WITTMANN ADMS

APPENDIX D

VOLUME I OF II

CAP East & West Area

HEC-2's

FCD 86-24

The WLB Group Inc. for Flood Control District of Maricopa County

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

WITTMANN ADMS

APPENDIX D

VOLUME I OF II

CAP East & West Area

HEC-2's

FCD 86-24

The WLB Group Inc. for Flood Control District of Maricopa County

INPUT FILE: CAP1EAST

OUTPUT FILE: CAP1EAST.OUT

FLOOD CONTROL DISTRICT
RECEIVED
DEC 0 1 1988

	CH ENG		P & PM
	DEP		HYDRO
	ADMIN		LEGT
	FINANCE		FILE
	[illegible]		
	[illegible]		

REM[illegible]

THIS RUN EXECUTED 05/03/88 15:45:26

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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T1 WITTMANN AREA DRAINAGE MASTER STUDY.
T2 100-YEAR STORM EVENT. FIRST 72" PIPE OVERCHUTE EAST OF GRAND AVE.
T3 CAP FLOODPLAIN-#1 EAST

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINC	Q	WSEL	FQ
	0.	0.	0.	0.	.005970	.00	.5	313.	1480.000	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IDW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	54.000	51.000	4.000	39.000	8.000	42.000
5.000	26.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.070	.070	.050	.100	.300	.000	.000	.000	.000	.000
X1	.000	11.000	4960.000	5150.000	.000	.000	.000	.000	.000	.000
GR	1494.000	4500.000	1492.000	4700.000	1491.000	4760.000	1492.000	4840.000	1493.000	4905.000
GR	1492.000	4960.000	1488.000	4990.000	1486.000	5000.000	1488.000	5020.000	1492.000	5150.000
GR	1496.000	5245.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.034	12.000	4970.000	5050.000	170.000	190.000	190.000	.000	.000	.000
GR	1494.000	4570.000	1492.000	4780.000	1491.500	4810.000	1492.000	4850.000	1494.000	4900.000
GR	1495.000	4940.000	1494.000	4970.000	1488.000	4990.000	1487.000	5000.000	1488.000	5015.000
GR	1492.000	5025.000	1493.000	5050.000	.000	.000	.000	.000	.000	.000
X1	.081	7.000	4800.000	5050.000	240.000	255.000	250.000	.000	.000	.000
GR	1497.000	4615.000	1496.000	4800.000	1492.000	4980.000	1490.000	5000.000	1492.000	5020.000
GR	1496.000	5050.000	1497.000	5100.000	.000	.000	.000	.000	.000	.000
X1	.152	8.000	4825.000	5165.000	350.000	380.000	370.000	.000	.000	.000
GR	1501.000	4840.000	1500.000	4825.000	1496.000	4985.000	1493.000	5000.000	1496.000	5020.000
GR	1500.000	5165.000	1500.000	5240.000	1501.000	5370.000	.000	.000	.000	.000
X1	.246	9.000	4920.000	5150.000	500.000	440.000	500.000	.000	.000	.000
GR	1500.000	4475.000	1504.000	4665.000	1502.000	4920.000	1500.000	4975.000	1497.000	5000.000
GR	1500.000	5025.000	1502.000	5150.000	1504.000	5340.000	1504.500	5400.000	.000	.000

X1	.352	6.000	4985.000	5125.000	580.000	600.000	560.000	.000	.000	.000
GR	1508.000	4720.000	1507.000	4925.000	1504.000	4985.000	1502.000	5000.000	1504.000	5100.000
GR	1505.000	5125.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.542	7.000	4890.000	5200.000	660.000	700.000	1000.000	.000	.000	.000
GR	1517.000	4615.000	1515.000	4850.000	1514.000	4850.000	1512.000	4985.000	1510.000	5000.000
GR	1512.000	5020.000	1514.000	5200.000	.000	.000	.000	.000	.000	.000
X1	.655	6.000	4880.000	5100.000	550.000	650.000	600.000	.000	.000	.000
GR	1520.000	4600.000	1518.500	4700.000	1519.500	4880.000	1516.000	5000.000	1519.000	5100.000
GR	1520.000	5200.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.704	5.000	4960.000	5030.000	240.000	270.000	215.000	.000	.000	.000
GR	1521.000	4940.000	1520.000	4960.000	1519.000	5000.000	1500.000	5050.000	1524.000	5260.000
NC	.020	.020	.020	.300	.300	.000	.000	.000	.000	.000
X1	.728	5.000	4984.000	5015.000	125.000	135.000	130.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1525.500	1525.500	.000
GR	1525.500	4984.000	1520.100	4985.000	1520.100	5000.000	1520.190	5014.000	1525.500	5015.000
GB	1.250	1.600	2.600	.000	33.000	3.000	100.000	.000	1520.400	1520.100
X1	.738	5.000	4984.000	5014.000	50.000	50.000	50.000	.000	.000	.000
X2	.000	.000	1.000	1524.400	1525.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1525.500	1525.500	.000
BT	2.000	4960.000	1525.500	1524.400	5100.000	1525.500	1524.400	.000	.000	.000
GR	1525.500	4984.000	1520.400	4985.000	1520.400	5000.000	1520.400	5013.000	1525.500	5014.000
NC	.050	.050	.050	.000	.000	.000	.000	.000	.000	.000
X1	.748	7.000	4960.000	5040.000	55.000	55.000	55.000	.000	.000	.000
GR	1524.000	4950.000	1525.500	4960.000	1524.000	4970.000	1521.000	5000.000	1524.000	5020.000
GR	1525.500	5040.000	1524.000	5050.000	.000	.000	.000	.000	.000	.000
NC	.020	.020	.020	.000	.000	.000	.000	.000	.000	.000
X1	.761	5.000	4985.000	5015.000	70.000	70.000	70.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1528.500	1528.500	.000
GR	1528.500	4985.000	1521.500	4986.000	1521.500	5000.000	1521.500	5014.000	1528.500	5015.000
GB	1.250	1.600	2.600	.000	33.000	3.000	100.000	.000	1521.700	1521.500
X1	.769	5.000	4985.000	5015.000	40.000	40.000	40.000	.000	.000	.000
X2	330.000	.000	1.000	1525.700	1528.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1528.500	1528.500	.000
BT	2.000	4985.000	1528.500	1525.700	5015.000	1528.500	1525.700	.000	.000	.000
GR	1528.500	4985.000	1521.700	4986.000	1521.700	5000.000	1521.700	5014.000	1528.500	5015.000
NC	.070	.070	.050	.100	.300	.000	.000	.000	.000	.000
X1	.797	7.000	4930.000	5050.000	170.000	115.000	150.000	.000	.000	.000
GR	1526.000	4780.000	1526.000	4930.000	1524.000	4985.000	1523.000	5000.000	1524.000	5010.000
GR	1525.000	5050.000	1528.000	5050.000	.000	.000	.000	.000	.000	.000

1

X1	.840	7.000	4935.000	5045.000	240.000	210.000	235.000	.000	.000	.000
GR	1528.000	4850.000	1527.000	4935.000	1524.000	4985.000	1523.000	5000.000	1524.000	5010.000
GR	1527.000	5045.000	1528.000	5070.000	.000	.000	.000	.000	.000	.000
X1	.897	5.000	4940.000	5040.000	300.000	290.000	360.000	.000	.000	.000
GR	1530.000	4940.000	1528.000	4980.000	1526.500	5000.000	1528.000	5015.000	1530.000	5040.000
X1	1.003	7.000	4950.000	5050.000	570.000	550.000	580.000	.000	.000	.000
GR	1575.000	4700.000	1575.000	4950.000	1572.000	4985.000	1571.500	5000.000	1572.000	5010.000

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GR   1535.000   5050.000   1535.000   5265.000       .000       .000       .000       .000       .000       .000

X1      1.118      9.000   4920.000   5050.000    600.000    550.000    610.000       .000       .000       .000
X2    311.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1541.000   4590.000   1540.000   4620.000   1539.000   4920.000   1536.000   4995.000   1535.500   5000.000
GR   1536.000   5025.000   1539.000   5060.000   1540.000   5200.000   1541.000   5240.000       .000       .000

X1      1.192      6.000   4910.000   5080.000    390.000    370.000    350.000       .000       .000       .000
GR   1543.000   4600.000   1544.000   4910.000   1540.000   4980.000   1540.000   5000.000   1540.000   5025.000
GR   1544.000   5080.000       .000       .000       .000       .000       .000       .000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
*PROF 1
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        SLOPS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST



 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00      3.46  1489.46       .00  1488.00  1489.58       .12       .00       .00  1492.00
     319.        0.     319.        0.        0.     117.        0.        0.        0.  1492.00
      .00       .00      2.73       .00      .070      .050      .070      .000  1486.00  4979.02
  .005872        0.        0.        0.         0         0         5       .00     83.58  5067.60
0
 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1489.46

 STA=    4979.    5150.
   PER Q=    100.0
    AREA=    116.8
     VEL=      2.7

 *SECNO  .034
      .03      3.33  1490.38       .00       .00  1490.58       .20       .98       .03  1494.00
     319.        0.     319.        0.        0.     89.        0.        2.        0.  1493.00
      .01       .00      3.60       .00      .070      .050      .070      .000  1487.00  4982.06
  .005043      170.      180.      190.         2         0         0       .00     33.90  5020.96
0
 FLOW DISTRIBUTION FOR SECNO=       .03          CWSEL=   1490.38

 STA=    4982.    5050.
   PER Q=    100.0
    AREA=     88.6
     VEL=      3.6

 *SECNO  .081
      .08      2.59  1492.59       .00       .00  1492.89       .30      2.27       .03  1496.00
     319.        0.     319.        0.        0.     73.        0.        1.        1.  1496.00
      .03       .00      4.38       .00      .070      .050      .070      .000  1490.00  4953.38
  .021097      240.      250.      255.         2         0         0       .00     71.06  5024.44
0
 FLOW DISTRIBUTION FOR SECNO=       .08          CWSEL=   1492.59

 STA=    4953.    5050.
   PER Q=    100.0
    AREA=     72.8
     VEL=      4.4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 SECNO  .152
      .15     3.94  1496.94      .00      .00  1497.05      .11     4.14      .02  1500.00
     319.       0.     319.       0.       0.     120.       0.       2.       1.   1500.00
      .07      .00     2.66      .00     .070     .050     .070     .000  1491.00  4947.02
  .006926     350.     370.     380.        2        0        0      .00   107.41  5054.42
0
 FLOW DISTRIBUTION FOR SECNO=       .15          CWSEL=   1496.94

 STA=    4947.    5165.
   PER Q=    100.0
    AREA=    120.1
     VEL=      2.7

 *SECNO  .246
      .25     3.51  1500.51      .00      .00  1500.64      .12     3.58      .00  1502.00
     319.       0.     319.       0.       0.     113.       0.       3.       3.   1502.00
      .12      .00     2.94      .00     .070     .050     .070     .000  1497.00  4960.89
  .007423     500.     500.     440.        4        0        0      .00    96.19  5057.07
0
 FLOW DISTRIBUTION FOR SECNO=       .25          CWSEL=   1500.51

 STA=    4961.    5150.
   PER Q=    100.0
    AREA=    112.5
     VEL=      2.9

 *SECNO  .352
      .35     2.15  1504.15      .00      .00  1504.24      .09     3.60      .00  1504.00
     319.       0.     319.       0.       0.     133.       0.       5.       4.   1505.00
      .18      .29     2.40      .00     .070     .050     .070     .000  1502.00  4980.50
  .005618     580.     560.     600.        5        0        0      .00   122.93  5103.84
0
 FLOW DISTRIBUTION FOR SECNO=       .35          CWSEL=   1504.15

 STA=    4981.    4985.    5125.
   PER Q=       .0    100.0
    AREA=       .3    133.0
     VEL=       .3      2.4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .542
      .54     2.80  1512.80      .00      .00  1512.94      .14     8.68      .01  1514.00
     319.       0.     319.       0.       0.     107.       0.       7.       7.   1514.00
      .28      .00     2.98      .00     .070     .050     .070     .000  1510.00  4947.03
  .015158     660.    1000.     700.        4        0        0      .00   144.91  5091.94
0
 FLOW DISTRIBUTION FOR SECNO=       .54          CWSEL=   1512.80

 STA=    4947.    5200.
   PER Q=    100.0
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    AREA=    106.9
     VEL=      3.0

 *SECNO  .655
      .65     2.05  1518.05      .00      .00  1518.13      .00     5.19      .01  1519.50
     319.       0.     319.       0.       0.     142.       0.       9.       9.  1519.00
      .35      .00     2.25      .00     .070     .050     .070     .000  1516.00  4929.85
  .005583     550.     600.     650.        4        0        0      .00   133.35  5068.20
0
 FLOW DISTRIBUTION FOR SECNO=       .65          CWSEL=   1518.05

 STA=    4930.    5100.
   PER Q=    100.0
    AREA=    141.5
     VEL=      2.3

 *SECNO  .704
      .70     1.33  1520.38  1520.38      .00  1520.77      .38     2.54      .09  1520.00
     319.       2.     311.       6.       1.      62.       5.      10.      10.  1520.00
      .36     1.30     5.02     1.30     .070     .050     .070     .000  1519.00  4952.31
  .033662     240.     225.     270.        4       19        0      .00   101.73  5054.04
0
 FLOW DISTRIBUTION FOR SECNO=       .70          CWSEL=   1520.38

 STA=    4952.    4960.    5030.    5054.
   PER Q=       .6     97.5      1.9
    AREA=      1.5     61.9      4.6
     VEL=      1.3      5.0      1.3

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 CONV=    .300 CEHV=    .500
 *SECNO  .728

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1525.50 ELREA=     1525.50

      .73     1.55  1521.65  1521.65      .00  1522.41      .76     1.46      .19  1525.50
     319.       0.     319.       0.       0.      46.       0.      10.      10.  1525.50
      .37      .00     6.98      .00     .020     .020     .020     .000  1520.10  4904.71
  .005524     125.     130.     135.        4        9        0      .00    29.58  5014.29
0
 FLOW DISTRIBUTION FOR SECNO=       .73          CWSEL=   1521.65

 STA=    4985.    5015.
   PER Q=    100.0
    AREA=     45.7
     VEL=      7.0

 SPECIAL BRIDGE

 5227 DOWNSTREAM ELEV IS   1521.23 ,NOT   1521.65 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB  XK        XKOR      CDFQ      RDLEN     BWC       BWP       BAREA     SB        ELCHU     ELCHD
     1.25      1.60      2.60       .00     33.00      3.00    120.00       .00   1520.40   1520.10

 *SECNO  .738
 CLOSE R LOW FLOW
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3420 BRIDGE W.S.=   1521.77 BRIDGE VELOCITY=,      6.99      CALCULATED CHANNEL AREA=,      41.

 EGPRS     EGLWC      M3      QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD
                                                          AREA
     .00   1522.90     .00       0.      319.     120.     120.     1524.40   1525.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1525.50 ELREA=     1525.50

     .74     2.01  1522.41      .00      .00  1522.30      .48      .49      .00  1525.50
    319.       0.     319.       0.       0.      57.       0.      10.      10.   1525.50
     .37      .00     5.59      .00     .000     .020     .000     .000  1520.40  4984.61
  .002622     50.      50.      50.        0        0        0      .00    28.79  5013.39
0
1
 05/03/88    15:45:25                                                                          PAGE    8


   SECNO    DEPTH    CWSEL    CRIWS    WEELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      .74          CWSEL=   1522.41

 STA=    4985.    5014.
   PER Q=    100.0
    AREA=     57.1
     VEL=      5.6

 *SECNO  .749
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     .75     2.43  1523.45  1523.45      .00  1524.08      .63      .36      .07  1525.50
    319.       0.     319.       0.       0.      50.       0.      10.      10.   1525.50
     .37      .00     6.38      .00     .050     .050     .050     .000  1521.00  4975.50
  .035510     55.      55.      55.       20       11        0      .00    40.83  5016.33
0
 FLOW DISTRIBUTION FOR SECNO=      .75          CWSEL=   1523.45

 STA=    4976.    5040.
   PER Q=    100.0
    AREA=     50.0
     VEL=      6.4

 *SECNO  .761

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1528.50 ELREA=     1528.50

     .76     2.63  1524.13      .00      .00  1524.41      .28      .23      .10  1528.50
    319.       0.     319.       0.       0.      75.       0.      10.      10.   1528.50
     .38      .00     4.27      .00     .020     .020     .020     .000  1521.50  4985.62
  .001129     70.      70.      70.        2        0        0      .00    28.75  5014.38
0
 FLOW DISTRIBUTION FOR SECNO=      .76          CWSEL=   1524.13

 STA=    4986.    5015.
   PER Q=    100.0
    AREA=     74.6
     VEL=      4.3
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.60	2.60	.00	33.00	3.00	120.00	.00	1521.70	1521.50

*SECNO .769
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1524.17 BRIDGE VELOCITY=, 4.13 CALCULATED CHANNEL AREA=, 74.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRO
.00	1524.57	.11	0.	319.	120.	120.	1525.70	1528.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1528.50 ELREA= 1528.50

.77	2.54	1524.24	.00	.00	1524.57	.32	.15	.00	1528.50
330.	0.	330.	0.	0.	72.	0.	10.	10.	1528.50
.38	.00	4.57	.00	.000	.020	.000	.000	1521.70	4985.63
.001343	40.	40.	40.	0	0	0	.00	29.75	5014.37

FLOW DISTRIBUTION FOR SECNO= .77 CWSEL= 1524.24

STA= 4986. 5015.
PER Q= 100.0
AREA= 72.1
VEL= 4.6

CCHV= .100 CEHV= .300
*SECNO .797
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.80	1.94	1524.94	1524.94	.00	1525.33	.39	.59	.02	1526.00
330.	0.	330.	0.	0.	66.	0.	10.	10.	1525.00
.39	.00	5.00	.00	.070	.050	.070	.000	1523.00	4959.08
.041923	170.	150.	115.	20	19	0	.00	88.61	5047.70

0
FLOW DISTRIBUTION FOR SECNO= .80 CWSEL= 1524.94

STA= 4959. 5050.
PER Q= 100.0
AREA= 66.0
VEL= 5.0

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*SECNO  .840
      .84     2.84  1526.64      .00      .00  1526.70      .06     1.33      .03  1527.00
     330.       0.     330.       0.       0.     166.       0.      11.      11.   1527.00
      .42      .00     1.98      .00     .070     .050     .070     .000  1523.80  4941.13
  .002248     240.     225.     210.        3        0        0      .00    99.59  5040.71

 FLOW DISTRIBUTION FOR SECNO=       .84          CWSEL=   1526.64

 STA=    4941.    5045.
   PER Q=    100.0
    AREA=    166.5
     VEL=      2.0

 *SECNO  .897
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      .90     2.17  1528.67  1528.67      .00  1529.19      .52     1.74      .14  1530.00
     330.       0.     330.       0.       0.      57.       0.      12.      11.   1530.00
      .43      .00     5.78      .00     .070     .050     .070     .000  1526.50  4966.56
  .037697     300.     300.     290.       20       19        0      .00    56.85  5023.40
0
 FLOW DISTRIBUTION FOR SECNO=       .90          CWSEL=   1528.67

 STA=    4967.    5040.
   PER Q=    100.0
    AREA=     57.1
     VEL=      5.8

 *SECNO 1.003
     1.00     2.79  1534.29      .00      .00  1534.39      .10     5.16      .04  1535.00
     330.       0.     330.       0.       0.     129.       0.      13.      12.   1535.00
      .49      .00     2.55      .00     .070     .050     .070     .000  1531.50  4958.27
  .004064     570.     560.     550.        5        0        0      .00    82.28  5040.55
0
 FLOW DISTRIBUTION FOR SECNO=      1.00          CWSEL=   1534.29

 STA=    4958.    5050.
   PER Q=    100.0
    AREA=    129.2
     VEL=      2.6

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 1.118
     1.12     2.01  1537.51      .00      .00  1537.64      .13     3.24      .01  1539.00
     311.       0.     311.       0.       0.     108.       0.      15.      13.   1539.00
      .55      .00     2.88      .00     .070     .050     .070     .000  1535.50  4952.35
  .007363     600.     610.     590.        4        0        0      .00    90.24  5042.58

 FLOW DISTRIBUTION FOR SECNO=      1.12          CWSEL=   1537.51

 STA=    4952.    5060.
   PER Q=    100.0
    AREA=    108.1
     VEL=      2.9
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*SECNO 1.192
     1.19     1.33  1541.33      .00      .00  1541.53      .20     3.07      .02  1544.00
     311.       0.     311.       0.       0.      88.       0.      15.      14.   1544.00
      .58      .00     3.55      .00     .070     .050     .070     .000  1540.00  4556.71
  .014036     380.     390.     370.        4        0        0      .00    86.58  5043.30
0
FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1541.33

STA=    4957.    5080.
  PER Q=    100.0
   AREA=     87.5
    VEL=      3.6

1
PROFILE FOR STREAM  CAP FLOODPLAIN-#1 EAST


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1480.     1490.     1500.     1510.     1520.     1530.     1540.     1550.     1560.     1570.
    SECNO   CUMDIS

      .00      0.  C    I  WE L M    .         .         .         .         .         .         .         .         .
              50.  C    I   E RLM    .         .         .         .         .         .         .         .         .
             100.  C     I  E  L     .         .         .         .         .         .         .         .         .
             150.  C     I  E  RL    .         .         .         .         .         .         .         .         .
      .03    200.  C     I  WE RL    .         .         .         .         .         .         .         .         .
             250.  C      I .E  L    .         .         .         .         .         .         .         .         .
             300.  C      I .WE RL   .         .         .         .         .         .         .         .         .
             350.  C       I. E  L   .         .         .         .         .         .         .         .         .
             400.  C       I. E  RL  .         .         .         .         .         .         .         .         .
      .08    450.  C        I  E  LM .         .         .         .         .         .         .         .         .
             500.  C        I  E   LM.         .         .         .         .         .         .         .         .
             550.  C        .I  E  LM.         .         .         .         .         .         .         .         .
             600.  C        .I  WE  LM         .         .         .         .         .         .         .         .
             650.  C        . I  E  LM         .         .         .         .         .         .         .         .
             700.  C        . I   E  LM        .         .         .         .         .         .         .         .
             750.  C        . I   E  LM        .         .         .         .         .         .         .         .
      .15    800.  C        .  I   E  LM       .         .         .         .         .         .         .         .
             850.  C        .  I   E  LM       .         .         .         .         .         .         .         .
             900.  C        .   I   E L M      .         .         .         .         .         .         .         .
             950.  C        .   I   E .LM      .         .         .         .         .         .         .         .
            1000.  C        .    I  E .LM      .         .         .         .         .         .         .         .
            1050.  C        .    I   E.L M     .         .         .         .         .         .         .         .
            1100.  C        .    I   E.L M     .         .         .         .         .         .         .         .
            1150.  C        .     I  WEL M     .         .         .         .         .         .         .         .
            1200.  C        .     I   E L M    .         .         .         .         .         .         .         .
            1250.  C        .      I  E L M    .         .         .         .         .         .         .         .
      .25   1300.  C        .      I  .EL  M   .         .         .         .         .         .         .         .
            1350.  C        .      I  .EL  M   .         .         .         .         .         .         .         .
            1400.  C        .       I .ELR M   .         .         .         .         .         .         .         .
            1450.  C        .       I .WEL M   .         .         .         .         .         .         .         .
            1500.  C        .        I. EL M   .         .         .         .         .         .         .         .
            1550.  C        .        I. EL M   .         .         .         .         .         .         .         .
            1600.  C        .         I WERM   .         .         .         .         .         .         .         .
            1650.  C        .         I  ERM   .         .         .         .         .         .         .         .
            1700.  C        .         .I ERM   .         .         .         .         .         .         .         .
            1750.  C        .         .I WEM   .         .         .         .         .         .         .         .
            1800.  C        .         .I  ER   .         .         .         .         .         .         .         .
            1850.  C        .         . I ER   .         .         .         .         .         .         .         .
      .35   1900.  C        .         . I ER   .         .         .         .         .         .         .         .
            1950.  C        .         . I  E   .         .         .         .         .         .         .         .
            2000.  C        .         .  I ER  .         .         .         .         .         .         .         .
            2050.  C                   .  I WE
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      2100. C     .     .  I ER .     .     .     .     .     .     .     .
      2150. C     .     .  I EL .     .     .     .     .     .     .     .
      2200. C     .     .  I  ER .    .     .     .     .     .     .     .
      2250. C     .     .   I EL .    .     .     .     .     .     .     .
      2300. C     .     .   I  ER.    .     .     .     .     .     .     .
      2350. C     .     .    I EL.    .     .     .     .     .     .     .
      2400. C     .     .    I WER    .     .     .     .     .     .     .
      2450. C     .     .    I  EL    .     .     .     .     .     .     .
      2500. C     .     .     I EL    .     .     .     .     .     .     .
      2550. C     .     .     I  EL   .     .     .     .     .     .     .
      2600. C     .     .      I EL   .     .     .     .     .     .     .
      2650. C     .     .      I .EL  .     .     .     .     .     .     .
      2700. C     .     .      I .EL  .     .     .     .     .     .     .
      2750. C     .     .       I. EL .     .     .     .     .     .     .
      2800. C     .     .       I. EL .     .     .     .     .     .     .
      2850. C     .     .        I WEL .    .     .     .     .     .     .
 .54  2900. C     .     .        I  EL .    .     .     .     .     .     .
      2950. C     .     .        .I ELM .   .     .     .     .     .     .
      3000. C     .     .        .I  EL .   .     .     .     .     .     .
      3050. C     .     .        . I ELM .  .     .     .     .     .     .
      3100. C     .     .        . I  EL .  .     .     .     .     .     .
      3150. C     .     .        .  I ELM . .     .     .     .     .     .
      3200. C     .     .        .  I WEL . .     .     .     .     .     .
      3250. C     .     .        .   I ELM .      .     .     .     .     .
      3300. C     .     .        .   I ERL .      .     .     .     .     .
      3350. C     .     .        .    I ELM.      .     .     .     .     .
      3400. C     .     .        .    I ERL.      .     .     .     .     .
      3450. C     .     .        .     I ELM      .     .     .     .     .
 .65  3500. C     .     .        .     I ERL      .     .     .     .     .
      3550. C     .     .        .      I EL      .     .     .     .     .
      3600. C     .     .        .      I EL      .     .     .     .     .
      3650. C     .     .        .       I EM     .     .     .     .     .
 .70  3700. .     .     .        .        IWE     .     .     .     .     .
      3750. .     .     .        .        I.ELM   .     .     .     .     .
      3800. .     .     .        .         IWE L  .     .     .     .     .
 .73  3850. .     .     .        .         I E   L .     .     .     .     .
 .74  3900. C     .     .        .         I WE  L .     .     .     .     .
 .75  3950. .     .     .        .         .I WE L .     .     .     .     .
 .76  4000. C     .     .        .          . I E    L.  .     .     .     .
 .77  4050. C     .     .        .          . I WE   L. .     .     .     .
      4100. C     .     .        .          . I WE RL . .     .     .     .
      4150. C     .     .        .           . I ERL  .     .     .     .
 .80  4200. .     .     .        .           . I EL   .     .     .     .
      4250. C     .     .        .           . I WE   .     .     .     .
      4300. C     .     .        .           .  I  EM .     .     .     .
      4350. C     .     .        .           .   I EL .     .     .     .
      4400. C     .     .        .           .   I WEM .    .     .     .
 .84  4450. C     .     .        .           .   I  EM .    .     .     .
      4500. C     .     .        .           .   I  EL .    .     .     .
      4550. C     .     .        .           .    I WEM.    .     .     .
      4600. C     .     .        .           .    I  EL.    .     .     .
      4650. C     .     .        .           .     I EL.    .     .     .
      4700. C     .     .        .           .     I WEL    .     .     .
 .90  4750. .     .     .        .           .      I EL    .     .     .
      4800. C     .     .        .           .      I WE    .     .     .
      4850. C     .     .        .           .      I  EL   .     .     .
      4900. C     .     .        .           .       I WE   .     .     .
      4950. C     .     .        .           .       I .EL  .     .     .
      5000. C     .     .        .           .        I.WE  .     .     .
      5050. C     .     .        .           .        I. EL .     .     .
      5100. C     .     .        .           .         I EL .     .     .
      5150. C     .     .        .           .         I  EL .    .     .
      5200. C     .     .        .           .         .I EL .    .     .
      5250. C     .     .        .           .         .I  E .    .     .
 1.00 5300. C     .     .        .           .         . I EL .   .     .
      5350. C                                            I  E
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        5400.  C     .     .     .     .     . I  EL  .     .     .     .     .
        5450.  C     .     .     .     .     . I  EL  .     .     .     .     .
        5500.  C     .     .     .     .     .  I ELM  .     .     .     .     .
        5550.  C     .     .     .     .     . I  EL  .     .     .     .     .
        5600.  C     .     .     .     .     . I  ELM .     .     .     .     .
        5650.  C     .     .     .     .     .  I ELM .     .     .     .     .
        5700.  C     .     .     .     .     .  I WELM.     .     .     .     .
        5750.  C     .     .     .     .     . I  ELM.     .     .     .     .
        5800.  C     .     .     .     .     .   I EL M     .     .     .     .
        5850.  C     .     .     .     .     .   I E LM     .     .     .     .
   1.12 5900.  C     .     .     .     .     .    I EL.M    .     .     .     .
        5950.  C     .     .     .     .     .    I E LM    .     .     .     .
        6000.  C     .     .     .     .     .     IWEL M   .     .     .     .
        6050.  C     .     .     .     .     .    I E.LM    .     .     .     .
        6100.  C     .     .     .     .     .     IWE L    .     .     .     .
        6150.  C     .     .     .     .     .     I E L    .     .     .     .
        6200.  C     .     .     .     .     .      IWE L   .     .     .     .
        6250.  C     .     .     .     .     .       IE L   .     .     .     .
   1.19 6300.  C     .     .     .     .     .       IWEML  .     .     .     .
1
 05/03/88    15:45:25                                                    PAGE   12
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THIS RUN EXECUTED 05/03/88 15:46:11

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#1 EAST

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	X_CH	DEPTH	ELMIN	10K*S	VCH
	.000	319.00	1489.46	4979.02	5067.60	.00	88.58	.00	3.46	1486.00	58.72	2.73
	.034	319.00	1490.38	4982.06	5020.96	.92	38.90	180.00	3.38	1487.00	50.43	3.63
	.081	319.00	1492.59	4953.28	5024.44	2.21	71.06	250.00	2.59	1490.00	210.37	4.38
	.152	319.00	1496.94	4947.02	5054.42	4.35	107.41	370.00	3.94	1493.00	69.36	2.66
	.246	319.00	1500.51	4960.89	5057.07	3.57	96.19	500.00	3.51	1497.00	74.23	2.84
	.352	319.00	1504.15	4980.90	5103.84	3.64	122.93	560.00	2.15	1502.00	56.18	2.40
	.542	319.00	1512.80	4947.03	5091.94	8.65	144.91	1000.00	2.80	1510.00	151.58	2.93
	.655	319.00	1518.05	4929.83	5068.20	5.25	138.35	600.00	2.05	1516.00	55.83	2.25
	.704	319.00	1520.38	4952.31	5054.04	2.33	101.73	225.00	1.38	1519.00	336.62	5.02
	.720	319.00	1521.65	4984.71	5014.29	1.27	29.58	130.00	1.55	1520.10	55.24	6.98
*	.738	319.00	1522.41	4984.61	5013.39	.76	28.79	50.00	2.01	1520.40	26.22	5.59

*	.748	319.00	1523.45	4975.50	5016.33	1.04	40.83	55.00	2.45	1521.00	355.10	6.31
	.761	319.00	1524.13	4985.62	5014.30	.68	28.75	70.00	2.63	1521.50	11.29	4.27
	.769	330.00	1524.24	4985.63	5014.37	.11	28.75	40.00	2.54	1521.70	13.43	4.57
	.797	330.00	1524.94	4989.08	5047.70	.70	88.61	150.00	1.94	1523.00	419.23	5.08
	.840	330.00	1526.64	4941.13	5040.71	1.69	99.59	225.00	2.04	1523.80	22.49	1.94
*	.897	330.00	1528.67	4966.56	5023.40	2.04	56.85	300.00	2.17	1526.50	376.97	3.78

1

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SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
1.003	330.00	1534.29	4958.27	5040.55	5.62	82.28	550.00	2.79	1531.50	40.64	2.55
1.118	311.00	1537.51	4952.35	5042.58	3.22	50.24	610.00	2.01	1535.50	73.69	2.88
1.192	311.00	1541.33	4956.71	5043.30	3.82	86.58	390.00	1.33	1540.00	140.96	3.55

1

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .738 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= .748 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .748 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= .748 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= .797 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .797 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= .797 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= .897 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .897 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= .897 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

1

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THIS RUN EXECUTED 05/03/88 15:46:15

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HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION 1.1
****

PROJECT: WITTMANN ADMS

CIRCLE CITY – WASH 1

DESIGNER: BKH

DATE: 1-11-88

HYDROLOGIC AND CHANNEL INFORMATION

CAPACITY Q_1 = 315

ACTUAL Q_2 = 80 + 198 = 278

TW_1 = ____

TW_2 = ____

CULVERT CAPACITY CHECK O.K.

SKETCH

STATION: Sec. .540

ALLOWABLE OUTLET VELOCITY = ____

CULVERT TYPE	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL K_e	d_c	$\frac{d_c+D}{2}$	h_o	H	LS_o	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
6'x6' BOX CULVERT	315	6'x6'	1.17	7.0	.5	4.4	5.2	5.2	1.85	.5	6.55	7.0			INLET CONTROL
100-YEAR	278	6'x6'	1.05	6.3											W.S. ELEV 1868.5 + 6.3 = 1874.8
50-YEAR	159	6'x6'	.73	4.4											W.S. ELEV 1868.5 + 4.9 = 1872.9
10-YEAR	33	6'x6'	.25	1.5											W.S. ELEV 1868.5 + 1.5 = 1870.0

SUMMARY & RECOMMENDATIONS:

W.S. ELEV AT Sec. .540 1868.5 + 6.3 = 1874.8

W.S. ELEV. AT Sec. .573 = 1878.66 FROM 100-yr. HEC 1 RUN [C22]

Figure 5

INPUT FILE: CAP2EAST

OUTPUT FILE: CAP2EAST.OUT

1

THIS RUN EXECUTED 05/03/88 15:46:27

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
*************************************************

T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR STORM EVENT.  2ND PIPE OVERCHUTE EAST OF GRAND AVE.
T3      CAP FLOODPLAIN-#2 EAST

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .006360     .00       .5     350.  1434.500    .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH     FN      ALLDC    IBW     CHNIM    ITRACE

   -1.000    .000     .000     .000     .000     .000     .000     .000     .000   15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   38.000   43.000    1.000   53.000   54.000   51.000    4.000   39.000    8.000   42.000


    5.000   26.000    .000     .000     .000     .000     .000     .000     .000     .000


NC     .070     .070     .050     .100     .300     .000     .000     .000     .000     .000
X1     .000    3.000 4810.000 5305.000     .000     .000     .000     .000     .000     .000
GR  1436.000 4910.000 1433.000 5000.000 1436.000 5305.000     .000     .000     .000     .000

X1     .048    6.000 4910.000 5075.000  255.000  250.000  255.000     .000     .000     .000
GR  1439.000 4910.000 1436.000 4985.000 1435.000 5000.000 1436.000 5020.000 1440.000 5075.000
GR  1440.500 5160.000    .000     .000     .000     .000     .000     .000     .000     .000

X1     .115    4.000 4910.000 5075.000  370.000  300.000  350.000     .000     .000     .000
GR  1439.800 4910.000 1437.000 5000.000 1440.000 5030.000 1440.500 5075.000     .000     .000

X1     .250    5.000 4940.000 5035.000  715.000  715.000  715.000     .000     .000     .000
GR  1444.000 4380.000 1442.500 4940.000 1441.000 5000.000 1443.200 5035.000 1444.000 5135.000

X1     .370    9.000 4780.000 5080.000  635.000  635.000  635.000     .000     .000     .000
GR  1448.000 4320.000 1446.000 4780.000 1444.000 4980.000 1443.700 5020.000 1444.000 5020.000
GR  1445.000 5080.000 1446.000 5240.000 1448.000 5550.000 1443.000 5600.000    .000     .000

X1     .528   12.000 4980.000 5020.000  835.000  835.000  835.000     .000     .000     .000
GR  1454.000 4140.000 1452.000 4470.000 1451.500 4500.000 1452.000 4545.000 1451.500 4620.000
GR  1452.000 4760.000 1451.500 4850.000 1452.000 4980.000 1451.000 5000.000 1451.500 5020.000
GR  1452.000 5345.000 1454.000 5635.000    .000     .000     .000     .000     .000     .000
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X1	.704	7.000	4930.000	5040.000	910.000	940.000	930.000	.000	.000	.000
GR	1460.000	4470.000	1459.000	4545.000	1459.000	4930.000	1450.000	5000.000	1459.000	5040.000
GR	1459.000	5450.000	1460.000	5540.000	.000	.000	.000	.000	.000	.000
X1	.902	13.000	4985.000	5020.000	1050.000	1020.000	1040.000	.000	.000	.000
GR	1469.000	4670.000	1469.000	4760.000	1468.000	4960.000	1467.100	4930.000	1468.000	4950.000
GR	1469.000	4965.000	1468.000	4985.000	1467.000	5000.000	1468.000	5020.000	1468.000	5030.000
GR	1467.000	5145.000	1468.000	5200.000	1468.500	5305.000	.000	.000	.000	.000
X1	1.072	7.000	4990.000	5030.000	890.000	915.000	900.000	.000	.000	.000
GR	1477.000	4930.000	1476.000	4980.000	1472.000	4990.000	1472.000	5000.000	1472.200	5010.000
GR	1476.000	5030.000	1477.000	5100.000	.000	.000	.000	.000	.000	.000
X1	1.237	6.000	4955.000	5020.000	850.000	850.000	870.000	.000	.000	.000
GR	1484.000	4860.000	1480.000	4955.000	1478.000	5000.000	1480.000	5020.000	1484.000	5040.000
GR	1486.000	5110.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.315	6.000	4980.000	5020.000	400.000	405.000	415.000	.000	.000	.000
GR	1487.000	4960.000	1484.000	4980.000	1481.000	5000.000	1484.000	5020.000	1488.000	5150.000
GR	1489.000	5260.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.394	5.000	4920.000	5055.000	380.000	440.000	415.000	.000	.000	.000
GR	1490.000	4920.000	1488.000	4960.000	1484.500	5000.000	1484.000	5030.000	1490.000	5055.000
NC	.020	.020	.020	.300	.500	.000	.000	.000	.000	.000
X1	1.488	5.000	4980.000	5020.100	75.000	75.000	75.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1491.000	1491.000	.000
GR	1490.500	4980.000	1485.000	4980.100	1485.000	5000.000	1485.000	5020.000	1490.500	5020.100
SB	1.250	1.600	2.600	.000	43.000	3.000	220.000	.000	1485.200	1485.000
X1	1.417	5.000	4980.000	5020.100	45.000	45.000	45.000	.000	.000	.000
X2	.000	.000	1.000	1490.500	1492.000	.000	.000	2.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1492.000	1492.000	.000
BT	2.000	4980.000	1492.000	1490.500	5020.100	1492.000	1490.500	.000	.000	.000
GR	1491.000	4980.000	1485.200	4980.100	1485.200	5000.000	1485.200	5020.000	1490.500	5020.100
NC	.050	.050	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.428	5.000	4970.000	5080.000	60.000	60.000	50.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1491.000	1491.000	.000
GR	1491.000	4970.000	1488.000	4990.000	1485.500	5000.000	1488.000	5050.000	1491.000	5080.000
NC	.020	.020	.020	.000	.000	.000	.000	.000	.000	.000
X1	1.440	6.000	4950.000	5050.000	65.000	65.000	65.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1493.000	1493.000	.000
GR	1493.000	4950.000	1488.000	4985.000	1486.000	4990.000	1486.000	5000.000	1486.000	5015.000
GR	1493.000	5050.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
SB	1.250	1.600	2.600	.000	50.000	5.000	330.000	5.000	1486.200	1486.000

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X1	1.446	6.000	4950.000	5050.000	30.000	30.000	30.000	.000	.000	.000
[illegible]	354.000	.000	1.000	1491.000	1494.000	.000	.000	1.330	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1494.000	1494.000	.000
BT	2.000	4950.000	1494.000	1491.000	5050.000	1494.000	1491.000	.000	.000	.000
GR	1494.000	4950.000	1488.000	4985.000	1486.000	4990.000	1486.000	5000.000	1486.000	5015.000
GR	1494.000	5050.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.484	7.000	4980.000	5025.000	95.000	95.000	95.000	.000	.000	.000
GR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

GR	1492.000	5055.000	1494.000	5085.000	.000	.000	.000	.000	.000	.000
X1	1.499	5.000	4950.000	5040.000	215.000	135.000	100.000	.000	.000	.000
GR	1493.000	4900.000	1492.000	4960.000	1489.000	5000.000	1492.000	5040.000	1496.000	5060.000
X1	1.595	6.000	4930.000	5010.000	510.000	525.000	510.000	.000	.000	.000
	1496.000	4890.000	1496.000	4930.000	1492.000	4950.000	1492.000	5000.000	1492.000	5010.000
GR	1496.000	5030.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.627	5.000	4930.000	5180.000	515.000	495.000	500.000	.000	.000	.000
GR	1502.000	4875.000	1500.000	4930.000	1496.500	5000.000	1500.000	5180.000	1502.000	5200.000
X1	1.786	7.000	4945.000	5030.000	450.000	435.000	400.000	.000	.000	.000
GR	1504.000	4790.000	1502.000	4945.000	1500.000	4990.000	1499.000	5000.000	1500.000	5010.000
GR	1502.000	5030.000	1504.000	5050.000	.000	.000	.000	.000	.000	.000
X1	1.903	7.000	4000.000	5140.000	610.000	645.000	620.000	.000	.000	.000
GR	1509.000	4720.000	1508.000	4820.000	1504.000	4980.000	1503.000	5000.000	1504.000	5010.000
GR	1508.000	5140.000	1509.000	5250.000	.000	.000	.000	.000	.000	.000
X1	2.020	6.000	4930.000	5240.000	600.000	585.000	615.000	.000	.000	.000
GR	1512.000	4790.000	1512.000	4930.000	1508.000	4980.000	1506.000	5000.000	1508.000	5015.000
GR	1512.000	5240.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.124	7.000	4970.000	5265.000	535.000	515.000	500.000	.000	.000	.000
GR	1516.000	4615.000	1512.000	4970.000	1510.000	5000.000	1510.000	5030.000	1512.000	5065.000
GR	1515.000	5100.000	1516.000	5310.000	.000	.000	.000	.000	.000	.000
X1	2.246	5.000	4980.000	5070.000	535.000	670.000	645.000	.000	.000	.000
GR	1520.000	4770.000	1516.000	4990.000	1514.000	5000.000	1516.000	5020.000	1520.000	5310.000
X1	2.360	7.000	4910.000	5060.000	600.000	605.000	600.000	.000	.000	.000
	1525.000	4790.000	1524.000	4910.000	1520.000	4980.000	1519.000	5000.000	1520.000	5020.000
GR	1524.000	5060.000	1525.000	5115.000	.000	.000	.000	.000	.000	.000
X1	2.467	7.000	4930.000	5040.000	500.000	555.000	565.000	.000	.000	.000
X2	323.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1529.000	4890.000	1528.000	4930.000	1524.000	4985.000	1523.000	5000.000	1524.000	5010.000
GR	1528.000	5040.000	1532.000	5210.000	.000	.000	.000	.000	.000	.000

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X1	2.558	8.000	4970.000	5090.000	485.000	490.000	490.000	.000	.000	.000
GR	1533.000	4940.000	1532.000	4970.000	1528.000	4990.000	1525.000	5000.000	1528.000	5010.000
GR	1528.000	5045.000	1533.000	5090.000	1534.000	5160.000	.000	.000	.000	.000
X1	2.636	6.000	4890.000	5040.000	415.000	415.000	415.000	.000	.000	.000
GR	1536.000	4890.000	1532.000	4990.000	1531.000	5000.000	1532.000	5040.000	1536.000	5040.000
GR	1538.000	5135.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.661	4.000	4915.000	5075.000	135.000	125.000	130.000	.000	.000	.000
GR	1536.000	4915.000	1533.000	4990.000	1533.000	5015.000	1535.000	5075.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     1.48  1434.48      .00  1434.50  1434.54      .06      .00      .00  1436.00
     350.       0.     350.       0.       0.     181.       0.       0.       0.  1436.00
      .00      .00     1.93      .00     .070     .050     .070     .000  1433.00  4906.16
  .006307       0.       0.       0.        0        0        4      .00   244.48  5150.64

 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1434.48

 STA=    4906.    5305.
   PER Q=    100.0
    AREA=    181.1
     VEL=      1.9

 *SECNO  .048
      .05     2.07  1437.07      .00      .00  1437.39      .32     2.77      .08  1439.00
     350.       0.     350.       0.       0.      77.       0.       1.       1.  1440.00
      .02      .00     4.53      .00     .070     .050     .070     .000  1435.00  4958.22
  .023011     255.     255.     250.        3        0        0      .00    76.51  5034.73
0
 FLOW DISTRIBUTION FOR SECNO=       .05          CWSEL=   1437.07

 STA=    4958.    5075.
   PER Q=    100.0
    AREA=     77.2
     VEL=      4.5

 *SECNO  .118
      .12     2.79  1439.79      .00      .00  1439.86      .07     2.45      .02  1439.50
     350.       0.     350.       0.       0.     164.       0.       2.       2.  1440.50
      .06      .00     2.14      .00     .070     .050     .070     .000  1437.00  4910.39
  .003328     370.     350.     300.        4        0        0      .00   117.49  5027.88

 FLOW DISTRIBUTION FOR SECNO=       .12          CWSEL=   1439.79

 STA=    4910.    5075.
   PER Q=    100.0
    AREA=    163.8
     VEL=      2.1

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IOC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .250
      .25     2.05  1443.05      .00      .00  1443.15      .13     3.28      .01  1442.50
     350.       39.     311.       0.       54.     113.       0.       4.       5.  1443.00
      .14      .72     2.74      .02     .070     .050     .070     .000  1441.00  4739.75
  .006726     715.     715.     715.        3        0        0      .00   293.89  5038.64
0
 FLOW DISTRIBUTION FOR SECNO=       .25          CWSEL=   1443.05

 STA=    4740.    4940.    5035.    5039.
   PER Q=     11.1     88.9       .0
    AREA=     53.7    113.5       .1
     VEL=       .7      2.7       .0

 *SECNO  .370
      .37     1.01  1445.51      .00      .00  1445.54      .03     2.30      .01  1445.00
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     350.      0.     341.      9.      0.     241.     21.      0.     10.   1445.00
      .27     .00     1.42     .42    .070     .050    .070    .000  1443.70  4828.97
   .002395    635.    635.    635.       4        0       0     .00   332.67  5161.64
0
 FLOW DISTRIBUTION FOR SECNO=       .37          CWSEL=   1445.51

 STA=    4829.    5080.    5162.
   PER Q=     97.5      2.5
    AREA=    241.1     20.8
     VEL=      1.4       .4

 *SECNO  .528

 3265 DIVIDED FLOW

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      .53     .92  1451.92  1451.92     .00  1452.25     .12     5.37     .03  1452.03
     350.     153.     100.      97.     91.      22.     58.      12.     20.   1451.50
      .36    1.67     4.55     1.67    .070     .050    .070    .000  1451.00  4474.63
   .049432    835.     835.     835.      20       11       0     .00   744.62  5294.85
0
 FLOW DISTRIBUTION FOR SECNO=       .53          CWSEL=   1451.92

 STA=    4475.    4500.    4538.    4620.    4738.    4853.    4960.    5020.    5295.
   PER Q=      2.6      3.9      6.4     12.0      7.7     11.1     23.6     27.8
    AREA=      5.4      8.0     13.4     25.0     16.1     23.2     22.0     58.1
     VEL=      1.7      1.7      1.7      1.7      1.7      1.7      4.5      1.7

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    SE       HV       HL       BLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO  .704
      .70    1.39  1459.39     .00     .00  1459.41     .02     7.35     .01  1459.00
     350.     97.     150.     103.    156.     98.    166.      18.     38.   1458.00
      .61     .62     1.53     .62    .070     .050    .070    .000  1458.00  4515.00
   .003106    910.     930.     940.       3        0       0     .00   563.23  5485.04
0
 FLOW DISTRIBUTION FOR SECNO=       .70          CWSEL=   1459.39

 STA=    4516.    4545.    4930.    5240.    5450.    5485.
   PER Q=      .6     27.0     42.8     28.8      .8
    AREA=     5.7    149.9     97.8    159.6     6.8
     VEL=      .4       .6      1.5       .6      .4

 *SECNO  .902

 3265 DIVIDED FLOW

 3685 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      .90    1.02  1468.02  1468.02     .00  1468.22     .20     8.48     .05  1468.00
     350.     73.      85.     132.     24.      18.     59.      24.     53.   1468.00
      .69    3.10     4.65     3.24    .070     .050    .070    .000  1467.00  4396.86
   .058247   1050.    1040.    1020.       5       19       0     .00   273.65  5204.72
0
 FLOW DISTRIBUTION FOR SECNO=       .90          CWSEL=   1468.02
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 STA=    4897.    4930.    4950.    5000.    5090.    5145.    5200.    5205.
   PER Q=     12.6      8.4     24.3      .2     27.3     97.3      .0
    AREA=     14.2      9.4     18.3     1.6     28.7     28.7      .1
     VEL=      3.1      3.1      4.6      .4      3.3      3.3      .1

 *SECNO 1.072
     1.07     3.52  1475.52      .00      .00  1475.67      .15     7.44      .01  1472.00
     350.      26.      324.       0.      15.     101.       0.      26.      56.   1476.00
      .78     1.65     3.20      .00     .070     .050     .070     .000  1472.00  4981.20
  .003126     890.     900.     915.        8        0        0      .00    46.41  5027.60
0
 FLOW DISTRIBUTION FOR SECNO=      1.07          CWSEL=   1475.52

 STA=    4981.    4990.    5030.
   PER Q=      7.3     92.7
    AREA=     15.5    101.4
     VEL=      1.6      3.2

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORRAR   TOPWID     ENDST


 *SECNO 1.237
     1.24     2.33  1480.33      .00      .00  1480.58      .25     4.88      .03  1480.00
     350.       1.      349.       0.       1.      86.       0.      28.      58.   1480.00
      .84      .72     4.05      .71     .070     .050     .070     .000  1479.00  4947.27
  .012735     890.     870.     850.        3        0        0      .00    74.35  5021.63

 FLOW DISTRIBUTION FOR SECNO=      1.24          CWSEL=   1480.33

 STA=    4947.    4955.    5020.    5022.
   PER Q=       .3     99.7      .1
    AREA=      1.3     86.1      .3
     VEL=       .7      4.1      .7

 *SECNO 1.315
     1.32     3.52  1484.52      .00      .00  1484.80      .28     4.21      .01  1484.00
     350.       1.      346.       3.       1.      81.       4.      28.      58.   1484.00
      .86      .78     4.28      .78     .070     .050     .070     .000  1481.00  4976.54
  .008256     400.     415.     405.        3        0        0      .00    62.33  5036.87
0
 FLOW DISTRIBUTION FOR SECNO=      1.32          CWSEL=   1484.52

 STA=    4977.    4980.    5020.    5037.
   PER Q=       .2     98.8     1.0
    AREA=       .9     80.8     4.4
     VEL=       .3      4.3      .9

 *SECNO 1.394
     1.39     3.23  1487.73      .00      .00  1487.90      .17     3.09      .01  1490.00
     350.       0.      350.       0.       0.     104.       0.      30.      59.   1490.00
      .90      .00     3.35      .00     .070     .050     .070     .000  1484.50  4963.07
  .006735     380.     415.     440.        3        0        0      .00    64.63  5027.70
0
 FLOW DISTRIBUTION FOR SECNO=      1.39          CWSEL=   1487.73

 STA=    4963.    5055.
   PER Q=    100.0
    AREA=    104.4
     VEL=      7.4
```

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AREB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=    .300 CEHV=    .500
*SECNO 1.408

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1491.00 ELREA=     1491.00

     1.41     2.06  1487.86      .00      .00  1488.01      .15      .09      .01  1490.50
     350.       0.     350.       0.       0.     114.       0.      30.      59.  1490.50
      .90      .00     3.06      .00     .020     .020     .020     .000  1485.03  4980.05
  .000499      75.      75.      75.        2        0        0      .00    40.00  5020.05
0
 FLOW DISTRIBUTION FOR SECNO=      1.41          CWSEL=   1487.86

 STA=    4980.    5020.
   PER Q=    100.0
    AREA=    114.3
     VEL=      3.1


 SPECIAL BRIDGE

 SB  XK       XKOR     CDFB     RDLEV    BWC      SWP      BAREA    SS       ELCHU    ELCHD
     1.25     1.60     2.60      .00    43.00     3.00   220.00      .00   1485.20  1485.00

 *SECNO 1.417
 CLASS A LOW FLOW

 3420 BRIDGE W.S.=   1487.94 BRIDGE VELOCITY=,      3.00      CALCULATED CHANNEL AREA=,      109.

  EGPRS     EGLWC      H3       QWEIR     QLOW      BAREA   TRAPEZOID      ELLC     ELTRD
                                                            AREA
       .00   1488.05      .03       0.      350.      220.      212.     1490.50   1491.00


 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1492.00 ELREA=     1492.00

     1.42     2.69  1487.89      .00      .00  1488.05      .16      .05      .00  1491.00
     350.       0.     350.       0.       0.     107.       0.      31.      59.  1490.50
      .91      .00     3.26      .00     .000     .000     .000     .000  1485.23  4980.25
  .000608      45.      45.      45.        0        0        0      .00    40.00  5020.05
0
 FLOW DISTRIBUTION FOR SECNO=      1.42          CWSEL=   1487.89

 STA=    4980.    5020.
   PER Q=    100.0
    AREA=    107.4
     VEL=      3.3
```



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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AREB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
```

```
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAN    TOPWID    ENDST


 *SECNO 1.428

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1491.00 ELREA=     1491.00

     1.43     2.37  1487.87      .00      .00  1488.29      .42      .11      .13  1491.00
     350.       0.     350.       0.       0.      68.       0.      31.      59.   1491.00
      .91      .00     5.18      .00     .050     .050     .050     .000  1485.50  4990.51
   .024390     60.      60.      60.        3        0        0      .00    56.95  5047.46
0
 FLOW DISTRIBUTION FOR SECNO=      1.43          CWSEL=   1487.87

 STA=    4991.    5080.
   PER Q=    100.0
    AREA=     67.6
     VEL=      5.2

 *SECNO 1.440

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1493.00 ELREA=     1493.00

     1.44     2.28  1488.28      .00      .00  1488.61      .32      .29      .03  1493.00
     350.       0.     350.       0.       0.      77.       0.      31.      59.   1493.00
      .92      .00     4.56      .00     .020     .020     .020     .000  1485.00  4983.02
   .001792     65.      65.      65.        2        0        0      .00    43.39  5026.41
0
 FLOW DISTRIBUTION FOR SECNO=      1.44          CWSEL=   1488.28

 STA=    4983.    5050.
   PER Q=    100.0
    AREA=     76.8
     VEL=      4.6

 CCHV=    .100 CEHV=    .300

 SPECIAL BRIDGE

 SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.60      2.60       .00     50.00      5.00    330.00      5.00   1486.20   1486.00

 *SECNO 1.446
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XMR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 CLASS A LOW FLOW

 3420 BRIDGE W.S.=   1488.36 BRIDGE VELOCITY=,      2.75      CALCULATED CHANNEL AREA=,      121.

 EGPRS     ESLWC      H3       QWEIR     QLOW      BAREA   TRAPEZOID      ELLC      ELTRD
                                                            AREA
      .00   1488.72      .14       0.      350.      330.      331.     1491.00   1494.00


 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1494.00 ELREA=     1494.00

     1.46     2.43  1488.43      .03      .00  1488.72      .28      .11      .00  1494.00
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     354.      0.     354.      0.      0.     81.      0.     31.     59.   1494.00
      .92     .00     4.38     .00    .000    .050    .000    .000  1486.00  4982.55
   .009546     30.     30.     30.       0       0       0     .00    43.03  5025.58
0
 FLOW DISTRIBUTION FOR SECNO=      1.45          CWSEL=   1483.42

 STA=    4983.    5050.
   PER Q=    100.0
    AREA=     80.9
     VEL=      4.4

 *SECNO 1.484
     1.48     2.33  1489.33     .00     .00  1489.57     .24     .34     .01  1488.00
     354.      15.     333.      7.     14.     82.      7.     31.     59.   1488.00
      .92     1.03     4.04     1.02    .100    .050    .100    .000  1487.00  4958.44
   .008302     95.     95.     95.       2       0       0     .00    76.52  5034.95
0
 FLOW DISTRIBUTION FOR SECNO=      1.49          CWSEL=   1489.33

 STA=    4958.    4980.    5025.    5033.
   PER Q=      4.2     93.9      1.9
    AREA=     14.3     82.2      6.6
     VEL=      1.0      4.0      1.0

 *SECNO 1.498
     1.50     2.41  1491.41     .00     .00  1491.74     .32     2.14     .03  1492.00
     354.      0.     354.      0.      0.     78.      0.     31.     59.   1492.00
      .94     .00     4.56     .00    .100    .050    .100    .000  1489.00  4967.83
   .018417    215.    180.    135.       2       0       0     .00    64.33  5032.17
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      1.50          CWSEL=   1491.41

 STA=    4968.    5040.
   PER Q=    100.0
    AREA=     77.6
     VEL=      4.6

 *SECNO 1.595
     1.60     2.95  1494.96     .00     .00  1495.06     .10     3.30     .02  1496.00
     354.      0.     330.     24.      0.    125.     22.     33.     60.   1492.00
      .99     .00     2.64     1.09    .100    .050    .100    .000  1492.00  4945.60
   .003276    510.    510.    505.       5       0       0     .00    73.20  5024.80
0
 FLOW DISTRIBUTION FOR SECNO=      1.60          CWSEL=   1494.96

 STA=    4946.    5010.    5025.
   PER Q=     93.3      6.7
    AREA=    124.9     21.9
     VEL=      2.6      1.1

 *SECNO 1.627
     1.63     1.70  1498.20     .00     .00  1498.38     .18     3.30     .02  1500.00
     354.      0.     354.      0.      0.    104.      0.     34.     62.   1500.00
     1.03     .00     3.40     .00    .100    .050    .100    .000  1496.50  4965.08
   .016234    515.    530.    495.       3       0       0     .00   121.87  5087.75
0
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 FLOW DISTRIBUTION FOR SECNO=      1.63          CWSEL=   1498.20

 STA=    4966.    5180.
   PER Q=    100.0
    AREA=    104.0
     VEL=      3.4

 SECNO 1.786
      1.79     3.17  1502.17      .00      .00  1502.29      .12     3.09      .01  1502.00
      354.       0.     354.       0.       1.     129.       0.      36.      63.  1502.00
      1.08      .20     2.73      .20     .100     .030     .100     .000  1499.00  4931.91
   .004853     450.     480.     435.        5        0        0      .00   103.16  5035.07
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      1.79          CWSEL=   1502.17

 STA=    4932.    4945.    5030.    5035.
   PER Q=      .1     99.9      .0
    AREA=     1.1    129.4      .4
     VEL=      .2      2.7      .2

 *SECNO 1.903
      1.90     2.54  1505.54      .00      .00  1505.62      .08     3.33      .00  1508.00
      354.       0.     354.       0.       0.     152.       0.      38.      65.  1508.00
      1.16      .00     2.33      .00     .100     .050     .100     .000  1503.00  4911.07
   .005986     610.     620.     645.        4        0        0      .00   148.72  5059.79
0
 FLOW DISTRIBUTION FOR SECNO=      1.90          CWSEL=   1505.54

 STA=    4911.    5140.
   PER Q=    100.0
    AREA=    151.9
     VEL=      2.3

 *SECNO 2.020
      2.02     3.30  1509.30      .00      .00  1509.40      .10     3.79      .00  1512.00
      354.       0.     354.       0.       0.     140.       0.      40.      67.  1512.00
      1.22      .00     2.54      .00     .100     .050     .100     .000  1506.00  4963.66
   .006308     600.     615.     595.        4        0        0      .00   124.88  5088.54
0
 FLOW DISTRIBUTION FOR SECNO=      2.02          CWSEL=   1509.30

 STA=    4964.    5240.
   PER Q=    100.0
    AREA=    139.5
     VEL=      2.5

 *SECNO 2.124
      2.12     2.16  1512.16      .00      .00  1512.26      .10     2.85      .00  1512.00
      354.       0.     354.       0.       1.     140.       0.      41.      68.  1512.00
      1.28      .18     2.53      .18     .100     .050     .100     .000  1510.00  4956.13
   .004334     535.     550.     515.        5        0        0      .00   110.69  5066.82
0
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.13 CWSEL= 1512.16

STA= 4956. 4970. 5065. 5067.
PER Q= .1 99.9 .0
AREA= 1.1 139.8 .1
VEL= .2 2.5 .2

*SECNO 2.246

2.25	2.66	1516.66	1516.42	.00	1517.02	.36	4.69	.08	1516.00
354.	10.	331.	13.	11.	66.	16.	43.	70.	1516.00
1.32	.85	5.00	.85	.100	.050	.100	.000	1514.00	4945.62
.014575	635.	645.	670.	7	8	0	.00	121.85	5067.47

0
FLOW DISTRIBUTION FOR SECNO= 2.25 CWSEL= 1516.66

STA= 4946. 4980. 5020. 5067.
PER Q= 2.7 93.5 3.7
AREA= 11.3 66.2 15.5
VEL= .9 5.0 .9

*SECNO 2.360

2.36	2.72	1521.72	.00	.00	1521.84	.12	4.79	.02	1524.00
354.	0.	354.	0.	0.	129.	0.	45.	71.	1524.00
1.38	.00	2.74	.00	.100	.050	.100	.000	1519.00	4949.33
.005031	600.	600.	605.	3	0	0	.00	87.26	5037.19

FLOW DISTRIBUTION FOR SECNO= 2.36 CWSEL= 1521.72

STA= 4950. 5060.
PER Q= 100.0
AREA= 129.3
VEL= 2.7

*SECNO 2.467

2.47	2.65	1525.65	.00	.00	1525.89	.24	4.01	.04	1528.00
323.	0.	323.	0.	0.	83.	0.	46.	72.	1528.00
1.42	.00	3.90	.00	.100	.050	.100	.000	1523.00	4962.27
.011280	580.	565.	555.	2	0	0	.00	60.13	5022.40

0
1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.47 CWSEL= 1525.65

STA= 4962. 5040.
PER Q= 100.0
AREA= 92.9
VEL= 3.9

*SECNO 2.558

2.56	3.42	1529.42	.00	.00	1529.55	.13	3.65	.01	1532.00
323.	0.	323.	0.	0.	113.	0.	47.	73.	1533.00
1.47	.00	2.87	.00	.100	.050	.100	.000	[illegible]	[illegible]

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  .005481     485.     480.     480.       5       0       0     .00    74.94  5067.82
0
 FLOW DISTRIBUTION FOR SECNO=      2.56          CWSEL=   1529.42

 STA=    4983.    5090.
   PER Q=    100.0
   AREA=    112.5
    VEL=      2.9

 *SECNO 2.636
      2.64     2.05  1533.05      .00      .00  1533.32      .27     3.72      .04  1536.00
      323.       0.     323.       0.       0.      77.       0.      48.      74.   1536.00
      1.50      .00     4.20      .00     .100     .050     .100     .000  1531.00  4956.47
  .017292     415.     415.     415.        4       0       0      .00    68.76  5025.23
0
 FLOW DISTRIBUTION FOR SECNO=      2.64          CWSEL=   1533.05

 STA=    4956.    5040.
   PER Q=    100.0
   AREA=     76.9
    VEL=      4.2

 *SECNO 2.661
      2.66     1.66  1534.66      .00      .00  1534.78      .12     1.44      .02  1536.00
      323.       0.     323.       0.       0.     115.       0.      48.      74.   1536.00
      1.51      .00     2.80      .00     .100     .050     .100     .000  1533.00  4944.05
  .007732     135.     130.     125.        3       0       0      .00   104.14  5048.19
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    IFRIAL   IOC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      2.66          CWSEL=   1534.66

 STA=    4944.    5075.
   PER Q=    100.0
   AREA=    115.4
    VEL=      2.8

1
 PROFILE FOR STREAM  CAP FLOODPLAIN-#2 EAST


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.     1600.
    SECNO   CUMDIS

      .00      0.  C     EL .        .         .         .         .         .         .         .         .
               50.  C     WE .        .         .         .         .         .         .         .         .
              100.  C     IEL.        .         .         .         .         .         .         .         .
              150.  C     IEL.        .         .         .         .         .         .         .         .
              200.  C     IELR        .         .         .         .         .         .         .         .
              250.  C     I ER        .         .         .         .         .         .         .         .
      .05     300.  C      IEL        .         .         .         .         .         .         .         .
              350.  C      IEL        .         .         .         .         .         .         .         .
              400.  C      IEL        .         .         .         .         .         .         .         .
              450.  C      IEL
```

	500.	C	IEL	.	.	.	.	.	.	.	.	.	.
	550.	C	I E	.	.	.	.	.	.	.	.	.	.
	600.	C	I E	.	.	.	.	.	.	.	.	.	.
.12	650.	C	IE	.	.	.	.	.	.	.	.	.	.
	700.	C	IE	.	.	.	.	.	.	.	.	.	.
	750.	C	IE	.	.	.	.	.	.	.	.	.	.
	800.	C	IER	.	.	.	.	.	.	.	.	.	.
	850.	C	IER	.	.	.	.	.	.	.	.	.	.
	900.	C	IWE	.	.	.	.	.	.	.	.	.	.
	950.	C	ILE	.	.	.	.	.	.	.	.	.	.
	1000.	C	I.E	.	.	.	.	.	.	.	.	.	.
	1050.	C	IE	.	.	.	.	.	.	.	.	.	.
	1100.	C	IE	.	.	.	.	.	.	.	.	.	.
	1150.	C	IE	.	.	.	.	.	.	.	.	.	.
	1200.	C	IEM	.	.	.	.	.	.	.	.	.	.
	1250.	C	IEM	.	.	.	.	.	.	.	.	.	.
	1300.	C	IEM	.	.	.	.	.	.	.	.	.	.
.25	1350.	C	.IE	.	.	.	.	.	.	.	.	.	.
	1400.	C	.IE	.	.	.	.	.	.	.	.	.	.
	1450.	C	.IE	.	.	.	.	.	.	.	.	.	.
	1500.	C	.IE	.	.	.	.	.	.	.	.	.	.
	1550.	C	.IEM	.	.	.	.	.	.	.	.	.	.
	1600.	C	.IEM	.	.	.	.	.	.	.	.	.	.
	1650.	C	.IEM	.	.	.	.	.	.	.	.	.	.
	1700.	C	.IEM	.	.	.	.	.	.	.	.	.	.
	1750.	C	.IEM	.	.	.	.	.	.	.	.	.	.
	1800.	C	.IEM	.	.	.	.	.	.	.	.	.	.
	1850.	C	. WEM	.	.	.	.	.	.	.	.	.	.
	1900.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	1950.	C	. IEM	.	.	.	.	.	.	.	.	.	.
.37	2000.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2050.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2100.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2150.	C	. ELM	.	.	.	.	.	.	.	.	.	.
	2200.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2250.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2300.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2350.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2400.	C	. EM	.	.	.	.	.	.	.	.	.	.
	2450.	C	. WEM	.	.	.	.	.	.	.	.	.	.
	2500.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2550.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2600.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	2650.	C	. EM	.	.	.	.	.	.	.	.	.	.
	2700.	C	. ELM	.	.	.	.	.	.	.	.	.	.
	2750.	C	. IEM	.	.	.	.	.	.	.	.	.	.
.53	2800.	.	. EM	.	.	.	.	.	.	.	.	.	.
	2850.	C	. EM	.	.	.	.	.	.	.	.	.	.
	2900.	C	. EM	.	.	.	.	.	.	.	.	.	.
	2950.	C	. IE	.	.	.	.	.	.	.	.	.	.
	3000.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	3050.	C	. IEM	.	.	.	.	.	.	.	.	.	.
	3100.	C	. EM	.	.	.	.	.	.	.	.	.	.
	3150.	C	. EM	.	.	.	.	.	.	.	.	.	.
	3200.	C	. IE	.	.	.	.	.	.	.	.	.	.
	3250.	C	. IE	.	.	.	.	.	.	.	.	.	.
	3300.	C	. IEM.	.	.	.	.	.	.	.	.	.	.
	3350.	C	. EM.	.	.	.	.	.	.	.	.	.	.
	3400.	C	. EM.	.	.	.	.	.	.	.	.	.	.
	3450.	C	. IE.	.	.	.	.	.	.	.	.	.	.
	3500.	C	. IE.	.	.	.	.	.	.	.	.	.	.
	3550.	C	. IE.	.	.	.	.	.	.	.	.	.	.
	3600.	C	. EM	.	.	.	.	.	.	.	.	.	.
	3650.	C	. EM	.	.	.	.	.	.	.	.	.	.
	3700.	C	. IE	.	.	.	.	.	.	.	.	.	.
.73	3750.	C	. IE										

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      3800. C     .    IE     .    .    .    .    .    .    .    .
      3850. C     .    IE     .    .    .    .    .    .    .    .
      3900. C     .    EM     .    .    .    .    .    .    .    .
      3950. C     .    IE     .    .    .    .    .    .    .    .
      4000. C     .    IE     .    .    .    .    .    .    .    .
      4050. C     .    IE     .    .    .    .    .    .    .    .
      4100. C     .    .E     .    .    .    .    .    .    .    .
      4150. C     .    .EM    .    .    .    .    .    .    .    .
      4200. C     .    .IE    .    .    .    .    .    .    .    .
      4250. C     .    .IE    .    .    .    .    .    .    .    .
      4300. C     .    .IE    .    .    .    .    .    .    .    .
      4350. C     .    . E    .    .    .    .    .    .    .    .
      4400. C     .    . EM   .    .    .    .    .    .    .    .
      4450. C     .    . IE   .    .    .    .    .    .    .    .
      4500. C     .    . IE   .    .    .    .    .    .    .    .
      4550. C     .    . IE   .    .    .    .    .    .    .    .
      4600. C     .    .  E   .    .    .    .    .    .    .    .
      4650. C     .    .  WE  .    .    .    .    .    .    .    .
      4700. C     .    .  IE  .    .    .    .    .    .    .    .
      4750. C     .    .  IE  .    .    .    .    .    .    .    .
 .90  4800. .     .    .  E   .    .    .    .    .    .    .    .
      4850. C     .    .  E   .    .    .    .    .    .    .    .
      4900. C     .    .  WE  .    .    .    .    .    .    .    .
      4950. C     .    .  IE  .    .    .    .    .    .    .    .
      5000. C     .    .  IE  .    .    .    .    .    .    .    .
      5050. C     .    .  IE  .    .    .    .    .    .    .    .
      5100. C     .    .  IEM .    .    .    .    .    .    .    .
      5150. C     .    .  IWE .    .    .    .    .    .    .    .
      5200. C     .    .   IE .    .    .    .    .    .    .    .
      5250. C     .    .   IE .    .    .    .    .    .    .    .
      5300. C     .    .   IEM .   .    .    .    .    .    .    .
      5350. C     .    .   IEM .   .    .    .    .    .    .    .
      5400. C     .    .   I E .   .    .    .    .    .    .    .
      5450. C     .    .   I E .   .    .    .    .    .    .    .
      5500. C     .    .   ILEM .  .    .    .    .    .    .    .
      5550. C     .    .    IEM .  .    .    .    .    .    .    .
      5600. C     .    .    IER .  .    .    .    .    .    .    .
      5650. C     .    .    I E .  .    .    .    .    .    .    .
 1.07 5700. C     .    .    I EM.  .    .    .    .    .    .    .
      5750. C     .    .    I EM.  .    .    .    .    .    .    .
      5800. C     .    .    I EM.  .    .    .    .    .    .    .
      5850. C     .    .    IEM.   .    .    .    .    .    .    .
      5900. C     .    .    IEM.   .    .    .    .    .    .    .
      5950. C     .    .    IWEM   .    .    .    .    .    .    .
      6000. C     .    .    I EM   .    .    .    .    .    .    .
      6050. C     .    .    ILEM   .    .    .    .    .    .    .
      6100. C     .    .    ILEM   .    .    .    .    .    .    .
      6150. C     .    .     IEM   .    .    .    .    .    .    .
      6200. C     .    .     IE.M  .    .    .    .    .    .    .
      6250. C     .    .     IE.M  .    .    .    .    .    .    .
      6300. C     .    .     IWEM  .    .    .    .    .    .    .
      6350. C     .    .     ILEM  .    .    .    .    .    .    .
      6400. C     .    .     ILEM  .    .    .    .    .    .    .
      6450. C     .    .      IE M .    .    .    .    .    .    .
      6500. C     .    .      IE M .    .    .    .    .    .    .
 1.24 6550. C     .    .      IE M .    .    .    .    .    .    .
      6600. C     .    .      IWEM .    .    .    .    .    .    .
      6650. C     .    .      ILEM .    .    .    .    .    .    .
      6700. C     .    .       IE M .   .    .    .    .    .    .
      6750. C     .    .       IE M .   .    .    .    .    .    .
      6800. C     .    .       IWEM .   .    .    .    .    .    .
      6850. C     .    .       ILEM .   .    .    .    .    .    .
      6900. C     .    .       I EM .   .    .    .    .    .    .
 1.32 6950. C     .    .       .IE M .  .    .    .    .    .    .
      7000. C     .    .       .IWEM .  .    .    .    .    .    .
      7050. C                   I EM
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      7100.  C     .     .    .I EX    .     .     .     .     .     .     .
      7150.  C     .     .    .I EM    .     .     .     .     .     .     .
      7200.  C     .     .    . IEL    .     .     .     .     .     .     .
      7250.  C     .     .    . IWEM   .     .     .     .     .     .     .
      7300.  C     .     .    . I EL   .     .     .     .     .     .     .
      7350.  C     .     .    . I EL   .     .     .     .     .     .     .
1.39  7400.  C     .     .    . I EL   .     .     .     .     .     .     .
1.41  7450.  C     .     .    .  IEL   .     .     .     .     .     .     .
1.42  7500.  C     .     .    .  IERL  .     .     .     .     .     .     .
1.43  7550.  C     .     .    .  IE L  .     .     .     .     .     .     .
      7600.  C     .     .    .  IE L  .     .     .     .     .     .     .
1.44  7650.  C     .     .    .  IE  L .     .     .     .     .     .     .
1.45  7700.  C     .     .    .  IE  L .     .     .     .     .     .     .
1.48  7750.  C     .     .    .   IE M .     .     .     .     .     .     .
      7800.  C     .     .    .   IE M .     .     .     .     .     .     .
      7850.  C     .     .    .   IE M .     .     .     .     .     .     .
      7900.  C     .     .    .   I EM .     .     .     .     .     .     .
1.50  7950.  C     .     .    .    IEM .     .     .     .     .     .     .
      8000.  C     .     .    .    IEM .     .     .     .     .     .     .
      8050.  C     .     .    .    IEM .     .     .     .     .     .     .
      8100.  C     .     .    .    IEL .     .     .     .     .     .     .
      8150.  C     .     .    .    IWE .     .     .     .     .     .     .
      8200.  C     .     .    .    IRE .     .     .     .     .     .     .
      8250.  C     .     .    .    IRE .     .     .     .     .     .     .
      8300.  C     .     .    .     IEM .     .     .     .     .     .     .
      8350.  C     .     .    .     IEL .     .     .     .     .     .     .
      8400.  C     .     .    .     IEL .     .     .     .     .     .     .
1.60  8450.  C     .     .    .     IWE .     .     .     .     .     .     .
      8500.  C     .     .    .     I E .     .     .     .     .     .     .
      8550.  C     .     .    .     IREM.     .     .     .     .     .     .
      8600.  C     .     .    .      IEL.     .     .     .     .     .     .
      8650.  C     .     .    .      IEL.     .     .     .     .     .     .
      8700.  C     .     .    .      IEL.     .     .     .     .     .     .
      8750.  C     .     .    .      IELM     .     .     .     .     .     .
      8800.  C     .     .    .      I EM     .     .     .     .     .     .
      8850.  C     .     .    .       IEL     .     .     .     .     .     .
      8900.  C     .     .    .       IELM    .     .     .     .     .     .
1.63  8950.  C     .     .    .       IELM    .     .     .     .     .     .
      9000.  C     .     .    .       IELM    .     .     .     .     .     .
      9050.  C     .     .    .        IEM    .     .     .     .     .     .
      9100.  C     .     .    .        IEM    .     .     .     .     .     .
      9150.  C     .     .    .        IEM    .     .     .     .     .     .
      9200.  C     .     .    .        IELM   .     .     .     .     .     .
      9250.  C     .     .    .        IELM   .     .     .     .     .     .
      9300.  C     .     .    .        I.EM   .     .     .     .     .     .
      9350.  C     .     .    .        I.EM   .     .     .     .     .     .
      9400.  C     .     .    .        I.EM   .     .     .     .     .     .
1.79  9450.  C     .     .    .         IEM   .     .     .     .     .     .
      9500.  C     .     .    .         IEM   .     .     .     .     .     .
      9550.  C     .     .    .         IEM   .     .     .     .     .     .
      9600.  C     .     .    .         IWEM  .     .     .     .     .     .
      9650.  C     .     .    .         I EM  .     .     .     .     .     .
      9700.  C     .     .    .         I EM  .     .     .     .     .     .
      9750.  C     .     .    .         I EM  .     .     .     .     .     .
      9800.  C     .     .    .         .IEL  .     .     .     .     .     .
      9850.  C     .     .    .         .IELM .     .     .     .     .     .
      9900.  C     .     .    .         .IELM .     .     .     .     .     .
      9950.  C     .     .    .         .IELM .     .     .     .     .     .
     10000.  C     .     .    .         .I EL .     .     .     .     .     .
1.90 10050.  C     .     .    .          . IELM     .     .     .     .     .
     10100.  C     .     .    .          . IELM     .     .     .     .     .
     10150.  C     .     .    .          . IELM     .     .     .     .     .
     10200.  C     .     .    .          . IELM     .     .     .     .     .
     10250.  C     .     .    .          . IE L     .     .     .     .     .
     10300.  C     .     .    .          . I EL     .     .     .     .     .
     10350.  C                            I EL
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      10400.  C     .     .     .     . I EL  .     .     .     .     .     .
      10450.  C     .     .     .     . I EL  .     .     .     .     .     .
      10500.  C     .     .     .     . IELM  .     .     .     .     .     .
      10550.  C     .     .     .     . IE L  .     .     .     .     .     .
      10600.  C     .     .     .     . IWEL  .     .     .     .     .     .
      10650.  C     .     .     .     . I EL  .     .     .     .     .     .
2.02  10700.  C     .     .     .     . I EL  .     .     .     .     .     .
      10750.  C     .     .     .     . I EL  .     .     .     .     .     .
      10800.  C     .     .     .     . I EL  .     .     .     .     .     .
      10850.  C     .     .     .     . IELM  .     .     .     .     .     .
      10900.  C     .     .     .     . IELM  .     .     .     .     .     .
      10950.  C     .     .     .     . IELM  .     .     .     .     .     .
      11000.  C     .     .     .     . IELM  .     .     .     .     .     .
      11050.  C     .     .     .     . I EM  .     .     .     .     .     .
      11100.  C     .     .     .     . I EM  .     .     .     .     .     .
      11150.  C     .     .     .     . IE M  .     .     .     .     .     .
      11200.  C     .     .     .     . IE M  .     .     .     .     .     .
2.12  11250.  C     .     .     .     . IE M  .     .     .     .     .     .
      11300.  C     .     .     .     . IE M  .     .     .     .     .     .
      11350.  C     .     .     .     . IE M  .     .     .     .     .     .
      11400.  C     .     .     .     . ILEM  .     .     .     .     .     .
      11450.  C     .     .     .     . IE M. .     .     .     .     .     .
      11500.  C     .     .     .     . IE M. .     .     .     .     .     .
      11550.  C     .     .     .     . IE M. .     .     .     .     .     .
      11600.  C     .     .     .     . IE M. .     .     .     .     .     .
      11650.  C     .     .     .     . IWEM. .     .     .     .     .     .
      11700.  C     .     .     .     . ILEM. .     .     .     .     .     .
      11750.  C     .     .     .     . IE M  .     .     .     .     .     .
      11800.  C     .     .     .     . IE M  .     .     .     .     .     .
      11850.  C     .     .     .     . IE M  .     .     .     .     .     .
2.25  11900.  .     .     .     .     . IWEM  .     .     .     .     .     .
      11950.  C     .     .     .     . ILEM  .     .     .     .     .     .
      12000.  C     .     .     .     . I EM  .     .     .     .     .     .
      12050.  C     .     .     .     . IE.M  .     .     .     .     .     .
      12100.  C     .     .     .     . IE.M  .     .     .     .     .     .
      12150.  C     .     .     .     . IWEM  .     .     .     .     .     .
      12200.  C     .     .     .     . I EM  .     .     .     .     .     .
      12250.  C     .     .     .     . I EM  .     .     .     .     .     .
      12300.  C     .     .     .     . IELM  .     .     .     .     .     .
      12350.  C     .     .     .     . IELM  .     .     .     .     .     .
      12400.  C     .     .     .     . IWEM  .     .     .     .     .     .
      12450.  C     .     .     .     . I.EL  .     .     .     .     .     .
2.36  12500.  C     .     .     .     . IELM  .     .     .     .     .     .
      12550.  C     .     .     .     . IELM  .     .     .     .     .     .
      12600.  C     .     .     .     . IELM  .     .     .     .     .     .
      12650.  C     .     .     .     . IE L  .     .     .     .     .     .
      12700.  C     .     .     .     . I EL  .     .     .     .     .     .
      12750.  C     .     .     .     . I EL  .     .     .     .     .     .
      12800.  C     .     .     .     . .IELM .     .     .     .     .     .
      12850.  C     .     .     .     . .IELM .     .     .     .     .     .
      12900.  C     .     .     .     . .IELM .     .     .     .     .     .
      12950.  C     .     .     .     . .IWEL .     .     .     .     .     .
      13000.  C     .     .     .     . .I EL .     .     .     .     .     .
2.47  13050.  C     .     .     .     . . IELM .     .     .     .     .     .
      13100.  C     .     .     .     . . IELM .     .     .     .     .     .
      13150.  C     .     .     .     . . IELR .     .     .     .     .     .
      13200.  C     .     .     .     . . IWEL .     .     .     .     .     .
      13250.  C     .     .     .     . . I EL .     .     .     .     .     .
      13300.  C     .     .     .     . . I ELM .     .     .     .     .     .
      13350.  C     .     .     .     . . I ELR .     .     .     .     .     .
      13400.  C     .     .     .     . .  IELR .     .     .     .     .     .
      13450.  C     .     .     .     . .  IE L .     .     .     .     .     .
      13500.  C     .     .     .     . .  I EL .     .     .     .     .     .
2.56  13550.  C     .     .     .     . .  I ELR .     .     .     .     .     .
      13600.  C     .     .     .     . .  I ELR .     .     .     .     .     .
      13650.  C                                  IELR
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	13700.	C	.	.	.	.	.	IE L	.	.	.	.
	13750.	C	.	.	.	.	.	I EL	.	.	.	.
	13800.	C	.	.	.	.	.	IEL	.	.	.	.
	13850.	C	.	.	.	.	.	IELR	.	.	.	.
	13900.	C	.	.	.	.	.	IE L	.	.	.	.
2.64	13950.	C	.	.	.	.	.	IEL	.	.	.	.
	14000.	C	.	.	.	.	.	IEL	.	.	.	.
2.65	14050.	C	.	.	.	.	.	EL	.	.	.	.

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THIS RUN EXECUTED 05/03/88 15:47:39

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-K2 EAST

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
	.000	350.00	1434.48	4906.15	5150.64	.00	244.48	.00	1.48	1433.00	63.07	1.93
	.048	350.00	1437.07	4958.22	5034.73	2.59	76.51	255.00	2.07	1435.00	230.11	4.53
	.115	350.00	1439.73	4910.29	5027.88	2.72	117.49	350.00	2.75	1437.00	33.28	2.14
	.250	350.00	1443.05	4739.75	5038.64	3.26	298.89	715.00	2.05	1441.00	67.25	2.74
	.370	350.00	1445.51	4828.97	5161.64	2.47	332.67	635.00	1.81	1443.70	23.35	1.42
*	.528	350.00	1451.92	4474.63	5294.85	6.41	744.62	835.00	.92	1451.00	494.32	4.55
	.704	350.00	1459.39	4515.80	5485.04	7.47	969.23	930.00	1.39	1458.00	31.36	1.53
*	.902	350.00	1468.02	4896.86	5204.72	8.63	273.65	1040.00	1.02	1467.00	582.47	4.66
	1.072	350.00	1475.52	4981.20	5027.60	7.50	46.41	900.00	3.52	1472.00	31.25	3.23
	1.237	350.00	1480.33	4947.27	5021.63	4.80	74.35	870.00	2.33	1479.00	127.95	4.05
	1.315	350.00	1484.52	4976.54	5036.87	4.19	60.33	415.00	3.52	1481.00	82.36	4.28
	1.394	350.00	1487.73	4963.07	5027.70	3.21	64.63	415.00	3.23	1484.50	67.55	3.35
	1.408	350.00	1487.86	4980.05	5020.05	.13	40.00	75.00	2.86	1485.00	4.99	3.06
	1.417	350.00	1487.89	4980.05	5020.05	.03	40.00	45.00	2.89	1485.20	6.08	3.26
	1.428	350.00	1487.87	4990.51	5047.46	-.02	56.95	50.00	2.37	1485.50	243.92	5.18
	1.440	350.00	1488.28	4983.02	5026.41	.41	43.39	65.00	2.28	1486.00	17.92	4.56
	1.446	350.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
1.484	354.00	1489.33	4959.44	5034.95	.91	75.52	95.00	2.33	1487.00	83.02	4.04
1.498	354.00	1491.41	4957.83	5032.17	2.28	64.33	100.00	2.41	1489.00	184.17	4.56
1.595	354.00	1494.96	4945.60	5024.80	3.55	79.20	510.00	2.96	1492.00	32.75	2.64
1.627	354.00	1498.20	4955.88	5087.75	3.24	121.87	530.00	1.70	1496.50	162.34	3.42
1.786	354.00	1502.17	4931.51	5035.07	3.97	103.16	410.00	3.17	1499.00	48.53	2.73
1.903	354.00	1505.54	4911.07	5059.79	3.37	148.72	620.00	2.54	1503.00	59.36	2.33
2.020	354.00	1509.30	4963.66	5088.54	3.77	124.88	615.00	3.32	1506.00	63.00	2.54
2.124	354.00	1512.16	4955.13	5066.00	2.85	110.69	550.00	2.16	1510.00	43.34	2.53
2.246	354.00	1516.66	4945.62	5067.47	4.50	121.85	645.00	2.56	1514.00	145.75	5.03
2.360	354.00	1521.72	4949.53	5037.19	5.06	87.85	620.00	2.72	1519.00	50.31	2.74
2.467	323.00	1525.65	4982.27	5022.40	2.93	60.13	555.00	2.65	1523.00	112.50	3.90
2.558	323.00	1529.42	4982.68	5057.82	3.77	74.94	480.00	3.42	1526.00	54.81	2.87
2.636	323.00	1533.05	4996.47	5025.23	3.62	68.76	415.00	2.05	1531.00	172.52	4.20
2.661	323.00	1534.66	4944.05	5048.19	1.61	104.14	130.00	1.66	1533.00	77.32	2.87

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=     .528  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .528  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .528  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=     .902  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .902  PROFILE= 1  MINIMUM SPECIFIC ENERGY
```


