.03     11.62     11.00     10.43     10.33      8.48      4.43      1.73      0.62
  26.50    DISCHG        0.20      0.05      0.00      0.00      0.00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.4995        CFS-HRS=      435.23        ACRE-FT=      35.96

SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                          62.759                      (RUNOFF)
              16.75                           2.311                      (RUNOFF)
```

```
          19.25                          1.706                    (RUNOFF)
          21.50                          1.474                    (RUNOFF)
          23.50                          1.269                    (RUNOFF)

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1250        CFS-HRS=       79.87        ACRE-FT=       6.60


SUBROUTINE ADDHYD    CROSS SECTION   4
        INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
          12.68                          165.265                    (NULL)

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5466        CFS-HRS=      515.10        ACRE-FT=      42.56


SUBROUTINE RUNOFF    CROSS SECTION   5
        AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
        COMPUTED CURVE NO. =   75.0

******************** WARNING MAIN TIME INCREMENT CHECK ********************

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
          12.14                           52.508                    (RUNOFF)
          16.79                            6.755                    (RUNOFF)
          19.29                            5.231                    (RUNOFF)
          21.51                            4.624                    (RUNOFF)
          23.50                            4.064                    (RUNOFF)

  TIME                              HYDROGRAPH, TZERO=  11.50        DELTA T= 0.50        DRAINAGE AREA=   0.75
 11.50    DISCHG        0.00      49.92      36.28      18.99      14.15      11.43      10.04       9.15       8.21       7.19
 16.50    DISCHG        6.66       6.71       6.24       5.70       5.13       5.12       5.17       4.63       4.61       4.04
 21.50    DISCHG        4.62       4.10       4.07       3.48       4.06       3.51       0.31       0.00       0.00

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.2600        CFS-HRS=      125.89        ACRE-FT=      10.40


SUBROUTINE RESVOR    STRUCTURE   2
        SURFACE ELEVATION= 2124.00

******************** WARNING MAIN TIME INCREMENT CHECK ********************

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
          12.14                           52.508                    (NULL)
          16.79                            6.755                    (NULL)
          19.29                            5.231                    (NULL)
          21.51                            4.624                    (NULL)
          23.50                            4.064                    (NULL)

  TIME                              HYDROGRAPH, TZERO=  11.50        DELTA T= 0.50        DRAINAGE AREA=   0.75
 11.50    DISCHG        0.00      49.92      36.28      18.99      14.15      11.43      10.04       9.15       8.21       7.19
 16.50    DISCHG        6.66       6.71       6.24       5.70       5.13       5.12       5.17       4.63       4.61       4.04
 21.50    DISCHG        4.62       4.10       4.07       3.48       4.06       3.51       0.31       0.00       0.00
```

```
TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.2600        CFS-HRS=      125.89        ACRE-FT=      10.40

SUBROUTINE REACH     CROSS SECTION   6
LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

******************** WARNING MAIN TIME INCREMENT CHECK ********************

PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
   12.19                          46.898                       (NULL)
   19.29                           5.215                       (NULL)
   21.51                           4.546                       (NULL)
   23.50                           3.984                       (NULL)

 TIME                            HYDROGRAPH, TZERO=  11.50        DELTA T= 0.50        DRAINAGE AREA=   0.75
11.50   DISCHG        0.00     43.12     38.14     21.34     14.81     11.80     10.23      9.27      8.33      7.33
16.50   DISCHG        6.73      6.70      6.31      5.77      5.21      5.12      5.17      4.70      4.61      4.12
21.50   DISCHG        4.54      4.17      4.07      3.56      3.98      3.58      0.75      0.04      0.00      0.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.2578        CFS-HRS=      124.78        ACRE-FT=      10.31

SUBROUTINE RUNOFF    CROSS SECTION  61
AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
COMPUTED CURVE NO. =   92.2

PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                         136.960                     (RUNOFF)
   16.75                           5.043                     (RUNOFF)
   19.25                           3.722                     (RUNOFF)
   21.50                           3.218                     (RUNOFF)
   23.50                           2.770                     (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1333        CFS-HRS=      175.54        ACRE-FT=      14.50

SUBROUTINE ADDHYD    CROSS SECTION   7
INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
   12.05                         181.452                       (NULL)
   19.27                           8.938                       (NULL)
   21.50                           7.764                       (NULL)
   23.50                           6.754                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.4700        CFS-HRS=      300.32        ACRE-FT=      24.81

SUBROUTINE ADDHYD    CROSS SECTION   8
INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.
```

```
******************** WARNING MAIN TIME INCREMENT CHECK ********************

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.17                           300.022                       (NULL)
             21.40                            21.384                       (NULL)
             23.40                            18.496                       (NULL)