THIS RUN EXECUTED 05/03/88 15:47:43

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*************************************************
HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
ERROR CORR -  01,02,03,04,05,06
MODIFICATION -  50,51,52,53,54,55,56
IBM-PC-XT VERSION 1.1
*************************************************
```

INPUT FILE: CAP3EAST

OUTPUT FILE: CAP3EAST.OUT

THIS RUN EXECUTED 05/03/88 15:47:56

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*****************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
*****************************************************
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```
T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR STORM EVENT.  3RD PIPE OVERCHUTE EAST OF GRAND AVE.
T3      CAP FLOODPLAIN-#3 EAST

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINQ    T        WSEL     FQ

      0.       0.       0.       0.   .007500     .00       .5      672.  1443.700     .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000     .000     .000     .000     .000     .000     .000     .000     .000   15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   52.000   54.000   51.000    4.000   39.000    8.000   42.000

     5.000   26.000     .000     .000     .000     .000     .000     .000     .000     .000

NC      .080     .080     .050     .100     .300     .000     .000     .000     .000     .000
X1      .000    7.000 4960.000 5125.000     .000     .000     .000     .000     .000     .000
GR   1444.000 4920.000 1443.000 4920.000 1443.500 4960.000 1442.000 5000.000 1443.500 5125.000
GR   1443.000 5200.000 1444.000 5350.000     .000     .000     .000     .000     .000     .000

X1      .114   13.000 4970.000 5020.000  620.000  570.000  620.000     .000     .000     .000
GR   1448.500 4715.000 1447.500 4870.000 1448.000 4970.000 1447.000 5000.000 1448.000 5020.000
GR   1447.000 5050.000 1447.000 5140.000 1448.000 5160.000 1447.000 5210.000 1448.000 5290.000
GR   1447.500 5350.000 1448.000 5415.000 1448.500 5460.000     .000     .000     .000     .000

X1      .218    3.000 4860.000 5030.000  540.000  550.000  550.000     .000     .000     .000
X2    332.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1453.000 4960.000 1452.000 5000.000 1453.000 5230.000     .000     .000     .000     .000

X1      .305    3.000 4860.000 5120.000  430.000  470.000  450.000     .000     .000     .000
GR   1456.500 4950.000 1455.000 5000.000 1456.500 5120.000     .000     .000     .000     .000

X1      .460    8.000 4930.000 5065.000  710.000  635.000  710.000     .000     .000     .000
GR   1462.000 4960.000 1460.000 4930.000 1461.000 4955.000 1460.000 4990.000 1460.000 5000.000
GR   1460.000 5010.000 1461.000 5065.000 1462.000 5100.000     .000     .000     .000     .000
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X1      .669      9.000   4985.000   5050.000   1050.000   1100.000   1100.000      .000      .000      .000
GR   1470.500   4900.000   1469.000   4985.000   1468.000   4990.000   1467.000   5000.000   1460.000   5020.000
GR   1469.000   5035.000   1468.000   5050.000   1469.000   5075.000   1470.500   5200.000      .000      .000

X1      .871      7.000   4965.000   5030.000   1070.000   1070.000   1070.000      .000      .000      .000
GR   1478.000   4855.000   1477.000   4965.000   1476.000   4990.000   1475.000   5000.000   1476.000   5010.000
GR   1477.000   5030.000   1478.000   5125.000      .000      .000      .000      .000      .000      .000

X1     1.026      5.000   4845.000   5285.000    830.000    795.000    815.000      .000      .000      .000
GR   1485.000   4685.000   1484.000   4845.000   1482.000   5000.000   1484.000   5285.000   1487.000   5220.000

X1     1.202      6.000   4820.000   5070.000    930.000    905.000    930.000      .000      .000      .000
GR   1493.000   4605.000   1492.000   4820.000   1490.000   4930.000   1490.000   5000.000   1492.000   5070.000
GR   1493.000   5300.000      .000      .000      .000      .000      .000      .000      .000      .000

NC      .080      .080      .080      .000      .000      .000      .000      .000      .000      .000
X1     1.349     10.000   4580.000   5040.000    785.000    825.000    775.000      .000      .000      .000
GR   1499.000   4580.000   1496.000   4720.000   1496.000   4750.000   1493.000   4800.000   1496.000   4850.000
GR   1493.000   4910.000   1499.000   4970.000   1497.000   5000.000   1499.000   5040.000   1500.000   5375.000

NC      .080      .080      .050      .000      .000      .000      .000      .000      .000      .000
X1     1.576      8.000   4970.000   5020.000   1105.000   1140.000   1210.000      .000      .000      .000
GR   1509.000   4850.000   1508.000   4970.000   1507.000   5000.000   1508.000   5020.000   1508.000   5055.000
GR   1507.000   5070.000   1508.000   5090.000   1509.000   5200.000      .000      .000      .000      .000

X1     1.713      5.000   4910.000   5150.000    730.000    725.000    725.000      .000      .000      .000
GR   1516.000   4910.000   1512.000   4965.000   1512.000   5000.000   1512.000   5015.000   1516.000   5150.000

X1     1.843      5.000   4980.000   5015.000    685.000    685.000    645.000      .000      .000      .000
GR   1522.000   4875.000   1520.000   4980.000   1518.000   5000.000   1520.000   5015.000   1522.000   5260.000

X1     2.004      7.000   4935.000   5030.000    880.000    835.000    850.000      .000      .000      .000
GR   1527.000   4860.000   1526.000   4935.000   1524.000   4985.000   1524.000   5000.000   1524.000   5010.000
GR   1528.000   5080.000   1529.000   5025.000      .000      .000      .000      .000      .000      .000

X1     2.134      5.000   4970.000   5030.000    700.000    665.000    665.000      .000      .000      .000
GR   1533.000   4910.000   1532.000   4970.000   1529.500   5000.000   1532.000   5030.000   1533.000   5070.000

X1     2.228      5.000   4940.000   5015.000    460.000    520.000    500.000      .000      .000      .000
GR   1539.000   4880.000   1536.000   4940.000   1534.000   5000.000   1536.000   5015.000   1539.000   5050.000
EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
 05/03/88    15:47:56                                                                                    PAGE    3


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    SG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XMR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     1.79  1443.79      .00  1443.70  1443.86      .00      .00      .00  1443.50
     670.     128.     449.      82.     141.     171.      86.       0.       0.  1443.50
      .00      .98     2.63      .95     .080     .050     .080     .000  1442.00  4658.67
  .007481       0.       0.       0.        0        0        5      .00   659.10  5317.77
0
 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1443.79

 STA=    4659.    4800.    4960.    5125.    5200.    5318.
 DEPTH=     7.1      17.5     67.0      6.3      5.9
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    AREA=     55.5     85.6    170.8     40.1     46.2
     VEL=       .9      1.1      2.6      1.1       .9

 *SECNO  .114
       .11     1.29  1448.29      .00      .00  1448.33      .04     4.46      .00  1448.00
      670.      98.      86.     486.     100.      29.     326.       6.       9.  1448.00
       .11      .97     2.20     1.49     .080     .050     .080     .000  1447.00  4748.87
   .007623     620.     600.     570.        4        0        0      .00   691.47  5440.33
0
 FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1448.29

 STA=    4749.    4870.    4970.    5020.    5050.    5140.    5160.    5210.    5290.    5350.    5418.    5440.
   PER Q=     6.1      8.4     12.8      4.8     32.9      3.2      8.0     12.8      5.1      5.5       .2
    AREA=    47.3     53.1     39.1     23.4    115.3     15.6     39.1     62.5     31.9     34.5      3.6
     VEL=      .9      1.1      2.2      1.4      1.9      1.4      1.4      1.4      1.1      1.1       .4

 *SECNO  .218
       .22      .97  1452.97      .00      .00  1453.02      .06     4.69      .01  1453.00
      330.       0.     330.       0.       0.     172.       0.      10.      16.  1453.00
       .19      .00     1.92      .00     .080     .050     .080     .000  1452.00  4864.90
   .010980     540.     550.     550.        3        0        0      .00   357.04  5221.94
0
 FLOW DISTRIBUTION FOR SECNO=       .22          CWSEL=   1452.97

 STA=    4865.    5230.
   PER Q=   100.0
    AREA=   172.3
     VEL=     1.9

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  05/03/88    15:47:56                                                                                    PAGE    4

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       CLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

 *SECNO  .305
       .31     1.46  1456.46      .00      .00  1456.51      .05     3.49      .00  1456.50
      330.       0.     330.       0.       0.     184.       0.      12.      19.  1456.50
       .26      .00     1.79      .00     .080     .050     .080     .000  1455.00  4863.94
   .005542     430.     460.     470.        3        0        0      .00   252.68  5116.62
0
 FLOW DISTRIBUTION FOR SECNO=       .31          CWSEL=   1456.46

 STA=    4864.    5120.
   PER Q=   100.0
    AREA=   184.2
     VEL=     1.8

 *SECNO  .460
       .46     1.28  1461.28      .00      .00  1461.37      .09     4.85      .01  1460.00
      330.       37.     292.       1.       29.     116.       1.      14.      23.  1461.00
       .34     1.30     2.53      .47     .080     .050     .080     .000  1460.00  4885.14
   .008903     710.     700.     695.        5        0        0      .00   189.71  5074.85

 FLOW DISTRIBUTION FOR SECNO=       .46          CWSEL=   1461.28

 STA=    4885.    4930.    5065.    5075.
   PER Q=    11.3     88.5      .2
    AREA=    28.7    115.5     1.4
     VEL=     1.3      2.5      .5

 *SECNO  .669
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      .67     2.48  1469.48      .00      .00  1469.51      .13     8.22      .01  1469.00
     330.       4.     284.      42.       7.      94.      34.      18.      27.   1468.00
      .45      .59     3.03     1.21     .080     .020     .080     .000  1467.00  4957.54
   .006372    1030.    1100.    1100.        3        0        0      .00   157.83  5115.30
0
 FLOW DISTRIBUTION FOR SECNO=       .67          CWSEL=   1469.48

 STA=    4958.    4985.    5050.    5073.    5115.
   PER Q=      1.2     86.2     10.9      1.7
    AREA=      6.7     94.0     24.6      9.8
     VEL=       .6      3.0      1.5       .6

1
 05/03/88    15:47:56                                                                    PAGE    5


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .871
      .87     2.55  1477.55      .00      .00  1477.72      .18     8.10      .01  1477.00
     330.      12.     307.      11.      17.      88.      14.      21.      31.   1477.00
      .54      .75     3.48      .75     .080     .050     .080     .000  1475.00  4904.60
   .009150    1070.    1070.    1070.        4        0        0      .00   177.56  5082.16
0
 FLOW DISTRIBUTION FOR SECNO=       .87          CWSEL=   1477.55

 STA=    4905.    4965.    5030.    5082.
   PER Q=      3.4     93.0      3.3
    AREA=     16.6     88.2     14.3
     VEL=       .8      3.5       .8

 *SECNO 1.026
     1.03     1.64  1483.64      .00      .00  1483.70      .06     5.97      .01  1484.00
     330.       0.     330.       0.       0.     163.       0.      24.      35.   1484.00
      .65      .00     2.02      .00     .080     .050     .080     .000  1482.00  4872.22
   .005996     830.     815.     795.        5        0        0      .00   197.86  5070.07
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1483.64

 STA=    4872.    5085.
   PER Q=    100.0
    AREA=    163.1
     VEL=      2.0

 *SECNO 1.202
     1.20     1.07  1491.07      .00      .00  1491.18      .11     7.46      .01  1492.00
     330.       0.     330.       0.       0.     126.       0.      27.      38.   1492.00
      .75      .00     2.62      .00     .080     .050     .080     .000  1490.00  4871.37
   .011289     930.     930.     905.        4        0        0      .00   165.93  5037.31
0
 FLOW DISTRIBUTION FOR SECNO=      1.20          CWSEL=   1491.07

 STA=    4871.    5070.
   PER Q=    100.0
    AREA=    125.7
     VEL=      2.6

1
 05/03/88    15:47:56                                                                    PAGE    6
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   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 1.349

 3265 DIVIDED FLOW

     1.35     1.72  1497.72      .00      .00  1497.75      .03     6.56      .01  1499.00
     330.      0.     330.       0.       0.     233.       0.      30.      42.   1499.00
      .90      .00     1.42      .00     .080     .080     .080     .000  1496.00  4639.77
   .006586    725.     775.     825.        4        0        0      .00   256.73  5014.38
0
 FLOW DISTRIBUTION FOR SECNO=      1.35          CWSEL=   1497.72

 STA=    4640.    5040.
   PER Q=    100.0
   AREA=    233.0
    VEL=      1.4

 *SECNO 1.576
     1.58     1.55  1508.55      .00      .00  1508.68      .13    10.90      .03  1508.00
     330.      17.     188.     125.      18.      52.      72.      35.      49.   1508.00
     1.02      .92     3.59     1.73     .080     .050     .080     .000  1507.00  4904.20
   .013702   1105.    1200.    1140.        5        0        0      .00   246.12  5150.32
0
 FLOW DISTRIBUTION FOR SECNO=      1.58          CWSEL=   1508.55

 STA=    4904.    4970.    5020.    5055.    5070.    5090.    5150.
   PER Q=      5.0     57.0      8.5     10.7     14.2      4.6
   AREA=     18.8     52.4     19.2     15.7     21.0     16.5
    VEL=       .9      3.6      1.5      2.2      2.2       .9

 *SECNO 1.713
     1.71     1.88  1513.88      .00      .00  1513.96      .08     5.27      .01  1516.00
     330.      0.     330.       0.       0.     150.       0.      38.      52.   1516.00
     1.12      .00     2.20      .00     .080     .050     .080     .000  1512.00  4949.65
   .004500    730.     725.     725.        5        0        0      .00   123.97  5078.62
0
 FLOW DISTRIBUTION FOR SECNO=      1.71          CWSEL=   1513.88

 STA=    4950.    5150.
   PER Q=    100.0
   AREA=    149.8
    VEL=      2.2

1
 05/03/88    15:47:56                                                                  PAGE    7


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XAL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 SECNO 1.843

 1645 INT SEC ADDED BY RAISING SEC      1.84,  -3.000FT AND MULTIPLYING BY   2.910

     1.01     1.75  1516.75      .00      .00  1517.03      .28     3.01      .06  1517.00
     330.      0.     330.       0.       0.      78.       0.      38.      53.   1517.00
     1.14      .00     4.23      .00     .080     .050     .080     .000  1515.00  5187.82
   .024157    343.     343.     343.        2        0        0      .00    83.19  5277.01
0
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```
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1515.75

 STA=    5188.    5202.
   PER Q=    100.0
    AREA=     78.1
     VEL=      4.2


 1645 INT SEC ADDED BY RAISING SEC      1.01,   3.000FT AND MULTIPLYING BY    .344

      1.84     2.93  1520.93      .00      .00  1521.12      .18     4.08      .01  1520.00
      330.      21.     260.      49.      23.      67.      53.      39.      54.   1520.00
      1.17      .94     3.85      .94     .080     .050     .080     .000  1518.00  4931.36
   .007071     343.     343.     343.        4        0        0      .00   197.14  5128.50
0
 FLOW DISTRIBUTION FOR SECNO=      1.84          CWSEL=   1520.93

 STA=    4931.    4980.    5015.    5128.
   PER Q=      6.4     78.7     14.9
    AREA=     22.5     67.4     52.6
     VEL=       .9      3.9       .9

 *SECNO 2.004
      2.00     2.02  1526.02      .00      .00  1526.11      .09     4.99      .01  1526.00
      330.       0.     330.       0.       0.     137.       0.      42.      57.   1528.00
      1.27      .01     2.41      .00     .080     .050     .080     .000  1524.00  4933.70
   .004937     880.     850.     835.        5        0        0      .00   111.60  5045.30
0
 FLOW DISTRIBUTION FOR SECNO=      2.00          CWSEL=   1526.02

 STA=    4934.    5080.
   PER Q=    100.0
    AREA=    136.9
     VEL=      2.4

1
 05/03/88    15:47:56                                                                    PAGE    8


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    INTRIPL  IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 2.134
      2.13     2.40  1531.90      .00      .00  1532.25      .35     6.07      .00  1532.00
      330.       0.     330.       0.       0.      69.       0.      44.      58.   1532.00
      1.31      .00     4.77      .00     .080     .050     .080     .000  1529.50  4971.19
   .020307     700.     685.     665.        3        0        0      .00    57.61  5028.81
0
 FLOW DISTRIBUTION FOR SECNO=      2.13          CWSEL=   1531.90

 STA=    4971.    5030.
   PER Q=    100.0
    AREA=     69.1
     VEL=      4.8

 SECNO 2.228
      2.23     2.55  1536.55      .00      .00  1536.67      .12     4.40      .02  1536.00
      330.       2.     327.       2.       3.     117.       3.      45.      59.   1536.00
      1.36      .56     2.79      .56     .080     .050     .080     .000  1534.00  4928.78
   .004883     460.     500.     520.        4        0        0      .00    95.04  5024.82
0
 FLOW DISTRIBUTION FOR SECNO=      2.23          CWSEL=   1536.55
```

STA=	4929.	4940.	5015.	5025.
PER Q=	.5	99.0	.5	
AREA=	3.1	117.1	2.8	
VEL=	.6	2.8	.6	

NOFILE FOR STREAM CAP FLOODPLAIN-#3 EAST

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

```
ELEVATION  1440.    1450.    1460.    1470.    1480.    1490.    1500.    1510.    1520.    1530.
   SECND   CUMDIS

     .00      0.  C I E     .        .        .        .        .        .        .        .        .
            100.  C ILE     .        .        .        .        .        .        .        .        .
            200.  C  IEM    .        .        .        .        .        .        .        .        .
            300.  C   IE    .        .        .        .        .        .        .        .        .
            400.  C   I E   .        .        .        .        .        .        .        .        .
            500.  C    ILE  .        .        .        .        .        .        .        .        .
     .11    600.  C     IEM.        .        .        .        .        .        .        .        .
            700.  C      IE.        .        .        .        .        .        .        .        .
            800.  C       IE        .        .        .        .        .        .        .        .
            900.  C        IE       .        .        .        .        .        .        .        .
           1000.  C        .IE      .        .        .        .        .        .        .        .
           1100.  C        . IE     .        .        .        .        .        .        .        .
     .22   1200.  C        . IE     .        .        .        .        .        .        .        .
           1300.  C        .  IE    .        .        .        .        .        .        .        .
           1400.  C        .  IWE   .        .        .        .        .        .        .        .
           1500.  C        .   IE   .        .        .        .        .        .        .        .
           1600.  C        .    IE  .        .        .        .        .        .        .        .
     .31   1700.  C        .    IWE .        .        .        .        .        .        .        .
           1800.  C        .     IE .        .        .        .        .        .        .        .
           1900.  C        .     I E.        .        .        .        .        .        .        .
           2000.  C        .      ILE.       .        .        .        .        .        .        .
           2100.  C        .       IEM       .        .        .        .        .        .        .
           2200.  C        .        IE       .        .        .        .        .        .        .
           2300.  C        .        ILE      .        .        .        .        .        .        .
     .46   2400.  C        .         IEM     .        .        .        .        .        .        .
           2500.  C        .         .IEM    .        .        .        .        .        .        .
           2600.  C        .         .ILEM   .        .        .        .        .        .        .
           2700.  C        .         . IRE   .        .        .        .        .        .        .
           2800.  C        .         .  IEM  .        .        .        .        .        .        .
           2900.  C        .         .  ILEM .        .        .        .        .        .        .
           3000.  C        .         .   ILEM.        .        .        .        .        .        .
           3100.  C        .         .   IRWE.        .        .        .        .        .        .
           3200.  C        .         .    IREM        .        .        .        .        .        .
           3300.  C        .         .     ILEM.      .        .        .        .        .        .
           3400.  C        .         .     IRLEM      .        .        .        .        .        .
     .67   3500.  C        .         .      IRWEM     .        .        .        .        .        .
           3600.  C        .         .       IREM     .        .        .        .        .        .
           3700.  C        .         .       I LEM    .        .        .        .        .        .
           3800.  C        .         .        I.LEM   .        .        .        .        .        .
           3900.  C        .         .         IRWE   .        .        .        .        .        .
           4000.  C        .         .         .IREM  .        .        .        .        .        .
           4100.  C        .         .         .I LEM .        .        .        .        .        .
           4200.  C        .         .         . I LE .        .        .        .        .        .
           4300.  C        .         .         .  I LE.        .        .        .        .        .
           4400.  C        .         .         .   I EM        .        .        .        .        .
     .87   4500.  C        .         .         .    I LE       .        .        .        .        .
           4600.  C        .         .         .     I EM.     .        .        .        .        .
           4700.  C        .         .         .      I EM     .        .        .        .        .
           4800.  C        .         .         .       I EM    .        .        .        .        .
           4900.  C                                     I LE
```

```
      5000. C .  .  .  I.EM .  .  .  .  .  .
      5100. C .  .  .  I EM .  .  .  .  .  .
      5200. C .  .  .  .I EM .  .  .  .  .  .
1.03  5300. C .  .  .  . I EM .  .  .  .  .  .
      5400. C .  .  .  .  IWEM .  .  .  .  .  .
      5500. C .  .  .  .  IELM .  .  .  .  .  .
      5600. C .  .  .  .  IELM .  .  .  .  .  .
      5700. C .  .  .  .  I EM .  .  .  .  .  .
      5800. C .  .  .  .  I EM. .  .  .  .  .  .
      5900. C .  .  .  .  IWEM .  .  .  .  .  .
      6000. C .  .  .  .  IELM .  .  .  .  .  .
      6100. C .  .  .  .  IELM .  .  .  .  .  .
      6200. C .  .  .  .  IELM .  .  .  .  .  .
1.20  6300. C .  .  .  .  IELM .  .  .  .  .  .
      6400. C .  .  .  .  .IELM .  .  .  .  .  .
      6500. C .  .  .  .  . IELM .  .  .  .  .  .
      6600. C .  .  .  .  . I EL .  .  .  .  .  .
      6700. C .  .  .  .  . I EL .  .  .  .  .  .
      6800. C .  .  .  .  . IE L .  .  .  .  .  .
      6900. C .  .  .  .  . IELM .  .  .  .  .  .
1.35  7000. C .  .  .  .  . I E. .  .  .  .  .  .
      7100. C .  .  .  .  . I EL .  .  .  .  .  .
      7200. C .  .  .  .  . I EL .  .  .  .  .  .
      7300. C .  .  .  .  . IELM .  .  .  .  .  .
      7400. C .  .  .  .  . IEL .  .  .  .  .  .
      7500. C .  .  .  .  . .IEL .  .  .  .  .  .
      7600. C .  .  .  .  . . IEL .  .  .  .  .  .
      7700. C .  .  .  .  . . I EM .  .  .  .  .  .
      7800. C .  .  .  .  . . I EM .  .  .  .  .  .
      7900. C .  .  .  .  . . I EM .  .  .  .  .  .
      8000. C .  .  .  .  . . I E .  .  .  .  .  .
      8100. C .  .  .  .  . . ILE .  .  .  .  .  .
1.58  8200. C .  .  .  .  . . ILE. .  .  .  .  .
      8300. C .  .  .  .  . . IEM .  .  .  .  .  .
      8400. C .  .  .  .  . . I EM .  .  .  .  .  .
      8500. C .  .  .  .  . . I.EM .  .  .  .  .  .
      8600. C .  .  .  .  . . IWEM .  .  .  .  .  .
      8700. C .  .  .  .  . . I E L .  .  .  .  .  .
      8800. C .  .  .  .  . . .I E L .  .  .  .  .  .
      8900. C .  .  .  .  . . . I E L .  .  .  .  .  .
1.71  9000. C .  .  .  .  . . . I E L .  .  .  .  .  .
      9100. C .  .  .  .  . . . I ELM .  .  .  .  .  .
      9200. C .  .  .  .  . . . I ELM .  .  .  .  .  .
1.01  9300. C .  .  .  .  . . . I E M. .  .  .  .  .  .
      9400. C .  .  .  .  . . . I E M .  .  .  .  .  .
      9500. C .  .  .  .  . . . I E.M .  .  .  .  .  .
      9600. C .  .  .  .  . . . I WEM .  .  .  .  .  .
1.84  9700. C .  .  .  .  . . . I LEM .  .  .  .  .  .
      9800. C .  .  .  .  . . . I.LEM .  .  .  .  .  .
      9900. C .  .  .  .  . . . I.LEM .  .  .  .  .  .
     10000. C .  .  .  .  . . . I LEM .  .  .  .  .  .
     10100. C .  .  .  .  . . . .I ER .  .  .  .  .  .
     10200. C .  .  .  .  . . . . I ER .  .  .  .  .  .
     10300. C .  .  .  .  . . . . I LER .  .  .  .  .  .
     10400. C .  .  .  .  . . . . I EMR .  .  .  .  .  .
2.00 10500. C .  .  .  .  . . . . I EMR .  .  .  .  .  .
     10600. C .  .  .  .  . . . . I EMR. .  .  .  .  .  .
     10700. C .  .  .  .  . . . . I ER. .  .  .  .  .  .
     10800. C .  .  .  .  . . . . I  ER .  .  .  .  .  .
     10900. C .  .  .  .  . . . . I WEM .  .  .  .  .  .
     11000. C .  .  .  .  . . . . I WE .  .  .  .  .  .
     11100. C .  .  .  .  . . . . I.ER .  .  .  .  .  .
2.13 11200. C .  .  .  .  . . . . I EM .  .  .  .  .  .
     11300. C .  .  .  .  . . . . I  EM .  .  .  .  .  .
     11400. C .  .  .  .  . . . . .I  EM .  .  .  .  .  .
     11500. C                                  .I LEM
```

```
        11600.  C        .         .         .         .         .         .         .         .  I LEM .
    2.23 11700.  C        .         .         .         .         .         .         .         .  I LEM .
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THIS RUN EXECUTED 05/03/88 15:48:31

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
*************************************************
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#3 EAST

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
	.000	670.00	1443.79	4658.67	5317.77	.00	659.10	.00	1.79	1442.00	74.81	2.63
	.114	670.00	1448.29	4748.87	5440.33	4.51	691.47	600.00	1.29	1447.00	76.23	2.20
	.218	330.00	1452.97	4864.90	5221.94	4.67	357.04	550.00	.97	1452.00	109.90	1.92
	.305	330.00	1456.46	4863.94	5116.62	3.49	252.68	450.00	1.46	1455.00	55.42	1.79
	.460	330.00	1461.28	4885.14	5074.86	4.82	189.71	700.00	1.28	1460.00	89.03	2.53
	.669	330.00	1469.48	4957.54	5115.30	8.20	157.83	1100.00	2.48	1467.00	63.72	3.03
	.871	330.00	1477.55	4904.60	5082.16	8.07	177.56	1070.00	2.55	1475.00	91.50	3.48
	1.026	330.00	1483.64	4872.22	5070.07	6.09	197.86	815.00	1.64	1482.00	59.95	2.02
	1.202	330.00	1491.07	4871.37	5037.3[illegible]	7.43	165.93	930.00	1.07	1490.00	112.99	2.62
	1.349	330.00	1497.72	4839.77	5014.30	6.65	255.73	775.00	1.72	1496.00	65.86	1.42
	1.576	330.00	1508.55	4904.20	5150.32	10.83	246.12	1200.00	1.55	1507.00	137.02	3.59
	1.713	330.00	1513.88	4949.65	5078.62	5.34	128.97	725.00	1.85	1512.00	45.00	2.23
*	1.843	330.00	1520.93	4931.36	5128.50	4.18	197.14	685.00	2.93	1518.00	70.71	3.85
	2.004	330.00	1526.02	4933.70	5045.30	5.08	111.60	850.00	2.02	1524.00	49.37	2.41
	2.134	330.00	1531.90	4971.19	5028.8[illegible]	5.88	57.61	685.00	2.40	1529.50	203.07	4.77
	2.228	330.00	1536.55	4928.74	5024.82	4.65	96.04	500.00	2.55	1534.00	48.83	2.79

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 1.843 PROFILE= 1 INTERPOLATED XSECTIONS USED

1

05/03/88 15:48:33 PAGE 1

THIS RUN EXECUTED 05/03/88 15:48:33

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
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INPUT FILE: CAP4EAST

OUTPUT FILE: CAP4EAST.OUT

THIS RUN EXECUTED 05/03/88 15:48:45

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
  ERROR CORR - 01,02,03,04,05,06
  MODIFICATION - 50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
*************************************************


T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR STORM EVENT.  4TH PIPE OVERCHUTE EAST OF GRAND AVE.
T3      CAP FLOODPLAIN-#4 EAST

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .006850     .00       .5     1757.  1348.000     .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH     FN      ALLDC    IBW      CHNIM    ITRACE

    -1.000    .000     .000     .000     .000     .000     .000     .000     .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   53.000   54.000   51.000    4.000   39.000    8.000   42.000


     5.000   26.000    .000     .000     .000     .000     .000     .000     .000     .000


NC      .040     .040     .040     .100     .300     .000     .000     .000     .000     .000
X1      .000   10.000 4960.000 5730.000     .000     .000     .000     .000     .000     .000
GR  1360.000 4935.000 1352.000 4960.000 1341.000 5000.000 1344.000 5030.000 1345.000 5190.000
GR  1344.000 5285.000 1344.000 5440.000 1348.000 5730.000 1350.000 6410.000 1352.000 7000.000

X1      .099   13.000 4955.000 5030.000  525.000  525.000  525.000     .000     .000     .000
GR  1360.000 4930.000 1352.000 4955.000 1348.000 4985.000 1344.000 5000.000 1348.000 5030.000
GR  1349.000 5180.000 1348.000 5295.000 1346.000 5385.000 1348.000 5455.000 1350.000 5915.000
GR  1350.500 6270.000 1352.000 6990.000 1360.000 6940.000     .000     .000     .000     .000

X1      .235    7.000 4920.000 5710.000  715.000  715.000  715.000     .000     .000     .000
GR  1353.500 4885.000 1352.000 4920.000 1349.500 5000.000 1350.000 5710.000 1351.000 6550.000
GR  1352.000 6865.000 1360.000 6910.000     .000     .000     .000     .000     .000     .000

X1      .415    7.000 4700.000 6030.000  950.000  950.000  950.000     .000     .000     .000
GR  1353.500 4600.000 1352.000 4700.000 1351.000 4800.000 1350.000 5000.000 1350.500 6030.000
GR  1352.000 6450.000 1360.000 6490.000     .000     .000     .000     .000     .000     .000

X1      .561    6.000 4540.000 5570.000  770.000  770.000  770.000     .000     .000     .000
GR  1353.500 4460.000 1352.000 4540.000 1351.500 4610.000 1351.500 5000.000 1352.000 5570.000
GR  1360.000 5610.000     .000     .000     .000     .000     .000     .000     .000     .000
```

NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	.652	9.000	4965.000	5045.000	510.000	440.000	440.000	.000	.000	.000
GR	1361.500	4760.000	1360.000	4850.000	1356.000	4965.000	1352.000	4980.000	1352.000	5000.000
GR	1352.000	5010.000	1356.000	5045.000	1360.000	5110.000	1364.000	5180.000	.000	.000
X1	.705	7.000	4980.000	5020.000	25.000	285.000	285.000	.000	.000	.000
GR	1361.500	4860.000	1360.000	4920.000	1356.000	4980.000	1352.000	5000.000	1356.000	5020.000
GR	1360.000	5320.000	1364.000	5410.000	.000	.000	.000	.000	.000	.000
X1	.707	7.000	4980.000	5020.000	10.000	10.000	10.000	.000	.000	.000
GR	1361.500	4860.000	1360.000	4920.000	1356.000	4980.000	1356.000	5000.000	1356.000	5020.000
GR	1360.000	5320.000	1364.000	5410.000	.000	.000	.000	.000	.000	.000
NC	.080	.080	.070	.300	.500	.000	.000	.000	.000	.000
X1	.763	7.000	4700.000	5640.000	400.000	295.000	215.000	.000	.000	.000
GR	1365.000	4545.000	1364.000	4555.000	1360.000	4700.000	1358.500	5000.000	1360.000	5410.000
GR	1360.000	5640.000	1364.000	5835.000	.000	.000	.000	.000	.000	.000
NC	.025	.025	.025	.000	.000	.000	.000	.000	.000	.000
X1	.801	12.000	4956.000	5044.000	220.000	160.000	220.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1363.100	1363.100	.000
GR	1365.000	3925.000	1360.400	4375.000	1360.200	4550.000	1360.200	4725.000	1360.200	4956.000
GR	1359.000	4957.000	1359.000	5000.000	1359.000	5043.000	1360.800	5044.000	1361.000	5275.000
GR	1361.500	5400.000	1364.000	5600.000	.000	.000	.000	.000	.000	.000

Deer Valley

SB	1.250	1.600	2.600	.000	86.000	6.000	320.000	.000	1359.400	1359.000
X1	.818	13.000	4956.000	5044.000	90.000	90.000	90.000	.000	.000	.000
X2	.000	.000	1.000	1363.400	1363.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1363.500	1363.500	.000
[illegible]	7.000	3925.000	1366.900	.000	4375.000	1364.200	.000	4550.000	1363.500	.000
BT	4725.000	1363.900	.000	5000.000	1364.900	.000	5400.000	1364.200	.000	5600.000
BT	1364.400	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1365.000	3925.000	1360.400	4375.000	1360.200	4550.000	1360.200	4725.100	1360.200	4956.000
GR	1359.400	4957.000	1359.400	5000.000	1359.400	5043.000	1360.800	5044.000	1361.000	5275.000
GR	1361.500	5400.000	1364.000	5600.000	1365.000	5650.000	.000	.000	.000	.000
NC	.070	.070	.070	.100	.300	.000	.000	.000	.000	.000
X1	.886	7.000	4640.000	5240.000	360.000	360.000	360.000	.000	.000	.000
GR	1368.000	3925.000	1364.000	4375.000	1362.000	4640.000	1361.000	5000.000	1361.500	5240.000
GR	1364.000	5360.000	1366.000	5500.000	.000	.000	.000	.000	.000	.000
NC	.070	.070	.050	.000	.200	.000	.000	.000	.000	.000
X1	1.022	10.000	4970.000	5030.000	820.000	635.000	715.000	.000	.000	.000
GR	1370.000	4340.000	1368.000	4590.000	1366.000	4970.000	1364.500	5000.000	1366.000	5030.000
GR	1368.000	5220.000	1369.000	5265.000	1368.000	5300.000	1366.000	5420.000	1368.000	5590.000
X1	1.189	6.000	4840.000	5270.000	850.000	890.000	900.000	.000	.000	.000
GR	1373.000	4730.000	1372.000	4840.000	1369.500	5000.000	1371.000	5080.000	1372.000	5270.000
GR	1375.000	5370.000	.000	.000	.000	.000	.000	.000	.000	.000

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Pinnacle Peak Rd. Alinement

X1	1.352	5.000	4840.000	5260.000	850.000	900.000	900.000	.000	.000	.000
[illegible]	1139.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1380.000	4260.000	1376.000	4840.000	1374.500	5000.000	1376.000	5115.000	1380.000	5260.000
X1	1.502	5.000	4935.000	5100.000	790.000	885.000	790.000	.000	.000	.000
GR	1384.000	4130.000	1380.000	4935.000	1379.000	5000.000	1380.000	5100.000	1384.000	5285.000
X1	1.725	10.000	4670.000	5065.000	1040.000	1310.000	1190.000	.000	.000	.000
GR	1392.000	4625.000	1390.000	4670.000	1387.500	4765.000	1392.000	4870.000	1390.000	4900.000

GR	1397.000	5200.000	1398.000	5030.000	1399.000	5065.000	1398.000	5440.000	1398.000	5720.000
X1	1.956	10.000	4940.000	5110.000	1230.000	1180.000	1220.000	.000	.000	.000
X2	962.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1400.000	4560.000	1397.000	4770.000	1397.000	4940.000	1396.000	4970.000	1395.500	5000.000
GR	1396.000	5320.000	1396.000	5050.000	1396.000	5090.000	1397.000	5110.000	1400.000	5175.000
X1	2.102	9.000	4850.000	5140.000	855.000	660.000	770.000	.000	.000	.000
GR	1405.000	4460.000	1404.000	4620.000	1402.000	4850.000	1400.000	4980.000	1400.000	5000.000
GR	1400.000	5010.000	1402.000	5140.000	1404.000	5465.000	1406.000	5520.000	.000	.000
X1	2.320	7.000	4960.000	5050.000	1150.000	1140.000	1150.000	.000	.000	.000
X2	873.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1412.000	4735.000	1410.000	4960.000	1409.000	5000.000	1410.000	5060.000	1411.000	5250.000
GR	1412.000	5520.000	1414.000	5600.000	.000	.000	.000	.000	.000	.000
X1	2.442	7.000	4955.000	5020.000	625.000	645.000	645.000	.000	.000	.000
GR	1417.000	4680.000	1416.000	4700.000	1415.000	4810.000	1415.000	4955.000	1413.000	5000.000
GR	1416.000	5020.000	1417.000	5065.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	2.477	9.000	4965.000	5060.000	185.000	185.000	195.000	.000	.000	.000
GR	1418.000	4740.000	1416.000	4770.000	1415.000	4850.000	1416.000	4950.000	1417.000	4965.000
GR	1416.000	4980.000	1414.000	5000.000	1416.000	5015.000	1418.000	5060.000	.000	.000
NC	.020	.020	.020	.000	.000	.000	.000	.000	.000	.000
X1	2.512	5.000	4985.000	5015.100	185.000	185.000	185.000	.000	.000	.000
X2	784.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1419.500	1419.500	.000
GR	1419.500	4985.000	1414.500	4985.100	1414.500	5000.000	1414.500	5015.000	1419.500	5015.100
GR	1.250	1.600	2.600	.000	33.000	3.000	90.000	.000	1414.700	1414.500
[illegible]	2.521	5.000	4985.000	5015.100	45.000	45.000	45.000	.000	.000	.000
X2	.000	.000	1.000	1417.700	1419.500	.000	.000	1.330	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1419.500	1419.500	.000
BT	2.000	4985.000	1419.500	1417.500	5015.100	1419.500	1417.500	.000	.000	.000
GR	1419.500	4985.000	1414.700	4985.100	1414.700	5000.000	1414.700	5015.000	1419.500	5015.100
NC	.030	.030	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.553	12.000	4960.000	5025.000	170.000	170.000	170.000	.000	.000	.000
GR	1421.000	4865.000	1420.000	4890.000	1419.000	4915.000	1420.000	4950.000	1421.000	4960.000
GR	1416.000	4990.000	1415.500	5000.000	1416.000	5010.000	1420.000	5025.000	1418.000	5135.000
GR	1420.000	5300.000	1421.000	5340.000	.000	.000	.000	.000	.000	.000

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NC	.020	.020	.020	.000	.000	.000	.000	.000	.000	.000
X1	2.587	5.000	4985.000	5015.100	110.000	210.000	180.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1423.200	1423.200	.000
GR	1423.000	4985.000	1416.000	4985.100	1416.000	5000.000	1416.000	5015.000	1423.000	5015.100
GR	1.250	1.600	2.600	.000	33.000	3.000	150.000	.000	1416.200	1416.000
X1	2.598	5.000	4985.000	5015.100	55.000	55.000	55.000	.000	.000	.000
X2	.000	.000	1.000	1422.200	1423.200	.000	.000	1.330	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1423.200	1423.200	.000
[illegible]	2.000	4985.000	1423.200	1422.200	5015.100	1423.200	1422.200	.000	.000	.000
[illegible]	1423.200	4985.000	1416.200	4985.100	1416.200	5000.000	1416.200	5015.000	1423.200	5015.100
NC	.030	.030	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.610	5.000	4965.000	5070.000	65.000	65.000	65.000	.000	.000	.000
GR	1423.200	4965.000	1420.000	4980.000	1417.000	5000.000	1420.000	5035.000	1423.000	5070.000
NC	.020	.020	.020	.000	.000	.000	.000	.000	.000	.000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

X3	10.000	.000	.000	.000	.000	.000	.000	1425.500	1425.500	.000
GR	1425.500	4972.000	1418.000	4973.000	1418.000	5000.000	1418.000	5028.000	1425.500	5028.100

Grand Ave/R.R. Bridge

GR	1.250	1.600	2.600	.000	56.000	6.000	230.000	.000	1418.100	1418.000
X1	2.626	9.000	4972.000	5028.100	25.000	25.000	25.000	.000	.000	.000
X2	.000	.000	1.000	1423.500	1425.500	.000	.000	1.230	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1425.500	1425.500	.000
[illegible]	2.000	4972.000	1425.500	1423.500	5028.100	1425.500	1423.500	.000	.000	.000
GR	1425.500	4972.000	1418.100	4973.000	1418.100	5000.000	1418.100	5028.000	1425.500	5028.100
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.647	9.000	4920.000	5050.000	180.000	45.000	110.000	.000	.000	.000
GR	1423.000	4920.000	1420.000	4935.000	1419.000	4940.000	1420.000	4950.000	1421.000	4970.000
GR	1420.000	4990.000	1419.000	5000.000	1420.000	5015.000	1424.000	5050.000	.000	.000
X1	2.684	16.000	4950.000	5030.000	270.000	155.000	195.000	.000	.000	.000
GR	1425.000	4765.000	1424.000	4820.000	1423.000	4830.000	1424.000	4865.000	1424.000	4910.000
GR	1423.000	4920.000	1424.000	4930.000	1425.000	4950.000	1424.000	4970.000	1421.000	5000.000
GR	1424.000	5015.000	1425.000	5030.000	1424.000	5040.000	1422.000	5060.000	1424.000	5075.000
GR	1427.000	5100.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	2.771	9.000	4970.000	5025.000	430.000	485.000	460.000	.000	.000	.000
GR	1429.000	4560.000	1428.000	4625.000	1427.000	4710.000	1427.000	4840.000	1427.500	4970.000
GR	1426.000	5000.000	1427.500	5025.000	1427.000	5100.000	1429.000	5260.000	.000	.000
X1	2.877	12.000	4970.000	5025.000	520.000	585.000	560.000	.000	.000	.000
GR	1433.500	4500.000	1432.000	4570.000	1431.000	4650.000	1432.000	4790.000	1431.000	4970.000
GR	1430.000	5000.000	1431.000	5025.000	1430.000	5140.000	1432.000	5350.000	1432.000	5450.000
GR	1432.000	5510.000	1436.000	5550.000	.000	.000	.000	.000	.000	.000

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Potato
CAP3 West Confluence

X1	3.064	8.000	4975.000	5050.000	960.000	1025.000	990.000	.000	.000	.000
X2	670.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1440.000	4540.000	1439.000	4590.000	1439.000	4830.000	1438.000	4975.000	1437.000	5040.000
GR	1438.000	5020.000	1439.000	5210.000	1440.000	5600.000	.000	.000	.000	.000
X1	3.183	7.000	4960.000	5125.000	640.000	625.000	600.000	.000	.000	.000
GR	1444.000	4620.000	1443.000	4800.000	1443.500	4960.000	1442.000	5000.000	1443.500	5125.000
GR	1443.000	5300.000	1444.000	5350.000	.000	.000	.000	.000	.000	.000
X1	3.303	14.000	4970.000	5090.000	820.000	570.000	610.000	.000	.000	.000
GR	1448.500	4670.000	1448.000	4715.000	1475.000	4870.000	1448.000	4970.000	1447.000	5000.000
GR	1448.000	5020.000	1447.000	5050.000	1447.000	5115.000	1447.000	5140.000	1448.000	5160.000
GR	1447.000	5210.000	1448.000	5290.000	1448.000	5415.000	1448.500	5450.000	.000	.000
X1	3.407	5.000	4950.000	5385.000	540.000	550.000	530.000	.000	.000	.000
X2	340.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1453.000	4420.000	1452.000	4550.000	1451.000	5000.000	1451.000	5070.000	1452.000	5385.000
X1	3.494	4.000	4910.000	5500.000	430.000	470.000	440.000	.000	.000	.000
GR	1456.000	4910.000	1454.000	5000.000	1454.000	5150.000	1455.000	5520.000	.000	.000
X1	3.650	10.000	4860.000	5000.000	825.000	810.000	830.000	.000	.000	.000
GR	1462.000	4860.000	1460.000	4910.000	1459.000	4940.000	1462.000	4970.000	1461.000	5000.000
[illegible]	1462.000	5060.000	1460.000	5090.000	1459.000	5120.000	1460.000	5150.000	1462.000	5200.000
X1	3.823	13.000	4900.000	5030.000	915.000	930.000	915.000	.000	.000	.000
GR	1463.000	4820.000	1468.000	4900.000	1467.000	4925.000	1468.000	4950.000	1471.000	4980.000
GR	1468.000	4970.000	1467.000	5000.000	1468.000	5010.000	1469.000	5030.000	1468.000	5065.000
GR	1467.000	5080.000	1468.000	5095.000	1469.000	5120.000	.000	.000	.000	.000

GR	1480.000	4965.000	1476.000	4990.000	1474.000	5000.000	1476.000	5015.000	1479.000	5075.000
X1	4.205	7.000	4950.000	5100.000	900.000	900.000	900.000	.000	.000	.000
GR	1487.000	4950.000	1484.000	4960.000	1482.000	4980.000	1479.000	5000.000	1480.000	5025.000
GR	1484.000	5040.000	1488.000	5100.000	.000	.000	.000	.000	.000	.000
	4.353	9.000	4920.000	5160.000	785.000	765.000	765.000	.000	.000	.000
GR	1499.000	4880.000	1496.000	4885.000	1492.000	4920.000	1488.000	4950.000	1486.000	5000.000
GR	1488.000	5025.000	1492.000	5160.000	1496.000	5200.000	1500.000	5230.000	.000	.000
X1	4.482	5.000	4935.000	5100.000	710.000	640.000	630.000	.000	.000	.000
GR	1498.000	4935.000	1496.000	4990.000	1495.000	5000.000	1496.000	5035.000	1499.000	5100.000
X1	4.615	6.000	4970.000	5025.000	705.000	690.000	700.000	.000	.000	.000
GR	1504.000	4890.000	1500.000	4970.000	1499.000	5000.000	1500.000	5025.000	1503.000	5065.000
GR	1504.000	5200.000	.000	.000	.000	.000	.000	.000	.000	.000

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X1	4.721	6.000	4960.000	5170.000	520.000	600.000	550.000	.000	.000	.000
GR	1509.000	4375.000	1503.000	4960.000	1504.000	5000.000	1505.000	5075.000	1508.000	5170.000
GR	1509.000	5290.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	4.836	7.000	4980.000	5020.000	650.000	550.000	610.000	.000	.000	.000
GR	1515.000	4890.000	1514.000	4960.000	1512.000	4980.000	1513.000	5000.000	1512.000	5020.000
GR	1514.000	5050.000	1515.000	5150.000	.000	.000	.000	.000	.000	.000
X1	4.940	7.000	4990.000	5010.000	505.000	580.000	550.000	.000	.000	.000
GR	1521.000	4930.000	1520.000	4980.000	1516.000	4990.000	1515.000	5000.000	1516.000	5010.000
GR	1520.000	5020.000	1521.000	5100.000	.000	.000	.000	.000	.000	.000
X1	5.035	7.000	4970.000	5025.000	505.000	495.000	500.000	.000	.000	.000
GR	1525.000	4950.000	1524.000	4970.000	1520.000	4990.000	1519.000	5000.000	1520.000	5015.000
GR	1524.000	5025.000	1525.000	5050.000	.000	.000	.000	.000	.000	.000
X1	5.120	7.000	4950.000	5030.000	445.000	455.000	450.000	.000	.000	.000
GR	1530.000	4960.000	1528.000	4950.000	1524.000	4980.000	1523.000	5000.000	1524.000	5010.000
GR	1528.000	5030.000	1530.000	5100.000	.000	.000	.000	.000	.000	.000
X1	5.215	6.000	4975.000	5020.000	455.000	490.000	500.000	.000	.000	.000
GR	1534.000	4975.000	1532.000	4975.000	1528.000	5000.000	1532.000	5020.000	1533.000	5050.000
GR	1534.000	5100.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	5.253	7.000	4970.000	5030.000	310.000	295.000	310.000	.000	.000	.000
GR	1537.000	4930.000	1536.000	4970.000	1532.000	4990.000	1531.000	5000.000	1532.000	5020.000
GR	1536.000	5030.000	1538.000	5055.000	.000	.000	.000	.000	.000	.000
X1	5.341	7.000	4930.000	5065.000	380.000	350.000	365.000	.000	.000	.000
GR	1541.000	4900.000	1540.000	4930.000	1536.000	4970.000	1534.000	5000.000	1536.000	5020.000
GR	1540.000	5065.000	1541.000	5150.000	.000	.000	.000	.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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SECND	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWS	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTR
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CONV 100 STHV 300

```
*SECNO  .000
      .00     4.25  1345.26      .00  1345.00  1345.41      .15      .00      .00  1352.00
     1757.      0.    1757.       0.       0.     564.       0.       0.       0.  1348.00
      .00      .00     3.11      .00     .040     .040     .040     .000  1341.00  4984.50
   .006757      0.       0.       0.        0        0        5      .00   547.00  5831.58
0
 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1345.26

 STA=    4984.    5730.
   PER Q=    100.0
    AREA=    564.2
     VEL=      3.1

 *SECNO  .099

 3265 DIVIDED FLOW

      .10     4.60  1348.60      .00      .00  1348.86      .26     3.41      .03  1352.00
     1757.      0.     614.    1143.       0.     110.     344.       6.       6.  1348.00
      .04      .00     5.19     3.32     .040     .040     .040     .000  1344.00  4980.51
   .006249     525.     525.     525.        4        0        0      .00   505.69  5592.63
0
 FLOW DISTRIBUTION FOR SECNO=       .10          CWSEL=   1348.60

 STA=    4981.    5030.    5120.    5255.    5385.    5455.    5593.
   PER Q=     34.9      2.0      1.5     32.9     25.5      3.1
    AREA=    118.3     26.9     20.6    143.9    111.9     41.2
     VEL=      5.2      1.3      1.3      4.0      4.0      1.3

 *SECNO  .235
      .23     1.42  1350.92      .00      .00  1350.95      .04     2.08      .02  1352.00
     1757.      0.    1434.     323.       0.     864.     356.      20.      23.  1350.00
      .17      .00     1.66      .91     .040     .040     .040     .000  1349.50  4954.53
   .001671     715.     715.     715.        6        0        0      .00  1523.13  6483.66
0
 FLOW DISTRIBUTION FOR SECNO=       .23          CWSEL=   1350.92

 STA=    4955.    5710.    6484.
   PER Q=     81.6     18.4
    AREA=    863.7    356.3
     VEL=      1.7       .9

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       SLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XMR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICCNT    CORAR    TOPWID     ENDST


 *SECNO  .415
      .41     1.68  1351.68      .00      .00  1351.69      .01      .74      .00  1352.00
     1757.      0.    1649.     108.       0.    1733.     195.      54.      57.  1350.50
      .45      .00      .95      .55     .040     .040     .040     .000  1350.00  4731.96
   .000447     950.     950.     950.        3        0        0      .00  1623.56  6360.52
0
 FLOW DISTRIBUTION FOR SECNO=       .41          CWSEL=   1351.68

 STA=    4732.    6030.    6361.
   PER Q=     93.9      6.1
    AREA=   1732.6    195.1
     VEL=      1.0       .6

 *SECNO  .561
```

```
      .56      .94  1352.44      .00      .00  1352.51      .07      .00      .02  1352.00
     1757.       5.     1752.       0.       5.      811.       0.      79.      81.   1352.00
      .55      .93      2.16      .91     .040     .040     .040     .000  1351.50  4516.39
   .004651     770.      770.     770.        3        0        0      .00  1055.82  5572.21
0
 FLOW DISTRIBUTION FOR SECNO=       .56          CWSEL=   1352.44

 STA=    4516.    4540.    5570.    5572.
   PER Q=       .3     99.7       .0
    AREA=      5.2    810.9       .5
     VEL=       .9      2.2       .9

 *SECNO  .652

 1645 INT SEC ADDED BY RAISING SEC       .65,   -.375FT AND MULTIPLYING BY  18.234

     1.01     1.33  1352.95      .00      .00  1353.01      .06      .49      .00  1355.63
     1757.       0.     1757.       0.       0.      922.       0.      81.      84.   1355.63
      .57      .00      1.90      .00     .000     .050     .000     .000  1351.63  8681.19
   .003675     128.      120.     110.        2        0        0      .00   846.36  9529.54
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1352.95

 STA=    8681.    9957.
   PER Q=    100.0
    AREA=    922.4
     VEL=      1.9

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .125FT AND MULTIPLYING BY    .685

     1.02     1.63  1353.38      .00      .00  1353.46      .07      .44      .00  1355.75
     1757.       0.     1757.       0.       0.      818.       0.      83.      86.   1355.75
      .58      .00      2.15      .00     .000     .050     .000     .000  1351.75  7431.37
   .003678     128.      120.     110.        2        0        0      .00   629.19  8060.56
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1353.38

 STA=    7431.    8320.
   PER Q=    100.0
    AREA=    818.2
     VEL=      2.1


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .125FT AND MULTIPLYING BY    .540

     1.03     2.01  1353.88      .00      .00  1354.03      .14      .55      .02  1355.88
     1757.       0.     1757.       0.       0.      575.       0.      85.      87.   1355.88
      .59      .00      3.05      .00     .000     .050     .000     .000  1351.88  6193.07
   .005865     128.      120.     110.        2        0        0      .00   371.63  6564.71
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1353.88

 STA=    6193.    6682.
   PER Q=    100.0
    AREA=    575.3
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    VEL=      3.0

 1645 INT SEC ADDED BY RAISING SEC      1.03,    .125FT AND MULTIPLYING BY    .148

 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      .65     3.63  1355.65  1355.65      .00  1356.94     1.29     1.31      .34  1356.00
    1757.       0.    1757.       0.       0.     193.       0.      86.      88.  1356.00
      .60     .00     9.10     .00     .080     .050     .080     .000  1352.00  4966.30
  .027204     120.     120.     110.       20       14        0      .00    75.68  5041.98
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 FLOW DISTRIBUTION FOR SECNO=      .65          CWSEL=   1355.65

 STA=    4966.    5045.
   PER Q=    100.0
    AREA=    193.1
     VEL=      9.1

 SECNO  .705

 1645 INT SEC ADDED BY RAISING SEC      .70,    .000FT AND MULTIPLYING BY   1.946

 3301 HV CHANGED MORE THAN HVINS

      1.01     5.92  1357.92      .00      .00  1358.18      .26     1.14      .10  1356.00
    1757.      60.    1394.     302.      54.     305.     269.      88.      89.  1356.00
      .61     1.12     4.57     1.12     .080     .050     .080     .000  1352.00  5037.43
  .003849      13.     143.     143.        4        0        0      .00   414.29  5451.72
0
 FLOW DISTRIBUTION FOR SECNO=     1.01          CWSEL=   1357.92

 STA=    5037.    5094.    5171.    5452.
   PER Q=      3.4     79.4     17.2
    AREA=     53.9    305.2    269.3
     VEL=      1.1      4.6      1.1

 1645 INT SEC ADDED BY RAISING SEC      1.01,    .000FT AND MULTIPLYING BY    .514

      .70     6.44  1358.44      .00      .00  1359.01      .57      .73      .09  1356.00
    1757.      84.    1253.     420.      45.     177.     823.      69.      90.  1356.00
      .62     1.89     7.06     1.89     .080     .050     .080     .000  1352.00  4943.45
  .007940      13.     143.     143.        3        0        0      .00   259.31  5202.76

 FLOW DISTRIBUTION FOR SECNO=      .70          CWSEL=   1358.44

 STA=    4943.    4980.    5020.    5203.
   PER Q=      4.8     71.3     23.9
    AREA=     44.5    177.5    222.7
     VEL=      1.9      7.1      1.9
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO  .707
      .71     2.63  1359.63      .00      .00  1359.13      .51      .12      .01  1356.00
    1757.      157.     812.     788.      92.     105.     259.      69.      90.  1356.00
      .62     3.04     7.72     3.04     .080     .050     .080     .000  1356.00  4940.58
  .010619      10.      10.      10.        5        0        0      .00   275.55  5217.12
0
 FLOW DISTRIBUTION FOR SECNO=       .71          CWSEL=   1359.63

 STA=    4941.    4980.    5020.    5217.
   PER Q=      9.0     46.2     44.8
    AREA=     51.8    105.1    259.0
     VEL=      3.0      7.7      3.0

 CCHV=    .300 CEHV=    .500
 *SECNO  .763
      .76     2.25  1360.75      .00      .00  1360.78      .03     1.51      .14  1360.00
    1757.       5.     1744.      7.      10.    1234.      14.      94.      93.  1360.00
      .66      .53     1.41      .53     .080     .070     .080     .000  1358.50  4672.54
  .003082     400.     215.     295.        4        0        0      .00  1003.46  5676.40
0
 FLOW DISTRIBUTION FOR SECNO=       .76          CWSEL=   1360.75

 STA=    4673.    4700.    5640.    5676.
   PER Q=       .3     99.3       .4
    AREA=     10.1   1234.3     13.6
     VEL=       .5      1.4       .5

 *SECNO  .801

 1645 INT SEC ADDED BY RAISING SEC       .80,   -.333FT AND MULTIPLYING BY   4.325

     1.01     2.13  1360.79      .00      .00  1360.80      .01      .01      .01  1359.67
    1757.    1064.     651.      42.    2476.     840.     247.      98.      97.  1360.47
      .70      .43      .77      .17     .025     .025     .025     .000  1358.67  5639.40
  .000063      73.      67.      53.        2        0        0      .00  4538.74 10178.14
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1360.79

 STA=    5639.    5961.    6753.    7545.    8591.    8983.   10034.   10178.
   PER Q=      1.6     15.5     18.7     24.7     37.0      2.4       .0
    AREA=    117.1    655.2    734.4    969.4    840.4    227.6      9.2
     VEL=       .2       .4       .4       .4       .8       .2       .1
```



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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORAR    TOPWID     ENDST
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```
     1.02     1.96  1360.79      .00      .00  1360.82      .02      .01      .01  1360.83
    1757.     996.     753.       8.    1216.     473.      41.     102.     103.  1360.63
      .72      .82     1.59      .19     .025     .025     .025     .000  1353.83  5016.59
  .000297      73.      67.      53.        2        0        0      .00  2513.29  7529.88
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1360.79

 STA=    5017.    5168.    5652.    6135.    6773.    7016.    7530.
   PER Q=      1.1     14.1     17.9     23.6     42.8       .4
    AREA=     42.5    319.5    367.9    485.6    472.6     41.3
     VEL=       .4       .8       .9       .9      1.6       .2


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .167FT AND MULTIPLYING BY    .362


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1363.10 ELREA=     1363.10

      .80     2.32  1361.32  1361.32      .00  1362.49     1.16      .06      .57  1360.20
    1757.       0.    1757.       0.       0.     203.       0.     104.     105.  1360.00
      .72      .00     8.66      .00     .025     .025     .025     .000  1353.00  4956.00
  .007141      73.      67.      53.       20       11        0      .00    88.00  5044.00
0
 FLOW DISTRIBUTION FOR SECNO=       .80          CWSEL=   1361.32

 STA=    4956.    5044.
   PER Q=    100.0
    AREA=    202.9
     VEL=      8.7

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLDSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWS    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 SPECIAL BRIDGE

 5227 DOWNSTREAM ELEV IS   1360.91 ,NOT   1361.32 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB  XK       XKOR     COPQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
      1.25     1.60     2.60      .00    86.00     6.00   320.00      .00  1359.40  1359.00

 *SECNO  .818 DEER Valley RD.

 3301 HV CHANGED MORE THAN HVINS

 CLASS B LOW FLOW

 3420 BRIDGE W.S.=   1361.67 BRIDGE VELOCITY=,      8.91      CALCULATED CHANNEL AREA=,      181.

  EGPRS     EGLWC      H3      QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD
                                                           AREA
      .00  1362.10      .00        0     1757      728      728     1363.10  1362.50
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```
3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1363.50 ELREA=     1363.50

      .82      3.17  1362.57      .00      .00  1363.19      .62      .70      .00  1360.20
    1757.        0.    1757.       0.       0.     278.       0.     104.     105.   1360.80
      .72      .00      6.32      .00     .000     .025     .000     .000  1359.40  4956.00
   .002479     90.      90.      90.        0        0        0      .00    83.00  5044.00
0
 FLOW DISTRIBUTION FOR SECNO=       .82          CWSEL=   1362.57

 STA=    4956.    5044.
   PER Q=    100.0
    AREA=    277.9
     VEL=      6.3

 CCHV=    .100 CEHV=    .300
 *SECNO  .886

 1645 INT SEC ADDED BY RAISING SEC       .99,   -.800FT AND MULTIPLYING BY    .584


 3301 HV CHANGED MORE THAN HVINS

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    SECNO    DEPTH    CWSEL    CRIWS    WDELK    EG       HV       HL       DLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


      1.01      3.31  1363.51      .00      .00  1363.54      .03      .99      .06  1361.20
     1757.      173.     1479.     105.     206.     1019.     111.     107.     107.   1360.70
       .76      .84      1.45      .94     .070     .070     .070     .000  1362.20  4167.30
   .001126     180.      180.     180.        2        0        0      .00   607.79  4775.09
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1363.51

 STA=    4167.    4188.    4342.    4602.    4762.    4775.
   PER Q=       .0      9.8     84.2      6.0       .0
    AREA=      3.1    202.5   1018.8    109.2      2.0
     VEL=       .2       .9      1.5      1.0       .2


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .800FT AND MULTIPLYING BY   1.714

      .89      2.71  1363.71      .00      .00  1363.73      .02      .18      .00  1362.00
    1757.      112.     1565.     81.     192.     1300.     116.     114.     110.   1361.50
      .80      .58      1.13      .69     .070     .070     .070     .000  1361.00  4414.66
   .000939     180.      180.     180.        2        0        0      .00   930.97  5345.63
0
 FLOW DISTRIBUTION FOR SECNO=       .89          CWSEL=   1363.71

 STA=    4415.    4640.    5240.    5346.
   PER Q=      6.4     89.0      4.6
    AREA=    191.6   1380.4    116.2
     VEL=       .6      1.1       .7

 *SECNO 1.022

 3265 DIVIDED FLOW
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.02      2.03  1367.33  1367.33      .00  1367.75      .42      1.93      .12  1366.00
    1757.      392.     871.     495.     168.     135.     212.      132.     123.  1366.00
      .85      2.33     6.98     2.33     .070     .050     .070      .000  1364.50  4717.49
  .020836      820.     715.     635.       20        8        0       .00   631.46  5532.96
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1367.33

STA=    4717.    4970.    5030.    5156.    5420.    5533.
  PER Q=     22.3     49.6     11.1      7.0     10.0
   AREA=    167.8    124.7     83.9     53.0     75.1
    VEL=      2.3      7.0      2.3      2.3      2.3

*SECNO 1.189
     1.19      3.29  1372.79      .00      .00  1372.86      .03      5.00      .03  1372.00
    1757.       20.     1731.       6.       34.      772.       10.      145.      135.  1372.00
      .96       .58      2.24      .58     .070     .050     .070      .000  1369.50  4753.77
  .002609      850.      900.     890.        6        0        0       .00   542.36  5296.13
0
FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1372.79

STA=    4754.    4840.    5270.    5296.
  PER Q=      1.1     98.5      .3
   AREA=     33.8    772.1     10.2
    VEL=       .6      2.2      .6

*SECNO 1.352 Pinnacle Peak RD Alignment
     1.35      2.00  1376.50      .00      .00  1376.66      .16      3.77      .02  1376.00
    1139.       15.     1124.       0.       18.      348.        0.      158.      144.  1380.00
     1.04       .82      3.23      .00     .070     .050     .070      .000  1374.50  4767.43
  .009362      850.      960.     900.        3        0        0       .00   365.71  5133.14
0
FLOW DISTRIBUTION FOR SECNO=      1.35          CWSEL=   1376.50

STA=    4767.    4840.    5260.
  PER Q=      1.3     98.7
   AREA=     18.2    348.4
    VEL=       .8      3.2

*SECNO 1.502
     1.50      2.36  1381.36      .00      .00  1381.47      .11      4.80      .01  1380.00
    1139.      199.      899.      41.      186.      307.      38.      166.      152.  1380.00
     1.13      1.07      2.93     1.07     .070     .050     .070      .000  1379.00  4661.70
  .004267      790.      790.     805.        5        0        0       .00   494.32  5156.02
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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```
 FLOW DISTRIBUTION FOR SECNO=      1.50          CWSEL=   1381.36

 STA=    4662.    4935.    5100.    5156.
   PER Q=      17.5     79.0      3.6
   AREA=     185.6    306.6     38.0
    VEL=       1.1      2.9      1.1

 *SECNO 1.725
      1.73     1.73  1388.73      .00      .00  1388.87      .14     7.40      .01  1388.00
     1139.      11.     1128.       0.      10.     378.       0.     178.     164.   1389.00
      1.24     1.10      2.96      .00     .070     .050     .070     .000  1387.00  4643.43
   .010334    1040.     1180.    1310.        4        0        0      .00   412.23  5055.66
0
 FLOW DISTRIBUTION FOR SECNO=      1.73          CWSEL=   1388.73

 STA=    4643.    4670.    5065.
   PER Q=       .9     99.1
   AREA=       9.7    378.3
    VEL=       1.1      3.0

 *SECNO 1.956
      1.96     2.19  1397.69      .00      .00  1397.80      .12     9.93      .00  1397.00
      962.     151.      807.       4.     133.     274.       5.     190.     176.   1397.00
      1.37     1.13      2.94      .75     .070     .050     .070     .000  1395.50  4721.93
   .005182    1230.     1220.    1180.        5        0        0      .00   402.95  5124.88
0
 FLOW DISTRIBUTION FOR SECNO=      1.96          CWSEL=   1397.69

 STA=    4722.    4770.    4940.    5110.    5125.
   PER Q=       1.3     14.4     83.9       .4
   AREA=      16.5    116.8    274.3      5.1
    VEL=        .7      1.2      2.9       .7

 *SECNO 2.102
      2.10     2.12  1402.12      .00      .00  1402.23      .11     4.43      .00  1402.00
      962.       0.      961.       0.       1.     355.       1.     197.     182.   1402.00
      1.45      .26      2.71      .26     .070     .050     .070     .000  1400.00  4835.96
   .006319     855.      770.     660.        3        0        0      .00   323.87  5159.84
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.10          CWSEL=   1402.12

 STA=    4836.    4850.    5140.    5160.
   PER Q=       .0     99.9       .0
   AREA=       .9    355.4      1.2
    VEL=       .3      2.7       .3

 SECNO 2.320
      2.32     2.10  1411.10      .00      .00  1411.29      .19     9.03      .02  1410.00
      873.      98.      592.     183.      68.     144.     121.     206.     192.   1410.00
      1.54     1.44      4.12     1.52     .070     .050     .070     .000  1408.00  4836.61
   .010314    1150.     1150.    1140.        3        0        0      .00   439.53  5276.14
0
 FLOW DISTRIBUTION FOR SECNO=      2.32          CWSEL=   1411.10

 STA=    4877.    4960.    5050.    5253.    5276.
```

```
   PER Q=     11.2     67.9     20.9      .0
    AREA=     67.7    143.7    119.4     1.3
     VEL=      1.4      4.1      1.5      .3

 *SECNO 2.442
      2.44     3.15  1416.15      .00      .00  1416.29      .13     4.99      .01  1415.00
     873.     395.     478.       0.     239.     130.       1.     211.     198.   1416.00
      1.61     1.69     3.69      .30     .070     .050     .070     .000  1413.00  4696.95
   .006120     625.     645.     645.        3        0        0      .00   329.92  5026.87
0
 FLOW DISTRIBUTION FOR SECNO=      2.44          CWSEL=   1416.15

 STA=    4697.    4810.    4955.    5020.    5027.
   PER Q=     10.3     34.9     54.8      .0
    AREA=     72.0    167.1    129.9      .5
     VEL=      1.2      1.8      3.7      .3

 CCHV=    .300 CEHV=    .500
 *SECNO 2.477
      2.48     3.19  1417.19      .00      .00  1417.26      .07      .95      .02  1417.00
     873.     628.     245.       0.     325.     103.       0.     213.     199.   1418.00
      1.63     1.93     2.38      .00     .070     .050     .070     .000  1414.00  4752.15
   .004373     185.     185.     185.        1        0        0      .00   283.62  5041.77
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.48          CWSEL=   1417.19

 STA=    4752.    4770.    4850.    4950.    4965.    5060.
   PER Q=      1.2     30.8     38.6      1.3     28.1
    AREA=     10.6    135.2    169.0     10.3    102.9
     VEL=      1.0      2.0      2.0      1.1      2.4

 *SECNO 2.512

 1645 INT SEC ADDED BY RAISING SEC      2.51,   -.333FT AND MULTIPLYING BY   1.051


 3301 HV CHANGED MORE THAN HVINS

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      1.01     2.81  1416.97  1416.97      .00  1418.39     1.41      .29      .67  1419.17
     843.       0.     843.       0.       0.      88.       0.     213.     199.   1419.17
      1.63      .00     9.54      .00     .020     .020     .020     .000  1414.17  4985.05
   .005175      62.      62.      62.        3       11        0      .00    31.54  5016.59
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1416.97

 STA=    4985.    5017.
   PER Q=    100.0
    AREA=     88.4
     VEL=      9.5


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .167FT AND MULTIPLYING BY    .976
```

3301 HV CHANGED MORE THAN HVING

1.02	3.60	1417.93	1417.12	.00	1418.77	.84	.21	.17	1419.33
814.	0.	814.	0.	0.	111.	0.	213.	199.	1419.33
1.64	.00	7.35	.00	.020	.020	.020	.000	1414.33	4985.03
.002343	62.	62.	62.	15	5	0	.00	30.81	5015.84

FLOW DISTRIBUTION FOR SECNO= 1.02 CWSEL= 1417.93

STA= 4985. 5016.
PER Q= 100.0
AREA= 110.7
VEL= 7.4

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1645 INT SEC ADDED BY RAISING SEC 1.02, .167FT AND MULTIPLYING BY .975

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1419.50 ELREA= 1419.50

2.51	3.60	1418.10	.00	.00	1418.92	.82	.14	.01	1419.50
784.	0.	784.	0.	0.	108.	0.	213.	199.	1419.50
1.64	.00	7.28	.00	.020	.020	.020	.000	1414.50	4985.03
.002313	62.	62.	62.	0	0	0	.00	30.04	5015.07

0
FLOW DISTRIBUTION FOR SECNO= 2.51 CWSEL= 1418.10

STA= 4985. 5015.
PER Q= 100.0
AREA= 107.8
VEL= 7.3

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.60	2.60	.00	33.00	3.00	90.00	.00	1414.70	1414.50

*SECNO 2.521
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
1419.98	1419.33	.55	19.	764.	90.	90.	1417.70	1419.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1419.50 ELREA= 1419.50

2.52	4.71	1419.41	.00	.00	1419.88	.48	.97	.00	1419.50
784.	0.	784.	0.	0.	141.	0.	213.	199.	1419.50
1.64	.00	5.55	.00	.000	.020	.000	.000	1414.70	4985.00
.001011	45.	45.	45.	2	0	2	.00	30.10	5015.10

0
FLOW DISTRIBUTION FOR SECNO= 2.52 CWSEL= 1419.41

```
STA=    4985.    5015.
  PER Q=    100.0
   AREA=    141.4
    VEL=      5.5
```



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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2.553

3265 DIVIDED FLOW

     2.55     4.67  1420.17      .00      .00  1420.25      .08      .24      .12  1421.00
     784.      24.     484.     276.      41.     173.     322.     215.     200.  1420.00
     1.66      .59     2.80      .86     .090     .050     .090     .000  1415.50  4985.78
  .002200     170.     170.     170.        2        0        0      .00   407.67  5306.75
0
 FLOW DISTRIBUTION FOR SECNO=      2.55          CWSEL=   1420.17

 STA=    4886.    4915.    4950.    4952.    5025.    5155.    5300.    5307.
   PER Q=      1.3      1.8       .0     61.7     16.7     19.6       .0
    AREA=     17.1     23.4       .1    173.0    151.9    169.5       .6
     VEL=       .6       .6       .1       2.0       .9       .9       .1

SECNO 2.587

1645 INT SEC ADDED BY RAISING SEC      2.59,   -.250FT AND MULTIPLYING BY   1.110

     1.01     4.37  1420.12      .00      .00  1420.56      .45      .13      .18  1422.75
     784.       0.     784.       0.       0.     146.       0.     215.     201.  1422.75
     1.67      .00     5.36      .00     .020     .020     .020     .000  1415.75  4965.04
  .000990      55.      90.     105.        2        0        0      .00    33.59  5018.62
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1420.12

 STA=    4985.    5019.
   PER Q=    100.0
    AREA=    146.3
     VEL=      5.4


1645 INT SEC ADDED BY RAISING SEC      1.01,    .250FT AND MULTIPLYING BY    .894


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1423.20 ELREA=     1423.20

     2.59     4.14  1420.14      .00      .00  1420.76      .62      .11      .09  1423.00
     784.       0.     784.       0.       0.     124.       0.     216.     201.  1423.00
     1.67      .00     6.32      .00     .020     .020     .020     .000  1416.00  4985.04
  .001506      55.      90.     105.        2        0        0      .00    30.02  5015.06
```



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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
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```
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      2.59          CWSEL=   1420.14

STA=    4985.    5015.
 PER Q=    100.0
  AREA=    124.0
   VEL=      6.3


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.60      2.60      .00       33.00     3.00      180.00    .00       1416.20   1416.00

*SECNO 2.599
CLASS A LOW FLOW

3420 BRIDGE W.S.=   1420.07 BRIDGE VELOCITY=,      6.58      CALCULATED CHANNEL AREA=,      116.

 EGPRS     EGLWC      H3       QWEIR     QLOW      BAREA   TRAPEZOID     ELLC     ELTRD
                                                            AREA
      .00  1421.03     .31       0.       784.      180.      180.     1422.20   1423.20


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1423.20 ELREA=     1423.20

    2.60     4.24  1420.44     .00      .00  1421.03     .59      .28      .00  1423.20
    784.      0.    784.       0.       0.    127.       0.     216.     201.   1423.20
    1.68     .00     6.17     .00     .000    .020     .000     .000  1416.20  4985.04
  .001395    55.     55.      55.       0       0        0      .00    30.02  5015.06
0
FLOW DISTRIBUTION FOR SECNO=      2.60          CWSEL=   1420.44

STA=    4985.    5015.
 PER Q=    100.0
  AREA=    127.2
   VEL=      6.2

*SECNO 2.610
    2.61     3.64  1420.64     .00      .00  1421.29     .65      .23      .03  1423.20
    784.      0.    784.       0.       0.    121.       0.     216.     201.   1423.00
    1.68     .00     6.47     .00     .030    .050     .030     .000  1417.00  4976.99
  .021044    65.     65.      65.       4       0        0      .00    63.50  5042.49
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      2.61          CWSEL=   1420.64

STA=    4977.    5070.
 PER Q=    100.0
  AREA=    121.2
   VEL=      6.5

*SECNO 2.621
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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1425.50 ELREA= 1425.50

2.62	3.24	1421.24	.00	.00	1421.54	.30	.14	.11	1425.50
784.	0.	784.	0.	0.	179.	0.	216.	201.	1425.50
1.68	.00	4.37	.00	.020	.020	.020	.000	1418.00	4972.57
.000833	60.	60.	60.	2	0	0	.00	55.48	5028.04

FLOW DISTRIBUTION FOR SECNO= 2.62 CWSEL= 1421.24

STA= 4973. 5028.
PER Q= 100.0
AREA= 179.2
VEL= 4.4

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.60	2.60	.00	56.00	6.00	280.00	.00	1418.10	1418.00

*SECNO 2.626
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1421.19 BRIDGE VELOCITY=, 5.00 CALCULATED CHANNEL AREA=, 154.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLO	ELTRD
.00	1421.66	.13	0.	784.	280.	270.	1423.50	1425.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1425.50 ELREA= 1425.50

2.63	3.27	1421.37	.00	.00	1421.66	.29	.12	.00	1425.50
784.	0.	784.	0.	0.	181.	0.	216.	201.	1425.50
1.68	.00	4.34	.00	.000	.020	.000	.000	1418.10	4972.56
.000814	25.	25.	25.	0	0	0	.00	53.49	5028.04

0
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.63 CWSEL= 1421.37

STA= 4973. 5028.
PER Q= 100.0
AREA= 180.5
VEL= 4.3

*SECNO 2.647

2.65	2.56	1421.56	.00	.00	1421.97	.40	.25	.06	1423.60
784.	0.	784.	0.	0.	154.	0.	217.	201.	1424.00
1.69	.00	5.10	.00	.070	.050	.070	.000	1419.00	4927.20
.020555	180.	110.	45.	3	0	0	.00	117.07	5044.27

0
FLOW DISTRIBUTION FOR SECNO= 2.65 CWSEL= 1421.56

STA= 4927. 5030.
PER Q= 100.0

```
    VEL=      5.1

 *SECNO 2.684

 3265 DIVIDED FLOW

     2.68      3.62  1424.62      .00      .00  1424.78      .16      2.74      .07  1425.00
     784.      221.      396.     167.     116.     102.      80.     218.     202.  1425.00
     1.71      1.91      3.87     2.76     .070     .050     .070     .000  1421.00  4785.71
  .009687      270.      195.     155.        4        0        0      .00   270.00  5080.20
0
 FLOW DISTRIBUTION FOR SECNO=      2.68          CWSEL=   1424.62

 STA=    4786.    4820.    4830.    4853.    4910.    4920.    4930.    4942.    5030.    5040.    5060.    5075.    5080.
   PER Q=     1.3      3.2     11.3      5.5      3.2      3.2       .5     50.5       .2     11.9      8.9       .2
    AREA=    10.7     11.2     39.3     28.1     11.2     11.2      3.9    102.4      1.9     32.5     24.4      1.6
     VEL=     1.0      2.3      2.3      1.5      2.3      2.3      1.0      3.9      1.0      2.9      2.9      1.0

 CCHV=    .100 CEHV=    .300
 *SECNO 2.771
     2.77      2.08  1428.08      .00      .00  1428.13      .05      3.34      .01  1427.50
     784.      446.      199.     138.     297.      73.     108.     222.     207.  1427.50
     1.78      1.50      2.73     1.27     .070     .050     .070     .000  1426.00  4620.00
  .005813      430.      460.     485.        6        0        0      .00   566.15  5186.15
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELX     ES        HV        HL        OLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     COARR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.77          CWSEL=   1428.08

 STA=    4620.    4710.    4840.    4970.    5025.    5100.    5186.
   PER Q=     7.0     30.4     19.6     25.4     11.3      6.3
    AREA=    49.2    140.0    107.5     73.0     62.0     46.4
     VEL=     1.1      1.7      1.4      2.7      1.4      1.1

 *SECNO 2.877

 3265 DIVIDED FLOW

     2.88      1.68  1431.68      .00      .00  1431.75      .06      3.62      .00  1431.00
     784.       83.      185.     516.      93.      65.     285.     228.     214.  1431.00
     1.86       .89      2.84     1.81     .070     .050     .070     .000  1430.00  4595.33
  .007295      520.      560.     585.        5        0        0      .00   620.09  5316.75
0
 FLOW DISTRIBUTION FOR SECNO=      2.88          CWSEL=   1431.68

 STA=    4595.    4650.    4746.    4970.    5025.    5140.    5317.
   PER Q=     2.1      3.7      4.8     23.6     35.2     30.7
    AREA=    18.7     32.7     42.0     65.1    136.1    148.8
     VEL=      .9       .9       .9      2.8      2.0      1.6

 *SECNO 3.064
     3.06      2.20  1439.20      .00      .00  1439.32      .11      7.55      .01  1438.00
     670.      176.      289.     205.     137.      77.     143.     237.     228.  1438.00
     1.97      1.28      3.76     1.43     .070     .050     .070     .000  1437.00  4650.74
  .007849      960.      990.    1025.        4        0        0      .00   640.76  5291.50
0
 FLOW DISTRIBUTION FOR SECNO=      3.06          CWSEL=   1439.20
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STA=    4651.    4680.    4830.    4975.    5020.    5210.    5292.
  PER Q=      .2      3.1     22.9     43.2     30.1       .5
   AREA=     3.1     31.3    102.8     76.9    134.7      9.5
    VEL=      .4       .7      1.5      3.8      1.5       .4

*SECNO 3.189
     3.19     1.00  1443.00      .00      .00  1443.07      .07     4.53      .00  1443.50
     670.     154.     425.      91.     146.     174.     90.     242.     238.   1443.50
     2.07     1.05     2.45     1.02     .070     .050     .070     .000  1442.00  4655.53
   .006325    640.     660.     625.        5        0        0      .00   664.86  5320.39
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XMR      WTN      SLMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      3.19          CWSEL=   1443.00

STA=    4656.    4800.    4960.    5125.    5200.    5320.
  PER Q=      7.9     15.0     63.4      7.0      6.6
   AREA=     58.0     88.4    173.7     41.4     48.3
    VEL=       .9      1.1      2.4      1.1       .9

*SECNO 3.303

3265 DIVIDED FLOW

     3.30     1.19  1448.19      .00      .00  1448.28      .09     4.41      .01  1448.00
     670.       1.     653.      17.       2.     267.      26.     247.     246.   1448.00
     2.14      .40     2.45      .64     .070     .050     .070     .000  1447.00  4697.63
   .008642    620.     600.     570.        5        0        0      .00   481.56  5432.37
0
FLOW DISTRIBUTION FOR SECNO=      3.32          CWSEL=   1448.19

STA=    4698.    4715.    4970.    5290.    5415.    5432.
  PER Q=       .1       .0     97.4      2.4       .1
   AREA=      1.7       .2    266.8     24.1      1.7
    VEL=       .4       .3      2.4       .7       .4

*SECNO 3.407
     3.41      .99  1451.99      .00      .00  1452.02      .03     3.73      .01  1452.00
     340.       0.     340.       0.       0.     246.       0.     251.     252.   1452.00
     2.25      .00     1.38      .00     .070     .050     .070     .000  1451.00  4950.70
   .004523    540.     550.     550.        4        0        0      .00   429.92  5380.62
0
FLOW DISTRIBUTION FOR SECNO=      3.41          CWSEL=   1451.99

STA=    4951.    5385.
  PER Q=    100.0
   AREA=    246.5
    VEL=      1.4

SECNO 3.494
     3.49      .70  1454.70      .00      .00  1454.74      .04     2.72      .00  1456.00
     340.       0.     340.       0.       0.     210.       0.     253.     256.   1455.00
     2.33      .00     1.62      .00     .070     .050     .070     .000  1454.00  4958.64
   .008030    430.     460.     470.        4        0        0      .00   442.24  5410.88
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.49          CWSEL=   1454.70

 STA=    4969.    5520.
   PER Q=    100.0
    AREA=    209.9
     VEL=      1.6

 *SECNO 3.650

 3265 DIVIDED FLOW

      3.65     1.74  1460.74      .00      .00  1460.83      .09     6.08      .01  1462.00
      340.       0.     340.       0.       0.     145.       0.     258.     352.  1462.00
      2.42     .00     2.34      .00     .070     .050     .070     .020  1459.00  4891.43
   .006859     825.     820.     810.        5        0        0      .00   155.72  5168.57
0
 FLOW DISTRIBUTION FOR SECNO=      3.65          CWSEL=   1460.74

 STA=    4891.    5200.
   PER Q=    100.0
    AREA=    145.0
     VEL=      2.3

 *SECNO 3.823

 265 DIVIDED FLOW

      3.82     1.43  1468.49      .00      .00  1468.60      .11     7.76      .01  1468.00
      340.       0.     262.     70.       9.      92.     37.     259.     356.  1469.00
      2.52     .36     2.85     1.92     .070     .050     .070     .020  1467.00  4861.11
   .010709     915.     915.     930.        5        0        0      .00   201.01  5107.15
0
 FLOW DISTRIBUTION FOR SECNO=      3.82          CWSEL=   1468.49

 STA=    4861.    4900.    5030.    5065.    5080.    5095.    5107.
   PER Q=      2.4      76.9      1.0      9.5      9.5      .7
    AREA=      9.5      91.9      4.1     14.8     14.8     2.0
     VEL=       .9       2.8       .9      2.2      2.2      .9

 *SECNO 4.034
      4.03     3.38  1477.38      .00      .00  1477.52      .13     8.92      .01  1480.00
      340.       0.     340.       0.       0.     116.       0.     263.     269.  1478.00
      2.63     .00     2.94      .00     .070     .050     .070     .020  1474.00  4974.82
   .006197    1115.    1115.    1115.        4        0        0      .00    81.66  5056.48
0
1
 05/03/88    15:49:45                                                                    PAGE   27


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      4.03          CWSEL=   1477.38

 STA=    4975.    5075.
   PER Q=    100.0
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    AREA=    115.6
     VEL=      2.9

 *SECNO 4.205
      4.20     2.80  1481.80      .00      .00  1481.93      .13     4.41      .00  1487.00
      340.       0.     340.       0.       0.     117.       0.     265.     271.   1488.00
      2.71      .00     2.89      .00     .070     .050     .070     .000  1479.00  4971.02
   .003974     900.     900.     900.        4        0        0      .00    50.72  5031.74
0
 FLOW DISTRIBUTION FOR SECNO=      4.20          CWSEL=   1481.80

 STA=    4971.    5100.
   PER Q=    100.0
    AREA=    117.5
     VEL=      2.9

 *SECNO 4.353
      4.35     1.99  1487.99      .00      .00  1488.32      .33     5.33      .06  1492.00
      340.       0.     340.       0.       0.      74.       0.     267.     272.   1492.00
      2.76      .00     4.61      .00     .070     .050     .070     .000  1486.00  4950.40
   .024336     785.     785.     785.        3        0        0      .00    74.40  5024.80
0
 FLOW DISTRIBUTION FOR SECNO=      4.35          CWSEL=   1487.99

 STA=    4950.    5160.
   PER Q=    100.0
    AREA=     73.8
     VEL=      4.6

 *SECNO 4.482
      4.48     2.12  1497.12      .00      .00  1497.25      .13     6.91      .02  1498.00
      340.       0.     340.       0.       0.     117.       0.     268.     273.   1499.00
      2.83      .00     2.90      .00     .070     .050     .070     .000  1495.00  4954.69
   .008177     710.     680.     640.        5        0        0      .00   104.69  5059.38
0
1
 05/03/88    15:48:45                                                                    PAGE   29


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       SLOPE    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      4.48          CWSEL=   1497.12

 STA=    4955.    5100.
   PER Q=    100.0
    AREA=    117.3
     VEL=      2.9

 *SECNO 4.615
      4.61     2.34  1501.34      .00      .00  1501.47      .13     4.82      .00  1500.00
      340.      20.     307.      13.      18.     101.      12.     270.     275.   1500.00
      2.89     1.10     3.03     1.10     .070     .050     .070     .000  1493.00  4943.13
   .004621     705.     700.     690.        4        0        0      .00    93.60  5042.87

 FLOW DISTRIBUTION FOR SECNO=      4.61          CWSEL=   1501.34

 STA=    4943.    4970.    5025.    5043.
   PER Q=      5.8     90.3      3.9
    AREA=     18.8    101.2     12.0
     VEL=      1.1      3.0      1.1

 *SECNO 4.721
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     4.72     1.59  1505.59      .00      .00  1505.77      .18     4.29      .02  1508.00
     340.       0.     340.       0.       0.      99.       0.     272.     276.  1508.00
     2.94      .00     3.42      .00     .070     .050     .070     .000  1504.00  4984.15
   .015078    520.     560.     600.        4        0        0      .00   107.38  5093.53
0
 FLOW DISTRIBUTION FOR SECNO=      4.72          CWSEL=   1505.59

 STA=    4984.    5170.
   PER Q=    100.0
    AREA=     93.4
     VEL=      3.4

 *SECNO 4.836
     4.84     3.46  1512.46      .00      .00  1512.75      .29     6.95      .03  1512.00
     340.       1.     338.       1.       1.      78.       2.     273.     277.  1512.00
     2.98      .74     4.34      .74     .070     .050     .070     .000  1509.00  4975.52
   .008902    650.     610.     590.        4        0        0      .00    51.19  5026.71
0
1
  05/03/99    15:40:45                                                                PAGE   29

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       CLOSS    BANK ELEV
    Q        GLOB     GCH      QROB     RLOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CONAR    TOPWID     ENDSY

 FLOW DISTRIBUTION FOR SECNO=      4.84          CWSEL=   1512.46

 STA=    4976.    4980.    5020.    5027.
   PER Q=      .2     99.5      .3
    AREA=     1.0     77.9     1.5
     VEL=      .7      4.3      .7

 *SECNO 4.940
     4.94     3.03  1518.03      .00      .00  1518.61      .56     5.78      .08  1516.00
     340.      12.     316.      12.       5.      51.       5.     274.     278.  1516.00
     3.00     2.30     6.21     2.30     .070     .050     .070     .000  1515.00  4984.09
   .012628    505.     550.     550.        4        0        0      .00    37.23  5015.11
0
 FLOW DISTRIBUTION FOR SECNO=      4.94          CWSEL=   1518.03

 STA=    4985.    4990.    5010.    5015.
   PER Q=      3.5     92.9      3.5
    AREA=      5.2     50.9      5.2
     VEL=      2.3      6.2      2.3

 *SECNO 5.035
     5.03     3.33  1522.33      .00      .00  1522.59      .20     3.93      .04  1524.00
     340.       0.     340.       0.       0.      94.       0.     275.     278.  1524.00
     3.04      .00     3.63      .00     .070     .050     .070     .000  1519.00  4978.06
   .005406    505.     500.     435.        4        0        0      .00    42.92  5020.97
0
 FLOW DISTRIBUTION FOR SECNO=      5.03          CWSEL=   1522.39

 STA=    4978.    5025.
   PER Q=    100.0
    AREA=     93.6
     VEL=      3.6

 *SECNO 5.120
     5.12     2.65  1525.65      .00      .00  1525.92      .27     3.30      .02  1528.00
     340.       0.     340.       0.       0.      82.       0.     276.     279.  1528.00
     3.07      .00     4.17      .00     .070     .050     .070     .000  1523.00  4967.62
   .010503    445.     450.     455.        3        0        0      .00    53.63  5010.25
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0
1


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORRAR   TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.18          CWSEL=   1525.85

 STA=    4968.    5030.
   PER Q=    100.0
    AREA=     81.5
     VEL=      4.2

 *SECNO 5.215
      5.22     3.49  1531.49      .00      .00  1531.87      .38     5.93      .03  1532.00
      340.       0.     340.       0.       0.      69.       0.     277.     279.   1532.00
      3.10      .00     4.95      .00     .070     .050     .070     .000  1528.00  4978.15
   .013445     455.     500.     490.        4        0        0      .00    39.32  5017.48
0
 FLOW DISTRIBUTION FOR SECNO=      5.22          CWSEL=   1531.49

 STA=    4978.    5020.
   PER Q=    100.0
    AREA=     88.7
     VEL=      4.9

 *SECNO 5.253
      5.25     3.13  1534.13      .00      .00  1534.33      .19     2.43      .02  1536.00
      340.       0.     340.       0.       0.      96.       0.     277.     280.   1536.00
      3.12      .00     3.54      .00     .070     .050     .070     .000  1531.00  4979.33
   .005421     310.     300.     295.        3        0        0      .00    46.00  5025.33
0
 FLOW DISTRIBUTION FOR SECNO=      5.25          CWSEL=   1534.13

 STA=    4979.    5030.
   PER Q=    100.0
    AREA=     96.1
     VEL=      3.5

 *SECNO 5.341
      5.34     2.73  1536.73      .00      .00  1536.94      .21     2.61      .01  1540.00
      340.       0.     340.       0.       0.      92.       0.     278.     280.   1540.00
      3.15      .00     3.69      .00     .070     .050     .070     .000  1534.00  4982.71
   .009843     380.     365.     350.        3        0        0      .00    65.49  5028.20
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORRAR   TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.34          CWSEL=   1536.73

 STA=    4963.    5065.
   PER Q=    100.0
    AREA=     92.1
     VEL=      3.7
```

1

PROFILE FOR STREAM CAP FLOODPLAIN-#4 EAST

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION SECNO	1300. CUMDIS		1350.	1400.	1450.	1500.	1550.	1600.	1650.	1700.	1750.
.00	0.	C	IEL	.	.	.	.	.	.	.	.
	100.	C	IELM	.	.	.	.	.	.	.	.
	200.	C	IELM	.	.	.	.	.	.	.	.
	300.	C	ELM	.	.	.	.	.	.	.	.
	400.	C	IE M	.	.	.	.	.	.	.	.
	500.	C	IE M	.	.	.	.	.	.	.	.
.10	600.	C	IE M	.	.	.	.	.	.	.	.
	700.	C	IE M	.	.	.	.	.	.	.	.
	800.	C	IE M	.	.	.	.	.	.	.	.
	900.	C	IEM	.	.	.	.	.	.	.	.
	1000.	C	IEM	.	.	.	.	.	.	.	.
	1100.	C	EM	.	.	.	.	.	.	.	.
	1200.	C	EM	.	.	.	.	.	.	.	.
.23	1300.	C	EM	.	.	.	.	.	.	.	.
	1400.	C	EM	.	.	.	.	.	.	.	.
	1500.	C	EM	.	.	.	.	.	.	.	.
	1600.	C	EM	.	.	.	.	.	.	.	.
	1700.	C	EM	.	.	.	.	.	.	.	.
	1800.	C	EM	.	.	.	.	.	.	.	.
	1900.	C	EM	.	.	.	.	.	.	.	.
	2000.	C	EM	.	.	.	.	.	.	.	.
	2100.	C	EM	.	.	.	.	.	.	.	.
.41	2200.	C	EM	.	.	.	.	.	.	.	.
	2300.	C	EM	.	.	.	.	.	.	.	.
	2400.	C	EM	.	.	.	.	.	.	.	.
	2500.	C	EM	.	.	.	.	.	.	.	.
	2600.	C	EM	.	.	.	.	.	.	.	.
	2700.	C	EM	.	.	.	.	.	.	.	.
	2800.	C	EM	.	.	.	.	.	.	.	.
	2900.	C	EM	.	.	.	.	.	.	.	.
.56	3000.	C	WE	.	.	.	.	.	.	.	.
1.01	3100.	C	IEM	.	.	.	.	.	.	.	.
1.02	3200.	C	IEM	.	.	.	.	.	.	.	.
	3300.	C	IEM	.	.	.	.	.	.	.	.
1.03	3400.	C	IEM	.	.	.	.	.	.	.	.
.65	3500.	.	IEM	.	.	.	.	.	.	.	.
1.01	3600.	C	ILE	.	.	.	.	.	.	.	.
	3700.	C	ILE	.	.	.	.	.	.	.	.
.70	3800.	C	ILE	.	.	.	.	.	.	.	.
.71	3900.	C	.IE	.	.	.	.	.	.	.	.
.76	4000.	C	. EM	.	.	.	.	.	.	.	.
1.01	4100.	C	. EM	.	.	.	.	.	.	.	.
1.02	4200.	C	. EM	.	.	.	.	.	.	.	.
.80	4300.	.	. EM	.	.	.	.	.	.	.	.
.82	4400.	C	. IE	.	.	.	.	.	.	.	.
1.01	4500.	C	. IE	.	.	.	.	.	.	.	.
.89	4600.	C	. IE	.	.	.	.	.	.	.	.
	4700.	C	. IE	.	.	.	.	.	.	.	.
	4800.	C	. IE	.	.	.	.	.	.	.	.
	4900.	C	. IE	.	.	.	.	.	.	.	.
	5000.	C	. E	.	.	.	.	.	.	.	.
	5100.	C	. E	.	.	.	.	.	.	.	.
	5200.	C	. EM	.	.	.	.	.	.	.	.
	5300.	C	WE								

1.02	5400.	.	.	WE	.	.	.	.	.	.	.	.	.
	5500.	C	.	IE	.	.	.	.	.	.	.	.	.
	5600.	C	.	IE	.	.	.	.	.	.	.	.	.
	5700.	C	.	IE	.	.	.	.	.	.	.	.	.
	5800.	C	.	IE	.	.	.	.	.	.	.	.	.
	5900.	C	.	IE	.	.	.	.	.	.	.	.	.
	6000.	C	.	E	.	.	.	.	.	.	.	.	.
	6100.	C	.	E	.	.	.	.	.	.	.	.	.
	6200.	C	.	E	.	.	.	.	.	.	.	.	.
1.19	6300.	C	.	IE	.	.	.	.	.	.	.	.	.
	6400.	C	.	IE	.	.	.	.	.	.	.	.	.
	6500.	C	.	IE	.	.	.	.	.	.	.	.	.
	6600.	C	.	IE	.	.	.	.	.	.	.	.	.
	6700.	C	.	IE	.	.	.	.	.	.	.	.	.
	6800.	C	.	IE	.	.	.	.	.	.	.	.	.
	6900.	C	.	E	.	.	.	.	.	.	.	.	.
	7000.	C	.	ER	.	.	.	.	.	.	.	.	.
	7100.	C	.	ER	.	.	.	.	.	.	.	.	.
1.35	7200.	C	.	ER	.	.	.	.	.	.	.	.	.
	7300.	C	.	ER	.	.	.	.	.	.	.	.	.
	7400.	C	.	IE	.	.	.	.	.	.	.	.	.
	7500.	C	.	IE	.	.	.	.	.	.	.	.	.
	7600.	C	.	IE	.	.	.	.	.	.	.	.	.
	7700.	C	.	IEM	.	.	.	.	.	.	.	.	.
	7800.	C	.	EM	.	.	.	.	.	.	.	.	.
	7900.	C	.	EM	.	.	.	.	.	.	.	.	.
1.50	8000.	C	.	EM	.	.	.	.	.	.	.	.	.
	8100.	C	.	EM	.	.	.	.	.	.	.	.	.
	8200.	C	.	IE	.	.	.	.	.	.	.	.	.
	8300.	C	.	IE	.	.	.	.	.	.	.	.	.
	8400.	C	.	IE	.	.	.	.	.	.	.	.	.
	8500.	C	.	IE	.	.	.	.	.	.	.	.	.
	8600.	C	.	EM	.	.	.	.	.	.	.	.	.
	8700.	C	.	EM	.	.	.	.	.	.	.	.	.
	8800.	C	.	EM	.	.	.	.	.	.	.	.	.
	8900.	C	.	EM	.	.	.	.	.	.	.	.	.
	9000.	C	.	IE	.	.	.	.	.	.	.	.	.
	9100.	C	.	IE	.	.	.	.	.	.	.	.	.
1.73	9200.	C	.	IE	.	.	.	.	.	.	.	.	.
	9300.	C	.	EM.	.	.	.	.	.	.	.	.	.
	9400.	C	.	EM.	.	.	.	.	.	.	.	.	.
	9500.	C	.	EM.	.	.	.	.	.	.	.	.	.
	9600.	C	.	EM.	.	.	.	.	.	.	.	.	.
	9700.	C	.	WE.	.	.	.	.	.	.	.	.	.
	9800.	C	.	IE.	.	.	.	.	.	.	.	.	.
	9900.	C	.	IE.	.	.	.	.	.	.	.	.	.
	10000.	C	.	E.	.	.	.	.	.	.	.	.	.
	10100.	C	.	EM	.	.	.	.	.	.	.	.	.
	10200.	C	.	EM	.	.	.	.	.	.	.	.	.
	10300.	C	.	EM	.	.	.	.	.	.	.	.	.
1.96	10400.	C	.	IE	.	.	.	.	.	.	.	.	.
	10500.	C	.	IE	.	.	.	.	.	.	.	.	.
	10600.	C	.	IE	.	.	.	.	.	.	.	.	.
	10700.	C	.	IE	.	.	.	.	.	.	.	.	.
	10800.	C	.	EM	.	.	.	.	.	.	.	.	.
	10900.	C	.	EM	.	.	.	.	.	.	.	.	.
	11000.	C	.	EM	.	.	.	.	.	.	.	.	.
	11100.	C	.	EM	.	.	.	.	.	.	.	.	.
2.10	11200.	C	.	EM	.	.	.	.	.	.	.	.	.
	11300.	C	.	IE	.	.	.	.	.	.	.	.	.
	11400.	C	.	IE	.	.	.	.	.	.	.	.	.
	11500.	C	.	IE	.	.	.	.	.	.	.	.	.
	11600.	C	.	.E	.	.	.	.	.	.	.	.	.
	11700.	C	.	.EM	.	.	.	.	.	.	.	.	.
	11800.	C	.	.EM	.	.	.	.	.	.	.	.	.
	11900.	C	.	.E									

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     12000. C     .     .IE    .    .    .    .    .    .    .    .
     12100. C     .     .IE    .    .    .    .    .    .    .    .
     12200. C     .     . E    .    .    .    .    .    .    .    .
2.32 12300. C     .     . E    .    .    .    .    .    .    .    .
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     12600. C     .     . IE   .    .    .    .    .    .    .    .
     12700. C     .     . IE   .    .    .    .    .    .    .    .
     12800. C     .     . IE   .    .    .    .    .    .    .    .
     12900. C     .     . E    .    .    .    .    .    .    .    .
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2.48 13200. C     .     . EM   .    .    .    .    .    .    .    .
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1.02 13400. .     .     . IE   .    .    .    .    .    .    .    .
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2.52 13600. C     .     . IE   .    .    .    .    .    .    .    .
2.55 13700. C     .     . IE   .    .    .    .    .    .    .    .
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2.61 14100. C     .     . IEL  .    .    .    .    .    .    .    .
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2.65 14400. C     .     .  EL  .    .    .    .    .    .    .    .
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3.06 16300. C     .     .    IE .   .    .    .    .    .    .    .
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     18000. C     .     .      E    .    .    .    .    .    .    .
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3.42 18500. C     .     .      E
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      21200. C     .     .    . EL  .     .     .     .     .     .     .
      21300. C     .     .    . EL  .     .     .     .     .     .     .
4.03  21400. C     .     .    . WE  .     .     .     .     .     .     .
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      22100. C     .     .    . EL  .     .     .     .     .     .     .
      22200. C     .     .    . EL  .     .     .     .     .     .     .
4.20  22300. C     .     .    . ELM .     .     .     .     .     .     .
      22400. C     .     .    . IEL .     .     .     .     .     .     .
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      24800. C     .     .    . .EM       .     .     .     .     .     .
      24900. C     .     .    . .EM       .     .     .     .     .     .
4.72  25000. C     .     .    . .EL       .     .     .     .     .     .
      25100. C     .     .    . .E        .     .     .     .     .     .
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	25200.	C	.	.	.	.	IE	.	.	.	.	.	.
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	25400.	C	.	.	.	.	IEM	.	.	.	.	.	.
	25500.	C	.	.	.	.	EM	.	.	.	.	.	.
4.94	25600.	C	.	.	.	.	WE	.	.	.	.	.	.
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	25800.	C	.	.	.	.	IE	.	.	.	.	.	.
	25900.	C	.	.	.	.	IEM	.	.	.	.	.	.
	26000.	C	.	.	.	.	EM	.	.	.	.	.	.
	26100.	C	.	.	.	.	IE	.	.	.	.	.	.
4.94	26200.	C	.	.	.	.	IE	.	.	.	.	.	.
	26300.	C	.	.	.	.	IE	.	.	.	.	.	.
	26400.	C	.	.	.	.	IEM	.	.	.	.	.	.
	26500.	C	.	.	.	.	IEM	.	.	.	.	.	.
	26600.	C	.	.	.	.	EM	.	.	.	.	.	.
5.03	26700.	C	.	.	.	.	WE	.	.	.	.	.	.
	26800.	C	.	.	.	.	IE	.	.	.	.	.	.
	26900.	C	.	.	.	.	IE	.	.	.	.	.	.
	27000.	C	.	.	.	.	IEM	.	.	.	.	.	.
5.12	27100.	C	.	.	.	.	EL	.	.	.	.	.	.
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	27400.	C	.	.	.	.	IE	.	.	.	.	.	.
	27500.	C	.	.	.	.	IEM	.	.	.	.	.	.
5.22	27600.	C	.	.	.	.	EM	.	.	.	.	.	.
	27700.	C	.	.	.	.	WE	.	.	.	.	.	.
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5.25	27900.	C	.	.	.	.	IE	.	.	.	.	.	.
	28000.	C	.	.	.	.	IEM	.	.	.	.	.	.
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5.34	28300.	C	.	.	.	.	EL	.	.	.	.	.	.

THIS RUN EXECUTED 05/03/88 15:50:44

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#4 EAST

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	ENDST	DIFWEX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
.000	1757.00	1345.26	4984.50	5531.58	.00	547.08	.00	4.26	1341.00	67.57	3.11
.099	1757.00	1348.60	4980.51	5592.63	3.34	505.69	525.00	4.60	1344.00	62.49	5.19
.235	1757.00	1350.92	4954.53	6483.66	2.32	1529.13	715.00	1.42	1349.50	16.71	1.66
.415	1757.00	1351.68	4731.96	6360.52	.76	1628.56	950.00	1.68	1350.00	4.47	.95
[illegible]	1757.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

*	.652	1757.00	1355.65	4986.30	5041.93	1.77	75.68	430.00	3.65	1352.00	272.04	9.10
*	.705	1757.00	1358.44	4943.45	5202.76	.52	259.31	285.00	6.44	1352.00	79.40	7.06
	.707	1757.00	1358.63	4940.58	5217.12	.19	276.58	10.00	2.63	1356.00	185.15	7.72
	.763	1757.00	1360.75	4672.94	5676.40	2.12	1003.46	215.00	2.25	1358.50	30.82	1.41
*	.801	1757.00	1361.32	4956.00	5044.00	.53	88.00	200.00	2.32	1359.00	71.41	8.66
*	.818	1757.00	1362.57	4956.00	5044.00	1.25	88.00	90.00	3.17	1359.40	24.79	6.32
*	.885	1757.00	1363.71	4414.66	5345.63	.20	930.97	360.00	2.71	1361.00	9.39	1.13
*	1.022	1757.00	1367.33	4717.49	5532.96	3.62	631.46	715.00	2.83	1364.50	208.36	6.98
	1.189	1757.00	1372.79	4753.77	5296.13	5.46	542.36	900.00	3.29	1369.50	26.09	2.24
	1.352	1139.00	1376.50	4787.43	5133.14	3.71	365.71	950.00	2.00	1374.50	93.62	3.23
	1.502	1139.00	1381.36	4661.70	5156.02	4.86	494.32	730.00	2.35	1379.00	42.57	2.93
	1.725	1139.00	1388.73	4643.43	5055.66	7.38	412.23	1190.00	1.72	1387.00	103.34	2.98

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	SECND	Q	CWSEL	SSTA	ENDST	DIFASX	TOPWID	X.CH	DEPTH	ELMIN	10K*S	VCH
	1.956	952.00	1397.69	4721.93	5124.80	8.95	402.95	1220.00	2.19	1395.50	51.02	2.94
	2.102	952.00	1402.12	4835.56	5159.84	4.43	323.87	770.00	2.12	1400.00	63.19	2.71
	2.320	873.00	1411.10	4836.61	5276.14	8.98	439.53	1150.00	2.10	1409.00	103.14	4.12
	2.442	873.00	1416.15	4696.95	5026.87	3.06	329.92	645.00	3.15	1413.00	61.20	3.63
	2.477	873.00	1417.19	4752.15	5041.77	1.04	289.62	135.00	3.19	1414.00	43.73	2.36
*	2.512	784.00	1418.10	4985.03	5015.07	.17	30.04	185.00	3.60	1414.50	23.13	7.23
	2.521	784.00	1419.41	4985.00	5015.10	1.31	30.10	45.00	4.71	1414.70	10.11	5.55
	2.553	784.00	1420.17	4885.78	5306.75	.76	407.67	170.00	4.67	1415.50	22.00	2.81
*	2.587	784.00	1420.14	4985.04	5015.06	.02	30.02	180.00	4.14	1416.00	15.06	6.32
	2.598	784.00	1420.44	4985.04	5015.06	.31	30.02	55.00	4.24	1416.20	13.95	6.17
	2.610	784.00	1420.64	4976.99	5042.49	.20	65.50	65.00	3.64	1417.00	210.44	6.47
	2.621	784.00	1421.24	4972.57	5028.04	.60	55.48	60.00	3.24	1418.00	8.33	4.37
	2.626	784.00	1421.37	4972.56	5028.04	.13	55.49	25.00	3.27	1418.10	9.14	4.34
	2.647	784.00	1421.56	4927.20	5044.27	.19	117.07	110.00	2.56	1419.00	205.55	5.10
	2.684	784.00	1424.62	4785.71	5080.20	3.06	270.00	135.00	3.62	1421.00	96.37	3.87
	2.771	784.00	1428.08	4622.90	5186.15	3.45	566.15	490.00	2.08	1426.00	58.13	2.73
	2.877	784.00	1431.68	4595.33	5316.75	3.61	620.09	560.00	1.68	1430.00	72.95	2.84

3.189	670.00	1443.80	4835.53	5320.39	4.60	664.86	650.00	1.80	1442.00	63.25	2.45
3.303	670.00	1448.19	4897.63	5432.37	4.39	481.56	620.00	1.19	1447.00	86.42	2.45
3.407	340.00	1451.99	4950.70	5380.62	3.80	429.92	550.00	.99	1451.00	45.23	1.38
3.494	340.00	1454.70	4968.64	5410.80	2.71	442.24	450.00	.70	1454.00	80.30	1.62
3.650	340.00	1460.74	4991.43	5168.57	6.04	155.72	820.00	1.74	1459.00	68.59	2.34
3.823	340.00	1468.49	4861.11	5107.15	7.74	201.01	915.00	1.49	1467.00	107.09	2.85
4.034	340.00	1477.38	4974.92	5056.40	8.90	81.86	1115.00	3.38	1474.00	61.97	2.94
4.205	340.00	1481.80	4971.02	5031.74	4.42	60.72	900.00	2.80	1479.00	39.74	2.89

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SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
4.353	340.00	1487.99	4990.40	5024.80	6.19	74.40	795.00	1.99	1486.00	243.36	4.61
4.482	340.00	1497.12	4994.69	5059.30	9.13	104.69	690.00	2.12	1495.00	81.77	2.90
4.615	340.00	1501.34	4993.19	5042.87	4.22	99.69	720.00	2.34	1499.00	46.21	3.03
4.721	340.00	1505.59	4984.15	5093.53	4.25	103.38	590.00	1.59	1504.00	150.78	3.42
4.836	340.00	1512.46	4975.52	5026.71	6.87	51.19	610.00	3.46	1509.00	89.02	4.34
4.940	340.00	1518.05	4984.89	5015.11	5.59	30.23	580.00	3.05	1515.00	126.28	6.21
5.035	340.00	1522.39	4978.06	5020.97	4.34	42.32	500.00	3.35	1519.00	54.06	3.63
5.120	340.00	1525.65	4967.62	5018.25	3.26	50.63	450.00	2.65	1523.00	105.29	4.17
5.215	340.00	1531.49	4978.15	5017.40	5.85	39.32	500.00	3.49	1528.00	134.45	4.95
5.253	340.00	1534.13	4979.23	5025.33	2.64	46.00	370.00	3.12	1531.00	54.21	3.54
5.341	340.00	1536.73	4982.71	5028.20	2.60	65.49	355.00	2.73	1534.00	98.43	3.63

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .652 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .705 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .801 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .818 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= .886 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.022 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.022 PROFILE= 1 PROPOSED MINIMUM POSITIVE ENERGY

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CAUTION  SECNO=     1.022  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=     2.912  PROFILE= 1  INTERPOLATED XSECTIONS USED

CAUTION  SECNO=     2.587  PROFILE= 1  INTERPOLATED XSECTIONS USED
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THIS RUN EXECUTED 05/03/88 15:50:50

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
*************************************************
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INPUT FILE: CAP5EAST

OUTPUT FILE: CAP5EAST.OUT

THIS RUN EXECUTED 11/10/87 14:16:18

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
**************************************************
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T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS  (100 YEAR EVENT)
T3      CAP OVERCHUTE 5-EAST WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .006300     .00       .5    2227.  1322.000     .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000     .000     .000     .000     .000     .000     .000     .000     .000     .000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


    42.000    5.000   26.000     .000     .000     .000     .000     .000     .000     .000
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BASIN

```
NC      .080     .080     .080     .100     .300     .000     .000     .000     .000     .000
X1      .066    10.000 4940.000 5025.000     .000     .000     .000     .000     .000     .000
X2   2227.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1322.000 4610.000 1322.000 4610.000 1322.000 4610.000 1320.000 4940.000 1318.000 5000.000
GR   1320.000 5025.000 1321.000 5115.000 1320.000 5345.000 1322.000 5760.000 1323.000 6100.000
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BASIN

```
X1      .278    11.000 4750.000 5110.000 1080.000 1090.000 1120.000     .000     .000     .000
X2   2195.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1330.000 4590.000 1330.000 4590.000 1333.000 4590.000 1330.000 4590.000 1328.000 4670.000
GR   1328.000 4750.000 1327.000 4915.000 1326.000 5000.000 1328.000 5110.000 1328.500 5280.000
GR   1330.500 5790.000     .000     .000     .000     .000     .000     .000     .000     .000
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BASIN

```
NC      .000     .000     .000     .300     .500     .000     .000     .000     .000     .000
X1      .462     7.000 4970.000 5040.000  910.000 1010.000  970.000     .000     .000     .000
X2   2165.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1338.500 4700.000 1336.000 4770.000 1332.000 4970.000 1331.000 5000.000 1332.000 5040.000
GR   1334.500 5170.000 1336.000 5520.000     .000     .000     .000     .000     .000     .000
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Beardsley CMA

```
NC      .040     .040     .040     .000     .000     .000     .000     .000     .000     .000
X1      .515     5.000 4935.000 5045.000  280.000  280.000  280.000     .000     .000     .000
X2   2135.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1340.000 4935.000 1336.000 4955.000 1334.000 5000.000 1336.000 5020.000 1340.000 5045.000
I
```

NC	.100	.100	.100	.000	.000	.000	.000	.000	.000	.000
X1	.527	5.000	4750.000	5090.000	60.000	60.000	60.000	.000	.000	.000
X2	2135.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1340.500	4750.000	1336.000	4910.000	1334.000	5000.000	1336.000	5020.000	1340.500	5090.000

N. of Beardsley Canal

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	.653	8.000	4560.000	5355.000	670.000	700.000	670.000	.000	.000	.000
X2	2135.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1344.000	4130.000	1340.000	4560.000	1339.500	4800.000	1338.500	5000.000	1339.500	5155.000
GR	1336.000	5280.000	1336.000	5320.000	1342.000	5355.000	.000	.000	.000	.000

X1	.881	8.000	4740.000	5580.000	770.000	1000.000	780.000	.000	.000	.000
X2	2105.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1348.000	4040.000	1347.000	4470.000	1344.000	4740.000	1342.500	5000.000	1344.000	5580.000
GR	1343.500	5640.000	1344.000	5745.000	1344.500	5820.000	.000	.000	.000	.000

NC	.080	.100	.100	.000	.000	.000	.000	.000	.000	.000
X1	.991	6.000	4890.000	5500.000	1050.000	860.000	1000.000	.000	.000	.000
X2	2075.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1352.000	4775.000	1349.000	4890.000	1348.000	4955.000	1348.000	5000.000	1349.000	5500.000
GR	1351.000	5360.000	.000	.000	.000	.000	.000	.000	.000	.000

Happy Valley Rd. Extension

X1	1.208	8.000	4880.000	5090.000	1180.000	970.000	1150.000	.000	.000	.000
X2	2044.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1357.000	4490.000	1356.000	4550.000	1354.000	4880.000	1353.000	5000.000	1354.000	5090.000
GR	1354.000	5370.000	1356.000	5505.000	1356.500	5635.000	.000	.000	.000	.000

X1	1.426	5.000	4820.000	5060.000	1200.000	1150.000	1150.000	.000	.000	.000
X2	2025.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1364.000	4490.000	1360.000	4820.000	1357.000	4950.000	1356.000	5000.000	1363.000	5060.000

NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.725	6.000	4920.000	5060.000	1580.000	1580.000	1580.000	.000	.000	.000
X2	2015.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1370.000	4655.000	1368.000	4920.000	1364.000	4980.000	1363.000	5000.000	1364.000	5035.000
GR	1370.000	5060.000	.000	.000	.000	.000	.000	.000	.000	.000

Just East of 155th Ave Extension

X1	1.962	8.000	4890.000	5040.000	1250.000	1250.000	1250.000	.000	.000	.000
X2	2006.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1373.000	4490.000	1372.000	4620.000	1368.000	4890.000	1368.000	4990.000	1367.500	5000.000
GR	1368.000	5010.000	1372.000	5030.000	1376.000	5040.000	.000	.000	.000	.000

X1	2.061	5.000	4900.000	5040.000	450.000	520.000	520.000	.000	.000	.000
X2	584.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1374.000	4900.000	1372.000	4970.000	1370.000	5000.000	1372.000	5020.000	1376.000	5040.000

X1	2.237	6.000	4930.000	5040.000	900.000	930.000	930.000	.000	.000	.000
X2	550.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1380.000	4670.000	1380.000	4930.000	1376.000	4980.000	1374.000	5000.000	1376.000	5020.000
GR	1380.000	5040.000	.000	.000	.000	.000	.000	.000	.000	.000

1

X1	2.367	5.000	4925.000	5035.000	700.000	690.000	690.000	.000	.000	.000
X2	500.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1384.000	4685.000	1380.000	4925.000	1377.500	5000.000	1380.000	5015.000	1384.000	5035.000

X1	2.549	5.000	4970.000	5055.000	960.000	960.000	960.000	.000	.000	.000
X2	455.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1388.000	4415.000	1384.000	4970.000	1381.000	5000.000	1384.000	5025.000	1385.500	5055.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	2.672	5.000	4990.000	5130.000	650.000	650.000	650.000	.000	.000	.000

X2	396.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1388.000	4810.000	1384.000	4990.000	1382.500	5000.000	1384.000	5015.000	1386.500	5130.000
NC	.030	.030	.020	.000	.000	.000	.000	.000	.000	.000
X1	2.725	4.000	4990.000	5010.000	280.000	280.000	280.000	.000	.000	.000
X2	396.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	10.000	.000	.000	.000	.000	.000	.000	1388.500	1388.500	.000
GR	1388.500	4990.000	1383.000	4990.000	1383.000	5010.000	1388.500	5010.000	.000	.000

SARIVAL AVE (163rd) BRIDGE

SB	1.250	1.600	2.600	.000	20.000	2.000	54.000	.000	1383.200	1383.000
X1	2.738	4.000	4990.000	5010.000	66.000	66.000	66.000	.000	.000	.000
X2	396.000	.000	1.000	1386.000	1388.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1388.500	1388.500	.000
BT	2.000	4990.000	1388.500	1386.000	5010.000	1388.500	1386.000	.000	.000	.000
GR	1388.500	4990.000	1383.200	4990.000	1383.200	5010.000	1388.500	5010.000	.000	.000
X1	2.825	5.000	4970.000	5060.000	460.000	460.000	460.000	.000	.000	.000
X2	380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1391.000	4970.000	1388.000	5000.000	1392.000	5060.000	1391.000	5135.000	1392.000	5175.000
NC	.050	.050	.050	.100	.300	.000	.000	.000	.000	.000
X1	2.885	5.000	4840.000	5120.000	400.000	200.000	320.000	.000	.000	.000
X2	395.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1394.000	4840.000	1392.000	4980.000	1392.000	5010.000	1394.000	5120.000	1395.000	5200.000
X1	3.022	5.000	4970.000	5020.000	670.000	750.000	720.000	.000	.000	.000
X2	390.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1401.000	4930.000	1400.000	4970.000	1396.500	5000.000	1400.000	5020.000	1401.000	5095.000
X1	3.283	5.000	4985.000	5010.000	1380.000	1380.000	1380.000	.000	.000	.000
X2	388.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1412.000	4400.000	1408.000	4985.000	1406.000	5000.000	1409.000	5010.000	1412.000	5395.000
X1	3.554	6.000	4900.000	5015.000	1430.000	1430.000	1430.000	.000	.000	.000
X2	384.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1424.000	4620.000	1420.000	4900.000	1420.000	4990.000	1417.000	5000.000	1420.000	5015.000
GR	1422.000	5115.000	.000	.000	.000	.000	.000	.000	.000	.000

1

JOMAX ROAD (EXTENDED)

X1	3.779	6.000	4985.000	5010.000	1190.000	1190.000	1190.000	.000	.000	.000
X2	381.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1432.000	4270.000	1430.000	4910.000	1428.000	4985.000	1427.000	5000.000	1428.000	5010.000
GR	1430.500	5170.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	3.937	5.000	4960.000	5040.000	800.000	850.000	830.000	.000	.000	.000
X2	379.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1438.500	4740.000	1436.000	4960.000	1435.000	5000.000	1436.000	5040.000	1438.000	5340.000
X1	4.135	3.000	4900.000	5150.000	1070.000	1040.000	1050.000	.000	.000	.000
X2	376.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1447.600	4900.000	1446.000	5000.000	1447.600	5150.000	.000	.000	.000	.000
X1	4.382	6.000	4980.000	5010.000	1320.000	1240.000	1300.000	.000	.000	.000
X2	374.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	1457.000	4850.000	1456.000	4980.000	1454.500	5000.000	1456.000	5010.000	1456.000	5070.000
GR	1458.000	5270.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	4.580	5.000	4980.000	5025.000	1020.000	1060.000	1050.000	.000	.000	.000
X2	371.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1465.500	4910.000	1464.000	4980.000	1461.500	5000.000	1464.000	5025.000	1465.500	5185.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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X2    369.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1474.000   4790.000   1472.000   4985.000   1471.000   5000.000   1472.000   5015.000   1474.500   5150.000
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DYNAMITE Blvd.

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X1      4.984     5.000   4940.000   5040.000   1030.000   1030.000   1030.000      .000      .000      .000
X2    366.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1484.000   4660.000   1483.000   4940.000   1480.000   5000.000   1483.000   5040.000   1483.500   5120.000

X1      5.124     5.000   4975.000   5030.000    790.000    660.000    740.000      .000      .000      .000
X2    364.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1492.000   4855.000   1488.000   4975.000   1485.500   5000.000   1488.000   5030.000   1491.000   5140.000

NC       .000      .000      .050      .000      .000      .000      .000      .000      .000      .000
X1      5.317     5.000   4985.000   5205.000   1040.000   1020.000   1020.000      .000      .000      .000
X2    361.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1496.000   4380.000   1493.500   4870.000   1492.000   4985.000   1491.000   5000.000   1495.500   5205.000

X1      5.497     4.000   4900.000   5250.000    820.000    950.000    950.000      .000      .000      .000
X2    359.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1496.000   4720.000   1495.000   4900.000   1493.500   5000.000   1495.500   5250.000      .000      .000

X1      5.781     5.000   4945.000   5040.000   1400.000   1580.000   1500.000      .000      .000      .000
X2    354.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1504.000   4690.000   1502.000   4945.000   1501.000   5000.000   1504.000   5040.000   1506.000   5060.000
1
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X1      6.016     5.000   4980.000   5020.000   1190.000   1260.000   1240.000      .000      .000      .000
X2    351.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1515.000   4530.000   1512.000   4980.000   1510.000   5000.000   1512.000   5020.000   1515.500   5190.000

X1      6.334     6.000   4970.000   5010.000   1680.000   1690.000   1690.000      .000      .000      .000
X2    349.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1530.000   4660.000   1529.000   4850.000   1528.000   4970.000   1526.000   5000.000   1528.000   5010.000
GR   1528.500   5070.000      .000      .000      .000      .000      .000      .000      .000      .000
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— CAP2WEST OVERCHOTE —

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X1      6.524     6.000   4910.000   5030.000   1000.000   1000.000   1000.000      .000      .000      .000
X2    346.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1540.000   4600.000   1539.000   4910.000   1537.000   5000.000   1539.000   5030.000   1539.000   5430.000
GR   1542.000   5750.000      .000      .000      .000      .000      .000      .000      .000      .000
EJ       .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IOC      ICONT    CORAR    TOPWID   ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .066
     .07     3.79  1321.79      .00  1322.00  1321.85      .07      .00      .00  1320.00
    2227.     361.     693.    1173.     263.     237.     742.       0.       0.  1320.00
     .00     1.37     2.93     1.58     .000     .000     .000     .000  1318.00  4645.43
  .006348       0.       0.       0.        0        0        6      .00  1070.02  5715.45
0
*SECNO  .278
     .28     3.12  1329.12      .00      .00  1329.20      .08     7.34      .00  1328.00
    2195.     175.    1778.     242.     114.     722.     196.     29.      24.  1328.00
     .14     1.53     2.46     1.23     .000     .000     .000     .000  1326.00  4625.36
  .006268     1000     1120     1000        5        0        0      .00   911.75  5637.10
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```
0
 CCHV=    .300 CEHV=    .500
 *SECNO  .462
      .46     4.31  1335.31      .00      .00  1335.43      .12     6.21      .02  1332.00
    2165.     550.     932.     683.     275.     267.     346.      50.      39.   1332.00
      .24     2.00     3.49     1.98     .090     .090     .080     .000  1331.00  4804.27
  .005927     910.     970.    1010.        4        0        0      .00   555.80  5360.07
0
 *SECNO  .515

 1645 INT SEC ADDED BY RAISING SEC       .51,  -2.250FT AND MULTIPLYING BY   1.066


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.01     4.05  1335.80  1335.80      .00  1337.09     1.29      .66      .59  1337.75
    2158.       0.    2157.       0.       0.     237.       0.      51.      39.   1337.75
      .24      .00     9.11      .00     .040     .040     .040     .000  1331.75  4945.38
  .017650      70.      70.      70.       20       11        0      .00    93.89  5039.26
0
1
 11/10/87    14:16:18                                                                    PAGE    7


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .750FT AND MULTIPLYING BY    .979


 3301 HV CHANGED MORE THAN HVINS

     1.02     4.79  1337.29      .00      .00  1338.08      .79      .83      .15  1338.50
    2150.       0.    2150.       0.       0.     302.       0.      51.      40.   1338.50
      .24      .00     7.12      .00     .040     .040     .040     .000  1332.50  4941.37
  .008548      70.      70.      70.        3        0        0      .00   100.50  5041.87
0

 1645 INT SEC ADDED BY RAISING SEC      1.02,    .750FT AND MULTIPLYING BY    .979

     1.03     4.63  1337.88      .00      .00  1338.78      .90      .65      .06  1339.25
    2143.       0.    2142.       0.       0.     281.       0.      52.      40.   1339.25
      .25      .00     7.62      .00     .040     .040     .040     .000  1333.25  4941.98
  .010202      70.      70.      70.        2        0        0      .00    96.72  5038.69
0

 1645 INT SEC ADDED BY RAISING SEC      1.03,    .750FT AND MULTIPLYING BY    .979

      .51     4.60  1338.60      .00      .00  1339.56      .96      .74      .03  1340.00
    2135.       0.    2135.       0.       0.     272.       0.      52.      40.   1340.00
      .25      .00     7.86      .00     .040     .040     .040     .000  1334.00  4942.02
  .011000      70.      70.      70.        2        0        0      .00    94.20  5036.22
0
 *SECNO  .527

 1645 INT SEC ADDED BY RAISING SEC       .53,    .000FT AND MULTIPLYING BY    .739


 3301 HV CHANGED MORE THAN HVINS
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     1.01     5.96  1339.96      .00      .00  1340.11      .14      .31      .24  1340.50
    2135.       0.    2135.       0.       0.     700.       0.      53.      40.   1340.50
      .25      .00     3.05      .00     .100     .100     .100     .000  1334.00  4764.17
  .009636      30.      30.      30.        3        0        0      .00   230.97  4995.14
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .000FT AND MULTIPLYING BY   1.353

      .53     6.25  1340.25      .00      .00  1340.31      .07      .18      .02  1340.50
    2135.       0.    2135.       0.       0.    1038.       0.      53.      40.   1340.50
      .26      .00     2.06      .00     .100     .100     .100     .000  1334.00  4759.01
  .004113      30.      30.      30.        2        0        0      .00   327.04  5086.06
0
 CCHV=    .100 CEHV=    .300
 *SECNO  .653
      .65     5.59  1341.59      .00      .00  1341.60      .01     1.29      .01  1340.00
    2135.      58.    2077.       0.     136.    2156.       0.      79.      50.   1342.00
      .45      .42      .96      .00     .100     .100     .100     .000  1336.00  4389.03
  .001100     670.     670.     700.        3        0        0      .00   963.58  5352.61
0
 *SECNO  .801
      .80     1.59  1344.09      .00      .00  1344.21      .12     2.57      .03  1344.00
    2105.       0.    2015.      90.       0.     712.      58.     106.      68.   1344.00
      .53      .42     2.83     1.55     .100     .100     .100     .000  1342.50  4731.25
  .045298     770.     780.    1000.        4        0        0      .00  1028.32  5759.50
0
 *SECNO  .991
      .99     2.75  1350.75      .00      .00  1350.77      .02     6.55      .01  1349.00
    2075.      49.    1789.     237.      58.    1390.     349.     135.      92.   1349.00
      .76      .85     1.29      .68     .080     .100     .100     .000  1348.00  4823.22
  .002501    1050.    1000.     860.        5        0        0      .00  1077.45  5900.67
0
 *SECNO 1.209
     1.21     2.47  1355.47      .00      .00  1355.53      .06     4.75      .01  1354.00
    2044.     262.     932.     850.     180.     415.     487.     172.     115.   1354.00
      .92     1.46     2.25     1.75     .080     .100     .100     .000  1353.00  4636.37
  .003206    1180.    1150.     970.        3        0        0      .00   833.30  5469.67
0
 *SECNO 1.426
     1.43     5.89  1361.89      .00      .00  1361.96      .07     6.42      .00  1360.00
    2025.     160.    1865.       0.     147.     859.       0.     199.     132.   1363.00
     1.07     1.09     2.17      .00     .080     .100     .100     .000  1356.00  4664.15
  .003706    1200.    1150.    1150.        5        0        0      .00   386.32  5050.48
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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*SECNO 1.726

```
     1.73     5.31  1368.31      .00      .00  1368.63      .32     6.60      .08  1368.00
    2015.       3.     2012.       0.       7.     442.       0.     226.     142.   1370.00
     1.17      .43      4.55      .00     .070     .050     .070     .000  1363.00  4878.30
  .004745    1580.     1580.    1580.        3        0        0      .00   174.68  5052.98
0
 *SECNO 1.962
     1.96     4.29  1371.79      .00      .00  1371.88      .09     3.22      .02  1368.00
    2006.      631.     1375.       0.     484.     495.       0.     246.     150.   1376.00
     1.32     1.30      2.78      .00     .070     .050     .070     .000  1367.50  4634.49
  .001612    1250.     1250.    1250.        4        0        0      .00   394.44  5028.93
0
 *SECNO 2.061

 1645 INT SEC ADDED BY RAISING SEC      2.06,  -1.250FT AND MULTIPLYING BY   1.426

     1.01     3.58  1372.33      .00      .00  1372.73      .40      .76      .09  1372.75
    1295.       0.     1295.       0.       0.     256.       0.     250.     152.   1374.75
     1.33      .00      5.05      .00     .070     .050     .070     .000  1368.75  4920.59
  .015684     225.      260.     260.        3        0        0      .00   161.82  5082.41
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.250FT AND MULTIPLYING BY    .701

 3280 CROSS SECTION      2.06 EXTENDED       .34 FEET

     2.06     4.34  1374.34      .00      .00  1374.41      .07     1.65      .03  1374.00
     584.       0.      584.       0.       0.     274.       0.     251.     153.   1376.00
     1.36      .00      2.13      .00     .070     .050     .070     .000  1370.00  4900.00
  .001944     225.      260.     260.        3        0        0      .00   131.69  5031.69
0
 *SECNO 2.237
     2.24     3.57  1377.57      .00      .00  1377.67      .30     3.39      .07  1380.00
     550.       0.      550.       0.       0.     125.       0.     256.     155.   1380.00
     1.42      .00      4.42      .00     .070     .050     .070     .000  1374.00  4960.35
  .003847     930.      930.     930.        2        0        0      .00    67.51  5027.86
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 2.367
     2.37     3.43  1380.93      .00      .00  1381.01      .09     3.12      .02  1380.00
     500.      22.      478.       0.      35.     198.       0.     258.     157.   1384.00
     1.50      .63      2.41      .00     .070     .050     .070     .000  1377.50  4850.61
  .002464     700.      690.     690.        3        0        0      .00   169.04  5019.65
0
 *SECNO 2.549
     2.55     3.57  1384.57      .00      .00  1384.78      .21     3.73      .04  1384.00
     455.      18.      437.       0.      22.     117.       0.     263.     160.   1385.50
     1.58      .79      3.74      .00     .070     .050     .070     .000  1381.00  4891.36
  .007498     960.      960.     960.        2        0        0      .00   144.98  5036.34

 CHV=    .300 CEHV=    .500
 *SECNO 2.672
     2.67     3.93  1386.43      .00      .00  1386.45      .02     1.62      .06  1384.00
     396.     107.      289.       0.     132.     215.       0.     266.     163.   1386.50
     1.73      .81      1.35      .00     .070     .050     .070     .000  1382.50  4880.89
  .001126     650.      650.     650.        3        0        0      .00   245.64  5126.53
0
 *SECNO 2.725
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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1388.50 ELREA=     1388.50

     2.72     3.57  1386.57      .00      .00  1387.05      .48      .37      .23  1388.50
     396.       0.     396.       0.       0.      71.       0.     267.     164.   1388.50
     1.74      .00     5.55      .00     .030     .020     .030     .000  1383.00  4990.00
  .001536     280.     280.     280.        2        0        0      .00    20.00  5010.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.60      2.60       .00     20.00      2.00     54.00      .00   1383.20   1383.00

*SECNO 2.738
PRESSURE FLOW

1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         GLOB      GCH       GROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 ESPRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC      ELTRD
                                                              AREA
   1387.90   1387.28      .24        0.      396.       54.       50.     1386.00   1388.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1388.50 ELREA=     1388.50

     2.74     4.39  1387.59      .00      .00  1387.90      .32      .86      .00  1388.50
     396.       0.     396.       0.       0.      88.       0.     268.     164.   1388.50
     1.75      .00     4.51      .00     .000     .020     .000     .000  1383.20  4990.00
   .000833     66.      66.      66.        2        0        0      .00    20.00  5010.00
0
*SECNO 2.825
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.83     2.25  1390.25  1390.25      .00  1390.81      .56      .78      .12  1391.00
     380.       0.     380.       0.       0.      63.       0.     268.     164.   1392.00
     1.77      .00     6.01      .00     .030     .020     .030     .000  1388.00  4977.51
   .005617    460.     460.     460.       20        8        0      .00    56.23  5033.74
0
CCHV=    .100 CEHV=    .300
*SECNO 2.885
     2.88     1.31  1393.31      .00      .00  1393.42      .11     2.57      .04  1394.00
     395.       0.     395.       0.       0.     146.       0.     269.     165.   1394.00
     1.80      .00     2.71      .00     .050     .050     .050     .000  1392.00  4888.63
   .012136    400.     320.     200.        4        0        0      .00   193.16  5081.79
0
*SECNO 3.022

1645 INT SEC ADDED BY RAISING SEC      3.02,  -3.375FT AND MULTIPLYING BY   9.222

     1.01     1.71  1394.83      .00      .00  1394.90      .07     1.47      .00  1396.63
     394.       0.     394.       0.       0.     192.       0.     270.     166.   1396.63
     1.83      .00     2.05      .00     .050     .050     .050     .000  1393.13  5440.58
   .005876    168.     180.     180.        4        0        0      .00   224.96  5665.54
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1645 INT SEC ADDED BY RAISING SEC      1.01,   1.125FT AND MULTIPLYING BY    .703

     1.02     1.81  1396.06      .00      .00  1396.17      .10     1.26      .01  1397.75
     393.       0.     392.       0.       0.     153.       0.     271.     167.   1397.75
     1.94      .00     2.57      .00     .050     .050     .050     .000  1394.25  5282.74
  .000478     168.     180.     188.        2        0        0      .00   168.28  5451.02
0

1645 INT SEC ADDED BY RAISING SEC      1.02,   1.125FT AND MULTIPLYING BY    .577

     1.03     2.22  1397.59      .00      .00  1397.73      .14     1.55      .01  1398.88
     391.       0.     391.       0.       0.     131.       0.     271.     167.   1398.88
     1.86      .00     2.98      .00     .050     .050     .050     .000  1395.38  5120.81
  .008795     168.     180.     188.        3        0        0      .00   118.41  5239.21
0

1645 INT SEC ADDED BY RAISING SEC      1.03,   1.125FT AND MULTIPLYING BY    .267

     3.02     3.13  1399.63      .00      .00  1400.11      .48     2.28      .10  1400.00
     390.       0.     390.       0.       0.      70.       0.     272.     168.   1400.00
     1.87      .00     5.58      .00     .050     .050     .050     .000  1396.50  4973.20
  .019726     168.     180.     188.        3        0        0      .00    44.67  5017.87
0
 *SECNO 3.283
     3.28     3.23  1409.23      .00      .00  1409.30      .07     9.15      .04  1408.00
     388.     137.     161.      90.     111.      56.      73.     276.     174.   1408.00
     2.07     1.23     2.88     1.23     .050     .050     .050     .000  1406.00  4804.65
  .003275    1380.    1380.    1380.        7        0        0      .00   324.04  5128.69
0
 *SECNO 3.554
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     3.55     3.38  1420.38  1420.38      .00  1420.69      .31    11.09      .07  1420.00
     384.      10.     368.       7.       5.      81.       4.     282.     182.   1420.00
     2.16     1.90     4.53     1.90     .050     .050     .050     .000  1417.00  4873.44
  .037332    1430.    1430.    1430.        4        9        0      .00   160.53  5033.97
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.779
     3.78     2.71  1429.71      .00      .00  1429.79      .07     9.07      .02  1428.00
     381.      83.     157.     141.      55.      55.      94.     286.     186.   1428.00
     2.32     1.51     2.83     1.51     .050     .050     .050     .000  1427.00  4920.78
  .003164    1190.    1190.    1190.        6        0        0      .00   198.82  5119.60
0
 *SECNO 3.937
 7185 MINIMUM SPECIFIC ENERGY
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3720 CRITICAL DEPTH ASSUMED
     3.94     1.42  1436.42  1436.42     .00  1436.73     .30     5.81     .07  1436.00
     379.      14.     342.      23.      8.     74.      13.     289.     190.  1436.00
     2.37     1.73     4.62     1.73    .050    .050    .050    .000  1435.00  4922.68
   .026916    800.     830.     850.       3      11       0     .00   180.93  5103.61
0
 SECNO 4.135
     4.14     1.60  1447.60      .00     .00  1447.65     .06    10.30     .02  1447.60
     376.       0.     376.       0.      0.     199.      0.     232.     195.  1447.60
     2.53      .00     1.89      .00    .050    .050    .050    .000  1446.00  4900.15
   .005433   1070.    1050.    1040.       5       0       0     .00   249.62  5149.77
0
 *SECNO 4.382
     4.38     2.24  1456.74      .00     .00  1456.88     .14     9.20     .02  1456.00
     374.      54.     171.     149.     36.     45.     72.     298.     203.  1456.00
     2.66     1.52     3.83     2.07    .050    .050    .050    .000  1454.50  4883.69
   .009803   1320.    1300.    1240.       4       0       0     .00   260.39  5144.08
0
 *SECNO 4.580
     4.58     3.22  1464.72      .00     .00  1464.91     .18     8.02     .01  1464.00
     371.      14.     323.      33.     12.     89.     28.     301.     208.  1464.00
     2.75     1.18     3.64     1.18    .050    .050    .050    .000  1461.50  4946.19
   .006107   1020.    1050.    1060.       4       0       0     .00   156.11  5102.29
0
 *SECNO 4.789
     4.79     2.17  1473.17      .00     .00  1473.34     .18     8.44     .00  1472.00
     369.     101.     213.      56.     67.     50.     37.     304.     212.  1472.00
     2.84     1.51     4.25     1.51    .070    .050    .070    .000  1471.00  4871.03
   .010353   1020.    1100.    1040.       5       0       0     .00   207.10  5078.12
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EB       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 4.984
     4.98     2.62  1482.62      .00     .00  1482.78     .16     9.43     .00  1483.00
     366.       0.     366.       0.      0.     114.      0.     308.     216.  1483.00
     2.93      .00     3.21      .00    .070    .050    .070    .000  1480.00  4947.65
   .008148   1030.    1030.    1030.       5       0       0     .00    87.24  5034.30
0
 *SECNO 5.124
     5.12     2.98  1488.48      .00     .00  1488.70     .22     5.90     .02  1488.00
     364.       2.     358.       3.      3.      95.      4.     309.     217.  1488.00
     2.99      .72     3.77      .72    .070    .050    .070    .000  1485.50  4960.66
   .007809    790.     740.     660.       5       0       0     .00    86.88  5047.53
0
 *SECNO 5.317
     5.32     2.38  1493.38      .00     .00  1493.43     .05     4.72     .02  1492.00
     361.      58.     303.       0.     73.     157.      0.     313.     221.  1495.50
     3.15      .80     1.92      .00    .080    .050    .080    .000  1491.00  4879.19
   .003039   1040.    1020.    1020.       5       0       0     .00   229.24  5108.43

 SECNO 5.497
     5.50     1.84  1495.34      .00     .00  1495.36     .02     1.93     .00  1495.00
     359.       2.     357.       0.     10.     319.      0.     319.     227.  1495.50
     3.38      .22     1.12      .00    .080    .050    .080    .000  1493.50  4839.69
   .001479    820.     950.     950.       4       0       0     .00   389.70  5229.39
0
 *SECNO 5.781
3685 30.781QLO ATTEMPTED WSEL CWSEL
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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     5.78     1.47  1502.47  1502.47      .00  1502.83      .37     5.95      .10  1502.00
     354.      17.     337.      0.      14.      67.       0.     326.     236.   1504.00
     3.47     1.26     4.99     .00     .080     .050     .080     .000  1501.00  4885.59
   .032234    1400.    1500.    1500.      20       15        0      .00   133.95  5019.55

*SECNO 6.016
     6.02     3.12  1513.12      .00      .00  1513.23      .10    10.37      .03  1512.00
     351.      73.     254.      24.      94.      85.      30.     330.     242.   1512.00
     3.61      .77     3.00      .77     .080     .050     .080     .000  1510.00  4811.93
   .003765    1190.    1240.    1260.       6        0        0      .00   262.50  5074.42
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 6.334

1645 INT SEC ADDED BY RAISING SEC      6.33,  -0.000FT AND MULTIPLYING BY    .999

3280 CROSS SECTION      1.01 EXTENDED       .01 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.01     2.51  1520.51  1520.51      .00  1520.90      .40     5.99      .09  1520.00
     350.      16.     318.      16.      15.      60.      15.     333.     246.   1520.00
     3.66     1.01     5.28     1.02     .080     .050     .080     .000  1519.00  4908.73
   .018432     840.     840.     840.       6       15        0      .00   160.84  5069.58
0

1645 INT SEC ADDED BY RAISING SEC      1.01,   0.000FT AND MULTIPLYING BY   1.001

3280 CROSS SECTION      6.33 EXTENDED       .40 FEET

     6.33     2.90  1528.90      .00      .00  1529.05      .15     8.12      .02  1528.00
     349.      41.     266.      42.      49.      76.      39.     336.     249.   1528.00
     3.74      .84     3.50     1.07     .080     .050     .080     .000  1526.00  4861.82
   .005935     840.     840.     840.       6        0        0      .00   208.18  5070.00
0
*SECNO 6.524
     6.52     1.74  1538.74      .00      .00  1538.97      .23     9.89      .02  1539.00
     346.       0.     346.       0.       0.      91.       0.     339.     253.   1539.00
     3.82      .00     3.81      .00     .080     .050     .080     .000  1537.00  4921.71
   .019816    1000.    1000.    1000.       4        0        0      .00   104.38  5026.10
0
1
PROFILE FOR STREAM  CAP OVERCHUTE 5-EAST WAS


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1300.     1350.     1400.     1450.     1500.     1550.     1600.     1650.     1700.     1750.
    SECNO   CUMDIS

     .07      0.  C  E   .         .         .         .         .         .         .         .         .
             100.  C  WE  .         .         .         .         .         .         .         .         .
             200.  C  IE
```

	300.	C	IE	.	.	.	.	.	.	.	.	.	.
	400.	C	IE	.	.	.	.	.	.	.	.	.	.
	500.	C	IE	.	.	.	.	.	.	.	.	.	.
	600.	C	IE	.	.	.	.	.	.	.	.	.	.
	700.	C	E	.	.	.	.	.	.	.	.	.	.
	800.	C	EM	.	.	.	.	.	.	.	.	.	.
	900.	C	IE	.	.	.	.	.	.	.	.	.	.
	1000.	C	IE	.	.	.	.	.	.	.	.	.	.
	1100.	C	IE	.	.	.	.	.	.	.	.	.	.
.29	1200.	C	IE	.	.	.	.	.	.	.	.	.	.
	1300.	C	IE	.	.	.	.	.	.	.	.	.	.
	1400.	C	IE	.	.	.	.	.	.	.	.	.	.
	1500.	C	E	.	.	.	.	.	.	.	.	.	.
	1600.	C	E	.	.	.	.	.	.	.	.	.	.
	1700.	C	EM	.	.	.	.	.	.	.	.	.	.
	1800.	C	IE	.	.	.	.	.	.	.	.	.	.
	1900.	C	IE	.	.	.	.	.	.	.	.	.	.
	2000.	C	IE	.	.	.	.	.	.	.	.	.	.
.46	2100.	C	IE	.	.	.	.	.	.	.	.	.	.
1.01	2200.	.	IEL	.	.	.	.	.	.	.	.	.	.
1.02	2300.	C	WE	.	.	.	.	.	.	.	.	.	.
1.03	2400.	C	IE	.	.	.	.	.	.	.	.	.	.
.51	2500.	C	IE	.	.	.	.	.	.	.	.	.	.
1.01	2600.	C	IE	.	.	.	.	.	.	.	.	.	.
.53	2700.	C	IE	.	.	.	.	.	.	.	.	.	.
	2800.	C	IE	.	.	.	.	.	.	.	.	.	.
	2900.	C	IE	.	.	.	.	.	.	.	.	.	.
	3000.	C	IE	.	.	.	.	.	.	.	.	.	.
.65	3100.	C	IE	.	.	.	.	.	.	.	.	.	.
	3200.	C	IE	.	.	.	.	.	.	.	.	.	.
	3300.	C	ER	.	.	.	.	.	.	.	.	.	.
	3400.	C	IE	.	.	.	.	.	.	.	.	.	.
	3500.	C	IE	.	.	.	.	.	.	.	.	.	.
	3600.	C	IE	.	.	.	.	.	.	.	.	.	.
	3700.	C	IE	.	.	.	.	.	.	.	.	.	.
	3800.	C	IE	.	.	.	.	.	.	.	.	.	.
.80	3900.	C	E	.	.	.	.	.	.	.	.	.	.
	4000.	C	E	.	.	.	.	.	.	.	.	.	.
	4100.	C	E	.	.	.	.	.	.	.	.	.	.
	4200.	C	E	.	.	.	.	.	.	.	.	.	.
	4300.	C	E	.	.	.	.	.	.	.	.	.	.
	4400.	C	EM	.	.	.	.	.	.	.	.	.	.
	4500.	C	IE	.	.	.	.	.	.	.	.	.	.
	4600.	C	IE	.	.	.	.	.	.	.	.	.	.
	4700.	C	IE	.	.	.	.	.	.	.	.	.	.
	4800.	C	IE	.	.	.	.	.	.	.	.	.	.
.99	4900.	C	E	.	.	.	.	.	.	.	.	.	.
	5000.	C	E	.	.	.	.	.	.	.	.	.	.
	5100.	C	E	.	.	.	.	.	.	.	.	.	.
	5200.	C	E	.	.	.	.	.	.	.	.	.	.
	5300.	C	EM	.	.	.	.	.	.	.	.	.	.
	5400.	C	IE	.	.	.	.	.	.	.	.	.	.
	5500.	C	IE	.	.	.	.	.	.	.	.	.	.
	5600.	C	IE	.	.	.	.	.	.	.	.	.	.
	5700.	C	IE	.	.	.	.	.	.	.	.	.	.
	5800.	C	IE	.	.	.	.	.	.	.	.	.	.
	5900.	C	IE	.	.	.	.	.	.	.	.	.	.
	6000.	C	.E	.	.	.	.	.	.	.	.	.	.
1.21	6100.	C	.E	.	.	.	.	.	.	.	.	.	.
	6200.	C	.E	.	.	.	.	.	.	.	.	.	.
	6300.	C	.EM	.	.	.	.	.	.	.	.	.	.
	6400.	C	.EM	.	.	.	.	.	.	.	.	.	.
	6500.	C	.IE	.	.	.	.	.	.	.	.	.	.
	6600.	C	.IE	.	.	.	.	.	.	.	.	.	.
	6700.	C	.IE	.	.	.	.	.	.	.	.	.	.
	6800.	C	.IE										

	6900.	C	.IE	.	.	.	.	.	.	.	.	.	.
	7000.	C	.IE	.	.	.	.	.	.	.	.	.	.
	7100.	C	.IE	.	.	.	.	.	.	.	.	.	.
1.43	7200.	C	.IER	.	.	.	.	.	.	.	.	.	.
	7300.	C	.IER	.	.	.	.	.	.	.	.	.	.
	7400.	C	.ILE	.	.	.	.	.	.	.	.	.	.
	7500.	C	.ILE	.	.	.	.	.	.	.	.	.	.
	7600.	C	. IE	.	.	.	.	.	.	.	.	.	.
	7700.	C	. IE	.	.	.	.	.	.	.	.	.	.
	7800.	C	. IE	.	.	.	.	.	.	.	.	.	.
	7900.	C	. IE	.	.	.	.	.	.	.	.	.	.
	8000.	C	. IE	.	.	.	.	.	.	.	.	.	.
	8100.	C	. IE	.	.	.	.	.	.	.	.	.	.
	8200.	C	. IE	.	.	.	.	.	.	.	.	.	.
	8300.	C	. IER	.	.	.	.	.	.	.	.	.	.
	8400.	C	. IER	.	.	.	.	.	.	.	.	.	.
	8500.	C	. IER	.	.	.	.	.	.	.	.	.	.
	8600.	C	. ILE	.	.	.	.	.	.	.	.	.	.
	8700.	C	. IE	.	.	.	.	.	.	.	.	.	.
1.73	8800.	C	. IE	.	.	.	.	.	.	.	.	.	.
	8900.	C	. IE	.	.	.	.	.	.	.	.	.	.
	9000.	C	. IE	.	.	.	.	.	.	.	.	.	.
	9100.	C	. IE	.	.	.	.	.	.	.	.	.	.
	9200.	C	. IE	.	.	.	.	.	.	.	.	.	.
	9300.	C	. IE	.	.	.	.	.	.	.	.	.	.
	9400.	C	. IER	.	.	.	.	.	.	.	.	.	.
	9500.	C	. IER	.	.	.	.	.	.	.	.	.	.
	9600.	C	. IER	.	.	.	.	.	.	.	.	.	.
	9700.	C	. IER	.	.	.	.	.	.	.	.	.	.
	9800.	C	. IER	.	.	.	.	.	.	.	.	.	.
	9900.	C	. IER	.	.	.	.	.	.	.	.	.	.
	10000.	C	. IER	.	.	.	.	.	.	.	.	.	.
1.96	10100.	C	. ER	.	.	.	.	.	.	.	.	.	.
	10200.	C	. ER	.	.	.	.	.	.	.	.	.	.
1.01	10300.	C	. WE	.	.	.	.	.	.	.	.	.	.
	10400.	C	. IE	.	.	.	.	.	.	.	.	.	.
	10500.	C	. IE	.	.	.	.	.	.	.	.	.	.
2.06	10600.	C	. IE	.	.	.	.	.	.	.	.	.	.
	10700.	C	. IE	.	.	.	.	.	.	.	.	.	.
	10800.	C	. IE	.	.	.	.	.	.	.	.	.	.
	10900.	C	. IE	.	.	.	.	.	.	.	.	.	.
	11000.	C	. IER	.	.	.	.	.	.	.	.	.	.
	11100.	C	. IER	.	.	.	.	.	.	.	.	.	.
	11200.	C	. EL	.	.	.	.	.	.	.	.	.	.
	11300.	C	. EL	.	.	.	.	.	.	.	.	.	.
	11400.	C	. EL	.	.	.	.	.	.	.	.	.	.
2.24	11500.	C	. IE	.	.	.	.	.	.	.	.	.	.
	11600.	C	. IE	.	.	.	.	.	.	.	.	.	.
	11700.	C	. IE	.	.	.	.	.	.	.	.	.	.
	11800.	C	. IE	.	.	.	.	.	.	.	.	.	.
	11900.	C	. IE	.	.	.	.	.	.	.	.	.	.
	12000.	C	. IER	.	.	.	.	.	.	.	.	.	.
	12100.	C	. IER	.	.	.	.	.	.	.	.	.	.
2.37	12200.	C	. ER	.	.	.	.	.	.	.	.	.	.
	12300.	C	. ER	.	.	.	.	.	.	.	.	.	.
	12400.	C	. ER	.	.	.	.	.	.	.	.	.	.
	12500.	C	. ER	.	.	.	.	.	.	.	.	.	.
	12600.	C	. WE	.	.	.	.	.	.	.	.	.	.
	12700.	C	. IE	.	.	.	.	.	.	.	.	.	.
	12800.	C	. IE	.	.	.	.	.	.	.	.	.	.
	12900.	C	. IE	.	.	.	.	.	.	.	.	.	.
	13000.	C	. IE	.	.	.	.	.	.	.	.	.	.
	13100.	C	. IE	.	.	.	.	.	.	.	.	.	.
2.55	13200.	C	. IE	.	.	.	.	.	.	.	.	.	.
	13300.	C	. IE	.	.	.	.	.	.	.	.	.	.
	13400.	C	. IE										

	13500.	C	.	IE	.	.	.	.	.	.	.	.	.
	13600.	C	.	IE	.	.	.	.	.	.	.	.	.
	13700.	C	.	IE	.	.	.	.	.	.	.	.	.
2.67	13800.	C	.	E	.	.	.	.	.	.	.	.	.
	13900.	C	.	E	.	.	.	.	.	.	.	.	.
	14000.	C	.	ER	.	.	.	.	.	.	.	.	.
2.72	14100.	C	.	EL	.	.	.	.	.	.	.	.	.
2.74	14200.	C	.	IE	.	.	.	.	.	.	.	.	.
	14300.	C	.	IE	.	.	.	.	.	.	.	.	.
	14400.	C	.	IE	.	.	.	.	.	.	.	.	.
	14500.	C	.	IE	.	.	.	.	.	.	.	.	.
2.83	14600.	.	.	E	.	.	.	.	.	.	.	.	.
	14700.	C	.	ER.		.	.	.	.	.	.	.	.
	14800.	C	.	EL.		.	.	.	.	.	.	.	.
2.88	14900.	C	.	IE.		.	.	.	.	.	.	.	.
	15000.	C	.	E.		.	.	.	.	.	.	.	.
1.01	15100.	C	.	EM		.	.	.	.	.	.	.	.
	15200.	C	.	EM		.	.	.	.	.	.	.	.
1.02	15300.	C	.	EL		.	.	.	.	.	.	.	.
	15400.	C	.	EL		.	.	.	.	.	.	.	.
1.03	15500.	C	.	IE		.	.	.	.	.	.	.	.
	15600.	C	.	IE		.	.	.	.	.	.	.	.
3.02	15700.	C	.	IE		.	.	.	.	.	.	.	.
	15800.	C	.	IE		.	.	.	.	.	.	.	.
	15900.	C	.	EM		.	.	.	.	.	.	.	.
	16000.	C	.	EM		.	.	.	.	.	.	.	.
	16100.	C	.	WE		.	.	.	.	.	.	.	.
	16200.	C	.	IE		.	.	.	.	.	.	.	.
	16300.	C	.	IE		.	.	.	.	.	.	.	.
	16400.	C	.	IE		.	.	.	.	.	.	.	.
	16500.	C	.	IE		.	.	.	.	.	.	.	.
	16600.	C	.	.EM		.	.	.	.	.	.	.	.
	16700.	C	.	.EM		.	.	.	.	.	.	.	.
	16800.	C	.	.EM		.	.	.	.	.	.	.	.
	16900.	C	.	.IE		.	.	.	.	.	.	.	.
3.28	17000.	C	.	.IE		.	.	.	.	.	.	.	.
	17100.	C	.	.IEM		.	.	.	.	.	.	.	.
	17200.	C	.	. EM		.	.	.	.	.	.	.	.
	17300.	C	.	. EM		.	.	.	.	.	.	.	.
	17400.	C	.	. EM		.	.	.	.	.	.	.	.
	17500.	C	.	. IE		.	.	.	.	.	.	.	.
	17600.	C	.	. IE		.	.	.	.	.	.	.	.
	17700.	C	.	. IE		.	.	.	.	.	.	.	.
	17800.	C	.	. IEM		.	.	.	.	.	.	.	.
	17900.	C	.	. EM		.	.	.	.	.	.	.	.
	18000.	C	.	. EM		.	.	.	.	.	.	.	.
	18100.	C	.	. IE		.	.	.	.	.	.	.	.
	18200.	C	.	. IE		.	.	.	.	.	.	.	.
	18300.	C	.	. IE		.	.	.	.	.	.	.	.
	18400.	.	.	C . IE		.	.	.	.	.	.	.	.
3.55	18500.	.	.	. IE		.	.	.	.	.	.	.	.
	18600.	C	.	. EM		.	.	.	.	.	.	.	.
	18700.	C	.	. EM		.	.	.	.	.	.	.	.
	18800.	C	.	. IE		.	.	.	.	.	.	.	.
	18900.	C	.	. IE		.	.	.	.	.	.	.	.
	19000.	C	.	. IE		.	.	.	.	.	.	.	.
	19100.	C	.	. IE		.	.	.	.	.	.	.	.
	19200.	C	.	. E		.	.	.	.	.	.	.	.
	19300.	C	.	. EM		.	.	.	.	.	.	.	.
	19400.	C	.	. WE		.	.	.	.	.	.	.	.
	19500.	C	.	. IE		.	.	.	.	.	.	.	.
	19600.	C	.	. IE		.	.	.	.	.	.	.	.
3.78	19700.	C	.	. IE		.	.	.	.	.	.	.	.
	19800.	C	.	. E		.	.	.	.	.	.	.	.
	19900.	C	.	. E		.	.	.	.	.	.	.	.
	20000.	C	.	. EM									

```
     20100.  C     .     .    IE .     .     .     .     .     .     .     .
     20200.  C     .     .    IE .     .     .     .     .     .     .     .
     20300.  C     .     .     E .     .     .     .     .     .     .     .
     20400.  C     .     .     E .     .     .     .     .     .     .     .
3.94 20500.  .     .     .    EM .     .     .     .     .     .     .     .
     20600.  C     .     .    WE .     .     .     .     .     .     .     .
     20700.  C     .     .    IE .     .     .     .     .     .     .     .
     20800.  C     .     .     E .     .     .     .     .     .     .     .
     20900.  C     .     .     E .     .     .     .     .     .     .     .
     21000.  C     .     .    EM.     .     .     .     .     .     .     .
     21100.  C     .     .    IE.     .     .     .     .     .     .     .
     21200.  C     .     .    IE.     .     .     .     .     .     .     .
     21300.  C     .     .     E.     .     .     .     .     .     .     .
     21400.  C     .     .     E.     .     .     .     .     .     .     .
4.14 21500.  C     .     .     IE     .     .     .     .     .     .     .
     21600.  C     .     .     IE     .     .     .     .     .     .     .
     21700.  C     .     .     IE     .     .     .     .     .     .     .
     21800.  C     .     .      E     .     .     .     .     .     .     .
     21900.  C     .     .      E     .     .     .     .     .     .     .
     22000.  C     .     .      E     .     .     .     .     .     .     .
     22100.  C     .     .      E     .     .     .     .     .     .     .
     22200.  C     .     .     IE     .     .     .     .     .     .     .
     22300.  C     .     .     IE     .     .     .     .     .     .     .
     22400.  C     .     .     IE     .     .     .     .     .     .     .
     22500.  C     .     .     .E     .     .     .     .     .     .     .
     22600.  C     .     .     .E     .     .     .     .     .     .     .
     22700.  C     .     .     .E     .     .     .     .     .     .     .
4.38 22800.  C     .     .     .E     .     .     .     .     .     .     .
     22900.  C     .     .     .IE    .     .     .     .     .     .     .
     23000.  C     .     .     .IE    .     .     .     .     .     .     .
     23100.  C     .     .     .IE    .     .     .     .     .     .     .
     23200.  C     .     .     .IE    .     .     .     .     .     .     .
     23300.  C     .     .     . E    .     .     .     .     .     .     .
     23400.  C     .     .     . E    .     .     .     .     .     .     .
     23500.  C     .     .     . EM   .     .     .     .     .     .     .
     23600.  C     .     .     . IE   .     .     .     .     .     .     .
     23700.  C     .     .     . IE   .     .     .     .     .     .     .
     23800.  C     .     .     . IE   .     .     .     .     .     .     .
4.58 23900.  C     .     .     . IE   .     .     .     .     .     .     .
     24000.  C     .     .     . IE   .     .     .     .     .     .     .
     24100.  C     .     .     .  E   .     .     .     .     .     .     .
     24200.  C     .     .     .  EM  .     .     .     .     .     .     .
     24300.  C     .     .     .  IE  .     .     .     .     .     .     .
     24400.  C     .     .     .  IE  .     .     .     .     .     .     .
     24500.  C     .     .     .  IE  .     .     .     .     .     .     .
     24600.  C     .     .     .   E  .     .     .     .     .     .     .
     24700.  C     .     .     .   E  .     .     .     .     .     .     .
     24800.  C     .     .     .   E  .     .     .     .     .     .     .
     24900.  C     .     .     .  WE  .     .     .     .     .     .     .
4.79 25000.  C     .     .     .  IE  .     .     .     .     .     .     .
     25100.  C     .     .     .  IE  .     .     .     .     .     .     .
     25200.  C     .     .     .   E  .     .     .     .     .     .     .
     25300.  C     .     .     .   E  .     .     .     .     .     .     .
     25400.  C     .     .     .  EM  .     .     .     .     .     .     .
     25500.  C     .     .     .  IE  .     .     .     .     .     .     .
     25600.  C     .     .     .  IE  .     .     .     .     .     .     .
     25700.  C     .     .     .  IE  .     .     .     .     .     .     .
     25800.  C     .     .     .   E  .     .     .     .     .     .     .
     25900.  C     .     .     .   E  .     .     .     .     .     .     .
4.98 26000.  C     .     .     .   IE .     .     .     .     .     .     .
     26100.  C     .     .     .   IE .     .     .     .     .     .     .
     26200.  C     .     .     .   IE .     .     .     .     .     .     .
     26300.  C     .     .     .   IE .     .     .     .     .     .     .
     26400.  C     .     .     .    EM .     .     .     .     .     .     .
     26500.  C     .     .     .    EM .     .     .     .     .     .     .
     26600.  C     .     .     .    WE
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     26700.  C        .        .        .   IE .        .        .        .        .        .        .
5.12 26800.  C        .        .        .   IE .        .        .        .        .        .        .
     26900.  C        .        .        .   IE .        .        .        .        .        .        .
     27000.  C        .        .        .   IE .        .        .        .        .        .        .
     27100.  C        .        .        .   IE .        .        .        .        .        .        .
     27200.  C        .        .        .   EM.        .        .        .        .        .        .
     27300.  C        .        .        .   EM.        .        .        .        .        .        .
     27400.  C        .        .        .   EM.        .        .        .        .        .        .
     27500.  C        .        .        .   ER.        .        .        .        .        .        .
     27600.  C        .        .        .   ER.        .        .        .        .        .        .
     27700.  C        .        .        .   IE.        .        .        .        .        .        .
5.32 27800.  C        .        .        .   IE.        .        .        .        .        .        .
     27900.  C        .        .        .   IE.        .        .        .        .        .        .
     28000.  C        .        .        .   IE.        .        .        .        .        .        .
     28100.  C        .        .        .   IE.        .        .        .        .        .        .
     28200.  C        .        .        .   IE.        .        .        .        .        .        .
     28300.  C        .        .        .   IE.        .        .        .        .        .        .
     28400.  C        .        .        .    E.        .        .        .        .        .        .
     28500.  C        .        .        .    E.        .        .        .        .        .        .
     28600.  C        .        .        .    E.        .        .        .        .        .        .
5.50 28700.  C        .        .        .    E.        .        .        .        .        .        .
     28800.  C        .        .        .    E.        .        .        .        .        .        .
     28900.  C        .        .        .    E.        .        .        .        .        .        .
     29000.  C        .        .        .    E.        .        .        .        .        .        .
     29100.  C        .        .        .   ER        .        .        .        .        .        .
     29200.  C        .        .        .   IE        .        .        .        .        .        .
     29300.  C        .        .        .   IE        .        .        .        .        .        .
     29400.  C        .        .        .   IE        .        .        .        .        .        .
     29500.  C        .        .        .    E        .        .        .        .        .        .
     29600.  C        .        .        .    E        .        .        .        .        .        .
     29700.  C        .        .        .    E        .        .        .        .        .        .
     29800.  C        .        .        .    E        .        .        .        .        .        .
     29900.  C        .        .        .    E        .        .        .        .        .        .
     30000.  C        .        .        .   ER        .        .        .        .        .        .
     30100.  .        .        C        .   ER        .        .        .        .        .        .
5.78 30200.  .        .        .        .   WE        .        .        .        .        .        .
     30300.  .        .        C        .   IE        .        .        .        .        .        .
     30400.  C        .        .        .   IE        .        .        .        .        .        .
     30500.  C        .        .        .   .E        .        .        .        .        .        .
     30600.  C        .        .        .   .EM       .        .        .        .        .        .
     30700.  C        .        .        .   .EM       .        .        .        .        .        .
     30800.  C        .        .        .   .IE       .        .        .        .        .        .
     30900.  C        .        .        .   .IE       .        .        .        .        .        .
     31000.  C        .        .        .   .IE       .        .        .        .        .        .
     31100.  C        .        .        .   . E       .        .        .        .        .        .
     31200.  C        .        .        .   . EM      .        .        .        .        .        .
     31300.  C        .        .        .   . EM      .        .        .        .        .        .
     31400.  C        .        .        .   . IE      .        .        .        .        .        .
6.02 31500.  C        .        .        .   . IE      .        .        .        .        .        .
     31600.  C        .        .        .   . IE      .        .        .        .        .        .
     31700.  C        .        .        .   . IE      .        .        .        .        .        .
     31800.  C        .        .        .   .  E      .        .        .        .        .        .
     31900.  C        .        .        .   .  EM     .        .        .        .        .        .
     32000.  C        .        .        .   .  IE     .        .        .        .        .        .
     32100.  C        .        .        .   .  IE     .        .        .        .        .        .
     32200.  C        .        .        .   .  IE     .        .        .        .        .        .
1.01 32300.  .        .        .        .   .   E     .        .        .        .        .        .
     32400.  .        C        .        .   .   E     .        .        .        .        .        .
     32500.  C        .        .        .   .   IE    .        .        .        .        .        .
     32600.  C        .        .        .   .   IE    .        .        .        .        .        .
     32700.  C        .        .        .   .   IE    .        .        .        .        .        .
     32800.  C        .        .        .   .    E    .        .        .        .        .        .
     32900.  C        .        .        .   .    E    .        .        .        .        .        .
     33000.  C        .        .        .   .    IE   .        .        .        .        .        .
6.33 33100.  C        .        .        .   .    IE   .        .        .        .        .        .
     33200.  C                                    IE
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        33300.  C      .      .      .      .   E  .      .      .      .      .      .
        33400.  C      .      .      .      .   E  .      .      .      .      .      .
        33500.  C      .      .      .      .  IE  .      .      .      .      .      .
        33600.  C      .      .      .      .  IE  .      .      .      .      .      .
        33700.  C      .      .      .      .   E  .      .      .      .      .      .
        33800.  C      .      .      .      .   E  .      .      .      .      .      .
        33900.  C      .      .      .      .  EM  .      .      .      .      .      .
        34000.  C      .      .      .      .  IE  .      .      .      .      .      .
    6.52 34100.  C      .      .      .      .  IE  .      .      .      .      .      .
1
 11/10/87    14:16:18                                                                  PAGE   16


                                                                THIS RUN EXECUTED 11/10/87   14:17:42
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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


CAP OVERCHUTE 5-EAST WAS

SUMMARY PRINTOUT
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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.066	2227.00	1321.79	4645.43	4940.00	5025.00	5715.45	.00	1070.02	3.79	1318.00	63.48	2.93
	.278	2195.00	1329.12	4625.36	4750.00	5110.00	5437.10	7.33	811.75	3.12	1326.00	69.60	2.46
	.462	2165.00	1335.31	4804.27	4970.00	5040.00	5360.07	6.20	555.80	4.31	1331.00	59.27	3.49
*	.515	2135.00	1338.60	4942.02	4935.00	5045.00	5036.22	.71	94.20	4.60	1334.00	110.00	7.86
*	.527	2135.00	1340.25	4759.01	4750.00	5090.00	5086.06	.28	327.04	6.25	1334.00	41.13	2.06
	.653	2135.00	1341.59	4389.03	4560.00	5355.00	5352.61	1.34	963.58	5.59	1336.00	11.08	.96
	.801	2105.00	1344.09	4731.25	4740.00	5580.00	5759.58	2.50	1028.32	1.59	1342.50	452.98	2.83
	.991	2075.00	1350.75	4823.22	4890.00	5500.00	5900.67	6.66	1077.45	2.75	1348.00	25.01	1.29
	1.208	2044.00	1355.47	4636.37	4880.00	5090.00	5469.67	4.73	833.30	2.47	1353.00	92.06	2.25
	1.426	2025.00	1361.89	4664.15	4820.00	5060.00	5050.48	6.42	386.32	5.89	1356.00	37.06	2.17
	1.725	2015.00	1368.31	4878.30	4920.00	5060.00	5052.98	6.42	174.68	5.31	1363.00	47.45	4.55
	1.962	2006.00	1371.79	4634.49	4890.00	5040.00	5028.93	3.47	394.44	4.29	1367.50	16.12	2.78
	2.061	584.00	1374.34	4900.00	4900.00	5040.00	5031.69	2.01	131.69	4.34	1370.00	19.44	2.13
	2.237	550.00	1377.57	4960.35	4930.00	5040.00	5027.86	3.23	67.51	3.57	1374.00	98.47	4.42
	2.367	500.00	1380.93	4850.61	4925.00	5035.00	5019.65	3.36	169.04	3.43	1377.50	24.64	2.41
	2.549	455.00	1384.57	4891.36	4970.00	5055.00	5036.34	3.64	144.98	3.57	1381.00	74.98	3.74

2.672	396.00	1386.43	4880.89	4990.00	5130.00	5126.53	1.86	245.64	3.93	1382.50	11.26	1.35

1

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	2.725	396.00	1386.57	4990.00	4990.00	5010.00	5010.00	.14	20.00	3.57	1383.00	15.36	5.55
	2.738	396.00	1387.59	4990.00	4990.00	5010.00	5010.00	1.02	20.00	4.39	1383.20	8.33	4.51
*	2.825	380.00	1390.25	4977.51	4970.00	5060.00	5033.74	2.66	56.23	2.25	1388.00	56.17	6.01
	2.885	395.00	1393.31	4888.63	4840.00	5120.00	5081.79	3.06	193.16	1.31	1392.00	121.36	2.71
*	3.022	390.00	1399.63	4973.20	4970.00	5020.00	5017.87	2.03	44.67	3.13	1396.50	197.26	5.58
	3.283	388.00	1409.23	4804.65	4985.00	5010.00	5128.69	9.60	324.04	3.23	1406.00	32.75	2.88
*	3.554	384.00	1420.38	4873.44	4900.00	5015.00	5033.97	11.15	160.53	3.38	1417.00	373.32	4.53
	3.779	381.00	1429.71	4920.78	4985.00	5010.00	5119.60	9.33	198.82	2.71	1427.00	31.64	2.83
*	3.937	379.00	1436.42	4922.68	4960.00	5040.00	5103.61	6.71	180.93	1.42	1435.00	269.16	4.62
	4.135	376.00	1447.60	4900.15	4900.00	5150.00	5149.77	11.17	249.62	1.60	1446.00	54.33	1.89
	4.382	374.00	1456.74	4883.69	4980.00	5010.00	5144.08	9.15	260.39	2.24	1454.50	98.03	3.83
	4.580	371.00	1464.72	4946.19	4980.00	5025.00	5102.29	7.98	156.11	3.22	1461.50	61.07	3.64
	4.789	369.00	1473.17	4871.03	4985.00	5015.00	5078.12	8.44	207.10	2.17	1471.00	103.53	4.25
	4.984	366.00	1482.62	4947.65	4940.00	5040.00	5034.90	9.45	87.24	2.62	1480.00	81.48	3.21
	5.124	364.00	1488.48	4960.66	4975.00	5030.00	5047.53	5.86	86.88	2.98	1485.50	78.09	3.77
	5.317	361.00	1493.38	4879.19	4985.00	5205.00	5108.43	4.90	229.24	2.38	1491.00	30.39	1.92
	5.497	359.00	1495.34	4839.69	4900.00	5250.00	5229.39	1.96	389.70	1.84	1493.50	14.79	1.12
*	5.781	354.00	1502.47	4885.59	4945.00	5040.00	5019.55	7.12	133.95	1.47	1501.00	322.34	4.99
	6.016	351.00	1513.12	4811.93	4990.00	5020.00	5074.42	10.66	262.50	3.12	1510.00	37.65	3.00
*	6.334	349.00	1528.90	4861.82	4970.00	5010.00	5070.00	8.40	208.18	2.90	1526.00	59.35	3.50
	6.524	346.00	1538.74	4921.71	4910.00	5030.00	5026.10	9.84	104.38	1.74	1537.00	198.16	3.81

1

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .515 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .527 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 2.061 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 2.825 PROFILE= 1 CRITICAL DEPTH ASSUMED

```
CAUTION  SECNO=    2.825  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.825  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    3.022  PROFILE= 1  INTERPOLATED XSECTIONS USED

CAUTION  SECNO=    3.554  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    3.554  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    3.937  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    3.937  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    5.781  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    5.781  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    5.781  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    6.334  PROFILE= 1  INTERPOLATED XSECTIONS USED

1
 11/10/87   14:17:47                                                                    PAGE   1


                                                                THIS RUN EXECUTED 11/10/87   14:17:47

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION
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INPUT FILE: CAP6EAST

OUTPUT FILE: CAP6EAST.OUT

THIS RUN EXECUTED 11/10/87 14:19:16

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
  ERROR CORR - 01,02,03,04,05,06
  MODIFICATION - 50,51,52,53,54,55,56
  IBM-PC-XT VERSION
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T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 6-EAST (LOWER) WASH

J1	ICHECK	INQ	NINV	IDIR	STAT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	2006.	1371.930	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

NC	.070	.080	.050	.100	.300	.000	.000	.000	.000	.000
X1	.000	8.000	4830.000	5040.000	.000	.000	.000	.000	.000	.000
X2	2006.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1373.000	4490.000	1372.000	4620.000	1368.000	4890.000	1368.000	4990.000	1367.500	5000.000
GR	1368.000	5010.000	1372.000	5030.000	1376.000	5040.000	.000	.000	.000	.000
X1	.099	9.000	4770.000	4830.000	400.000	520.000	520.000	.000	.000	.000
X2	1260.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1376.000	4330.000	1375.000	4545.000	1372.000	4660.000	1371.500	4680.000	1372.000	4700.000
GR	1372.000	4770.000	1371.500	4810.000	1372.000	4930.000	1374.500	4900.000	.000	.000
NC	.065	.065	.050	.000	.000	.000	.000	.000	.000	.000
X1	.275	5.000	4935.000	5040.000	630.000	780.000	720.000	.000	.000	.000
X2	1260.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1379.000	4935.000	1376.000	4985.000	1375.500	5000.000	1376.000	5040.000	1380.000	5370.000
X1	.485	6.000	4955.000	5025.000	850.000	850.000	900.000	.000	.000	.000
X2	1260.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1386.000	4845.000	1384.000	4955.000	1382.000	5000.000	1384.000	5025.000	1386.000	5220.000
GR	1387.000	5430.000	.000	.000	.000	.000	.000	.000	.000	.000

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 X2   1260.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1394.400   4820.000  1392.000  4975.000  1389.500  5000.000  1392.000  5020.000  1394.400  5210.000

 X1      .856     8.000  4940.000  5030.000  1400.000  1350.000  1390.000      .000      .000      .000
 X2   1260.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1405.000   4510.000  1404.000  4620.000  1403.000  4750.000  1404.000  4900.000  1404.000  4940.000
 GR   1400.000   5000.000  1404.000  5030.000  1404.500  5050.000      .000      .000      .000      .000

 X1     1.121    12.000  4980.000  5030.000  1380.000  1410.000  1400.000      .000      .000      .000
 X2   1260.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1416.000   4250.000  1412.000  4640.000  1413.000  4740.000  1412.000  4805.000  1411.000  4840.000
 GR   1412.000   4925.000  1414.000  4950.000  1412.000  4980.000  1409.500  5000.000  1412.000  5030.000
 GR   1414.000   5090.000  1415.000  5380.000      .000      .000      .000      .000      .000      .000

 X1     1.201     7.000  4955.000  5015.000   480.000   380.000   420.000      .000      .000      .000
 X2    540.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1417.100   4840.000  1416.000  4920.000  1416.000  4955.000  1416.000  4980.000  1414.000  5000.000
 GR   1416.000   5015.000  1417.100  5075.000      .000      .000      .000      .000      .000      .000
 EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
  11/10/87    14:19:16                                                                          PAGE    3


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 SECNO  .000
      .00     4.43  1371.93      .00  1371.93  1372.01      .08      .00      .00  1368.00
     2006.     647.     1359.      0.     521.     515.      0.       0.       0.   1376.00
      .00     1.24     2.64      .00     .070     .050     .090     .000  1367.50  4624.72
   .001388      0.       0.       0.       0        0        0       .00   404.93  5029.65
0
 *SECNO  .099

 1645 INT SEC ADDED BY RAISING SEC       .10,  -2.000FT AND MULTIPLYING BY   1.527

      1.01     2.84  1372.34      .00      .00  1372.40      .06      .39      .00  1370.00
     1633.     904.     617.     112.     569.     237.     117.      5.       2.   1370.00
      .03     1.59     2.60      .96     .070     .050     .080     .000  1369.50  4696.91
   .002150     200.     260.     260.       3        0        0       .00   496.76  5193.67
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   2.000FT AND MULTIPLYING BY    .655

      .10     1.64  1373.14      .00      .00  1373.58      .44     1.06      .11  1372.00
     1260.     663.     555.      42.     162.      84.     19.      8.       4.   1372.00
      .05     4.09     6.60     2.28     .070     .050     .080     .000  1371.50  4615.89
   .031457     200.     260.     260.       3        0        0       .00   246.33  4862.22
0
 *SECNO  .275
      .28     3.34  1378.84      .00      .00  1378.94      .10     5.33      .03  1379.00
     1260.      0.      708.     552.      0.     237.     333.      15.       9.   1376.00
      .13      .00     2.98     1.66     .065     .050     .065     .000  1375.50  4937.61
   .003280     630.     720.     780.       6        0        0       .00   336.96  5274.57
0
 *SECNO  .405

 1645 INT SEC ADDED BY RAISING SEC       .41,  -3.250FT AND MULTIPLYING BY   1.224
```

```
3720 CRITICAL DEPTH ASSUMED
     1.01     2.95  1381.70  1381.70      .00  1382.29      .59      2.94      .15  1390.75
    1260.      60.     1094.     106.      30.     167.      54.      19.      12.   1380.75
      .15     1.97      6.55     1.97     .065     .050     .065     .000  1379.75  4915.65
  .019955     425.     450.     425.        3       15        0      .00   263.05  5178.69
0

11/10/87    14:19:16                                                                          PAGE    4

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

1645 INT SEC ADDED BY RAISING SEC      1.01,   3.250FT AND MULTIPLYING BY    .817

     .41     3.90  1385.90      .00      .00  1386.09      .19      3.76      .04  1394.00
    1260.     151.     840.     268.     100.     204.     178.      23.      15.   1384.00
     .19     1.51      4.13     1.51     .065     .050     .065     .000  1382.00  4850.04
  .004656     425.     450.     425.        4        0        0      .00   361.02  5211.06
0
 *SECNO  .595
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .60     3.97  1393.47  1393.47      .00  1394.08      .62      7.83      .13  1392.00
    1260.     164.     895.     201.      69.     122.      85.      32.      22.   1392.00
     .23     2.36      7.33     2.36     .065     .050     .065     .000  1389.50  4880.35
  .016170     940.    1000.    1000.        2        8        0      .00   255.67  5136.02

 SECNO  .856
     .86     4.49  1404.49      .00      .00  1404.63      .14     10.50      .05  1404.00
    1260.     446.     811.       3.     311.     224.       5.      45.      34.   1404.00
     .37     1.43      3.61      .60     .065     .050     .065     .000  1400.00  4565.70
  .004393    1400.    1380.    1350.        7        0        0      .00   484.05  5049.75
0
 *SECNO 1.121

3265 DIVIDED FLOW

    1.12     3.48  1412.98      .00      .00  1413.18      .20      8.53      .02  1412.00
    1260.     699.     541.      20.     319.     112.      15.      60.      49.   1412.00
     .49     2.19      4.85     1.36     .065     .050     .065     .000  1403.50  4544.02
  .009163    1380.    1400.    1410.        4        0        0      .00   485.00  5059.53
0
 *SECNO 1.201
    1.20     3.02  1417.02      .00      .00  1417.19      .17      4.01      .00  1416.00
     540.     131.     370.      39.      74.      96.      29.      64.      53.   1416.00
     .52     1.77      3.83     1.38     .065     .050     .065     .000  1414.00  4945.50
  .008870     480.     420.     380.        3        0        0      .00   225.37  5070.87
0
1
PROFILE FOR STREAM  CAP OVERCHUTE 6-EAST (LO

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION  1360.     1370.     1380.     1390.     1400.     1410.     1420.     1430.     1440.     1450.
   SECNO   CUMDIS

     .00     0.  C       I . EM  R  .        .        .        .        .        .        .        .        .
    .100     C       W  EMR
```

```
       200.  C      ILREM   .     .     .     .     .     .     .     .     .
1.01   300.  C       I EM   .     .     .     .     .     .     .     .     .
       400.  C       IL E   .     .     .     .     .     .     .     .     .
       500.  C      .ILEM   .     .     .     .     .     .     .     .     .
 .10   600.  C      . IWEM  .     .     .     .     .     .     .     .     .
       700.  C      . ILEM  .     .     .     .     .     .     .     .     .
       800.  C      .  ILEM .     .     .     .     .     .     .     .     .
       900.  C      .  IRLE .     .     .     .     .     .     .     .     .
      1000.  C      .   I WE .     .     .     .     .     .     .     .     .
      1100.  C      .   IR EM .    .     .     .     .     .     .     .     .
      1200.  C      .    I  E .    .     .     .     .     .     .     .     .
 .28  1300.  C      .     I  E.    .     .     .     .     .     .     .     .
      1400.  C      .     IR WE    .     .     .     .     .     .     .     .
      1500.  C      .      IR EM   .     .     .     .     .     .     .     .
      1600.  C      .       IRLEM  .     .     .     .     .     .     .     .
1.01  1700.  .      .        I.LEM .     .     .     .     .     .     .     .
      1800.  C      .        I.L E .     .     .     .     .     .     .     .
      1900.  C      .         I L E .     .     .     .     .     .     .     .
      2000.  C      .         .I L E .    .     .     .     .     .     .     .
      2100.  C      .         . I LWE .   .     .     .     .     .     .     .
 .41  2200.  C      .         . I L E .   .     .     .     .     .     .     .
      2300.  C      .         .  I L E .  .     .     .     .     .     .     .
      2400.  C      .         .   I LWE . .     .     .     .     .     .     .
      2500.  C      .         .   I L EM. .     .     .     .     .     .     .
      2600.  C      .         .    I L E. .     .     .     .     .     .     .
      2700.  C      .         .     I L E .     .     .     .     .     .     .
      2800.  C      .         .      I LWE .    .     .     .     .     .     .
      2900.  C      .         .      I  LWE .   .     .     .     .     .     .
      3000.  C      .         .       I L EM .  .     .     .     .     .     .
      3100.  C      .         .        I.L EM . .     .     .     .     .     .
 .60  3200.  .      .         .         I LWE . .     .     .     .     .     .
      3300.  C      .         .         I  LWE . .    .     .     .     .     .
      3400.  C      .         .         .I  LWE . .   .     .     .     .     .
      3500.  C      .         .         . I  LEM . .  .     .     .     .     .
      3600.  C      .         .         .  I L E . .  .     .     .     .     .
      3700.  C      .         .         .  I  LWE . . .     .     .     .     .
      3800.  C      .         .         .   I  LWE. . .     .     .     .     .
      3900.  C      .         .         .    I  LEM . .     .     .     .     .
      4000.  C      .         .         .     I  LE . .     .     .     .     .
      4100.  C      .         .         .     I   LE . .    .     .     .     .
      4200.  C      .         .         .      I  .WE . .   .     .     .     .
      4300.  C      .         .         .       I . E . .   .     .     .     .
      4400.  C      .         .         .        I. LE . .  .     .     .     .
      4500.  C      .         .         .        I.  LE . . .     .     .     .
 .86  4600.  C      .         .         .         I   WE . . .     .     .     .
      4700.  C      .         .         .         .I   E . . .     .     .     .
      4800.  C      .         .         .         .I   LE . . .    .     .     .
      4900.  C      .         .         .         . I   EM . . .   .     .     .
      5000.  C      .         .         .         .  I  LEM . . .  .     .     .
      5100.  C      .         .         .         .  I   LE . . .  .     .     .
      5200.  C      .         .         .         .   I  LEM. . .  .     .     .
      5300.  C      .         .         .         .    I  LEM . . .     .     .
      5400.  C      .         .         .         .    I   WEM . . .    .     .
      5500.  C      .         .         .         .     I  LEM . . .    .     .
      5600.  C      .         .         .         .      I  LEM . . .   .     .
      5700.  C      .         .         .         .      I  LE M . . .  .     .
      5800.  C      .         .         .         .       I .LE M . . .  .     .
      5900.  C      .         .         .         .        I.LWEM . . .  .     .
1.12  6000.  C      .         .         .         .         I LE M . . .  .     .
      6100.  C      .         .         .         .         .I LE M . . .  .     .
      6200.  C      .         .         .         .         . I LEM . . .  .     .
      6300.  C      .         .         .         .         .  I LEM . . .  .     .
1.20  6400.  C      .         .         .         .         .   I LE . . .  .     .
```

THIS RUN EXECUTED 11/10/87 14:19:39

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION
*************************************************
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 6-EAST (LO

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	2006.00	1371.93	4624.72	4890.00	5040.00	5029.65	.00	404.93	4.43	1367.50	13.88	2.64
*	.099	1260.00	1373.14	4615.89	4770.00	4830.00	4862.22	.80	246.33	1.64	1371.50	314.57	6.60
	.275	1260.00	1378.84	4937.61	4935.00	5040.00	5274.57	5.70	336.96	3.34	1375.50	32.80	2.98
*	.405	1260.00	1385.90	4850.04	4955.00	5025.00	5211.06	4.20	361.02	3.90	1382.00	46.56	4.13
*	.595	1260.00	1393.47	4880.35	4975.00	5020.00	5136.02	7.57	255.67	3.97	1389.50	161.70	7.33
	.856	1260.00	1404.49	4565.70	4940.00	5030.00	5049.75	11.02	484.05	4.49	1400.00	43.93	3.61
	1.121	1260.00	1412.98	4544.02	4980.00	5030.00	5059.53	8.49	485.00	3.48	1409.50	91.63	4.85
	1.201	540.00	1417.02	4845.50	4955.00	5015.00	5070.87	4.04	225.37	3.02	1414.00	88.70	3.83

1

11/10/87 14:19:16 PAGE 6

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .099 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .405 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .595 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .595 PROFILE= 1 MINIMUM SPECIFIC ENERGY

1

11/10/87 14:19:40 PAGE 1

THIS RUN EXECUTED 11/10/87 14:19:41

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION
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T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 6-EAST (UPPER) WASH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.008000	.00	.5	540.	1424.000	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

NC	.050	.040	.050	.100	.300	.000	.000	.000	.000	.000
X1	1.356	3.000	4970.000	5020.000	.000	.000	.000	.000	.000	.000
X2	540.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1424.500	4610.000	1424.000	4730.000	1423.000	4830.000	1422.500	4940.000	1424.000	4970.000
GR	1423.000	5000.000	1424.000	5020.000	1424.000	5130.000	1425.500	5305.000	.000	.000

Jomax. Rd (Extended).