   TIME                                HYDROGRAPH, TZERO=   8.50        DELTA T= 0.50        DRAINAGE AREA=   2.44
   8.50    DISCHG        0.00      1.10      1.64      3.36      5.22      8.50     15.98    281.28    232.75    189.75
  13.50    DISCHG      129.70     89.72     67.75     55.45     47.14     40.86     36.55     34.49     32.31     29.91
  18.50    DISCHG       27.24     25.84     25.22     23.62     22.76     20.88     21.35     20.28     19.75     17.96
  23.50    DISCHG       18.46     17.33      9.33      4.48      1.73      0.62      0.20      0.05      0.00      0.00
  28.50    DISCHG        0.00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5157        CFS-HRS=      815.43        ACRE-FT=      67.38


SUBROUTINE REACH     CROSS SECTION   9
          LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.45                           245.132                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5077        CFS-HRS=      802.86        ACRE-FT=      66.34


SUBROUTINE RUNOFF    CROSS SECTION  91
          AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.02                            68.480                     (RUNOFF)
             16.75                             2.521                     (RUNOFF)
             19.25                             1.861                     (RUNOFF)
             21.50                             1.609                     (RUNOFF)
             23.50                             1.385                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1250        CFS-HRS=       87.13        ACRE-FT=       7.20


SUBROUTINE ADDHYD    CROSS SECTION  10
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

EXECUTIVE CONTROL CARD 48 OPERATION UPDATE

WICKENBURG W/S ARIZONA (SUNSET&SUNNYCOVE) 2/5/71

C TABLE VELOCITY INCREMENT = 0.200

8	0.0000	0.0800	0.1800	0.2500	0.3200
8	0.3700	0.4100	0.4500	0.4900	0.5100
8	0.5400	0.5700	0.5900	0.6100	0.6300
8	0.6500	0.6600	0.6700	0.6900	0.7000
8	0.7100	0.7200	0.7300	0.7400	0.7500
8	0.7600	0.7700	0.7700	0.7800	0.7900
8	0.7900	0.8000	0.8100	0.8100	0.8200
8	0.8200	0.8300	0.8300	0.8400	0.8400
8	0.8400	0.8500	0.8500	0.8600	0.8600
8	0.8600	0.8600	0.8700	0.8700	0.8700
8	0.8800	0.8800	0.8800	0.8900	0.8900
8	0.8900	0.8900	0.8900	0.8900	0.9000
8	0.9000	0.9000	0.9000	0.9000	0.9100
8	0.9100	0.9100	0.9100	0.9100	0.9100
8	0.9200	0.9200	0.9200	0.9200	0.9200
8	0.9200	0.9200	0.9200	0.9300	0.9300
8	0.9300	0.9300	0.9300	0.9300	0.9300
9 ENDTBL					

STRUCTURE NO. 1

	ELEVATION	DISCHARGE	STORAGE
8	2156.0004	0.0000	0.0000
9 ENDTBL			

STRUCTURE NO. 2

	ELEVATION	DISCHARGE	STORAGE
8	2124.0004	0.0000	0.0000
9 ENDTBL			

DIMENSIONLESS HYDROGRAPH - DELTA T = 0.02

8	0.0000	0.0150	0.0750	0.1600	0.2800
8	0.4300	0.6000	0.7700	0.8900	0.9700
8	1.0000	0.9800	0.9200	0.8400	0.7500
8	0.6600	0.5650	0.4900	0.4200	0.3650
8	0.3200	0.2790	0.2400	0.2100	0.1800
8	0.1550	0.1300	0.1130	0.0980	0.0860
8	0.0750	0.0650	0.0560	0.0470	0.0410
8	0.0350	0.0300	0.0260	0.0220	0.0190
8	0.0170	0.0150	0.0130	0.0110	0.0090
8	0.0070	0.0050	0.0030	0.0020	0.0010
8	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000
9 ENDTBL					

RAINFALL TABLE NO. 1 TIME INCREMENT = 0.50

```
8                0.0000    0.0050    0.0110    0.0160    0.0220
8                0.0280    0.0350    0.0410    0.0480    0.0560
8                0.0630    0.0710    0.0800    0.0890    0.0980
8                0.1090    0.1200    0.1330    0.1470    0.1630
8                0.1810    0.2040    0.2350    0.2830    0.6630
8                0.7350    0.7720    0.7990    0.8200    0.8380
8                0.8540    0.8680    0.8800    0.8910    0.9020
8                0.9120    0.9210    0.9290    0.9370    0.9450
8                0.9520    0.9590    0.9650    0.9720    0.9780
8                0.9840    0.9890    0.9950    1.0000    1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

			HYDROGRAPHS						OUTPUT OPTIONS					
SUBRTN	XSECTN	STRCT	IN1	IN2	OUT	DATA NO. 1	DATA NO. 2	DATA NO. 3	PK	H	E	V	PH	SM
RUNOFF	1	0	0	0	6	1.350	83.000	1.100	1	0	0	1	0	1
RESVOR	0	1	6	0	7	2156.000	0.000	0.000	1	0	0	1	0	1
REACH	2	0	7	0	5	2800.000	0.790	0.000	1	0	0	1	0	1
RUNOFF	3	0	0	0	6	0.110	92.200	0.250	1	0	0	1	0	1
ADDHYD	4	0	5	6	1	0.000	0.000	0.000	1	0	0	1	0	1
RUNOFF	5	0	0	0	6	0.750	75.000	0.330	1	0	0	1	0	1
RESVOR	0	2	6	0	7	2124.000	0.000	0.000	1	0	0	1	0	1
REACH	6	0	7	0	5	1800.000	0.790	0.000	1	0	0	1	0	1
RUNOFF	61	0	0	0	6	0.240	92.200	0.250	1	0	0	1	0	1
ADDHYD	7	0	5	6	7	0.000	0.000	0.000	1	0	0	1	0	1
ADDHYD	8	0	1	7	6	0.000	0.000	0.000	1	0	0	1	0	1
REACH	9	0	6	0	5	3300.000	0.790	0.000	1	0	0	1	0	1
RUNOFF	91	0	0	0	6	0.120	92.200	0.250	1	0	0	1	0	1
ADDHYD	10	0	5	6	7	0.000	0.000	0.000	0	0	0	0	0	0
ENDATA														

END OF LISTING

ADDITIONS TO TABULAR DATA FOLLOW

STRUCTURE NO. 1

8	2156.0004	0.0000	0.0000
8	2157.0004	24.1000	3.7400
8	2158.0004	24.2000	7.5000
8	2160.0004	24.5000	17.5000
8	2162.0004	24.8000	32.5000
8	2164.0004	25.1000	45.0000
8	2166.0004	25.4000	60.0000
8	2168.0004	25.7000	80.0000
8	2170.0004	26.0000	100.0000
8	2172.0004	26.2000	122.5000
8	2174.0004	26.5000	147.5000
8	2176.0004	26.8000	175.0000

STRUCTURE NO. 2

8	2124.0004	0.0000	0.0000
8	2125.0004	23.2500	4.9000
8	2126.0004	23.5000	10.0000
8	2127.0004	23.7000	17.0000
8	2128.0004	24.0000	24.0000
8	2129.0004	24.2000	27.5000
8	2130.0004	24.4000	31.0000
8	2131.0004	24.6000	45.5000
8	2132.0004	24.9000	60.0000
8	2133.0004	25.1000	71.0000
8	2134.0004	25.3000	82.0000

EXECUTIVE CONTROL CARD 77 OPERATION INCREM, MAIN TIME INCREMENT= 0.50
EXECUTIVE CONTROL CARD 78 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 10/ 0
STARTING TIME= 0.00 RAIN DEPTH= 4.20 RAIN DURATION= 1.00 RAIN TABLE NO.= 1 SOIL CONDITION= 2
ALTERNATE NO.= 2 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= 1.10
COMPUTED CURVE NO. = 83.0

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	985.476	(RUNOFF)
21.76	42.705	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4563 CFS-HRS= 2140.07 ACRE-FT= 176.85

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 2156.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
24.46	26.491	2173.94

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3981 CFS-HRS= 1218.14 ACRE-FT= 100.66

ADDITIONS TO TABULAR DATA FOLLOW

STRUCTURE NO. 1

8	2156.0004	0.0000	0.0000
8	2157.0004	24.1000	3.7400
8	2158.0004	24.2000	7.5000
8	2160.0004	24.5000	17.5000
8	2162.0004	24.8000	32.5000
8	2164.0004	25.1000	45.0000
8	2166.0004	25.4000	60.0000
8	2168.0004	25.7000	80.0000
8	2170.0004	26.0000	100.0000
8	2172.0004	26.2000	122.5000
8	2174.0004	26.5000	147.5000
8	2176.0004	26.8000	175.0000

STRUCTURE NO. 2

8	2124.0004	0.0000	0.0000
8	2125.0004	23.2500	4.9000
8	2126.0004	23.5000	10.0000
8	2127.0004	23.7000	17.0000
8	2128.0004	24.0000	24.0000
8	2129.0004	24.2000	27.5000
8	2130.0004	24.4000	31.0000
8	2131.0004	24.6000	45.5000
8	2132.0004	24.9000	60.0000
8	2133.0004	25.1000	71.0000
8	2134.0004	25.3000	82.0000

EXECUTIVE CONTROL CARD 77 OPERATION INCREM, MAIN TIME INCREMENT= 0.50
EXECUTIVE CONTROL CARD 78 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 10/ 0
STARTING TIME= 0.00 RAIN DEPTH= 4.20 RAIN DURATION= 1.00 RAIN TABLE NO.= 1 SOIL CONDITION= 2
ALTERNATE NO.= 2 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= 1.10
COMPUTED CURVE NO. = 83.0

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	985.476	(RUNOFF)
21.76	42.705	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4563 CFS-HRS= 2140.07 ACRE-FT= 176.85

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 2156.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
24.46	26.491	2173.94

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3981 CFS-HRS= 1218.14 ACRE-FT= 100.66