X1	1.546	5.000	4960.000	5030.000	940.000	1050.000	1000.000	.000	.000	.000
X2	536.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1431.500	4730.000	1430.000	4960.000	1429.000	5000.000	1430.000	5030.000	1432.000	5155.000
X1	1.695	5.000	4870.000	5065.000	780.000	730.000	790.000	.000	.000	.000
X2	536.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1438.000	4480.000	1436.500	4870.000	1436.000	5000.000	1436.500	5065.000	1438.500	5775.000
X1	1.913	6.000	4820.000	5050.000	1180.000	1100.000	1150.000	.000	.000	.000
X2	532.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1446.500	4475.000	1445.500	4820.000	1444.500	4880.000	1444.500	5000.000	1445.500	5050.000
GR	1447.000	5450.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.172	8.000	4730.000	5105.000	1350.000	1310.000	1370.000	.000	.000	.000
X2	524.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1457.500	4530.000	1456.000	4730.000	1456.000	4890.000	1456.000	4980.000	1456.000	5000.000
GR	1456.500	5105.000	1456.000	5240.000	1457.000	5380.000	.000	.000	.000	.000

1

X1	2.358	7.000	4970.000	5030.000	930.000	980.000	980.000	.000	.000	.000
X2	520.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1466.000	4625.000	1464.000	4970.000	1463.000	5000.000	1464.000	5030.000	1464.000	5150.000
GR	1464.000	5210.000	1465.500	5300.000	.000	.000	.000	.000	.000	.000

Dynamite Blvd. (Extended)

NC	.000	.000	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.547	5.000	4970.000	5025.000	970.000	1000.000	1000.000	.000	.000	.000
X2	516.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1474.000	4870.000	1472.500	4970.000	1472.000	5000.000	1472.500	5025.000	1474.000	5220.000
X1	2.756	8.000	4855.000	5030.000	1100.000	1030.000	1100.000	.000	.000	.000
X2	512.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1484.600	4640.000	1484.000	4660.000	1483.500	4730.000	1483.500	4805.000	1484.000	4855.000
GR	1484.000	4970.000	1482.500	5000.000	1484.600	5030.000	.000	.000	.000	.000

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NC      .075      .075      .050      .000      .000      .000      .000      .000      .000      .000
X1     2.955     7.000  4975.000  5020.000  1040.000   960.000  1050.000      .000      .000      .000
X2   485.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1493.100  4675.000  1492.000  4750.000  1493.000  4890.000  1492.000  4975.000  1490.000  5000.000
GR  1492.000  5020.000  1493.500  5150.000      .000      .000      .000      .000      .000      .000
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171 ST. AVE

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X1     3.053     6.000  4920.000  5025.000   480.000   550.000   520.000      .000      .000      .000
X2   485.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1497.500  4825.000  1496.000  4920.000  1496.000  4970.000  1493.500  5000.000  1496.000  5025.000
GR  1499.000  5210.000      .000      .000      .000      .000      .000      .000      .000      .000

X1     3.212     5.000  4980.000  5015.000   800.000   840.000   840.000      .000      .000      .000
X2   485.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1505.000  4870.000  1504.000  4990.000  1501.000  5000.000  1504.000  5015.000  1505.500  5080.000

X1     3.364     5.000  4985.000  5015.000   800.000   800.000   800.000      .000      .000      .000
X2   455.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1512.000  4920.000  1508.000  4985.000  1507.000  5000.000  1508.000  5015.000  1512.000  5030.000

X1     3.591     5.000  4970.000  5030.000  1160.000  1150.000  1200.000      .000      .000      .000
X2   430.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1523.000  4710.000  1520.000  4970.000  1517.000  5000.000  1520.000  5030.000  1522.000  5100.000

X1     3.809     3.000  4915.000  5075.000  1150.000  1150.000  1150.000      .000      .000      .000
X2   405.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1532.000  4915.000  1528.000  5000.000  1532.000  5075.000      .000      .000      .000      .000

X1     4.017     5.000  4980.000  5020.000  1100.000  1100.000  1100.000      .000      .000      .000
X2   350.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1542.000  4930.000  1540.000  4980.000  1539.000  5000.000  1540.000  5020.000  1542.000  5170.000
EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO 1.356

3265 DIVIDED FLOW

     1.36     1.44  1423.94      .00  1424.00  1424.04      .10      .00      .00  1424.00
     540.     505.      35.       0.     196.      22.       0.       0.       0.  1424.00
      .00     2.57     1.60      .00     .050     .050     .040     .000  1422.50  4735.74
  .007885       0.       0.       0.        0        0        4      .00   280.25  5018.85
0
*SECNO 1.546
     1.55     2.02  1431.02      .00      .00  1431.14      .12     7.09      .01  1430.00
     536.     126.     346.      64.      80.     107.      33.       5.       6.  1430.00
      .10     1.57     3.25     1.96     .050     .050     .040     .000  1429.00  4803.26
 .006828     940.    1000.    1050.        4        0        0      .00   290.63  5093.89

*SECNO 1.635
     1.70     1.08  1437.08      .00      .00  1437.16      .08     6.01      .00  1436.50
     536.      52.     395.      83.      43.     161.      59.       9.      14.  1436.50
      .20     1.21     2.45     1.52     .050     .050     .040     .000  1436.00  4720.35
  .008780     780.     790.     730.        4        0        0      .00   548.97  5269.32
0
*SECNO 1.812
```

```
     1.91      1.21  1445.71      .00      .00  1445.79      .08      0.63      .00  1445.50
     532.       4.     524.       4.       8.     223.       6.       16.       26.   1445.50
      .34      .53      2.35     .66     .050     .050     .040     .000  1444.50  4747.90
   .006511   1180.    1150.    1100.        5        0        0      .00   357.83  5105.73
0
 *SECNO 2.172
     2.17      .59  1456.59      .00      .00  1456.65      .05     10.85      .00  1456.00
     524.      22.     378.     125.      16.     196.      71.       24.       41.   1456.50
      .54     1.32      1.93     1.76     .050     .050     .040     .000  1456.00  4674.71
   .010005   1350.    1370.    1310.        4        0        0      .00   648.23  5322.94
0
 *SECNO 2.358
1
  11/10/87    14:19:40                                                                    PAGE    4


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      2.36,  -5.250FT AND MULTIPLYING BY  14.165

     1.01      .91  1458.66      .00      .00  1458.70      .03      2.05      .00  1458.75
     523.       0.     523.       0.       0.     353.       0.       26.       45.   1458.75
      .59      .00      1.48     .00     .050     .050     .040     .000  1457.75  9549.69
   .007034    233.     245.     245.        3        0        0      .00   774.48 10324.17
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.750FT AND MULTIPLYING BY    .690

     1.02      1.01  1460.51      .00      .00  1460.55      .05      1.85      .00  1460.50
     522.       0.     517.       5.       0.     302.      25.       28.       54.   1460.50
      .63      .10      1.71     .20     .050     .050     .040     .000  1459.50  7973.69
   .008063    233.     245.     245.        3        0        0      .00  2379.17 10352.86
0

 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.750FT AND MULTIPLYING BY    .551

     1.03      1.14  1462.39      .00      .00  1462.44      .05      1.89      .00  1462.25
     521.       4.     395.     122.       9.     208.     142.       29.       65.   1462.25
      .67      .44      1.90     .86     .050     .050     .040     .000  1461.25  6351.47
   .007370    233.     245.     245.        6        0        0      .00  1471.83  7823.30
0

 1645 INT SEC ADDED BY RAISING SEC      1.03,   1.750FT AND MULTIPLYING BY    .186

     2.36      1.55  1464.55      .00      .00  1464.67      .12      2.21      .02  1464.00
     520.      35.     206.     279.      26.      63.     108.       31.       70.   1464.00
      .69     1.34      3.27     2.58     .050     .050     .040     .000  1463.00  4875.07
   .011370    233.     245.     245.        4        0        0      .00   367.94  5243.02
0
 *SECNO 2.547
     2.55      1.82  1473.82      .00      .00  1473.94      .12      9.27      .00  1472.50
     516.      72.     304.     140.      58.      86.     113.       36.       78.   1472.50
      .80     1.24      3.53     1.24     .080     .050     .080     .000  1472.00  4882.08
   .007733    970.    1000.    1000.        5        0        0      .00   314.35  5196.43
0
1
  11/10/87    14:19:40                                                                    PAGE    5


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
```

```
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


 *SECNO 2.756
     2.76     1.90  1484.40      .00      .00  1484.47      .07    10.52      .01  1484.00
     512.     255.     257.       0.     149.     107.       0.      43.      86.  1484.60
      .95     1.71     2.41      .00     .080     .050     .000     .000  1482.50  4646.56
  .012407    1100.    1100.    1030.        6        0        0      .00   380.62  5027.19
0
 *SECNO 2.955

 3265 DIVIDED FLOW

     2.95     2.98  1492.98      .00      .00  1493.11      .13     8.62      .02  1492.00
     485.     130.     316.      39.     140.      89.      41.      49.      96.  1492.00
     1.05      .93     3.55      .93     .075     .050     .075     .000  1490.00  4683.47
  .005798    1040.    1050.     960.        4        0        0      .00   415.62  5104.56
0
 *SECNO 3.053
     3.05     3.15  1496.65      .00      .00  1496.82      .17     3.70      .01  1496.00
     485.      12.     462.      12.      13.     137.      13.      51.      99.  1496.00
     1.10      .89     3.37      .89     .075     .050     .075     .000  1493.50  4878.96
  .009089     480.     520.     550.        4        0        0      .00   185.99  5064.96
0
 *SECNO 3.212
     3.21     3.00  1504.00  1504.52      .00  1505.19      .40     8.31      .07  1504.00
     485.      39.     430.      16.      35.      80.      14.      54.     103.  1504.00
     1.15     1.12     5.34     1.12     .075     .050     .075     .000  1501.00  4892.02
  .010857     800.     840.     840.        9        8        0      .00   157.64  5049.66
0
 *SECNO 3.364
     3.36     3.44  1510.44      .00      .00  1510.66      .22     5.45      .02  1508.00
     455.      74.     364.      17.      49.      88.      11.      57.     105.  1508.00
     1.21     1.53     4.12     1.50     .075     .050     .075     .000  1507.00  4945.28
  .004571     800.     800.     800.        4        0        0      .00    78.88  5024.17
0
 *SECNO 3.591
     3.59     2.89  1519.89      .00      .00  1520.30      .41     9.58      .06  1520.00
     430.       0.     430.       0.       0.      83.       0.      60.     107.  1520.00
     1.27      .00     5.15      .00     .075     .050     .075     .000  1517.00  4971.12
  .018545    1160.    1200.    1150.        5        0        0      .00    57.77  5028.88
0
1
 11/10/87    14:19:40                                                          PAGE    6


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.809
     3.81     2.76  1530.76      .00      .00  1530.87      .11    10.54      .03  1532.00
     405.       0.     405.       0.       0.     151.       0.      63.     109.  1532.00
     1.39      .00     2.67      .00     .075     .050     .075     .000  1528.00  4941.52
  .005296    1150.    1150.    1150.        4        0        0      .00   110.08  5051.60

 *SECNO 4.017
     4.02     1.82  1540.82  1540.81      .00  1541.23      .41    10.27      .09  1540.00
     350.      14.     293.      43.       8.      53.      25.      66.     112.  1540.00
     1.45     1.70     5.56     1.70     .075     .050     .075     .000  1539.00  4959.54
  .024213    1100.    1100.    1100.        7       14        0      .00   121.86  5081.40
0
```

PROFILE FOR STREAM CAP OVERCHUTE 6-EAST (UP

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION SECND	1420. CUMDIS	1440.	1460.	1480.	1500.	1520.	1540.	1560.	1580.	1600.
1.36	0.	CIE	.	.	.	.	.	.	.	.
	100.	C EM	.	.	.	.	.	.	.	.
	200.	C IE	.	.	.	.	.	.	.	.
	300.	C IE	.	.	.	.	.	.	.	.
	400.	C EM	.	.	.	.	.	.	.	.
	500.	C IE	.	.	.	.	.	.	.	.
	600.	C IE	.	.	.	.	.	.	.	.
	700.	C WE	.	.	.	.	.	.	.	.
	800.	C IE	.	.	.	.	.	.	.	.
	900.	C IE	.	.	.	.	.	.	.	.
1.55	1000.	C IE	.	.	.	.	.	.	.	.
	1100.	C IE	.	.	.	.	.	.	.	.
	1200.	C IEM	.	.	.	.	.	.	.	.
	1300.	C IE	.	.	.	.	.	.	.	.
	1400.	C IE	.	.	.	.	.	.	.	.
	1500.	C EM	.	.	.	.	.	.	.	.
	1600.	C IE	.	.	.	.	.	.	.	.
	1700.	C EM.	.	.	.	.	.	.	.	.
1.70	1800.	C IE.	.	.	.	.	.	.	.	.
	1900.	C IE.	.	.	.	.	.	.	.	.
	2000.	C EM	.	.	.	.	.	.	.	.
	2100.	C IE	.	.	.	.	.	.	.	.
	2200.	C IE	.	.	.	.	.	.	.	.
	2300.	C EM	.	.	.	.	.	.	.	.
	2400.	C IE	.	.	.	.	.	.	.	.
	2500.	C .EM	.	.	.	.	.	.	.	.
	2600.	C .IE	.	.	.	.	.	.	.	.
	2700.	C .IE	.	.	.	.	.	.	.	.
	2800.	C . EM	.	.	.	.	.	.	.	.
	2900.	C . IE	.	.	.	.	.	.	.	.
1.91	3000.	C . IE	.	.	.	.	.	.	.	.
	3100.	C . EM	.	.	.	.	.	.	.	.
	3200.	C . IE	.	.	.	.	.	.	.	.
	3300.	C . E	.	.	.	.	.	.	.	.
	3400.	C . EM	.	.	.	.	.	.	.	.
	3500.	C . IE	.	.	.	.	.	.	.	.
	3600.	C . EM	.	.	.	.	.	.	.	.
	3700.	C . IE	.	.	.	.	.	.	.	.
	3800.	C . E	.	.	.	.	.	.	.	.
	3900.	C . EM	.	.	.	.	.	.	.	.
	4000.	C . IE	.	.	.	.	.	.	.	.
	4100.	C . E	.	.	.	.	.	.	.	.
	4200.	C . IE	.	.	.	.	.	.	.	.
	4300.	C . E	.	.	.	.	.	.	.	.
2.17	4400.	C . EM.	.	.	.	.	.	.	.	.
	4500.	C . IE.	.	.	.	.	.	.	.	.
1.01	4600.	C . EM	.	.	.	.	.	.	.	.
	4700.	C . IE	.	.	.	.	.	.	.	.
1.02	4800.	C . EM	.	.	.	.	.	.	.	.
	4900.	C . IE	.	.	.	.	.	.	.	.
	5000.	C . IEM	.	.	.	.	.	.	.	.
1.03	5100.	C . .EM	.	.	.	.	.	.	.	.
	5200.	C . .IE	.	.	.	.	.	.	.	.
2.36	5300.	C . . EM	.	.	.	.	.	.	.	.
	5400.	C . . IE	.	.	.	.	.	.	.	.
	5500.	C . IEM								

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       5600. C        .        . IE       .        .        .        .        .        .        .        .
       5700. C        .        . IE       .        .        .        .        .        .        .        .
       5800. C        .        .  IE      .        .        .        .        .        .        .        .
       5900. C        .        .  IE      .        .        .        .        .        .        .        .
       6000. C        .        .   IE     .        .        .        .        .        .        .        .
       6100. C        .        .   IE     .        .        .        .        .        .        .        .
       6200. C        .        .    WE    .        .        .        .        .        .        .        .
2.55   6300. C        .        .    IE    .        .        .        .        .        .        .        .
       6400. C        .        .    IE    .        .        .        .        .        .        .        .
       6500. C        .        .     IE   .        .        .        .        .        .        .        .
       6600. C        .        .     IE   .        .        .        .        .        .        .        .
       6700. C        .        .      IE. .        .        .        .        .        .        .        .
       6800. C        .        .      IE. .        .        .        .        .        .        .        .
       6900. C        .        .       IE .        .        .        .        .        .        .        .
       7000. C        .        .       IE .        .        .        .        .        .        .        .
       7100. C        .        .        IE .        .        .        .        .        .        .        .
       7200. C        .        .        IE .        .        .        .        .        .        .        .
       7300. C        .        .        .IE        .        .        .        .        .        .        .
2.76   7400. C        .        .        .IE        .        .        .        .        .        .        .
       7500. C        .        .        . IE       .        .        .        .        .        .        .
       7600. C        .        .        . IE       .        .        .        .        .        .        .
       7700. C        .        .        . IEM      .        .        .        .        .        .        .
       7800. C        .        .        .  IE      .        .        .        .        .        .        .
       7900. C        .        .        .  IE      .        .        .        .        .        .        .
       8000. C        .        .        .  ILE     .        .        .        .        .        .        .
       8100. C        .        .        .   IE     .        .        .        .        .        .        .
       8200. C        .        .        .   IWE    .        .        .        .        .        .        .
       8300. C        .        .        .   ILE    .        .        .        .        .        .        .
       8400. C        .        .        .    IE    .        .        .        .        .        .        .
2.95   8500. C        .        .        .    IWE   .        .        .        .        .        .        .
       8600. C        .        .        .    ILE   .        .        .        .        .        .        .
       8700. C        .        .        .     IE   .        .        .        .        .        .        .
       8800. C        .        .        .     ILE  .        .        .        .        .        .        .
       8900. C        .        .        .     I E  .        .        .        .        .        .        .
3.05   9000. C        .        .        .      IEM.        .        .        .        .        .        .
       9100. C        .        .        .      ILE.        .        .        .        .        .        .
       9200. C        .        .        .       IEM        .        .        .        .        .        .
       9300. C        .        .        .       ILE        .        .        .        .        .        .
       9400. C        .        .        .        IEM       .        .        .        .        .        .
       9500. C        .        .        .        ILE       .        .        .        .        .        .
       9600. C        .        .        .        I.E       .        .        .        .        .        .
       9700. C        .        .        .         ILE      .        .        .        .        .        .
3.21   9800. .        .        .        .         .IWE     .        .        .        .        .        .
       9900. C        .        .        .         .ILE     .        .        .        .        .        .
      10000. C        .        .        .         .I E     .        .        .        .        .        .
      10100. C        .        .        .         . IWE    .        .        .        .        .        .
      10200. C        .        .        .         . ILE    .        .        .        .        .        .
      10300. C        .        .        .         . ILEM   .        .        .        .        .        .
      10400. C        .        .        .         .  ILE   .        .        .        .        .        .
      10500. C        .        .        .         .  ILEM  .        .        .        .        .        .
3.36  10600. C        .        .        .         .   IEM  .        .        .        .        .        .
      10700. C        .        .        .         .   ILE  .        .        .        .        .        .
      10800. C        .        .        .         .   ILEM .        .        .        .        .        .
      10900. C        .        .        .         .    IWE .        .        .        .        .        .
      11000. C        .        .        .         .    ILEM.        .        .        .        .        .
      11100. C        .        .        .         .     IEM.        .        .        .        .        .
      11200. C        .        .        .         .     ILEM.       .        .        .        .        .
      11300. C        .        .        .         .     I EM.       .        .        .        .        .
      11400. C        .        .        .         .      IWE.       .        .        .        .        .
      11500. C        .        .        .         .      I EM       .        .        .        .        .
      11600. C        .        .        .         .       IEM       .        .        .        .        .
      11700. C        .        .        .         .       I EM      .        .        .        .        .
3.59  11800. C        .        .        .         .        IEM      .        .        .        .        .
      11900. C        .        .        .         .        IWE      .        .        .        .        .
      12000. C        .        .        .         .        I.EM     .        .        .        .        .
      12100. C        .        .        .         .         IWE
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        12200.  C      .      .      .      .      I EM   .      .      .      .      .
        12300.  C      .      .      .      .      .IEL   .      .      .      .      .
        12400.  C      .      .      .      .      .I EM  .      .      .      .      .
        12500.  C      .      .      .      .      . IEL  .      .      .      .      .
        12600.  C      .      .      .      .      . I E  .      .      .      .      .
        12700.  C      .      .      .      .      .  IEL .      .      .      .      .
        12800.  C      .      .      .      .      .  I E .      .      .      .      .
        12900.  C      .      .      .      .      .   IEL .      .      .      .      .
    3.81 13000.  C      .      .      .      .      .   IEL .      .      .      .      .
        13100.  C      .      .      .      .      .    IE .      .      .      .      .
        13200.  C      .      .      .      .      .    IEL .      .      .      .      .
        13300.  C      .      .      .      .      .     IE .      .      .      .      .
        13400.  C      .      .      .      .      .     IEM .      .      .      .      .
        13500.  C      .      .      .      .      .      IE .      .      .      .      .
        13600.  C      .      .      .      .      .      IEM.      .      .      .      .
        13700.  C      .      .      .      .      .       IE.      .      .      .      .
        13800.  C      .      .      .      .      .       IEM      .      .      .      .
        13900.  C      .      .      .      .      .        WE      .      .      .      .
        14000.  C      .      .      .      .      .        IEM     .      .      .      .
    4.02 14100.  .      .      .      .      .      .         WE     .      .      .      .
1
 11/10/87    14:19:40                                                                PAGE    7
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THIS RUN EXECUTED 11/10/87 14:20:15

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 6-EAST (UP

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	1.356	540.00	1423.94	4735.74	4970.00	5020.00	5018.85	.00	280.25	1.44	1422.50	78.85	1.60
	1.546	536.00	1431.02	4803.26	4960.00	5030.00	5093.89	7.08	290.63	2.02	1429.00	68.29	3.25
	1.695	536.00	1437.08	4720.35	4870.00	5065.00	5269.32	6.06	548.97	1.08	1436.00	87.80	2.45
	1.913	532.00	1445.71	4747.90	4820.00	5050.00	5105.73	8.63	357.83	1.21	1444.50	65.11	2.35
	2.172	524.00	1456.59	4674.71	4730.00	5105.00	5322.94	10.88	648.23	.59	1456.00	100.05	1.93
*	2.358	520.00	1464.55	4875.07	4970.00	5030.00	5243.02	2.16	367.94	1.55	1463.00	113.70	3.27
	2.547	516.00	1473.82	4882.08	4970.00	5025.00	5196.43	9.27	314.35	1.82	1472.00	77.33	3.53
	2.756	512.00	1484.40	4646.56	4855.00	5030.00	5027.19	10.59	380.62	1.90	1482.50	124.07	2.41
	2.955	485.00	1492.98	4683.47	4975.00	5020.00	5104.56	8.57	415.62	2.98	1490.00	57.98	3.55
	3.053	485.00	1496.65	4878.96	4920.00	5025.00	5064.96	3.67	185.99	3.15	1493.50	90.89	3.37

3.364	455.00	1510.44	4945.28	4985.00	5015.00	5024.17	5.65	78.88	3.44	1507.00	45.71	4.12
3.591	430.00	1519.89	4971.12	4970.00	5030.00	5028.88	9.44	57.77	2.89	1517.00	185.45	5.15
3.803	405.00	1530.76	4941.52	4915.00	5075.00	5051.60	10.87	110.08	2.76	1528.00	52.96	2.67
4.017	350.00	1540.82	4959.54	4980.00	5020.00	5081.40	10.06	121.86	1.82	1539.00	242.13	5.56

1

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 2.358 PROFILE= 1 INTERPOLATED XSECTIONS USED

1

11/10/87 14:20:17 PAGE 1

THIS RUN EXECUTED 11/10/87 14:20:18

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION
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INPUT FILE: CAP7EAST

OUTPUT FILE: CAP7EAST.OUT

THIS RUN EXECUTED 11/10/87 13:33:21

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 7-EAST (WEST SPLIT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	485.	1496.830	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

NC	.070	.070	.050	.100	.300	.000	.000	.000	.000	.000
X1	.000	13.000	4920.000	5025.000	.000	.000	.000	.000	.000	.000
X2	485.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1497.000	4555.000	1496.000	4590.000	1496.000	4640.000	1497.000	4695.000	1496.000	4750.000
GR	1495.500	4770.000	1496.000	4790.000	1497.500	4825.000	1496.000	4920.000	1496.000	4970.000
GR	1493.500	5000.000	1496.000	5025.000	1499.000	5210.000	.000	.000	.000	.000
X1	.159	8.000	4880.000	5060.000	730.000	790.000	760.000	.000	.000	.000
X2	161.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1503.700	4775.000	1503.500	4775.000	1503.500	4775.000	1503.500	4880.000	1503.000	5000.000
GR	1504.000	5060.000	1504.000	5135.000	1505.000	5360.000	.000	.000	.000	.000
X1	.311	5.000	4920.000	5040.000	850.000	850.000	850.000	.000	.000	.000
X2	161.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1512.000	4750.000	1511.500	4920.000	1510.500	5000.000	1511.000	5040.000	1512.000	5210.000
X1	.417	5.000	4950.000	5040.000	560.000	560.000	560.000	.000	.000	.000
X2	161.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1518.000	4950.000	1516.000	5000.000	1517.000	5040.000	1516.000	5075.000	1517.500	5155.000
NC	.065	.065	.050	.000	.000	.000	.000	.000	.000	.000
X1	.549	3.000	4950.000	5040.000	720.000	670.000	700.000	.000	.000	.000
X2	161.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1523.500	4950.000	1521.500	5000.000	1523.500	5040.000	.000	.000	.000	.000

DIXLETA DR (EXTENDED).

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X1      .700     7.000  4700.000  5090.000   840.000   840.000   840.000      .000      .000      .000
X2   161.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1529.700  4700.000  1528.000  4795.000  1527.500  4815.000  1528.000  4830.000  1529.500  4900.000
GR  1528.000  5000.000  1530.500  5090.000      .000      .000      .000      .000      .000      .000

X1      .820     5.000  4975.000  5015.000   630.000   630.000   630.000      .000      .000      .000
X2   350.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1534.000  4840.000  1532.000  4975.000  1530.500  5000.000  1532.000  5015.000  1534.500  5270.000
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OVERCHUTE.

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X1      .970     3.000  4960.000  5070.000   750.000   750.000   750.000      .000      .000      .000
X2   350.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1540.000  4960.000  1536.000  5000.000  1540.000  5070.000      .000      .000      .000      .000
EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000

3265 DIVIDED FLOW

     .00     3.33  1496.83      .00  1496.83  1496.88      .05      .00      .00  1496.00
    485.     145.     326.      14.     164.     156.      21.       0.       0.   1496.00
     .00      .88     2.09      .64     .070     .050     .070     .000  1493.50  4560.95
  .002932      0.       0.       0.       0        0        0      .00   438.45  5076.18
0
*SECNO  .159
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .16      .60  1503.60  1503.60      .00  1503.72      .13     3.32      .02  1503.50
    161.       9.     152.       0.      10.      52.       0.       3.       6.   1504.00
     .07      .30     2.92      .00     .070     .050     .070     .000  1503.00  4775.00
  .041545    730.     760.     730.       20       22        0      .00   260.72  5035.72
0
*SECNO  .311
     .31     1.16  1511.66      .00      .00  1511.69      .03     7.96      .01  1511.50
    161.       1.     137.      23.       4.      89.      37.       5.      11.   1511.00
     .24      .25     1.54      .64     .070     .050     .070     .000  1510.50  4867.12
  .004024    850.     850.     850.        6        0        0      .00   284.31  5151.44
0
*SECNO  .417

3265 DIVIDED FLOW

     .42      .95  1516.85      .00      .00  1516.99      .14     5.27      .03  1518.00
    161.       0.      82.      79.       0.      24.      32.       7.      14.   1517.00
     .30      .00     3.47     2.48     .070     .050     .070     .000  1516.00  4978.71
  .042527    560.     560.     560.        4        0        0      .00   130.55  5120.41
0
*SECNO  .549
     .55     1.96  1523.46      .00      .00  1523.52      .05     6.51      .01  1523.50
    161.       0.     161.       0.       0.      87.       0.       8.      16.   1523.50
     .40      .00     1.05      .00     .065     .050     .065     .000  1521.50  4950.05
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  .004020    720.    700.    670.      7      0      0    .00   88.29  5039.24
0
1
 11/10/87   13:33:20                                                                    PAGE   4

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO  .708

 3265 DIVIDED FLOW

      .71     1.21  1528.71      .00      .00  1528.76      .06     5.25      .00  1529.70
     161.      0.    161.       0.       0.     85.       0.       9.      18.   1530.50
      .52      .00    1.89      .00     .065     .050     .065     .000  1527.50  4755.36
  .011006     840.    840.     840.       5       0       0      .00   180.57  5025.54
0
 *SECNO  .828
      .83     2.56  1533.06      .00      .00  1533.18      .13     4.40      .02  1532.00
     350.      43.    243.      65.      38.     72.      57.      11.      21.   1532.00
      .59     1.14     3.36     1.14     .065     .050     .065     .000  1530.50  4903.80
  .005836     630.    630.     630.       6       0       0      .00   218.79  5122.59
0
 *SECNO  .970
      .97     2.66  1538.66      .00      .00  1538.86      .20     5.65      .02  1540.00
     350.      0.    350.       0.       0.     97.       0.      13.      24.   1540.00
      .65      .00    3.61      .00     .065     .050     .065     .000  1536.00  4973.43
  .010112     750.    750.     750.       3       0       0      .00    73.07  5046.50
1
 PROFILE FOR STREAM  CAP OVERCHUTE 7-EAST  (W


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1490.    1495.    1500.    1505.    1510.    1515.    1520.    1525.    1530.    1535.
    SECNO   CUMDIS

      .00      0.  C     I . L E    .       .       .       .       .       .       .       .       .
            100.  C       I  LWE  .       .       .       .       .       .       .       .       .
            200.  C       . I  LEM .       .       .       .       .       .       .       .       .
            300.  C       .   I  LE.       .       .       .       .       .       .       .       .
            400.  C       .     I  LE      .       .       .       .       .       .       .       .
            500.  C       .       I LE     .       .       .       .       .       .       .       .
            600.  C       .       . I WE   .       .       .       .       .       .       .       .
            700.  C       .       .   IER  .       .       .       .       .       .       .       .
      .16   800.  .       .       .    IER .       .       .       .       .       .       .       .
            900.  C       .       .     IER       .       .       .       .       .       .       .
           1000.  C       .       .       IE      .       .       .       .       .       .       .
           1100.  C       .       .       .I E    .       .       .       .       .       .       .
           1200.  C       .       .       . I E   .       .       .       .       .       .       .
           1300.  C       .       .       .   ILE .       .       .       .       .       .       .
           1400.  C       .       .       .     ILE.      .       .       .       .       .       .
           1500.  C       .       .       .     I WE      .       .       .       .       .       .
           1600.  C       .       .       .       IREM    .       .       .       .       .       .
      .31  1700.  C       .       .       .       .IREM   .       .       .       .       .       .
           1800.  C       .       .       .       .  IREM .       .       .       .       .       .
           1900.  C       .       .       .       .   IREL .       .       .       .       .       .
           2000.  C       .       .       .       .     IREL      .       .       .       .       .
           2100.  C                                          I E
```

```
.42  2200.  C     .     .     .     .     . I EML .     .     .     .     .
     2300.  C     .     .     .     .     .  I EML .     .     .     .     .
     2400.  C     .     .     .     .     .   I WEL.     .     .     .     .
     2500.  C     .     .     .     .     .    I WEL     .     .     .     .
     2600.  C     .     .     .     .     .     I .EL    .     .     .     .
     2700.  C     .     .     .     .     .       I  EL  .     .     .     .
     2800.  C     .     .     .     .     .       .I   E .     .     .     .
.55  2900.  C     .     .     .     .     .       .  I   E .     .     .     .
     3000.  C     .     .     .     .     .       .   I   ER.     .     .     .
     3100.  C     .     .     .     .     .       .     I  WE     .     .     .
     3200.  C     .     .     .     .     .       .     I  .ER    .     .     .
     3300.  C     .     .     .     .     .       .       I. ELR  .     .     .
     3400.  C     .     .     .     .     .       .        I  ELR .     .     .
     3500.  C     .     .     .     .     .       .        . I WELR .     .     .
     3600.  C     .     .     .     .     .       .        .  I  EL R.    .     .
     3700.  C     .     .     .     .     .       .        .   I  E LR    .     .
.71  3800.  C     .     .     .     .     .       .        .    I WEL.R   .     .
     3900.  C     .     .     .     .     .       .        .     I  ELR   .     .
     4000.  C     .     .     .     .     .       .        .      I  ELR  .     .
     4100.  C     .     .     .     .     .       .        .       I . EM .     .
     4200.  C     .     .     .     .     .       .        .        I. LE M .     .
     4300.  C     .     .     .     .     .       .        .         I  LWEM .     .
.83  4400.  C     .     .     .     .     .       .        .         .I  L E M.    .
     4500.  C     .     .     .     .     .       .        .         . I   L E M   .
     4600.  C     .     .     .     .     .       .        .         .  I  LE.M    .
     4700.  C     .     .     .     .     .       .        .         .   I   LE M  .
     4800.  C     .     .     .     .     .       .        .         .     I . ELM .
     4900.  C     .     .     .     .     .       .        .         .      I .  ELM .
     5000.  C     .     .     .     .     .       .        .         .        I   E LM .
.97  5100.  C     .     .     .     .     .       .        .         .        . I   WE L
```

1

THIS RUN EXECUTED 11/10/87 13:33:45

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 7-EAST (W

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
.000	485.00	1496.83	4560.95	4920.00	5025.00	5076.18	.00	438.45	3.33	1493.50	29.32	2.09
.159	161.00	1503.60	4775.00	4880.00	5060.00	5035.72	6.77	260.72	.60	1503.00	415.45	2.92
.311	161.00	1511.66	4867.12	4920.00	5040.00	5151.44	8.06	284.31	1.16	1510.50	40.24	1.54
.417	161.00	1516.85	4970.71	4950.00	5040.00	5120.41	5.20	130.55	.85	1516.00	425.27	3.47
.549	161.00	1523.46	4950.95	4950.00	5040.00	5039.24	6.61	88.29	1.96	1521.50	40.20	1.86
[illegible]	161.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

.828	350.00	1533.06	4903.80	4975.00	5015.00	5122.59	4.35	218.79	2.56	1530.50	58.36	3.36
.970	350.00	1538.66	4973.43	4960.00	5070.00	5046.50	5.60	73.07	2.66	1536.00	101.12	3.61

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .159 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .159 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= .159 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

1

THIS RUN EXECUTED 11/10/87 13:33:50

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**********************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
**********************************************
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T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 7-EAST (EAST SPLIT)

J1	ICHECK	INQ	NINV	IDIA	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	700.	1470.520	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

NC	.070	.070	.050	.100	.300	.000	.000	.000	.000	.000
X1	.000	6.000	4930.000	5020.000	.000	.000	.000	.000	.000	.000
X2	700.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1472.000	4770.000	1470.000	4930.000	1468.000	4980.000	1467.000	5000.000	1468.000	5020.000
GR	1471.500	5140.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.303	5.000	4960.000	5020.000	1600.000	1600.000	1600.000	.000	.000	.000
X2	250.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1485.000	4920.000	1484.000	4960.000	1482.500	5000.000	1484.000	5020.000	1486.000	5085.000
NC	.065	.065	.050	.000	.000	.000	.000	.000	.000	.000
X1	.445	3.000	4920.000	5050.000	750.000	750.000	750.000	.000	.000	.000
X2	270.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

```
GR   1492.000   4920.000   1488.000   5000.000   1492.000   5050.000       .000       .000       .000       .000

X1       .615      5.000   4970.000   5025.000    900.000    900.000    900.000       .000       .000       .000
X2    226.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1501.000   4920.000   1500.000   4970.000   1496.000   5000.000   1500.000   5025.000   1503.000   5335.000

X1       .738      3.000   4920.000   5040.000    650.000    650.000    650.000       .000       .000       .000
X2    214.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1508.000   4920.000   1504.000   5000.000   1508.000   5040.000       .000       .000       .000       .000
1
 11/10/87    13:33:49                                                                                    PAGE    2


X1       .890      5.000   4950.000   5050.000    750.000    800.000    800.000       .000       .000       .000
X2    214.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1516.000   4800.000   1515.000   4950.000   1512.000   5000.000   1514.000   5050.000   1516.000   5110.000

X1      1.041      4.000   4950.000   5080.000    800.000    800.000    800.000       .000       .000       .000
X2    189.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1524.000   4600.000   1522.000   4950.000   1520.000   5000.000   1522.500   5080.000       .000       .000

X1      1.058      7.000   4700.000   5030.000    850.000    850.000    850.000       .000       .000       .000
X2    189.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1529.700   4700.000   1528.000   4795.000   1527.500   4815.000   1528.000   4830.000   1529.500   4900.000
GR   1528.000   5000.000   1530.500   5090.000       .000       .000       .000       .000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
 11/10/87    13:33:49                                                                                    PAGE    3


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     3.52  1470.52      .00  1470.52  1470.62      .10      .00      .00  1470.00
     700.       5.     546.     149.      11.     197.     109.       0.       0.   1468.00
      .00      .48     2.77     1.37     .070     .050     .070     .000  1467.00  4888.40
  .003069       0.       0.       0.        0        0        0      .00   218.00  5106.40
0
 *SECNO  .303
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      .30     1.56  1484.06  1484.06      .00  1484.47      .41     7.49      .09  1484.00
     250.       0.     250.       0.       0.      48.       0.       7.       5.   1484.00
      .09      .04     5.16      .04     .070     .050     .070     .000  1482.50  4957.71
  .040182    1600.    1600.    1600.       20       18        0      .00    64.16  5021.86
0
 *SECNO  .445
      .44     2.66  1490.66      .00      .00  1490.72      .07     6.22      .03  1492.00
     238.       0.     238.       0.       0.     115.       0.       8.       6.   1492.00
      .19      .00     2.08      .00     .065     .050     .065     .000  1498.00  4946.88
  .003350     750.     750.     750.        5        0        0      .00    86.33  5033.20
0
 *SECNO  .615

 1645 INT SEC ADDED BY RAISING SEC       .62,  -6.000FT AND MULTIPLYING BY   2.020

      1.01     2.02  1492.02      .00      .00  1492.22      .27     1.50      .05  1496.00
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     235.      0.     235.      0.      0.     56.      0.      9.      7.   1494.00
      .20     .00     4.16     .00    .065    .050    .065    .000  1490.00  5051.08
   .019506    225.    225.    225.       2       0       0     .00    55.99  5107.07
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   2.000FT AND MULTIPLYING BY    .832

     1.02     2.61  1494.61     .00     .00  1494.74     .13    2.45     .01  1496.00
     232.      0.     232.      0.      0.     79.      0.      9.      7.   1496.00
      .22     .00     2.94     .00    .065    .050    .065    .000  1492.00  5021.48
   .006880    225.    225.    225.       4       0       0     .00    60.39  5081.87
0
1
 11/10/87    13:33:49                                                                PAGE    4


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.02,   2.000FT AND MULTIPLYING BY    .798

     1.03     2.55  1496.55     .00     .00  1496.78     .23    2.01     .03  1498.00
     229.      0.     229.      0.      0.     60.      0.      9.      7.   1498.00
      .24     .00     3.82     .00    .065    .050    .065    .000  1494.00  5001.57
   .012046    225.    225.    225.       2       0       0     .00    47.00  5048.57
0

 1645 INT SEC ADDED BY RAISING SEC      1.03,   2.000FT AND MULTIPLYING BY    .746

      .62     2.97  1498.97     .00     .00  1499.19     .22    2.41     .00  1500.00
     226.      0.     226.      0.      0.     60.      0.     10.      8.   1500.00
      .26     .00     3.75     .00    .065    .050    .065    .000  1496.00  4977.79
   .009567    225.    225.    225.       3       0       0     .00    40.71  5018.51
0
 *SECNO  .738
      .74     2.06  1506.06     .00     .00  1506.23     .18    7.04     .00  1508.00
     214.      0.     214.      0.      0.     63.      0.     10.      8.   1508.00
      .31     .00     3.37     .00    .065    .050    .065    .000  1504.00  4958.88
   .012466    650.    650.    650.       5       0       0     .00    61.68  5020.56
0
 *SECNO  .890
      .89     1.98  1513.98     .00     .00  1514.09     .11    7.85     .01  1515.00
     214.      0.     214.      0.      0.     82.      0.     12.     10.   1514.00
      .39     .00     2.62     .00    .065    .050    .065    .000  1512.00  4967.02
   .007916    750.    800.    800.       4       0       0     .00    82.45  5049.47
0
 *SECNO 1.041
     1.04     1.56  1521.56     .00     .00  1521.68     .12    7.59     .00  1522.00
     189.      0.     189.      0.      0.     69.      0.     13.     11.   1522.50
      .48     .00     2.74     .00    .065    .050    .065    .000  1520.00  4961.11
   .011894    800.    800.    800.       4       0       0     .00    88.67  5049.78
0
 *SECNO 1.059

 3265 DIVIDED FLOW

1
 11/10/87    13:33:49                                                                PAGE    5


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
```

TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.06	1.38	1528.88	.00	.00	1528.92	.04	7.23	.01	1529.70
189.	0.	189.	0.	0.	118.	0.	15.	14.	1530.50
.62	.00	1.60	.00	.065	.050	.065	.000	1527.50	4745.97
.006389	850.	850.	850.	6	0	0	.00	215.04	5031.58

0
1
PROFILE FOR STREAM CAP OVERCHUTE 7-EAST (EA

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

```
ELEVATION  1460.     1470.     1480.     1490.     1500.     1510.     1520.     1530.     1540.     1550.
   SECNO   CUMDIS

     .00      0.  C     IR LEM      .         .         .         .         .         .         .         .         .
            100.  C      IR.EM      .         .         .         .         .         .         .         .         .
            200.  C       IR EM     .         .         .         .         .         .         .         .         .
            300.  C        IR EM    .         .         .         .         .         .         .         .         .
            400.  C        .IR EM   .         .         .         .         .         .         .         .         .
            500.  C        . IRLEM  .         .         .         .         .         .         .         .         .
            600.  C        .  IRLEM .         .         .         .         .         .         .         .         .
            700.  C        .   IRWE .         .         .         .         .         .         .         .         .
            800.  C        .    IRWE .        .         .         .         .         .         .         .         .
            900.  C        .     IREM.        .         .         .         .         .         .         .         .
           1000.  C        .      IREM        .         .         .         .         .         .         .         .
           1100.  C        .       IREM       .         .         .         .         .         .         .         .
           1200.  C        .        IREM      .         .         .         .         .         .         .         .
           1300.  C        .         ILE      .         .         .         .         .         .         .         .
           1400.  C        .         .IWE     .         .         .         .         .         .         .         .
           1500.  C        .         . IWE    .         .         .         .         .         .         .         .
     .30   1600.  .        .         .  IEM   .         .         .         .         .         .         .         .
           1700.  C        .         .  I EM  .         .         .         .         .         .         .         .
           1800.  C        .         .   I EM .         .         .         .         .         .         .         .
           1900.  C        .         .    I EM.         .         .         .         .         .         .         .
           2000.  C        .         .    I  EM.        .         .         .         .         .         .         .
           2100.  C        .         .     I WEM        .         .         .         .         .         .         .
           2200.  C        .         .      I ELM       .         .         .         .         .         .         .
           2300.  C        .         .       I ELM      .         .         .         .         .         .         .
     .44   2400.  C        .         .       I .EL      .         .         .         .         .         .         .
           2500.  C        .         .        I.E L     .         .         .         .         .         .         .
    1.01   2600.  C        .         .         I E LM   .         .         .         .         .         .         .
           2700.  C        .         .         .I E LM  .         .         .         .         .         .         .
    1.02   2800.  C        .         .         . I  ELM .         .         .         .         .         .         .
           2900.  C        .         .         .  I WELM.         .         .         .         .         .         .
           3000.  C        .         .         .   I WELM.        .         .         .         .         .         .
    1.03   3100.  C        .         .         .   I  ELM.        .         .         .         .         .         .
           3200.  C        .         .         .    I  ELM        .         .         .         .         .         .
     .62   3300.  C        .         .         .     I  ELM       .         .         .         .         .         .
           3400.  C        .         .         .      I  ELM      .         .         .         .         .         .
           3500.  C        .         .         .       I .ELM     .         .         .         .         .         .
           3600.  C        .         .         .        I E L     .         .         .         .         .         .
           3700.  C        .         .         .        .I WEL    .         .         .         .         .         .
           3800.  C        .         .         .        . I WEL   .         .         .         .         .         .
     .74   3900.  C        .         .         .        .  I E L. .         .         .         .         .         .
           4000.  C        .         .         .        .   I E L.         .         .         .         .         .
           4100.  C        .         .         .        .    I E L         .         .         .         .         .
           4200.  C        .         .         .        .     I ERL        .         .         .         .         .
           4300.  C        .         .         .        .      I ERL       .         .         .         .         .
           4400.  C        .         .         .        .       I.ELM      .         .         .         .         .
           4500.  C                                                 I ELM
```

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        4600.  C      .      .      .      .      .I ELM  .      .      .      .      .
   .89  4700.  C      .      .      .      .      . I ELM .      .      .      .      .
        4800.  C      .      .      .      .      . I ELM .      .      .      .      .
        4900.  C      .      .      .      .      . I ELM .      .      .      .      .
        5000.  C      .      .      .      .      . I EL .      .      .      .      .
        5100.  C      .      .      .      .      . I EL.       .      .      .      .
        5200.  C      .      .      .      .      . I EM        .      .      .      .
        5300.  C      .      .      .      .      . I EM        .      .      .      .
        5400.  C      .      .      .      .      . I.EM        .      .      .      .
  1.04  5500.  C      .      .      .      .      . I ER        .      .      .      .
        5600.  C      .      .      .      .      . .IWE        .      .      .      .
        5700.  C      .      .      .      .      . .IEL        .      .      .      .
        5800.  C      .      .      .      .      . .IEL        .      .      .      .
        5900.  C      .      .      .      .      . .IEL        .      .      .      .
        6000.  C      .      .      .      .      . .I EL       .      .      .      .
        6100.  C      .      .      .      .      . .I ER       .      .      .      .
        6200.  C      .      .      .      .      . .I ER.      .      .      .      .
        6300.  C      .      .      .      .      . .IELR       .      .      .      .
  1.06  6400.  C      .      .      .      .      . .IELR       .      .      .      .
1
 11/10/87    13:33:49                                                          PAGE    6
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THIS RUN EXECUTED 11/10/87 13:34:16

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
*************************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 7-EAST (EA

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	700.00	1470.52	4888.40	4930.00	5020.00	5106.40	.00	218.00	3.52	1467.00	30.69	2.77
*	.303	250.00	1484.06	4957.71	4960.00	5020.00	5021.86	13.54	64.16	1.56	1482.50	401.82	5.16
	.445	238.00	1490.66	4946.88	4920.00	5050.00	5033.20	6.60	86.33	2.66	1488.00	33.50	2.08
*	.615	226.00	1498.97	4977.79	4970.00	5025.00	5018.51	2.42	40.71	2.97	1496.00	95.67	3.75
	.738	214.00	1506.06	4958.88	4920.00	5040.00	5020.56	7.09	61.68	2.06	1504.00	124.66	3.37
	.830	214.00	1513.98	4967.02	4950.00	5050.00	5049.47	7.92	82.45	1.98	1512.00	79.16	2.62
	1.041	189.00	1521.56	4961.11	4950.00	5080.00	5049.78	7.58	88.67	1.56	1520.00	118.94	2.74
	1.058	189.00	1528.88	4745.97	4700.00	5090.00	5031.58	7.32	215.04	1.38	1527.50	63.89	1.60

1
11/10/87 13:33:49 PAGE 7

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=     .303  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .303  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .303  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=     .615  PROFILE= 1  INTERPOLATED XSECTIONS USED
```

1

THIS RUN EXECUTED 11/10/87 13:34:18

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

INPUT FILE: CAP8EAST

OUTPUT FILE: CAP8EAST.OUT

THIS RUN EXECUTED 04/28/88 08:39:08

```
**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
**************************************************
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```
T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3      CAP OVERCHUTE 8-EAST  WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVING    Q        WSEL     FQ

      0.       0.       0.       0.   .000000     .00      .5     1260.  1412.900    .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000    .000     .000     .000     .000     .000     .000     .000     .000     .000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


    42.000    5.000   26.000    .000     .000     .000     .000     .000     .000     .000


NC      .065     .065     .050     .100     .300     .000     .000     .000     .000     .000
X1      .000   12.000 4980.000 5030.000     .000     .000     .000     .000     .000     .000
X2   1260.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1416.000 4250.000 1412.000 4640.000 1413.000 4740.000 1412.000 4805.000 1411.000 4840.000
GR   1412.000 4925.000 1414.000 4950.000 1412.000 4980.000 1409.500 5000.000 1412.000 5030.000
GR   1414.000 5090.000 1415.000 5390.000     .000     .000     .000     .000     .000     .000

NC      .000     .000     .000     .300     .500     .000     .000     .000     .000     .000
X1      .218    5.000 4980.000 5020.000 1150.000 1150.000 1150.000     .000     .000     .000
X2    780.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1421.500 4955.000 1420.000 4980.000 1418.000 5000.000 1420.000 5020.000 1421.500 5050.000

NC      .030     .030     .020     .000     .000     .000     .000     .000     .000     .000
X1      .436    4.000 4978.000 5022.000  180.000  180.000  180.000     .000     .000     .000
X3    10.000     .000     .000     .000     .000     .000     .000 1424.900 1424.900     .000
GR   1424.900 4978.000 1419.000 4978.000 1419.000 5022.000 1424.900 5022.000     .000     .000
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Jomax - Culverts

```
BT      1.250    1.600    2.600     .000   44.000    4.000  120.000     .000 1419.460 1419.000
NC      .050     .050     .040     .000     .000     .000     .000     .000     .000     .000
X1      .465    4.000 4978.000 5022.000  153.000  153.000  153.000     .000     .000     .000
X2      .000     .000    1.000 1422.500 1424.900     .000     .000     .000     .000     .000
X3    10.000     .000     .000     .000     .000     .000     .000 1424.900 1424.900     .000
BT      2.000 4978.000 1424.900 1422.460 5022.000 1424.900 1422.460     .000     .000     .000
GR   1424.900 4978.000 1419.460 4978.000 1419.460 5022.000 1424.900 5022.000     .000     .000
```

NC	.050	.050	.035	.100	.300	.000	.000	.000	.000	.000
X1	.493	5.000	4970.000	5035.000	150.000	150.000	150.000	.000	.000	.000
GR	1425.000	4930.000	1424.000	4970.000	1420.000	5000.000	1424.000	5035.000	1425.000	5130.000
X1	.578	5.000	4970.000	5030.000	450.000	450.000	450.000	.000	.000	.000
GR	1428.500	4940.000	1428.000	4970.000	1424.000	5000.000	1428.000	5030.000	1429.000	5100.000
X1	.748	5.000	4980.000	5020.000	900.000	900.000	900.000	.000	.000	.000
X2	730.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1435.000	4900.000	1432.000	4980.000	1431.000	5000.000	1432.000	5020.000	1436.000	5160.000
X1	1.014	5.000	4970.000	5020.000	1400.000	1400.000	1400.000	.000	.000	.000
GR	1446.000	4900.000	1444.000	4970.000	1441.000	5000.000	1444.000	5020.000	1446.500	5100.000
X1	1.269	4.000	4965.000	5050.000	1300.000	1350.000	1350.000	.000	.000	.000
X2	710.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1456.000	4965.000	1452.000	5000.000	1452.000	5050.000	1456.000	5080.000	.000	.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.411	5.000	4975.000	5010.000	720.000	720.000	750.000	.000	.000	.000
GR	1463.000	4940.000	1460.000	4975.000	1459.000	5000.000	1460.000	5010.000	1462.500	5120.000

DYNAMITE BLVD.

X1	1.582	6.000	4930.000	5020.000	880.000	880.000	900.000	.000	.000	.000
GR	1472.000	4770.000	1470.000	4930.000	1468.000	4980.000	1467.000	5000.000	1468.000	5020.000
GR	1471.500	5140.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.866	3.000	4920.000	5050.000	1500.000	1500.000	1500.000	.000	.000	.000
X2	382.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1484.000	4920.000	1480.000	5000.000	1484.000	5050.000	.000	.000	.000	.000
NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.021	6.000	4900.000	5040.000	780.000	820.000	820.000	.000	.000	.000
X2	378.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1496.000	4900.000	1492.000	4900.000	1489.000	5000.000	1491.000	5040.000	1492.000	5090.000
GR	1496.000	5175.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.163	3.000	4970.000	5050.000	750.000	750.000	750.000	.000	.000	.000
X2	374.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1500.000	4970.000	1496.000	5000.000	1500.000	5050.000	.000	.000	.000	.000
X1	2.286	5.000	4975.000	5020.000	630.000	650.000	650.000	.000	.000	.000
X2	374.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1508.000	4900.000	1504.000	4975.000	1502.000	5000.000	1504.000	5020.000	1508.000	5090.000
X1	2.423	5.000	4950.000	5030.000	720.000	720.000	720.000	.000	.000	.000
X2	370.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1516.000	4920.000	1512.000	4950.000	1510.000	5000.000	1512.000	5030.000	1516.000	5120.000

1

DIXLETA DR. (extended)

X1	2.669	5.000	4940.000	5050.000	1300.000	1300.000	1300.000	.000	.000	.000
X2	366.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1528.000	4860.000	1524.000	4940.000	1521.500	5000.000	1524.000	5050.000	1527.000	5190.000
NC	.050	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.801	5.000	4985.000	5020.000	700.000	700.000	700.000	.000	.000	.000
X2	362.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1532.000	4965.000	1528.000	4985.000	1526.000	5000.000	1528.000	5020.000	1532.000	5045.000
X1	2.966	3.000	4950.000	5030.000	870.000	870.000	870.000	.000	.000	.000
X2	357.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

```
GR   1540.000   4950.000   1536.000   5000.000   1540.000   5030.000       .000       .000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
 04/28/88    08:39:07                                                                                    PAGE    4


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000

 3265 DIVIDED FLOW

      .00     3.48  1412.98      .00  1412.98  1413.18      .20      .00      .00  1412.00
    1260.     698.     542.      20.     317.     111.      14.       0.       0.  1412.00
      .00     2.20     4.87     1.37     .065     .050     .065     .000  1409.50  4544.45
  .009263       0.       0.       0.        0        0        0      .00   483.59  5059.40
0
 CCHV=    .300 CEHV=    .500
 *SECNO  .218
 3280 CROSS SECTION       .22 EXTENDED       .59 FEET

      .22     4.09  1422.09      .00      .00  1422.41      .33     9.17      .06  1420.00
     780.      73.     620.      88.      33.     123.      40.       8.       8.  1420.00
      .07     2.18     5.02     2.19     .065     .050     .065     .000  1418.00  4955.00
  .006393    1150.    1150.    1150.        5        0        0      .00    95.00  5050.00

 *SECNO  .436

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1424.90 ELREA=     1424.90

      .44     3.44  1422.44      .00      .00  1422.85      .41      .40      .04  1424.90
     780.       0.     780.       0.       0.     152.       0.       9.       8.  1424.90
      .08      .00     5.15      .00     .030     .020     .030     .000  1419.00  4978.00
  .001120     180.     180.     180.        3        0        0      .00    44.00  5022.00
0

 SPECIAL BRIDGE

 SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.25     1.60     2.60      .00    44.00     4.00   120.00      .00   1419.46  1419.00

 *SECNO  .465
 PRESSURE FLOW

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 EGPRS     EGLWC     H3       QWEIR     QPR      BAREA   TRAPEZOID     ELLC     ELTRD
                                                           AREA
   1423.49  1423.11      .17       0.     780.     120.     122.    1422.50  1424.90
```

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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1424.90 ELREA=     1424.90

      .47     3.67  1423.13      .00      .00  1423.49      .36      .64      .00  1424.90
     780.       0.     780.       0.       0.     162.       0.      10.       8.   1424.90
      .09      .00     4.82      .00     .000     .040     .000     .000  1419.46  4978.00
   .003646     153.     153.     153.        2        0        0      .00    44.00  5022.00
0
 CCHV=    .100 CEHV=    .300
 *SECNO  .493
      .49     3.77  1423.77      .00      .00  1424.48      .71      .88      .10  1424.00
     780.       0.     780.       0.       0.     116.       0.      10.       8.   1424.00
      .10      .00     6.75      .00     .050     .035     .050     .000  1420.00  4971.72
   .010959     150.     150.     150.        2        0        0      .00    61.28  5033.00
0
 *SECNO  .578
      .58     4.10  1428.10      .00      .00  1428.69      .60     4.21      .01  1428.00
     780.       0.     780.       0.       0.     126.       0.      11.       9.   1428.00
      .12      .35     6.21      .35     .050     .035     .050     .000  1424.00  4964.35
   .008068     450.     450.     450.        3        0        0      .00    72.25  5036.60
0
 *SECNO  .748
      .75     2.91  1433.91      .00      .00  1434.23      .31     5.50      .03  1432.00
     730.      97.     506.     127.      49.      97.      64.      15.      11.   1432.00
      .18     1.98     5.24     1.98     .050     .035     .050     .000  1431.00  4928.98
   .004721     900.     900.     900.        5        0        0      .00   157.99  5086.97
0
 *SECNO 1.014

 1645 INT SEC ADDED BY RAISING SEC      1.01,  -5.000FT AND MULTIPLYING BY   1.183
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3301 HV CHANGED MORE THAN HVING

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      1.01     3.19  1439.19  1439.19      .00  1440.01      .82     5.38      .15  1439.00
     730.       1.     729.       1.       1.     100.       1.      17.      13.   1439.00
      .20      .76     7.27      .76     .050     .035     .050     .000  1436.00  4974.73
   .014630     700.     700.     700.        3        8        0      .00    74.55  5049.29
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   5.000FT AND MULTIPLYING BY    .846

      1.01     4.03  1445.03      .00      .00  1445.45      .43     5.40      .04  1444.00
     730.      24.     683.      22.      19.     126.      17.      20.      15.   1444.00
      .24     1.31     5.41     1.31     .050     .035     .050     .000  1441.00  4934.01
   .004754     700.     700.     700.        5        0        0      .00   118.90  5052.91
0
 *SECNO 1.269
      1.27     1.91  1453.91      .00      .00  1454.45      .53     8.96      .03  1456.00
     710.       0.     670.      40.       0.     112.      14.      24.      18.   1452.00
      .30      .00     6.00     2.88     .050     .035     .050     .000  1452.00  4983.25
   .010057    1300.    1350.    1350.        4        0        0      .00    81.12  5064.36
```

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*SECNO 1.411
     1.41     2.00  1461.00      .00      .00  1462.08      .28     7.60      .03  1460.00
     710.     145.     422.     142.      72.      80.      71.      27.      20.  1460.00
      .36     2.01     5.26     2.01     .070     .050     .070     .000  1459.00  4894.35
  .010410     720.     750.     720.        3        0        0      .00   194.50  5088.85
0
*SECNO 1.582
     1.58     3.02  1470.02      .00      .00  1470.21      .19     8.13      .01  1470.00
     710.       0.     575.     135.       0.     152.      70.      31.      24.  1468.00
      .43      .02     3.77     1.92     .070     .050     .070     .000  1467.00  4927.88
  .008003     880.     900.     880.        4        0        0      .00   161.60  5089.48
0
*SECNO 1.866
     1.87     2.62  1482.62      .00      .00  1482.81      .18    12.59      .00  1484.00
     382.       0.     382.       0.       0.     112.       0.      37.      28.  1484.00
      .55      .00     3.41      .00     .070     .050     .070     .000  1480.00  4947.51
  .003205    1500.    1500.    1500.        5        0        0      .00    85.29  5032.80
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK      ES       HV       HL    OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN     ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR   TOPWID     ENDST

*SECNO 2.021
     2.02     2.08  1491.08      .00      .00  1491.25      .17     8.44      .00  1492.00
     378.       0.     378.       0.       0.     114.       0.      39.      30.  1491.00
      .62      .00     3.30      .22     .080     .050     .080     .000  1489.00  4930.94
  .011604     780.     820.     820.        4        0        0      .00   112.65  5043.59
0
*SECNO 2.163
     2.16     3.08  1499.08      .00      .00  1499.32      .24     8.05      .02  1500.00
     374.       0.     374.       0.       0.      95.       0.      41.      31.  1500.00
      .67      .00     3.94      .00     .080     .050     .080     .000  1496.00  4976.90
  .009957     750.     750.     750.        3        0        0      .00    61.61  5038.51
0
*SECNO 2.286
     2.29     2.92  1504.92      .00      .00  1505.18      .26     5.85      .00  1504.00
     374.       8.     359.       7.       8.      86.       7.      43.      32.  1504.00
      .72     1.00     4.15     1.00     .080     .050     .080     .000  1502.00  4957.71
  .008184     630.     650.     650.        4        0        0      .00    78.43  5036.14
0
*SECNO 2.423
     2.42     2.21  1512.21      .00      .00  1512.44      .23     7.26      .00  1512.00
     370.       0.     370.       0.       0.      97.       1.      44.      34.  1512.00
      .77      .47     3.81      .47     .080     .050     .080     .000  1510.00  4948.41
  .012749     720.     720.     720.        4        0        0      .00    86.37  5034.78
0
*SECNO 2.669   DIXLETA DR (EXTENDED
     2.67     2.46  1523.96      .00      .00  1524.08      .12    11.63      .01  1524.00
     366.       0.     366.       0.       0.     132.       0.      48.      37.  1524.00
      .90      .00     2.76      .00     .080     .050     .080     .000  1521.50  4941.13
  .006601    1300.    1300.    1300.        4        0        0      .00   107.93  5049.06

*SECNO 2.801
     2.80     3.15  1529.15      .00      .00  1529.47      .33     5.33      .06  1528.00
     362.       6.     350.       6.       3.      75.       4.      49.      38.  1528.00
      .94     1.91     4.65     1.37     .050     .050     .070     .000  1526.00  4979.25
  .008912     700.     700.     700.        4        0        0      .00    47.93  5027.18
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2.966
     2.97     2.83  1538.83      .00      .00  1539.14      .31     9.66      .00  1540.00
     357.      0.     357.       0.       0.      80.       0.      51.      39.   1540.00
     1.00      .00     4.46      .00     .050     .050     .070     .000  1536.00  4964.63
   .014275    870.     870.     870.        4        0        0      .00    56.59  5021.22
0
1
 PROFILE FOR STREAM  CAP OVERCHUTE 8-EAST  WA


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1400.     1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.
     SECNO   CUMDIS

      .00      0.  C   IWEM .        .        .        .        .        .        .        .        .        .
            100.  C   ILEM .        .        .        .        .        .        .        .        .        .
            200.  C   I EM .        .        .        .        .        .        .        .        .        .
            300.  C    ILE .        .        .        .        .        .        .        .        .        .
            400.  C    ILEM.        .        .        .        .        .        .        .        .        .
            500.  C     IWE.        .        .        .        .        .        .        .        .        .
            600.  C     ILE.        .        .        .        .        .        .        .        .        .
            700.  C     ILE.        .        .        .        .        .        .        .        .        .
            800.  C      ILE        .        .        .        .        .        .        .        .        .
            900.  C      ILE        .        .        .        .        .        .        .        .        .
           1000.  C      ILWE       .        .        .        .        .        .        .        .        .
           1100.  C       ILE       .        .        .        .        .        .        .        .        .
      .22  1200.  C       ILE       .        .        .        .        .        .        .        .        .
           1300.  C       I.EM      .        .        .        .        .        .        .        .        .
      .44  1400.  C        IEL      .        .        .        .        .        .        .        .        .
      .47  1500.  C        I E      .        .        .        .        .        .        .        .        .
           1600.  C        I E      .        .        .        .        .        .        .        .        .
      .49  1700.  C        I EM     .        .        .        .        .        .        .        .        .
           1800.  C        I WE     .        .        .        .        .        .        .        .        .
           1900.  C        .I E     .        .        .        .        .        .        .        .        .
           2000.  C        .I WE    .        .        .        .        .        .        .        .        .
      .58  2100.  C        . I E    .        .        .        .        .        .        .        .        .
           2200.  C        . I WE   .        .        .        .        .        .        .        .        .
           2300.  C        .  ILE   .        .        .        .        .        .        .        .        .
           2400.  C        .  I E   .        .        .        .        .        .        .        .        .
           2500.  C        .   IWE  .        .        .        .        .        .        .        .        .
           2600.  C        .   ILE  .        .        .        .        .        .        .        .        .
           2700.  C        .   ILE  .        .        .        .        .        .        .        .        .
           2800.  C        .    IEM .        .        .        .        .        .        .        .        .
           2900.  C        .    ILE .        .        .        .        .        .        .        .        .
      .75  3000.  C        .     IEM.        .        .        .        .        .        .        .        .
           3100.  C        .     IWE.        .        .        .        .        .        .        .        .
           3200.  C        .     ILE.        .        .        .        .        .        .        .        .
           3300.  C        .      IEM.       .        .        .        .        .        .        .        .
           3400.  C        .      IWE.       .        .        .        .        .        .        .        .
           3500.  C        .      I EM       .        .        .        .        .        .        .        .
           3600.  C        .       IWE       .        .        .        .        .        .        .        .
     1.01  3700.  .        .       I EM      .        .        .        .        .        .        .        .
           3800.  C        .       I EM      .        .        .        .        .        .        .        .
           3900.  C        .        IWE      .        .        .        .        .        .        .        .
           4000.  C                 I EM
```

```
     4100.  C        .        I.WE      .         .         .         .         .         .         .         .
     4200.  C        .         ILE      .         .         .         .         .         .         .         .
     4300.  C        .         I EM     .         .         .         .         .         .         .         .
1.01 4400.  C        .         .ILE     .         .         .         .         .         .         .         .
     4500.  C        .         .ILE     .         .         .         .         .         .         .         .
     4600.  C        .         .I EM    .         .         .         .         .         .         .         .
     4700.  C        .         . ILE    .         .         .         .         .         .         .         .
     4800.  C        .         . IRE    .         .         .         .         .         .         .         .
     4900.  C        .         . IEM    .         .         .         .         .         .         .         .
     5000.  C        .         . IWE    .         .         .         .         .         .         .         .
     5100.  C        .         . IREM   .         .         .         .         .         .         .         .
     5200.  C        .         .  IEL   .         .         .         .         .         .         .         .
     5300.  C        .         .  IWE   .         .         .         .         .         .         .         .
     5400.  C        .         .   IEM  .         .         .         .         .         .         .         .
     5500.  C        .         .   IEL  .         .         .         .         .         .         .         .
     5600.  C        .         .   IWE  .         .         .         .         .         .         .         .
     5700.  C        .         .    IEL .         .         .         .         .         .         .         .
1.27 5800.  C        .         .    IEL .         .         .         .         .         .         .         .
     5900.  C        .         .    IWE .         .         .         .         .         .         .         .
     6000.  C        .         .     IEL.         .         .         .         .         .         .         .
     6100.  C        .         .     IRE.         .         .         .         .         .         .         .
     6200.  C        .         .      IEM         .         .         .         .         .         .         .
     6300.  C        .         .      ILE         .         .         .         .         .         .         .
     6400.  C        .         .       IEM        .         .         .         .         .         .         .
1.41 6500.  C        .         .        IE        .         .         .         .         .         .         .
     6600.  C        .         .        IEM       .         .         .         .         .         .         .
     6700.  C        .         .        ILE       .         .         .         .         .         .         .
     6800.  C        .         .        .IEM      .         .         .         .         .         .         .
     6900.  C        .         .        .ILE      .         .         .         .         .         .         .
     7000.  C        .         .        . IEM     .         .         .         .         .         .         .
     7100.  C        .         .        . ILE     .         .         .         .         .         .         .
     7200.  C        .         .        .  IEM    .         .         .         .         .         .         .
     7300.  C        .         .        .  ILE    .         .         .         .         .         .         .
1.59 7400.  C        .         .        .   IEM   .         .         .         .         .         .         .
     7500.  C        .         .        .   IWE   .         .         .         .         .         .         .
     7600.  C        .         .        .   IREM  .         .         .         .         .         .         .
     7700.  C        .         .        .    IEM  .         .         .         .         .         .         .
     7800.  C        .         .        .    IRE  .         .         .         .         .         .         .
     7900.  C        .         .        .     IEM .         .         .         .         .         .         .
     8000.  C        .         .        .     IRE .         .         .         .         .         .         .
     8100.  C        .         .        .      IEM.         .         .         .         .         .         .
     8200.  C        .         .        .      IEL.         .         .         .         .         .         .
     8300.  C        .         .        .      I EM         .         .         .         .         .         .
     8400.  C        .         .        .       IEL         .         .         .         .         .         .
     8500.  C        .         .        .       I E         .         .         .         .         .         .
     8600.  C        .         .        .        IEL        .         .         .         .         .         .
     8700.  C        .         .        .        IWE        .         .         .         .         .         .
     8800.  C        .         .        .         IEL       .         .         .         .         .         .
1.87 8900.  C        .         .        .         IEL       .         .         .         .         .         .
     9000.  C        .         .        .         .IEM      .         .         .         .         .         .
     9100.  C        .         .        .         .IEL      .         .         .         .         .         .
     9200.  C        .         .        .         . IEM     .         .         .         .         .         .
     9300.  C        .         .        .         . IELM    .         .         .         .         .         .
     9400.  C        .         .        .         .  IE M   .         .         .         .         .         .
     9500.  C        .         .        .         .  IELM   .         .         .         .         .         .
     9600.  C        .         .        .         .   IE M  .         .         .         .         .         .
     9700.  C        .         .        .         .   IWE M .         .         .         .         .         .
2.02 9800.  C        .         .        .         .    IE M .         .         .         .         .         .
     9900.  C        .         .        .         .    IELM .         .         .         .         .         .
    10000.  C        .         .        .         .    I E M.         .         .         .         .         .
    10100.  C        .         .        .         .     IELM.         .         .         .         .         .
    10200.  C        .         .        .         .     I EM.         .         .         .         .         .
    10300.  C        .         .        .         .      IEL.         .         .         .         .         .
    10400.  C        .         .        .         .      I EM         .         .         .         .         .
2.16 10500. C        .         .        .         .       I E         .         .         .         .         .
    10600.  C        .         .        .         .       I EM
```

```
        10700.  C     .     .     .     .     IWE   .     .     .     .     .
        10800.  C     .     .     .     .     I.EM  .     .     .     .     .
        10900.  C     .     .     .     .      IEM  .     .     .     .     .
        11000.  C     .     .     .     .      I EM .     .     .     .     .
        11100.  C     .     .     .     .      .IE M .     .     .     .     .
   2.29 11200.  C     .     .     .     .      .IWEM .     .     .     .     .
        11300.  C     .     .     .     .      . IE M .     .     .     .     .
        11400.  C     .     .     .     .      . IWEM .     .     .     .     .
        11500.  C     .     .     .     .      .  IE M .     .     .     .     .
        11600.  C     .     .     .     .      .  IWEM .     .     .     .     .
        11700.  C     .     .     .     .      .   IE M .     .     .     .     .
        11800.  C     .     .     .     .      .   IWEM .     .     .     .     .
   2.42 11900.  C     .     .     .     .      .    IE M .     .     .     .     .
        12000.  C     .     .     .     .      .    ILEM .     .     .     .     .
        12100.  C     .     .     .     .      .     IE M.     .     .     .     .
        12200.  C     .     .     .     .      .     IWEM.     .     .     .     .
        12300.  C     .     .     .     .      .      IE M     .     .     .     .
        12400.  C     .     .     .     .      .      IE M     .     .     .     .
        12500.  C     .     .     .     .      .       IE.M    .     .     .     .
        12600.  C     .     .     .     .      .       IE.M    .     .     .     .
        12700.  C     .     .     .     .      .        IEM    .     .     .     .
        12800.  C     .     .     .     .      .        IE M   .     .     .     .
        12900.  C     .     .     .     .      .        I.EM   .     .     .     .
        13000.  C     .     .     .     .      .         IE M  .     .     .     .
        13100.  C     .     .     .     .      .         I EM  .     .     .     .
   2.67 13200.  C     .     .     .     .      .         .IE M .     .     .     .
        13300.  C     .     .     .     .      .         .IE M .     .     .     .
        13400.  C     .     .     .     .      .         .I EM .     .     .     .
        13500.  C     .     .     .     .      .         . IE M .     .     .     .
        13600.  C     .     .     .     .      .         . IWEM .     .     .     .
        13700.  C     .     .     .     .      .         . ILEM .     .     .     .
        13800.  C     .     .     .     .      .         .  IE M .     .     .     .
   2.80 13900.  C     .     .     .     .      .         .  ILEM .     .     .     .
        14000.  C     .     .     .     .      .         .   IEM .     .     .     .
        14100.  C     .     .     .     .      .         .   ILEM .     .     .     .
        14200.  C     .     .     .     .      .         .    IEM .     .     .     .
        14300.  C     .     .     .     .      .         .    I EM .     .     .     .
        14400.  C     .     .     .     .      .         .     IWE .     .     .     .
        14500.  C     .     .     .     .      .         .     I EM.     .     .     .
        14600.  C     .     .     .     .      .         .      IWE.     .     .     .
   2.97 14700.  C     .     .     .     .      .         .       IWE     .     .     .
1
 04/28/88    08:39:07                                                                    PAGE    9


                                                                THIS RUN EXECUTED 04/28/88   08:39:48

 ************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ************************************************


 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 CAP OVERCHUTE 8-EAST  WA

 SUMMARY PRINTOUT


      SECNO      Q      CWSEL     SSTA     STCHL     STCHR     ENDST    DIFWSX    TOPWID     DEPTH     ELMIN     10K*S      VCH
```

.000	1260.00	1412.98	4544.45	4980.00	5030.00	5053.40	.00	483.59	3.48	1409.50	92.63	4.87
.218	780.00	1422.09	4955.00	4980.00	5020.00	5050.00	9.11	95.00	4.09	1418.00	63.93	5.02
.436	780.00	1422.44	4978.00	4978.00	5022.00	5022.00	.36	44.00	3.44	1419.00	11.20	5.15
.465	780.00	1423.13	4978.00	4978.00	5022.00	5022.00	.69	44.00	3.67	1419.46	36.46	4.82
.493	780.00	1423.77	4971.72	4970.00	5035.00	5033.00	.64	61.28	3.77	1420.00	109.59	6.75
.578	780.00	1428.10	4964.35	4970.00	5030.00	5036.60	4.33	72.25	4.10	1424.00	80.68	6.21
.748	730.00	1433.91	4928.98	4980.00	5020.00	5086.97	5.82	157.99	2.91	1431.00	47.21	5.24
* 1.014	730.00	1445.03	4934.01	4970.00	5020.00	5052.91	5.83	118.90	4.03	1441.00	47.54	5.41
1.269	710.00	1453.91	4983.25	4965.00	5050.00	5064.36	8.89	81.12	1.91	1452.00	100.57	6.00
1.411	710.00	1461.80	4894.35	4975.00	5010.00	5088.85	7.88	194.50	2.80	1459.00	104.10	5.26
1.582	710.00	1470.02	4927.88	4930.00	5020.00	5089.48	8.23	161.60	3.02	1467.00	80.03	3.77
1.866	382.00	1482.62	4947.51	4920.00	5050.00	5032.80	12.60	85.29	2.62	1480.00	92.05	3.41
2.021	378.00	1491.08	4930.94	4900.00	5040.00	5043.59	8.45	112.65	2.08	1489.00	116.04	3.30
2.163	374.00	1499.08	4976.90	4970.00	5050.00	5038.51	8.00	61.61	3.08	1496.00	99.57	3.94
2.286	374.00	1504.92	4957.71	4975.00	5020.00	5036.14	5.84	78.43	2.92	1502.00	81.84	4.15
2.423	370.00	1512.21	4948.41	4950.00	5030.00	5034.78	7.29	86.37	2.21	1510.00	127.49	3.81
2.669	366.00	1523.96	4941.13	4940.00	5050.00	5049.06	11.75	107.93	2.46	1521.50	66.01	2.76

1

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SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
2.801	362.00	1529.15	4979.25	4985.00	5020.00	5027.18	5.19	47.93	3.15	1526.00	89.12	4.65
2.966	357.00	1538.83	4964.63	4950.00	5030.00	5021.22	9.68	56.59	2.83	1536.00	142.75	4.46

1

04/28/88 08:39:07 PAGE 11

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 1.014 PROFILE= 1 INTERPOLATED XSECTIONS USED

1

04/28/88 08:39:51 PAGE 1

THIS RUN EXECUTED 04/28/88 08:39:51

****

HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984

ERROR CORR - 01,02,03,04,05,06

MODIFICATION - 50,51,52,53,54,55,56

IBM-PC-XT VERSION 1.1

****

INPUT FILE: CAP9EAST

OUTPUT FILE: CAP9EAST.OUT

THIS RUN EXECUTED 11/10/87 11:59:35

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3      CAP OVERCHUTE 9-EAST WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .000000     .00      .5    2006.  1371.930    .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000    .000     .000     .000     .000     .000     .000     .000     .000     .000

    VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


    42.000    5.000   26.000    .000     .000     .000     .000     .000     .000     .000
```

Happy Rd (Extended) below at Confluence w 5 EAST.