```
SUBROUTINE REACH     CROSS SECTION   2
          LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             24.58                          26.491                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3950        CFS-HRS=      1215.46        ACRE-FT=      100.44


SUBROUTINE RUNOFF    CROSS SECTION   3
          AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.01                         202.376                     (RUNOFF)
             19.25                           4.729                     (RUNOFF)
             21.50                           4.067                     (RUNOFF)
             23.50                           3.488                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.0313        CFS-HRS=       215.19        ACRE-FT=       17.78


SUBROUTINE ADDHYD    CROSS SECTION   4
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.01                         226.831                       (NULL)
             16.76                          32.774                       (NULL)
             19.26                          31.144                       (NULL)
             21.50                          30.527                       (NULL)
             23.50                          29.985                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4502        CFS-HRS=      1366.48        ACRE-FT=      112.92


SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
          COMPUTED CURVE NO. =   75.0

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.04                         694.355                     (RUNOFF)
             19.26                          24.840                     (RUNOFF)
             21.50                          21.420                     (RUNOFF)
             23.50                          18.497                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.0319        CFS-HRS=       983.51        ACRE-FT=       81.27


SUBROUTINE RESVOR    STRUCTURE   2
```

```
SURFACE ELEVATION= 2124.00

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   20.05                           24.698                        2131.32

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.8702        CFS-HRS=      905.24        ACRE-FT=      74.80


SUBROUTINE REACH     CROSS SECTION   6
LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   20.33                           24.701                         (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.8697        CFS-HRS=      904.98        ACRE-FT=      74.78


SUBROUTINE RUNOFF    CROSS SECTION  61
AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
COMPUTED CURVE NO. =   92.2

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.01                          441.749                       (RUNOFF)
   19.25                           10.322                       (RUNOFF)
   21.50                            8.876                       (RUNOFF)
   23.50                            7.609                       (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.0398        CFS-HRS=      470.83        ACRE-FT=      38.90


SUBROUTINE ADDHYD    CROSS SECTION   7
INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                          463.413                         (NULL)
   19.25                           35.033                         (NULL)
   21.49                           33.572                         (NULL)
   23.49                           32.286                         (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1461        CFS-HRS=     1371.20        ACRE-FT=     113.31


SUBROUTINE ADDHYD    CROSS SECTION   8
INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                          690.281                         (NULL)
   19.25                           66.177                         (NULL)
   21.50                           64.104                         (NULL)
```

```
   23.50                          62.264                          (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7151        CFS-HRS=      2711.91        ACRE-FT=      224.11

SUBROUTINE REACH      CROSS SECTION   9
LENGTH=   3300.00      INPUT COEFFICIENT=  0.7900      INPUT ROUTINGS=  0.00

AVERAGE WATER VELOCITY=   5.800        ROUTING COEFF= 0.7900        MODIFIED COEFFICIENT= 0.9980

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.08                           551.076                        (NULL)
   19.25                            66.101                        (NULL)
   21.50                            63.660                        (NULL)
   23.49                            61.834                        (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7390        CFS-HRS=      2749.69        ACRE-FT=      227.23

SUBROUTINE RUNOFF     CROSS SECTION  91
AREA=   0.12      INPUT RUNOFF CURVE=  92.2      TIME OF CONCENTRATION=  0.25
COMPUTED CURVE NO. =   92.2

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.01                           220.874                      (RUNOFF)
   19.25                             5.161                      (RUNOFF)
   21.50                             4.438                      (RUNOFF)
   23.50                             3.804                      (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.0313        CFS-HRS=       234.76        ACRE-FT=       19.40

SUBROUTINE ADDHYD     CROSS SECTION  10
INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        80    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  3.80     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 2         STORM NO.= 2


SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.57                         844.304                      (RUNOFF)
              21.76                          37.768                      (RUNOFF)
              23.75                          32.872                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1633        CFS-HRS=     1884.85        ACRE-FT=     155.76


SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              24.14                          26.202                       2172.01

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3878        CFS-HRS=     1209.12        ACRE-FT=      99.92


SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              24.36                          26.209                        (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3845        CFS-HRS=     1206.28        ACRE-FT=      99.68


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                         180.134                      (RUNOFF)
              19.25                           4.252                      (RUNOFF)
              21.50                           3.657                      (RUNOFF)
              23.50                           3.136                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.3223        CFS-HRS=      235.85        ACRE-FT=      19.49


SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.
```

```
PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                           204.163                       (NULL)
   16.75                            31.917                       (NULL)
   19.26                            30.406                       (NULL)
   21.50                            29.844                       (NULL)
   23.50                            29.334                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4628        CFS-HRS=      1378.38        ACRE-FT=      113.90


SUBROUTINE RUNOFF    CROSS SECTION   5
AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
COMPUTED CURVE NO. =   75.0

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.05                           571.282                     (RUNOFF)
   19.26                            21.515                     (RUNOFF)
   21.50                            18.590                     (RUNOFF)
   23.50                            16.074                     (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4299        CFS-HRS=       692.11        ACRE-FT=       57.19


SUBROUTINE RESVOR   STRUCTURE   2
SURFACE ELEVATION= 2124.00

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   19.13                            24.517                      2130.58

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5605        CFS-HRS=       755.35        ACRE-FT=       62.42


SUBROUTINE REACH     CROSS SECTION   6
LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   19.15                            24.517                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5612        CFS-HRS=       755.66        ACRE-FT=       62.44


SUBROUTINE RUNOFF    CROSS SECTION  61
AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
COMPUTED CURVE NO. =   92.2

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.01                           392.991                     (RUNOFF)
   19.25                             9.277                     (RUNOFF)
   21.50                             7.981                     (RUNOFF)
   23.50                             6.845                     (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.3305        CFS-HRS=       515.86        ACRE-FT=       42.63
```

```
SUBROUTINE ADDHYD    CROSS SECTION    7
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                         414.472                       (NULL)
              19.25                          33.801                       (NULL)
              21.49                          32.485                       (NULL)
              23.49                          31.337                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.9923        CFS-HRS=     1272.92        ACRE-FT=     105.19


SUBROUTINE ADDHYD    CROSS SECTION    8
           INPUT HYDROGRAPHS= 1,7      OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                         618.601                       (NULL)
              19.25                          64.228                       (NULL)
              21.50                          62.340                       (NULL)
              23.50                          60.676                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.6607        CFS-HRS=     2625.90        ACRE-FT=     217.00


SUBROUTINE REACH     CROSS SECTION    9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.08                         493.397                       (NULL)
              19.25                          64.175                       (NULL)
              21.49                          61.921                       (NULL)
              23.49                          60.269                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.6354        CFS-HRS=     2585.87        ACRE-FT=     213.69


SUBROUTINE RUNOFF    CROSS SECTION   91
           AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                         196.495                     (RUNOFF)
              19.25                           4.638                     (RUNOFF)
              21.50                           3.990                     (RUNOFF)
              23.50                           3.422                     (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.3223        CFS-HRS=      257.29        ACRE-FT=      21.26
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```
SUBROUTINE ADDHYD     CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        82    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  3.40     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 2         STORM NO.= 3


SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.58                         705.492                      (RUNOFF)
              21.77                          32.837                      (RUNOFF)
              23.75                          28.589                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7708        CFS-HRS=     1542.81        ACRE-FT=     127.49


SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              24.18                          26.002                      2170.02

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3737        CFS-HRS=     1196.90        ACRE-FT=      98.91


SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              24.22                          26.003                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3706        CFS-HRS=     1194.14        ACRE-FT=      98.68


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                         157.791                      (RUNOFF)
              19.25                           3.772                      (RUNOFF)
              21.50                           3.246                      (RUNOFF)
              23.50                           2.785                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3295        CFS-HRS=      165.37        ACRE-FT=      13.66


SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.
```

```
PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                           180.411                       (NULL)
   16.76                            31.024                       (NULL)
   19.26                            29.718                       (NULL)
   21.50                            29.229                       (NULL)
   23.50                            28.784                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3766        CFS-HRS=      1297.10        ACRE-FT=      107.19


SUBROUTINE RUNOFF    CROSS SECTION   5
           AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
           COMPUTED CURVE NO. =   75.0

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.05                           453.362                      (RUNOFF)
              19.26                            18.230                      (RUNOFF)
              21.50                            15.780                      (RUNOFF)
              23.50                            13.662                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3751        CFS-HRS=       665.61        ACRE-FT=       55.00


SUBROUTINE RESVOR   STRUCTURE   2
           SURFACE ELEVATION= 2124.00

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              16.95                            24.369                       2129.84

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2734        CFS-HRS=       616.38        ACRE-FT=       50.93


SUBROUTINE REACH     CROSS SECTION   6
           LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              16.96                            24.367                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2724        CFS-HRS=       615.92        ACRE-FT=       50.89