```
NC      .070     .080     .050     .100     .300     .000     .000     .000     .000     .000
X1      .000    8.000 4890.000 5040.000     .000     .000     .000     .000     .000     .000
X2   2006.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1373.000 4490.000 1372.000 4620.000 1368.000 4890.000 1368.000 4990.000 1367.500 5000.000
GR   1368.000 5010.000 1372.000 5030.000 1376.000 5040.000     .000     .000     .000     .000
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Above Confluence with 5 EAST

```
X1      .099    9.000 4660.000 4700.000  350.000  520.000  520.000     .000     .000     .000
X2    581.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1376.000 4330.000 1375.000 4545.000 1372.000 4660.000 1371.500 4680.000 1372.000 4700.000
GR   1372.000 4770.000 1371.500 4810.000 1372.000 4830.000 1374.000 4900.000     .000     .000

NC      .080     .080     .060     .000     .000     .000     .000     .000     .000     .000
X1      .216    7.000 4980.000 5025.000  580.000  620.000  620.000     .000     .000     .000
X2    568.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1380.000 4720.000 1379.000 4870.000 1376.000 4990.000 1375.500 5000.000 1376.000 5025.000
GR   1378.000 5190.000 1379.000 5440.000     .000     .000     .000     .000     .000     .000

[redacted]      .358    5.000 4970.000 5020.000  720.000  790.000  750.000     .000     .000     .000
[redacted]    568.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1386.000 4685.000 1384.000 4970.000 1380.000 5000.000 1384.000 5020.000 1385.000 5220.000
1
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X1      .512    5.000 4990.000 5020.000  800.000  820.000  820.000     .000     .000     .000
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X2	555.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1392.000	4650.000	1388.000	4980.000	1387.000	5000.000	1388.000	5020.000	1392.000	5210.000
X1	.741	5.000	4980.000	5015.000	1260.000	1160.000	1200.000	.000	.000	.000
X2	542.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1400.000	4845.000	1396.000	4980.000	1395.000	5000.000	1396.000	5015.000	1400.000	5165.000
X1	.917	8.000	4980.000	5015.000	890.000	970.000	930.000	.000	.000	.000
X2	529.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1406.000	4800.000	1404.000	4870.000	1404.000	4890.000	1405.500	4930.000	1404.000	4980.000
GR	1402.000	5000.000	1404.000	5015.000	1406.500	5070.000	.000	.000	.000	.000

N. of JOMAX RD.

X1	1.174	5.000	4970.000	5015.000	1360.000	1360.000	1360.000	.000	.000	.000
X2	503.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1417.500	4910.000	1416.000	4970.000	1415.000	5000.000	1416.000	5015.000	1417.500	5180.000
X1	1.424	5.000	4970.000	5030.000	1350.000	1260.000	1320.000	.000	.000	.000
X2	490.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1428.000	4850.000	1425.000	4970.000	1424.000	5000.000	1425.000	5030.000	1428.000	5220.000
X1	1.623	8.000	4830.000	5160.000	1050.000	1200.000	1050.000	.000	.000	.000
X2	477.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1436.000	4830.000	1432.000	4960.000	1432.000	5000.000	1436.000	5160.000	1437.000	5230.000
GR	1434.000	5725.000	1432.000	5800.000	1434.000	5850.000	.000	.000	.000	.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.898	5.000	4950.000	5050.000	1350.000	1200.000	1400.000	.000	.000	.000
X2	464.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1448.000	4840.000	1446.500	4950.000	1444.500	5000.000	1447.000	5050.000	1448.000	5540.000
X1	2.124	5.000	4950.000	5025.000	1250.000	1170.000	1230.000	.000	.000	.000
X2	438.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1460.000	4770.000	1456.000	4950.000	1454.000	5000.000	1456.000	5025.000	1458.500	5070.000

S. of Dynamite Rd.

X1	2.178	5.000	4950.000	5040.000	250.000	360.000	300.000	.000	.000	.000
X2	438.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1460.500	4900.000	1460.000	4950.000	1457.000	5000.000	1460.000	5040.000	1464.000	5230.000
X1	2.386	5.000	4970.000	5025.000	1100.000	1100.000	1100.000	.000	.000	.000
X2	425.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1472.000	4890.000	1470.000	4970.000	1469.000	5000.000	1471.000	5025.000	1472.000	5105.000
X1	2.604	6.000	4975.000	5035.000	1100.000	1050.000	1150.000	.000	.000	1.000
X2	425.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1484.500	4780.000	1484.000	4855.000	1483.000	4930.000	1484.000	4975.000	1481.000	5000.000
GR	1484.000	5035.000	.000	.000	.000	.000	.000	.000	.000	.000

1

X1	2.826	5.000	4990.000	5020.000	1150.000	1170.000	1170.000	.000	.000	.000
X2	399.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1496.000	4960.000	1492.000	4990.000	1491.000	5000.000	1492.000	5020.000	1496.000	5070.000
X1	3.044	5.000	4970.000	5050.000	1140.000	1150.000	1150.000	.000	.000	.000
X2	386.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1508.000	4870.000	1504.000	4970.000	1503.000	5000.000	1504.000	5050.000	1505.500	5120.000
X1	3.284	3.000	4935.000	5075.000	1250.000	1250.000	1270.000	.000	.000	.000
X2	360.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1520.000	4935.000	1517.000	5000.000	1520.000	5075.000	.000	.000	.000	.000

N. of DIXILETA BLVD.

X1	3.534	5.000	4990.000	5020.000	1320.000	1320.000	1320.000	.000	.000	.000
X2	347.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1536.000	4925.000	1532.000	4990.000	1530.000	5000.000	1532.000	5020.000	1536.000	5060.000

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X1      3.678      3.000   4950.000   5040.000    760.000    760.000    760.000       .000       .000       .000
X2    339.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1540.000   4950.000   1536.000   5000.000   1540.000   5040.000       .000       .000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000
      .00     4.43  1371.93      .00  1371.93  1372.01      .08      .00      .00  1368.00
    2006.     647.     1359.      0.     521.     515.      0.       0.       0.   1376.00
      .00     1.24     2.64      .00     .070     .050     .080     .000  1367.50  4624.72
  .001388       0.       0.       0.       0        0        0      .00   404.93  5029.65
0
*SECNO  .099
      .10     1.34  1372.84      .00      .00  1373.02      .18      .99      .03  1372.00
     581.      24.      203.     354.      14.      44.     137.      6.       3.   1372.00
      .04     1.76     4.64     2.58     .070     .050     .080     .000  1371.50  4627.61
  .021580     350.      520.     520.       3        0        0      .00   231.96  4859.57
0
*SECNO  .216
      .22     2.50  1378.00      .00      .00  1378.07      .07     5.04      .01  1376.00
     568.      89.      280.     199.      73.     101.     165.      10.      7.   1376.00
      .13     1.21     2.76     1.21     .080     .060     .080     .000  1375.50  4906.62
  .004218     580.      620.     620.       5        0        0      .00   283.72  5190.34
0
*SECNO  .358
      .36     3.93  1383.93      .00      .00  1384.47      .54     6.26      .14  1384.00
     568.       0.      568.       0.       0.      96.       0.      14.      10.   1384.00
      .16      .00     5.89      .00     .080     .060     .080     .000  1380.00  4970.53
  .023364     720.      750.     780.       3        0        0      .00    49.11  5019.65
0
*SECNO  .513
      .51     3.05  1390.05      .00      .00  1390.11      .06     5.59      .05  1388.00
     555.     184.      265.     106.     173.     102.     100.      18.      13.   1388.00
      .29     1.06     2.60     1.06     .080     .060     .080     .000  1387.00  4810.96
  .003169     800.      820.     820.       5        0        0      .00   306.36  5117.33
0
*SECNO  .741
      .74     2.49  1397.49      .00      .00  1397.82      .33     7.63      .08  1396.00
     542.      79.      376.      88.      38.      70.      42.      26.      19.   1396.00
      .37     2.10     5.39     2.10     .080     .060     .080     .000  1395.00  4929.68
  .018348    1260.    1200.    1160.       4        0        0      .00   141.23  5070.91
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO  .917
      .03     3.63  1405.63      .00      .00  1405.72      .10     7.07      .03  1404.00
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     529.     200.     297.      32.     157.      92.      29.      30.      23.   1404.00
      .48     1.28     3.24     1.11     .080     .060     .080     .000  1402.00  4813.28
  .004764     890.     930.     970.        4        0        0      .00   237.37  5050.65
0
 *SECNO 1.174
     1.17     2.09  1417.09      .00      .00  1417.35      .26    11.59      .05  1416.00
     503.      42.     345.     116.      24.      72.      65.      37.      30.   1416.00
      .57     1.77     4.82     1.77     .080     .060     .080     .000  1415.00  4926.39
  .020447     1360.    1360.    1360.        4        0        0      .00   208.53  5134.92
0
 *SECNO 1.424
     1.42     2.72  1426.72      .00      .00  1426.79      .07     9.42      .02  1425.00
     490.      60.     336.      94.      59.     133.      94.      44.      37.   1425.00
      .75     1.00     2.52     1.01     .080     .060     .080     .000  1424.00  4901.12
  .003575     1350.    1320.    1260.        5        0        0      .00   237.93  5139.06
0
 *SECNO 1.623

 3265 DIVIDED FLOW

     1.62     1.43  1433.43      .00      .00  1433.53      .10     6.73      .01  1436.00
     477.       0.     364.     113.       0.     133.      65.      50.      43.   1436.00
      .87      .00     2.75     1.75     .080     .060     .080     .000  1432.00  4913.26
  .013777     1050.    1050.    1200.        3        0        0      .00   234.16  5835.96
0
 *SECNO 1.888
     1.89     2.53  1447.03      .00      .00  1447.19      .16    13.64      .02  1446.50
     464.       8.     456.       0.      11.     141.       0.      55.      49.   1447.00
      .99      .76     3.22      .13     .070     .050     .070     .000  1444.50  4910.46
  .007420     1360.    1400.    1200.        4        0        0      .00   158.74  5069.20
0
 *SECNO 2.124
     2.12     2.58  1456.58      .00      .00  1456.78      .20     9.57      .01  1456.00
     438.       6.     429.       2.       7.     118.       3.      59.      53.   1456.00
     1.09      .84     3.64      .84     .070     .050     .070     .000  1454.00  4924.17
  .008196     1250.    1230.    1170.        3        0        0      .00   111.16  5035.33
0
1
 11/10/87    11:59:34                                                                PAGE    6


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 2.178
     2.18     2.64  1459.64      .00      .00  1459.91      .27     3.11      .02  1460.00
     438.       0.     438.       0.       0.     105.       0.      60.      53.   1460.00
     1.11      .00     4.17      .00     .070     .050     .070     .000  1457.00  4955.90
  .013596     250.     300.     360.        2        0        0      .00    79.38  5035.28
0
 *SECNO 2.386
     2.39     2.41  1471.41      .00      .00  1471.61      .20    11.69      .01  1470.00
     425.      62.     359.       5.      40.      93.       7.      63.      56.   1471.00
     1.19     1.56     3.87      .68     .070     .050     .070     .000  1469.00  4913.54
  .008485     1100.    1100.    1100.        6        0        0      .00   144.39  5057.93

 *SECNO 2.604

 3265 DIVIDED FLOW

     2.60     2.84  1483.84      .00      .00  1484.11      .28    12.47      .02  1484.00
     425.      61.     364.       0.      42.      81.       0.      66.      60.   1484.00
     1.27     1.46     6.52      .00     .070     .050     .070     .000  1481.00  4867.06
```

```
  .014580    1100.    1150.    1050.       4       0       0     .00   157.53  5033.13
0
 *SECNO 2.826
     2.83     3.09  1494.09     .00     .00  1494.32     .23   10.21     .00  1492.00
     399.      27.     327.     45.     16.     78.     27.     70.     63.   1492.00
     1.36     1.64     4.22    1.64    .070    .050    .070    .000  1491.00  4974.33
  .005678    1150.    1170.    1170.       5       0       0     .00    71.78  5046.11
0
 *SECNO 3.044
     3.04     1.60  1504.60     .00     .00  1504.96     .26   10.53     .01  1504.00
     386.      6.     370.     11.      4.     88.      8.     73.     66.   1504.00
     1.44     1.26     4.20    1.26    .070    .050    .070    .000  1503.00  4955.02
  .017644    1140.    1150.    1150.       4       0       0     .00   122.95  5077.97
0
 *SECNO 3.284
     3.28     2.31  1519.31     .00     .00  1519.44     .13   14.56     .01  1520.00
     360.      0.     360.      0.      0.    124.      0.     76.     69.   1520.00
     1.56      .00     2.90     .00    .070    .050    .070    .000  1517.00  4950.00
  .007863    1250.    1270.    1250.       4       0       0     .00   107.69  5057.69
0
1
 11/10/87    11:59:34                                                                    PAGE    7


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.534
     3.53     2.67  1532.67     .00     .00  1533.03     .36   13.53     .07  1532.00
     347.      11.     331.      5.      9.     67.      5.     79.     72.   1532.00
     1.63     1.22     4.95    1.22    .070    .050    .070    .000  1530.00  4953.99
  .014083    1320.    1320.    1320.       5       0       0     .00    79.43  5033.42
0
 *SECNO 3.678
     3.68     3.19  1539.19     .00     .00  1539.32     .14    6.27     .02  1540.00
     339.      0.     339.      0.      0.    114.      0.     81.     73.   1540.00
     1.71      .00     2.96     .00    .070    .050    .070    .000  1536.00  4960.13
  .005360     760.     760.     760.       5       0       0     .00    71.76  5031.89
0
1
 CROSS SECTION      2.60
 STREAM  CAP OVERCHUTE 9-EAST WAS
 DISCHARGE=      425.


 PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

 ELEV 1481.    1482.    1483.    1484.    1485.    1486.    1487.    1488.    1489.    1490.    1491.


    STA-FEET

 24780. .       .        .        .        X        .        .        .        .        .        .        .        .
  4785. .       .        .        .        X        .        .        .        .        .        .        .        .
  4790. .       .        .        .       X         .        .        .        .        .        .        .        .
  4795. .       .        .        .       X         .        .        .        .        .        .        .        .
  4800. .       .        .        .       X         .        .        .        .        .        .        .        .
  4805. .       .        .        .      X          .        .        .        .        .        .        .        .
  4810. .       .        .        .      X          .        .        .        .        .        .        .        .
  4815. .       .        .        .      X          .        .        .        .        .        .        .        .
  4820. .       .        .        .     X           .        .        .        .        .        .        .        .
  4825. .       .        .        .     X           .        .        .        .        .        .        .        .
  4830. .       .        .        .     X           .        .        .        .        .        .        .        .
```

```
 4835. .        .        .        .X       .        .        .        .        .        .        .        .
 4840. .        .        .        .X       .        .        .        .        .        .        .        .
 4845. .        .        .        .X       .        .        .        .        .        .        .        .
 4850. .        .        .        XE       .        .        .        .        .        .        .        .
34855. .        .        .        XE       .        .        .        .        .        .        .        .
 4860. .        .        .       X.E       .        .        .        .        .        .        .        .
 4865. .        .        .       X.E       .        .        .        .        .        .        .        .
 4870. .        .        .      X .E       .        .        .        .        .        .        .        .
 4875. .        .        .     XW .E       .        .        .        .        .        .        .        .
 4880. .        .        .     XW .E       .        .        .        .        .        .        .        .
 4885. .        .        .    X W .E       .        .        .        .        .        .        .        .
 4890. .        .        .   X  W .E       .        .        .        .        .        .        .        .
 4895. .        .        .   X  W .E       .        .        .        .        .        .        .        .
 4900. .        .        .  X   W .E       .        .        .        .        .        .        .        .
 4905. .        .        . X    W .E       .        .        .        .        .        .        .        .
 4910. .        .        . X    W .E       .        .        .        .        .        .        .        .
 4915. .        .        .X     W .E       .        .        .        .        .        .        .        .
 4920. .        .        .X     W .E       .        .        .        .        .        .        .        .
 4925. .        .        .X     W .E       .        .        .        .        .        .        .        .
44930. .        .        X      W .E       .        .        .        .        .        .        .        .
 4935. .        .        .X     W .E       .        .        .        .        .        .        .        .
 4940. .        .        .X     W .E       .        .        .        .        .        .        .        .
 4945. .        .        . X    W .E       .        .        .        .        .        .        .        .
 4950. .        .        .  X   W .E       .        .        .        .        .        .        .        .
 4955. .        .        .    X W .E       .        .        .        .        .        .        .        .
 4960. .        .        .     XW .E       .        .        .        .        .        .        .        .
 4965. .        .        .      X .E       .        .        .        .        .        .        .        .
 4970. .        .        .       X.E       .        .        .        .        .        .        .        .
54975. .        .        .        XE       .        .        .        .        .        .        .     BANK.
 4980. .        .        .  X   W .E       .        .        .        .        .        .        .        .
 4985. .        .      X .      W .E       .        .        .        .        .        .        .        .
 4990. .      . X      .      W .E       .        .        .        .        .        .        .        .
 4995. .    X  .        .      W .E       .        .        .        .        .        .        .        .
65000. X        .        .      W .E       .        .        .        .        .        .        .        .
 5005. .  X     .        .      W .E       .        .        .        .        .        .        .        .
 5010. .      X.         .      W .E       .        .        .        .        .        .        .        .
 5015. .      . X      .      W .E       .        .        .        .        .        .        .        .
 5020. .      .      X .      W .E       .        .        .        .        .        .        .        .
 5025. .      .        .X     W .E       .        .        .        .        .        .        .        .
 5030. .      .        .    X W .E       .        .        .        .        .        .        .        .
75035. .      .        .        XE       .        .        .        .        .        .        .     BANK.

NRD=      0 ELLC=  9999999.00 ELTRD=  9999999.00

 EL(I),STA(I)
   1484.50    4780.00    1484.00    4855.00    1483.00    4930.00    1484.00    4975.00    1481.00    5000.00
   1484.00    5035.00
1
PROFILE FOR STREAM  CAP OVERCHUTE 9-EAST WAS


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1360.    1380.    1400.    1420.    1440.    1460.    1480.    1500.    1520.    1540.
   SECNO   CUMDIS

    .00     0.  C  I EMR .        .        .        .        .        .        .        .        .
          100.  C  I EMR .        .        .        .        .        .        .        .        .
          200.  C   IER  .        .        .        .        .        .        .        .        .
          300.  C   IER  .        .        .        .        .        .        .        .        .
          400.  C   IEM  .        .        .        .        .        .        .        .        .
          500.  C    EM  .        .        .        .        .        .        .        .        .
    .10   600.  C    WE  .        .        .        .        .        .        .        .        .
          700.  C    IE
```

```
      800.  C    IEM .        .        .        .        .        .        .        .        .        .
      900.  C     IE .        .        .        .        .        .        .        .        .        .
     1000.  C     IEM.        .        .        .        .        .        .        .        .        .
     1100.  C     ILE.        .        .        .        .        .        .        .        .        .
 .22 1200.  C      IEM        .        .        .        .        .        .        .        .        .
     1300.  C      IEM        .        .        .        .        .        .        .        .        .
     1400.  C      ILE        .        .        .        .        .        .        .        .        .
     1500.  C       IEM       .        .        .        .        .        .        .        .        .
     1600.  C       ILE       .        .        .        .        .        .        .        .        .
     1700.  C       I.EM      .        .        .        .        .        .        .        .        .
     1800.  C        IWE      .        .        .        .        .        .        .        .        .
 .36 1900.  C        I EM     .        .        .        .        .        .        .        .        .
     2000.  C        I WE     .        .        .        .        .        .        .        .        .
     2100.  C        .ILE     .        .        .        .        .        .        .        .        .
     2200.  C        .I EM    .        .        .        .        .        .        .        .        .
     2300.  C        . IWE    .        .        .        .        .        .        .        .        .
     2400.  C        . ILEM   .        .        .        .        .        .        .        .        .
     2500.  C        .  IEM   .        .        .        .        .        .        .        .        .
     2600.  C        .  ILE   .        .        .        .        .        .        .        .        .
     2700.  C        .  ILEM  .        .        .        .        .        .        .        .        .
 .51 2800.  C        .   IEM  .        .        .        .        .        .        .        .        .
     2900.  C        .   IEM  .        .        .        .        .        .        .        .        .
     3000.  C        .   ILEM .        .        .        .        .        .        .        .        .
     3100.  C        .    IEM .        .        .        .        .        .        .        .        .
     3200.  C        .    IEM .        .        .        .        .        .        .        .        .
     3300.  C        .    ILEM.        .        .        .        .        .        .        .        .
     3400.  C        .     IEM.        .        .        .        .        .        .        .        .
     3500.  C        .     IEM.        .        .        .        .        .        .        .        .
     3600.  C        .     ILEM.       .        .        .        .        .        .        .        .
     3700.  C        .      IEM.       .        .        .        .        .        .        .        .
     3800.  C        .      IEM.       .        .        .        .        .        .        .        .
     3900.  C        .      IWEM       .        .        .        .        .        .        .        .
 .74 4000.  C        .       IEM       .        .        .        .        .        .        .        .
     4100.  C        .       IEM       .        .        .        .        .        .        .        .
     4200.  C        .       ILEM      .        .        .        .        .        .        .        .
     4300.  C        .        IEM      .        .        .        .        .        .        .        .
     4400.  C        .        IWE      .        .        .        .        .        .        .        .
     4500.  C        .        ILEM     .        .        .        .        .        .        .        .
     4600.  C        .         IEM     .        .        .        .        .        .        .        .
     4700.  C        .         ILE     .        .        .        .        .        .        .        .
     4800.  C        .         .IEM    .        .        .        .        .        .        .        .
 .92 4900.  C        .         .ILE    .        .        .        .        .        .        .        .
     5000.  C        .         .ILE    .        .        .        .        .        .        .        .
     5100.  C        .         . ILE   .        .        .        .        .        .        .        .
     5200.  C        .         . ILE   .        .        .        .        .        .        .        .
     5300.  C        .         .  IWE  .        .        .        .        .        .        .        .
     5400.  C        .         .  ILE  .        .        .        .        .        .        .        .
     5500.  C        .         .   IEM .        .        .        .        .        .        .        .
     5600.  C        .         .   ILE .        .        .        .        .        .        .        .
     5700.  C        .         .    IE .        .        .        .        .        .        .        .
     5800.  C        .         .    ILE.        .        .        .        .        .        .        .
     5900.  C        .         .     IE.        .        .        .        .        .        .        .
     6000.  C        .         .     IWE.       .        .        .        .        .        .        .
     6100.  C        .         .     IE.        .        .        .        .        .        .        .
1.17 6200.  C        .         .      IE.       .        .        .        .        .        .        .
     6300.  C        .         .      IE.       .        .        .        .        .        .        .
     6400.  C        .         .      IEM       .        .        .        .        .        .        .
     6500.  C        .         .       IE       .        .        .        .        .        .        .
     6600.  C        .         .       IE       .        .        .        .        .        .        .
     6700.  C        .         .       IEM      .        .        .        .        .        .        .
     6800.  C        .         .        IE      .        .        .        .        .        .        .
     6900.  C        .         .        IEM     .        .        .        .        .        .        .
     7000.  C        .         .        IWE     .        .        .        .        .        .        .
     7100.  C        .         .        .IE     .        .        .        .        .        .        .
     7200.  C        .         .        .IEM    .        .        .        .        .        .        .
     7300.  C                            .ILE
```

```
      7400.  C     .     .     . IEM   .     .     .     .     .     .     .
      7500.  C     .     .     . IEM   .     .     .     .     .     .     .
 1.42 7600.  C     .     .     . IEM   .     .     .     .     .     .     .
      7700.  C     .     .     . ILE   .     .     .     .     .     .     .
      7800.  C     .     .     .  IEM  .     .     .     .     .     .     .
      7900.  C     .     .     .  IEM  .     .     .     .     .     .     .
      8000.  C     .     .     .   IE  .     .     .     .     .     .     .
      8100.  C     .     .     .   IE  .     .     .     .     .     .     .
      8200.  C     .     .     .   IEL .     .     .     .     .     .     .
      8300.  C     .     .     .    IE .     .     .     .     .     .     .
      8400.  C     .     .     .    IEL.     .     .     .     .     .     .
      8500.  C     .     .     .    IEL.     .     .     .     .     .     .
 1.62 8600.  C     .     .     .     IEL     .     .     .     .     .     .
      8700.  C     .     .     .     IEL     .     .     .     .     .     .
      8800.  C     .     .     .      IEL.   .     .     .     .     .     .
      8900.  C     .     .     .      IEL.   .     .     .     .     .     .
      9000.  C     .     .     .       IEL   .     .     .     .     .     .
      9100.  C     .     .     .       IEL   .     .     .     .     .     .
      9200.  C     .     .     .        IE   .     .     .     .     .     .
      9300.  C     .     .     .        IEL  .     .     .     .     .     .
      9400.  C     .     .     .         IE  .     .     .     .     .     .
      9500.  C     .     .     .         IER .     .     .     .     .     .
      9600.  C     .     .     .         I E .     .     .     .     .     .
      9700.  C     .     .     .         .IEM.     .     .     .     .     .
      9800.  C     .     .     .         .I E.     .     .     .     .     .
      9900.  C     .     .     .         . IEM     .     .     .     .     .
 1.89 10000. C     .     .     .         . ILE     .     .     .     .     .
      10100. C     .     .     .         .  IE     .     .     .     .     .
      10200. C     .     .     .         .  IEM    .     .     .     .     .
      10300. C     .     .     .         .  ILE    .     .     .     .     .
      10400. C     .     .     .         .   IEM   .     .     .     .     .
      10500. C     .     .     .         .   IWE   .     .     .     .     .
      10600. C     .     .     .         .    IEM  .     .     .     .     .
      10700. C     .     .     .         .    IEM  .     .     .     .     .
      10800. C     .     .     .         .    ILE  .     .     .     .     .
      10900. C     .     .     .         .     IEM .     .     .     .     .
      11000. C     .     .     .         .     IEM .     .     .     .     .
      11100. C     .     .     .         .     ILEM.     .     .     .     .
 2.12 11200. C     .     .     .         .      IEM.     .     .     .     .
      11300. C     .     .     .         .       IEM     .     .     .     .
      11400. C     .     .     .         .       IEM     .     .     .     .
 2.18 11500. C     .     .     .         .        IE     .     .     .     .
      11600. C     .     .     .         .        IER    .     .     .     .
      11700. C     .     .     .         .         IE    .     .     .     .
      11800. C     .     .     .         .         IWE   .     .     .     .
      11900. C     .     .     .         .         .IE   .     .     .     .
      12000. C     .     .     .         .         .IWE  .     .     .     .
      12100. C     .     .     .         .          . IE .     .     .     .
      12200. C     .     .     .         .          . ILE.     .     .     .
      12300. C     .     .     .         .           . IE.     .     .     .
      12400. C     .     .     .         .           . ILE     .     .     .
      12500. C     .     .     .         .            . IE     .     .     .
 2.39 12600. C     .     .     .         .             IE .    .     .     .
      12700. C     .     .     .         .             IEM.    .     .     .
      12800. C     .     .     .         .              IE.    .     .     .
      12900. C     .     .     .         .              IEM.   .     .     .
      13000. C     .     .     .         .               IE.   .     .     .
      13100. C     .     .     .         .               IWE.  .     .     .
      13200. C     .     .     .         .                IE.  .     .     .
      13300. C     .     .     .         .                IWE  .     .     .
      13400. C     .     .     .         .                 IE  .     .     .
      13500. C     .     .     .         .                 ILE .     .     .
      13600. C     .     .     .         .                  IE .     .     .
      13700. C     .     .     .         .                  I E.     .     .
 2.60 13800. C     .     .     .         .                  .IE.     .     .
      13900. C                                               IEM
```

```
       14000.  C  .  .  .  .  .  .I E  .  .  .  .
       14100.  C  .  .  .  .  .  . IEM  .  .  .  .
       14200.  C  .  .  .  .  .  . ILE  .  .  .  .
       14300.  C  .  .  .  .  .  .  IEM  .  .  .  .
       14400.  C  .  .  .  .  .  .  ILE  .  .  .  .
       14500.  C  .  .  .  .  .  .  ILEM  .  .  .  .
       14600.  C  .  .  .  .  .  .  IWE  .  .  .  .
       14700.  C  .  .  .  .  .  .  ILEM  .  .  .  .
       14800.  C  .  .  .  .  .  .   IEM  .  .  .  .
       14900.  C  .  .  .  .  .  .   ILEM  .  .  .  .
  2.83 15000.  C  .  .  .  .  .  .    IEM  .  .  .  .
       15100.  C  .  .  .  .  .  .    ILE  .  .  .  .
       15200.  C  .  .  .  .  .  .     IEM.  .  .  .
       15300.  C  .  .  .  .  .  .     IWE.  .  .  .
       15400.  C  .  .  .  .  .  .      IEM  .  .  .
       15500.  C  .  .  .  .  .  .      IEM  .  .  .
       15600.  C  .  .  .  .  .  .       IE  .  .  .
       15700.  C  .  .  .  .  .  .       IEM  .  .  .
       15800.  C  .  .  .  .  .  .        IE  .  .  .
       15900.  C  .  .  .  .  .  .        IEM  .  .  .
       16000.  C  .  .  .  .  .  .        .IE  .  .  .
  3.04 16100.  C  .  .  .  .  .  .        . EM  .  .  .
       16200.  C  .  .  .  .  .  .        . IE  .  .  .
       16300.  C  .  .  .  .  .  .        .  WE  .  .  .
       16400.  C  .  .  .  .  .  .        .  IE  .  .  .
       16500.  C  .  .  .  .  .  .        .   IE  .  .  .
       16600.  C  .  .  .  .  .  .        .   IEM  .  .  .
       16700.  C  .  .  .  .  .  .        .    IE  .  .  .
       16800.  C  .  .  .  .  .  .        .    IEM  .  .  .
       16900.  C  .  .  .  .  .  .        .     IE  .  .  .
       17000.  C  .  .  .  .  .  .        .     I E  .  .  .
       17100.  C  .  .  .  .  .  .        .      IE  .  .  .
       17200.  C  .  .  .  .  .  .        .       IE.  .  .
       17300.  C  .  .  .  .  .  .        .       IEL  .  .
  3.28 17400.  C  .  .  .  .  .  .        .        IE  .  .
       17500.  C  .  .  .  .  .  .        .        IEM  .  .
       17600.  C  .  .  .  .  .  .        .        I.E  .  .
       17700.  C  .  .  .  .  .  .        .         IEM  .  .
       17800.  C  .  .  .  .  .  .        .         I E  .  .
       17900.  C  .  .  .  .  .  .        .         .IEM  .  .
       18000.  C  .  .  .  .  .  .        .         .I E  .  .
       18100.  C  .  .  .  .  .  .        .          . IEM  .  .
       18200.  C  .  .  .  .  .  .        .          . I E  .  .
       18300.  C  .  .  .  .  .  .        .           . IEM  .  .
       18400.  C  .  .  .  .  .  .        .           . I E  .  .
       18500.  C  .  .  .  .  .  .        .            . IEM  .  .
       18600.  C  .  .  .  .  .  .        .            . ILE  .  .
  3.53 18700.  C  .  .  .  .  .  .        .             . IWE  .  .
       18800.  C  .  .  .  .  .  .        .             . I E  .  .
       18900.  C  .  .  .  .  .  .        .              . IEM  .  .
       19000.  C  .  .  .  .  .  .        .              . I E  .  .
       19100.  C  .  .  .  .  .  .        .               . IEM.  .
       19200.  C  .  .  .  .  .  .        .               . IWE.  .
       19300.  C  .  .  .  .  .  .        .               . I E.  .
       19400.  C  .  .  .  .  .  .        .                . IEL  .
  3.68 19500.  C  .  .  .  .  .  .        .                . I E  .
```

MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION 1.1
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 9-EAST WAS

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
.000	2006.00	1371.93	4624.72	4890.00	5040.00	5029.65	.00	404.93	4.43	1367.50	13.88	2.64
.099	581.00	1372.84	4627.61	4660.00	4700.00	4859.57	.91	231.96	1.34	1371.50	215.80	4.64
.216	568.00	1378.00	4906.62	4980.00	5025.00	5190.34	5.17	283.72	2.50	1375.50	42.18	2.76
.358	568.00	1383.93	4970.53	4970.00	5020.00	5019.65	5.93	49.11	3.93	1380.00	233.64	5.89
.513	555.00	1390.05	4810.96	4980.00	5020.00	5117.33	6.12	306.36	3.05	1387.00	31.69	2.60
.741	542.00	1397.49	4929.68	4980.00	5015.00	5070.91	7.44	141.23	2.49	1395.00	189.48	5.39
.917	529.00	1405.62	4813.28	4980.00	5015.00	5050.65	8.13	237.37	3.62	1402.00	47.64	3.24
1.174	503.00	1417.09	4926.39	4970.00	5015.00	5134.92	11.47	208.53	2.09	1415.00	204.47	4.82
1.424	490.00	1426.72	4901.12	4970.00	5030.00	5139.06	9.63	237.93	2.72	1424.00	35.75	2.52
1.623	477.00	1433.43	4913.26	4930.00	5160.00	5035.96	6.71	234.16	1.43	1432.00	137.77	2.75
1.888	464.00	1447.03	4910.46	4950.00	5050.00	5069.20	13.60	158.74	2.53	1444.50	74.20	3.22
2.124	438.00	1456.58	4924.17	4950.00	5025.00	5035.33	9.54	111.16	2.58	1454.00	81.96	3.64
2.178	438.00	1459.64	4955.90	4950.00	5040.00	5035.28	3.07	79.38	2.64	1457.00	135.96	4.17
2.386	425.00	1471.41	4913.54	4970.00	5025.00	5057.93	11.77	144.39	2.41	1469.00	84.85	3.87
2.604	425.00	1483.84	4867.04	4975.00	5035.00	5033.13	12.42	157.53	2.84	1481.00	145.80	4.52
2.826	399.00	1494.09	4974.33	4990.00	5020.00	5046.11	10.25	71.78	3.09	1491.00	56.78	4.22
3.044	386.00	1504.60	4955.02	4970.00	5050.00	5077.97	10.51	122.95	1.60	1503.00	176.44	4.20

1

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
3.284	360.00	1519.31	4950.00	4935.00	5075.00	5057.69	14.71	107.69	2.31	1517.00	78.63	2.90
3.534	347.00	1532.67	4953.99	4980.00	5020.00	5033.42	13.36	79.43	2.67	1530.00	140.83	4.95
3.678	339.00	1539.19	4960.13	4950.00	5040.00	5031.89	6.52	71.76	3.19	1536.00	53.60	2.96

1

SUMMARY OF ERRORS AND SPECIAL NOTES

1

THIS RUN EXECUTED 11/10/87 12:00:28

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

INPUT FILE: CAP10EST

OUTPUT FILE: CAP10EST.OUT

THIS RUN EXECUTED 11/10/87 11:13:24

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************

T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3      CAP OVERCHUTE 10-EAST WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .000000     .00       .5    2044.  1355.410     .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000     .000     .000     .000     .000     .000     .000     .000     .000     .000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    39.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


    42.000    5.000   26.000     .000     .000     .000     .000     .000     .000     .000
```

Below Confluence 2 5 EAST – AT HAPPY Valley Rd (EXTENDED).

```
NC      .080     .090     .030     .100     .300     .000     .000     .000     .000     .000
X1      .000    8.000 4880.000 5090.000     .000     .000     .000     .000     .000     .000
X2   2044.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1357.000 4490.000 1356.000 4850.000 1354.000 4880.000 1353.000 5000.000 1354.000 5090.000
GR   1354.000 5370.000 1356.000 5505.000 1356.500 5635.000     .000     .000     .000     .000
```

ABOVE Confluence 2 5EAST – AT HAPPY Valley R.D.

```
NC      .070     .070     .050     .000     .000     .000     .000     .000     .000     .000
X1      .218   10.000 4930.000 5040.000 1080.000 1300.000 1200.000     .000     .000     .000
X2    703.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1364.000 4270.000 1361.500 4455.000 1364.000 4580.000 1360.000 4840.000 1360.000 4880.000
GR   1361.000 4930.000 1360.000 4970.000 1358.000 5000.000 1360.000 5040.000 1364.000 5280.000

X1      .468    9.000 4940.000 5050.000 1320.000 1320.000 1320.000     .000     .000     .000
GR   1376.000 4215.000 1372.000 4490.000 1374.500 4655.000 1372.100 4845.000 1372.500 4940.000
GR   1372.000 5000.000 1372.500 5050.000 1372.100 5100.000 1376.000 5320.000     .000     .000

X1      .635    8.000 4740.000 5100.000  900.000  900.000  880.000     .000     .000     .000
X2    639.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1382.000 3970.000 1380.000 4105.000 1380.000 4355.000 1379.000 4550.000 1380.000 4740.000
GR   1378.500 5000.000 1380.000 5100.000 1392.000 5250.000     .000     .000     .000     .000
1
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GR	1395.000	3940.000	1392.000	4150.000	1391.000	4200.000	1392.000	4250.000	1395.000	4480.000
GR	1392.000	4670.000	1391.500	4740.000	1392.000	4800.000	1393.000	4860.000	1392.000	4970.000
GR	1390.500	5000.000	1392.000	5030.000	1395.500	5290.000	.000	.000	.000	.000

JOMAX RD.

X1	1.142	8.000	4900.000	5120.000	1030.000	830.000	880.000	.000	.000	.000
X2	575.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	1405.000	4115.000	1404.000	4190.000	1403.000	4395.000	1403.000	4685.000	1404.000	4900.000
GR	1403.000	5000.000	1404.000	5120.000	1405.000	5200.000	.000	.000	.000	.000
X1	1.364	9.000	4940.000	5250.000	1190.000	1140.000	1170.000	.000	.000	.000
GR	1416.500	4380.000	1415.000	4470.000	1416.000	4560.000	1416.500	4800.000	1416.000	4940.000
GR	1415.000	5000.000	1415.000	5180.000	1416.000	5250.000	1416.500	5310.000	.000	.000
X1	1.640	7.000	4900.000	5040.000	1450.000	1340.000	1460.000	.000	.000	.000
X2	511.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1429.000	4800.000	1428.000	4835.000	1428.000	4900.000	1426.500	5000.000	1427.000	5040.000
GR	1428.000	5355.000	1429.000	5450.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.930	5.000	4980.000	5015.000	1500.000	1500.000	1530.000	.000	.000	.000
GR	1444.000	4530.000	1440.000	4980.000	1438.000	5000.000	1440.000	5015.000	1443.000	5375.000

DYNAMITE RD.

X1	2.169	5.000	4900.000	5055.000	1230.000	1250.000	1260.000	.000	.000	.000
X2	447.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1456.000	4840.000	1453.000	4980.000	1452.000	5000.000	1454.000	5055.000	1456.000	5140.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.411	5.000	4980.000	5015.000	1290.000	1250.000	1280.000	.000	.000	.000
GR	1468.000	4620.000	1464.000	4980.000	1462.000	5000.000	1464.000	5015.000	1468.000	5060.000
X1	2.629	5.000	4970.000	5040.000	1150.000	1100.000	1150.000	.000	.000	.000
X2	383.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	1480.000	4830.000	1476.000	4970.000	1472.000	5000.000	1476.000	5040.000	1480.000	5160.000
X1	2.786	3.000	4890.000	5040.000	740.000	860.000	830.000	.000	.000	.000
GR	1484.000	4890.000	1480.000	5000.000	1484.000	5040.000	.000	.000	.000	.000
NC	.070	.040	.040	.000	.000	.000	.000	.000	.000	.000
X1	2.904	6.000	4975.000	5010.000	570.000	640.000	620.000	.000	.000	.000
X2	319.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1492.000	4620.000	1488.000	4890.000	1488.000	4975.000	1496.000	5000.000	1488.000	5010.000
GR	1492.000	5100.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.060	.045	.000	.000	.000	.000	.000	.000	.000
X1	3.051	6.000	4985.000	5025.000	900.000	720.000	780.000	.000	.000	.000
X2	280.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1500.000	4830.000	1496.000	4930.000	1496.000	4985.000	1494.000	5000.000	1496.000	5025.000
GR	1500.000	5065.000	.000	.000	.000	.000	.000	.000	.000	.000

1

X1	3.197	6.000	4985.000	5020.000	750.000	780.000	770.000	.000	.000	.000
GR	1506.000	4870.000	1504.000	4985.000	1503.000	5000.000	1504.000	5020.000	1506.000	5105.000
GR	1508.000	5225.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	3.303	4.000	4940.000	5080.000	1200.000	1320.000	1330.000	.000	.000	.000
[illegible]2	224.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1512.000	4610.000	1510.000	4940.000	1509.000	5000.000	1512.000	5080.000	.000	.000

DIXILETA BLVD.

X1	3.445	6.000	4950.000	5020.000	740.000	760.000	750.000	.000	.000	.000
GR	1520.500	4850.000	1520.000	4910.000	1520.000	4950.000	1516.000	5000.000	1520.000	5020.000
GR	1521.500	5080.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	3.546	7.000	4900.000	5120.000	1310.000	1300.000	1300.000	.000	.000	.000

```
X2    168.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1529.000   4900.000  1524.000  5000.000  1527.000  5130.000      .000      .000      .000      .000

X1      3.697     3.000  4900.000  5125.000   820.000   750.000   800.000      .000      .000      .000
X2    191.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1536.000   4900.000  1532.000  5000.000  1536.000  5125.000      .000      .000      .000      .000
      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
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OVERWRITE

1

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 11/10/87    11:13:23                                                                          PAGE    4


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     2.41  1355.41      .00  1355.41  1355.48      .07      .00      .00  1354.00
    2044.     228.     961.     855.     164.     401.     462.       0.       0.  1354.00
      .00     1.39     2.40     1.85     .090     .090     .090     .000  1353.00  4647.34
  .008886       0.       0.       0.        0        0        0      .00   817.83  5465.18
0
 *SECNO  .218

 3265 DIVIDED FLOW

      .22     3.59  1361.59      .00      .00  1361.64      .05     6.16      .00  1361.00
     703.     193.     453.      58.     201.     225.      76.      21.      17.  1360.00
      .21      .96     2.01      .77     .070     .050     .070     .000  1358.00  4448.34
  .001772    1080.    1200.    1300.        3        0        0      .00   409.90  5135.40
0
 *SECNO  .468

 3265 DIVIDED FLOW

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      .47      .78  1372.78  1372.78      .00  1373.01      .23     6.86      .06  1372.50
     703.     310.     282.     111.     104.      58.      37.      32.      30.  1372.50
      .30     2.98     4.87     3.02     .070     .050     .070     .000  1372.00  4436.62
  .063236    1320.    1320.    1320.       20       21        0      .00   451.35  5138.16
0
 *SECNO  .635
      .63     1.62  1380.12      .00      .00  1380.14      .02     7.11      .02  1380.00
     639.     198.     440.       0.     267.     312.       1.      40.      45.  1380.00
      .51      .74     1.41      .17     .070     .050     .070     .000  1378.50  4097.18
  .002740     900.     880.     900.        7        0        0      .00  1011.51  5108.69
0
 *SECNO  .976
1
 11/10/87    11:13:23                                                                          PAGE    5


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW
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7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .99     1.67  1392.17  1392.17     .00  1392.44     .27    11.13     .07  1392.00
     639.     340.     299.      1.     127.      55.      1.      54.     69.  1392.00
      .62     2.67     5.40     .79     .070     .050    .070     .000  1390.50  4138.03
   .036931    1430.    1800.  1940.       4        8       0      .00   367.69  5042.70
0
 *SECNO 1.142

 3265 DIVIDED FLOW

      1.14     .86  1403.86     .00     .00  1403.98     .02    11.42     .02  1404.00
     575.     477.      98.      0.     401.      80.      0.      61.     83.  1404.00
      .85     1.19     1.22     .00     .070     .050    .070     .000  1403.00  4219.85
   .005251    1030.     880.   830.       4        0       0      .00   836.80  5102.52
0
 *SECNO 1.364

 3265 DIVIDED FLOW

      1.36     .68  1415.68     .00     .00  1415.85     .16    11.92     .04  1416.00
     575.      60.     515.      0.      35.     153.      0.      71.    100.  1416.00
      .96     1.70     3.36     .00     .070     .050    .070     .000  1415.00  4428.97
   .026947    1190.    1170.  1140.       4        0       0      .00   371.47  5227.87
0
 *SECNO 1.640
      1.64     1.68  1428.18     .00     .00  1428.22     .04    12.36     .01  1428.00
     511.       5.     289.    217.      12.     149.    214.      80.    114.  1427.00
     1.22      .41     1.94    1.01     .070     .050    .070     .000  1426.50  4828.89
   .003890    1450.    1460.  1340.       6        0       0      .00   542.71  5371.59

 *SECNO 1.930

 1645 INT SEC ADDED BY RAISING SEC      1.93,  -5.750FT AND MULTIPLYING BY   3.525

      1.01     1.90  1434.15     .00     .00  1434.48     .33     6.18     .09  1434.25
     511.       0.     511.      0.       0.     110.      0.      84.    120.  1434.25
     1.26      .00     4.63     .00     .060     .050    .060     .000  1432.25  6120.03
   .026191     750.     765.   750.       3        0       0      .00   116.66  6236.69
0
1
 11/10/87    11:13:23                                                                PAGE    6


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,   5.750FT AND MULTIPLYING BY    .284

      1.93     3.28  1441.28     .00     .00  1441.39     .11     6.89     .02  1440.00
     511.      114.     275.    122.      92.      80.     98.      87.    124.  1440.00
     1.35     1.24     3.45    1.24     .060     .050    .060     .000  1438.00  4836.05
   .004534     750.     765.   750.       5        0       0      .00   332.49  5168.54

 *SECNO 2.169
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      2.17     1.23  1453.23  1453.23     .00  1453.58     .36    12.07     .07  1453.00
     447.       1.     446.      0.       1.      93.      0.      92.    131.  1454.00
     1.42     1.18     4.79     .00     .060     .050    .060     .000  1452.00  4895.49
   .041004    1270     1260     1250       5       22       0      .00   138.22  5032.71
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```
0
 *SECNO 2.411
     2.41     3.54  1465.54      .00      .00  1465.68      .14     12.08      .02  1464.00
     447.     121.     311.      15.     106.      89.      13.      97.     136.  1464.00
     1.55     1.13     3.50     1.13     .070     .050     .070     .000  1462.00  4841.56
   .004049   1290.    1280.    1250.        7        0        0      .00   190.74  5032.30

 *SECNO 2.629
     2.63     2.62  1474.62  1474.59      .00  1475.25      .63     9.42      .15  1476.00
     383.       0.     383.       0.       0.      60.       0.     100.     139.  1476.00
     1.60      .00     6.35      .00     .070     .050     .070     .000  1472.00  4980.30
   .032001   1150.    1150.    1100.        6       19        0      .00    45.96  5026.26
0
 *SECNO 2.786

 1645 INT SEC ADDED BY RAISING SEC      2.79,  -4.000FT AND MULTIPLYING BY    .734


 3301 HV CHANGED MORE THAN HVINS

     1.01     3.19  1479.19      .00      .00  1479.30      .12     4.00      .05  1480.00
     383.       0.     383.       0.       0.     140.       0.     101.     139.  1480.00
     1.64      .00     2.74      .00     .070     .050     .070     .000  1476.00  4906.38
   .004579    370.     415.     430.        5        0        0      .00    87.73  4994.11
0
1
  11/10/87    11:13:23                                                                  PAGE    7


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
    Q        DLOB     DCH      DROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,   4.000FT AND MULTIPLYING BY   1.363

     2.79     2.26  1482.26      .00      .00  1482.51      .25     3.17      .04  1484.00
     383.       0.     383.       0.       0.      96.       0.     103.     140.  1484.00
     1.67      .00     3.98      .00     .070     .050     .070     .000  1480.00  4937.69
   .015206    370.     415.     430.        3        0        0      .00    84.97  5022.66
0
 *SECNO 2.904
     2.90     2.61  1488.61      .00      .00  1488.82      .21     6.31      .00  1488.00
     319.      75.     238.       6.      64.      56.       4.     104.     142.  1488.00
     1.72     1.18     4.23     1.40     .070     .040     .040     .000  1486.00  4849.06
   .006965    570.     620.     640.        6        0        0      .00   174.58  5023.65
0
 *SECNO 3.051
     3.05     2.31  1496.31  1496.26      .00  1496.66      .35     7.80      .04  1496.00
     280.      22.     258.       0.      18.      52.       0.     106.     145.  1496.00
     1.77     1.18     4.93      .89     .070     .045     .060     .000  1494.00  4922.27
   .015652    900.     780.     720.        9       12        0      .00   105.82  5028.09
0
 *SECNO 3.197
     3.20     1.41  1505.21      .00      .00  1505.35      .14     8.67      .02  1504.00
     280.      60.     169.      52.      43.      46.      31.     108.     147.  1504.00
     1.84     1.41     3.66     1.64     .070     .045     .060     .000  1503.80  4915.08
   .008524    750.     770.     780.        5        0        0      .00   156.61  5071.68
0
 *SECNO 3.303
     3.30     1.78  1510.78      .00      .00  1510.82      .04     5.46      .01  1510.00
     224.      27.     197.       0.      50.     119.       0.     112.     153.  1512.00
     2.08      .53     1.66      .00     .070     .045     .060     .000  1503.00  4811.48
   .002207   1300.    1230.    1220.        5        0        0      .00   235.96  5047.46
```

```
0
 *SECNO 3.445
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     3.44     2.09  1518.09  1518.09      .00  1518.62      .54     4.10      .15  1520.00
     224.       0.     224.       0.       0.     38.       0.     114.     155.   1520.00
     2.12      .00     5.88      .00     .070     .045     .060     .000  1516.00  4973.91
   .030254     740.     750.     760.       20       11        0      .00    36.52  5010.43
0
1
 11/10/87    11:13:23                                                                    PAGE    8


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.546

 1645 INT SEC ADDED BY RAISING SEC      3.55,  -4.000FT AND MULTIPLYING BY    .638

     1.01     2.37  1522.37      .00      .00  1522.42      .05     3.75      .05  1525.00
     196.       0.     196.       0.       0.     114.       0.     115.     156.   1523.00
     2.22      .00     1.72      .00     .070     .045     .060     .000  1520.00  4933.54
   .002176     655.     640.     640.        6        0        0      .00    95.86  5029.41
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   4.000FT AND MULTIPLYING BY   1.567

     3.55     1.23  1525.23      .00      .00  1525.42      .19     2.96      .04  1529.00
     168.       0.     168.       0.       0.      48.       0.     116.     157.   1527.00
     2.27      .00     3.49      .00     .070     .045     .060     .000  1524.00  4975.35
   .021353     655.     640.     640.        3        0        0      .00    78.05  5053.40
0
 *SECNO 3.697
     3.70     1.69  1533.69      .00      .00  1533.78      .09     8.34      .01  1536.00
     191.       0.     191.       0.       0.      80.       0.     117.     159.   1536.00
     2.36      .00     2.38      .00     .070     .045     .060     .000  1532.00  4957.78
   .006513     820.     800.     750.        5        0        0      .00    95.00  5052.78
0
1
 PROFILE FOR STREAM  CAP OVERCHUTE 10-EAST WA



 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1340.     1360.     1380.     1400.     1420.     1440.     1460.     1480.     1500.     1520.
     SECNO   CUMDIS

      .00      0.  C      IE .        .         .         .         .         .         .         .         .         .
            200.  C      IEM.        .         .         .         .         .         .         .         .         .
            400.  C      ILEM        .         .         .         .         .         .         .         .         .
            600.  C       IEM        .         .         .         .         .         .         .         .         .
            800.  C       ILEM       .         .         .         .         .         .         .         .         .
           1000.  C        IEM       .         .         .         .         .         .         .         .         .
      .22  1200.  C        IREM      .         .         .         .         .         .         .         .         .
           1400.  C         ILEM     .         .         .         .         .         .         .         .         .
           1600.  C         .IWEM    .         .         .         .         .         .         .         .         .
           1800.  C         . IE M   .         .         .         .         .         .         .         .         .
           2000.  C         .  IE M  .         .         .         .         .         .         .         .         .
           2200.  C          .  IE M
```

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     2400. C      .  IEM .       .       .       .       .       .       .       .       .
 .47 2600. .      .  WEM .       .       .       .       .       .       .       .       .
     2800. C      .   E M.       .       .       .       .       .       .       .       .
     3000. C      .   IEM.       .       .       .       .       .       .       .       .
     3200. C      .    IEM       .       .       .       .       .       .       .       .
 .63 3400. C      .    IEM       .       .       .       .       .       .       .       .
     3600. C      .     IEM      .       .       .       .       .       .       .       .
     3800. C      .     .EM      .       .       .       .       .       .       .       .
     4000. C      .     .IEM     .       .       .       .       .       .       .       .
     4200. C      .     . IEM    .       .       .       .       .       .       .       .
     4400. C      .     . E M    .       .       .       .       .       .       .       .
     4600. C      .     . IEM    .       .       .       .       .       .       .       .
     4800. C      .     .  IEM   .       .       .       .       .       .       .       .
     5000. C      .     .   WEM  .       .       .       .       .       .       .       .
 .98 5200. .      .     .   IE M .       .       .       .       .       .       .       .
     5400. C      .     .    WEM.        .       .       .       .       .       .       .
     5600. C      .     .     IEM        .       .       .       .       .       .       .
     5800. C      .     .      EM        .       .       .       .       .       .       .
     6000. C      .     .      .EM       .       .       .       .       .       .       .
1.14 6200. C      .     .      . EM      .       .       .       .       .       .       .
     6400. C      .     .      .  E      .       .       .       .       .       .       .
     6600. C      .     .      .   E     .       .       .       .       .       .       .
     6800. C      .     .      .    E    .       .       .       .       .       .       .
     7000. C      .     .      .     E   .       .       .       .       .       .       .
     7200. C      .     .      .      E  .       .       .       .       .       .       .
1.36 7400. C      .     .      .       E .       .       .       .       .       .       .
     7600. C      .     .      .       IE.       .       .       .       .       .       .
     7800. C      .     .      .        IE       .       .       .       .       .       .
     8000. C      .     .      .        EM       .       .       .       .       .       .
     8200. C      .     .      .        .EM      .       .       .       .       .       .
     8400. C      .     .      .        .IEM     .       .       .       .       .       .
     8600. C      .     .      .        . IE     .       .       .       .       .       .
1.64 8800. C      .     .      .        .  IEM   .       .       .       .       .       .
     9000. C      .     .      .        .   IEM  .       .       .       .       .       .
     9200. C      .     .      .        .    IEM .       .       .       .       .       .
     9400. C      .     .      .        .     WEM .       .       .       .       .       .
1.01 9600. C      .     .      .        .     IE M.       .       .       .       .       .
     9800. C      .     .      .        .      IEM.       .       .       .       .       .
    10000. C      .     .      .        .       IEM       .       .       .       .       .
    10200. C      .     .      .        .       ILEM      .       .       .       .       .
1.93 10400. C      .     .      .        .        ILEM     .       .       .       .       .
    10600. C      .     .      .        .         ILEM    .       .       .       .       .
    10800. C      .     .      .        .         .ILEM   .       .       .       .       .
    11000. C      .     .      .        .         . IWEM  .       .       .       .       .
    11200. C      .     .      .        .         .  IWEM .       .       .       .       .
    11400. C      .     .      .        .         .   WEM .       .       .       .       .
2.17 11600. .      .     .      .        .         .    IEM .      .       .       .       .
    11800. C      .     .      .        .         .     IEM.      .       .       .       .
    12000. C      .     .      .        .         .      IEM      .       .       .       .
    12200. C      .     .      .        .         .      ILEM     .       .       .       .
    12400. C      .     .      .        .         .       IWEM    .       .       .       .
    12600. C      .     .      .        .         .        IWEM   .       .       .       .
2.41 12800. C      .     .      .        .         .        .ILEM  .       .       .       .
    13000. C      .     .      .        .         .        . ILEM .       .       .       .
    13200. C      .     .      .        .         .        .  IWEM .       .       .       .
    13400. C      .     .      .        .         .        .   IE M .      .       .       .
    13600. C      .     .      .        .         .        .   I E M .     .       .       .
    13800. C      .     .      .        .         .        .    I E M.     .       .       .
2.63 14000. .      .     .      .        .         .        .     IWE M    .       .       .
    14200. C      .     .      .        .         .        .      IWEM    .       .       .
1.01 14400. C      .     .      .        .         .        .       I E    .       .       .
    14600. C      .     .      .        .         .        .        IEL   .       .       .
2.79 14800. C      .     .      .        .         .        .         IEL  .       .       .
    15000. C      .     .      .        .         .        .         .IEL .       .       .
    15200. C      .     .      .        .         .        .         . IE M       .       .
2.90 15400. C      .     .      .        .         .        .          IE M
```

```
      15600.  C      .      .      .      .      .      .      .  IE M  .      .      .
      15800.  C      .      .      .      .      .      .      .  IE M .      .      .
      16000.  C      .      .      .      .      .      .      .  IE M.       .      .
   3.05 16200.  .    .      .      .      .      .      .      .  IE M        .      .
      16400.  C      .      .      .      .      .      .      .   IE.M       .      .
      16600.  C      .      .      .      .      .      .      .    WEM       .      .
      16800.  C      .      .      .      .      .      .      .    .IE       .      .
   3.20 17000.  C    .      .      .      .      .      .      .    . IE      .      .
      17200.  C      .      .      .      .      .      .      .    . IE      .      .
      17400.  C      .      .      .      .      .      .      .    . EM      .      .
      17600.  C      .      .      .      .      .      .      .    . IE      .      .
      17800.  C      .      .      .      .      .      .      .    . IEM     .      .
      18000.  C      .      .      .      .      .      .      .    . IE      .      .
      18200.  C      .      .      .      .      .      .      .    . IER     .      .
   3.30 18400.  C    .      .      .      .      .      .      .    . ER      .      .
      18600.  C      .      .      .      .      .      .      .    . IER     .      .
      18800.  C      .      .      .      .      .      .      .    . IEL     .      .
      19000.  C      .      .      .      .      .      .      .    . IWE.    .      .
   3.44 19200.  .    .      .      .      .      .      .      .    . IEL     .      .
      19400.  C      .      .      .      .      .      .      .    . IEL     .      .
      19600.  C      .      .      .      .      .      .      .    . IERL    .      .
   1.01 19800.  C    .      .      .      .      .      .      .    . IERL    .      .
      20000.  C      .      .      .      .      .      .      .    .IEL      .      .
      20200.  C      .      .      .      .      .      .      .    .IERL     .      .
   3.55 20400.  C    .      .      .      .      .      .      .    . IERL    .      .
      20600.  C      .      .      .      .      .      .      .    . IEL     .      .
      20800.  C      .      .      .      .      .      .      .    . IEL     .      .
      21000.  C      .      .      .      .      .      .      .    . IEL     .      .
   3.70 21200.  C    .      .      .      .      .      .      .    . IEL     .
1
 11/10/87    11:13:23                                                          PAGE    9


                                                                THIS RUN EXECUTED 11/10/87   11:14:11
 ************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
 ************************************************

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 10-EAST WA

SUMMARY PRINTOUT
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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	2044.00	1355.41	4647.34	4880.00	5090.00	5465.18	.00	817.83	2.41	1353.00	88.86	2.40
	.218	703.00	1361.59	4448.34	4930.00	5040.00	5135.40	6.18	409.90	3.59	1358.00	17.72	2.01
*	.468	703.00	1372.78	4436.62	4940.00	5050.00	5138.16	11.19	451.35	.78	1372.00	632.36	4.87
	.635	639.00	1380.12	4037.18	4740.00	5100.00	5108.69	7.34	1011.51	1.62	1378.50	27.40	1.41
*	.976	639.00	1392.17	4138.03	4970.00	5030.00	5042.70	12.05	367.69	1.67	1390.50	369.31	5.40
	1.142	575.00	1403.86	4219.85	4980.00	5120.00	5102.52	11.69	836.80	.86	1403.00	52.51	1.22

	1.364	575.00	1415.68	4428.97	4940.00	5250.00	5227.87	11.82	371.47	.68	1415.00	269.47	3.36
	1.640	511.00	1428.18	4828.89	4900.00	5040.00	5371.59	12.50	542.71	1.68	1426.50	38.90	1.94
*	1.930	511.00	1441.28	4836.05	4980.00	5015.00	5168.54	7.13	332.49	3.28	1438.00	45.34	3.45
	2.169	447.00	1453.23	4895.49	4900.00	5055.00	5033.71	11.94	138.22	1.23	1452.00	419.94	4.79
	2.411	447.00	1465.54	4841.56	4980.00	5015.00	5032.30	12.32	190.74	3.54	1462.00	40.49	3.50
	2.629	383.00	1474.62	4980.30	4970.00	5040.00	5026.26	9.09	45.96	2.62	1472.00	320.01	6.35
*	2.786	383.00	1482.26	4937.69	4890.00	5040.00	5022.66	3.08	84.97	2.26	1480.00	152.06	3.98
	2.904	319.00	1488.61	4849.06	4975.00	5010.00	5023.65	6.34	174.58	2.61	1486.00	69.65	4.23
	3.051	280.00	1496.31	4922.27	4985.00	5025.00	5028.09	7.70	105.82	2.31	1494.00	156.52	4.93
	3.197	280.00	1505.21	4915.08	4985.00	5020.00	5071.68	8.90	156.61	1.41	1503.90	85.24	3.66
	3.303	224.00	1510.78	4811.48	4940.00	5080.00	5047.44	5.57	235.96	1.78	1509.00	22.07	1.66

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
*	3.445	224.00	1518.09	4973.91	4950.00	5020.00	5010.43	7.31	36.52	2.09	1516.00	302.54	5.88
*	3.546	168.00	1525.23	4975.35	4900.00	5130.00	5053.40	2.86	78.05	1.23	1524.00	213.53	3.49
	3.697	191.00	1533.69	4957.78	4900.00	5125.00	5052.78	8.46	95.00	1.69	1532.00	65.19	2.38

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=     .468  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .468  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .468  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=     .976  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .976  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.930  PROFILE= 1  INTERPOLATED XSECTIONS USED

CAUTION  SECNO=    2.169  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.169  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    2.786  PROFILE= 1  INTERPOLATED XSECTIONS USED

CAUTION  SECNO=    3.445  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    3.445  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    3.445  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    3.546  PROFILE= 1  INTERPOLATED XSECTIONS USED
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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
*************************************************


T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3      EAST BRANCH OF SPLIT FLOW

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .000000     .00      .5     405.  1488.820    .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLOC    IBW      CHNIM    ITRACE

    -1.000    .000     .000     .000     .000     .000     .000     .000     .000     .000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    39.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


    42.000    5.000   26.000    .000     .000     .000     .000     .000     .000     .000


NC      .060     .060     .045     .100     .300     .000     .000     .000     .000     .000
X1     4.112    6.000 4975.000 5010.000  570.000  640.000  620.000     .000     .000     .000
X2   319.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1492.000 4620.000 1488.000 4890.000 1488.000 4975.000 1486.000 5000.000 1488.000 5010.000
GR  1492.000 5100.000     .000     .000     .000     .000     .000     .000     .000     .000

X1     4.259    3.000 4440.000 4550.000  880.000  900.000  880.000     .000     .000     .000
X2    38.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1500.000 4440.000 1496.000 4510.000 1500.000 4550.000     .000     .000     .000     .000

X1     4.511    3.000 3800.000 4030.000 1150.000 1150.000 1150.000     .000     .000     .000
X2    30.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1512.000 3900.000 1508.000 3930.000 1512.000 4030.000     .000     .000     .000     .000

X1     4.754    3.000 4765.000 4900.000 1340.000 1340.000 1340.000     .000     .000     .000
X2    23.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1527.000 4765.000 1525.000 4830.000 1529.000 4900.000     .000     .000     .000     .000
EJ     .000     .000     .000     .000     .000     .000     .000     .000     .000     .000
1
 11/10/87    11:14:15                                                                    PAGE    2


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO 4.112
    4.11     2.82  1488.82     .00  1488.82  1488.92     .10     .00     .00  1488.00
    319      115      197       7       92       64       9       0       0  1488.00
```

```
      .00     1.25     3.10      .86     .060     .045     .060     .000  1486.00  4834.65
   .003999    570.     620.     640.        0        0        0      .00   193.79  5028.45
0
 *SECNO 4.259
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     4.26      .86  1496.86  1496.86      .00  1497.08      .22     4.10      .04  1500.00
      38.       0.       38.       0.       0.      10.       0.       2.       2.  1500.00
      .06      .00     3.77      .00     .060     .045     .060     .000  1496.00  4495.01
   .040484    880.     880.     900.       20       17        0      .00    23.55  4518.56
0
 *SECNO 4.511
     4.51      .92  1508.92      .00      .00  1508.94      .02    11.85      .02  1512.00
      30.       0.       30.       0.       0.      24.       0.       2.       3.  1512.00
      .33      .00     1.23      .00     .060     .045     .060     .000  1508.00  3900.04
   .003889   1150.    1150.    1150.        6        0        0      .00    53.00  3953.04
0
 *SECNO 4.754
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     4.75      .55  1525.55  1525.55      .00  1525.69      .14    10.91      .04  1527.00
      23.       0.       23.       0.       0.       8.       0.       3.       4.  1529.00
      .45      .00     3.03      .00     .060     .045     .060     .000  1525.00  4812.08
   .046902   1340.    1340.    1340.       20       14        0      .00    27.56  4839.65
0
1
 11/10/87    11:14:15                                                                    PAGE    3
```

```
                                                                THIS RUN EXECUTED 11/10/87   11:14:25
 ************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ************************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

EAST BRANCH OF SPLIT FLO

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	4.112	319.00	1488.82	4834.65	4975.00	5010.00	5028.45	.00	193.79	2.82	1486.00	39.93	3.10
*	4.259	38.00	1496.86	4495.01	4440.00	4550.00	4518.56	8.04	23.55	.86	1496.00	404.84	3.77
	4.511	30.00	1508.92	3900.04	3800.00	4030.00	3953.04	12.06	53.00	.92	1508.00	38.89	1.23
*	4.754	23.00	1525.55	4812.08	4765.00	4900.00	4839.65	16.63	27.56	.55	1525.00	469.02	3.03

```
1
 11/10/87    11:14:15                                                                    PAGE    4
```

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=     4.259  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     4.259  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     4.259  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=     4.754  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     4.754  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     4.754  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

1

THIS RUN EXECUTED 11/10/87 11:14:27

```
*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
*************************************************
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INPUT FILE: CAP11EST

OUTPUT FILE: CAP11EST.OUT

THIS RUN EXECUTED 11/11/87 10:07:18

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

PADDELFORD WASH

```
T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS  (100 YEAR EVENT)
T3      CAP OVERCHUTE 11-EAST WASH (PADELFORD WASH)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVING    Q        WSEL     FQ

      0.       0.       0.       0.   .000000     .00      .5     1094.  1412.300    .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000    .000     .000     .000     .000     .000     .000     .000     .000     .000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000

    42.000    5.000   26.000    .000     .000     .000     .000     .000     .000     .000
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AT LAKE BONITA

```
NC      .080     .080     .050     .300     .500     .000     .000     .000     .000     .000
X1      .000    9.000  4965.000 5015.000     .000     .000     .000     .000     .000     .000
GR   1416.000 4070.000 1408.000 4130.000 1408.000 4320.000 1404.000 4965.000 1403.500 5000.000
GR   1404.000 5015.000 1408.000 5310.000 1412.000 5355.000 1416.000 5375.000    .000     .000
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BULLARD AVE

```
X1      .141   10.000  4530.000 5065.000  745.000  745.000  745.000     .000     .000     .000
X2   1094.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1413.000 4470.000 1412.000 4590.000 1410.000 4740.000 1409.000 4930.000 1409.000 5000.000
GR   1412.000 5065.000 1412.000 5150.000 1411.500 5300.000 1412.000 5350.000 1413.500 5630.000

NC      .000     .000     .000     .100     .300     .000     .000     .000     .000     .000
X1      .306    9.000  4915.000 5040.000 1050.000  750.000  870.000     .000     .000     .000
X2   1094.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1416.500 4670.000 1416.000 4730.000 1416.000 4790.000 1414.000 4800.000 1416.000 4915.000
GR   1416.000 4970.000 1413.500 5000.000 1416.000 5040.000 1420.000 5245.000    .000     .000

X1      .471    8.000  4570.000 5090.000  900.000  850.000  870.000     .000     .000     .000
X2   1094.000    .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1424.500 4465.000 1424.000 4570.000 1422.000 4785.000 1420.000 4975.000 1419.000 5000.000
GR   1420.000 5020.000 1424.000 5090.000 1428.000 5115.000    .000     .000     .000     .000
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1

X2	1034.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1428.500	4790.000	1428.000	4870.000	1425.000	5000.000	1428.000	5050.000	1429.000	5125.000
GR	1428.000	5200.000	1432.000	5320.000	.000	.000	.000	.000	.000	.000
X1	.725	10.000	4960.000	5150.000	660.000	720.000	680.000	.000	.000	.000
X2	1034.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1436.000	4375.000	1432.000	4830.000	1432.000	4915.000	1432.000	4915.000	1432.000	4915.000
GR	1433.000	4935.000	1432.000	4960.000	1429.500	5000.000	1432.000	5090.000	1436.000	5150.000
X1	.832	5.000	4900.000	5020.000	510.000	540.000	565.000	.000	.000	.000
X2	1034.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1437.500	4735.000	1436.000	4900.000	1435.000	5000.000	1436.000	5020.000	1440.000	5050.000
X1	1.020	10.000	4950.000	5030.000	960.000	1040.000	990.000	.000	.000	.000
X2	820.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1445.000	4530.000	1444.000	4645.000	1443.000	4675.000	1444.000	4710.000	1444.500	4780.000
GR	1444.000	4850.000	1443.000	4950.000	1441.000	5000.000	1444.000	5030.000	1448.000	5265.000

Dynamite Blvd.

X1	1.158	6.000	4800.000	5095.000	800.000	690.000	730.000	.000	.000	.000
X2	810.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1452.000	4695.000	1451.000	4800.000	1448.000	5000.000	1450.000	5095.000	1448.000	5200.000
GR	1451.000	5350.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.323	7.000	4960.000	5370.000	890.000	890.000	870.000	.000	.000	.000
X2	800.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1459.000	4810.000	1456.600	4920.000	1458.000	4960.000	1456.500	5000.000	1458.000	5100.000
GR	1458.000	5370.000	1460.000	5635.000	.000	.000	.000	.000	.000	.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.448	9.000	4875.000	5080.000	640.000	720.000	660.000	.000	.000	.000
X2	795.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1465.000	4875.000	1464.000	4980.000	1462.000	5000.000	1464.000	5020.000	1465.000	5080.000
GR	1464.000	5140.000	1463.000	5155.000	1464.000	5185.000	1465.000	5250.000	.000	.000
X1	1.553	8.000	4800.000	5120.000	555.000	555.000	555.000	.000	.000	.000
X2	795.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1472.000	4800.000	1469.000	4875.000	1468.000	4980.000	1468.000	5000.000	1468.000	5020.000
GR	1470.000	5120.000	1470.000	5320.000	1472.000	5610.000	.000	.000	.000	.000
X1	1.655	7.000	4925.000	5120.000	600.000	480.000	540.000	.000	.000	.000
X2	790.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1476.000	4740.000	1472.000	4870.000	1474.500	4925.000	1472.000	4980.000	1471.500	5000.000
GR	1472.000	5030.000	1475.500	5120.000	.000	.000	.000	.000	.000	.000
X1	1.750	6.000	4750.000	5160.000	500.000	500.000	500.000	.000	.000	.000
X2	790.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1481.000	4620.000	1480.000	4750.000	1475.000	4920.000	1474.500	5000.000	1480.000	5160.000
GR	1481.000	5240.000	.000	.000	.000	.000	.000	.000	.000	.000

1

X1	1.904	8.000	4865.000	5130.000	740.000	820.000	815.000	.000	.000	.000
X2	780.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1488.000	4550.000	1487.000	4700.000	1486.000	4865.000	1484.000	4975.000	1483.000	5000.000
GR	1484.000	5020.000	1488.000	5130.000	1489.000	5220.000	.000	.000	.000	.000
X1	2.043	5.000	4895.000	5190.000	740.000	650.000	730.000	.000	.000	.000
X2	770.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1496.000	4620.000	1494.000	4895.000	1492.000	5000.000	1494.000	5190.000	1494.500	5225.000
NC	.070	.070	.040	.000	.000	.000	.000	.000	.000	.000
X1	2.213	6.000	4825.000	5110.000	820.000	960.000	890.000	.000	.000	.000
X2	765.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1504.000	4610.000	1502.000	4825.000	1500.000	4975.000	1502.500	5000.000	1503.000	5020.000

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GR   1504.000   5110.000      .000      .000      .000      .000      .000      .000      .000      .000
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DIXILETA BLVD.

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X1      2.395      7.000   4935.000   5065.000    950.000    970.000    960.000      .000      .000      .000
X2    755.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1512.500   4915.000   1512.000   4935.000   1508.000   4985.000   1508.000   5000.000   1508.000   5040.000
GR   1512.000   5065.000   1512.500   5120.000       .000       .000       .000       .000       .000       .000

X1      2.532      6.000   4860.000   5110.000    680.000    730.000    725.000      .000      .000      .000
X2    755.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1520.000   4610.000   1516.000   4860.000   1516.000   4975.000   1516.000   5000.000   1516.000   5060.000
GR   1520.000   5110.000       .000       .000       .000       .000       .000       .000       .000       .000

X1      2.650     12.000   4980.000   5065.000    610.000    650.000    620.000      .000      .000      .000
X2    750.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1526.000   4775.000   1524.000   4880.000   1524.000   4900.000   1524.500   4930.000   1524.000   4980.000
GR   1522.000   5000.000   1524.000   5020.000   1524.500   5065.000   1524.000   5140.000   1523.000   5170.000
GR   1524.000   5200.000   1528.000   5285.000       .000       .000       .000       .000       .000       .000
```

AT OVERCHUTE

```
X1      2.806      8.000   4920.000   5025.000    980.000    760.000    825.000      .000      .000      .000
X2    741.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1534.000   4825.000   1532.000   4920.000   1528.000   4990.000   1528.000   5000.000   1528.000   5010.000
GR   1528.000   5010.000   1532.000   5025.000   1534.000   5125.000       .000       .000       .000       .000
EJ      .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
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```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        DLOB     DCH      DROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*PROF 1

CCHV=    .300 CEHV=    .500
*SECNO  .000
      .00     8.00  1412.30      .00  1412.30  1412.30      .00      .00      .00  1404.00
    1034.      692.      123.      288.     4950.      428.     1962.       0.       0.   1404.00
      .00      .14      .29      .14     .080     .050     .080     .000  1403.50  4097.75
  .000005       0.       0.       0.        0        0        0      .00  1258.75  5356.50
0
*SECNO  .141
      .14     3.31  1412.31      .00      .00  1412.32      .01      .01      .01  1412.00
    1034.       1.     1056.      37.       6.     1079.      168.      73.      18.   1412.00
      .22      .10      .98      .22     .080     .050     .080     .000  1403.00  4552.94
  .000363      745.      745.      745.        2        0        0      .00   886.47  5439.41
0
CCHV=    .100 CEHV=    .300
*SECNO  .306
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .31     2.55  1416.05  1416.05      .00  1416.43      .38     1.13      .11  1416.00
    1034.      573.      521.       0.      134.       93.       0.      88.      30.   1416.00
      .27     4.29     5.59      .04     .080     .050     .080     .000  1413.50  4724.55
  .052416     1050.      870.      750.       20       14        0      .00   317.78  5042.33

*SECNO  .471
      .47     3.63  1422.63      .00      .00  1422.70      .06     6.24      .03  1424.00
    1034.       0.     1094.       0.       0.      536.       0.      96.      37.   1424.00
      .39      .00     2.04      .00     .080     .050     .080     .000  1419.00  4716.07
  .002869      900.      870.      850.        4        0        0      .00   350.15  5066.22
0
*SECNO  .597
```

```
1645 INT SEC ADDED BY RAISING SEC      .60,  -4.000FT AND MULTIPLYING BY   1.230

     1.01     2.63  1423.63      .00      .00  1423.92      .28     1.16      .07  1424.00
    1094.       0.    1094.       0.       0.     256.       0.      98.      38.   1425.00
      .40      .00     4.28      .00     .080     .050     .080     .000  1421.00  4907.99
  .014386     220.     222.     247.        2        0        0      .00   194.23  5102.21
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11/11/87    10:07:17                                                                PAGE    5

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1645 INT SEC ADDED BY RAISING SEC      1.01,   2.000FT AND MULTIPLYING BY    .907


3265 DIVIDED FLOW

     1.02     3.06  1426.06      .00      .00  1426.25      .19     2.32      .01  1426.00
    1094.       0.    1094.       0.       0.     312.       0.      99.      40.   1427.00
      .42      .15     3.51      .11     .080     .050     .080     .000  1423.00  4869.66
  .007974     220.     222.     247.        3        0        0      .00   220.95  5248.90
0

1645 INT SEC ADDED BY RAISING SEC      1.02,   2.000FT AND MULTIPLYING BY    .897


265 DIVIDED FLOW

      .60     3.03  1428.03      .00      .00  1428.27      .25     2.01      .02  1428.00
    1094.       0.    1094.       0.       0.     275.       0.     101.      41.   1429.00
      .44      .02     3.98      .02     .080     .050     .080     .000  1425.00  4865.59
  .010349     220.     222.     247.        2        0        0      .00   189.38  5200.83
0
 *SECNO  .725

3265 DIVIDED FLOW

      .73     3.39  1432.89      .00      .00  1433.05      .15     4.76      .01  1432.00
    1094.     142.     952.       0.     140.     285.       0.     106.      45.   1436.00
      .50     1.02     3.34      .00     .080     .050     .080     .000  1429.50  4728.26
  .005071     660.     680.     720.        5        0        0      .00   370.40  5103.42
0
 *SECNO  .932
      .83     2.16  1437.16      .00      .00  1437.49      .34     4.39      .05  1436.00
    1094.     112.     974.       8.      74.     199.       5.     111.      49.   1436.00
      .53     1.52     4.90     1.51     .080     .050     .080     .000  1435.00  4772.54
  .013821     510.     565.     540.        4        0        0      .00   256.15  5028.69
0
 *SECNO 1.020
     1.02     3.51  1444.51      .00      .00  1444.63      .12     7.12      .02  1443.00
     820.     217.     600.       4.     218.     186.       8.     119.      57.   1444.00
      .64     1.00     3.23      .46     .080     .050     .080     .000  1441.00  4586.49
  .003852     960.     990.    1040.        4        0        0      .00   473.40  5059.89
0
1
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11/11/87    10:07:17                                                                PAGE    6

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
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   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


 *SECNO 1.158

 265 DIVIDED FLOW

     1.16     1.64  1449.64      .00      .00  1449.78      .14     5.14      .00  1451.00
     810.       0.     519.     291.       0.     153.     138.     125.      64.  1450.00
      .71      .00     3.38     2.11     .090     .050     .080     .000  1448.00  4890.69
  .016863     800.     730.     690.        4        0        0      .00   355.28  5281.99
0
 *SECNO 1.323
     1.32     1.98  1458.48      .00      .00  1458.53      .05     8.75      .01  1458.00
     800.     197.     594.       9.     128.     302.      15.     132.      74.  1458.00
      .84     1.53     1.97      .58     .090     .050     .080     .000  1456.50  4833.76
  .006562     890.     870.     890.        7        0        0      .00   600.05  5433.81
0
 *SECNO 1.448

 3265 DIVIDED FLOW

     1.45     2.35  1464.95      .00      .00  1465.09      .14     6.52      .02  1465.00
     795.       0.     480.     315.       0.     152.     121.     137.      81.  1465.00
      .90      .00     3.17     2.60     .070     .050     .070     .000  1462.00  4880.61
  .015992     640.     660.     720.        3        0        0      .00   359.49  5246.52
0
 *SECNO 1.553
     1.55     1.87  1469.87      .00      .00  1469.97      .10     4.88      .00  1472.00
     795.       0.     795.       0.       0.     316.       0.     141.      85.  1470.00
      .96      .00     2.52      .00     .070     .050     .070     .000  1468.00  4853.24
  .005554     555.     555.     555.        5        0        0      .00   260.29  5113.52
0
 *SECNO 1.655

 3265 DIVIDED FLOW

     1.65     2.29  1473.78      .00      .00  1473.94      .16     3.95      .02  1474.50
     790.     167.     623.       0.      86.     177.       0.     145.      88.  1475.50
     1.01     1.94     3.53      .00     .070     .050     .070     .000  1471.50  4812.29
  .009842     600.     540.     480.        4        0        0      .00   231.51  5075.66
0
1
 11/11/87    10:07:17                                                                PAGE    7


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 1.750
     1.75     2.40  1476.90      .00      .00  1477.00      .10     3.05      .01  1480.00
     790.       0.     790.       0.       0.     318.       0.     148.      91.  1480.00
     1.07      .00     2.49      .00     .070     .050     .070     .000  1474.50  4855.34
  .004156     500.     500.     500.        3        0        0      .00   214.53  5069.87

 *SECNO 1.904

 1645 INT SEC ADDED BY RAISING SEC      1.90,  -6.375FT AND MULTIPLYING BY   1.575

     1.01     1.94  1478.56      .00      .00  1478.90      .34     1.83      .07  1479.63
     788.       0.     787.       0.       0.     169.       0.     143.      92.  1481.63
     1.00      .00     6.67      .00     .070     .050     .070     .000  1476.63  5175.79
```

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   .031979     185.     204.     205.       2        0        0      .00   204.60  5390.32
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   2.125FT AND MULTIPLYING BY    .866

     1.02     2.62  1481.37      .00      .00  1481.48      .11     2.55      .02  1481.75
     785.       0.     785.       0.       0.     297.       0.     150.      93.   1483.75
     1.10      .00     2.64      .00     .070     .050     .070     .000  1478.75  5036.58
   .006628     185.     204.     205.       4        0        0      .00   259.76  5296.33
0

 1645 INT SEC ADDED BY RAISING SEC      1.02,   2.125FT AND MULTIPLYING BY    .845

     1.03     2.40  1483.27      .00      .00  1483.50      .23     1.99      .04  1483.88
     783.       0.     782.       0.       0.     204.       0.     152.      94.   1485.88
     1.11      .00     3.83      .00     .070     .050     .070     .000  1480.88  4976.07
   .015785     185.     204.     205.       2        0        0      .00   196.96  5173.03
0

 1645 INT SEC ADDED BY RAISING SEC      1.03,   2.125FT AND MULTIPLYING BY    .816

     1.90     2.79  1485.79      .00      .00  1485.96      .17     2.46      .01  1486.00
     780.       0.     790.       0.       0.     236.       0.     153.      95.   1488.00
     1.13      .00     3.31      .00     .070     .050     .070     .000  1483.00  4876.40
   .009492     185.     204.     205.       4        0        0      .00   192.90  5069.30
0
1
  11/11/87    10:07:17                                                                    PAGE    8


    SECNO    DEPTH    CWSEL    CRIWS    WSELK      EG       HV       HL    GLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB      ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL       XNCH     XNR      WTN     ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL    IDC      ICONT    CORAR   TOPWID     ENDST


 *SECNO 2.043
     2.04     1.82  1493.82      .00      .00  1493.97      .16     8.01      .00  1494.00
     770.       0.     770.       0.       0.     244.       0.     157.      99.   1494.00
     1.20      .00     3.16      .00     .070     .050     .070     .000  1492.00  4904.58
   .012851     740.     730.     650.       5        0        0      .00   268.08  5172.66
0
 *SECNO 2.213
     2.21     2.24  1501.74      .00      .00  1501.91      .16     7.93      .00  1502.00
     765.       0.     765.       0.       0.     238.       0.     162.     103.   1504.00
     1.27      .00     3.21      .00     .070     .040     .070     .000  1499.50  4844.14
   .006529     820.     830.     960.       5        0        0      .00   215.11  5059.26
0
 *SECNO 2.395
     2.39     1.90  1509.90      .00      .00  1510.36      .46     8.37      .09  1512.00
     755.       0.     755.       0.       0.     138.       0.     166.     107.   1512.00
     1.32      .00     5.45      .00     .070     .040     .070     .000  1508.00  4961.23
   .012280     950.     960.     970.       5        0        0      .00    90.66  5051.89
0
 *SECNO 2.532
     2.53     1.06  1517.06      .00      .00  1517.21      .16     6.82      .03  1516.00
     755.      42.     713.       0.      35.     219.       0.     169.     110.   1520.00
     1.39     1.20     3.26      .00     .070     .040     .070     .000  1516.00  4793.88
   .007461     680.     725.     730.       5        0        0      .00   279.35  5073.22
0
 *SECNO 2.650

 1645 INT SEC ADDED BY RAISING SEC      2.65,  -4.500FT AND MULTIPLYING BY  14.907
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     1.01     1.21  1518.71      .00      .00  1518.89      .18     1.66      .01  1519.50
     754.       0.     742.      11.       0.     216.      19.     170.     111.   1520.00
     1.40      .00     3.43      .60     .070     .040     .070     .000  1517.50  7949.47
   .016786     153.     155.     163.        3        0        0      .00   542.12 10754.68
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.500FT AND MULTIPLYING BY    .689


 3265 DIVIDED FLOW

     1.02     1.53  1520.53      .00      .00  1520.65      .11     1.75      .01  1521.00
     753.       0.     682.      71.       0.     243.      89.     171.     114.   1521.50
     1.41      .00     2.81      .80     .070     .040     .070     .000  1519.00  6928.05
   .008034     153.     155.     163.        4        0        0      .00   647.47  8997.89
0

 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.500FT AND MULTIPLYING BY    .549


 3265 DIVIDED FLOW

     1.03     1.67  1522.17      .00      .00  1522.40      .24     1.72      .04  1522.50
     751.       0.     653.      98.       0.     157.      76.     172.     115.   1523.00
     1.43      .00     4.16     1.29     .070     .040     .070     .000  1520.50  5948.93
   .015962     153.     155.     163.        2        0        0      .00   414.47  7114.22
0

 1645 INT SEC ADDED BY RAISING SEC      1.03,   1.500FT AND MULTIPLYING BY    .177

     2.65     2.67  1524.67  1524.53      .00  1524.88      .22     2.48      .00  1524.00
     750.      92.     399.     259.      59.      86.     106.     173.     117.   1524.50
     1.44     1.57     4.66     2.44     .070     .040     .070     .000  1522.00  4844.91
   .015663     153.     155.     163.       10       14        0      .00   369.29  5214.20
0
 *SECNO 2.806
     2.81     3.28  1531.28      .00      .00  1531.54      .26     6.65      .01  1532.00
     741.       0.     741.       0.       0.     180.       0.     177.     121.   1532.00
     1.49      .00     4.12      .00     .070     .040     .070     .000  1529.00  4932.57
   .004886     980.     825.     760.        5        0        0      .00    89.74  5022.31
0
1
 PROFILE FOR STREAM  CAP OVERCHUTE 11-EAST WA


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1400.     1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.
    SECNO   CUMDIS

      .00      0.  C I   E M .        .         .         .         .         .         .         .         .
             100.  C IL  E M .        .         .         .         .         .         .         .         .
             200.  C IL  E M
```

```
      300.  C  IL EM .         .         .         .         .         .         .         .         .         .
      400.  C  IL EM .         .         .         .         .         .         .         .         .         .
      500.  C   ILEM .         .         .         .         .         .         .         .         .         .
      600.  C   ILEM .         .         .         .         .         .         .         .         .         .
      700.  C   I EM .         .         .         .         .         .         .         .         .         .
 .14  800.  C    IEM .         .         .         .         .         .         .         .         .         .
      900.  C    IEM .         .         .         .         .         .         .         .         .         .
     1000.  C    ILE .         .         .         .         .         .         .         .         .         .
     1100.  C    I E .         .         .         .         .         .         .         .         .         .
     1200.  C     IE .         .         .         .         .         .         .         .         .         .
     1300.  C     IEM .         .         .         .         .         .         .         .         .         .
     1400.  C     IWE .         .         .         .         .         .         .         .         .         .
     1500.  C     I E .         .         .         .         .         .         .         .         .         .
     1600.  C      IE .         .         .         .         .         .         .         .         .         .
 .31 1700.  .      IE .         .         .         .         .         .         .         .         .         .
     1800.  C      IWE.         .         .         .         .         .         .         .         .         .
     1900.  C      I E.         .         .         .         .         .         .         .         .         .
     2000.  C       IEM         .         .         .         .         .         .         .         .         .
     2100.  C       I E         .         .         .         .         .         .         .         .         .
     2200.  C       I EM        .         .         .         .         .         .         .         .         .
     2300.  C        IEL        .         .         .         .         .         .         .         .         .
     2400.  C        I.E        .         .         .         .         .         .         .         .         .
 .47 2500.  C         IEL       .         .         .         .         .         .         .         .         .
     2600.  C         I E       .         .         .         .         .         .         .         .         .
     2700.  C         I E       .         .         .         .         .         .         .         .         .
1.01 2800.  C         .IER      .         .         .         .         .         .         .         .         .
     2900.  C         .IER      .         .         .         .         .         .         .         .         .
1.02 3000.  C         . IER     .         .         .         .         .         .         .         .         .
     3100.  C         . IWE     .         .         .         .         .         .         .         .         .
 .60 3200.  C         .  IER    .         .         .         .         .         .         .         .         .
     3300.  C         .  IER    .         .         .         .         .         .         .         .         .
     3400.  C         .  I ER   .         .         .         .         .         .         .         .         .
     3500.  C         .  I ER   .         .         .         .         .         .         .         .         .
     3600.  C         .   IWER  .         .         .         .         .         .         .         .         .
     3700.  C         .   ILER  .         .         .         .         .         .         .         .         .
     3800.  C         .   I E R .         .         .         .         .         .         .         .         .
 .73 3900.  C         .    IWER .         .         .         .         .         .         .         .         .
     4000.  C         .    ILER .         .         .         .         .         .         .         .         .
     4100.  C         .     IER .         .         .         .         .         .         .         .         .
     4200.  C         .     ILE .         .         .         .         .         .         .         .         .
     4300.  C         .      IEM.         .         .         .         .         .         .         .         .
 .83 4400.  C         .       IE.         .         .         .         .         .         .         .         .
     4500.  C         .       IE.         .         .         .         .         .         .         .         .
     4600.  C         .       IEM         .         .         .         .         .         .         .         .
     4700.  C         .       ILE         .         .         .         .         .         .         .         .
     4800.  C         .        IE         .         .         .         .         .         .         .         .
     4900.  C         .        IWE        .         .         .         .         .         .         .         .
     5000.  C         .        ILE        .         .         .         .         .         .         .         .
     5100.  C         .         IE        .         .         .         .         .         .         .         .
     5200.  C         .         ILE       .         .         .         .         .         .         .         .
     5300.  C         .         ILE       .         .         .         .         .         .         .         .
1.02 5400.  C         .         .IEM      .         .         .         .         .         .         .         .
     5500.  C         .         .ILE      .         .         .         .         .         .         .         .
     5600.  C         .         .I E      .         .         .         .         .         .         .         .
     5700.  C         .         . IEM     .         .         .         .         .         .         .         .
     5800.  C         .         . I E     .         .         .         .         .         .         .         .
     5900.  C         .         .  IEM    .         .         .         .         .         .         .         .
     6000.  C         .         .  IEL    .         .         .         .         .         .         .         .
     6100.  C         .         .   IE    .         .         .         .         .         .         .         .
1.16 6200.  C         .         .   IEL   .         .         .         .         .         .         .         .
     6300.  C         .         .   IEL   .         .         .         .         .         .         .         .
     6400.  C         .         .    IE   .         .         .         .         .         .         .         .
     6500.  C         .         .    IEL  .         .         .         .         .         .         .         .
     6600.  C         .         .     IE  .         .         .         .         .         .         .         .
     6700.  C         .         .     IEL .         .         .         .         .         .         .         .
     6800.  C         .         .      IE
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     6900. C     .     .    IEM.     .     .     .     .     .     .     .
1.32 7000. C     .     .    IEM      .     .     .     .     .     .     .
     7100. C     .     .     IE      .     .     .     .     .     .     .
     7200. C     .     .     IE      .     .     .     .     .     .     .
     7300. C     .     .      IE     .     .     .     .     .     .     .
     7400. C     .     .      IE     .     .     .     .     .     .     .
     7500. C     .     .      I E    .     .     .     .     .     .     .
     7600. C     .     .      .IE    .     .     .     .     .     .     .
1.45 7700. C     .     .      .IWE   .     .     .     .     .     .     .
     7800. C     .     .      . IE   .     .     .     .     .     .     .
     7900. C     .     .      . IEL  .     .     .     .     .     .     .
     8000. C     .     .      .  IE  .     .     .     .     .     .     .
     8100. C     .     .      .  IEL .     .     .     .     .     .     .
1.55 8200. C     .     .      .   IEL .     .     .     .     .     .     .
     8300. C     .     .      .   IEL .     .     .     .     .     .     .
     8400. C     .     .      .    IEM .     .     .     .     .     .     .
     8500. C     .     .      .    IEL .     .     .     .     .     .     .
     8600. C     .     .      .    IEL .     .     .     .     .     .     .
     8700. C     .     .      .     IER .     .     .     .     .     .     .
1.65 8800. C     .     .      .     IER .     .     .     .     .     .     .
     8900. C     .     .      .     IEL .     .     .     .     .     .     .
     9000. C     .     .      .     I ER.     .     .     .     .     .     .
     9100. C     .     .      .      IEL.     .     .     .     .     .     .
     9200. C     .     .      .      IELR     .     .     .     .     .     .
1.75 9300. C     .     .      .      IWELM    .     .     .     .     .     .
     9400. C     .     .      .       IELM    .     .     .     .     .     .
1.01 9500. C     .     .      .       IELR    .     .     .     .     .     .
     9600. C     .     .      .        IER    .     .     .     .     .     .
1.02 9700. C     .     .      .        I.ER   .     .     .     .     .     .
     9800. C     .     .      .         IER   .     .     .     .     .     .
1.03 9900. C     .     .      .         I ER  .     .     .     .     .     .
    10000. C     .     .      .         .IER  .     .     .     .     .     .
1.90 10100. C    .     .      .         . IER .     .     .     .     .     .
    10200. C     .     .      .         . IWE .     .     .     .     .     .
    10300. C     .     .      .          IER  .     .     .     .     .     .
    10400. C     .     .      .          I E  .     .     .     .     .     .
    10500. C     .     .      .           IER .     .     .     .     .     .
    10600. C     .     .      .            IE .     .     .     .     .     .
    10700. C     .     .      .            IEM .     .     .     .     .     .
2.04 10800. C    .     .      .             IE .     .     .     .     .     .
    10900. C     .     .      .             IER .     .     .     .     .     .
    11000. C     .     .      .              IE .     .     .     .     .     .
    11100. C     .     .      .              IER.     .     .     .     .     .
    11200. C     .     .      .               IE.     .     .     .     .     .
    11300. C     .     .      .               IER     .     .     .     .     .
    11400. C     .     .      .                IE     .     .     .     .     .
    11500. C     .     .      .                IER    .     .     .     .     .
    11600. C     .     .      .                IWEM   .     .     .     .     .
2.21 11700. C    .     .      .                 IER   .     .     .     .     .
    11800. C     .     .      .                 IEL   .     .     .     .     .
    11900. C     .     .      .                 .IER  .     .     .     .     .
    12000. C     .     .      .                 .IEL  .     .     .     .     .
    12100. C     .     .      .                 . IER .     .     .     .     .
    12200. C     .     .      .                 . IEL .     .     .     .     .
    12300. C     .     .      .                 . IWER .    .     .     .     .
    12400. C     .     .      .                  . IEL .    .     .     .     .
    12500. C     .     .      .                  . IELM .   .     .     .     .
    12600. C     .     .      .                   . IEL .   .     .     .     .
2.39 12700. C    .     .      .                   . IEL .   .     .     .     .
    12800. C     .     .      .                    . WER .  .     .     .     .
    12900. C     .     .      .                    . IEL .  .     .     .     .
    13000. C     .     .      .                    .  WER . .     .     .     .
    13100. C     .     .      .                    .  IER . .     .     .     .
    13200. C     .     .      .                    .   WER. .     .     .     .
    13300. C     .     .      .                    .   IER. .     .     .     .
2.57 13400. C
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        13500.  C      .      .      .      .      .     IER     .      .      .      .
    1.01 13600.  C      .      .      .      .      .     ELM     .      .      .      .
    1.02 13700.  C      .      .      .      .      .     ELM     .      .      .      .
        13800.  C      .      .      .      .      .     IEM     .      .      .      .
    1.03 13900.  C      .      .      .      .      .     IER     .      .      .      .
    2.65 14000.  .      .      .      .      .      .    .IEM     .      .      .      .
        14100.  C      .      .      .      .      .    .ILE     .      .      .      .
        14200.  C      .      .      .      .      .    . IEM    .      .      .      .
        14300.  C      .      .      .      .      .    . ILE    .      .      .      .
        14400.  C      .      .      .      .      .    . I EM   .      .      .      .
        14500.  C      .      .      .      .      .    .  IER   .      .      .      .
        14600.  C      .      .      .      .      .    .  I EM  .      .      .      .
        14700.  C      .      .      .      .      .    .   IEM  .      .      .      .
        14800.  C      .      .      .      .      .    .   I EM .      .      .      .
    2.81 14900.  C      .      .      .      .      .    .   I EM .      .      .      .
1
 11/11/87    10:07:17                                                                PAGE   10
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THIS RUN EXECUTED 11/11/87 10:08:12

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 11-EAST WA

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	1094.00	1412.30	4097.75	4965.00	5015.00	5356.50	.00	1258.75	8.80	1403.50	.05	.29
	.141	1094.00	1412.31	4552.94	4590.00	5065.00	5439.41	.01	886.47	3.31	1409.00	3.63	.98
*	.306	1094.00	1416.05	4724.55	4915.00	5040.00	5042.33	3.74	317.78	2.55	1413.50	524.16	5.59
	.471	1094.00	1422.63	4716.07	4570.00	5090.00	5066.22	6.59	350.15	3.63	1419.00	26.69	2.04
*	.597	1094.00	1428.03	4865.59	4870.00	5125.00	5200.83	1.97	189.38	3.03	1425.00	103.49	3.98
	.725	1094.00	1432.89	4728.26	4960.00	5150.00	5103.42	4.87	370.40	3.39	1429.50	50.71	3.34
	.832	1094.00	1437.16	4772.54	4900.00	5020.00	5028.69	4.27	256.15	2.16	1435.00	138.21	4.90
	1.020	820.00	1444.51	4586.49	4950.00	5030.00	5059.89	7.35	473.40	3.51	1441.00	38.52	3.23
	1.158	810.00	1449.64	4890.68	4800.00	5095.00	5281.99	5.13	355.28	1.64	1448.00	168.63	3.38
	1.323	800.00	1458.48	4833.76	4960.00	5370.00	5433.81	8.84	600.05	1.98	1456.50	65.62	1.97
	1.448	795.00	1464.95	4880.61	4875.00	5080.00	5246.52	6.47	359.49	2.95	1462.00	159.92	3.17
	1.553	795.00	1469.87	4853.24	4800.00	5120.00	5113.52	4.92	260.29	1.87	1468.00	55.54	2.52
	1.655	790.00	1473.78	4812.29	4925.00	5120.00	5075.66	3.91	231.51	2.28	1471.50	98.42	3.53

	1.750	790.00	1476.90	4855.34	4750.00	5160.00	5069.87	3.13	214.53	2.40	1474.50	41.56	2.49
*	1.904	780.00	1485.79	4876.40	4865.00	5130.00	5069.30	2.52	192.90	2.79	1483.00	94.92	3.31
	2.043	770.00	1493.82	4904.58	4895.00	5190.00	5172.66	8.02	268.08	1.82	1492.00	128.51	3.16
	2.213	765.00	1501.74	4844.14	4825.00	5110.00	5059.26	7.93	215.11	2.24	1499.50	65.29	3.21

1

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	2.395	755.00	1509.90	4961.23	4935.00	5065.00	5051.89	8.16	90.66	1.90	1508.00	122.80	5.45
	2.532	755.00	1517.06	4793.88	4860.00	5110.00	5073.22	7.16	279.35	1.06	1516.00	74.61	3.26
*	2.650	750.00	1524.67	4844.31	4980.00	5065.00	5214.20	2.50	369.29	2.67	1522.00	156.63	4.66
	2.806	741.00	1531.28	4932.57	4920.00	5025.00	5022.31	6.61	89.74	3.28	1528.00	48.86	4.12

1

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .306 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .306 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= .306 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= .597 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.904 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 2.650 PROFILE= 1 INTERPOLATED XSECTIONS USED

1

THIS RUN EXECUTED 11/11/87 10:08:16

****
HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION 1.1
****

INPUT FILE: CAP12EST

OUTPUT FILE: CAP12EST.OUT

THIS RUN EXECUTED 11/11/87 16:57:05

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
**************************************************


T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS  (100 YEAR EVENT)
T3      CAP OVERCHUTE 12-EAST WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINC    Q        WSEL     FQ

      0.       0.       0.       0.   .000000     .00       .5    1094.  1436.870    .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    -1.000     .000     .000     .000     .000     .000     .000     .000     .000     .000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


    42.000    5.000   26.000     .000     .000     .000     .000     .000     .000     .000
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Below confluence to CAP II EAST (Bunker Hill)

```
NC      .090     .075     .050     .100     .300     .000     .000     .000     .000     .000
X1      .000    5.000 4900.000 5020.000     .000     .000     .000     .000     .000     .000
X2   1094.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1437.000 4735.000 1436.000 4900.000 1435.000 5000.000 1436.000 5020.000 1440.000 5050.000
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Dynamite Blvd.