SUBROUTINE RUNOFF    CROSS SECTION  61
           AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                           344.226                      (RUNOFF)
              19.25                             8.230                      (RUNOFF)
              21.50                             7.084                      (RUNOFF)
              23.50                             6.077                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3379        CFS-HRS=       362.12        ACRE-FT=       29.92
```

```
SUBROUTINE ADDHYD    CROSS SECTION    7
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.02                        365.249                      (NULL)
              21.49                         31.325                      (NULL)
              23.49                         30.222                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5269        CFS-HRS=      975.56        ACRE-FT=      80.62


SUBROUTINE ADDHYD    CROSS SECTION    8
           INPUT HYDROGRAPHS= 1,7      OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.02                        545.737                      (NULL)
              19.25                         62.279                      (NULL)
              21.49                         60.537                      (NULL)
              23.49                         58.999                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4215        CFS-HRS=     2247.76        ACRE-FT=     185.75


SUBROUTINE REACH     CROSS SECTION    9
           LENGTH=   3300.00      INPUT COEFFICIENT=  0.7900      INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.09                        434.075                      (NULL)
              21.49                         60.200                      (NULL)
              23.48                         58.649                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4402        CFS-HRS=     2277.19        ACRE-FT=     188.18


SUBROUTINE RUNOFF    CROSS SECTION   91
           AREA=   0.12      INPUT RUNOFF CURVE=  92.2      TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.01                        172.113                    (RUNOFF)
              19.25                          4.115                    (RUNOFF)
              21.50                          3.542                    (RUNOFF)
              23.50                          3.038                    (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.3295        CFS-HRS=      180.40        ACRE-FT=      14.90


SUBROUTINE ADDHYD    CROSS SECTION   10
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7
```

ENDCMP 1

```
EXECUTIVE CONTROL CARD        84    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  2.75     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 2         STORM NO.= 4


SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.59                        488.231                      (RUNOFF)
              21.77                         24.808                      (RUNOFF)
              23.75                         21.643                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2447        CFS-HRS=     1084.46        ACRE-FT=      89.61


SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              23.74                         25.443                      2166.29

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2597        CFS-HRS=     1097.53        ACRE-FT=      90.70


SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              23.72                         25.452                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2590        CFS-HRS=     1096.94        ACRE-FT=      90.65


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.02                        121.338                      (RUNOFF)
              19.25                          2.987                      (RUNOFF)
              21.50                          2.574                      (RUNOFF)
              23.50                          2.210                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.1980        CFS-HRS=      156.04        ACRE-FT=      12.89


SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.
```

```
PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.04                           142.246                       (NULL)
   16.76                            29.479                       (NULL)
   19.25                            28.438                       (NULL)
   21.50                            28.035                       (NULL)
   23.49                            27.668                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3237        CFS-HRS=      1247.27        ACRE-FT=      103.07


SUBROUTINE RUNOFF    CROSS SECTION   5
           AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
           COMPUTED CURVE NO. =   75.0

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.06                           276.190                      (RUNOFF)
              16.75                            17.253                      (RUNOFF)
              19.27                            13.005                      (RUNOFF)
              21.50                            11.311                      (RUNOFF)
              23.50                             9.821                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.7666        CFS-HRS=       371.09        ACRE-FT=       30.66


SUBROUTINE RESVOR   STRUCTURE   2
           SURFACE ELEVATION= 2124.00

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              14.90                            23.691                      2126.95

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.8258        CFS-HRS=       399.73        ACRE-FT=       33.03


SUBROUTINE REACH     CROSS SECTION   6
           LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              15.01                            23.690                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.8268        CFS-HRS=       400.23        ACRE-FT=       33.07


SUBROUTINE RUNOFF    CROSS SECTION  61
           AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                           264.658                      (RUNOFF)
              19.25                             6.520                      (RUNOFF)
              21.50                             5.617                      (RUNOFF)
              23.50                             4.822                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7778        CFS-HRS=       275.37        ACRE-FT=       22.75
```

```
SUBROUTINE ADDHYD    CROSS SECTION    7
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.03                        285.432                      (NULL)
              21.49                         29.171                      (NULL)
              23.49                         28.312                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.0574        CFS-HRS=      675.60        ACRE-FT=      55.83

SUBROUTINE ADDHYD    CROSS SECTION    8
           INPUT HYDROGRAPHS= 1,7      OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.03                        427.644                      (NULL)
              21.49                         57.206                      (NULL)
              23.49                         55.968                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1889        CFS-HRS=     1879.93        ACRE-FT=     155.35

SUBROUTINE REACH     CROSS SECTION    9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.10                        338.937                      (NULL)
              21.49                         56.913                      (NULL)
              23.48                         55.700                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2047        CFS-HRS=     1904.94        ACRE-FT=     157.42

SUBROUTINE RUNOFF    CROSS SECTION   91
           AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.02                        132.329                    (RUNOFF)
              19.25                          3.260                    (RUNOFF)
              21.50                          2.808                    (RUNOFF)
              23.50                          2.411                    (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.7702        CFS-HRS=      137.09        ACRE-FT=      11.32

SUBROUTINE ADDHYD    CROSS SECTION   10
```

```
        INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        86    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  2.30     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 2         STORM NO.= 5


SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.60                         346.805                      (RUNOFF)
              21.78                          19.288                      (RUNOFF)
              23.75                          16.870                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9043        CFS-HRS=      787.94        ACRE-FT=      65.11


SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              18.76                          25.035                       2163.57

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9173        CFS-HRS=      799.23        ACRE-FT=      66.04


SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              18.91                          25.028                        (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9170        CFS-HRS=      799.01        ACRE-FT=      66.03


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                          96.087                      (RUNOFF)
              19.25                           2.441                      (RUNOFF)
              21.50                           2.105                      (RUNOFF)
              23.50                           1.809                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3893        CFS-HRS=       98.62        ACRE-FT=       8.15


SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.
```

```
PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.05                           111.082                       (NULL)
   16.76                            28.323                       (NULL)
   19.25                            27.467                       (NULL)
   21.49                            27.115                       (NULL)
   23.49                            26.790                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.9520        CFS-HRS=      897.03        ACRE-FT=      74.13


SUBROUTINE RUNOFF    CROSS SECTION   5
AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
COMPUTED CURVE NO. =   75.0

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.08                           167.440                     (RUNOFF)
   16.76                            12.547                     (RUNOFF)
   19.27                             9.531                     (RUNOFF)
   21.50                             8.328                     (RUNOFF)
   23.50                             7.258                     (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5950        CFS-HRS=      288.02        ACRE-FT=      23.80


SUBROUTINE RESVOR   STRUCTURE   2
SURFACE ELEVATION= 2124.00

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   13.92                            23.464                       2125.85

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5594        CFS-HRS=      270.76        ACRE-FT=      22.37


SUBROUTINE REACH     CROSS SECTION   6
LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   13.83                            23.465                       (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5591        CFS-HRS=      270.64        ACRE-FT=      22.36


SUBROUTINE RUNOFF    CROSS SECTION  61
AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
COMPUTED CURVE NO. =   92.2

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.02                           209.648                     (RUNOFF)
   19.25                             5.325                     (RUNOFF)
   21.50                             4.593                     (RUNOFF)
   23.50                             3.949                     (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3976        CFS-HRS=      216.48        ACRE-FT=      17.88
```

```
SUBROUTINE ADDHYD    CROSS SECTION   7
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.03                        222.933                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.7613        CFS-HRS=      486.46        ACRE-FT=      40.20


SUBROUTINE ADDHYD    CROSS SECTION   8
           INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.04                        334.016                      (NULL)
              23.26                         41.596                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.8749        CFS-HRS=     1383.48        ACRE-FT=     114.33


SUBROUTINE REACH     CROSS SECTION   9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.11                        264.599                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.8874        CFS-HRS=     1403.22        ACRE-FT=     115.96


SUBROUTINE RUNOFF    CROSS SECTION  91
           AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.02                        104.824                    (RUNOFF)
              19.25                          2.662                    (RUNOFF)
              21.50                          2.296                    (RUNOFF)
              23.50                          1.974                    (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3893        CFS-HRS=      107.59        ACRE-FT=       8.89