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X1      .188    4.000 4895.000 5110.000  640.000  670.000  660.000     .000     .000     .000
X2    274.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1443.000 4895.000 1440.000 5000.000 1442.000 5110.000 1443.500 5300.000     .000     .000

X1      .326    6.000 4850.000 5230.000  850.000  850.000  890.000     .000     .000     .000
X2    270.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1451.000 4850.000 1448.000 5000.000 1447.000 5020.000 1448.000 5050.000 1448.000 5090.000
GR   1451.000 5230.000     .000     .000     .000     .000     .000     .000     .000     .000

X1      .429    5.000 4870.000 5170.000  500.000  620.000  550.000     .000     .000     .000
X2    325.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1457.000 4870.000 1456.000 4970.000 1455.000 5000.000 1456.000 5100.000 1457.500 5170.000

X1      .562    6.000 4985.000 5050.000  670.000  690.000  700.000     .000     .000     .000
X2    325.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR   1464.000 4790.000 1460.000 4985.000 1459.000 5000.000 1460.000 5015.000 1464.000 5050.000
GR   1465.000 5075.000     .000     .000     .000     .000     .000     .000     .000     .000
1
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NC      .070      .070      .050      .000      .000      .000      .000      .000      .000      .000
X1      .684     8.000  4825.000  5095.000   700.000   625.000   645.000      .000      .000      .000
X2      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1472.000  4825.000  1468.000  4970.000  1468.000  5000.000  1468.000  5030.000  1470.000  5095.000
GR   1469.000  5155.000  1472.000  5375.000  1472.500  5400.000      .000      .000      .000      .000

X1      .911     4.000  4840.000  5095.000  1250.000  1160.000  1200.000      .000      .000      .000
X2   305.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1482.000  4720.000  1480.000  4840.000  1477.000  5000.000  1490.000  5095.000      .000      .000

X1     1.091     4.000  4930.000  5025.000   900.000   870.000   950.000      .000      .000      .000
X2   295.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1488.000  4930.000  1485.000  5000.000  1488.000  5025.000  1489.000  5160.000      .000      .000
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155 AVE (EXTENDED)

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X1     1.224     5.000  4900.000  5090.000   670.000   660.000   700.000      .000      .000      .000
X2   295.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1494.000  4900.000  1492.000  4990.000  1491.500  5000.000  1492.000  5015.000  1494.000  5090.000

X1     1.442     4.000  4950.000  5085.000  1260.000  1240.000  1150.000      .000      .000      .000
X2   275.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1508.500  4950.000  1506.000  5000.000  1508.000  5020.000  1508.500  5085.000      .000      .000

X1     1.685     7.000  4925.000  5060.000  1160.000  1160.000  1285.000      .000      .000      .000
X2   265.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1520.000  4735.000  1518.000  4925.000  1516.000  4990.000  1516.000  5000.000  1516.000  5010.000
GR   1517.500  5060.000  1519.000  5215.000      .000      .000      .000      .000      .000      .000

X1     1.834     7.000  4955.000  5030.000   790.000   780.000   785.000      .000      .000      .000
X2   252.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1529.000  4910.000  1528.000  4955.000  1524.000  4980.000  1522.000  5000.000  1524.000  5010.000
GR   1528.000  5030.000  1530.000  5070.000      .000      .000      .000      .000      .000      .000
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CAP OVERCHUTE

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X1     1.925     5.000  4895.000  5040.000   480.000   480.000   480.000      .000      .000      .000
X2   252.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1532.000  4895.000  1528.000  4990.000  1527.000  5000.000  1528.000  5020.000  1532.000  5040.000
EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS    BANK ELEV
   Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000
      .00     1.87  1436.87  1436.85  1436.87  1437.37      .50      .00      .00  1436.00
    1094.      108.      980.       5.       62.      164.       3.       0.       0.  1436.00
      .00     1.73     5.96     1.84     .080     .050     .075     .000  1435.00  4756.45
  .026472       0.       0.       0.        0        4        0      .00   270.07  5026.52
0
*SECNO  .188
      .19     2.39  1442.39      .00      .00  1442.40      .02     4.99      .05  1443.00
     274.       0.      272.       2.       0.      252.       3.       4.       4.  1442.00
      .17      .00     1.08      .20     .080     .050     .075     .000  1440.00  4916.47
  .000326     640.      660.      670.        5        0        0      .00   242.50  5158.37
0
*SECNO  .326
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3700 CRITICAL DEPTH ASSUMED
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      .33      1.37  1448.37  1448.37      .00  1448.64      .27      2.49      .08  1451.00
     270.        0.      270.        0.       0.      64.       0.       7.       8.   1451.00
      .23       .00      4.19       .00     .080     .050     .075     .000  1447.00  4981.68
   .048280     850.      880.      850.       20       14        0      .00   125.41  5107.10
0
 *SECNO  .429
      .43      1.53  1456.53       .00      .00  1456.60      .07      7.94      .02  1457.00
     325.        0.      325.        0.       0.     153.       0.       8.      10.   1457.50
      .30       .00      2.12       .00     .080     .050     .075     .000  1455.00  4917.67
   .007615     500.      550.      620.        6        0        0      .00   206.75  5124.42
0
 *SECNO  .562
      .56      2.55  1461.55       .00      .00  1461.70      .15      5.00      .02  1460.00
     325.       76.      249.        0.      58.      72.       0.      11.      12.   1464.00
      .37      1.31      3.46       .00     .080     .050     .075     .000  1459.00  4909.60
   .006985     670.      700.      690.        4        0        0      .00   118.93  5028.53
0
 *SECNO  .684
      .68       .98  1468.98       .00      .00  1469.17      .20      7.46      .01  1472.00
     325.        0.      325.        0.       0.      92.       0.      12.      14.   1470.00
      .42       .00      3.55       .00     .070     .050     .070     .000  1468.00  4934.56
   .022147     700.      645.      625.        5        0        0      .00   127.22  5061.78
0
1
  11/11/87    16:57:04                                                                  PAGE    4


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

 *SECNO  .911
      .91      1.99  1478.99       .00      .00  1479.04      .06      9.85      .01  1480.00
     305.        0.      305.        0.       0.     161.       0.      16.      18.   1480.00
      .59       .00      1.89       .00     .070     .050     .070     .000  1477.00  4894.04
   .004091    1250.     1200.     1160.        6        0        0      .00   162.26  5056.29
0
 *SECNO 1.091
     1.09      1.93  1486.93       .00      .00  1487.32      .39      8.18      .10  1488.00
     295.        0.      295.        0.       0.      59.       0.      18.      21.   1488.00
      .65       .00      5.02       .00     .070     .050     .070     .000  1485.00  4955.06
   .030144     900.      950.      870.        2        0        0      .00    60.99  5016.05
0
 *SECNO 1.224
     1.22      2.12  1493.62       .00      .00  1493.67      .06      6.32      .03  1494.00
     295.        0.      295.        0.       0.     154.       0.      20.      22.   1494.00
      .75       .00      1.91       .00     .070     .050     .070     .000  1491.50  4917.28
   .004278     670.      700.      660.        6        0        0      .00   158.32  5075.60
0
 *SECNO 1.442
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.44      1.83  1507.83  1507.83       .00  1508.30      .47     10.70      .12  1508.50
     275.        0.      275.        0.       0.      50.       0.      23.      25.   1508.50
      .81       .00      5.49       .00     .070     .050     .070     .000  1506.00  4963.44
   .038575    1260.     1150.     1240.       20       11        0      .00    54.83  5018.28
0
 *SECNO 1.685
     1.68      1.86  1517.86       .00      .00  1517.90      .05      9.57      .04  1518.00
     265.        0.      263.        2.       0.     148.       7.      26.      28.   1517.50
     1.01       .00      1.77       .37     .070     .050     .070     .000  1516.00  4929.66
   .002977    1160.     1285.     1160.        4        0        0      .00   167.20  5096.86
0
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*SECNO 1.834

1645 INT SEC ADDED BY RAISING SEC      1.93,  -3.000FT AND MULTIPLYING BY   3.371

     1.01     1.47  1520.47  1520.45     .00  1520.82     .35     2.83     .09  1525.00
     259.       0.     259.       0.      0.     54.      0.      27.     29.   1525.00
     1.03     .00     4.75     .00    .070    .050    .070    .000  1519.00  5163.97
   .038753    395.     393.    390.       5      15       0     .00    74.15  5238.12
0
1
 11/11/87    16:57:04                                                                    PAGE    5


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1645 INT SEC ADDED BY RAISING SEC      1.01,   3.000FT AND MULTIPLYING BY    .297

     1.83     3.31  1525.31     .00     .00  1525.47     .16     4.63     .02  1528.00
     252.       0.     252.       0.      0.     79.      0.      27.     30.   1528.00
     1.07     .00     3.20     .00    .070    .050    .070    .000  1522.00  4971.84
   .005529    395.     393.    390.       6       0       0     .00    44.69  5016.53
0
*SECNO 1.925
     1.92     2.01  1529.01     .00     .00  1529.19     .18     3.72     .01  1532.00
     252.       0.     252.       0.      0.     74.      0.      28.     31.   1532.00
     1.11     .00     3.43     .00    .070    .050    .070    .000  1527.00  4958.61
   .011632    480.     480.    480.       4       0       0     .00    66.43  5025.03

1
PROFILE FOR STREAM  CAP OVERCHUTE 12-EAST WA


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.     1600.
    SECNO   CUMDIS

     .00      0.  .      WE.       .         .         .         .         .         .         .         .
            100.  C      IE.       .         .         .         .         .         .         .         .
            200.  C      IE.       .         .         .         .         .         .         .         .
            300.  C       IE       .         .         .         .         .         .         .         .
            400.  C       IE       .         .         .         .         .         .         .         .
            500.  C       IRE      .         .         .         .         .         .         .         .
            600.  C        IE      .         .         .         .         .         .         .         .
     .19    700.  C        IEL     .         .         .         .         .         .         .         .
            800.  C        I E     .         .         .         .         .         .         .         .
            900.  C        .IE     .         .         .         .         .         .         .         .
           1000.  C        .IEL    .         .         .         .         .         .         .         .
           1100.  C        . IE    .         .         .         .         .         .         .         .
           1200.  C        . IEL   .         .         .         .         .         .         .         .
           1300.  C        . IEL   .         .         .         .         .         .         .         .
           1400.  C        .  IEL  .         .         .         .         .         .         .         .
           1500.  C        .  IEL  .         .         .         .         .         .         .         .
     .33   1600.  .        .   E L .         .         .         .         .         .         .         .
           1700.  C        .   IEL .         .         .         .         .         .         .         .
           1800.  C        .    IEL .        .         .         .         .         .         .         .
           1900.  C        .     EL .        .         .         .         .         .         .         .
           2000.  C        .     IEL .       .         .         .         .         .         .         .
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```
      2200. C        .      IE.        .        .        .        .        .        .        .        .
      2300. C        .      IER        .        .        .        .        .        .        .        .
      2400. C        .      IER        .        .        .        .        .        .        .        .
      2500. C        .       IER       .        .        .        .        .        .        .        .
      2600. C        .       IER       .        .        .        .        .        .        .        .
      2700. C        .       IE R      .        .        .        .        .        .        .        .
 .56  2800. C        .        IER      .        .        .        .        .        .        .        .
      2900. C        .        IERM     .        .        .        .        .        .        .        .
      3000. C        .        .IER     .        .        .        .        .        .        .        .
      3100. C        .        . IEM    .        .        .        .        .        .        .        .
      3200. C        .        . IEL    .        .        .        .        .        .        .        .
      3300. C        .        .  IEL   .        .        .        .        .        .        .        .
      3400. C        .        .   ERL  .        .        .        .        .        .        .        .
 .68  3500. C        .        .   WEL  .        .        .        .        .        .        .        .
      3600. C        .        .   IEL  .        .        .        .        .        .        .        .
      3700. C        .        .    ERL .        .        .        .        .        .        .        .
      3800. C        .        .    IEL .        .        .        .        .        .        .        .
      3900. C        .        .     EL .        .        .        .        .        .        .        .
      4000. C        .        .     IEL.        .        .        .        .        .        .        .
      4100. C        .        .     IEL.        .        .        .        .        .        .        .
      4200. C        .        .      EL.        .        .        .        .        .        .        .
      4300. C        .        .      IEL.       .        .        .        .        .        .        .
      4400. C        .        .      IEL.       .        .        .        .        .        .        .
      4500. C        .        .       IE.       .        .        .        .        .        .        .
      4600. C        .        .       IEL       .        .        .        .        .        .        .
 .91  4700. C        .        .        WE       .        .        .        .        .        .        .
      4800. C        .        .        IE       .        .        .        .        .        .        .
      4900. C        .        .        IEL      .        .        .        .        .        .        .
      5000. C        .        .         IE      .        .        .        .        .        .        .
      5100. C        .        .         IEL     .        .        .        .        .        .        .
      5200. C        .        .         .IE     .        .        .        .        .        .        .
      5300. C        .        .         .IEL    .        .        .        .        .        .        .
      5400. C        .        .         .IWE    .        .        .        .        .        .        .
      5500. C        .        .         . IE    .        .        .        .        .        .        .
 1.09 5600. C        .        .         .  WE   .        .        .        .        .        .        .
      5700. C        .        .         .  IE   .        .        .        .        .        .        .
      5800. C        .        .         .  IWE  .        .        .        .        .        .        .
      5900. C        .        .         .   IE  .        .        .        .        .        .        .
      6000. C        .        .         .   IEL .        .        .        .        .        .        .
      6100. C        .        .         .    IE .        .        .        .        .        .        .
      6200. C        .        .         .    IEL.        .        .        .        .        .        .
 1.22 6300. C        .        .         .     IE.        .        .        .        .        .        .
      6400. C        .        .         .     IEL.       .        .        .        .        .        .
      6500. C        .        .         .      IE.       .        .        .        .        .        .
      6600. C        .        .         .       IE.      .        .        .        .        .        .
      6700. C        .        .         .       IEL      .        .        .        .        .        .
      6800. C        .        .         .        IE      .        .        .        .        .        .
      6900. C        .        .         .         IE     .        .        .        .        .        .
      7000. C        .        .         .         IE     .        .        .        .        .        .
      7100. C        .        .         .         .IE    .        .        .        .        .        .
      7200. C        .        .         .         .IWE   .        .        .        .        .        .
      7300. C        .        .         .         . IE   .        .        .        .        .        .
      7400. .        .C       .         .         .  IE  .        .        .        .        .        .
 1.44 7500. .        .        .         .         .  IE  .        .        .        .        .        .
      7600. C        .        .         .         .  IWE .        .        .        .        .        .
      7700. C        .        .         .         .   IE .        .        .        .        .        .
      7800. C        .        .         .         .   IE .        .        .        .        .        .
      7900. C        .        .         .         .    WE .        .        .        .        .        .
      8000. C        .        .         .         .    IE .        .        .        .        .        .
      8100. C        .        .         .         .    IEM.        .        .        .        .        .
      8200. C        .        .         .         .     IE.        .        .        .        .        .
      8300. C        .        .         .         .     IEM.       .        .        .        .        .
      8400. C        .        .         .         .      WE.       .        .        .        .        .
      8500. C        .        .         .         .      IE.       .        .        .        .        .
      8600. C        .        .         .         .      IEM.      .        .        .        .        .
      8700. C                                                      IE
```

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    1.60  8800.  C      .      .      .      .      IEM    .      .      .      .      .
          8900.  C      .      .      .      .      IEL    .      .      .      .      .
          9000.  C      .      .      .      .      IEL    .      .      .      .      .
          9100.  C      .      .      .      .      IE L   .      .      .      .      .
    1.01  9200.  .      .      .      .      .      E  L   .      .      .      .      .
          9300.  C      .      .      .      .      IE L   .      .      .      .      .
          9400.  C      .      .      .      .      IWELM  .      .      .      .      .
          9500.  C      .      .      .      .      .IE L  .      .      .      .      .
    1.83  9600.  C      .      .      .      .      .I ELM .      .      .      .      .
          9700.  C      .      .      .      .      . IELM .      .      .      .      .
          9800.  C      .      .      .      .      . IWEL .      .      .      .      .
          9900.  C      .      .      .      .      .  IEL .      .      .      .      .
    1.92 10000.  C      .      .      .      .      .   IEL .      .      .      .      .
1
 11/11/87    16:57:04                                                                PAGE    6
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THIS RUN EXECUTED 11/11/87 16:57:17

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
**************************************************
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 12-EAST WA

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	1094.00	1436.87	4756.45	4900.00	5020.00	5026.52	.00	270.07	1.87	1435.00	264.72	5.96
	.188	274.00	1442.39	4916.47	4895.00	5110.00	5158.97	5.52	242.50	2.39	1440.00	9.26	1.08
*	.326	270.00	1448.37	4981.68	4850.00	5230.00	5107.10	5.98	125.41	1.37	1447.00	482.00	4.19
	.429	325.00	1456.53	4917.67	4870.00	5170.00	5124.42	8.16	206.75	1.53	1455.00	76.15	2.12
	.562	325.00	1461.55	4909.60	4985.00	5050.00	5028.53	5.02	118.93	2.55	1459.00	69.85	3.46
	.684	325.00	1468.98	4934.56	4825.00	5095.00	5061.78	7.43	127.22	.98	1468.00	221.47	3.55
	.911	305.00	1478.99	4894.04	4840.00	5085.00	5056.29	10.01	162.26	1.99	1477.00	40.91	1.89
	1.091	295.00	1486.93	4955.06	4930.00	5025.00	5016.05	7.94	60.99	1.93	1485.00	301.44	5.02
	1.224	295.00	1493.62	4917.28	4900.00	5090.00	5075.60	6.69	158.32	2.12	1491.50	42.78	1.91
*	1.442	275.00	1507.83	4963.44	4950.00	5085.00	5018.28	14.21	54.83	1.83	1506.00	385.75	5.49
	1.685	265.00	1517.86	4929.66	4925.00	5060.00	5096.86	10.03	167.20	1.86	1516.00	29.77	1.77
*	1.834	252.00	1525.31	4971.84	4955.00	5030.00	5016.53	4.84	44.65	3.31	1522.00	55.29	3.20
	1.925	252.00	1529.01	4958.61	4895.00	5040.00	5025.03	3.70	66.43	2.01	1527.00	116.32	3.43

1
11/11/87 16:57:04 PAGE 7

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=     .326  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .326  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .326  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    1.442  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.442  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.442  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    1.934  PROFILE= 1  INTERPOLATED XSECTIONS USED
```

1

11/11/87 16:57:19 PAGE 1

THIS RUN EXECUTED 11/11/87 16:57:19

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION
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INPUT FILE: CAP13EST
OUTPUT FILE: CAP13EST.OUT

THIS RUN EXECUTED 11/12/87 08:42:55

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
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T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 13-EAST WASH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	397.	1412.300	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

LAKE Bonita

NC	.070	.070	.050	.300	.500	.000	.000	.000	.000	.000
X1	.000	6.000	4920.000	5025.000	.000	.000	.000	.000	.000	.000
X2	397.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1412.500	4920.000	1408.000	4985.000	1407.500	5000.000	1408.000	5010.000	1412.000	5025.000
GR	1414.000	5095.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.072	5.000	4950.000	5055.000	380.000	400.000	380.000	.000	.000	.000
X2	397.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1420.000	4915.000	1416.000	4950.000	1412.500	5000.000	1416.000	5055.000	1418.000	5110.000
X1	.140	5.000	4955.000	5050.000	670.000	620.000	640.000	.000	.000	.000
GR	1419.500	4875.000	1416.000	4955.000	1415.000	5000.000	1416.000	5050.000	1419.500	5150.000
NC	.080	.080	.050	.100	.300	.000	.000	.000	.000	.000
X1	.210	7.000	4920.000	5060.000	450.000	320.000	370.000	.000	.000	.000
X2	375.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1424.000	4920.000	1420.000	4950.000	1416.000	4975.000	1414.000	5000.000	1416.000	5025.000
GR	1420.000	5060.000	1422.000	5215.000	.000	.000	.000	.000	.000	.000
X1	.313	5.000	4980.000	5020.000	530.000	540.000	540.000	.000	.000	.000
X2	365.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1422.000	4840.000	1420.000	4980.000	1417.000	5000.000	1420.000	5020.000	1424.000	5065.000

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Dynamite DR. (EXTENDED).

X1	.468	5.000	4925.000	5140.000	740.000	820.000	820.000	.000	.000	.000
X2	365.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1428.000	4925.000	1424.000	4980.000	1423.000	5000.000	1424.000	5020.000	1428.000	5140.000
X1	.589	5.000	4960.000	5055.000	670.000	620.000	640.000	.000	.000	.000
GR	1433.000	4875.000	1432.000	4960.000	1429.000	5000.000	1432.000	5055.000	1434.000	5255.000
X1	.705	10.000	4965.000	5050.000	610.000	610.000	610.000	.000	.000	.000
X2	350.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1440.000	4750.000	1436.000	4870.000	1435.000	4870.000	1436.000	4915.000	1436.500	4940.000
GR	1436.000	4965.000	1434.500	5000.000	1436.000	5050.000	1440.000	5110.000	1441.000	5155.000
X1	.790	6.000	4940.000	5050.000	480.000	430.000	450.000	.000	.000	.000
GR	1444.000	4700.000	1440.000	4910.000	1439.000	4940.000	1438.500	5000.000	1440.000	5050.000
GR	1444.000	5120.000	.000	.000	.000	.000	.000	.000	.000	.000

147 AVE (EXTENDED)

X1	.890	6.000	4785.000	5050.000	550.000	500.000	530.000	.000	.000	.000
X2	345.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1448.000	4785.000	1444.000	4970.000	1443.500	5000.000	1444.000	5015.000	1448.000	5050.000
GR	1449.000	5100.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.983	7.000	4985.000	5020.000	470.000	510.000	490.000	.000	.000	.000
GR	1454.000	4700.000	1452.000	4890.000	1448.000	4985.000	1447.500	5000.000	1448.000	5020.000
GR	1452.000	5060.000	1453.000	5105.000	.000	.000	.000	.000	.000	.000
NC	.070	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.114	5.000	4920.000	5060.000	700.000	660.000	690.000	.000	.000	.000
X2	335.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1458.000	4770.000	1456.000	4920.000	1454.000	5000.000	1456.000	5060.000	1460.000	5220.000
X1	1.244	5.000	4985.000	5015.000	700.000	650.000	680.000	.000	.000	.000
GR	1464.000	4910.000	1460.000	4985.000	1459.500	5000.000	1460.000	5015.000	1464.000	5090.000
X1	1.341	5.000	4880.000	5060.000	520.000	520.000	520.000	.000	.000	.000
X2	325.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1472.000	4820.000	1468.000	4880.000	1464.500	5000.000	1468.000	5060.000	1470.000	5115.000
X1	1.439	6.000	4970.000	5025.000	520.000	520.000	520.000	.000	.000	.000
GR	1476.000	4780.000	1472.000	4850.000	1471.000	4970.000	1470.000	5000.000	1472.000	5025.000
GR	1473.500	5055.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.572	5.000	4920.000	5050.000	700.000	700.000	700.000	.000	.000	.000
X2	315.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1481.000	4870.000	1480.000	4920.000	1476.000	4980.000	1476.000	5010.000	1480.000	5050.000
X1	1.695	6.000	4945.000	5030.000	650.000	670.000	650.000	.000	.000	.000
GR	1488.000	4720.000	1484.000	4900.000	1482.000	4945.000	1481.000	5000.000	1484.000	5030.000
GR	1488.000	5165.000	.000	.000	.000	.000	.000	.000	.000	.000

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DIXILETA BLVD. (EXTENDED)

X1	1.795	7.000	4910.000	5075.000	530.000	530.000	530.000	.000	.000	.000
X2	305.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1492.000	4910.000	1488.000	4940.000	1488.000	4960.000	1488.000	4980.000	1486.000	5000.000
GR	1489.000	5035.000	1492.000	5075.000	.000	.000	.000	.000	.000	.000
X1	1.913	5.000	4965.000	5030.000	620.000	620.000	620.000	.000	.000	.000
GR	1498.000	4925.000	1496.000	4965.000	1493.000	5000.000	1496.000	5030.000	1500.000	5050.000
X1	2.051	7.000	4920.000	5050.000	730.000	730.000	730.000	.000	.000	.000
X2	285.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1508.000	4855.000	1504.000	4920.000	1500.000	4980.000	1500.000	5000.000	1500.000	5015.000
GR	1506.000	5050.000	1509.000	5080.000	.000	.000	.000	.000	.000	.000

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 X1      2.163      5.000   4965.000   5040.000    610.000    580.000    590.000       .000       .000       .000
 GR   1512.000   4850.000   1509.000   4965.000   1505.500   5000.000   1508.000   5040.000   1512.000   5065.000

 X1      2.269      5.000   4905.000   5050.000    580.000    540.000    560.000       .000       .000       .000
 X2    275.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1516.000   4905.000   1512.000   4980.000   1510.000   5000.000   1512.000   5025.000   1516.000   5050.000

 X1      2.379      6.000   4950.000   5035.000    600.000    480.000    580.000       .000       .000       .000
 X2    265.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1523.000   4885.000   1520.000   4950.000   1516.000   4990.000   1516.000   5010.000   1520.000   5035.000
 GR   1524.000   5070.000       .000       .000       .000       .000       .000       .000       .000       .000

 X1      2.483      5.000   4970.000   5060.000    520.000    580.000    550.000       .000       .000       .000
 GR   1528.000   4940.000   1524.000   4970.000   1520.000   5000.000   1524.000   5050.000   1528.000   5110.000
          OVERCHUTE
 X1      2.587      5.000   4955.000   5040.000   1100.000   1100.000   1100.000       .000       .000       .000
 X2    265.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1532.000   4955.000   1528.000   4990.000   1526.000   5000.000   1528.000   5015.000   1532.000   5040.000
 EJ      .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
  11/12/97    08:42:55                                                                                    PAGE    4


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CHV=    .300 CEHV=    .500
 *SECNO  .000
      .00     4.80  1412.30      .00  1412.30  1412.33      .03      .00      .00  1412.50
     397.       0.     397.       0.       0.     282.       2.       0.       0.   1412.00
      .00      .00     1.41      .14     .070     .050     .070     .000  1407.50  4922.89
   .000585       0.       0.       0.        0        0        0      .00   112.61  5035.50
0
 *SECNO  .072

 1645 INT SEC ADDED BY RAISING SEC       .07,  -2.500FT AND MULTIPLYING BY    .940

     1.01     2.47  1412.47      .00      .00  1412.80      .33      .32      .15  1413.50
     397.       0.     397.       0.       0.      87.       0.       1.       0.   1413.50
      .01      .00     4.58      .00     .070     .050     .070     .000  1410.00  4961.59
   .017945     190.     190.     200.        3        0        0      .00    69.95  5031.54
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   2.500FT AND MULTIPLYING BY   1.064

      .07     2.68  1415.18      .00      .00  1415.39      .21     2.56      .03  1416.00
     397.       0.     397.       0.       0.     107.       0.       1.       1.   1416.00
      .03      .00     3.70      .00     .070     .050     .070     .000  1412.50  4961.78
   .010530     190.     190.     200.        3        0        0      .00    80.27  5042.04
0
 *SECNO  .140
      .14     2.50  1417.50      .00      .00  1417.55      .05     2.11      .05  1416.00
     397.      18.     357.      22.      26.     190.      32.       4.       3.   1416.00
      .13      .70     1.98      .70     .070     .050     .070     .000  1415.00  4920.73
   .001585     670.     640.     620.        3        0        0      .00   172.11  5092.84
0
 CCHV=    .100 CEHV=    .300
 *SECNO  .210
      .21     4.07  1418.07      .00      .00  1418.13      .06      .58      .00  1424.00
     375.       0.     375.       0.       0.     105.       0.       5.       4.   1420.00
```

```
      .18      .00     2.02      .00     .080     .050     .080     .000  1414.00  4962.08
   .001548     450.     370.     320.        3        0        0      .00    81.00  5043.08
0
1
  11/12/87    08:42:55                                                                    PAGE    5

    SECNO    DEPTH    CWSEL    CRIWS    WSELK     EG       HV       HL      OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB      ACH      AROB     VOL     TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL       XNCH     XNR      WTN     ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL    IDC      ICONT    CORAR   TOPWID     ENDST

  *SECNO  .313

  1645 INT SEC ADDED BY RAISING SEC      .31,  -1.500FT AND MULTIPLYING BY   1.403

      1.01     3.25  1418.75      .00      .00  1418.97      .22      .79      .05  1418.50
      370.       1.     369.       0.       3.      98.       0.       7.       4.   1418.50
       .20      .40     3.76      .40     .080     .050     .080     .000  1415.50  5011.93
   .007638     265.     270.     270.        2        0        0      .00    84.47  5096.40
0

  1645 INT SEC ADDED BY RAISING SEC     1.01,   1.500FT AND MULTIPLYING BY    .713

       .31     3.67  1420.67      .00      .00  1420.91      .25     1.94      .01  1420.00
      365.       11.     352.       2.      16.      87.       2.       7.       5.   1420.00
       .22      .73     4.06      .73     .080     .050     .080     .000  1417.00  4933.38
   .006759     265.     270.     270.        3        0        0      .00    94.11  5027.49
0
  *SECNO  .468
       .47     2.65  1425.65      .00      .00  1425.75      .10     4.82      .01  1428.00
      365.       0.     365.       0.       0.     144.       0.      10.       7.   1428.00
       .31      .00     2.53      .00     .080     .050     .080     .000  1423.00  4957.48
   .005166     740.     820.     820.        4        0        0      .00   111.66  5069.14
0
  *SECNO  .589
       .59     2.36  1431.26      .00      .00  1431.58      .31     5.77      .06  1432.00
      365.       0.     365.       0.       0.      81.       0.      11.       8.   1432.00
       .35      .00     4.50      .00     .080     .050     .080     .000  1429.00  4969.83
   .019534     670.     640.     620.        3        0        0      .00    71.64  5041.48
0
  *SECNO  .705
       .70     2.08  1436.58      .00      .00  1436.66      .07     5.06      .02  1436.00
      350.       76.     273.       1.      71.     113.       3.      13.      10.   1436.00
       .43     1.07     2.40      .55     .080     .050     .080     .000  1434.50  4852.46
   .004457     610.     610.     610.        5        0        0      .00   206.32  5058.77
0
  *SECNO  .790
       .79     1.37  1439.87      .00      .00  1440.04      .17     3.35      .03  1439.00
      350.       14.     336.       0.      11.      98.       0.      15.      12.   1440.00
       .46     1.28     3.42      .00     .080     .050     .080     .000  1438.50  4913.99
   .014573     480.     450.     430.        4        0        0      .00   131.58  5045.57
0
1
  11/12/87    08:42:55                                                                    PAGE    6

    SECNO    DEPTH    CWSEL    CRIWS    WSELK     EG       HV       HL      OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB      ACH      AROB     VOL     TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL       XNCH     XNR      WTN     ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL    IDC      ICONT    CORAR   TOPWID     ENDST

  *SECNO  .890
       .90     1.08  1445.68      .00      .00  1445.51      .11     5.67      .01  1440.00
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     345.      0.     345.      0.      0.     128.      0.     16.     13.   1448.00
      .52     .00     2.68     .00    .080     .050    .080    .000  1443.50  4905.12
   .007638    550.    530.    500.       4        0       0     .00   122.16  5027.27
0
 *SECNO  .983
      .98    2.07  1449.57     .00     .00  1449.82     .25    4.26     .04   1448.00
     345.     46.     280.     19.     29.      63.     12.     17.     14.   1448.00
      .55    1.58     4.42    1.57    .080     .050    .080    .000  1447.50  4947.94
   .010043    470.    490.    510.       3        0       0     .00    87.66  5035.60
0
 *SECNO 1.114
     1.11    1.92  1455.92     .00     .00  1456.03     .10    6.19     .01   1456.00
     335.      0.     335.      0.      0.     129.      0.     19.     16.   1456.00
      .63     .00     2.59     .00    .070     .050    .080    .000  1454.00  4923.16
   .008044    700.    690.    660.       4        0       0     .00   134.46  5057.63
0
 *SECNO 1.244
     1.24    2.15  1461.65     .00     .00  1461.88     .23    5.82     .04   1460.00
     335.     46.     249.     40.     26.      57.     26.     21.     18.   1460.00
      .68    1.79     4.36    1.56    .070     .050    .080    .000  1459.50  4953.98
   .009129    700.    680.    650.       4        0       0     .00    92.03  5046.02
0
 *SECNO 1.341
     1.34    2.07  1466.57     .00     .00  1466.70     .13    4.81     .01   1468.00
     325.      0.     325.      0.      0.     110.      0.     22.     19.   1468.00
      .73     .00     2.95     .00    .070     .050    .080    .000  1464.50  4928.98
   .009382    520.    520.    520.       3        0       0     .00   106.54  5035.51
0
 *SECNO 1.439
     1.44    1.95  1471.95     .00     .00  1472.12     .17    5.41     .01   1471.00
     325.     76.     249.      0.     55.      67.      0.     24.     21.   1472.00
      .77    1.40     3.69     .00    .070     .050    .080    .000  1470.00  4855.57
   .011597    520.    520.    520.       4        0       0     .00   168.85  5024.42
0
1
 11/12/87    08:42:55                                                                    PAGE    7


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 1.572
     1.57    1.97  1477.97     .00     .00  1478.10     .13    5.97     .00   1480.00
     315.      0.     315.      0.      0.     107.      0.     26.     23.   1480.00
      .84     .00     2.93     .00    .070     .050    .080    .000  1476.00  4950.47
   .006490    700.    700.    700.       2        0       0     .00    79.21  5029.68
0
 *SECNO 1.695
     1.70    1.97  1482.87     .00     .00  1483.03     .16    4.92     .01   1482.00
     315.     10.     305.      0.      9.      93.      0.     27.     24.   1484.00
      .90    1.15     3.28     .00    .070     .050    .080    .000  1481.00  4925.36
   .008947    650.    650.    670.       3        0       0     .00    93.36  5018.73
0
 *SECNO 1.795
     1.79    2.42  1488.42     .00     .00  1488.57     .16    5.54     .00   1492.00
     305.      0.     305.      0.      0.      96.      0.     28.     25.   1492.00
      .94     .00     3.18     .00    .070     .050    .080    .000  1486.00  4936.98
   .012453    530.    530.    530.       4        0       0     .00   102.28  5039.16
0
 *SECNO 1.913
     1.91    2.70  1495.70     .00     .00  1495.93     .23    7.34     .02   1496.00
     305.      0.     305.      0.      0.      79.      0.     30.     26.   1496.00
      .99     .00     3.05     .00    .070     .050    .080    .000  1493.00  4969.66
```

```
  .011271    620.    620.    620.      5       0       0     .00   58.61  5027.05
0
 *SECNO 2.051
     2.05    1.81  1501.81     .00     .00  1501.93     .12    5.99     .01  1504.00
     285.      0.     285.      0.      0.     102.      0.     31.     28.   1504.00
     1.06     .00     2.78     .00    .070    .050    .080    .000  1500.00  4952.82
  .006121    730.    730.    730.      5       0       0     .00   78.03  5030.85
0
 *SECNO 2.163
     2.16    2.11  1507.61     .00     .00  1507.89     .28    5.91     .05  1508.00
     285.      0.     285.      0.      0.      67.      0.     32.     28.   1508.00
     1.10     .00     4.27     .00    .070    .050    .080    .000  1505.50  4970.47
  .019304    610.    590.    580.      4       0       0     .00   63.27  5033.74
0
1
 11/12/87    08:42:55                                                                    PAGE    8


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 2.269
     2.27    2.96  1512.96     .00     .00  1513.08     .12    5.17     .02  1516.00
     275.      0.     275.      0.      0.     100.      0.     33.     29.   1516.00
     1.16     .00     2.76     .00    .070    .050    .080    .000  1510.00  4962.00
  .005237    580.    560.    540.      4       0       0     .00   69.00  5031.00
0
 *SECNO 2.379
     2.38    1.76  1517.76     .00     .00  1518.06     .30    4.93     .05  1520.00
     265.      0.     265.      0.      0.      61.      0.     34.     30.   1520.00
     1.19     .00     4.37     .00    .070    .050    .080    .000  1516.00  4972.35
  .016271    600.    580.    480.      4       0       0     .00   48.68  5021.03
0
 *SECNO 2.483
     2.48    2.88  1522.88     .00     .00  1523.01     .13    4.93     .02  1524.00
     265.      0.     265.      0.      0.      93.      0.     35.     31.   1524.00
     1.25     .00     2.84     .00    .070    .050    .080    .000  1520.00  4978.41
  .005662    520.    550.    580.      4       0       0     .00   64.77  5043.18
0
 *SECNO 2.587
     2.59    3.14  1529.14     .00     .00  1529.30     .16    6.28     .01  1532.00
     265.      0.     265.      0.      0.      83.      0.     38.     32.   1532.00
     1.34     .00     3.18     .00    .070    .050    .080    .000  1526.00  4972.84
  .005765   1100.   1100.   1100.      4       0       0     .00   49.31  5022.16
0
1
 PROFILE FOR STREAM  CAP OVERCHUTE 13-EAST WA


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1400.     1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.
    SECND   CUMDIS

     .00      0.  C   I E  .        .        .        .        .        .        .        .        .        .
            100.  C   I EL .        .        .        .        .        .        .        .        .        .
    1.01    200.  C    IELM .       .        .        .        .        .        .        .        .        .
            300.  C     IEM .       .        .        .        .        .        .        .        .        .
     .07    400.  C     I EM.       .        .        .        .        .        .        .        .        .
            500.  C     I EM.       .        .        .        .        .        .        .        .        .
            600.  C      IEM
```

```
      700.  C     IEM.        .         .         .         .         .         .         .         .         .
      800.  C     IEM.        .         .         .         .         .         .         .         .         .
      900.  C     IWEM        .         .         .         .         .         .         .         .         .
     1000.  C     ILEM        .         .         .         .         .         .         .         .         .
 .14 1100.  C      IEM        .         .         .         .         .         .         .         .         .
     1200.  C     I EM        .         .         .         .         .         .         .         .         .
     1300.  C     I EL        .         .         .         .         .         .         .         .         .
 .21 1400.  C     I ERML      .         .         .         .         .         .         .         .         .
     1500.  C     I ERL       .         .         .         .         .         .         .         .         .
     1600.  C      IEL        .         .         .         .         .         .         .         .         .
1.01 1700.  C      IEM        .         .         .         .         .         .         .         .         .
     1800.  C      I EM       .         .         .         .         .         .         .         .         .
     1900.  C      I EM       .         .         .         .         .         .         .         .         .
 .31 2000.  C       IEM       .         .         .         .         .         .         .         .         .
     2100.  C       ILE       .         .         .         .         .         .         .         .         .
     2200.  C       I.EM      .         .         .         .         .         .         .         .         .
     2300.  C        IEM      .         .         .         .         .         .         .         .         .
     2400.  C        I E      .         .         .         .         .         .         .         .         .
     2500.  C        I EM     .         .         .         .         .         .         .         .         .
     2600.  C        .IEL     .         .         .         .         .         .         .         .         .
     2700.  C        .IWEM    .         .         .         .         .         .         .         .         .
 .47 2800.  C        . IEL    .         .         .         .         .         .         .         .         .
     2900.  C        . IEL    .         .         .         .         .         .         .         .         .
     3000.  C        . I EL   .         .         .         .         .         .         .         .         .
     3100.  C        .  IEL   .         .         .         .         .         .         .         .         .
     3200.  C        .  I EM  .         .         .         .         .         .         .         .         .
     3300.  C        .   IEL  .         .         .         .         .         .         .         .         .
 .59 3400.  C        .    IEM .         .         .         .         .         .         .         .         .
     3500.  C        .    IEM .         .         .         .         .         .         .         .         .
     3600.  C        .    I EM .        .         .         .         .         .         .         .         .
     3700.  C        .     IEM .        .         .         .         .         .         .         .         .
     3800.  C        .     IE M.        .         .         .         .         .         .         .         .
     3900.  C        .      IEM.        .         .         .         .         .         .         .         .
 .70 4000.  C        .      IE M        .         .         .         .         .         .         .         .
     4100.  C        .       IEM        .         .         .         .         .         .         .         .
     4200.  C        .       IE.M       .         .         .         .         .         .         .         .
     4300.  C        .        E.M       .         .         .         .         .         .         .         .
     4400.  C        .        IE M      .         .         .         .         .         .         .         .
 .79 4500.  C        .        IE M      .         .         .         .         .         .         .         .
     4600.  C        .         WEM      .         .         .         .         .         .         .         .
     4700.  C        .         IERM     .         .         .         .         .         .         .         .
     4800.  C        .         .IEM     .         .         .         .         .         .         .         .
     4900.  C        .         .IELM    .         .         .         .         .         .         .         .
 .89 5000.  C        .         . IEL    .         .         .         .         .         .         .         .
     5100.  C        .         . IELM   .         .         .         .         .         .         .         .
     5200.  C        .         .  IEM   .         .         .         .         .         .         .         .
     5300.  C        .         .  IE M  .         .         .         .         .         .         .         .
     5400.  C        .         .  IWEM  .         .         .         .         .         .         .         .
 .98 5500.  C        .         .   IE M .         .         .         .         .         .         .         .
     5600.  C        .         .   IE M .         .         .         .         .         .         .         .
     5700.  C        .         .    IEM .         .         .         .         .         .         .         .
     5800.  C        .         .    IE M .        .         .         .         .         .         .         .
     5900.  C        .         .     IEM .        .         .         .         .         .         .         .
     6000.  C        .         .     IEM .        .         .         .         .         .         .         .
     6100.  C        .         .      IEM.        .         .         .         .         .         .         .
1.11 6200.  C        .         .      IEM.        .         .         .         .         .         .         .
     6300.  C        .         .      IEM.        .         .         .         .         .         .         .
     6400.  C        .         .       IEM        .         .         .         .         .         .         .
     6500.  C        .         .       IEM        .         .         .         .         .         .         .
     6600.  C        .         .        IEM       .         .         .         .         .         .         .
     6700.  C        .         .        IEM       .         .         .         .         .         .         .
     6800.  C        .         .        IWEM      .         .         .         .         .         .         .
1.24 6900.  C        .         .         IEM      .         .         .         .         .         .         .
     7000.  C        .         .         IE M     .         .         .         .         .         .         .
     7100.  C        .         .         .IEM     .         .         .         .         .         .         .
     7200.  C        .         .          IE M
```

```
     7300.  C   .   .   . IEM   .   .   .   .   .   .   .
1.34 7400.  C   .   .   . IELM  .   .   .   .   .   .   .
     7500.  C   .   .   . IEM   .   .   .   .   .   .   .
     7600.  C   .   .   . IELM  .   .   .   .   .   .   .
     7700.  C   .   .   . IEM   .   .   .   .   .   .   .
     7800.  C   .   .   . IER   .   .   .   .   .   .   .
1.44 7900.  C   .   .   . IEM   .   .   .   .   .   .   .
     8000.  C   .   .   . IER   .   .   .   .   .   .   .
     8100.  C   .   .   . IEM   .   .   .   .   .   .   .
     8200.  C   .   .   . IER   .   .   .   .   .   .   .
     8300.  C   .   .   . IEM.  .   .   .   .   .   .   .
     8400.  C   .   .   . IEL.  .   .   .   .   .   .   .
     8500.  C   .   .   . IEM   .   .   .   .   .   .   .
1.57 8600.  C   .   .   . IEL   .   .   .   .   .   .   .
     8700.  C   .   .   . IELM  .   .   .   .   .   .   .
     8800.  C   .   .   . IER   .   .   .   .   .   .   .
     8900.  C   .   .   . IERM  .   .   .   .   .   .   .
     9000.  C   .   .   . WEM   .   .   .   .   .   .   .
     9100.  C   .   .   . IERM  .   .   .   .   .   .   .
     9200.  C   .   .   . IER M .   .   .   .   .   .   .
1.70 9300.  C   .   .   . .WE M .   .   .   .   .   .   .
     9400.  C   .   .   . .IERM .   .   .   .   .   .   .
     9500.  C   .   .   . .IWERM .   .   .   .   .   .   .
     9600.  C   .   .   . . IELM .   .   .   .   .   .   .
     9700.  C   .   .   . . I ELM .   .   .   .   .   .   .
1.79 9800.  C   .   .   . . IE L .   .   .   .   .   .   .
     9900.  C   .   .   . . IEL .   .   .   .   .   .   .
    10000.  C   .   .   . . IE L .   .   .   .   .   .   .
    10100.  C   .   .   . . IEL .   .   .   .   .   .   .
    10200.  C   .   .   . . I EM .   .   .   .   .   .   .
    10300.  C   .   .   . . IEL .   .   .   .   .   .   .
1.91 10400. C   .   .   . . IEM.   .   .   .   .   .   .
    10500.  C   .   .   . . IELM  .   .   .   .   .   .   .
    10600.  C   .   .   . . I EM  .   .   .   .   .   .   .
    10700.  C   .   .   . . IELM  .   .   .   .   .   .   .
    10800.  C   .   .   . . I E M .   .   .   .   .   .   .
    10900.  C   .   .   . . IELM  .   .   .   .   .   .   .
    11000.  C   .   .   . . IEL M .   .   .   .   .   .   .
    11100.  C   .   .   . . IEL M .   .   .   .   .   .   .
2.05 11200. C   .   .   . . IEL M .   .   .   .   .   .   .
    11300.  C   .   .   . . IEL M .   .   .   .   .   .   .
    11400.  C   .   .   . . .IEL M .   .   .   .   .   .   .
    11500.  C   .   .   . . .IEL M .   .   .   .   .   .   .
    11600.  C   .   .   . . . IE M .   .   .   .   .   .   .
2.16 11700. C   .   .   . . . IE M .   .   .   .   .   .   .
    11800.  C   .   .   . . . IELM .   .   .   .   .   .   .
    11900.  C   .   .   . . . IE M .   .   .   .   .   .   .
    12000.  C   .   .   . . . IELM .   .   .   .   .   .   .
    12100.  C   .   .   . . . I EL .   .   .   .   .   .   .
    12200.  C   .   .   . . . IE L .   .   .   .   .   .   .
2.27 12300. C   .   .   . . . IWEL .   .   .   .   .   .   .
    12400.  C   .   .   . . . IELM.   .   .   .   .   .   .
    12500.  C   .   .   . . . IE L.   .   .   .   .   .   .
    12600.  C   .   .   . . . IELM    .   .   .   .   .   .
    12700.  C   .   .   . . . IELM    .   .   .   .   .   .
    12800.  C   .   .   . . . IELM    .   .   .   .   .   .
2.38 12900. C   .   .   . . . IEL M   .   .   .   .   .   .
    13000.  C   .   .   . . . IEL M   .   .   .   .   .   .
    13100.  C   .   .   . . . IELM    .   .   .   .   .   .
    13200.  C   .   .   . . . IEL M   .   .   .   .   .   .
    13300.  C   .   .   . . . I.E M   .   .   .   .   .   .
2.48 13400. C   .   .   . . . IWE M   .   .   .   .   .   .
    13500.  C   .   .   . . . I E M   .   .   .   .   .   .
    13600.  C   .   .   . . . .IELM   .   .   .   .   .   .
    13700.  C   .   .   . . . .IEL M  .   .   .   .   .   .
    13800.  C                 .I E M
```

```
        13900.  C      .      .      .      .      .      .I ELM  .      .      .      .
        14000.  C      .      .      .      .      .      . IELM  .      .      .      .
        14100.  C      .      .      .      .      .      . IWEL  .      .      .      .
        14200.  C      .      .      .      .      .      . I EL  .      .      .      .
        14300.  C      .      .      .      .      .      . I ELM .      .      .      .
        14400.  C      .      .      .      .      .      .  IE L .      .      .      .
   2.59 14500.  C      .      .      .      .      .      .  I EL .      .      .      .
```


THIS RUN EXECUTED 11/12/87 08:43:39

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 13-EAST WA

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	397.00	1412.30	4922.89	4920.00	5025.00	5035.50	.00	112.61	4.80	1407.50	5.85	1.41
*	.072	397.00	1415.18	4961.78	4950.00	5055.00	5042.04	2.71	80.27	2.68	1412.50	105.30	3.70
	.140	397.00	1417.50	4920.73	4955.00	5050.00	5092.84	2.32	172.11	2.50	1415.00	15.85	1.88
	.210	375.00	1418.07	4962.08	4920.00	5060.00	5043.09	.57	81.00	4.07	1414.00	15.48	2.02
*	.313	365.00	1420.67	4933.38	4980.00	5020.00	5027.49	1.92	94.11	3.67	1417.00	67.59	4.06
	.468	365.00	1425.65	4957.48	4925.00	5140.00	5069.14	4.98	111.66	2.65	1423.00	51.66	2.53
	.589	365.00	1431.26	4969.83	4960.00	5055.00	5041.48	5.62	71.64	2.26	1429.00	195.34	4.50
	.705	350.00	1436.58	4852.46	4965.00	5050.00	5058.77	5.32	206.32	2.08	1434.50	44.57	2.40
	.790	350.00	1439.87	4913.99	4940.00	5050.00	5045.57	3.28	131.58	1.37	1438.50	145.73	3.42
	.890	345.00	1445.40	4905.12	4785.00	5050.00	5027.27	5.53	122.16	1.90	1443.50	76.39	2.68
	.983	345.00	1449.57	4947.94	4985.00	5020.00	5035.60	4.17	87.66	2.07	1447.50	100.43	4.42
	1.114	335.00	1455.92	4923.16	4920.00	5060.00	5057.63	6.36	134.46	1.92	1454.00	80.44	2.59
	1.244	335.00	1461.65	4953.98	4985.00	5015.00	5046.02	5.73	92.03	2.15	1459.50	91.29	4.36
	1.341	325.00	1466.57	4928.98	4880.00	5060.00	5035.51	4.92	106.54	2.07	1464.50	93.82	2.95
	1.439	325.00	1471.35	4855.57	4970.00	5025.00	5024.42	5.38	168.85	1.95	1470.00	115.97	3.69
	1.572	315.00	1477.97	4950.47	4920.00	5050.00	5029.68	6.01	79.21	1.97	1476.00	64.90	2.93
	1.695	315.00	1482.87	4925.36	4945.00	5030.00	5018.73	4.90	93.36	1.87	1481.00	89.47	3.28

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
1.795	305.00	1488.42	4936.88	4910.00	5075.00	5039.16	5.55	102.28	2.42	1486.00	124.53	3.18
1.913	305.00	1495.70	4968.44	4965.00	5030.00	5027.05	7.29	58.61	2.70	1493.00	112.71	3.85
2.051	285.00	1501.81	4952.82	4920.00	5050.00	5030.85	6.11	78.03	1.81	1500.00	61.21	2.78
2.163	285.00	1507.61	4970.47	4965.00	5040.00	5033.74	5.80	63.27	2.11	1505.50	193.04	4.27
2.269	275.00	1512.96	4962.00	4905.00	5050.00	5031.00	5.35	69.00	2.96	1510.00	52.97	2.76
2.379	265.00	1517.76	4972.35	4950.00	5035.00	5021.03	4.81	48.68	1.76	1516.00	162.71	4.37
2.483	265.00	1522.88	4978.41	4970.00	5060.00	5043.18	5.12	64.77	2.88	1520.00	56.62	2.84
2.587	265.00	1529.14	4972.84	4955.00	5040.00	5022.16	6.26	49.31	3.14	1526.00	57.65	3.18

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .072 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .313 PROFILE= 1 INTERPOLATED XSECTIONS USED

THIS RUN EXECUTED 11/12/87 08:43:43

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION
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INPUT FILE: CAP14EST

OUTPUT FILE: CAP14EST.OUT

THIS RUN EXECUTED 11/12/87 10:28:25

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 14-EAST WASH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.005600	.00	.5	1122.	1414.000	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

LAKE BONITA

NC	.080	.080	.050	.300	.500	.000	.000	.000	.000	.000
X1	.000	6.000	4980.000	5020.000	.000	.000	.000	.000	.000	.000
GR	1415.000	4965.000	1412.000	4980.000	1410.000	5000.000	1412.000	5020.000	1416.000	5075.000
GR	1420.000	5100.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.085	5.000	4970.000	5140.000	450.000	450.000	450.000	.000	.000	.000
X2	1122.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1420.000	4940.000	1416.000	4970.000	1412.500	5000.000	1416.000	5140.000	1420.000	5200.000
X1	.307	6.000	4960.000	5125.000	960.000	1100.000	1170.000	.000	.000	.000
X2	1110.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1424.000	4620.000	1420.000	4960.000	1416.500	5000.000	1416.500	5080.000	1420.000	5125.000
GR	1424.000	5250.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.070	.050	.100	.300	.000	.000	.000	.000	.000
X1	.572	7.000	4940.000	5060.000	1400.000	1400.000	1400.000	.000	.000	.000
X2	1105.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1432.000	4840.000	1428.000	4880.000	1424.000	4975.000	1422.000	5000.000	1424.000	5030.000
GR	1428.000	5050.000	1432.000	5060.000	.000	.000	.000	.000	.000	.000
X1	.799	5.000	4955.000	5090.000	1200.000	1200.000	1200.000	.000	.000	.000
X2	1100.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1436.000	4955.000	1432.000	4975.000	1428.000	5000.000	1432.000	5030.000	1436.000	5090.000

```
X1      1.083      5.000   4955.000   5055.000   1500.000   1500.000   1500.000       .000       .000       .000
X2   1030.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1448.000   4955.000   1444.000   4975.000   1441.000   5000.000   1444.000   5055.000   1448.000   5085.000
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DIXILETA BLVD.

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X1      1.348      5.000   4920.000   5060.000   1400.000   1400.000   1400.000       .000       .000       .000
X2   1085.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1460.000   4920.000   1456.000   4985.000   1452.000   5010.000   1456.000   5045.000   1460.000   5060.000

X1      1.604      5.000   4965.000   5045.000   1350.000   1350.000   1350.000       .000       .000       .000
X2   1079.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1480.000   4920.000   1466.000   4965.000   1462.000   5000.000   1466.000   5045.000   1480.000   5170.000

X1      1.765      5.000   4900.000   5090.000    810.000    820.000    850.000       .000       .000       .000
X2    808.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1488.000   4900.000   1480.000   4970.000   1472.000   5000.000   1480.000   5055.000   1484.000   5090.000

X1      1.869      5.000   4935.000   5060.000    550.000    550.000    550.000       .000       .000       .000
X2    805.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1492.000   4935.000   1480.000   4980.000   1477.500   5000.000   1480.000   5020.000   1492.000   5060.000

X1      1.979      4.000   4960.000   5035.000    580.000    590.000    580.000       .000       .000       .000
X2    805.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1492.000   4960.000   1484.000   5000.000   1488.000   5035.000   1492.000   5065.000       .000       .000

X1      2.104      6.000   4930.000   5080.000    700.000    620.000    660.000       .000       .000       .000
X2    795.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1497.000   4810.000   1496.000   4930.000   1492.000   4980.000   1492.000   5010.000   1496.000   5080.000
GR   1500.000   5190.000       .000       .000       .000       .000       .000       .000       .000       .000

X1      2.275      5.000   4840.000   5050.000    780.000    920.000    900.000       .000       .000       .000
X2    785.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1507.000   4840.000   1504.000   4925.000   1500.000   4980.000   1500.000   5020.000   1512.000   5050.000

X1      2.508      3.000   4950.000   5055.000   1230.000   1230.000   1230.000       .000       .000       .000
X2    775.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1520.000   4950.000   1512.000   5000.000   1520.000   5055.000       .000       .000       .000       .000
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OVERCHUTE

```
X1      2.678      5.000   4940.000   5040.000    900.000    900.000    900.000       .000       .000       .000
X2    768.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
GR   1532.000   4940.000   1524.000   4985.000   1524.000   5000.000   1528.000   5040.000   1532.000   5180.000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
```



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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COBAR    TOPWID   ENDST


*PROF 1

CCHV=    .300 CEHV=    .500
*SECNO  .000
280 CROSS SECTION       .00 EXTENDED       .13 FEET

     .00     5.13  1415.13      .00  1414.00  1415.57      .44      .00      .00  1412.00
    1122.     46.     949.     127.      24.     165.      67.       0.       0.  1412.00
     .00     1.90     5.74     1.88     .080     .050     .080     .000  1410.00  4965.00
  .005671       0.       0.       0.        0        0        4      .00    90.04  5063.04
0
*SECNO  .085
```

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      .09     4.43  1416.93      .00      .00  1417.02      .09     1.34      .10  1416.00
     1122.       2.     1117.       3.       3.     455.       6.       4.       1.  1416.00
      .05      .47     2.45      .48     .080     .050     .080     .000  1412.50  4963.04
   .001839     450.     450.     450.        3        0        0      .00   190.87  5153.91
0
 *SECNO  .307
      .31     3.16  1419.66      .00      .00  1419.80      .14     2.75      .02  1420.00
     1110.       0.     1110.       0.       0.     374.       0.      15.       6.  1420.00
      .16      .00     2.97      .00     .080     .050     .080     .000  1416.50  4963.83
   .003134     960.     1170.    1100.        3        0        0      .00   156.74  5120.63
0
 CCHV=    .100 CEHV=    .300
 *SECNO  .572
      .57     4.25  1426.25      .00      .00  1426.55      .30     6.71      .05  1432.00
     1105.       0.     1105.       0.       0.     251.       0.      25.      11.  1432.00
      .25      .00     4.41      .00     .070     .050     .070     .000  1422.00  4921.75
   .008237    1400.     1400.    1400.        3        0        0      .00   119.46  5041.21
0
 *SECNO  .799
      .00     6.03  1434.03      .00      .00  1434.30      .27     7.75      .00  1436.00
     1100.       0.     1100.       0.       0.     263.       0.      32.      14.  1436.00
      .33      .00     4.18      .00     .070     .050     .070     .000  1428.00  4964.83
   .005193    1200.     1200.    1200.        4        0        0      .00    95.66  5060.50
0
 *SECNO 1.083
     1.08     3.93  1444.93      .00      .00  1445.40      .47    11.04      .06  1448.00
     1090.       0.     1086.       4.       0.     197.       3.      40.      17.  1444.00
      .40      .00     5.52     1.35     .070     .050     .070     .000  1441.00  4970.34
   .011276    1500.     1500.    1500.        5        0        0      .00    91.64  5061.98
0
1
 11/12/87    10:28:24                                                                  PAGE    4

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       ULOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 1.348
     1.35     5.48  1457.48      .00      .00  1457.83      .34    12.41      .01  1460.00
     1085.       0.     1085.       0.       0.     231.       0.      47.      20.  1460.00
      .49      .00     4.69      .00     .070     .050     .070     .000  1452.00  4950.88
   .007145    1400.     1400.    1400.        4        0        0      .00    89.69  5050.57
0
 *SECNO 1.604
     1.60     4.00  1466.00      .00      .00  1467.15      .36     9.32      .00  1466.00
     1079.       1.     1075.       3.       1.     224.       3.      54.      22.  1466.00
      .57      .91     4.81      .94     .070     .050     .070     .000  1462.00  4962.44
   .006678    1350.     1350.    1350.        5        0        0      .00    89.68  5052.12
0
 *SECNO 1.765

 1645 INT SEC ADDED BY RAISING SEC      1.76,  -5.000FT AND MULTIPLYING BY   1.415

     1.01     4.12  1471.12      .00      .00  1471.97      .85     4.67      .15  1483.00
      944.       0.      943.       0.       0.     127.       0.      56.      23.  1479.00
      .58      .00     7.40      .00     .070     .050     .070     .000  1467.00  5019.69
   .024004     405.      425.     410.        2        0        0      .00    61.91  5081.60
0

 1645 INT SEC ADDED BY RAISING SEC      1.01,   5.000FT AND MULTIPLYING BY    .707

     1.76     5.41  1477.41      .00      .00  1477.83      .42     5.81      .04  1488.00
      808.       0.      808.       0.       0.     156.       0.      57.      24.  1484.00
```

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     .60      .00     5.18      .00     .070     .050     .070     .000  1472.00  4973.03
   .008268    405.     425.     410.       4        0        0      .00    57.55  5037.24
0
 *SECNO 1.869
     1.87     4.59  1482.09      .00      .00  1482.54      .45     4.70      .01  1492.00
     805.       0.     805.       0.       0.     149.       0.      59.      24.   1492.00
      .63      .00     5.39      .00     .070     .050     .070     .000  1477.50  4972.14
   .008840    550.     550.     550.        3        0        0      .00    54.84  5026.98
0
 *SECNO 1.979
     1.98     4.38  1488.38      .00      .00  1488.96      .58     6.39      .04  1492.00
     805.       0.     805.       0.       0.     132.       1.      61.      25.   1488.00
      .66      .00     6.12      .83     .070     .050     .070     .000  1484.00  4978.08
   .014087    580.     580.     580.        3        0        0      .00    59.80  5037.88
0
1
 11/12/87    10:28:24                                                                          PAGE    5

    SECNO    DEPTH    CWSEL    CRIWS    WSELK     EG       HV       HL      OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB      ACH      AROB     VOL     TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XML       XNCH     XNR      WTN     ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL    IDC      ICONT    CORAR   TOPWID     ENDST

 *SECNO 2.104
     2.10     2.95  1494.95      .00      .00  1495.15      .20     6.15      .04  1496.00
     795.       0.     795.       0.       0.     219.       0.      64.      27.   1496.00
      .71      .00     3.63      .00     .070     .050     .070     .000  1492.00  4943.13
   .006593    700.     660.     620.        5        0        0      .00   118.49  5061.62
0
 *SECNO 2.275
     2.28     2.59  1502.59      .00      .00  1502.97      .38     7.76      .05  1507.00
     785.       0.     785.       0.       0.     158.       0.      68.      29.   1512.00
      .76      .00     4.97      .00     .070     .050     .070     .000  1500.00  4944.44
   .011820    700.     900.     920.        4        0        0      .00    82.03  5026.47
0
 *SECNO 2.508
     2.51     4.65  1516.65      .00      .00  1517.12      .46    14.12      .02  1520.00
     775.       0.     775.       0.       0.     142.       0.      72.      31.   1520.00
      .82      .00     5.47      .00     .070     .050     .070     .000  1512.00  4970.95
   .011152   1230.    1230.    1230.        4        0        0      .00    61.01  5031.96
0
 *SECNO 2.678
     2.68     3.40  1527.40      .00      .00  1527.86      .46    10.74      .00  1532.00
     768.       0.     768.       0.       0.     141.       0.      75.      32.   1528.00
      .87      .00     5.44      .00     .070     .050     .070     .000  1524.00  4965.90
   .012817    900.     900.     900.        4        0        0      .00    68.07  5033.96
0
1
 PROFILE FOR STREAM  CAP OVERCHUTE 14-EAST WA


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1400.     1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.
    SECNO   CUMDIS

      .00      0.  C   IL E .      .         .         .         .         .         .         .         .
              100.  C   IL E .      .         .         .         .         .         .         .         .
              200.  C    ILEM.     .         .         .         .         .         .         .         .
              300.  C    ILEM.     .         .         .         .         .         .         .         .
              400.  C    I E M     .         .         .         .         .         .         .         .
      .09     500.  C    I WEM     .         .         .         .         .         .         .         .
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```
      600.  C     I LEM      .         .         .         .         .         .         .         .
      700.  C     ILEM       .         .         .         .         .         .         .         .
      800.  C     I E.M      .         .         .         .         .         .         .         .
      900.  C     I E.M      .         .         .         .         .         .         .         .
     1000.  C     I E.M      .         .         .         .         .         .         .         .
     1100.  C     I E.M      .         .         .         .         .         .         .         .
     1200.  C     I E.M      .         .         .         .         .         .         .         .
     1300.  C      IE.M      .         .         .         .         .         .         .         .
     1400.  C      I E M     .         .         .         .         .         .         .         .
     1500.  C      I E M     .         .         .         .         .         .         .         .
     1600.  C      I E M     .         .         .         .         .         .         .         .
 .31 1700.  C      I E M     .         .         .         .         .         .         .         .
     1800.  C      I E M     .         .         .         .         .         .         .         .
     1900.  C       IEL M    .         .         .         .         .         .         .         .
     2000.  C       I.E M    .         .         .         .         .         .         .         .
     2100.  C       I.ELM    .         .         .         .         .         .         .         .
     2200.  C       I.ELM    .         .         .         .         .         .         .         .
     2300.  C       I.E LM   .         .         .         .         .         .         .         .
     2400.  C        IWELM   .         .         .         .         .         .         .         .
     2500.  C        I ELM   .         .         .         .         .         .         .         .
     2600.  C        I E LM  .         .         .         .         .         .         .         .
     2700.  C        I E LM  .         .         .         .         .         .         .         .
     2800.  C        I WE L  .         .         .         .         .         .         .         .
     2900.  C        .I E L  .         .         .         .         .         .         .         .
     3000.  C        .I E  L .         .         .         .         .         .         .         .
 .57 3100.  C        .I E  L .         .         .         .         .         .         .         .
     3200.  C        .I WE L .         .         .         .         .         .         .         .
     3300.  C        . I E L .         .         .         .         .         .         .         .
     3400.  C        . I E  L .        .         .         .         .         .         .         .
     3500.  C        . I WE L .        .         .         .         .         .         .         .
     3600.  C        . I  E L .        .         .         .         .         .         .         .
     3700.  C        .  I E L .        .         .         .         .         .         .         .
     3800.  C        .  I WEL .        .         .         .         .         .         .         .
     3900.  C        .  I  EL .        .         .         .         .         .         .         .
     4000.  C        .  I  E L .       .         .         .         .         .         .         .
     4100.  C        .   I WEL .       .         .         .         .         .         .         .
     4200.  C        .   I  EL .       .         .         .         .         .         .         .
 .80 4300.  C        .   I  EL .       .         .         .         .         .         .         .
     4400.  C        .   I  WE .       .         .         .         .         .         .         .
     4500.  C        .    I  EL.       .         .         .         .         .         .         .
     4600.  C        .    I  EL.       .         .         .         .         .         .         .
     4700.  C        .     I WEL       .         .         .         .         .         .         .
     4800.  C        .     I  EL       .         .         .         .         .         .         .
     4900.  C        .      I EL       .         .         .         .         .         .         .
     5000.  C        .      I  EL      .         .         .         .         .         .         .
     5100.  C        .      I  EL      .         .         .         .         .         .         .
     5200.  C        .       I E L     .         .         .         .         .         .         .
     5300.  C        .       I .EL     .         .         .         .         .         .         .
     5400.  C        .        I.EL     .         .         .         .         .         .         .
     5500.  C        .        I.WEL    .         .         .         .         .         .         .
     5600.  C        .         IREL    .         .         .         .         .         .         .
     5700.  C        .         I E L   .         .         .         .         .         .         .
1.08 5800.  C        .         .IWEL   .         .         .         .         .         .         .
     5900.  C        .         .I EL   .         .         .         .         .         .         .
     6000.  C        .         .I WEL  .         .         .         .         .         .         .
     6100.  C        .         . I EL  .         .         .         .         .         .         .
     6200.  C        .         . I E L .         .         .         .         .         .         .
     6300.  C        .         . I  EL .         .         .         .         .         .         .
     6400.  C        .         .  I E L .        .         .         .         .         .         .
     6500.  C        .         .  I  EL .        .         .         .         .         .         .
     6600.  C        .         .   I EL .        .         .         .         .         .         .
     6700.  C        .         .   I WEL .       .         .         .         .         .         .
     6800.  C        .         .   I  EL .       .         .         .         .         .         .
     6900.  C        .         .    I WEL.       .         .         .         .         .         .
     7000.  C        .         .    I  EL.       .         .         .         .         .         .
     7100.  C        .         .     I ERL       .         .         .         .         .         .
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1.35  7200.  C     .     .   I EL      .     .     .     .     .     .     .
      7300.  C     .     .   I ELM     .     .     .     .     .     .     .
      7400.  C     .     .    I WEM    .     .     .     .     .     .     .
      7500.  C     .     .    I ELM    .     .     .     .     .     .     .
      7600.  C     .     .    I EL M   .     .     .     .     .     .     .
      7700.  C     .     .     I WE M  .     .     .     .     .     .     .
      7800.  C     .     .     I .E M  .     .     .     .     .     .     .
      7900.  C     .     .      I.EL M .     .     .     .     .     .     .
      8000.  C     .     .      I. E M .     .     .     .     .     .     .
      8100.  C     .     .      I. E  M.     .     .     .     .     .     .
      8200.  C     .     .       I E  M.     .     .     .     .     .     .
      8300.  C     .     .       I LE  M.    .     .     .     .     .     .
      8400.  C     .     .       I  E   M.   .     .     .     .     .     .
1.60  8500.  C     .     .       .I WE   M   .     .     .     .     .     .
      8600.  C     .     .       . I EL  M   .     .     .     .     .     .
      8700.  C     .     .       . I WERL M  .     .     .     .     .     .
      8800.  C     .     .       .  I E RLM  .     .     .     .     .     .
1.01  8900.  C     .     .       .   I E  R L .     .     .     .     .     .
      9000.  C     .     .       .   I WE R L .     .     .     .     .     .
      9100.  C     .     .       .    I E .R L .     .     .     .     .     .
      9200.  C     .     .       .    I  E.R L .     .     .     .     .     .
      9300.  C     .     .       .     I  E. R L .     .     .     .     .     .
1.76  9400.  C     .     .       .     I  E. R L .     .     .     .     .     .
      9500.  C     .     .       .      I E.  RL .     .     .     .     .     .
      9600.  C     .     .       .      I  E  R L .     .     .     .     .     .
      9700.  C     .     .       .       I E  RL .     .     .     .     .     .
      9800.  C     .     .       .       I WE  L .     .     .     .     .     .
1.87  9900.  C     .     .       .        I.E  L .     .     .     .     .     .
     10000.  C     .     .       .        I. E L .     .     .     .     .     .
     10100.  C     .     .       .         I E RL .     .     .     .     .     .
     10200.  C     .     .       .         I  E RL .     .     .     .     .     .
     10300.  C     .     .       .         .I E RL .     .     .     .     .     .
     10400.  C     .     .       .         . I E L .     .     .     .     .     .
1.98 10500.  C     .     .       .         . I E L .     .     .     .     .     .
     10600.  C     .     .       .          . I EL .     .     .     .     .     .
     10700.  C     .     .       .          . I E L .     .     .     .     .     .
     10800.  C     .     .       .           . I EL .     .     .     .     .     .
     10900.  C     .     .       .           . I ELM .     .     .     .     .     .
     11000.  C     .     .       .            . I EL .     .     .     .     .     .
     11100.  C     .     .       .             IEL .     .     .     .     .     .
2.10 11200.  C     .     .       .             IWEM.     .     .     .     .     .
     11300.  C     .     .       .             I EL.     .     .     .     .     .
     11400.  C     .     .       .              IELR     .     .     .     .     .
     11500.  C     .     .       .              I ELR    .     .     .     .     .
     11600.  C     .     .       .               IELMR   .     .     .     .     .
     11700.  C     .     .       .               I ELR   .     .     .     .     .
     11800.  C     .     .       .                IE LR  .     .     .     .     .
     11900.  C     .     .       .                IWEL R .     .     .     .     .
     12000.  C     .     .       .                 IE L R .     .     .     .     .
2.28 12100.  C     .     .       .                 IE  L R .     .     .     .     .
     12200.  C     .     .       .                 I E L R .     .     .     .     .
     12300.  C     .     .       .                 .IWE L R .     .     .     .     .
     12400.  C     .     .       .                 .I E L R .     .     .     .     .
     12500.  C     .     .       .                 . I E LR .     .     .     .     .
     12600.  C     .     .       .                 . I E L R .     .     .     .     .
     12700.  C     .     .       .                  . I E LR .     .     .     .     .
     12800.  C     .     .       .                  . I WELR .     .     .     .     .
     12900.  C     .     .       .                   . I E LR.     .     .     .     .
     13000.  C     .     .       .                   . I WELR.     .     .     .     .
     13100.  C     .     .       .                    . I E L.     .     .     .     .
     13200.  C     .     .       .                    . I  ELR     .     .     .     .
2.51 13300.  C     .     .       .                     . I WEL     .     .     .     .
     13400.  C     .     .       .                      . I ERL    .     .     .     .
     13500.  C     .     .       .                      . I  EL    .     .     .     .
     13600.  C     .     .       .                       . I ERL   .     .     .     .
     13700.  C     .     .       .                        . I.ERL  .     .     .     .
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        13800.  C      .      .      .      .      .      I ERL  .      .      .      .
        13900.  C      .      .      .      .      .      I ERL  .      .      .      .
        14000.  C      .      .      .      .      .      .I E L .      .      .      .
        14100.  C      .      .      .      .      .      .I ERL .      .      .      .
    2.68 14200.  C      .      .      .      .      .      . I E L .      .      .      .
```


THIS RUN EXECUTED 11/12/87 10:28:57

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 14-EAST WA

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	1122.00	1415.13	4965.00	4980.00	5020.00	5063.04	.00	98.04	5.13	1410.00	56.71	5.74
	.085	1122.00	1416.93	4963.04	4970.00	5140.00	5153.91	1.90	190.87	4.43	1412.50	18.39	2.45
	.307	1110.00	1419.66	4963.89	4960.00	5125.00	5120.63	2.73	156.74	3.16	1416.50	31.34	2.97
	.572	1105.00	1426.25	4921.75	4840.00	5060.00	5041.21	6.59	119.46	4.25	1422.00	82.37	4.41
	.799	1100.00	1434.03	4964.83	4955.00	5090.00	5060.50	7.78	95.66	6.03	1428.00	51.93	4.18
	1.083	1090.00	1444.93	4970.34	4955.00	5055.00	5061.99	10.90	91.64	3.93	1441.00	112.76	5.52
	1.348	1085.00	1457.48	4960.88	4920.00	5060.00	5050.57	12.55	89.69	5.48	1452.00	71.45	4.69
	1.604	1079.00	1466.80	4962.44	4965.00	5045.00	5052.12	9.31	89.69	4.80	1462.00	66.78	4.81
*	1.765	808.00	1477.41	4979.69	4900.00	5090.00	5037.24	6.29	57.55	5.41	1472.00	82.68	5.18
	1.869	805.00	1482.09	4972.14	4935.00	5060.00	5026.98	4.68	54.84	4.59	1477.50	88.40	5.39
	1.979	805.00	1488.38	4978.08	4960.00	5035.00	5037.88	6.29	59.80	4.38	1484.00	140.87	6.12
	2.104	795.00	1494.95	4943.13	4930.00	5080.00	5061.62	6.57	118.49	2.95	1492.00	65.93	3.63
	2.275	785.00	1502.59	4944.44	4840.00	5050.00	5026.47	7.64	82.03	2.59	1500.00	118.20	4.97
	2.508	775.00	1516.65	4970.95	4950.00	5055.00	5031.96	14.07	61.01	4.65	1512.00	111.52	5.47
	2.678	768.00	1527.40	4965.90	4940.00	5040.00	5033.96	10.75	68.07	3.40	1524.00	128.17	5.44

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 1.765 PROFILE= 1 INTERPOLATED XSECTIONS USED

1

11/12/87 10:29:00 PAGE 1

THIS RUN EXECUTED 11/12/87 10:29:01

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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INPUT FILE: CAP15EST

OUTPUT FILE: CAP15EST.OUT

THIS RUN EXECUTED 11/11/87 10:49:45

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 CAP OVERCHUTE 15-EAST WASH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	1079.	1466.890	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

Below confluence : 14 East

NC	.070	.070	.050	.300	.500	.000	.000	.000	.000	.000
X1	.000	5.000	4965.000	5045.000	.000	.000	.000	.000	.000	.000
X2	1079.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1480.000	4920.000	1466.000	4965.000	1462.000	5000.000	1466.000	5045.000	1480.000	5170.000

Above confluence - Z 14 East

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	.180	5.000	4935.000	5035.000	950.000	950.000	950.000	.000	.000	.000
X2	379.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1480.000	4935.000	1472.000	4965.000	1470.000	5000.000	1472.000	5015.000	1480.000	5035.000
X1	.265	5.000	4865.000	5055.000	450.000	450.000	450.000	.000	.000	.000
X2	375.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1496.000	4865.000	1476.000	4980.000	1476.000	5015.000	1492.000	5055.000	1496.000	5155.000
X1	.375	4.000	4950.000	5060.000	580.000	580.000	580.000	.000	.000	.000
X2	375.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1496.000	4950.000	1480.000	4980.000	1480.000	5020.000	1496.000	5060.000	.000	.000
X1	.451	4.000	4920.000	5035.000	400.000	400.000	400.000	.000	.000	.000
X2	375.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1500.000	4920.000	1484.000	4970.000	1484.000	5000.000	1500.000	5035.000	.000	.000

1

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 X1       .500      3.000   4960.000   5070.000    680.000    680.000    680.000       .000       .000       .000
 X2    375.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1500.000   4960.000   1490.000   5000.000   1500.000   5070.000       .000       .000       .000       .000

 X1       .709      4.000   4885.000   5095.000    680.000    680.000    680.000       .000       .000       .000
 X2    375.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1516.000   4885.000   1500.000   4985.000   1500.000   5020.000   1512.000   5095.000       .000       .000

 X1       .822      4.000   4900.000   5120.000    600.000    600.000    600.000       .000       .000       .000
 X2    372.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1520.000   4900.000   1504.000   4985.000   1504.000   5010.000   1516.000   5120.000       .000       .000
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OVERCHUTE

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 X1       .941      4.000   4950.000   5050.000    630.000    630.000    630.000       .000       .000       .000
 X2    372.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1520.000   4950.000   1512.000   4985.000   1512.000   5000.000   1520.000   5050.000       .000       .000
 EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .300 CEHV=    .500
 *SECNO  .000
      .00     4.89  1466.89      .00  1466.89  1467.22      .33      .00      .00  1466.00
    1079.       1.    1074.       3.       1.     231.       4.       0.       0.   1466.00
      .00      .93     4.65      .95     .070     .050     .070     .000  1462.00  4962.14
  .005979       0.       0.       0.        0        0        0      .00    90.81  5052.95
0
 CCHV=    .100 CEHV=    .300
 *SECNO  .180
      .18     2.97  1472.97      .00      .00  1473.19      .22     5.95      .01  1480.00
     379.       0.     379.       0.       0.     102.       0.       4.       2.   1480.00
      .07      .00     3.73      .00     .070     .050     .070     .000  1470.00  4961.35
  .007202     950.     950.     950.        3        0        0      .00    56.09  5017.44
0
 *SECNO  .265
      .26     1.72  1477.72      .00      .00  1478.14      .42     4.89      .06  1496.00
     375.       0.     375.       0.       0.      72.       0.       5.       2.   1492.00
      .09      .00     5.18      .00     .070     .050     .070     .000  1476.00  4970.11
  .018357     450.     450.     450.        4        0        0      .00    49.19  5019.30
0
 *SECNO  .375
      .38     2.51  1482.51      .00      .00  1482.68      .17     4.52      .02  1496.00
     375.       0.     375.       0.       0.     114.       0.       6.       3.   1496.00
      .14      .00     3.28      .00     .070     .050     .070     .000  1480.00  4975.29
  .004285     580.     580.     580.        3        0        0      .00    50.38  5026.28
0
 *SECNO  .451
      .45     1.70  1485.70      .00      .00  1486.33      .63     3.51      .14  1500.00
     375.       0.     375.       0.       0.      59.       0.       7.       3.   1500.00
      .16      .00     6.36      .00     .070     .050     .070     .000  1484.00  4964.67
  .027061     400.     400.     400.        2        0        0      .00    39.07  5003.73
0
 *SECNO  .500
      .58     4.18  1494.18      .00      .00  1494.42      .24     8.05      .04  1500.00
     375.       0.     375.       0.       0.      96.       0.       8.       4.   1500.00
      .21      .00     3.90      .00     .070     .050     .070     .000  1490.00  4983.28
  .006606     680.     680.     680.        6        0        0      .00    45.98  5029.26
```

```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COBAR    TOPWID     ENDST


 *SECNO  .709
      .71     1.58  1501.59      .00      .00  1502.01      .43     7.53      .06  1516.00
     375.       0.     375.       0.       0.      71.       0.       9.       5.   1512.00
      .25      .00     5.27      .00     .070     .050     .070     .000  1500.00  4975.09
  .022283     680.     680.     680.        4        0        0      .00    54.82  5029.91
0
 *SECNO  .822
      .82     2.79  1506.79      .00      .00  1506.92      .14     4.99      .03  1520.00
     372.       0.     372.       0.       0.     126.       0.      10.       6.   1516.00
      .30      .00     2.96      .00     .070     .050     .070     .000  1504.00  4970.20
  .004162     600.     600.     600.        5        0        0      .00    65.34  5035.54
0
 *SECNO  .941

 1645 INT SEC ADDED BY RAISING SEC      .94,  -4.000FT AND MULTIPLYING BY   1.258


 3301 HV CHANGED MORE THAN HVINS

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.01     1.83  1509.83  1509.83      .00  1510.49      .66     2.88      .16  1516.00
     372.       0.     372.       0.       0.      57.       0.      11.       6.   1516.00
      .32      .00     6.54      .00     .070     .050     .070     .000  1508.00  4983.95
  .033969     315.     315.     315.        3       14        0      .00    43.31  5027.27
0

 1645 INT SEC ADDED BY RAISING SEC     1.01,   4.000FT AND MULTIPLYING BY    .795

      .94     2.93  1514.93      .00      .00  1515.20      .27     4.66      .04  1520.00
     372.       0.     372.       0.       0.      89.       0.      12.       6.   1520.00
      .34      .00     4.16      .00     .070     .050     .070     .000  1512.00  4972.20
  .008244     315.     315.     315.        4        0        0      .00    46.09  5018.29
0
1
 PROFILE FOR STREAM  CAP OVERCHUTE 15-EAST WA


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1460.     1470.     1480.     1490.     1500.     1510.     1520.     1530.     1540.     1550.
    SECNO   CUMDIS

      .00      0.  C I   LE .        M        .        .        .        .        .        .        .        .
           100.  C  I   LE .        M        .        .        .        .        .        .        .        .
           200.  C   I   EL.        M        .        .        .        .        .        .        .        .
           300.  C    I   EL        M        .        .        .        .        .        .        .        .
           400.  C    I   WE L      M        .        .        .        .        .        .        .        .
           500.  C     I   E  L     M        .        .        .        .        .        .        .        .
           600.  C      I  .E   L   M        .        .        .        .        .        .        .        .
           700.  C       I .WE   L  M        .        .        .        .        .        .        .        .
           800.  C        I. E     L M        .        .        .        .        .        .        .        .
           900.  C         I  E     LM        .        .        .        .        .        .        .        .
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```
 .18 1000. C        I E     C        .        .        .        .        .        .        .        .
     1100. C       .I  E    .  RL    .        .        .        .        .        .        .        .
     1200. C       .  I E   .    R L .        .        .        .        .        .        .        .
     1300. C       .  I E   .      R .L       .        .        .        .        .        .        .
 .26 1400. C       .    I E .        . R  L   .        .        .        .        .        .        .
     1500. C       .    I E.         . R  L   .        .        .        .        .        .        .
     1600. C       .    I WE         . R  L   .        .        .        .        .        .        .
     1700. C       .     I E         .  R L   .        .        .        .        .        .        .
     1800. C       .      I.E        .   RL   .        .        .        .        .        .        .
     1900. C       .      I. E       .   RL   .        .        .        .        .        .        .
 .38 2000. C       .       I  E      .    L   .        .        .        .        .        .        .
     2100. C       .       .I WE     .     L  .        .        .        .        .        .        .
     2200. C       .       . I WE    .      L .        .        .        .        .        .        .
     2300. C       .       .  I E    .       L.        .        .        .        .        .        .
 .45 2400. C       .       .   I E   .        L        .        .        .        .        .        .
     2500. C       .       .    I WE .        L        .        .        .        .        .        .
     2600. C       .       .     I WE.        L        .        .        .        .        .        .
     2700. C       .       .      I WE        L        .        .        .        .        .        .
     2800. C       .       .       I .E       L        .        .        .        .        .        .
     2900. C       .       .       I . E      L        .        .        .        .        .        .
     3000. C       .       .        I. E      L        .        .        .        .        .        .
 .58 3100. C       .       .         I  E     L        .        .        .        .        .        .
     3200. C       .       .        .I  WE  . L        .        .        .        .        .        .
     3300. C       .       .        . I  WE .  RL      .        .        .        .        .        .
     3400. C       .       .        .  I  WE .   R L   .        .        .        .        .        .
     3500. C       .       .        .   I  E.     R L. .        .        .        .        .        .
     3600. C       .       .        .    I  E       R. L        .        .        .        .        .
     3700. C       .       .        .      I.E       .R  L       .        .        .        .        .
 .71 3800. C       .       .        .       I E      . R  L      .        .        .        .        .
     3900. C       .       .        .       .IWE     .  R  L     .        .        .        .        .
     4000. C       .       .        .       .I WE    .  R  L     .        .        .        .        .
     4100. C       .       .        .       . I E    .   R  L    .        .        .        .        .
     4200. C       .       .        .       .  I E   .    R  L.  .        .        .        .        .
     4300. C       .       .        .       .  I  E  .    R  L.  .        .        .        .        .
 .82 4400. C       .       .        .       .   I  E .     R  L  .        .        .        .        .
     4500. C       .       .        .       .    I  E.     R L.  .        .        .        .        .
     4600. C       .       .        .       .     I E.     RL    .        .        .        .        .
1.01 4700. .       .       .        .       .      I E     L     .        .        .        .        .
     4800. C       .       .        .       .       I.WE   L      .        .        .        .        .
     4900. C       .       .        .       .        .I E    L.   .        .        .        .        .
 .34 5000. C       .       .        .       .        . I  E   L   .        .        .        .        .
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THIS RUN EXECUTED 11/11/87 10:50:05

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 15-EAST WA

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH

	.000	1073.00	1466.83	4966.14	4965.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	.180	379.00	1472.97	4961.35	4935.00	5035.00	5017.44	6.00	56.09	2.97	1470.00	72.02	3.73
	.265	375.00	1477.72	4970.11	4865.00	5055.00	5019.30	4.75	49.19	1.72	1476.00	183.57	5.18
	.375	375.00	1482.51	4975.29	4950.00	5060.00	5026.28	4.79	50.98	2.51	1480.00	42.85	3.28
	.451	375.00	1485.70	4964.67	4920.00	5035.00	5003.73	3.19	39.07	1.70	1484.00	270.61	6.36
	.590	375.00	1494.18	4983.28	4960.00	5070.00	5029.26	8.48	45.99	4.18	1490.00	66.06	3.90
	.709	375.00	1501.58	4975.09	4885.00	5095.00	5029.91	7.40	54.82	1.58	1500.00	222.83	5.27
	.822	372.00	1506.79	4970.20	4900.00	5120.00	5035.54	5.21	65.34	2.79	1504.00	41.62	2.96
*	.941	372.00	1514.93	4972.20	4950.00	5050.00	5018.29	5.10	46.09	2.93	1512.00	82.44	4.16

1

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .941 PROFILE= 1 INTERPOLATED XSECTIONS USED

1

THIS RUN EXECUTED 11/11/87 10:50:08

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
**************************************************
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INPUT FILE: CAP16EST

OUTPUT FILE: CAP16EST.OUT

THIS RUN EXECUTED 05/05/88 13:11:26

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR EVENT.  16TH PIPE OVERCHUTE EAST OF GRAND AVENUE.
T3      CAP FLOODPLAIN-#16 EAST

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       0.       0.       0.   .005400      .00       .5    3480.  1311.000     .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

   -1.000     .000     .000     .000     .000     .000     .000     .000     .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   38.000   43.000    1.000   53.000   54.000   51.000    4.000   39.000    8.000   42.000


    5.000   26.000     .000     .000     .000     .000     .000     .000     .000     .000


NC      .070     .070     .050     .100     .300     .000     .000     .000     .000     .000
X1      .000   12.000 4965.000 5020.000     .000     .000     .000     .000     .000     .000
GR  1321.000 3800.000 1316.000 4000.000 1312.000 4340.000 1312.000 4565.000 1308.000 4965.000
GR  1304.000 4980.000 1303.500 5000.000 1304.000 5010.000 1308.000 5020.000 1312.000 5085.000
GR  1315.500 5335.000 1316.000 6465.000     .000     .000     .000     .000     .000     .000
```

ABOVE Confluence of McMicken Outlet Ditch

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X1      .169    9.000 4920.000 5135.000  845.000  955.000  890.000     .000     .000     .000
GR  1325.000 4750.000 1324.000 4920.000 1320.000 4850.000 1316.000 4885.000 1312.000 4920.000
GR  1309.000 5000.000 1312.000 5135.000 1316.000 5310.000 1320.000 5815.000     .000     .000

X1      .345   14.000 4970.000 5040.000  990.000  770.000  930.000     .000     .000     .000
X2 3719.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1329.000 4410.000 1328.000 4550.000 1324.000 4640.000 1320.000 4880.000 1316.000 4970.000
GR  1315.000 5000.000 1316.000 5040.000 1320.000 5060.000 1320.500 5090.000 1320.000 5135.000
GR  1319.000 5210.000 1320.000 5310.000 1324.000 5975.000 1326.000 6035.000     .000     .000

    .541   12.000 4970.000 5020.000  940.000 1045.000 1035.000     .000     .000     .000
GR  1330.000 4470.000 1328.000 4640.000 1324.000 4740.000 1324.000 4770.000 1325.000 4970.000
GR  1324.000 4970.000 1320.000 4985.000 1320.000 5000.000 1320.000 5020.000 1324.000 5085.000
GR  1328.000 5110.000 1330.000 5185.000     .000     .000     .000     .000     .000     .000
1
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X1	.673	14.000	4950.000	5020.000	690.000	710.000	700.000	.000	.000	.000
X2	3958.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1340.000	4210.000	1336.000	4290.000	1332.000	4385.000	1331.000	4480.000	1332.000	4670.000
GR	1332.500	4735.000	1332.000	4800.000	1328.000	4950.000	1324.000	4970.000	1323.000	5000.000
GR	1324.000	5020.000	1328.000	5325.000	1332.000	5710.000	1336.000	6000.000	.000	.000
[illegible]	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	.829	13.000	4950.000	5030.000	810.000	830.000	820.000	.000	.000	.000
GR	1340.000	4415.000	1336.000	4635.000	1337.000	4735.000	1336.000	4835.000	1332.000	4950.000
GR	1328.000	4970.000	1327.000	5000.000	1328.000	5020.000	1332.000	5030.000	1336.000	5240.000
GR	1335.000	5300.000	1336.000	5400.000	1338.000	5470.000	.000	.000	.000	.000
X1	.946	7.000	4950.000	5050.000	660.000	545.000	620.000	.000	.000	.000
X2	4197.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1342.000	4950.000	1336.000	4970.000	1332.000	4985.000	1330.000	5000.000	1332.000	5015.000
GR	1336.000	5030.000	1342.000	5050.000	.000	.000	.000	.000	.000	.000
X1	.952	7.000	4950.000	5050.000	30.000	30.000	30.000	.000	.000	.000
X2	4535.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1342.000	4950.000	1336.000	4970.000	1332.000	4985.000	1330.000	5000.000	1332.000	5015.000
GR	1336.000	5030.000	1342.000	5050.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1.040	12.000	4960.000	5030.000	490.000	445.000	465.000	.000	.000	.000
GR	1348.000	4210.000	1344.000	4360.000	1340.000	4680.000	1336.000	4960.000	1333.000	5000.000
GR	1336.000	5015.000	1340.000	5030.000	1344.000	5080.000	1344.000	5090.000	1341.000	5430.000
GR	1344.000	6030.000	1348.000	6180.000	.000	.000	.000	.000	.000	.000
	N. of BARDSLEY PANA!									
X1	1.165	11.000	4945.000	5025.000	635.000	695.000	660.000	.000	.000	.000
X2	4217.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1349.000	4795.000	1348.000	4850.000	1344.000	4900.000	1340.000	4945.000	1336.500	5000.000
GR	1340.000	5025.000	1344.000	5055.000	1347.500	5315.000	1347.000	5695.000	1348.000	5840.000
[illegible]	1350.000	6020.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.239	11.000	4955.000	5020.000	345.000	405.000	390.000	.000	.000	.000
GR	1354.000	4830.000	1352.000	4870.000	1348.000	4910.000	1344.000	4955.000	1340.000	4985.000
GR	1339.000	5000.000	1340.000	5020.000	1344.000	5160.000	1348.000	5210.000	1352.000	5460.000
GR	1354.000	5640.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.326	10.000	4970.000	5060.000	500.000	410.000	460.000	.000	.000	.000
GR	1360.000	4635.000	1356.000	4850.000	1352.000	4910.000	1348.000	4945.000	1344.000	4970.000
GR	1342.500	5000.000	1344.000	5060.000	1348.000	5140.000	1352.000	5260.000	1354.000	5500.000
X1	1.408	15.000	4955.000	5025.000	370.000	390.000	435.000	.000	.000	.000
X2	3898.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1364.000	4350.000	1360.000	4400.000	1356.000	4430.000	1356.000	4455.000	1359.000	4490.000
GR	1356.000	4530.000	1356.000	4580.000	1358.000	4635.000	1356.000	4700.000	1352.000	4725.000
GR	1350.000	4825.000	1348.000	4955.000	1346.000	5000.000	1348.000	5025.000	1352.000	5070.000

1

All files canceled by operator

THIS RUN EXECUTED 05/05/88 13:16:55

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR EVENT.  16TH PIPE OVERCHUTE EAST OF GRAND AVENUE.
T3      CAP FLOODPLAIN-#16 EAST

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        0.        0.        0.   .005400      .00       .5     3480.  1311.000     .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLOC     IBW       CHNIM     ITRACE

    -1.000     .000      .000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    36.000    43.000     1.000    53.000    21.000    22.000    54.000    51.000     4.000     8.000


    42.000     5.000    26.000      .000      .000      .000      .000      .000      .000      .000


NC      .070      .070      .050      .100      .300      .000      .000      .000      .000      .000
X1      .000     12.000  4965.000  5020.000      .000      .000      .000      .000      .000      .000
GR   1321.000  3800.000  1316.000  4000.000  1312.000  4340.000  1312.000  4565.000  1308.000  4965.000
GR   1304.000  4980.000  1303.500  5000.000  1304.000  5010.000  1308.000  5020.000  1312.000  5085.000
GR   1315.500  5335.000  1316.000  6465.000      .000      .000      .000      .000      .000      .000

X1      .169     9.000  4920.000  5135.000   845.000   955.000   890.000      .000      .000      .000
GR   1325.000  4750.000  1324.000  4820.000  1320.000  4850.000  1316.000  4885.000  1312.000  4920.000
GR   1309.000  5000.000  1312.000  5135.000  1316.000  5310.000  1320.000  5815.000      .000      .000

X1      .345    14.000  4970.000  5040.000   990.000   770.000   930.000      .000      .000      .000
X2   3719.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1329.000  4410.000  1328.000  4550.000  1324.000  4640.000  1320.000  4890.000  1316.000  4970.000
GR   1315.000  5000.000  1316.000  5040.000  1320.000  5060.000  1320.500  5090.000  1320.000  5135.000
GR   1319.000  5210.000  1320.000  5310.000  1324.000  5975.000  1326.000  6035.000      .000      .000

X1      .541    12.000  4970.000  5020.000   940.000  1045.000  1035.000      .000      .000      .000
GR   1330.000  4470.000  1328.000  4640.000  1324.000  4740.000  1324.000  4770.000  1325.000  4870.000
GR   1324.000  4970.000  1320.000  4985.000  1320.000  5000.000  1320.000  5020.000  1324.000  5085.000
GR   1328.000  5110.000  1330.000  5185.000      .000      .000      .000      .000      .000      .000
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X2	3958.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1340.000	4210.000	1336.000	4290.000	1332.000	4385.000	1331.000	4480.000	1332.000	4670.000
GR	1332.500	4735.000	1332.000	4800.000	1328.000	4950.000	1324.000	4970.000	1323.000	5000.000
GR	1324.000	5020.000	1328.000	5325.000	1332.000	5710.000	1336.000	6000.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	.829	13.000	4950.000	5030.000	810.000	830.000	820.000	.000	.000	.000
GR	1340.000	4415.000	1336.000	4635.000	1337.000	4735.000	1336.000	4835.000	1332.000	4950.000
GR	1328.000	4970.000	1327.000	5000.000	1328.000	5020.000	1332.000	5030.000	1336.000	5240.000
GR	1335.000	5300.000	1336.000	5400.000	1338.000	5470.000	.000	.000	.000	.000
X1	.946	7.000	4950.000	5050.000	660.000	545.000	620.000	.000	.000	.000
X2	4197.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1342.000	4950.000	1336.000	4970.000	1332.000	4985.000	1330.000	5000.000	1332.000	5015.000
GR	1336.000	5030.000	1342.000	5050.000	.000	.000	.000	.000	.000	.000
X1	.952	7.000	4950.000	5050.000	30.000	30.000	30.000	.000	.000	.000
X2	4535.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1342.000	4950.000	1336.000	4970.000	1332.000	4985.000	1330.000	5000.000	1332.000	5015.000
GR	1336.000	5030.000	1342.000	5050.000	.000	.000	.000	.000	.000	.000
	JomAX									
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1.040	12.000	4960.000	5030.000	490.000	445.000	465.000	.000	.000	.000
GR	1348.000	4210.000	1344.000	4360.000	1340.000	4680.000	1336.000	4960.000	1333.000	5000.000
GR	1336.000	5015.000	1340.000	5030.000	1344.000	5080.000	1344.000	5090.000	1341.000	5430.000
GR	1344.000	6030.000	1348.000	6180.000	.000	.000	.000	.000	.000	.000
X1	1.165	11.000	4945.000	5025.000	635.000	695.000	660.000	.000	.000	.000
X2	4217.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1349.000	4795.000	1348.000	4850.000	1344.000	4900.000	1340.000	4945.000	1336.500	5000.000
GR	1340.000	5025.000	1344.000	5055.000	1347.500	5315.000	1347.000	5695.000	1348.000	5840.000
GR	1350.000	6020.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.239	11.000	4955.000	5020.000	345.000	405.000	390.000	.000	.000	.000
GR	1354.000	4830.000	1352.000	4870.000	1348.000	4910.000	1344.000	4955.000	1340.000	4985.000
GR	1339.000	5000.000	1340.000	5020.000	1344.000	5160.000	1348.000	5210.000	1352.000	5460.000
GR	1354.000	5640.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.326	10.000	4970.000	5060.000	500.000	410.000	460.000	.000	.000	.000
GR	1360.000	4635.000	1356.000	4850.000	1352.000	4910.000	1348.000	4945.000	1344.000	4970.000
GR	1342.500	5000.000	1344.000	5060.000	1348.000	5140.000	1352.000	5260.000	1354.000	5500.000
X1	1.408	15.000	4955.000	5025.000	370.000	330.000	435.000	.000	.000	.000
X2	3898.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1364.000	4350.000	1360.000	4400.000	1356.000	4430.000	1356.000	4455.000	1359.000	4490.000
GR	1356.000	4530.000	1356.000	4580.000	1358.000	4635.000	1356.000	4700.000	1352.000	4725.000
GR	1350.000	4825.000	1348.000	4955.000	1346.000	5000.000	1348.000	5025.000	1352.000	5070.000

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X1	1.508	15.000	4960.000	5035.000	450.000	500.000	525.000	.000	.000	.000
X2	3405.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1367.000	4600.000	1364.000	4875.000	1360.000	4925.000	1356.000	4960.000	1352.000	4980.000
GR	1348.500	5000.000	1352.000	5035.000	1352.000	5150.000	1350.000	5160.000	1352.000	5190.000
GR	1353.000	5200.000	1352.000	5230.000	1350.000	5385.000	1352.000	5520.000	1356.000	5540.000
X1	1.659	20.000	4965.000	5030.000	800.000	820.000	800.000	.000	.000	.000
X2	2912.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1371.000	4730.000	1368.000	4870.000	1364.000	4950.000	1360.000	4965.000	1356.000	4975.000
GR	1353.500	5000.000	1356.000	5030.000	1360.000	5145.000	1362.000	5170.000	1360.000	5215.000
GR	1360.000	5260.000	1358.000	5320.000	1360.000	5390.000	1361.000	5415.000	1360.000	5440.000
GR	1356.000	5480.000	1355.000	5500.000	1356.000	5540.000	1360.000	5630.000	1364.000	5680.000

GR	1366.500	4440.000	1364.000	4650.000	1362.000	4680.000	1364.000	4730.000	1366.000	4870.000
GR	1364.000	4935.000	1360.000	4990.000	1358.000	5000.000	1390.000	5030.000	1364.000	5180.000
GR	1368.000	5275.000	1367.000	5325.000	1368.000	5370.000	1370.000	5435.000	.000	.000
X1	1.912	18.000	4990.000	5020.000	490.000	570.000	685.000	.000	.000	.000
X2	2704.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1375.000	4720.000	1372.000	4750.000	1368.000	4790.000	1364.000	4990.000	1362.000	5000.000
GR	1364.000	5020.000	1368.000	5085.000	1368.000	5125.000	1368.000	5185.000	1370.000	5285.000
GR	1368.000	5360.000	1365.500	5470.000	1367.000	5520.000	1366.000	5545.000	1368.000	5600.000
GR	1368.000	5650.000	1372.000	5720.000	1374.000	5860.000	.000	.000	.000	.000

Dynamate Blvd.