SUBROUTINE ADDHYD    CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```

```
EXECUTIVE CONTROL CARD        88    OPERATION  COMPUT,     FROM XSECTN/STRUCT   1/  0     TO XSECTN/STRUCT  10/  0
        STARTING TIME=  0.00     RAIN DEPTH=  1.70     RAIN DURATION=  1.00     RAIN TABLE NO.= 1     SOIL CONDITION= 2
        ALTERNATE NO.= 2         STORM NO.= 6

SUBROUTINE RUNOFF    CROSS SECTION   1
           AREA=   1.35     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=  1.10
           COMPUTED CURVE NO. =   83.0

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.64                         177.004                      (RUNOFF)
              21.79                          12.097                      (RUNOFF)
              23.75                          10.630                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.4966        CFS-HRS=      432.67        ACRE-FT=      35.75

SUBROUTINE RESVOR   STRUCTURE   1
           SURFACE ELEVATION= 2156.00

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              16.24                          24.502                      2160.01

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5023        CFS-HRS=      437.64        ACRE-FT=      36.16

SUBROUTINE REACH     CROSS SECTION   2
           LENGTH=   2800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9993

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              16.32                          24.507                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5028        CFS-HRS=      438.09        ACRE-FT=      36.20

SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=   0.11     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.02                          62.759                      (RUNOFF)
              16.75                           2.311                      (RUNOFF)
              19.25                           1.706                      (RUNOFF)
              21.50                           1.474                      (RUNOFF)
              23.50                           1.269                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1250        CFS-HRS=       79.87        ACRE-FT=       6.60

SUBROUTINE ADDHYD    CROSS SECTION   4
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 1

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.
```

```
          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.08                           68.466                        (NULL)
             21.48                           25.882                        (NULL)
             23.47                           25.604                        (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5497        CFS-HRS=      517.96        ACRE-FT=      42.80


SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   0.75     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  0.33
          COMPUTED CURVE NO. =   75.0

******************** WARNING MAIN TIME INCREMENT CHECK ********************

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.14                           52.508                      (RUNOFF)
             16.79                            6.755                      (RUNOFF)
             19.29                            5.231                      (RUNOFF)
             21.51                            4.624                      (RUNOFF)
             23.50                            4.064                      (RUNOFF)

   TIME                                HYDROGRAPH, TZERO=  11.50        DELTA T= 0.50        DRAINAGE AREA=   0.75
  11.50    DISCHG        0.00      49.92      36.28      18.99      14.15      11.43      10.04       9.15       8.21       7.19
  16.50    DISCHG        6.66       6.71       6.24       5.70       5.13       5.12       5.17       4.63       4.61       4.04
  21.50    DISCHG        4.62       4.10       4.07       3.48       4.06       3.51       0.31       0.00       0.00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.2600        CFS-HRS=      125.89        ACRE-FT=      10.40


SUBROUTINE RESVOR   STRUCTURE   2
          SURFACE ELEVATION= 2124.00

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.52                           14.677                       2124.63

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.2516        CFS-HRS=      121.82        ACRE-FT=      10.06


SUBROUTINE REACH     CROSS SECTION   6
          LENGTH=   1800.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

          AVERAGE WATER VELOCITY=   5.800       ROUTING COEFF= 0.7900       MODIFIED COEFFICIENT= 0.9999

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.63                           14.654                        (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.2516        CFS-HRS=      121.82        ACRE-FT=      10.06


SUBROUTINE RUNOFF    CROSS SECTION  61
          AREA=   0.24     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
          COMPUTED CURVE NO. =   92.2

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.02                          136.960                      (RUNOFF)
```

```
   16.75                          5.043                    (RUNOFF)
   19.25                          3.722                    (RUNOFF)
   21.50                          3.218                    (RUNOFF)
   23.50                          2.770                    (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1333      CFS-HRS=      175.54      ACRE-FT=      14.50

SUBROUTINE ADDHYD    CROSS SECTION   7
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 6 AND 5 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                PEAK DISCHARGES              PEAK ELEVATIONS
   12.03                          141.115                    (NULL)
   21.33                            9.013                    (NULL)
   23.38                            7.573                    (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.4654      CFS-HRS=      297.36      ACRE-FT=      24.57

SUBROUTINE ADDHYD    CROSS SECTION   8
           INPUT HYDROGRAPHS= 1,7     OUTPUT HYDROGRAPH= 6

DUE TO STORAGE OVERFLOW, THE SUM OF HYDROGRAPHS 7 AND 1 WAS TRUNCATED HERE TO 100 VALUES.

           PEAK TIMES                PEAK DISCHARGES              PEAK ELEVATIONS
   12.05                          209.324                    (NULL)
   21.38                           34.884                    (NULL)
   23.41                           33.179                    (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5156      CFS-HRS=      815.32      ACRE-FT=      67.37

SUBROUTINE REACH     CROSS SECTION   9
           LENGTH=   3300.00     INPUT COEFFICIENT=  0.7900     INPUT ROUTINGS=  0.00

           AVERAGE WATER VELOCITY=   5.800      ROUTING COEFF= 0.7900      MODIFIED COEFFICIENT= 0.9980

           PEAK TIMES                PEAK DISCHARGES              PEAK ELEVATIONS
   12.12                          165.781                    (NULL)
   23.31                           33.092                    (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   0.5077      CFS-HRS=      802.81      ACRE-FT=      66.34

SUBROUTINE RUNOFF    CROSS SECTION  91
           AREA=   0.12     INPUT RUNOFF CURVE=  92.2     TIME OF CONCENTRATION=  0.25
           COMPUTED CURVE NO. =   92.2

           PEAK TIMES                PEAK DISCHARGES              PEAK ELEVATIONS
   12.02                           68.480                    (RUNOFF)
   16.75                            2.521                    (RUNOFF)
   19.25                            1.861                    (RUNOFF)
   21.50                            1.609                    (RUNOFF)
```

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23.50                                   1.385                          (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1250        CFS-HRS=        87.13        ACRE-FT=        7.20

SUBROUTINE ADDHYD    CROSS SECTION  10
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

ENDCMP 1
```