X1	2.139	9.000	4970.000	5030.000	1140.000	1125.000	1200.000	.000	.000	.000
GR	1378.500	4884.000	1378.000	4885.000	1376.000	4970.000	1374.000	5000.000	1376.000	5030.000
GR	1377.000	5110.000	1376.500	5300.000	1380.000	5470.000	1384.000	5775.000	.000	.000
X1	2.289	11.000	4960.000	5020.000	850.000	765.000	790.000	.000	.000	.000
GR	1389.000	4880.000	1384.000	4925.000	1380.000	4960.000	1378.500	5000.000	1380.000	5020.000
GR	1384.000	5420.000	1383.000	5500.000	1384.000	5590.000	1384.000	5700.000	1388.000	5800.000
GR	1390.000	5910.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.478	14.000	4970.000	5020.000	1020.000	965.000	1000.000	.000	.000	.000
GR	1399.000	4400.000	1396.000	4450.000	1392.000	4580.000	1392.000	4630.000	1392.000	4700.000
GR	1390.000	4890.000	1388.000	4970.000	1386.500	5000.000	1388.000	5020.000	1391.000	5065.000
GR	1387.000	5225.000	1392.000	5490.000	1396.000	5530.000	1398.000	5650.000	.000	.000

131st AVE (EXTENDED)

X1	2.666	11.000	4950.000	5030.000	955.000	990.000	990.000	.000	.000	.000
X2	2495.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1401.000	4600.000	1400.000	4780.000	1399.000	4900.000	1396.000	4950.000	1393.000	5000.000
GR	1396.000	5030.000	1397.000	5115.000	1397.000	5385.000	1399.000	5480.000	1400.000	5600.000
GR	1402.000	5680.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.090	.090	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.789	7.000	4970.000	5020.000	735.000	690.000	700.000	.000	.000	.000
GR	1403.900	4930.000	1400.000	4970.000	1399.500	5000.000	1400.000	5020.000	1403.000	5075.000
GR	1402.000	5370.000	1404.000	5475.000	.000	.000	.000	.000	.000	.000

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X1	2.943	14.000	4980.000	5015.000	770.000	760.000	765.000	.000	.000	.000
X2	2286.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1414.000	4730.000	1412.000	4780.000	1408.000	4940.000	1404.000	4980.000	1404.000	5000.000
GR	1404.000	5015.000	1408.000	5095.000	1412.000	5125.000	1412.000	5160.000	1408.000	5200.000
GR	1406.000	5225.000	1408.000	5250.000	1412.000	5270.000	1414.000	5300.000	.000	.000
X1	3.111	6.000	4995.000	5020.000	870.000	840.000	885.000	.000	.000	.000
GR	1416.500	4810.000	1412.000	4985.000	1411.000	5000.000	1412.000	5010.000	1416.000	5020.000
GR	1419.000	5060.000	.000	.000	.000	.000	.000	.000	.000	.000

Dixileta Blvd.

X1	3.277	15.000	4980.000	5010.000	840.000	855.000	880.000	.000	.000	.000
GR	1430.000	4800.000	1428.000	4850.000	1424.000	4940.000	1420.000	4980.000	1419.000	5000.000
GR	1420.000	5010.000	1423.000	5065.000	1420.000	5115.000	1424.000	5150.000	1428.000	5190.000
GR	1432.000	5225.000	1428.000	5280.000	1426.000	5380.000	1428.000	5420.000	1432.000	5490.000
X1	3.406	15.000	4950.000	5250.000	670.000	670.000	680.000	.000	.000	.000
X2	2078.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1440.000	4585.000	1436.000	4850.000	1432.000	4930.000	1428.000	4950.000	1426.500	5000.000
GR	1428.000	5055.000	1432.000	5100.000	1435.000	5160.000	1432.000	5180.000	1428.000	5220.000
GR	1426.000	5250.000	1428.000	5275.000	1432.000	5300.000	1436.000	5420.000	1438.000	5550.000
NC	.090	.090	.050	.000	.000	.000	.000	.000	.000	.000
X1	3.558	9.000	4925.000	5040.000	710.000	550.000	800.000	.000	.000	.000
X2	1657.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1440.500	4650.000	1440.000	4680.000	1436.000	4725.000	1435.000	4925.000	1434.000	5000.000

X1	3.669	8.000	4950.000	5030.000	520.000	595.000	585.000	.000	.000	.000
GR	1447.000	4740.000	1444.000	4815.000	1440.000	4950.000	1438.000	5000.000	1440.000	5030.000
GR	1444.000	5055.000	1446.000	5100.000	1448.000	5400.000	.000	.000	.000	.000
X1	3.752	8.000	4970.000	5045.000	430.000	440.000	440.000	.000	.000	.000
GR	1451.000	4870.000	1448.000	4945.000	1444.000	4970.000	1440.500	5000.000	1444.000	5045.000
GR	1448.000	5125.000	1452.000	5360.000	1453.000	5440.000	.000	.000	.000	.000
X1	3.809	8.000	4915.000	5040.000	260.000	280.000	300.000	.000	.000	.000
GR	1465.000	4850.000	1460.000	4915.000	1444.000	4980.000	1444.000	5000.000	1444.000	5010.000
GR	1448.000	5040.000	1460.000	5075.000	1471.000	5170.000	.000	.000	.000	.000
X1	3.932	8.000	4970.000	5015.000	610.000	600.000	650.000	.000	.000	.000
GR	1466.000	4750.000	1460.000	4865.000	1452.000	4970.000	1451.000	5000.000	1452.000	5015.000
GR	1456.000	5100.000	1460.000	5255.000	1462.000	5355.000	.000	.000	.000	.000
X1	4.033	8.000	4975.000	5020.000	525.000	530.000	535.000	.000	.000	.000
GR	1463.000	4880.000	1460.000	4940.000	1456.000	4975.000	1455.000	5000.000	1456.000	5020.000
GR	1460.000	5040.000	1464.000	5080.000	1466.000	5310.000	.000	.000	.000	.000
	LITCHFIELD'									
X1	4.157	9.000	4955.000	5030.000	675.000	630.000	655.000	.000	.000	.000
X2	1654.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1474.000	4700.000	1472.000	4825.000	1468.000	4925.000	1464.000	4955.000	1461.000	5000.000
GR	1464.000	5030.000	1468.000	5060.000	1472.000	5115.000	1474.000	5285.000	.000	.000

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X1	4.290	8.000	4975.000	5035.000	725.000	665.000	700.000	.000	.000	.000
GR	1480.000	4675.000	1479.000	4850.000	1476.000	4940.000	1468.000	4975.000	1466.000	5000.000
GR	1468.000	5035.000	1476.000	5080.000	1479.000	5250.000	.000	.000	.000	.000
X1	4.428	8.000	4950.000	5010.000	720.000	720.000	730.000	.000	.000	.000
GR	1492.000	4700.000	1488.000	4880.000	1476.000	4950.000	1472.000	5000.000	1476.000	5010.000
GR	1484.000	5050.000	1488.000	5130.000	1488.500	5160.000	.000	.000	.000	.000
X1	4.549	7.000	4975.000	5010.000	600.000	700.000	640.000	.000	.000	.000
GR	1496.000	4850.000	1492.000	4900.000	1480.000	4975.000	1479.500	5000.000	1480.000	5010.000
GR	1492.000	5040.000	1496.000	5370.000	.000	.000	.000	.000	.000	.000
X1	4.716	8.000	4950.000	5020.000	750.000	740.000	880.000	.000	.000	.000
GR	1503.000	4850.000	1500.000	4900.000	1492.000	4950.000	1490.000	5000.000	1492.000	5020.000
GR	1500.000	5080.000	1504.000	5110.000	1506.000	5230.000	.000	.000	.000	.000
X1	4.837	9.000	4980.000	5010.000	685.000	600.000	640.000	.000	.000	.000
GR	1513.000	4750.000	1512.000	4790.000	1508.000	4830.000	1500.000	4910.000	1496.000	4980.000
GR	1496.000	5000.000	1496.000	5010.000	1500.000	5030.000	1512.000	5060.000	.000	.000
X1	4.915	8.000	4970.000	5020.000	450.000	350.000	410.000	.000	.000	.000
X2	1650.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1519.000	4930.000	1516.000	4950.000	1500.000	4970.000	1499.000	5000.000	1500.000	5020.000
GR	1512.000	5065.000	1516.000	5165.000	1517.000	5220.000	.000	.000	.000	.000
X1	4.998	8.000	4910.000	5050.000	370.000	285.000	440.000	.000	.000	.000
GR	1528.000	4620.000	1524.000	4700.000	1520.000	4760.000	1512.000	4800.000	1508.000	4910.000
GR	1504.000	5000.000	1520.000	5050.000	1521.000	5085.000	.000	.000	.000	.000
	OVER CHUTE									
X1	5.044	10.000	4940.000	5040.000	190.000	360.000	240.000	.000	.000	.000
GR	1528.000	4750.000	1524.000	4800.000	1520.000	4940.000	1509.000	4985.000	1507.000	5000.000
GR	1508.000	5040.000	1512.000	5100.000	1520.000	5125.000	1528.000	5170.000	1528.500	5220.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     7.46  1310.36      .00  1311.00  1311.55      .59      .00      .00  1308.00
    3480.      883.    2454.     143.     438.     340.      71.       0.       0.  1308.00
      .00     2.02     7.21     2.01     .070     .050     .070     .000  1303.50  4669.00
  .005347       0.       0.       0.        0        0        4      .00   399.10  5068.10
0
 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1310.36

 STA=    4669.    4965.    5020.    5068.
   PER Q=     25.4     70.5      4.1
   AREA=    438.1    340.3     71.2
    VEL=      2.0      7.2      2.0

 *SECNO  .169
      .17     5.52  1314.52      .00      .00  1314.73      .21     3.15      .04  1312.00
    3480.       35.    3271.     174.      28.     865.     139.      19.       8.  1312.00
      .07     1.24     3.78     1.25     .070     .050     .070     .000  1309.00  4897.90
  .002528      845.     890.     955.        3        0        0      .00   347.57  5245.48
0
 FLOW DISTRIBUTION FOR SECNO=       .17          CWSEL=   1314.52

 STA=    4898.    4920.    5135.    5245.
   PER Q=      1.0     94.0      5.0
   AREA=     27.9    865.4    139.5
    VEL=      1.2      3.8      1.2

 *SECNO  .345

 1645 INT SEC ADDED BY RAISING SEC       .34,  -4.500FT AND MULTIPLYING BY   2.035


 3265 DIVIDED FLOW

     1.01     4.67  1315.17      .00      .00  1315.43      .26      .68      .01  1311.50
    3540.     592.    2768.     180.     316.     611.     151.      25.      10.  1311.50
      .08     1.97     4.53     1.19     .070     .050     .070     .000  1310.50  5410.65
  .003472      248.     233.     193.        2        0        0      .00   601.09  6225.28
0
1
  05/05/88    13:16:55                                                                  PAGE    7


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1315.17

 STA=    5411.    5583.    5730.    5768.    6086.    6225.
   PER Q=     16.7     78.2      3.7       .6       .8
   AREA=    316.4    610.7     70.3     34.6     46.1
    VEL=      1.9      4.5      1.9       .6       .6
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1645 INT SEC ADDED BY RAISING SEC 1.01, 1.500FT AND MULTIPLYING BY .826

3265 DIVIDED FLOW

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     1.02     4.17  1316.17      .00      .00  1316.75      .58     1.22      .10  1313.00
    3600.      531.    2949.     113.     137.     446.      49.      29.      12.   1313.00
      .10     2.70     6.62     2.46     .070     .050     .070     .000  1312.00  5255.17
  .008736     248.     233.     193.        2        0        0      .00   326.38  5825.04
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1316.17

 STA=    5255.    5379.    5500.    5528.    5794.    5825.
   PER Q=     14.8     81.9      3.3       .0       .0
    AREA=    196.6    445.5     43.7      2.1      2.8
     VEL=      2.7      6.6      2.7       .4       .4
```

1645 INT SEC ADDED BY RAISING SEC 1.02, 1.500FT AND MULTIPLYING BY .789

3265 DIVIDED FLOW

```
     1.03     4.66  1318.16      .00      .00  1318.92      .66     2.04      .02  1314.50
    3659.      612.    2863.     185.     206.     398.      98.      33.      14.   1314.50
      .11     2.97     7.20     1.89     .070     .050     .070     .000  1313.50  5062.03
  .008774     248.     233.     193.        2        0        0      .00   390.73  5592.23
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1318.16

 STA=    5062.    5174.    5270.    5295.    5502.    5592.
   PER Q=     16.7     78.2      3.7       .6       .8
    AREA=    205.8    397.6     45.7     22.3     29.8
     VEL=      3.0      7.2      3.0       .9       .9
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
```

1645 INT SEC ADDED BY RAISING SEC 1.03, 1.500FT AND MULTIPLYING BY .733

3265 DIVIDED FLOW

```
      .34     5.20  1320.20  1319.63      .00  1320.99      .78     2.12      .04  1316.00
    3719.      692.    2674.     353.     199.     329.     172.      37.      16.   1316.00
      .12     3.48     8.13     2.05     .070     .050     .070     .000  1315.00  4868.19
  .009523     248.     233.     193.        6        5        0      .00   429.04  5342.71
0
 FLOW DISTRIBUTION FOR SECNO=       .34          CWSEL=   1320.20

 STA=    4868.    4880.    4970.    5040.    5060.    5072.    5135.    5210.    5310.    5343.
   PER Q=      .0     18.6     71.9      4.1       .0       .0      2.3      3.1       .0
    AREA=     1.2    197.7    328.8     43.9      1.2      1.7     52.3     69.7      3.2
     VEL=      .4      3.5      8.1      3.5       .4       .4      1.6      1.6       .4

 *SECNO  .541
      .54     6.40  1326.40      .00      .00  1326.70      .30     5.68      .05  1324.00
```

```
      .18     1.95     5.78     3.34     .070     .050     .070     .000  1320.00  4679.87
   .003676     940.    1035.    1045.        5        0        0      .00   420.17  5100.03
0
 FLOW DISTRIBUTION FOR SECNO=       .54          CWSEL=   1326.40

 STA=    4680.    4740.    4770.    4870.    4970.    5020.    5085.    5100.
   PER Q=      2.8      4.5     10.1     10.1     45.1     26.6       .7
    AREA=     72.3     72.2    190.5    190.5    290.3    286.4     18.1
     VEL=      1.5      2.3      2.0      2.0      5.8      3.5      1.4

 *SECNO  .673
      .67     5.97  1328.97      .00      .00  1329.17      .20     2.46      .01  1328.00
    3958.      13.     1612.    2333.      18.     333.     951.      77.      33.   1324.00
      .24      .76     4.84     2.45     .070     .050     .070     .000  1323.00  4913.65
   .003348     690.     700.     710.        2        0        0      .00   504.65  5418.30
0
 FLOW DISTRIBUTION FOR SECNO=       .67          CWSEL=   1328.97

 STA=    4914.    4950.    5020.    5325.    5418.
   PER Q=      .3     40.7     58.1       .9
    AREA=    17.6    332.9    905.7     45.2
     VEL=      .8      4.8      2.5       .8

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       BLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELWIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 CCHV=    .300 CEHV=    .500
 *SECNO  .829

 1645 INT SEC ADDED BY RAISING SEC       .83,  -2.667FT AND MULTIPLYING BY    .945


 3301 HV CHANGED MORE THAN HVING

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      1.01     6.16  1330.49  1330.49      .00  1332.26     1.77     1.77      .78  1329.33
    3958.      35.     3859.      64.      18.     357.      33.      83.      35.   1329.33
      .25     1.93    10.81     1.93     .070     .050     .070     .000  1324.33  4989.38
   .017091     270.     273.     277.        3        8        0      .00   164.50  5053.88
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1330.49

 STA=    4889.    4921.    4996.    5054.
   PER Q=      .9     97.5      1.6
    AREA=    18.2    356.9     33.2
     VEL=     1.9     10.8      1.9


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.333FT AND MULTIPLYING BY   1.029


 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVING

      1.02     8.26  1333.92      .00      .00  1334.41      .48     1.76      .39  1330.67
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     3338.     1.67     6.12     1.67     .070     .050     .070     .000  1325.67  4844.40
      .26     1.70     6.12     1.67     .070     .050     .070     .000  1325.67  4844.40
   .003347    270.     273.     277.        3        0        0      .00   374.65  5300.63
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1333.92

 STA=    4844.    4935.    5013.    5173.    5276.    5301.
  PER Q=      6.4     82.0     11.6       .0       .0
   AREA=    148.1    530.5    270.5      1.9      3.2
    VEL=      1.7      6.1      1.7       .3       .3

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.333FT AND MULTIPLYING BY   1.028

      .83     7.89  1334.89      .00      .00  1335.46      .57     1.01      .04  1332.00
     3958.     208.     3369.     381.     120.     516.     219.     93.      39.   1332.00
      .28     1.74     6.53     1.74     .070     .050     .070     .000  1327.00  4866.93
   .004097    270.     273.     277.        3        0        0      .00   314.76  5181.69
0
 FLOW DISTRIBUTION FOR SECNO=       .83          CWSEL=   1334.89

 STA=    4867.    4950.    5030.    5182.
  PER Q=      5.3     85.1      9.6
   AREA=    120.0    516.1    219.2
    VEL=      1.7      6.5      1.7

 *SECNO  .946

 1645 INT SEC ADDED BY RAISING SEC       .95,  -2.000FT AND MULTIPLYING BY   1.360

 3301 HV CHANGED MORE THAN HVINS

     1.01     7.91  1335.91      .00      .00  1337.12     1.21     1.34      .32  1340.00
    4038.       0.    4038.       0.       0.     457.       0.     96.      40.   1340.00
      .29      .00     8.84      .00     .070     .050     .070     .000  1329.00  4968.59
   .011707    220.     207.     182.        1        0        0      .00    98.78  5067.38
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1335.91

 STA=    4969.    5086.
  PER Q=    100.0
   AREA=    456.7
    VEL=      8.9

 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.000FT AND MULTIPLYING BY    .868

     1.02     9.16  1338.16      .00      .00  1339.17     1.01     1.99      .06  1341.00
    4117.       0.    4117.       0.       0.     511.       0.     98.      41.   1341.00
      .29      .00     8.85      .00     .070     .050     .070     .000  1329.00  4961.15
   .008071    220.     207.     182.        3        0        0      .00    95.69  5056.84
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1338.16

STA=    4961.    5068.
  PER Q=    100.0
   AREA=    511.2
    VEL=      8.1


1645 INT SEC ADDED BY RAISING SEC      1.02,   1.000FT AND MULTIPLYING BY    .848

      .95     9.81  1339.81      .00      .00  1340.96     1.15     1.72      .07  1342.00
     4197.      0.    4197.      0.       0.     487.      0.     100.      41.   1342.00
      .30      .00     8.62      .00     .070     .050     .070     .000  1330.00  4957.30
  .008571     220.     207.     182.        2        0        0      .00    95.40  5042.70
0
FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1339.81

STA=    4957.    5050.
  PER Q=    100.0
   AREA=    486.9
    VEL=      8.6

*SECNO  .952
      .95    10.02  1340.02      .00      .00  1341.27     1.25      .26      .05  1342.00
     4535.      0.    4535.      0.       0.     506.      0.     101.      41.   1342.00
      .30      .00     8.97      .00     .070     .050     .070     .000  1330.00  4956.58
  .009032      30.      30.      30.        2        0        0      .00    86.84  5043.42
0
FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1340.02

STA=    4957.    5050.
  PER Q=    100.0
   AREA=    505.6
    VEL=      9.0

CCHV=    .100 CEHV=    .300
*SECNO 1.040

1645 INT SEC ADDED BY RAISING SEC      1.04,  -2.000FT AND MULTIPLYING BY    .953

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

     1.01    10.54  1341.54      .00      .00  1341.59      .05      .20      .12  1334.00
     4535.    2489.    1467.     579.    1956.     553.    1039.     108.      44.   1338.00
      .32     1.27     2.65      .56     .070     .050     .070     .000  1331.00  4387.85
```

0

FLOW DISTRIBUTION FOR SECNO= 1.01 CWSEL= 1341.54

STA=	4388.	4658.	4924.	4991.	5033.	5372.	5856.
PER Q=	7.2	47.7	32.3	1.1	4.2	7.4
AREA=	477.9	1478.1	552.9	74.7	348.7	615.3
VEL=	.7	1.5	2.7	.7	.5	.5

1645 INT SEC ADDED BY RAISING SEC 1.01, 1.000FT AND MULTIPLYING BY 1.025

3265 DIVIDED FLOW

1.02	9.62	1341.62	.00	.00	1341.71	.10	.11	.01	1335.00
4535.	2525.	1746.	264.	1532.	504.	444.	119.	48.	1339.00
.34	1.65	3.47	.59	.070	.050	.070	.000	1332.00	4464.12
.000966	163.	155.	148.	2	0	0	.00	1074.49	5717.73

0

FLOW DISTRIBUTION FOR SECNO= 1.02 CWSEL= 1341.62

STA=	4464.	4669.	4942.	5011.	5043.	5401.	5718.
PER Q=	4.7	51.0	38.5	.7	1.9	3.2
AREA=	268.4	1263.4	503.8	41.9	145.5	256.7
VEL=	.8	1.8	3.5	.8	.6	.6

1645 INT SEC ADDED BY RAISING SEC 1.02, 1.000FT AND MULTIPLYING BY 1.024

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

1.04	8.77	1341.77	.00	.00	1341.94	.17	.21	.02	1336.00
4535.	2449.	2023.	63.	1184.	457.	114.	127.	52.	1340.00
.36	2.07	4.43	.55	.070	.050	.070	.000	1333.00	4537.67
.001852	163.	155.	148.	2	0	0	.00	757.67	5585.32

0

FLOW DISTRIBUTION FOR SECNO= 1.04 CWSEL= 1341.77

STA=	4538.	4680.	4960.	5030.	5052.	5430.	5585.
PER Q=	2.4	51.7	44.6	.4	.4	.6
AREA=	126.3	1057.5	456.9	19.7	34.2	60.3
VEL=	.8	2.2	4.4	.8	.5	.5

*SECNO 1.165

1645 INT SEC ADDED BY RAISING SEC 1.16, -2.333FT AND MULTIPLYING BY .875

3301 HV CHANGED MORE THAN HVING

1.01	7.59	1341.76	.00	.00	1343.07	1.31	.79	.34	1337.67
4429.	288.	3951.	191.	83.	410.	55.	132.	54.	1337.67
.36	3.48	9.65	3.45	.070	.050	.070	.000	1334.17	4385.86
.010076	212.	220.	232.	3	0	0	.00	143.09	5028.96

```
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1341.76

 STA=    4886.    4926.    4996.    5023.    5029.
   PER Q=      6.5     89.2      4.3       .0
    AREA=     82.6    409.5     55.1       .3
     VEL=      3.5      9.6      3.5       .3


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.167FT AND MULTIPLYING BY   1.071


 3301 HV CHANGED MORE THAN HVINS

      1.02     8.54  1343.88      .00      .00  1344.56      .68     1.43      .06  1338.83
     4323.     391.    3641.     292.     135.     510.     125.     136.      55.  1338.83
       .37     2.99     7.13     2.34     .070     .050     .070     .000  1335.33  4881.12
   .004498     212.     220.     232.        2        0        0      .00   231.06  5112.17
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       BLOSS    BANK ELEV
    Q        BLOB     BCH      BROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1343.88

 STA=    4881.    4893.    4936.    5011.    5039.    5112.
   PER Q=       .1      8.9     84.2      5.9       .8
    AREA=      6.5    128.8    510.4     85.9     38.6
     VEL=       .9      3.0      7.1      3.0       .9


 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.167FT AND MULTIPLYING BY   1.066

      1.16     8.40  1344.90      .00      .00  1345.52      .61      .95      .01  1340.00
     4217.     366.    3587.     265.     136.     532.     117.     140.      56.  1340.00
       .38     2.70     6.74     2.26     .070     .050     .070     .000  1336.50  4888.72
   .004134     212.     220.     232.        2        0        0      .00   233.29  5122.01
0
 FLOW DISTRIBUTION FOR SECNO=      1.16          CWSEL=   1344.90

 STA=    4889.    4900.    4945.    5025.    5055.    5122.
   PER Q=       .1      8.6     85.0      5.7       .6
    AREA=      5.1    130.6    532.2     87.1     30.2
     VEL=       .8      2.8      6.7      2.8       .8

 *SECNO 1.239
      1.24     7.62  1346.62      .00      .00  1346.90      .28     1.35      .03  1344.00
     4217.      53.    2045.    2119.      39.     388.     690.     148.      58.  1340.00
       .41     1.37     5.27     3.07     .070     .050     .070     .000  1339.00  4925.53
   .002928     345.     390.     405.        3        0        0      .00   267.22  5192.75
0
 FLOW DISTRIBUTION FOR SECNO=      1.24          CWSEL=   1346.62

 STA=    4926.    4955.    5020.    5160.    5193.
   PER Q=      1.3     48.5     48.9      1.4
    AREA=     38.6    387.8    646.8     42.9
     VEL=      1.4      5.3      3.2      1.4

 *SECNO 1.326
      1.33     5.77  1348.27      .00      .00  1349.04      .77     1.99      .15  1344.00
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      .43     3.17     7.64     3.20     .070     .050     .070     .000  1342.50  4942.62
   .007683     500.     460.     410.        3        0        0      .00   205.53  5148.15
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.33          CWSEL=   1348.27

 STA=    4943.    4970.    5060.    5140.    5148.
   PER Q=      4.3     81.8     13.8      .0
    AREA=     57.1    452.0    181.7     1.1
     VEL=      3.2      7.6      3.2      .5

 *SECNO 1.408
      1.41     5.68  1351.68      .00      .00  1352.22      .54     3.16      .02  1348.00
     3898.    1344.     2345.     209.     419.     328.      76.     164.      63.  1348.00
       .45     3.21     7.16     2.74     .070     .050     .070     .000  1346.00  4741.02
   .007428     370.     435.     390.        1        0        0      .00   325.38  5066.40
0
 FLOW DISTRIBUTION FOR SECNO=      1.41          CWSEL=   1351.68

 STA=    4741.    4825.    4955.    5025.    5066.
   PER Q=      2.9     31.5     60.2      5.4
    AREA=     70.5    348.4    327.6     76.2
     VEL=      1.6      3.5      7.2      2.7

 *SECNO 1.508
      1.51     5.62  1354.12      .00      .00  1354.20      .08     1.93      .05  1356.00
     3405.       0.      706.    2699.       0.     224.    1351.     178.      68.  1352.00
       .51      .00     3.15     2.00     .070     .050     .070     .000  1349.50  4969.39
   .002211     450.     525.     500.        2        0        0      .00   561.22  5530.61
0
 FLOW DISTRIBUTION FOR SECNO=      1.51          CWSEL=   1354.12

 STA=    4969.    5035.    5150.    5160.    5190.    5200.    5230.    5385.    5520.    5531.
   PER Q=     20.7     11.8      1.9      5.9       .7      2.0     30.3     26.4       .3
    AREA=    224.2    244.1     31.2     93.7     16.2     48.7    484.0    421.5     11.3
     VEL=      3.1      1.6      2.1      2.1      1.4      1.4      2.1      2.1      1.0

 *SECNO 1.659

 1645 INT SEC ADDED BY RAISING SEC      1.66,  -3.750FT AND MULTIPLYING BY    .916


 3265 DIVIDED FLOW

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3301 HV CHANGED MORE THAN HVINS
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7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.01      4.75  1354.50  1354.50      .00  1355.53      1.02      1.03      .28  1356.25
    3282.        0.     1815.     1466.       0.     182.     295.     183.      70.  1352.25
      .52       .00      9.96      4.97     .070     .050     .070     .000  1349.75  4949.18
  .023445      200.      200.      205.        4       15        0      .00   250.65  5518.09

 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1354.50

 STA=    4949.    5005.    5064.    5270.    5277.    5417.    5435.    5472.    5518.
   PER Q=     55.3      7.2       .0       .0      2.5      9.8     19.6      5.6
    AREA=    182.2     66.8       .9       .9     23.2     50.4    100.8     52.3
     VEL=     10.0      3.5       .8       .8      3.5      6.4      6.4      3.5


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.250FT AND MULTIPLYING BY   1.031


 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

     1.02      6.13  1357.13      .00      .00  1357.38      .25      1.77      .08  1357.50
    3159.        0.     1421.     1737.       0.     268.     687.     186.      71.  1353.50
      .53       .00      5.30      2.53     .070     .050     .070     .000  1351.00  4952.68
  .004444      200.      200.      205.        3        0        0      .00   418.35  5571.38
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1357.13

 STA=    4953.    5013.    5111.    5287.    5333.    5438.    5457.    5494.    5571.
   PER Q=     45.0     11.8      1.5      1.5      4.1      9.0     17.9      9.3
    AREA=    268.4    178.0     37.3     37.3     61.9     77.8    155.6    133.3
     VEL=      5.3      2.1      1.2      1.2      2.1      3.6      3.6      2.1


 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.250FT AND MULTIPLYING BY   1.030

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 3265 DIVIDED FLOW

     1.03      5.83  1358.08      .00      .00  1358.36      .29      .98      .01  1358.75
    3035.        0.     1430.     1605.       0.     258.     602.     190.      73.  1354.75
      .55       .00      5.55      2.67     .070     .050     .070     .000  1352.25  4960.04
  .005257      200.      200.      205.        2        0        0      .00   394.61  5589.86
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1358.08

 STA=    4960.    5022.    5114.    5303.    5342.    5459.    5478.    5517.    5590.
   PER Q=     47.1     11.0      1.0      1.0      3.8      9.2     18.4      8.6
    AREA=    257.8    154.1     25.5     25.5     53.6     74.3    148.6    120.6
     VEL=      5.5      2.2      1.2      1.2      2.2      3.8      3.8      2.2


 1645 INT SEC ADDED BY RAISING SEC      1.03,   1.250FT AND MULTIPLYING BY   1.029
```

3265 DIVIDED FLOW

1.66	5.66	1359.16	.00	.00	1359.45	.28	1.03	.00	1360.00
2912.	0.	1406.	1506.	0.	255.	566.	194.	75.	1356.00
.56	.00	5.51	2.66	.070	.050	.070	.000	1353.50	4967.10
.005418	200.	200.	205.	2	0	0	.00	386.02	5611.09

0

FLOW DISTRIBUTION FOR SECNO= 1.66 CWSEL= 1359.16

STA=	4967.	5030.	5121.	5320.	5355.	5480.	5500.	5540.	5611.
PER Q=	48.3	10.4	.8	.8	3.6	9.3	18.7	8.2	
AREA=	255.0	143.5	20.2	20.2	49.9	73.2	146.4	112.3	
VEL=	5.5	2.1	1.1	1.1	2.1	3.7	3.7	2.1	

*SECNO 1.782

1645 INT SEC ADDED BY RAISING SEC 1.78, -3.000FT AND MULTIPLYING BY 1.904

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.01	5.78	1360.78	1360.78	.00	1361.80	1.02	1.81	.22	1357.00
2912.	896.	2016.	0.	274.	212.	0.	198.	77.	1387.00
.57	3.27	9.51	.00	.070	.050	.070	.000	1355.00	4846.15
.014921	203.	217.	215.	3	5	0	.00	265.04	5516.69

0

FLOW DISTRIBUTION FOR SECNO= 1.01 CWSEL= 1360.78

STA=	4846.	4897.	4982.	5468.	5564.
PER Q=	3.7	6.2	20.8	69.2	
AREA=	45.3	75.5	153.1	211.9	
VEL=	2.4	2.4	4.0	3.5	

1645 INT SEC ADDED BY RAISING SEC 1.01, 1.500FT AND MULTIPLYING BY .763

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1.02	6.94	1363.44	.00	.00	1363.89	.45	2.03	.06	1358.50
2912.	1424.	1468.	20.	539.	205.	19.	201.	79.	1388.50
.58	2.64	7.15	1.05	.070	.050	.070	.000	1356.50	4629.89
.006709	203.	217.	215.	2	0	0	.00	515.89	5547.10

0

FLOW DISTRIBUTION FOR SECNO= 1.02 CWSEL= 1363.44

STA=									
PER Q=	2.0	7.9	13.1	1.6	.8	23.6	50.4	.1	.6
AREA=	54.3	84.7	141.1	45.2	21.0	192.3	205.4	3.7	15.3
VEL=	1.1	2.7	2.7	1.1	1.1	3.6	7.1	1.0	1.1

1645 INT SEC ADDED BY RAISING SEC 1.02, 1.500FT AND MULTIPLYING BY .689

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

1.78	7.09	1365.09	1365.06	.00	1365.86	.77	1.87	.10	1360.00
2912.	1504.	1381.	27.	414.	145.	17.	204.	81.	1390.00
.59	3.64	9.52	1.57	.070	.050	.070	.000	1358.00	4559.27
.012424	203.	217.	215.	3	5	0	.00	384.96	5205.65

0

FLOW DISTRIBUTION FOR SECNO= 1.78 CWSEL= 1365.09

STA=	4559.	4650.	4680.	4730.	4806.	4935.	4980.	5030.	5180.	5206.
PER Q=	2.6	8.3	13.8	2.2	1.0	23.8	47.4	.2	.7	
AREA=	49.0	62.4	104.0	40.8	19.0	138.6	145.1	3.4	13.9	
VEL=	1.6	3.9	3.9	1.6	1.6	5.0	9.5	1.6	1.6	

SECNO 1.912

1645 INT SEC ADDED BY RAISING SEC 1.91, -2.000FT AND MULTIPLYING BY .937

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVING

1.01	6.93	1366.93	.00	.00	1367.02	.09	1.09	.07	1362.00
2008.	965.	649.	1193.	530.	160.	823.	210.	84.	1362.00
.63	1.82	4.07	1.45	.070	.050	.070	.000	1360.00	4774.44
.001773	245.	343.	285.	2	0	0	.00	710.74	5569.01

0

FLOW DISTRIBUTION FOR SECNO= 1.01 CWSEL= 1366.93

STA=	4774.	4962.	4989.	5047.	5294.	5393.	5438.	5460.	5510.	5569.
PER Q=	34.4	23.1	11.1	3.2	11.5	7.4	3.1	4.7	1.4	
AREA=	530.0	159.7	171.0	117.7	215.4	120.3	54.6	95.3	48.6	
VEL=	1.8	4.1	1.8	.8	1.5	1.7	1.6	1.4	.8	

1645 INT SEC ADDED BY RAISING SEC 1.01, 2.000FT AND MULTIPLYING BY 1.115

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

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     1.91     5.66  1367.66      .00      .00  1368.02      .35      .91      .09  1364.00
    2704.     923.     997.     784.     336.     140.     350.     218.      88.  1364.00
      .65     2.75     7.13     2.24     .070     .050     .070     .000  1362.00  4806.75
  .007474     245.     343.     285.        3        0        0      .00   488.86  5590.79
0
 FLOW DISTRIBUTION FOR SECNO=      1.91          CWSEL=   1367.66

 STA=    4807.    4990.    5020.    5080.    5470.    5520.    5545.    5591.
   PER Q=     34.1     36.9     11.1      7.4      6.1      2.2      2.3
    AREA=    335.8    140.0    109.1    103.1     70.8     29.1     38.1
     VEL=      2.7      7.1      2.7      1.9      2.3      2.0      1.6

 *SECNO 2.139
     2.14     4.12  1378.12      .00      .00  1378.49      .38    10.47      .01  1376.00
    2704.     227.    1246.    1231.      94.     187.     451.     238.     101.  1376.00
      .72     2.40     6.67     2.73     .070     .050     .070     .000  1374.00  4884.78
  .011132    1140.    1200.    1125.        4        0        0      .00   493.50  5378.28
0
 FLOW DISTRIBUTION FOR SECNO=      2.14          CWSEL=   1378.12

 STA=    4885.    4970.    5030.    5110.    5300.    5378.
   PER Q=      8.4     46.1     14.7     26.3      4.5
    AREA=     94.5    186.7    128.9    258.7     63.1
     VEL=      2.4      6.7      3.1      2.8      1.9

 *SECNO 2.289

 3265 DIVIDED FLOW

     2.29     5.00  1383.50      .00      .00  1383.74      .24     5.23      .01  1380.00
    2704.     110.    1325.    1270.      54.     255.     633.     253.     110.  1380.00
      .78     2.05     5.20     2.01     .070     .050     .070     .000  1378.50  4929.39
  .004451     850.     790.     765.        5        0        0      .00   525.11  5544.83
0
 FLOW DISTRIBUTION FOR SECNO=      2.29          CWSEL=   1383.50

 STA=    4929.    4960.    5020.    5370.    5500.    5545.
   PER Q=      4.1     49.0     46.5      .2      .2
    AREA=     53.5    254.9    611.9     9.9    11.2
     VEL=      2.0      5.2      2.1      .6      .6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 *SECNO 2.478

 3265 DIVIDED FLOW

     2.48     3.65  1390.15      .00      .00  1390.48      .32     6.71      .03  1388.00
    2704.     233.     950.    1522.      93.     145.     496.     272.     121.  1388.00
      .84     2.50     6.55     3.07     .070     .050     .070     .000  1386.50  4875.83
  .011782    1020.    1000.     965.        3        0        0      .00   469.28  5391.91
0
 FLOW DISTRIBUTION FOR SECNO=      2.48          CWSEL=   1390.15
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 STA=    4876.    4890.    4970.    5020.    5052.    5225.    5392.
   PER Q=      .0      8.6     35.1      3.1     22.9     30.3
    AREA=     1.1     91.9    145.0     34.6    198.3    262.8
     VEL=      .4      2.5      6.6      2.4      3.1      3.1

 *SECNO 2.666
     2.67     5.14  1398.14      .00      .00  1398.43      .29     7.95      .00  1396.00
    2495.      64.    1545.     886.      38.     291.     479.     290.     132.   1396.00
      .91     1.68     5.30     1.85     .070     .050     .070     .000  1393.00  4914.29
  .005699     955.     990.     990.        4        0        0      .00   524.98  5439.27
0
 FLOW DISTRIBUTION FOR SECNO=      2.67          CWSEL=   1398.14

 STA=    4914.    4950.    5030.    5115.    5385.    5439.
   PER Q=      2.6     61.9     12.5     21.7      1.4
    AREA=     38.3    291.4    139.6    308.5     31.0
     VEL=      1.7      5.3      2.2      1.8      1.1

 *SECNO 2.789
     2.79     3.97  1403.47      .00      .00  1404.04      .56     5.53      .08  1400.00
    2495.     164.    1439.     892.      63.     186.     453.     302.     140.   1400.00
      .95     2.58     7.73     1.97     .090     .050     .090     .000  1399.50  4933.44
  .011730     735.     700.     690.        4        0        0      .00   513.90  5447.34
0
 FLOW DISTRIBUTION FOR SECNO=      2.79          CWSEL=   1403.47

 STA=    4933.    4970.    5020.    5075.    5370.    5447.
   PER Q=      6.6     57.7     12.2     20.2      3.3
    AREA=     63.5    186.2    108.5    287.1     57.0
     VEL=      2.6      7.7      2.8      1.8      1.5
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 2.943

 3265 DIVIDED FLOW

     2.94     5.20  1409.20      .00      .00  1409.51      .32     5.45      .02  1404.00
    2286.     334.    1106.     846.     157.     182.     382.     314.     147.   1404.00
     1.00     2.13     6.08     2.21     .090     .050     .090     .000  1404.00  4892.04
  .004640     770.     765.     760.        4        0        0      .00   279.94  5256.00
0
 FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1409.20

 STA=    4892.    4940.    4980.    5015.    5095.    5104.    5200.    5225.    5250.    5256.
   PER Q=      1.0     13.6     48.4     27.3      .2      .3     4.6     4.6      .1
    AREA=     28.8    128.0    182.0    255.9     5.4     7.2    55.0    55.0     3.6
     VEL=      .8      2.4      6.1      2.4      .8      .8     1.9     1.9      .8

 SECNO 3.111

 1645 INT SEC ADDED BY RAISING SEC      3.11,  -3.500FT AND MULTIPLYING BY   1.153

     1.01     4.80  1412.30      .00      .00  1413.02      .71     3.39      .12  1408.50
    2286.    1027.    1259.       0.     325.     145.       0.     320.     150.   1412.50
     1.02     3.16     8.68     .00     .090     .050     .090     .000  1407.50  4841.13
  .015582     435.     443.     420.        2        0        0      .00   210.43  5051.56
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0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1412.30

 STA=    4841.    5012.    5052.
   PER Q=     44.9     55.1
    AREA=    324.7    145.0
     VEL=      3.2      8.7


 1645 INT SEC ADDED BY RAISING SEC      1.01,   3.500FT AND MULTIPLYING BY    .867

 3280 CROSS SECTION      3.11 EXTENDED       .41 FEET

      3.11     5.90  1416.90      .00      .00  1417.28      .38     4.23      .03  1412.00
     2286.    1191.    1090.       4.     465.     164.       6.     326.     152.  1416.00
      1.05     2.56     6.64      .79     .090     .050     .090     .000  1411.00  4810.00
   .006548     435.     443.     420.        4        0        0      .00   222.12  5032.12
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.11          CWSEL=   1416.90

 STA=    4810.    4985.    5020.    5032.
   PER Q=     52.1     47.7       .2
    AREA=    465.3    164.3      5.5
     VEL=      2.6      6.6       .8

 *SECNO 3.277
      3.28     4.92  1423.92      .00      .00  1424.52      .59     7.17      .06  1420.00
     2286.     207.     1108.    971.      77.     133.     322.     337.     156.  1420.00
      1.09     2.69     8.35     3.02     .090     .050     .090     .000  1419.00  4940.77
   .010901     840.     880.     855.        4        0        0      .00   208.55  5149.32
0
 FLOW DISTRIBUTION FOR SECNO=      3.28          CWSEL=   1423.92

 STA=    4941.    4980.    5010.    5065.    5115.    5149.
   PER Q=      9.1     48.4     18.1     16.5      7.9
    AREA=     76.9    132.7    133.3    121.1     67.3
     VEL=      2.7      8.3      3.1      3.1      2.7

 *SECNO 3.406

 3265 DIVIDED FLOW

      3.41     4.03  1430.03      .00      .00  1430.29      .27     5.74      .03  1428.00
     2078.      14.     1835.    229.      10.     425.      88.     345.     160.  1426.00
      1.14     1.34     4.32     2.60     .090     .050     .090     .000  1426.00  4939.91
   .006651     670.     680.     670.        4        0        0      .00   225.60  5287.62
0
 FLOW DISTRIBUTION FOR SECNO=      3.41          CWSEL=   1430.03

 STA=    4940.    4950.    5250.    5275.    5288.
   PER Q=       .7     88.3     10.2       .8
    AREA=      10.2    424.5     75.5     12.7
     VEL=      1.3      4.3      2.8      1.3

 *SECNO 3.558
      3.56     2.42  1436.42      .00      .00  1436.75      .33     6.44      .02  1435.00
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     1.18     1.67     5.23     2.21     .090     .050     .090     .000  1434.00  4720.35
   .011614    710.     800.     550.       4        0        0      .00   352.75  5073.10
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.56          CWSEL=   1436.42

 STA=    4720.    4725.    4925.    5040.    5070.    5073.
   PER Q=       .0     18.5     75.8      5.7       .0
    AREA=      1.0    182.6    240.0     42.4       .6
     VEL=       .6      1.7      5.2      2.2       .6

 *SECNO 3.669
     3.67     4.14  1442.14      .00      .00  1442.65      .51     5.85      .05  1440.00
    1657.     126.     1508.     23.      77.     251.      14.     359.     168.   1440.00
     1.21     1.63     6.01     1.62     .090     .050     .090     .000  1439.00  4877.88
   .000923    520.     585.     595.       4        0        0      .00   163.47  5043.36
0
 FLOW DISTRIBUTION FOR SECNO=      3.67          CWSEL=   1442.14

 STA=    4870.    4950.    5030.    5043.
   PER Q=       7.6     91.0      1.4
    AREA=      77.1    250.9     14.3
     VEL=       1.6      6.0      1.6

 *SECNO 3.752
     3.75     5.27  1445.77      .00      .00  1446.33      .55     3.66      .01  1444.00
    1657.      13.     1602.     42.      10.     264.      31.     362.     169.   1444.00
     1.23     1.33     6.06     1.34     .090     .050     .090     .000  1440.50  4958.91
   .007793    430.     440.     440.       4        0        0      .00   121.58  5080.49
0
 FLOW DISTRIBUTION FOR SECNO=      3.75          CWSEL=   1445.77

 STA=    4959.    4970.    5045.    5080.
   PER Q=       .8     96.7      2.6
    AREA=      9.8    264.3     31.5
     VEL=      1.3      6.1      1.3

 *SECNO 3.809
     3.81     4.44  1448.44      .00      .00  1449.14      .70     2.77      .04  1460.00
    1657.       0.     1657.      0.       0.     247.       0.     364.     170.   1448.00
     1.25      .00     6.72     .61     .090     .050     .090     .000  1444.00  4961.95
   .011170    260.     300.     280.       3        0        0      .00    79.34  5041.29
0
1
  05/05/88    13:16:55                                                                    PAGE   25

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.81          CWSEL=   1448.44

 STA=    4962.    5040.    5041.
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  AREA=    246.6       .3
   VEL=      6.7       .6

*SECNO 3.932
     3.93     4.30  1455.30      .00      .00  1455.91      .62     6.76      .01  1452.00
    1657.     163.    1229.     265.      71.     171.     116.     368.     172.   1452.00
     1.28     2.29     7.19     2.29     .090     .050     .090     .000  1451.00  4926.71
  .003889     610.     650.     600.        3        0        0      .00   158.38  5085.09
0
 FLOW DISTRIBUTION FOR SECNO=      3.93          CWSEL=   1455.30

 STA=    4927.    4970.    5015.    5085.
   PER Q=      9.9     74.2     16.0
   AREA=     71.4    170.9    115.6
    VEL=      2.3      7.2      2.3

 *SECNO 4.033
     4.03     4.94  1459.94      .00      .00  1460.61      .68     4.68      .02  1456.00
    1657.     154.    1415.      88.      68.     199.      39.     372.     173.   1456.00
     1.30     2.28     7.10     2.26     .090     .050     .090     .000  1455.00  4940.60
  .007840     525.     535.     530.        3        0        0      .00    99.06  5039.66
0
 FLOW DISTRIBUTION FOR SECNO=      4.03          CWSEL=   1459.94

 STA=    4941.    4975.    5020.    5040.
   PER Q=      9.3     85.4      5.3
   AREA=     67.6    199.4     38.6
    VEL=      2.3      7.1      2.3

 *SECNO 4.157
     4.16     4.77  1465.77      .00      .00  1466.43      .66     5.82      .00  1464.00
    1654.      18.    1618.      18.      12.     246.      12.     377.     175.   1464.00
     1.33     1.53     6.59     1.53     .090     .050     .090     .000  1461.00  4941.68
  .010140     675.     655.     630.        3        0        0      .00   101.63  5043.32
0
1
 05/05/88    13:16:55                                                                    PAGE   26


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      4.16          CWSEL=   1465.77

 STA=    4942.    4955.    5030.    5043.
   PER Q=      1.1     97.8      1.1
   AREA=     11.8    245.7     11.8
    VEL=      1.5      6.6      1.5

 *SECNO 4.290
     4.29     5.29  1471.29      .00      .00  1471.83      .54     5.38      .01  1468.00
    1654.      41.    1559.      53.      24.     257.      30.     381.     176.   1468.00
     1.36     1.75     6.08     1.76     .090     .050     .090     .000  1466.00  4960.66
  .006034     725.     700.     665.        3        0        0      .00    92.78  5053.44

 FLOW DISTRIBUTION FOR SECNO=      4.29          CWSEL=   1471.29

 STA=    4961.    4975.    5035.    5053.
   PER Q=      2.5     94.3      3.2
   AREA=     23.5    256.7     30.2
    VEL=      1.8      6.1      1.8
```

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*SECNO 4.43
     4.43     5.43  1477.43      .00      .00  1478.40      .97     6.44      .13  1476.00
    1654.       9.    1637.       8.       6.     206.       5.     386.     178.   1476.00
     1.39     1.55     7.95     1.55     .090     .050     .090     .000  1472.00  4941.66
  .014133     720.     730.     720.        2        0        0      .00    75.49  5017.15
0
 FLOW DISTRIBUTION FOR SECNO=      4.43          CWSEL=   1477.43

 STA=    4942.    4950.    5010.    5017.
   PER Q=       .6     99.0       .5
    AREA=      6.0    205.8      5.1
     VEL=      1.6      8.0      1.5

 *SECNO 4.549
     4.55     5.15  1484.65      .00      .00  1485.54      .89     7.13      .01  1480.00
    1654.     185.    1398.      71.      68.     172.      27.     389.     179.   1480.00
     1.41     2.73     8.15     2.62     .090     .050     .090     .000  1479.50  4945.93
  .009037     600.     640.     700.        3        0        0      .00    75.70  5021.63
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      4.55          CWSEL=   1484.65

 STA=    4946.    4975.    5010.    5022.
   PER Q=      11.2     84.5      4.3
    AREA=      67.6    171.6     27.0
     VEL=       2.7      8.2      2.6

 *SECNO 4.716
     4.72     4.13  1494.13      .00      .00  1494.93      .80     9.38      .01  1492.00
    1654.      28.    1593.      33.      14.     219.      17.     394.     180.   1492.00
     1.44     1.96     7.28     1.96     .090     .050     .090     .000  1490.00  4936.72
  .013174     750.     880.     740.        4        0        0      .00    99.22  5035.94
0
 FLOW DISTRIBUTION FOR SECNO=      4.72          CWSEL=   1494.13

 STA=    4937.    4950.    5020.    5036.
   PER Q=       1.7     96.3      2.0
    AREA=      14.1    218.8     16.9
     VEL=       2.0      7.3      2.0

 *SECNO 4.837
     4.84     4.67  1500.67      .00      .00  1501.19      .52     6.23      .03  1496.00
    1654.     511.     999.     144.     189.     140.      54.     399.     182.   1496.00
     1.48     2.70     7.13     2.67     .090     .050     .090     .000  1496.00  4903.32
  .007386     685.     640.     600.        4        0        0      .00   128.35  5031.67
0
 FLOW DISTRIBUTION FOR SECNO=      4.84          CWSEL=   1500.67

 STA=    4903.    4910.    4980.    5010.    5030.    5032.
   PER Q=       .1     30.8     60.4      8.7       .0
    AREA=      2.2    186.8    140.0     53.4       .6
     VEL=       .7      2.7      7.1      2.7       .7

 *SECNO 4.915
     4.91     4.78  1503.78      .00      .00  1504.58      .80     3.31      .08  1500.00
    1650.      18.    1570.      62.       9.     214.      27.     402.     183.   1500.00
     1.49     2.00     7.33     2.31     .090     .050     .090     .000  1499.00  4965.27
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      4.91          CWSEL=   1503.78

 STA=    4965.    4970.    5020.    5034.
   PER Q=      1.1      95.2      3.8
    AREA=      9.0     214.3     26.9
     VEL=      2.0       7.3      2.3

 *SECNO 4.998
      5.00     4.58  1508.58      .00      .00  1509.18      .60     4.58      .02  1508.00
     1650.       4.    1646.       0.       5.     265.       0.     405.     184.   1520.00
      1.51      .81     6.22      .00     .090     .050     .090     .000  1504.00  4894.15
   .012796     370.     440.     285.        3        0        0      .00   120.15  5014.30
0
 FLOW DISTRIBUTION FOR SECNO=      5.00          CWSEL=   1508.58

 STA=    4894.    4910.    5050.
   PER Q=       .2     99.8
    AREA=      4.6    264.6
     VEL=       .8      6.2

 SECNO 5.044
      5.04     4.28  1511.28      .00      .00  1511.86      .59     2.68      .00  1520.00
     1650.       0.    1471.     179.       0.     228.     80.     406.     185.   1508.00
      1.53      .00     6.46     2.22     .090     .050     .090     .000  1507.00  4972.72
   .009388     190.     240.     360.        2        0        0      .00   116.40  5089.12
0
 FLOW DISTRIBUTION FOR SECNO=      5.04          CWSEL=   1511.28

 STA=    4973.    5040.    5089.
   PER Q=     89.2     10.8
    AREA=    227.7     80.4
     VEL=      6.5      2.2

1
 PROFILE FOR STREAM  CAP FLOODPLAIN-#16 EAST


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1300.     1350.     1400.     1450.     1500.     1550.     1600.     1650.     1700.     1750.
    SECNO   CUMDIS

      .00      0.  CIEM     .         .         .         .         .         .         .         .         .
             100.  CIEM     .         .         .         .         .         .         .         .         .
             200.  CIEM     .         .         .         .         .         .         .         .         .
             300.  CIWE     .         .         .         .         .         .         .         .         .
             400.  CILEM    .         .         .         .         .         .         .         .         .
             500.  CILEM    .         .         .         .         .         .         .         .         .
             600.  CILEM    .         .         .         .         .         .         .         .         .
             700.  C IEM    .         .         .         .         .         .         .         .         .
             800.  C IEM    .         .         .         .         .         .         .         .         .
      .17    900.  C IEM    .         .         .         .         .         .         .         .         .
```

	1000.	C	IEM
	1100.	C	IEM
1.01	1200.	C	IEM
	1300.	C	IEM
1.02	1400.	C	IE M
	1500.	C	WEM
1.03	1600.	C	IEM
	1700.	C	IEM
	1800.	C	IEM
.34	1900.	.	IEM
	2000.	C	IEM
	2100.	C	IEM
	2200.	C	IWE
	2300.	C	ILEM
	2400.	C	ILEM
	2500.	C	IEM
	2600.	C	IEM
	2700.	C	IEM
	2800.	C	IEM
.54	2900.	C	IEM
	3000.	C	IEM
	3100.	C	IEM
	3200.	C	ILEM
	3300.	C	ILEM
	3400.	C	ILEM
	3500.	C	IEM
.67	3600.	C	IEM
	3700.	C	IEM
	3800.	C	IEM
1.01	3900.	.	IEM
	4000.	C	IWE
	4100.	C	ILE
1.02	4200.	C	ILE
	4300.	C	ILE
.83	4400.	C	ILEM
	4500.	C	I EM
1.01	4600.	C	IEL
	4700.	C	IWE
1.02	4800.	C	I E
	4900.	C	I E
.95	5000.	C	I E
.95	5100.	C	I E
1.01	5200.	C	ILEM.
	5300.	C	ILEM.
1.02	5400.	C	ILEM.
1.04	5500.	C	IE M
	5600.	C	IEM.
	5700.	C	IWE.
1.01	5800.	C	IWE.
	5900.	C	ILE.
1.02	6000.	C	ILEM
	6100.	C	ILEM
1.16	6200.	C	ILEM
	6300.	C	ILEM
	6400.	C	IEM
	6500.	C	IE.M
1.24	6600.	C	IE.M
	6700.	C	IE.M
	6800.	C	IWEM
	6900.	C	ILEM
1.33	7000.	C	IEM
	7100.	C	IEM
	7200.	C	IEM
	7300.	C	IEM
	7400.	C	IE
1.41	7500.	C	IE

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     7700. C      ILE      .  .  .  .  .  .  .  .  .
     7800. C      IRE      .  .  .  .  .  .  .  .  .
     7900. C       IE      .  .  .  .  .  .  .  .  .
1.51 8000. C       IE      .  .  .  .  .  .  .  .  .
     8100. C      IEM      .  .  .  .  .  .  .  .  .
1.01 8200. .      IEM      .  .  .  .  .  .  .  .  .
     8300. C      IEM      .  .  .  .  .  .  .  .  .
1.02 8400. C      IEL      .  .  .  .  .  .  .  .  .
     8500. C      IRE      .  .  .  .  .  .  .  .  .
1.03 8600. C      IREM     .  .  .  .  .  .  .  .  .
     8700. C      .IEM     .  .  .  .  .  .  .  .  .
1.66 8800. C      .IEM     .  .  .  .  .  .  .  .  .
     8900. C      .IEMR    .  .  .  .  .  .  .  .  .
1.01 9000. .      .IEM   R .  .  .  .  .  .  .  .  .
     9100. C      .IWE   R .  .  .  .  .  .  .  .  .
1.02 9200. C      .ILE   R .  .  .  .  .  .  .  .  .
     9300. C      .ILE   R .  .  .  .  .  .  .  .  .
     9400. C      . IE   R .  .  .  .  .  .  .  .  .
1.78 9500. .      . IE   R .  .  .  .  .  .  .  .  .
     9600. C      . IEM R  .  .  .  .  .  .  .  .  .
     9700. C      . IEMR   .  .  .  .  .  .  .  .  .
1.01 9800. C      . IEM    .  .  .  .  .  .  .  .  .
     9900. C      . IE M   .  .  .  .  .  .  .  .  .
    10000. C      . IWEM   .  .  .  .  .  .  .  .  .
1.91 10100. C     . ILEM   .  .  .  .  .  .  .  .  .
    10200. C      .  IEM   .  .  .  .  .  .  .  .  .
    10300. C      .  IEM   .  .  .  .  .  .  .  .  .
    10400. C      .  IEM   .  .  .  .  .  .  .  .  .
    10500. C      .  IEM   .  .  .  .  .  .  .  .  .
    10600. C      .  IEM   .  .  .  .  .  .  .  .  .
    10700. C      .   IE   .  .  .  .  .  .  .  .  .
    10800. C      .   IE   .  .  .  .  .  .  .  .  .
    10900. C      .   IE   .  .  .  .  .  .  .  .  .
    11000. C      .   IE   .  .  .  .  .  .  .  .  .
    11100. C      .   IEM  .  .  .  .  .  .  .  .  .
    11200. C      .    WE  .  .  .  .  .  .  .  .  .
2.14 11300. C     .    IE  .  .  .  .  .  .  .  .  .
    11400. C      .    IE  .  .  .  .  .  .  .  .  .
    11500. C      .    IE  .  .  .  .  .  .  .  .  .
    11600. C      .    IE  .  .  .  .  .  .  .  .  .
    11700. C      .    IEM .  .  .  .  .  .  .  .  .
    11800. C      .    IEM .  .  .  .  .  .  .  .  .
    11900. C      .    IEM .  .  .  .  .  .  .  .  .
    12000. C      .     IE .  .  .  .  .  .  .  .  .
2.29 12100. C     .     IEM .  .  .  .  .  .  .  .  .
    12200. C      .     IEM .  .  .  .  .  .  .  .  .
    12300. C      .     IEM .  .  .  .  .  .  .  .  .
    12400. C      .     IEM .  .  .  .  .  .  .  .  .
    12500. C      .     IEM .  .  .  .  .  .  .  .  .
    12600. C      .      E M.  .  .  .  .  .  .  .  .
    12700. C      .      WEM.  .  .  .  .  .  .  .  .
    12800. C      .      IEM.  .  .  .  .  .  .  .  .
    12900. C      .      IEM.  .  .  .  .  .  .  .  .
    13000. C      .      IEM.  .  .  .  .  .  .  .  .
2.48 13100. C     .      IE M  .  .  .  .  .  .  .  .
    13200. C      .      IE M  .  .  .  .  .  .  .  .
    13300. C      .       E M  .  .  .  .  .  .  .  .
    13400. C      .       IEM  .  .  .  .  .  .  .  .
    13500. C      .       IEM  .  .  .  .  .  .  .  .
    13600. C      .       IEM  .  .  .  .  .  .  .  .
    13700. C      .       IEM  .  .  .  .  .  .  .  .
    13800. C      .       IEM  .  .  .  .  .  .  .  .
    13900. C      .       IEM  .  .  .  .  .  .  .  .
    14000. C      .       IWE  .  .  .  .  .  .  .  .
2.67 14100. C     .        IE  .  .  .  .  .  .  .  .
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     14300.  C        .        IE        .         .         .         .         .         .         .         .
     14400.  C        .        IE        .         .         .         .         .         .         .         .
     14500.  C        .        IEM       .         .         .         .         .         .         .         .
     14600.  C        .         EM       .         .         .         .         .         .         .         .
     14700.  C        .         IE       .         .         .         .         .         .         .         .
2.79 14800.  C        .         IE       .         .         .         .         .         .         .         .
     14900.  C        .         IE       .         .         .         .         .         .         .         .
     15000.  C        .         IE       .         .         .         .         .         .         .         .
     15100.  C        .         IEM      .         .         .         .         .         .         .         .
     15200.  C        .         IEM      .         .         .         .         .         .         .         .
     15300.  C        .         IWE      .         .         .         .         .         .         .         .
     15400.  C        .        .IE       .         .         .         .         .         .         .         .
     15500.  C        .        .IEM      .         .         .         .         .         .         .         .
2.94 15600.  C        .        .IEM      .         .         .         .         .         .         .         .
     15700.  C        .        .IEM      .         .         .         .         .         .         .         .
     15800.  C        .        .IEM      .         .         .         .         .         .         .         .
     15900.  C        .        .IEM      .         .         .         .         .         .         .         .
1.01 16000.  C        .        . WE      .         .         .         .         .         .         .         .
     16100.  C        .        . IE      .         .         .         .         .         .         .         .
     16200.  C        .        . IE      .         .         .         .         .         .         .         .
     16300.  C        .        . IE      .         .         .         .         .         .         .         .
     16400.  C        .        . IE      .         .         .         .         .         .         .         .
3.11 16500.  C        .        . IE      .         .         .         .         .         .         .         .
     16600.  C        .        . ILE     .         .         .         .         .         .         .         .
     16700.  C        .        .  IE     .         .         .         .         .         .         .         .
     16800.  C        .        .  IE     .         .         .         .         .         .         .         .
     16900.  C        .        .  IEM    .         .         .         .         .         .         .         .
     17000.  C        .        .  IEM    .         .         .         .         .         .         .         .
     17100.  C        .        .  IEM    .         .         .         .         .         .         .         .
     17200.  C        .        .  IWE    .         .         .         .         .         .         .         .
     17300.  C        .        .   IEM   .         .         .         .         .         .         .         .
3.28 17400.  C        .        .   IEM   .         .         .         .         .         .         .         .
     17500.  C        .        .   IEM   .         .         .         .         .         .         .         .
     17600.  C        .        .   IEM   .         .         .         .         .         .         .         .
     17700.  C        .        .   IE M  .         .         .         .         .         .         .         .
     17800.  C        .        .    IEM  .         .         .         .         .         .         .         .
     17900.  C        .        .    IEM  .         .         .         .         .         .         .         .
3.41 18000.  C        .        .    IE M .         .         .         .         .         .         .         .
     18100.  C        .        .    IE M .         .         .         .         .         .         .         .
     18200.  C        .        .     E M .         .         .         .         .         .         .         .
     18300.  C        .        .     WEM .         .         .         .         .         .         .         .
     18400.  C        .        .     IEM .         .         .         .         .         .         .         .
     18500.  C        .        .     IEM .         .         .         .         .         .         .         .
     18600.  C        .        .     IEM .         .         .         .         .         .         .         .
     18700.  C        .        .      EM .         .         .         .         .         .         .         .
3.56 18800.  C        .        .      EM .         .         .         .         .         .         .         .
     18900.  C        .        .      WE .         .         .         .         .         .         .         .
     19000.  C        .        .      IEM.         .         .         .         .         .         .         .
     19100.  C        .        .      IEM.         .         .         .         .         .         .         .
     19200.  C        .        .      IEM.         .         .         .         .         .         .         .
     19300.  C        .        .      IEM.         .         .         .         .         .         .         .
3.67 19400.  C        .        .       WE.         .         .         .         .         .         .         .
     19500.  C        .        .       IEM         .         .         .         .         .         .         .
     19600.  C        .        .       IEM         .         .         .         .         .         .         .
     19700.  C        .        .       IEM         .         .         .         .         .         .         .
     19800.  C        .        .       IEM         .         .         .         .         .         .         .
3.75 19900.  C        .        .       IEM         .         .         .         .         .         .         .
     20000.  C        .        .       IELM        .         .         .         .         .         .         .
     20100.  C        .        .        IELM       .         .         .         .         .         .         .
3.81 20200.  C        .        .        IE LM      .         .         .         .         .         .         .
     20300.  C        .        .        IE LM      .         .         .         .         .         .         .
     20400.  C        .        .        IE LM      .         .         .         .         .         .         .
     20500.  C        .        .        IEL M      .         .         .         .         .         .         .
     20600.  C        .        .         IE M      .         .         .         .         .         .         .
     20700.  C        .        .         IE M      .         .         .         .         .         .         .
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     20900.  C  .  .  IEM  .  .  .  .  .  .  .
     21000.  C  .  .  IWE  .  .  .  .  .  .  .
     21100.  C  .  .  .IEM  .  .  .  .  .  .  .
     21200.  C  .  .  .IEM  .  .  .  .  .  .  .
4.03 21300.  C  .  .  .IEM  .  .  .  .  .  .  .
     21400.  C  .  .  .IEM  .  .  .  .  .  .  .
     21500.  C  .  .  .IEM  .  .  .  .  .  .  .
     21600.  C  .  .  . IEM  .  .  .  .  .  .  .
     21700.  C  .  .  . IEM  .  .  .  .  .  .  .
     21800.  C  .  .  . IEM  .  .  .  .  .  .  .
     21900.  C  .  .  . IE M  .  .  .  .  .  .  .
4.16 22000.  C  .  .  . IE M  .  .  .  .  .  .  .
     22100.  C  .  .  . IE M  .  .  .  .  .  .  .
     22200.  C  .  .  . IWEM  .  .  .  .  .  .  .
     22300.  C  .  .  .  IEM  .  .  .  .  .  .  .
     22400.  C  .  .  .  IEM  .  .  .  .  .  .  .
     22500.  C  .  .  .  IE M  .  .  .  .  .  .  .
     22600.  C  .  .  .  IE M  .  .  .  .  .  .  .
4.29 22700.  C  .  .  .  IE M  .  .  .  .  .  .  .
     22800.  C  .  .  .  IWEM  .  .  .  .  .  .  .
     22900.  C  .  .  .   IEM  .  .  .  .  .  .  .
     23000.  C  .  .  .   IE M  .  .  .  .  .  .  .
     23100.  C  .  .  .   IE M  .  .  .  .  .  .  .
     23200.  C  .  .  .   IE M  .  .  .  .  .  .  .
     23300.  C  .  .  .   IE M  .  .  .  .  .  .  .
4.43 23400.  C  .  .  .   IWE M .  .  .  .  .  .  .
     23500.  C  .  .  .    IE M .  .  .  .  .  .  .
     23600.  C  .  .  .    IE M .  .  .  .  .  .  .
     23700.  C  .  .  .    IE M .  .  .  .  .  .  .
     23800.  C  .  .  .    IWE M.  .  .  .  .  .  .
     23900.  C  .  .  .     IE M.  .  .  .  .  .  .
     24000.  C  .  .  .     IE M.  .  .  .  .  .  .
4.55 24100.  C  .  .  .     IE M.  .  .  .  .  .  .
     24200.  C  .  .  .     IE M.  .  .  .  .  .  .
     24300.  C  .  .  .     IWE M  .  .  .  .  .  .
     24400.  C  .  .  .      IE M  .  .  .  .  .  .
     24500.  C  .  .  .      IE M  .  .  .  .  .  .
     24600.  C  .  .  .      IE M  .  .  .  .  .  .
     24700.  C  .  .  .      IE M  .  .  .  .  .  .
     24800.  C  .  .  .       WEM  .  .  .  .  .  .
4.72 24900.  C  .  .  .       IE.M  .  .  .  .  .  .
     25000.  C  .  .  .       IE.M  .  .  .  .  .  .
     25100.  C  .  .  .       IE.M  .  .  .  .  .  .
     25200.  C  .  .  .        WEM  .  .  .  .  .  .
     25300.  C  .  .  .        IE M  .  .  .  .  .  .
     25400.  C  .  .  .        IE M  .  .  .  .  .  .
     25500.  C  .  .  .        IE M  .  .  .  .  .  .
4.84 25600.  C  .  .  .        IE M  .  .  .  .  .  .
     25700.  C  .  .  .        IE  M  .  .  .  .  .  .
     25800.  C  .  .  .        IWE M  .  .  .  .  .  .
     25900.  C  .  .  .         IE M  .  .  .  .  .  .
4.91 26000.  C  .  .  .         IE M  .  .  .  .  .  .
     26100.  C  .  .  .         IE  M  .  .  .  .  .  .
     26200.  C  .  .  .         IER M  .  .  .  .  .  .
     26300.  C  .  .  .         IWERM  .  .  .  .  .  .
5.00 26400.  C  .  .  .         .IE R  .  .  .  .  .  .
     26500.  C  .  .  .         .IEL M  .  .  .  .  .  .
     26600.  C  .  .  .         .IE LM  .  .  .  .  .  .
5.04 26700.  C  .  .  .         .IE L M  .  .  .  .  .  .
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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#16 EAST

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	3480.00	1310.96	4669.00	4965.00	5020.00	5068.10	.00	399.10	7.46	1303.50	53.47	7.21
	.169	3480.00	1314.52	4897.90	4920.00	5135.00	5245.48	3.56	347.57	5.52	1309.00	25.28	3.78
*	.345	3719.00	1320.20	4868.19	4970.00	5040.00	5342.71	2.04	429.04	5.20	1315.00	95.23	8.13
	.541	3719.00	1326.40	4679.87	4970.00	5020.00	5100.03	6.21	420.17	6.40	1320.00	36.76	5.78
	.673	3958.00	1328.97	4913.65	4950.00	5020.00	5418.30	2.56	504.65	5.97	1323.00	33.48	4.84
*	.829	3958.00	1334.89	4866.93	4950.00	5030.00	5181.69	.97	314.76	7.89	1327.00	40.97	6.53
*	.946	4197.00	1339.81	4957.30	4950.00	5050.00	5042.70	1.65	85.40	9.81	1330.00	85.71	8.62
	.952	4535.00	1340.02	4956.58	4950.00	5050.00	5043.42	.22	86.84	10.02	1330.00	90.32	8.97
*	1.040	4535.00	1341.77	4537.87	4960.00	5030.00	5585.32	.15	757.67	8.77	1333.00	18.52	4.43
*	1.165	4217.00	1344.90	4888.72	4945.00	5025.00	5122.01	1.02	233.29	8.40	1336.50	41.34	6.74
	1.239	4217.00	1346.62	4935.53	4955.00	5020.00	5192.75	1.72	267.22	7.62	1339.00	29.28	5.27
	1.326	4217.00	1348.27	4942.62	4970.00	5060.00	5148.15	1.65	205.53	5.77	1342.50	76.83	7.64
	1.408	3898.00	1351.68	4741.02	4955.00	5025.00	5066.40	3.41	325.38	5.68	1346.00	74.28	7.16
	1.508	3405.00	1354.12	4969.39	4960.00	5035.00	5530.61	2.44	561.22	5.62	1348.50	22.11	3.15
*	1.659	2912.00	1359.16	4967.10	4965.00	5030.00	5611.09	1.08	386.02	5.66	1353.50	54.18	5.51
*	1.782	2912.00	1365.09	4559.27	4980.00	5030.00	5205.65	1.65	384.96	7.09	1358.00	124.24	9.52
*	1.912	2704.00	1367.66	4806.75	4990.00	5020.00	5590.79	.73	488.86	5.66	1362.00	74.74	7.13

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SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
2.139	2704.00	1378.12	4884.78	4970.00	5030.00	5378.28	10.45	493.50	4.12	1374.00	111.32	6.67
2.289	2704.00	1383.50	4929.39	4960.00	5020.00	5544.83	5.38	525.11	5.00	1378.50	44.51	5.20
2.478	2704.00	1390.15	4875.83	4970.00	5020.00	5391.91	6.65	469.28	3.65	1386.50	117.82	6.55
2.666	2495.00	1398.14	4914.29	4950.00	5030.00	5439.27	7.99	524.98	5.14	1393.00	56.99	5.30

2.789	2435.00	1403.47	4933.44	4970.00	5020.00	5447.34	5.33	513.90	3.97	1399.50	117.30	7.73
2.943	2286.00	1409.20	4892.04	4980.00	5015.00	5256.00	5.72	279.94	5.20	1404.00	46.40	6.08
* 3.111	2286.00	1416.90	4810.00	4985.00	5020.00	5032.12	4.60	222.12	5.90	1411.00	65.48	6.64
3.277	2286.00	1423.92	4940.77	4990.00	5010.00	5149.32	7.02	208.55	4.92	1419.00	109.01	8.35
3.406	2078.00	1430.03	4939.91	4950.00	5250.00	5287.62	6.10	225.60	4.03	1426.00	66.51	4.32
3.558	1657.00	1436.42	4720.35	4925.00	5040.00	5073.10	6.39	352.75	2.42	1434.00	116.14	5.23
3.669	1657.00	1442.14	4877.88	4950.00	5030.00	5043.36	5.72	165.47	4.14	1438.00	89.23	6.01
3.752	1657.00	1445.77	4958.91	4970.00	5045.00	5080.49	3.64	121.58	5.27	1440.50	77.93	6.06
3.809	1657.00	1448.44	4961.95	4915.00	5040.00	5041.29	2.67	79.34	4.44	1444.00	111.70	6.72
3.932	1657.00	1455.30	4926.71	4970.00	5015.00	5085.09	6.86	158.38	4.30	1451.00	98.89	7.19
4.033	1657.00	1459.94	4940.60	4975.00	5020.00	5039.66	4.64	99.06	4.94	1455.00	78.40	7.10
4.157	1654.00	1465.77	4941.68	4955.00	5030.00	5043.32	5.84	101.63	4.77	1461.00	101.40	6.59
4.290	1654.00	1471.29	4960.66	4975.00	5035.00	5053.44	5.51	92.78	5.29	1466.00	60.34	6.00
4.428	1654.00	1477.43	4941.66	4950.00	5010.00	5017.15	6.14	75.49	5.43	1472.00	141.33	7.95
4.549	1654.00	1484.65	4945.93	4975.00	5010.00	5021.63	7.22	75.70	5.15	1479.50	90.37	8.15
4.716	1654.00	1494.13	4936.72	4950.00	5020.00	5035.94	9.48	99.22	4.13	1490.00	131.74	7.28
4.837	1654.00	1500.67	4903.32	4980.00	5010.00	5031.67	6.53	128.35	4.67	1496.00	73.86	7.13
4.915	1650.00	1503.78	4965.27	4970.00	5020.00	5034.20	3.12	68.93	4.78	1499.00	87.38	7.33
4.998	1650.00	1508.58	4894.15	4910.00	5050.00	5014.30	4.79	120.15	4.58	1504.00	127.96	6.22
5.044	1650.00	1511.28	4872.72	4940.00	5040.00	5089.12	2.70	116.40	4.28	1507.00	93.88	6.46

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .345 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .829 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .946 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.040 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.165 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.659 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.782 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 1.912 PROFILE= 1 INTERPOLATED XSECTIONS USED

THIS RUN EXECUTED 05/05/88 13:18:46

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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INPUT FILE: CAP17EST
OUTPUT FILE: CAP17EST.OUT

THIS RUN EXECUTED 05/05/88 14:07:44

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR EVENT.  17TH PIPE OVERCHUTE EAST OF GRAND AVENUE.
T3      CAP FLOODPLAIN-#17 EAST

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        0.        0.        0.   .010500      .00       .0      495.   1428.000     .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    -1.000     .000      .000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000    43.000     1.000    53.000    21.000    22.000    54.000    51.000     4.000     8.000


    42.000     5.000    26.000      .000      .000      .000      .000      .000      .000      .000
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Below Confluence = 16 EAST

```
NC      .090      .090      .050      .100      .300      .000      .000      .000      .000      .000
X1      .000     15.000  4950.000  5275.000      .000      .000      .000      .000      .000      .000
GR   1440.000  4585.000  1436.000  4890.000  1432.000  4930.000  1428.000  4950.000  1426.500  5000.000
GR   1428.000  5055.000  1432.000  5100.000  1435.000  5160.000  1432.000  5180.000  1428.000  5220.000
GR   1426.000  5250.000  1428.000  5275.000  1432.000  5300.000  1436.000  5420.000  1438.000  5550.000
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ABOVE

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X1      .197     7.000  4860.000  5020.000   360.000  1000.000  1040.000      .000      .000      .000
GR   1446.000  4720.000  1444.000  4770.000  1440.000  4860.000  1437.000  5000.000  1440.000  5020.000
GR   1444.000  5035.000  1446.000  5095.000      .000      .000      .000      .000      .000      .000

X1      .326     9.000  4935.000  5025.000   620.000   630.000   690.000      .000      .000      .000
GR   1455.000  4825.000  1452.000  4870.000  1448.000  4935.000  1444.000  4950.000  1443.500  5000.000
GR   1444.000  5010.000  1448.000  5025.000  1452.000  5210.000  1456.000  5300.000      .000      .000

X1      .411     9.000  4970.000  5015.000   445.000   455.000   450.000      .000      .000      .000
GR   1460.000  4925.000  1456.000  4960.000  1452.000  4970.000  1448.000  4985.000  1447.500  5000.000
GR   1448.000  5010.000  1452.000  5015.000  1456.000  5035.000  1460.000  5080.000      .000      .000

X1      .493    12.000  4970.000  5025.000   440.000   410.000   430.000      .000      .000      .000
GR   1472.000  4860.000  1468.000  4925.000  1460.000  4970.000  1456.000  5000.000  1460.000  5025.000
GR   1464.000  5050.000  1464.500  5070.000  1462.500  5210.000  1464.000  5290.000  1466.000  5350.000
GR   1468.000  5400.000  1472.000  5440.000      .000      .000      .000      .000      .000      .000
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X1       .605      7.000  4970.000  5020.000   605.000   590.000   595.000      .000      .000      .000
GR   1472.000   4930.000  1468.000  4950.000  1464.000  4970.000  1461.500  5000.000  1464.000  5020.000
GR   1468.000   5090.000  1472.000  5130.000      .000      .000      .000      .000      .000      .000

X1       .693      9.000  4965.000  5025.000   460.000   470.000   465.000      .000      .000      .000
X2    435.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1480.000   4750.000  1476.000  4810.000  1472.000  4870.000  1468.000  4965.000  1467.000  5000.000
GR   1468.000   5025.000  1472.000  5055.000  1476.000  5070.000  1480.000  5115.000      .000      .000

X1       .779      7.000  4975.000  5020.000   440.000   480.000   450.000      .000      .000      .000
GR   1480.000   4960.000  1476.000  4975.000  1472.000  4990.000  1471.000  5000.000  1472.000  5010.000
GR   1476.000   5020.000  1480.000  5035.000      .000      .000      .000      .000      .000      .000

X1       .837      9.000  4990.000  5020.000   310.000   310.000   310.000      .000      .000      .000
GR   1488.000   4830.000  1484.000  4900.000  1480.000  4950.000  1476.000  4990.000  1475.000  5000.000
GR   1476.000   5020.000  1480.000  5050.000  1484.000  5060.000  1486.000  5090.000      .000      .000

X1       .954      9.000  4965.000  5030.000   615.000   615.000   615.000      .000      .000      .000
GR   1496.000   4880.000  1492.000  4950.000  1488.000  4965.000  1484.000  4980.000  1482.000  5000.000
GR   1484.000   5020.000  1488.000  5030.000  1492.000  5040.000  1496.000  5065.000      .000      .000

X1      1.046      8.000  4990.000  5010.000   480.000   480.000   480.000      .000      .000      .000
X2    375.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1507.000   4900.000  1504.000  4960.000  1492.000  4990.000  1489.000  5000.000  1492.000  5010.000
GR   1500.000   5035.000  1504.000  5050.000  1508.000  5080.000      .000      .000      .000      .000

X1      1.110      9.000  4990.000  5025.000   340.000   340.000   340.000      .000      .000      .000
GR   1512.000   4915.000  1508.000  4950.000  1504.000  4970.000  1500.000  4990.000  1496.000  4995.000
GR   1494.000   5000.000  1496.000  5015.000  1500.000  5025.000  1512.000  5055.000      .000      .000
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Overshote

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X1      1.171      7.000  4975.000  5020.000   320.000   320.000   320.000      .000      .000      .000
GR   1522.000   4865.000  1520.000  4950.000  1508.000  4975.000  1508.000  5000.000  1508.000  5020.000
GR   1520.000   5045.000  1523.000  5185.000      .000      .000      .000      .000      .000      .000
EJ       .000       .000      .000      .000      .000      .000      .000      .000      .000      .000
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST

*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000

3265 DIVIDED FLOW

     .00     2.18  1428.18      .00  1428.00  1429.32      .14      .00      .00  1428.00
    495.       0.     495.       0.       0.     163.       0.       0.       0.  1428.00
     .00      .02     3.03      .34     .090     .050     .090     .000  1426.00  4949.09
 .010475       0.       0.       0.        0        0        5      .00   165.92  5276.14
0
LOW DISTRIBUTION FOR SECNO=      .00          CWSEL=   1428.18

STA=    4949.    4950.    5275.    5276.
  PER Q=      .0    100.0       .0
   AREA=      .1    163.3       .1
    VEL=      .0      3.0       .3

*SECNO  .197
```

```
      495.      0.     495.      0.      0.     144.      0.      4.      3.   1440.00
       .08     .00     3.44     .00    .030     .050    .030    .000  1437.00  4891.63
   .011014    960.    1040.   1000.       4        0       0     .00   123.85  5015.48
0
 FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1439.32

 STA=    4892.    5020.
   PER Q=    100.0
    AREA=    143.8
     VEL=      3.4

 *SECNO  .326
       .33     3.04  1446.54     .00     .00  1446.54     .30     7.30     .03  1448.00
      495.      0.     495.      0.      0.     113.      0.      6.      5.   1448.00
       .13     .00     4.39     .00    .030     .050    .030    .000  1443.50  4954.97
   .010475    620.     680.    630.       4        0       0     .00    64.59  5019.55
0
 FLOW DISTRIBUTION FOR SECNO=       .33          CWSEL=   1446.54

 STA=    4955.    5025.
   PER Q=    100.0
    AREA=    112.8
     VEL=      4.4

1
  05/05/88    14:07:43                                                                PAGE    4


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .411
       .41     3.34  1450.84     .00     .00  1451.24     .40     4.37     .03  1452.00
      495.      0.     495.      0.      0.      98.      0.      7.      5.   1452.00
       .15     .00     5.07     .00    .030     .050    .030    .000  1447.50  4974.32
   .009015    445.     450.    455.       3        0       0     .00    39.24  5013.56
0
 FLOW DISTRIBUTION FOR SECNO=       .41          CWSEL=   1450.84

 STA=    4974.    5015.
   PER Q=    100.0
    AREA=     97.7
     VEL=      5.1

 *SECNO  .493
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
       .49     3.16  1459.16  1459.16     .00  1459.97     .81     6.67     .12  1460.00
      495.      0.     495.      0.      0.      68.      0.      8.      6.   1460.00
       .17     .00     7.23     .00    .030     .050    .030    .000  1456.00  4976.34
   .032711    440.     430.    410.      12       11       0     .00    43.38  5019.72
0
 FLOW DISTRIBUTION FOR SECNO=       .49          CWSEL=   1459.16

 STA=    4976.    5025.
   PER Q=    100.0
    AREA=     68.4
     VEL=      7.2

 *SECNO  .605

 3301 HV CHANGED MORE THAN HVINS
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      .61     3.83  1465.35      .00      .00  1465.55      .20     5.52      .06  1464.00
     495.       4.     478.       13.       5.     130.      16.       9.       7.  1464.00
      .21      .82     3.68      .83     .090     .050     .090     .000  1461.50  4963.25
   .004312     605.     595.     590.        7        0        0      .00    80.37  5043.62
0
 FLOW DISTRIBUTION FOR SECNO=       .61          CWSEL=   1465.35

 STA=    4963.    4970.    5020.    5044.
   PER Q=       .8     96.6      2.7
    AREA=      4.6    130.0     15.9
     VEL=       .8      3.7       .8

1
  05/05/88    14:07:43                                                                    PAGE    5

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO  .693
      .69     1.83  1468.83      .00      .00  1469.25      .41     3.63      .06  1468.00
     435.       11.     420.       3.       8.      80.       3.      10.       8.  1468.00
      .24     1.34     5.25     1.34     .090     .050     .090     .000  1467.00  4945.19
   .021287     460.     465.     470.        4        0        0      .00    86.06  5031.25
0
 FLOW DISTRIBUTION FOR SECNO=       .69          CWSEL=   1468.83

 STA=    4945.    4965.    5025.    5031.
   PER Q=      2.6     96.6       .8
    AREA=      8.3     80.0      2.6
     VEL=      1.3      5.3      1.3

 *SECNO  .779
      .78     3.76  1474.76      .00      .00  1475.13      .37     5.87      .00  1476.00
     435.       0.     435.       0.       0.      89.       0.      11.       8.  1476.00
      .27      .00     4.90      .00     .090     .050     .090     .000  1471.00  4979.67
   .008816     440.     450.     480.        3        0        0      .00    37.22  5016.89
0
 FLOW DISTRIBUTION FOR SECNO=       .78          CWSEL=   1474.76

 STA=    4980.    5020.
   PER Q=    100.0
    AREA=     88.8
     VEL=      4.9

 *SECNO  .837
      .84     2.82  1477.82      .00      .00  1478.25      .43     3.10      .02  1476.00
     435.       27.     387.      20.      17.      70.      12.      12.       9.  1476.00
      .28     1.65     5.57     1.65     .090     .050     .090     .000  1475.00  4971.81
   .011464     310.     310.     310.        3        0        0      .00    61.83  5033.64
0
 FLOW DISTRIBUTION FOR SECNO=       .84          CWSEL=   1477.82

 STA=    4972.    4990.    5020.    5034.
   PER Q=      6.3     89.0      4.7
    AREA=     16.5     69.6     12.4
     VEL=      1.7      5.6      1.6

1
  05/05/88    14:07:43                                                                    PAGE    6
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   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO  .954
      .95     3.11  1485.11      .00      .00  1485.49      .38     7.23      .01  1488.00
     435.       0.     435.       0.       0.      88.       0.      13.       9.  1488.00
      .32      .00     4.93      .00     .090     .050     .090     .000  1482.00  4975.84
  .012068     615.     615.     615.        3        0        0      .00    46.93  5022.77
0
 FLOW DISTRIBUTION FOR SECNO=      .95          CWSEL=   1485.11

 STA=    4976.    5030.
   PER Q=    100.0
    AREA=     88.2
     VEL=      4.9

 *SECNO 1.046

 3301 HV CHANGED MORE THAN HVING

     1.05     3.76  1492.76  1492.72      .00  1493.81     1.05     8.12      .20  1492.00
     375.       1.     373.       1.       1.      45.       1.      14.      10.  1492.00
      .33     1.37     8.23     1.39     .090     .050     .090     .000  1489.00  4988.09
  .027354     480.     480.     480.       11       11        0      .00    24.29  5012.39
0
 FLOW DISTRIBUTION FOR SECNO=     1.05          CWSEL=   1492.76

 STA=    4988.    4990.    5010.    5012.
   PER Q=      .3     99.4       .3
    AREA=      .7     45.3       .9
     VEL=     1.4      8.2      1.4

 *SECNO 1.110

 3301 HV CHANGED MORE THAN HVING

     1.11     4.26  1498.26      .00      .00  1498.65      .39     4.78      .07  1500.00
     375.       0.     375.       0.       0.      75.       0.      14.      10.  1500.00
      .35      .00     5.02      .00     .090     .050     .090     .000  1494.00  4992.18
  .008541     340.     340.     340.        4        0        0      .00    28.46  5020.64
0
 FLOW DISTRIBUTION FOR SECNO=     1.11          CWSEL=   1498.26

 STA=    4992.    5025.
   PER Q=    100.0
    AREA=     74.7
     VEL=      5.0

1
 05/05/88    14:07:43                                                                  PAGE    7


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 1.171

 3301 HV CHANGED MORE THAN HVING

 7185 MINIMUM SPECIFIC ENERGY
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SECO CRITICAL DEPTH ASSUMED
     1.17     4.04  1504.04  1504.04      .00  1505.08     1.04     4.76      .19  1508.00
     375.       0.     375.       0.       0.      46.       0.      15.      10.   1508.00
      .36      .00     8.19      .00     .090     .050     .090     .000  1500.00  4987.38
  .032144     320.     320.     320.        3       11        0      .00    22.71  5010.09
0
FLOW DISTRIBUTION FOR SECNO=      1.17          CWSEL=   1504.04

STA=    4987.    5020.
  PER Q=    100.0
   AREA=     45.9
    VEL=      8.2

1
PROFILE FOR STREAM  CAP FLOODPLAIN-#17 EAST


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1420.     1440.     1460.     1480.     1500.     1520.     1540.     1560.     1580.     1600.
    SECNO   CUMDIS

      .00      0.  C  IE    M.        .         .         .         .         .         .         .         .
            50.  C  IE    M.        .         .         .         .         .         .         .         .
           100.  C   IE   M.        .         .         .         .         .         .         .         .
           150.  C   IE    M        .         .         .         .         .         .         .         .
           200.  C   IE    M        .         .         .         .         .         .         .         .
           250.  C   IWE   M        .         .         .         .         .         .         .         .
           300.  C    IE   M        .         .         .         .         .         .         .         .
           350.  C    IE   M        .         .         .         .         .         .         .         .
           400.  C    IE  .M        .         .         .         .         .         .         .         .
           450.  C    I E .M        .         .         .         .         .         .         .         .
           500.  C     IE .M        .         .         .         .         .         .         .         .
           550.  C     IE .M        .         .         .         .         .         .         .         .
           600.  C     IE .M        .         .         .         .         .         .         .         .
           650.  C     I E. M       .         .         .         .         .         .         .         .
           700.  C      IE. M       .         .         .         .         .         .         .         .
           750.  C      IE. M       .         .         .         .         .         .         .         .
           800.  C      IEL. M      .         .         .         .         .         .         .         .
           850.  C      I E. M      .         .         .         .         .         .         .         .
           900.  C       IE. M      .         .         .         .         .         .         .         .
           950.  C       IE.  M     .         .         .         .         .         .         .         .
          1000.  C       IWE  M     .         .         .         .         .         .         .         .
      .20 1050.  C        IE  M     .         .         .         .         .         .         .         .
          1100.  C        IE  M     .         .         .         .         .         .         .         .
          1150.  C        IEL  M    .         .         .         .         .         .         .         .
          1200.  C        IWE  M    .         .         .         .         .         .         .         .
          1250.  C        I.E  M    .         .         .         .         .         .         .         .
          1300.  C         IE   M   .         .         .         .         .         .         .         .
          1350.  C         IEL  M   .         .         .         .         .         .         .         .
          1400.  C         I E  M   .         .         .         .         .         .         .         .
          1450.  C         I E   M  .         .         .         .         .         .         .         .
          1500.  C         .IEL  M  .         .         .         .         .         .         .         .
          1550.  C         .IEL  M  .         .         .         .         .         .         .         .
          1600.  C         .I E   M .         .         .         .         .         .         .         .
          1650.  C         .I EL  M .         .         .         .         .         .         .         .
          1700.  C         . IEL  M .         .         .         .         .         .         .         .
      .33 1750.  C         . IEL   M.         .         .         .         .         .         .         .
          1800.  C         . I E   M.         .         .         .         .         .         .         .
          1850.  C         . I E   M.         .         .         .         .         .         .         .
          1900.  C         . I EL  M.         .         .         .         .         .         .         .
          1950.  C         .  IEL   M.        .         .         .         .         .         .         .
          2000.  C         .  IWE   M.        .         .         .         .         .         .         .
          2050.  C         .  I E   M.        .         .         .         .         .         .         .
```

```
     2150. C        .  IEL  M        .        .        .        .        .        .        .        .
.41  2200. C        .  IWE  M        .        .        .        .        .        .        .        .
     2250. C        .  I E  .M       .        .        .        .        .        .        .        .
     2300. C        .   IWE .M       .        .        .        .        .        .        .        .
     2350. C        .   I E . M      .        .        .        .        .        .        .        .
     2400. C        .   IWE .  M     .        .        .        .        .        .        .        .
     2450. C        .   I E .  M     .        .        .        .        .        .        .        .
     2500. C        .    IWE.   M    .        .        .        .        .        .        .        .
     2550. C        .    I E.    M   .        .        .        .        .        .        .        .
.49  2600. .        .     I E    M   .        .        .        .        .        .        .        .
     2650. C        .     I E    M   .        .        .        .        .        .        .        .
     2700. C        .     I E    M   .        .        .        .        .        .        .        .
     2750. C        .      IWE   M   .        .        .        .        .        .        .        .
     2800. C        .      I.E   M   .        .        .        .        .        .        .        .
     2850. C        .      I.E   M   .        .        .        .        .        .        .        .
     2900. C        .      I.E   M   .        .        .        .        .        .        .        .
     2950. C        .       IWE  M   .        .        .        .        .        .        .        .
     3000. C        .       ILE  M   .        .        .        .        .        .        .        .
     3050. C        .       I E  M   .        .        .        .        .        .        .        .
     3100. C        .       I E  M   .        .        .        .        .        .        .        .
     3150. C        .       .IWE M   .        .        .        .        .        .        .        .
.61  3200. C        .       .ILE M   .        .        .        .        .        .        .        .
     3250. C        .       .ILE M   .        .        .        .        .        .        .        .
     3300. C        .       .ILE  M  .        .        .        .        .        .        .        .
     3350. C        .       . IE  M  .        .        .        .        .        .        .        .
     3400. C        .       . IWE  M .        .        .        .        .        .        .        .
     3450. C        .       . ILE  M .        .        .        .        .        .        .        .
     3500. C        .       .  IE   M.        .        .        .        .        .        .        .
     3550. C        .       .  IE   M.        .        .        .        .        .        .        .
     3600. C        .       .  IE   M.        .        .        .        .        .        .        .
     3650. C        .       .  IWE   M        .        .        .        .        .        .        .
.69  3700. C        .       .   WE   M        .        .        .        .        .        .        .
     3750. C        .       .  IE   M         .        .        .        .        .        .        .
     3800. C        .       .  IE   M         .        .        .        .        .        .        .
     3850. C        .       .  IWE  M         .        .        .        .        .        .        .
     3900. C        .       .  I E  M         .        .        .        .        .        .        .
     3950. C        .       .   IE  M         .        .        .        .        .        .        .
     4000. C        .       .   IWE M         .        .        .        .        .        .        .
     4050. C        .       .   I E M         .        .        .        .        .        .        .
     4100. C        .       .   I EL M        .        .        .        .        .        .        .
.78  4150. C        .       .    IWE M        .        .        .        .        .        .        .
     4200. C        .       .    I E M        .        .        .        .        .        .        .
     4250. C        .       .    I E .M       .        .        .        .        .        .        .
     4300. C        .       .    I E .M       .        .        .        .        .        .        .
     4350. C        .       .     IWE. M      .        .        .        .        .        .        .
     4400. C        .       .     ILE. M      .        .        .        .        .        .        .
.84  4450. C        .       .      IE.  M     .        .        .        .        .        .        .
     4500. C        .       .      IE.  M     .        .        .        .        .        .        .
     4550. C        .       .      ILE  M     .        .        .        .        .        .        .
     4600. C        .       .      ILE  M     .        .        .        .        .        .        .
     4650. C        .       .       IE   M    .        .        .        .        .        .        .
     4700. C        .       .       IWE  M    .        .        .        .        .        .        .
     4750. C        .       .       I.E  M    .        .        .        .        .        .        .
     4800. C        .       .       I.E   M   .        .        .        .        .        .        .
     4850. C        .       .        IEL  M   .        .        .        .        .        .        .
     4900. C        .       .        I E   M  .        .        .        .        .        .        .
     4950. C        .       .        I EL  M  .        .        .        .        .        .        .
     5000. C        .       .        .IEL  M  .        .        .        .        .        .        .
.95  5050. C        .       .        .I EL  M .        .        .        .        .        .        .
     5100. C        .       .        .I EL   M.        .        .        .        .        .        .
     5150. C        .       .        . IWE   M.        .        .        .        .        .        .
     5200. C        .       .        . I EL   M        .        .        .        .        .        .
     5250. C        .       .        . I EL   M        .        .        .        .        .        .
     5300. C        .       .        .  I E   .M       .        .        .        .        .        .
     5350. C        .       .        .  I E   .M       .        .        .        .        .        .
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        5450.  C      .      .      .  I E  .  M    .      .      .      .      .      .
        5500.  C      .      .      .  I WE .  M    .      .      .      .      .      .
   1.05 5550.  .      .      .      .  IWE  .  M    .      .      .      .      .      .
        5600.  C      .      .      .  I E  .  M    .      .      .      .      .      .
        5650.  C      .      .      .  I WE .  M    .      .      .      .      .      .
        5700.  C      .      .      .   I E .  M    .      .      .      .      .      .
        5750.  C      .      .      .   I E .  M    .      .      .      .      .      .
        5800.  C      .      .      .   I WE.  M    .      .      .      .      .      .
        5850.  C      .      .      .    I EL   M   .      .      .      .      .      .
   1.11 5900.  C      .      .      .    I EL   M   .      .      .      .      .      .
        5950.  C      .      .      .    I  EL   M  .      .      .      .      .      .
        6000.  C      .      .      .     I EL    M .      .      .      .      .      .
        6050.  C      .      .      .     I WEL   M .      .      .      .      .      .
        6100.  C      .      .      .      I.E L   M.      .      .      .      .      .
        6150.  C      .      .      .      I.WEL    M      .      .      .      .      .
   1.17 6200.  .      .      .      .       I WEL   .M     .      .      .      .      .
1
 05/05/88    14:07:43                                                                PAGE    8
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THIS RUN EXECUTED 05/05/88 14:08:15

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#17 EAST

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	435.00	1428.18	4949.09	4950.00	5275.00	5276.14	.00	165.92	2.18	1426.00	104.75	3.03
	.197	435.00	1439.32	4891.63	4860.00	5020.00	5015.48	11.14	123.85	2.32	1437.00	110.14	3.44
	.326	435.00	1446.54	4954.97	4935.00	5025.00	5019.55	7.22	64.59	3.04	1443.50	104.75	4.39
	.411	435.00	1450.84	4974.32	4970.00	5015.00	5013.56	4.30	39.24	3.34	1447.50	90.15	5.07
*	.493	435.00	1459.16	4976.34	4970.00	5025.00	5019.72	8.31	43.38	3.16	1456.00	327.11	7.23
	.605	435.00	1465.35	4963.25	4970.00	5020.00	5043.62	6.19	80.37	3.85	1461.50	43.12	3.68
	.693	435.00	1468.83	4945.19	4965.00	5025.00	5031.25	3.49	86.06	1.83	1467.00	212.87	5.25
	.779	435.00	1474.76	4979.67	4975.00	5020.00	5016.89	5.92	37.22	3.76	1471.00	88.16	4.90
	.837	435.00	1477.82	4971.81	4990.00	5020.00	5033.64	3.06	61.83	2.82	1475.00	114.64	5.57
	.954	435.00	1485.11	4975.84	4965.00	5030.00	5022.77	7.29	46.93	3.11	1482.00	120.68	4.93
	1.046	375.00	1492.76	4988.09	4990.00	5010.00	5012.39	7.65	24.29	3.76	1489.00	273.54	8.23
	1.110	375.00	1498.26	4992.18	4990.00	5025.00	5020.64	5.50	28.46	4.26	1494.00	85.41	5.02

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=     .493  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .493  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.171  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.171  PROFILE= 1  MINIMUM SPECIFIC ENERGY
```


THIS RUN EXECUTED 05/05/88 14:08:18

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

INPUT FILE: PADELWSH

OUTPUT FILE: PADELWSH.OUT

THIS RUN EXECUTED 05/26/88 11:43:20

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      WITTMANN ADMS
T2      HEC-2 FLOODPLAIN ANALYSIS  (100 YEAR EVENT)
T3      PADELFORD WASH

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        0.        0.        0.   .006400      .00       .5     2714.  1322.000      .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    -1.000     .000      .000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000    43.000     1.000    53.000    21.000    22.000    54.000    51.000     4.000     8.000


    42.000     5.000    26.000      .000      .000      .000      .000      .000      .000      .000


NC      .070      .070      .070      .100      .300      .000      .000      .000      .000      .000
X1      .000     12.000  4825.000  5300.000      .000      .000      .000      .000      .000      .000
GR  1320.000  3620.000  1317.100  3975.000  1317.100  4390.000  1320.000  4720.000  1320.000  4825.000
GR  1317.000  5000.000  1318.000  5060.000  1320.000  5300.000  1320.000  5650.000  1320.000  5850.000
GR  1318.000  6000.000  1320.000  6700.000      .000      .000      .000      .000      .000      .000

X1      .203     10.000  4930.000  5590.000  1030.000  1010.000  1070.000      .000      .000      .000
GR  1326.500  4505.000  1324.500  4640.000  1326.000  4790.000  1325.000  4930.000  1324.000  5000.000
GR  1325.000  5150.000  1325.000  5210.000  1326.000  5590.000  1324.000  6005.000  1327.000  6085.000

X1      .371     17.000  4840.000  5575.000   940.000   960.000   890.000      .000      .000      .000
GR  1333.000  4630.000  1332.000  4740.000  1332.000  4840.000  1331.000  4880.000  1330.000  5000.000
GR  1332.000  5300.000  1331.000  5420.000  1332.000  5575.000  1333.000  5630.000  1332.000  5660.000
GR  1332.500  5800.000  1332.000  5830.000  1332.500  5960.000  1332.000  6040.000  1332.500  6120.000
GR  1332.000  6220.000  1334.000  6455.000      .000      .000      .000      .000      .000      .000

NC      .000      .000      .000      .300      .500      .000      .000      .000      .000      .000
X1      .523     21.000  4965.000  5035.000   750.000   630.000   700.000      .000      .000      .000
X2  2640.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
X3    10.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR  1338.000  4270.000  1336.000  4315.000  1335.500  4390.000  1335.500  4500.000  1336.000  4570.000
GR  1337.000  4660.000  1336.000  4770.000  1335.200  4830.000  1336.000  4870.000  1337.000  4905.000
GR  1336.000  4965.000  1335.000  5000.000  1336.000  5035.000  1338.000  5100.000  1336.000  5230.000
GR  1337.000  5280.000  1336.000  5320.000  1335.500  5425.000  1335.100  5595.000  1336.000  5820.000
GR  1338.000  5920.000      .000      .000      .000      .000      .000      .000      .000      .000
```

NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	.609	5.000	4945.000	5060.000	440.000	460.000	450.000	.000	.000	.000
GR	1343.500	4945.000	1337.000	4970.000	1337.000	5000.000	1337.000	5030.000	1343.500	5060.000
X1	.614	5.000	4945.000	5060.000	30.000	30.000	30.000	.000	.000	.000
X2	2815.000	1342.150	.000	.000	.000	.000	.000	.000	.000	.000
GR	1343.500	4945.000	1337.000	4970.000	1337.000	5000.000	1337.000	5030.000	1343.500	5060.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	.741	10.000	4620.000	5040.000	560.000	900.000	670.000	.000	.000	.000
X2	2567.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1345.100	4590.000	1340.000	4620.000	1340.000	4660.000	1343.000	4770.000	1342.000	4950.000
GR	1340.500	5000.000	1344.000	5040.000	1342.500	5110.000	1344.000	5375.000	1345.100	5460.000
X1	.884	11.000	4815.000	5095.000	900.000	650.000	760.000	.000	.000	.000
GR	1349.200	4815.000	1349.000	4815.000	1349.000	4815.000	1349.000	4815.000	1348.000	4955.000
GR	1346.000	5000.000	1348.000	5020.000	1349.000	5095.000	1348.000	5220.000	1348.000	5340.000
GR	1350.000	5650.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.011	7.000	4955.000	5025.000	840.000	650.000	740.000	.000	.000	.000
GR	1355.800	4615.000	1352.000	4955.000	1350.500	5000.000	1352.000	5025.000	1355.000	5140.000
GR	1354.500	5290.000	1356.000	5340.000	.000	.000	.000	.000	.000	.000
X1	1.136	5.000	4975.000	5020.000	660.000	660.000	660.000	.000	.000	.000
GR	1359.000	4720.000	1356.000	4975.000	1354.000	5000.000	1356.000	5020.000	1360.000	5325.000
X1	1.273	8.000	4950.000	5050.000	720.000	700.000	710.000	.000	.000	.000
X2	2493.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1364.000	4460.000	1362.000	4715.000	1362.000	4950.000	1360.000	4980.000	1359.000	5000.000
GR	1360.000	5020.000	1364.000	5050.000	1366.000	5150.000	.000	.000	.000	.000
X1	1.453	13.000	4850.000	5050.000	750.000	910.000	950.000	.000	.000	.000
GR	1369.500	4225.000	1368.000	4440.000	1368.500	4590.000	1368.000	4650.000	1368.500	4790.000
GR	1368.500	4850.000	1368.000	4905.000	1366.000	5000.000	1368.000	5020.000	1368.500	5050.000
GR	1366.000	5090.000	1368.000	5130.000	1371.500	5255.000	.000	.000	.000	.000
X1	1.621	9.000	4945.000	5060.000	900.000	880.000	890.000	.000	.000	.000
X2	2420.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1378.000	3940.000	1376.000	4040.000	1375.000	4300.000	1374.000	4590.000	1376.000	4820.000
GR	1376.000	4945.000	1373.000	5000.000	1376.000	5060.000	1377.000	5110.000	.000	.000
NC	.070	.050	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.818	13.000	4950.000	5195.000	1040.000	1050.000	1040.000	.000	.000	.000
GR	1385.500	4560.000	1384.000	4625.000	1382.000	4780.000	1382.000	4780.000	1382.000	4780.000
GR	1384.000	4890.000	1384.000	4950.000	1381.000	5000.000	1384.000	5040.000	1383.000	5195.000
GR	1382.500	5300.000	1384.000	5360.000	1388.000	5510.000	.000	.000	.000	.000
X1	2.021	10.000	4780.000	5740.000	1100.000	1040.000	1070.000	.000	.000	.000
X2	1409.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1393.000	4780.000	1392.000	4840.000	1388.000	5000.000	1391.000	5070.000	1390.500	5200.000
GR	1390.000	5275.000	1391.000	5400.000	1390.500	5520.000	1392.000	5600.000	1393.000	5740.000

NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.159	7.000	4835.000	5130.000	900.000	640.000	730.000	.000	.000	.000
GR	1400.000	4600.000	1396.000	4715.000	1396.000	4765.000	1397.000	4835.000	1395.500	5000.000
GR	1396.000	5130.000	1400.000	5490.000	.000	.000	.000	.000	.000	.000

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X1      2.333      4.000   4920.000   5060.000    990.000    870.000    920.000       .000       .000       .000
GR   1408.000   4920.000   1404.000   4975.000   1404.000   5010.000   1408.000   5050.000       .000       .000
EJ       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
 05/26/88    11:43:20                                                                                    PAGE    4


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000

3265 DIVIDED FLOW

      .00     1.82  1318.82      .00  1322.00  1318.88      .06      .00      .00  1320.00
    2714.    2262.     313.     133.     1063.     216.     143.       0.       0.  1320.00
      .00     2.13     1.47      .93     .070     .070     .070     .000  1317.00  3764.47
  .006320       0.       0.       0.        0        0        6      .00  1434.20  6286.94
0
FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1318.82

STA=    3764.    3975.    4390.    4586.    5300.    6000.    6287.
  PER Q=     10.2     63.7      9.5     11.7       .9      4.0
  AREA=    181.0    713.7    168.3    216.1     25.2    117.6
   VEL=      1.5      2.4      1.5      1.5       .9       .9

*SECNO  .203
      .20     2.10  1326.10      .00      .00  1326.16      .05     7.27      .00  1325.00
    2714.     472.     1207.    1036.     300.     649.     518.     34.      35.  1326.00
      .15     1.57     1.86     2.00     .070     .070     .070     .000  1324.00  4531.66
  .007829    1030.     1070.    1010.        5        0        0      .00  1529.48  6061.14
0
FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1326.10

STA=    4532.    4640.    4790.    4930.    5590.    6005.    6061.
  PER Q=      5.2      8.0      4.2     44.5     33.9      4.2
  AREA=     87.0    128.3     84.7    649.4    458.6     59.1
   VEL=      1.6      1.7      1.3      1.9      2.0      1.9

*SECNO  .371

3265 DIVIDED FLOW

      .37     2.61  1332.61      .00      .00  1332.68      .07     6.52      .00  1332.00
    2714.      91.     2421.     201.      81.     1086.     236.     65.      68.  1332.00
      .29     1.12     2.23      .95     .070     .070     .070     .000  1330.00  4672.90
  .006558     940.      890.     960.        5        0        0      .00  1577.82  6291.67
0
1
 05/26/88    11:43:20                                                                                    PAGE    5


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=       .37          CWSEL=   1332.61
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```
STA=    4673.    4740.    4840.    5575.    5609.    5680.    5800.    5890.    5960.    6040.    6120.    6220.    6292.
  PER Q=      .6      2.8     89.2       .3       .3      1.4      1.0       .8       .9       .9      1.2       .6
   AREA=    20.5     61.0   1095.8     10.2      9.3     43.2     32.4     25.2     28.8     28.8     36.0     21.9
    VEL=      .8      1.2      2.2       .8       .8       .9       .9       .9       .9       .9       .9       .8

CCHV=    .300 CEHV=    .500
*SECNO  .523

3265 DIVIDED FLOW

      .52     1.89  1336.89      .00      .00  1336.94      .05     4.26      .01  1336.00
    2640.     961.     195.    1483.     569.      97.     782.      87.      92.  1336.00
      .38     1.69     2.02     1.90     .070     .070     .070     .000  1335.00  4295.10
  .005850     750.     700.     630.        4        0        0      .00  1415.91  5864.23
0
FLOW DISTRIBUTION FOR SECNO=       .52          CWSEL=   1336.89

STA=    4295.    4390.    4500.    4570.    4830.    4870.    4965.    5035.    5425.    5595.    5820.    5864.
  PER Q=      6.0     11.6      5.3      9.4      3.7      1.3      7.4     10.6     22.5     22.4       .7
   AREA=    93.9    152.3     79.4    155.3     51.4     37.2     96.9    192.5    269.4    300.3     19.6
    VEL=      1.7      2.0      1.8      1.4      1.9       .9      2.0      1.5      2.2      2.0       .9

*SECNO  .608

1645 INT SEC ADDED BY RAISING SEC       .61,  -1.333FT AND MULTIPLYING BY    .836


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.01     3.98  1339.65  1339.65      .00  1341.30     1.65     1.61      .00  1342.17
    2640.       0.    2640.       0.       0.     256.       0.      90.      94.  1342.17
      .38      .00    10.32      .00     .070     .050     .070     .000  1335.67  4953.10
  .025356     147.     150.     153.       20       17        0      .00    78.33  5031.43
0
FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1339.65

STA=    4953.    5041.
  PER Q=    100.0
   AREA=    255.8
    VEL=     10.3

1
 05/26/88    11:43:20                                                                                                PAGE    6


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST



1645 INT SEC ADDED BY RAISING SEC      1.01,    .667FT AND MULTIPLYING BY   1.098


3301 HV CHANGED MORE THAN HVINS

     1.02     6.16  1342.50      .00      .00  1342.95      .46     1.29      .36  1342.83
    2640.       0.    2640.       0.       0.     487.       0.      91.      95.  1342.83
      .39      .00     5.43      .00     .070     .050     .070     .000  1336.33  4946.20
  .004284     147.     150.     153.        3        0        0      .00   102.93  5049.13
0
```

```
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1342.50

 STA=    4946.    5051.
   PER Q=    100.0
    AREA=    486.6
     VEL=      5.4


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .667FT AND MULTIPLYING BY   1.089

       .61     6.18  1343.18      .00      .00  1343.56      .38      .59      .02  1343.50
     2640.       0.    2640.       0.       0.     531.       0.      93.      95.   1343.50
       .40      .00     4.97      .00     .070     .050     .070     .000  1337.00  4946.27
   .003578     147.     150.     153.        1        0        0      .00   112.20  5058.47
0
 FLOW DISTRIBUTION FOR SECNO=       .61          CWSEL=   1343.18

 STA=    4946.    5060.
   PER Q=    100.0
    AREA=    531.2
     VEL=      5.0

 *SECNO  .614
       .61     6.27  1343.27      .00  1342.15  1343.69      .42      .11      .02  1343.50
     2815.       0.    2815.       0.       0.     543.       0.      93.      95.   1343.50
       .40      .00     5.19      .00     .070     .050     .070     .000  1337.00  4945.88
   .003828      30.      30.      30.        2        0        0      .00   113.06  5058.94
0
1
  05/26/88    11:43:20                                                                          PAGE    7


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=       .61          CWSEL=   1343.27

 STA=    4946.    5060.
   PER Q=    100.0
    AREA=    542.7
     VEL=      5.2

 CCHV=    .100 CEHV=    .300
 *SECNO  .741
       .74     4.74  1344.74      .00      .00  1344.78      .04     1.06      .04  1340.00
     2567.       70.    2038.     399.      66.    1225.     522.     112.     103.   1344.00
       .52     1.06     1.71      .76     .070     .050     .070     .000  1340.00  4592.09
   .000797     560.     670.     800.        4        0        0      .00   840.42  5432.51
0
 FLOW DISTRIBUTION FOR SECNO=       .74          CWSEL=   1344.74

 STA=    4592.    4620.    5040.    5110.    5375.    5433.
   PER Q=      2.7     81.7      3.2     12.1      .3
    AREA=     66.2   1225.1    104.6    396.0    21.4
     VEL=      1.1      1.7      .8       .8       .3

 *SECNO  .884
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
       .88     3.05  1349.05  1349.05      .00  1349.47      .42     1.83      .11  1349.20
     2567.       0.    1504.    1063.       0.     250.     279.     132.     115.   1349.00
       .56      .00     6.01     3.82     .070     .050     .070     .000  1346.00  4815.00
```

```
  .047438     900.     760.     650.       20       17        0      .00   687.13  5302.13
0
 FLOW DISTRIBUTION FOR SECNO=       .88          CWSEL=   1349.05

 STA=    4815.    5035.    5220.    5340.    5502.
   PER Q=     58.6      8.2     23.3      9.9
    AREA=    250.4     68.3    125.5     84.8
     VEL=      6.0      3.1      4.9      3.0

 *SECNO 1.011
      1.01     4.85  1355.35      .00      .00  1355.51      .16     6.02      .03  1352.00
     2567.     853.     1246.     469.     498.     286.     311.     145.     126.   1352.00
       .63     1.71     4.35     1.51     .070     .050     .070     .000  1350.50  4656.48
  .003290     840.     740.     650.        4        0        0      .00   661.40  5317.88
0
1
  05/26/88    11:43:20                                                                    PAGE    8


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IOC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1355.35

 STA=    4656.    4955.    5025.    5140.    5290.    5318.
   PER Q=     33.2     48.5     15.0      2.9       .3
    AREA=    499.0    286.0    211.2     88.0     11.7
     VEL=      1.7      4.4      1.8       .9       .7

 *SECNO 1.136
      1.14     4.65  1358.65      .00      .00  1359.04      .38     3.46      .07  1356.00
     2567.     754.     1136.     677.     300.     164.     269.     159.     135.   1356.00
       .67     2.52     6.91     2.52     .070     .050     .070     .000  1354.00  4749.32
  .009643     660.     660.     660.        2        0        0      .00   473.12  5222.45
0
 FLOW DISTRIBUTION FOR SECNO=      1.14          CWSEL=   1358.65

 STA=    4749.    4975.    5020.    5222.
   PER Q=     29.4     44.3     26.4
    AREA=    299.6    164.5    268.7
     VEL=      2.5      6.9      2.5

 *SECNO 1.273
      1.27     4.73  1363.73      .00      .00  1363.92      .19     4.86      .02  1362.00
     2493.    1139.     1354.       0.     595.     303.       0.     173.     143.   1364.00
       .73     1.91     4.47      .00     .070     .050     .070     .000  1359.00  4494.99
  .005047     720.     710.     700.        3        0        0      .00   552.95  5047.94
0
 FLOW DISTRIBUTION FOR SECNO=      1.27          CWSEL=   1363.73

 STA=    4495.    4715.    4950.    5050.
   PER Q=     10.4     35.3     54.3
    AREA=    189.8    405.5    302.8
     VEL=      1.4      2.2      4.5

 *SECNO 1.453
      1.45     3.17  1369.17      .00      .00  1369.31      .14     5.39      .01  1368.50
     2493.     761.     1203.     530.     462.     329.     189.     191.     157.   1368.50
       .82     1.65     3.65     2.80     .070     .050     .070     .000  1366.00  4271.26
  .007783     750.     950.     910.        5        0        0      .00   900.78  5172.04
0
1
  05/26/88    11:43:20                                                                    PAGE    9
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.45          CWSEL=   1369.17

STA=    4271.    4440.    4590.    4650.    4790.    4850.    5050.    5090.    5130.    5172.
  PER Q=      5.2      9.9      4.0      8.6      2.7     48.2      3.0     11.0      1.3
   AREA=     99.3    139.1     55.6    120.5     47.4    329.2     77.1     87.1     24.7
    VEL=      1.3      1.8      1.8      1.8      1.4      3.7      2.9      3.1      1.3

*SECNO 1.621
     1.62     3.06  1376.06      .00      .00  1376.16      .10     6.04      .00  1376.00
    2420.    1793.     627.       0.     857.     180.       0.     211.     177.  1376.00
      .32     2.09     3.48      .19     .070     .050     .070     .000  1373.00  4036.59
  .007525     900.     890.     880.        3        0        0      .00  1026.84  5063.42
0
FLOW DISTRIBUTION FOR SECNO=      1.62          CWSEL=   1376.06

STA=    4037.    4300.    4590.    4820.    4945.    5060.    5063.
  PER Q=      7.7     46.7     19.5       .1     25.9       .0
   AREA=    147.9    454.8    245.7      8.5    180.4       .1
    VEL=      1.3      2.5      1.9       .3      3.5       .2

*SECNO 1.818
     1.82     3.29  1384.29      .00      .00  1384.42      .13     8.25      .01  1384.00
    2420.     805.     852.     763.     362.     284.     226.     234.     198.  1383.00
     1.02     2.22     3.00     3.38     .070     .050     .050     .000  1381.00  4612.32
  .008356    1040.    1040.    1050.        6        0        0      .00   758.65  5370.97
0
FLOW DISTRIBUTION FOR SECNO=      1.82          CWSEL=   1384.29

STA=    4612.    4625.    4780.    4890.    4950.    5195.    5300.    5360.    5371.
  PER Q=       .0     19.1     13.5       .6     35.2     24.3      7.2       .1
   AREA=      1.9    200.4    142.2     17.6    284.2    162.0     62.6      1.6
    VEL=       .5      2.3      2.3       .9      3.0      3.6      2.8       .8

*SECNO 2.021

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1393.00 ELREA=     1393.00

  2.02     3.34  1391.34      .00      .00  1391.41      .06     6.98      .01  1393.00
  1409.       0.    1409.       0.       0.     702.       0.     254.     216.  1393.00
  1.17      .00     2.01      .00     .070     .050     .050     .000  1388.00  4866.55
.004521    1100.    1070.    1040.        3        0        0      .00   639.04  5564.60
0
1
 05/26/88    11:43:20                                                                    PAGE   10


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      2.02          CWSEL=   1391.34

STA=    4867.    5740.
  PER Q=    100.0
   AREA=    702.3
    VEL=      2.0
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*SECNO 2.159
     2.16     1.51  1397.01      .00      .00  1397.20      .19     5.75      .04  1397.00
    1409.     228.    1101.      80.     101.     289.      46.     263.     226.   1396.00
     1.23     2.27     3.01     1.75     .070     .050     .070     .000  1395.50  4685.39
  .016863     800.     730.     640.        3        0        0      .00   534.98  5220.86
0
 FLOW DISTRIBUTION FOR SECNO=      2.16          CWSEL=   1397.01

 STA=    4686.    4715.    4765.    4835.    5130.    5221.
   PER Q=      1.8      9.9      4.5     78.1      5.7
   AREA=      14.7     50.5     35.7    289.1     45.9
    VEL=       1.7      2.8      1.8      3.8      1.7

 *SECNO 2.333
     2.33     3.61  1407.61      .00      .00  1407.96      .35    10.71      .05  1408.00
    1409.       0.    1409.       0.       0.     297.       0.     271.     233.   1408.00
     1.28      .00     4.74      .00     .070     .050     .070     .000  1404.00  4925.39
  .008454     990.     920.     870.        5        0        0      .00   129.71  5055.10
0
 FLOW DISTRIBUTION FOR SECNO=      2.33          CWSEL=   1407.61

 STA=    4925.    5060.
   PER Q=    100.0
   AREA=     297.1
    VEL=       4.7

1
 PROFILE FOR STREAM  PADELFORD WASH


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1310.     1320.     1330.     1340.     1350.     1360.     1370.     1380.     1390.     1400.
    SECNO   CUMDIS

      .00      0.  C     I EL        .         .         .         .         .         .         .         .
             100.  C      I ER       .         .         .         .         .         .         .         .
             200.  C      I EL       .         .         .         .         .         .         .         .
             300.  C       I.ER      .         .         .         .         .         .         .         .
             400.  C        I E      .         .         .         .         .         .         .         .
             500.  C        I ER     .         .         .         .         .         .         .         .
             600.  C        .I EM    .         .         .         .         .         .         .         .
             700.  C        . ILE    .         .         .         .         .         .         .         .
             800.  C        . I EM   .         .         .         .         .         .         .         .
             900.  C        .  ILE   .         .         .         .         .         .         .         .
            1000.  C        .   ILE  .         .         .         .         .         .         .         .
      .20   1100.  C        .   ILEM .         .         .         .         .         .         .         .
            1200.  C        .    ILE .         .         .         .         .         .         .         .
            1300.  C        .    I LE .         .         .         .         .         .         .         .
            1400.  C        .     ILEM.         .         .         .         .         .         .         .
            1500.  C        .      ILE.         .         .         .         .         .         .         .
            1600.  C        .      I LE         .         .         .         .         .         .         .
            1700.  C        .       I WE        .         .         .         .         .         .         .
            1800.  C        .        I.EM       .         .         .         .         .         .         .
            1900.  C        .        I.LE       .         .         .         .         .         .         .
      .37   2000.  C        .         I LE      .         .         .         .         .         .         .
            2100.  C        .         .I EM     .         .         .         .         .         .         .
            2200.  C        .         .I LE     .         .         .         .         .         .         .
            2300.  C        .         . I WE    .         .         .         .         .         .         .
            2400.  C        .         .  ILEM   .         .         .         .         .         .         .
            2500.  C        .         .   ILEM  .         .         .         .         .         .         .
            2600.  C        .         .   ILEM  .         .         .         .         .         .         .
      .52   2700.  C        .         .    ILEM .         .         .         .         .         .         .
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```
      2800. C  .  .  I  WEM  .  .  .  .  .  .  .
1.01  2900. .  .  .  I  WEL  .  .  .  .  .  .  .
1.02  3000. C  .  .  I  . WE  .  .  .  .  .  .  .
      3100. C  .  .  I  .  E  .  .  .  .  .  .  .
 .61  3200. C  .  .  I  .  WE .  .  .  .  .  .  .
 .61  3300. C  .  .  I  .  WE .  .  .  .  .  .  .
      3400. C  .  .  I  .  WE .  .  .  .  .  .  .
      3500. C  .  .   I . L E .  .  .  .  .  .  .
      3600. C  .  .   I . L E .  .  .  .  .  .  .
      3700. C  .  .    I.L  E .  .  .  .  .  .  .
      3800. C  .  .    I.L  WE .  .  .  .  .  .  .
 .74  3900. C  .  .     I  RE .  .  .  .  .  .  .
      4000. C  .  .     .I  EM .  .  .  .  .  .  .
      4100. C  .  .     . I  RE .  .  .  .  .  .  .
      4200. C  .  .     . I L WE .  .  .  .  .  .  .
      4300. C  .  .     .  I L E .  .  .  .  .  .  .
      4400. C  .  .     .   I LRE .  .  .  .  .  .  .
      4500. C  .  .     .    I LE .  .  .  .  .  .  .
 .88  4600. .  .  .     .     I  E. .  .  .  .  .  .
      4700. C  .  .     .      I RE .  .  .  .  .  .
      4800. C  .  .     .      I  LE .  .  .  .  .  .
      4900. C  .  .     .       I L E .  .  .  .  .  .
      5000. C  .  .     .       I .LWE .  .  .  .  .  .
      5100. C  .  .     .        I.L WE .  .  .  .  .  .
      5200. C  .  .     .         IL  EM .  .  .  .  .  .
      5300. C  .  .     .         I L  E .  .  .  .  .  .
1.01  5400. C  .  .     .         .IL  WE .  .  .  .  .  .
      5500. C  .  .     .         .I L  E .  .  .  .  .  .
      5600. C  .  .     .         . IL  WE .  .  .  .  .  .
      5700. C  .  .     .         . I L  E .  .  .  .  .  .
      5800. C  .  .     .         .  IL  WE .  .  .  .  .  .
      5900. C  .  .     .         .  I L  E .  .  .  .  .  .
1.14  6000. C  .  .     .         .   I L  E. .  .  .  .  .
      6100. C  .  .     .         .    I L WE .  .  .  .  .
      6200. C  .  .     .         .    I  L E .  .  .  .  .
      6300. C  .  .     .         .     I  L.E .  .  .  .  .
      6400. C  .  .     .         .      I L.RE .  .  .  .  .
      6500. C  .  .     .         .       I L EM .  .  .  .  .
      6600. C  .  .     .         .       I .L E .  .  .  .  .
1.27  6700. C  .  .     .         .        I. L E .  .  .  .  .
      6800. C  .  .     .         .         I  LEM .  .  .  .  .
      6900. C  .  .     .         .         I  L E .  .  .  .  .
      7000. C  .  .     .         .         .I  LWE .  .  .  .  .
      7100. C  .  .     .         .         . I  LE .  .  .  .  .
      7200. C  .  .     .         .         .  I LRE .  .  .  .  .
      7300. C  .  .     .         .         .  I  LE .  .  .  .  .
      7400. C  .  .     .         .         .   I  LE .  .  .  .  .
      7500. C  .  .     .         .         .    I LEM. .  .  .  .
      7600. C  .  .     .         .         .     I LE. .  .  .  .
1.45  7700. C  .  .     .         .         .     I  EM .  .  .  .
      7800. C  .  .     .         .         .      I LE .  .  .  .
      7900. C  .  .     .         .         .       I LE .  .  .  .
      8000. C  .  .     .         .         .       I .LE .  .  .  .
      8100. C  .  .     .         .         .        I. EM .  .  .  .
      8200. C  .  .     .         .         .         I  EM .  .  .  .
      8300. C  .  .     .         .         .         .I  EM .  .  .  .
      8400. C  .  .     .         .         .         . I LE .  .  .  .
      8500. C  .  .     .         .         .         . I  EM .  .  .  .
1.62  8600. C  .  .     .         .         .         .  I  EM .  .  .  .
      8700. C  .  .     .         .         .         .   I  EM. .  .  .
      8800. C  .  .     .         .         .         .    I REM. .  .  .
      8900. C  .  .     .         .         .         .    I  WE. .  .  .
      9000. C  .  .     .         .         .         .     I  EM .  .  .
      9100. C  .  .     .         .         .         .      I REM .  .  .
      9200. C  .  .     .         .         .         .       I REM .  .  .
      9300. C  .  .     .         .         .         .       I .LEM .  .  .
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          9400.  C      .      .      .      .      .      .     I.REM    .      .      .
          9500.  C      .      .      .      .      .      .      I REM   .      .      .
     1.82 9600.  C      .      .      .      .      .      .      .I RE M .      .      .
          9700.  C      .      .      .      .      .      .      . I REM .      .      .
          9800.  C      .      .      .      .      .      .      . I  REM .      .      .
          9900.  C      .      .      .      .      .      .      .  I  ELM .      .      .
         10000.  C      .      .      .      .      .      .      .   I  EM .      .      .
         10100.  C      .      .      .      .      .      .      .   I   EM.      .      .
         10200.  C      .      .      .      .      .      .      .    I  ELM      .      .
         10300.  C      .      .      .      .      .      .      .     I  EL      .      .
         10400.  C      .      .      .      .      .      .      .     I   EL     .      .
         10500.  C      .      .      .      .      .      .      .      I  ERL    .      .
         10600.  C      .      .      .      .      .      .      .       I .ELM   .      .
     2.02 10700. C      .      .      .      .      .      .      .       I .E L   .      .
         10800.  C      .      .      .      .      .      .      .        I. ERL  .      .
         10900.  C      .      .      .      .      .      .      .         I  ELM .      .
         11000.  C      .      .      .      .      .      .      .         .I  ELM .      .
         11100.  C      .      .      .      .      .      .      .         . I WE M .     .
         11200.  C      .      .      .      .      .      .      .         .  I EL M .    .
         11300.  C      .      .      .      .      .      .      .         .  IRE  M.     .
     2.16 11400. C      .      .      .      .      .      .      .         .    IE  M     .
         11500.  C      .      .      .      .      .      .      .         .    IRE .M    .
         11600.  C      .      .      .      .      .      .      .         .     I WE M   .
         11700.  C      .      .      .      .      .      .      .         .      I WE M  .
         11800.  C      .      .      .      .      .      .      .         .       I.REM  .
         11900.  C      .      .      .      .      .      .      .         .        I  EM .
         12000.  C      .      .      .      .      .      .      .         .        .I  EM .
         12100.  C      .      .      .      .      .      .      .         .        . I  EM .
         12200.  C      .      .      .      .      .      .      .         .        .  I  WE .
     2.33 12300. C      .      .      .      .      .      .      .         .        .   I   E .
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 05/26/88    11:43:20                                                                    PAGE   11
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THIS RUN EXECUTED 05/26/88 11:44:09

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

PADELFORD WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	EMDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	2714.00	1318.82	3764.47	4825.00	5300.00	6286.94	.00	1434.20	1.82	1317.00	63.20	1.47
	.203	2714.00	1326.10	4531.66	4930.00	5590.00	6061.14	7.28	1529.48	2.10	1324.00	78.29	1.86
	.371	2714.00	1332.61	4672.90	4840.00	5575.00	6291.67	6.50	1577.82	2.61	1330.00	65.58	2.23
	.523	2640.00	1336.89	4295.10	4965.00	5035.00	5864.23	4.28	1415.91	1.89	1335.00	58.50	2.02
*	.608	2640.00	1343.18	4946.27	4945.00	5060.00	5058.47	.68	112.20	6.18	1337.00	35.78	4.97
	.614	2815.00	1343.27	4945.88	4945.00	5060.00	5058.94	.09	113.06	6.27	1337.00	38.28	5.19

	.741	2567.00	1344.74	4592.09	4620.00	5040.00	5432.51	1.47	840.42	4.74	1340.00	7.97	1.71
*	.884	2567.00	1349.05	4815.00	4815.00	5095.00	5502.13	4.30	687.13	3.05	1346.00	474.38	6.01
	1.011	2567.00	1355.35	4656.48	4955.00	5025.00	5317.88	6.30	661.40	4.85	1350.50	32.90	4.35
	1.136	2567.00	1358.65	4749.32	4975.00	5020.00	5222.45	3.31	473.12	4.65	1354.00	96.43	6.91
	1.273	2493.00	1363.73	4494.99	4950.00	5050.00	5047.94	5.07	552.95	4.73	1359.00	50.47	4.47
	1.453	2493.00	1369.17	4271.26	4950.00	5050.00	5172.04	5.45	900.78	3.17	1366.00	77.83	3.65
	1.621	2420.00	1376.06	4036.58	4945.00	5060.00	5063.42	6.89	1026.04	3.06	1373.00	75.25	3.48
	1.818	2420.00	1384.29	4612.32	4950.00	5195.00	5370.97	8.23	758.65	3.29	1381.00	83.56	3.00
	2.021	1409.00	1391.34	4866.55	4780.00	5740.00	5564.60	7.05	698.04	3.34	1388.00	45.21	2.01
	2.159	1409.00	1397.01	4685.99	4835.00	5130.00	5220.86	5.66	534.89	1.51	1395.50	168.63	3.81
	2.333	1409.00	1407.61	4925.39	4920.00	5060.00	5055.10	10.60	129.71	3.61	1404.00	84.54	4.74

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .608 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= .884 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= .884 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= .884 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

1

05/26/88 11:44:12 PAGE 1

THIS RUN EXECUTED 05/26/88 11:44:13

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************
```

T1 WITTMANN ADMS
T2 HEC-2 FLOODPLAIN ANALYSIS (100 YEAR EVENT)
T3 EAST BRANCH OF PADELFORD WASH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	1425.	1391.300	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

```
     38.000    43.000     1.000    53.000    21.000    22.000    54.000    31.000     4.000     8.000


     42.000     5.000    26.000      .000      .000      .000      .000      .000      .000      .000


NC       .070      .050      .060      .100      .300      .000      .000      .000      .000      .000
X1       .000     9.000  4840.000  5070.000  1100.000  1040.000  1070.000      .000      .000      .000
X2    2420.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR    1393.000  4780.000  1392.000  4840.000  1388.000  5000.000  1391.000  5070.000  1390.500  5200.000
GR    1390.000  5275.000  1391.000  5400.000  1390.500  5520.000  1392.000  5600.000      .000      .000

X1       .155     5.000  4975.000  5040.000   800.000   800.000   820.000      .000      .000      .000
X2    1122.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR    1400.000  4725.000  1396.000  4975.000  1394.000  5000.000  1396.000  5040.000  1400.000  5150.000

X1       .354     7.000  4910.000  5050.000  1010.000  1000.000  1050.000      .000      .000      .000
GR    1407.000  4590.000  1404.000  4675.000  1403.000  4780.000  1404.000  4910.000  1401.500  5000.000
GR    1404.000  5050.000  1400.000  5200.000      .000      .000      .000      .000      .000      .000

X1       .487     5.000  4950.000  5035.000   750.000   650.000   700.000      .000      .000      .000
GR    1412.000  4950.000  1408.000  4970.000  1406.000  5000.000  1408.000  5015.000  1412.000  5035.000
EJ       .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
 05/26/88    11:44:12                                                                                PAGE    2


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000
      .00     3.30  1391.30      .00  1391.30  1391.52      .22      .00      .00  1392.00
    2420.       0.    1459.     961.       0.     344.     333.       0.       0.  1391.00
      .00      .00     4.24     2.98     .070     .060     .050     .000  1388.00  4868.00
  .014449    1100.    1070.    1040.        0        0        0      .00   694.67  5562.67
0
FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1391.30

STA=    4868.    5070.    5200.    5275.    5400.    5520.    5563.
  PER Q=     60.3      7.1     12.0     12.7      6.5      1.4
  AREA=    343.8     71.5     78.8    100.0     66.0     17.1
   VEL=      4.2      2.4      3.7      3.1      2.4      1.9

*SECNO  .155
      .16     4.32  1398.32      .00      .00  1398.45      .13     6.92      .01  1396.00
    1122.      242.     730.     149.     168.     216.      74.      11.       9.  1396.00
      .08     1.44     3.38     2.02     .070     .060     .050     .000  1394.00  4830.00
  .003780     800.     820.     800.        4        8        0      .00   273.81  5103.80
0
FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1398.32

STA=    4830.    4975.    5040.    5104.
  PER Q=     21.6     65.1     13.3
  AREA=    168.2    215.8     74.0
   VEL=      1.4      3.4      2.0

*SECNO  .354
      .35     2.83  1404.33      .00      .00  1404.47      .14     6.02      .00  1404.00
    1122.      371.     749.       2.     198.     222.       2.      21.      17.  1404.00
```

```
      .18      1.88      3.38       .90      .070      .060      .050      .000  1401.50  4663.52
   .010067    1010.     1050.     1000.         5         0         0       .00   397.02  5062.54
0
 FLOW DISTRIBUTION FOR SECNO=        .35          CWSEL=   1404.33

 STA=    4666.     4675.     4780.     4910.     5050.     5063.
   PER Q=       .1      14.7      18.3      66.7        .2
    AREA=      1.6      87.6     108.5     221.8       2.1
     VEL=       .6       1.9       1.9       3.4        .9

1
  05/26/88    11:44:12                                                                          PAGE    3


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .487
       .49      5.02  1411.02       .00       .00  1411.40       .39      6.86       .07  1412.00
     1122.        0.     1122.        0.        0.      227.        0.      26.       21.  1412.00
       .22       .00      4.95       .00      .070      .060      .050      .000  1406.00  4954.90
   .009323      750.      700.      650.         4         0         0       .00    75.20  5030.10
0
 FLOW DISTRIBUTION FOR SECNO=        .49          CWSEL=   1411.02

 STA=    4955.     5035.
   PER Q=     100.0
    AREA=     226.5
     VEL=       5.0

1
  05/26/88    11:44:12                                                                          PAGE    4


                                                                    THIS RUN EXECUTED 05/26/88   11:44:22
 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ***************************************************


 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 EAST BRANCH OF PADELFORD

 SUMMARY PRINTOUT


      SECNO      Q       CWSEL     SSTA     STCHL    STCHR    ENDST    DIFWSX   TOPWID   DEPTH   ELMIN   10K*S    VCH

 2.08%  .000  2420.00  1391.30  4868.00  4840.00  5070.00  5562.67      .00   694.67    3.30  1388.00  144.49    [illegible].24

 -2.1%  .155  1122.00  1398.32  4930.00  4975.00  5040.00  5103.00     7.02   273.81    4.32  1394.00   37.00    3.39

 2.37%  .354  1122.00  1404.33  4665.52  4910.00  5050.00  5062.54     6.02   397.02    2.83  1401.50  100.67    3.38

 2.50%  .487  1122.00  1411.02  4954.90  4950.00  5035.00  5030.10     6.69    75.20    5.02  1406.00   93.23    4.95
```

SUMMARY OF ERRORS AND SPECIAL NOTES

THIS RUN EXECUTED 05/26/88 11:44:24

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
**************************************************
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INPUT FILE: MCOUTWSH

OUTPUT FILE: MCOUTWSH.OUT

THIS RUN EXECUTED 05/03/88 15:30:30

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
T2      100-YEAR STORM EVENT (NO ENCROACHMENT)
T3      MCMICKEN DAM OUTLET WASH

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        2.        0.        0.   .002760      .00       .5        0.  1178.000      .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLOC     IBW       CHNIM     ITRACE

    1.000      .000      .000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   39.000    43.000     1.000    53.000    21.000    22.000    54.000    51.000     4.000     8.000


   42.000     5.000    26.000      .000   110.000      .000   200.000      .000      .000      .000


NC      .060      .060      .040      .100      .300      .000      .000      .000      .000      .000
QT     4.000  6522.000  6522.000  5085.000  2917.000      .000      .000      .000      .000      .000
ET      .000      .000    10.400      .000      .000      .000      .000      .000      .000      .000
X1      .000    18.000  4010.000  5062.000      .000      .000      .000      .000      .000      .000
GR  1180.500  3930.000  1180.000  4010.000  1176.000  4028.000  1175.000  4150.000  1176.000  4282.000
GR  1176.000  4368.000  1174.000  4420.000  1173.000  4500.000  1174.000  4566.000  1175.500  4768.000
GR  1174.000  4892.000  1172.000  4920.000  1172.000  5000.000  1174.000  5021.000  1180.000  5047.000
GR  1200.000  5062.000  1210.000  5180.000  1210.500  5210.000      .000      .000      .000      .000

X1      .107    24.000  4282.000  5268.000   950.000   510.000   564.000      .000      .000      .000
GR  1200.000  4282.000  1190.000  4309.000  1184.000  4340.000  1182.000  4422.000  1180.000  4432.000
GR  1176.000  4464.000  1180.000  4490.000  1180.500  4536.000  1180.000  4650.000  1179.000  4696.000
GR  1180.000  4728.000  1180.000  4790.000  1180.000  4845.000  1180.000  4895.000  1178.500  4920.000
GR  1180.000  4940.000  1180.000  4965.000  1179.000  5000.000  1180.000  5010.000  1180.000  5181.000
GR  1178.500  5215.000  1180.000  5230.000  1190.000  5268.000  1196.000  5325.000      .000      .000

X1      .159    25.000  4355.000  5150.000   130.000   350.000   274.000      .000      .000      .000
GR  1210.000  4355.000  1190.000  4400.000  1180.000  4459.000  1180.000  4473.000  1178.000  4482.000
GR  1180.000  4502.000  1182.000  4535.000  1180.000  4560.000  1179.000  4575.000  1180.000  4585.000
GR  1182.000  4612.000  1182.500  4670.000  1182.000  4739.000  1181.000  4755.000  1182.000  4767.000
GR  1182.000  4820.000  1182.000  4848.000  1182.000  4900.000  1182.000  4960.000  1181.000  5000.000
GR  1182.000  5032.000  1182.000  5099.000  1184.000  5122.000  1190.000  5150.000  1198.000  5170.000
```

X1	.238	23.000	4500.000	5503.000	140.000	575.000	418.000	.000	.000	.000
GR	1230.000	4470.000	1210.000	4500.000	1190.000	4538.000	1184.000	4560.000	1184.000	4572.000
GR	1185.000	4606.000	1184.000	4652.000	1180.000	4678.000	1180.000	4698.000	1182.000	4710.000
GR	1184.000	4780.000	1185.000	4835.000	1184.000	4880.000	1182.500	4950.000	1183.000	5000.000
GR	1186.000	5040.000	1186.000	5200.000	1186.000	5300.000	1188.000	5360.000	1190.000	5422.000
GR	1200.000	5503.000	1210.000	5530.000	1214.000	5595.000	.000	.000	.000	.000
X1	.350	29.000	4855.000	5428.000	480.000	760.000	590.000	.000	.000	.000
GR	1220.000	4390.000	1210.000	4412.000	1200.000	4428.000	1190.000	4495.000	1190.000	4500.000
GR	1192.000	4505.000	1194.000	4540.000	1194.000	4564.000	1192.000	4704.000	1190.000	4785.000
GR	1192.500	4855.000	1190.000	4915.000	1188.000	4925.000	1186.000	4975.000	1184.500	5000.000
GR	1188.000	5010.000	1188.000	5045.000	1186.000	5065.000	1188.000	5080.000	1183.000	5103.000
GR	1189.500	5221.000	1190.000	5258.000	1192.000	5270.000	1194.000	5408.000	1200.000	5428.000
GR	1210.000	5447.000	1214.000	5480.000	1214.000	5539.000	1216.500	5603.000	.000	.000
X1	.437	26.000	4970.000	5450.000	470.000	450.000	459.000	.000	.000	.000
GR	1220.000	4648.000	1210.000	4750.000	1200.000	4788.000	1199.000	4820.000	1200.000	4845.000
GR	1202.000	4865.000	1207.000	4900.000	1204.000	4940.000	1200.000	4970.000	1190.000	4995.000
GR	1188.000	5000.000	1188.000	5018.000	1190.000	5030.000	1192.000	5050.000	1191.000	5082.000
GR	1192.000	5100.000	1193.000	5273.000	1192.000	5331.000	1192.000	5350.000	1194.000	5400.000
GR	1194.000	5420.000	1193.000	5432.000	1200.000	5450.000	1210.000	5470.000	1220.000	5500.000
GR	1222.000	5580.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.527	19.000	4603.000	5200.000	525.000	150.000	480.000	.000	.000	.000
GR	1220.000	4440.000	1210.000	4568.000	1200.000	4603.000	1198.000	4659.000	1197.000	4740.000
GR	1198.000	4793.000	1199.000	4842.000	1198.000	4900.000	1194.000	4922.000	1193.000	5000.000
GR	1194.000	5080.000	1196.000	5090.000	1196.000	5120.000	1199.000	5175.000	1200.000	5185.000
GR	1210.000	5200.000	1220.000	5228.000	1222.000	5265.000	1223.000	5322.000	.000	.000
X1	.579	17.000	4465.000	5062.000	435.000	150.000	273.000	.000	.000	.000
GR	1220.000	4355.000	1216.000	4465.000	1202.000	4517.000	1200.000	4565.000	1198.500	4715.000
GR	1198.000	4800.000	1197.000	4825.000	1199.000	4848.000	1199.000	4895.000	1198.000	4941.000
GR	1194.000	4980.000	1192.500	5000.000	1200.000	5030.000	1210.000	5040.000	1220.000	5062.000
GR	1222.000	5103.000	1223.000	5190.000	.000	.000	.000	.000	.000	.000
X1	.647	18.000	4686.000	5228.000	265.000	398.000	360.000	.000	.000	.000
GR	1225.000	4290.000	1224.000	4370.000	1222.000	4515.000	1220.000	4544.000	1218.000	4610.000
GR	1216.000	4632.000	1214.000	4658.000	1217.000	4686.000	1202.000	4748.000	1202.000	4805.000
GR	1204.000	4900.000	1200.000	4950.000	1196.000	5000.000	1198.000	5140.000	1200.000	5165.000
GR	1210.000	5228.000	1220.000	5260.000	1224.000	5285.000	.000	.000	.000	.000
X1	.746	14.000	4880.000	5109.000	250.000	690.000	521.000	.000	.000	.000
GR	1226.000	4400.000	1225.000	4566.000	1224.000	4732.000	1220.000	4780.000	1212.000	4803.000
GR	1210.000	4830.000	1210.000	4880.000	1200.000	4930.000	1199.500	5000.000	1200.000	5043.000
GR	1202.000	5075.000	1210.000	5109.000	1220.000	5140.000	1225.000	5159.000	.000	.000
X1	.833	17.000	4882.000	5116.000	475.000	457.000	457.000	.000	.000	.000
GR	1234.000	4470.000	1230.000	4510.000	1220.000	4510.000	1214.000	4565.000	1212.000	4660.000
GR	1212.000	4714.000	1212.000	4870.000	1210.000	4882.000	1204.000	4909.000	1202.000	4945.000
GR	1200.000	5000.000	1202.000	5050.000	1204.000	5090.000	1204.000	5090.000	1210.000	5116.000
GR	1220.000	5150.000	1222.000	5160.000	.000	.000	.000	.000	.000	.000

1

X1	.946	14.000	4870.000	5090.000	640.000	600.000	600.000	.000	.000	.000
GR	1238.500	4250.000	1238.000	4620.000	1230.000	4719.000	1220.000	4810.000	1214.000	4833.000
GR	1214.000	4870.000	1206.000	4900.000	1204.000	4952.000	1202.500	5000.000	1204.000	5025.000
GR	1206.000	5069.000	1210.000	5090.000	1220.000	5121.000	1228.000	5150.000	.000	.000
GR	6.000	6272.000	6277.000	4016.000	2976.000	.000	.000	.000	.000	.000

X1	1.059	14.000	4853.000	5140.000	591.000	591.000	591.000	.000	.000	.000
GR	1240.000	4820.000	1230.000	4831.000	1220.000	4853.000	1218.000	4885.000	1210.000	4910.000
GR	1208.000	4920.000	1206.000	4978.000	1205.000	5000.000	1206.000	5015.000	1208.000	5065.000
GR	1210.000	5105.000	1220.000	5140.000	1230.000	5160.000	1234.000	5178.000	.000	.000
NC	.050	.050	.020	.000	.000	.000	.000	.000	.000	.000
X1	1.169	14.000	4880.000	5120.000	585.000	585.000	585.000	.000	.000	.000
GR	1244.000	4797.000	1240.000	4820.000	1230.000	4850.000	1220.000	4880.000	1212.000	4915.000
GR	1210.000	4933.000	1208.000	4975.000	1207.500	5000.000	1208.000	5055.000	1210.000	5080.000
GR	1220.000	5120.000	1230.000	5150.000	1234.000	5161.000	1235.000	5188.000	.000	.000
X1	1.191	15.000	4890.000	5120.000	115.000	115.000	115.000	.000	.000	.000
GR	1244.000	4811.000	1240.000	4830.000	1230.000	4860.000	1220.000	4890.000	1214.000	4910.000
GR	1212.500	4973.000	1212.000	4995.000	1208.500	5000.000	1212.000	5012.000	1212.500	5030.000
GR	1214.000	5091.000	1220.000	5120.000	1230.000	5152.000	1234.000	5170.000	1235.000	5185.000
X1	1.213	14.000	4880.000	5122.000	117.000	117.000	117.000	.000	.000	.000
GR	1244.000	4633.000	1242.000	4724.000	1240.000	4810.000	1230.000	4850.000	1220.000	4880.000
GR	1212.000	4900.000	1210.000	4969.000	1209.000	5000.000	1210.000	5031.000	1212.000	5090.000
GR	1220.000	5122.000	1230.000	5150.000	1234.000	5165.000	1235.500	5190.000	.000	.000
X1	1.251	7.000	4870.000	5130.000	190.000	190.000	190.000	.000	.000	.000
GR	1240.000	4840.000	1230.000	4870.000	1220.000	4900.000	1219.000	5000.000	1220.000	5080.000
GR	1230.000	5130.000	1234.000	5150.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.040	.000	.000	.000	.000	.000	.000	.000
X1	1.286	12.000	4860.000	5121.000	180.000	180.000	180.000	.000	.000	.000
GR	1248.000	4597.000	1246.000	4728.000	1244.000	4800.000	1242.000	4840.000	1240.000	4860.000
GR	1234.000	4882.000	1232.000	4906.000	1231.000	5000.000	1232.000	5063.000	1234.000	5099.000
GR	1236.000	5121.000	1238.000	5174.000	.000	.000	.000	.000	.000	.000
X1	1.307	9.000	4885.000	5100.000	113.000	113.000	113.000	.000	.000	.000
GR	1240.000	4865.000	1238.000	4875.000	1236.000	4885.000	1234.000	4895.000	1232.300	5000.000
GR	1234.000	5095.000	1236.000	5100.000	1238.000	5130.000	1240.000	5145.000	.000	.000
X1	1.381	9.000	4875.000	5100.000	395.000	380.000	392.000	.000	.000	.000
GR	1247.000	4750.000	1246.000	4792.000	1240.000	4875.000	1234.000	4914.000	1233.500	5000.000
GR	1234.000	5079.000	1240.000	5100.000	1242.000	5120.000	1242.500	5150.000	.000	.000
X1	1.479	10.000	4882.000	5110.000	475.000	550.000	516.000	.000	.000	.000
GR	1251.000	4741.000	1250.000	4800.000	1248.000	4819.000	1240.000	4882.000	1236.000	4900.000
GR	1235.500	5000.000	1236.000	5072.000	1240.000	5090.000	1244.000	5110.000	1245.000	5135.000

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X1	1.593	7.000	4870.000	5118.000	603.000	603.000	603.000	.000	.000	.000
GR	1255.000	4697.000	1250.000	4970.000	1239.000	4910.000	1237.500	5000.000	1238.000	5081.000
GR	1246.000	5118.000	1247.000	5142.000	.000	.000	.000	.000	.000	.000
X1	1.708	8.000	4882.000	5110.000	605.000	605.000	605.000	.000	.000	.000
GR	1256.000	4803.000	1254.000	4850.000	1250.000	4882.000	1240.000	4910.000	1240.000	5000.000
GR	1242.000	5082.000	1248.000	5110.000	1249.000	5145.000	.000	.000	.000	.000
X1	1.788	10.000	4880.000	5104.000	485.000	390.000	425.000	.000	.000	.000
GR	1258.000	4560.000	1256.000	4767.000	1254.000	4813.000	1250.000	4880.000	1250.000	4880.000
GR	1244.000	4900.000	1242.000	5000.000	1244.000	5080.000	1250.000	5104.000	1251.000	5138.000
X1	1.858	11.000	4882.000	5155.000	425.000	320.000	370.000	.000	.000	.000
GR	1260.000	4833.000	1258.000	4882.000	1246.000	4930.000	1244.000	4980.000	1243.000	5000.000
GR	1244.000	5029.000	1245.000	5067.000	1244.000	5105.000	1250.000	5135.000	1252.000	5155.000
GR	1253.000	5188.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.940	12.000	4880.000	5104.000	400.000	550.000	400.000	.000	.000	.000

GR	1263.000	4600.000	1262.000	4700.000	1260.000	4863.000	1256.000	4900.000	1248.000	4925.000
GR	1248.000	4960.000	1247.000	5000.000	1248.000	5031.000	1252.000	5060.000	1254.000	5104.000
GR	1260.000	5238.000	1262.000	5450.000	1263.000	5630.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4970.000	5150.000
X1	2.034	13.000	4963.000	5020.000	420.000	460.000	450.000	.000	.000	.000
GR	1265.000	4535.000	1264.000	4893.000	1262.000	4952.000	1260.000	4963.000	1250.000	4985.000
GR	1247.500	5000.000	1250.000	5010.000	1254.000	5020.000	1255.000	5170.000	1260.000	5220.000
GR	1262.000	5275.000	1264.000	5590.000	1264.500	5780.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4945.000	5145.000
X1	2.118	16.000	4940.000	5040.000	505.000	370.000	440.000	.000	.000	.000
GR	1270.000	4400.000	1268.000	4630.000	1266.000	4829.000	1264.000	4909.000	1262.000	4940.000
GR	1260.000	4956.000	1251.000	5000.000	1256.000	5020.000	1258.000	5040.000	1258.500	5148.000
GR	1260.000	5272.000	1260.000	5320.000	1262.000	5350.000	1264.000	5550.000	1266.000	5740.000
GR	1265.000	5825.000	.000	.000	.000	.000	.000	.000	.000	.000
QT	4.000	6023.000	6023.000	4747.000	2835.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4835.000	5050.000
X1	2.209	12.000	4969.000	5030.000	525.000	435.000	475.000	.000	.000	.000
GR	1270.000	4432.000	1268.000	4780.000	1266.000	4819.000	1260.000	4853.000	1258.000	4885.000
GR	1258.000	4903.000	1258.000	4969.000	1253.000	5000.000	1260.000	5030.000	1264.000	5150.000
GR	1264.000	5266.000	1266.000	5310.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4850.000	5050.000
X1	2.310	11.000	4970.000	5030.000	540.000	540.000	540.000	.000	.000	.000
GR	1270.000	4661.000	1268.000	4710.000	1266.000	4740.000	1264.000	4790.000	1262.000	4970.000
GR	1260.000	4980.000	1255.500	5000.000	1262.000	5030.000	1264.000	5083.000	1268.000	5127.000
GR	1269.500	5360.000	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4880.000	5100.000
X1	2.395	12.000	4967.000	5050.000	430.000	475.000	450.000	.000	.000	.000
GR	1271.000	4575.000	1270.000	4790.000	1266.000	4860.000	1264.000	4967.000	1260.000	4990.000
GR	1258.500	5000.000	1260.000	5010.000	1262.000	5030.000	1264.000	5050.000	1266.000	5110.000
GR	1268.000	5170.000	1270.000	5200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4900.000	5085.000
X1	2.486	15.000	4925.000	5070.000	450.000	525.000	480.000	.000	.000	.000
GR	1274.000	4752.000	1272.000	4803.000	1270.000	4825.000	1268.000	4925.000	1266.000	4940.000
GR	1264.000	4981.000	1263.000	5000.000	1266.000	5013.000	1266.000	5052.000	1268.000	5070.000
GR	1268.000	5105.000	1268.000	5135.000	1270.000	5230.000	1272.000	5280.000	1273.000	5400.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4895.000	5105.000
X1	2.588	12.000	4990.000	5050.000	540.000	530.000	540.000	.000	.000	.000
GR	1277.000	4605.000	1276.000	4675.000	1274.000	4760.000	1272.000	4951.000	1270.000	4980.000
GR	1265.500	5000.000	1266.000	5020.000	1268.000	5040.000	1270.000	5050.000	1272.000	5150.000
GR	1274.000	5190.000	1275.500	5200.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4975.000	5165.000
X1	2.691	11.000	4983.000	5129.000	550.000	520.000	540.000	.000	.000	.000
GR	1279.500	4780.000	1278.000	4873.000	1276.000	4935.000	1274.000	4993.000	1270.000	5000.000
GR	1272.200	5040.000	1270.000	5089.000	1269.000	5106.000	1274.000	5129.000	1276.000	5232.000
GR	1278.000	5298.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4950.000	5130.000
X1	2.774	11.000	4953.000	5050.000	415.000	490.000	440.000	.000	.000	.000
GR	1283.000	4695.000	1282.000	4800.000	1280.000	4900.000	1278.000	4953.000	1270.500	5000.000
GR	1276.000	5050.000	1278.000	5160.000	1278.500	5220.000	1279.000	5265.000	1278.000	5317.000
GR	1280.000	5553.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4920.000	5160.000
X1	2.867	17.000	4960.000	5117.000	465.000	410.000	490.000	.000	.000	.000

GR	1286.000	4293.000	1284.000	4406.000	1282.000	4551.000	1281.000	4638.000	1280.000	4788.000
GR	1280.000	4832.000	1281.000	4880.000	1280.000	4960.000	1274.000	5000.000	1276.000	5030.000
GR	1278.000	5050.000	1276.000	5070.000	1275.500	5080.000	1278.000	5090.000	1280.000	5117.000
GR	1282.000	5160.000	1283.500	5265.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4860.000	5130.000
[illegible]	2.937	15.000	4960.000	5025.000	290.000	540.000	370.000	.000	.000	.000
GR	1286.000	4640.000	1282.000	4740.000	1282.000	4937.000	1282.000	4940.000	1280.000	4960.000
GR	1276.000	5000.000	1280.000	5025.000	1282.000	5050.000	1280.000	5100.000	1277.000	5110.000
GR	1280.000	5121.000	1282.000	5250.000	1284.000	5307.000	1286.000	5360.000	1286.500	5423.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4930.000	5280.000
X1	3.011	13.000	4968.000	5021.000	370.000	430.000	393.000	.000	.000	.000
GR	1289.500	4640.000	1288.000	4750.000	1286.000	4809.000	1286.000	4851.000	1284.000	4968.000
GR	1277.000	5000.000	1282.000	5021.000	1283.000	5171.000	1282.000	5370.000	1284.000	5400.000
GR	1286.000	5425.000	1288.000	5498.000	1289.000	5679.000	.000	.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4870.000	5235.000
X1	3.140	12.000	4960.000	5030.000	715.000	590.000	680.000	.000	.000	.000
GR	1290.000	4820.000	1288.000	4870.000	1286.000	4960.000	1282.000	4975.000	1280.300	5000.000
GR	1282.000	5010.000	1286.000	5030.000	1287.500	5235.000	1286.000	5440.000	1286.000	5455.000
GR	1286.000	5540.000	1290.000	5670.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4900.000	5200.000
X1	3.247	11.000	4960.000	5020.000	550.000	600.000	565.000	.000	.000	.000
GR	1294.000	4700.000	1292.000	4840.000	1290.000	4870.000	1288.000	4960.000	1284.000	4970.000
GR	1282.300	5000.000	1288.000	5020.000	1290.000	5100.000	1291.000	5250.000	1292.000	5460.000
GR	1294.000	5530.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4830.000	5140.000
X1	3.354	15.000	4940.000	5035.000	550.000	565.000	565.000	.000	.000	.000
GR	1298.000	4630.000	1296.000	4675.000	1294.000	4725.000	1292.000	4760.000	1291.000	4790.000
GR	1292.000	4870.000	1292.500	4905.000	1292.000	4940.000	1288.000	4960.000	1286.300	5000.000
GR	1288.000	5020.000	1292.000	5035.000	1294.000	5215.000	1296.000	5370.000	1298.000	5435.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4750.000	5070.000
X1	3.465	18.000	4960.000	5030.000	600.000	600.000	585.000	.000	.000	.000
GR	1303.000	4059.000	1302.000	4084.000	1300.000	4163.000	1299.000	4315.000	1296.000	4476.000
GR	1296.500	4590.000	1296.000	4653.000	1294.000	4687.000	1294.000	4717.000	1296.000	4815.000
GR	1296.500	4845.000	1296.000	4875.000	1294.000	4960.000	1298.500	5000.000	1294.000	5030.000
GR	1300.000	5176.000	1302.000	5207.000	1303.000	5279.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4700.000	5040.000
X1	3.563	19.000	4960.000	5018.000	460.000	540.000	520.000	.000	.000	.000
GR	1309.000	4110.000	1306.000	4206.000	1302.000	4327.000	1300.000	4404.000	1298.000	4550.000
GR	1298.000	4740.000	1300.000	4820.000	1301.500	4873.000	1300.000	4930.000	1298.000	4960.000
GR	1292.000	4975.000	1290.500	5000.000	1296.000	5018.000	1298.000	5080.000	1300.000	5230.000
GR	1302.000	5300.000	1304.000	5405.000	1304.000	5457.000	1305.000	5530.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4650.000	5100.000
X1	3.656	16.000	4942.000	5020.000	490.000	490.000	490.000	.000	.000	.000
GR	1309.000	4109.000	1308.000	4225.000	1306.000	4368.000	1304.000	4417.000	1302.000	4480.000
GR	1300.000	4942.000	1298.000	4970.000	1292.000	5000.000	1300.000	5020.000	1300.000	5060.000
[illegible]	1300.000	5100.000	1302.000	5203.000	1304.000	5291.000	1306.000	5331.000	1308.000	5416.000
[illegible]	1310.000	5648.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4750.000	5100.000
X1	3.737	19.000	4970.000	5020.000	460.000	390.000	425.000	.000	.000	.000
GR	1310.000	3990.000	1308.000	4121.000	1306.000	4240.000	1304.000	4466.000	1303.500	4608.000
GR	1304.000	4736.000	1304.500	4820.000	1304.000	4890.000	1302.000	4970.000	1294.500	5000.000
GR	1302.000	5020.000	1302.000	5047.000	1304.000	5185.000	1306.000	5203.000	1308.000	5265.000
GR	1308.000	5327.000	1310.000	5403.000	1312.000	5543.000	1314.500	5651.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4720.000	5100.000
X1	3.816	18.000	4970.000	5035.000	470.000	400.000	420.000	.000	.000	.000
GR	1314.000	3921.000	1312.000	4017.000	1310.000	4091.000	1308.000	4207.000	1306.000	4546.000
GR	1307.000	4765.000	1306.000	4921.000	1306.000	4950.000	1304.000	4970.000	1296.500	5000.000
GR	1304.000	5035.000	1306.000	5200.000	1308.000	5241.000	1310.000	5289.000	1312.000	5320.000
[illegible]	1314.000	5370.000	1316.000	5429.000	1317.000	5504.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4850.000	5150.000
X1	3.879	24.000	4960.000	5100.000	380.000	260.000	330.000	.000	.000	.000
GR	1318.000	3430.000	1316.000	3520.000	1316.000	3550.000	1316.000	3791.000	1314.000	4019.000
GR	1312.000	4104.000	1310.000	4330.000	1309.000	4485.000	1310.000	4622.000	1311.000	4762.000
GR	1310.000	4858.000	1308.000	4909.000	1306.000	4960.000	1299.000	5000.000	1302.000	5011.000
GR	1302.000	5029.000	1304.000	5061.000	1306.000	5100.000	1308.000	5222.000	1310.000	5251.000
GR	1312.000	5279.000	1314.000	5314.000	1316.000	5423.000	1318.000	5548.000	.000	.000
NC	.080	.035	.035	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4850.000	5090.000
X1	3.945	24.000	4970.000	5090.000	520.000	280.000	350.000	.000	.000	.000
GR	1317.000	4232.000	1316.000	4300.000	1314.000	4340.000	1312.000	4387.000	1310.000	4603.000
GR	1309.000	4790.000	1308.000	4790.000	1308.000	4830.000	1308.000	4854.000	1309.000	4883.000
GR	1309.000	4930.000	1308.000	4970.000	1302.000	5000.000	1304.000	5020.000	1306.000	5060.000
GR	1308.000	5079.000	1310.000	5090.000	1312.000	5160.000	1312.000	5200.000	1311.000	5285.000
GR	1312.000	5350.000	1314.000	5390.000	1316.000	5440.000	1318.000	5495.000	.000	.000
QT	4.000	5087.000	5087.000	4279.000	2613.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4957.000	5099.000
X1	4.015	12.000	4957.000	5099.000	560.000	260.000	370.000	.000	.000	.000
[illegible]	1316.000	4432.000	1315.500	4649.000	1314.000	4957.000	1312.000	4970.000	1303.000	5000.000
GR	1304.000	5033.000	1306.000	5065.000	1308.000	5080.000	1312.000	5099.000	1314.000	5288.000
GR	1316.000	5370.000	1318.000	5443.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4950.000	5197.000
X1	4.053	12.000	4950.000	5197.000	250.000	135.000	200.000	.000	.000	.000
GR	1316.000	4408.000	1314.000	4630.000	1312.000	4950.000	1303.500	5000.000	1304.000	5015.000
GR	1306.000	5052.000	1308.000	5081.000	1312.000	5116.000	1312.000	5197.000	1314.000	5209.000
GR	1316.000	5282.000	1318.000	5334.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4953.000	5370.000
X1	4.148	10.000	4953.000	5370.000	500.000	500.000	500.000	.000	.000	.000
GR	1316.000	4221.000	1314.000	4315.000	1312.000	4705.000	1310.000	4953.000	1306.000	4980.000
GR	1304.500	5000.000	1306.000	5050.000	1306.000	5080.000	1310.000	5350.000	1319.000	5370.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4960.000	5303.000
X1	4.254	11.000	4960.000	5303.000	560.000	560.000	560.000	.000	.000	.000
GR	1316.000	4150.000	1314.000	4455.000	1314.000	4775.000	1312.000	4960.000	1306.000	4990.000
GR	1304.000	5000.000	1306.000	5040.000	1308.000	5070.000	1310.000	5085.000	1312.000	5275.000
GR	1319.000	5303.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4866.000	5234.000
X1	4.360	10.000	4866.000	5234.000	550.000	560.000	560.000	.000	.000	.000
GR	1316.000	3740.000	1314.000	4090.000	1312.000	4450.000	1310.000	4866.000	1308.000	4977.000
GR	1305.000	5000.000	1306.000	5028.000	1308.000	5076.000	1310.000	5200.000	1319.500	5234.000
[illegible]T	.000	.000	9.100	.000	.000	.000	.000	.000	4795.000	5185.000
X1	4.457	10.000	4795.000	5185.000	490.000	525.000	515.000	.000	.000	.000
GR	1316.000	3700.000	1314.000	3933.000	1312.000	4522.000	1310.000	4795.000	1308.000	4980.000
GR	1305.500	5000.000	1306.000	5021.000	1308.000	5085.000	1310.000	5119.000	1320.000	5185.000

```
ET      .000      .000     9.100      .000      .000      .000      .000      .000   4890.000   5162.000
XI     4.554     9.000  4890.000   5162.000   460.000   535.000   510.000      .000       .000       .000
GR  1316.000  3963.000  1314.000   4387.000  1312.000  4575.000  1310.000  4890.000  1305.000  5000.000
GR  1306.000  5029.000  1309.000   5071.000  1310.000  5131.000  1320.000  5162.000      .000       .000
EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000       .000
PROF 1
1
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  SECNO   DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      QLOSS   BANK ELEV
  Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
  TIME    VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
  SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


CCHV=   .100 CEHV=   .300
*SECNO  .000
     .00    4.64  1176.64     .00  1178.00  1176.79     .15     .00     .00  1180.00
   6522.      0.    6522.      0.      0.    2068.      0.      0.      0.   1200.00
     .00     .00     3.15     .00    .060     .040    .060    .000  1172.00  4025.13
  .002764     0.      0.      0.       0       0       5     .00  1007.30  5032.43
0
FLOW DISTRIBUTION FOR SECNO=      .00         CWSEL=   1176.64

STA=   4025.    5062.
  PER Q=    100.0
  AREA=   2068.0
   VEL=      3.2

SECNO  .107

1645 INT SEC ADDED BY RAISING SEC      .11,  -2.000FT AND MULTIPLYING BY   1.985

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.01    4.56  1178.56  1178.56     .00  1178.98     .42    1.79     .08  1198.00
   6522.      0.    6522.      0.      0.    1256.      0.     11.      8.   1188.00
     .02     .00     5.19     .00    .060     .040    .060    .000  1174.00  4574.18
  .026847   475.     282.    255.       3       6       0     .00  1593.65  6167.83
0
FLOW DISTRIBUTION FOR SECNO=     1.01         CWSEL=   1178.56

STA=   4574.    6239.
  PER Q=    100.0
  AREA=   1256.1
   VEL=      5.2


1645 INT SEC ADDED BY RAISING SEC     1.01,   2.000FT AND MULTIPLYING BY    .504

     .11    5.69  1181.69     .00     .00  1181.97     .28    2.97     .01  1200.00
   6522.      0.    6522.      0.      0.    1537.      0.     20.     16.   1190.00
     .03     .00     4.24     .00    .060     .040    .060    .000  1176.00  4423.61
  .005593   475.     282.    255.       6       0       0     .00   812.77  5236.38
```



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  SECNO   DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      QLOSS   BANK ELEV
  Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
  TIME    VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
  SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST
```

```
FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1181.69

STA=    4424.    5268.
 PER Q=    100.0
  AREA=   1536.9
   VEL=      4.2

*SECNO  .159
      .16     5.46  1183.46      .00      .00  1183.87      .42     1.87      .04  1210.00
     6522.      0.    6522.       0.       0.    1261.       0.      29.      21.   1190.00
      .05      .00     5.17      .00     .060     .040     .060     .000  1178.00  4438.60
  .008473     130.     274.     350.        2        0        0      .00   677.17  5115.76
0
FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1183.46

STA=    4439.    5150.
 PER Q=    100.0
  AREA=   1261.2
   VEL=      5.2

*SECNO  .238
      .24     6.39  1186.39      .00      .00  1186.68      .29     2.80      .01  1210.00
     6522.      0.    6522.       0.       0.    1511.       0.      42.      28.   1200.00
      .08      .00     4.32      .00     .060     .040     .060     .000  1180.00  4551.20
  .005415     140.     418.     575.        3        0        0      .00   760.76  5311.97
0
FLOW DISTRIBUTION FOR SECNO=       .24          CWSEL=   1186.39

STA=    4551.    5503.
 PER Q=    100.0
  AREA=   1511.1
   VEL=      4.3

*SECNO  .350

1645 INT SEC ADDED BY RAISING SEC       .35,  -2.250FT AND MULTIPLYING BY   1.299


3265 DIVIDED FLOW

     1.01     6.01  1188.26      .00      .00  1188.86      .60     2.08      .09  1190.25
     6522.     17.    6505.       0.      16.    1045.       0.      51.      32.   1197.75
      .09     1.08     6.23      .00     .060     .040     .060     .000  1182.25  4522.00
  .009575     240.     295.     380.        2        0        0      .00   522.35  5521.31
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1188.26

STA=    4522.    4526.    4533.    4903.    4921.    5738.
 PER Q=      .0       .1       .1       .1     99.7
  AREA=     1.1      3.3      7.1      4.6   1044.7
   VEL=     1.0      1.5      1.0      1.0      6.2


1645 INT SEC ADDED BY RAISING SEC       1.01,  2.250FT AND MULTIPLYING BY    .770
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3265 DIVIDED FLOW

      .35     6.45  1190.95      .00      .00  1191.63      .69     2.75      .03  1192.50
    6522.      60.    6462.       0.      39.     966.       0.      58.      35.   1200.00
      .10     1.53     6.69      .00     .060     .040     .060     .000  1184.50  4488.67
  .009115      240.     295.     380.        3        0        0      .00   449.78  5263.67
0
 FLOW DISTRIBUTION FOR SECNO=       .35          CWSEL=   1190.95

 STA=    4489.    4495.    4500.    4502.    4785.    4811.    5428.
   PER Q=       .1       .2       .0       .4       .3     99.1
    AREA=      3.0      4.7      1.1     18.1     12.5    965.6
     VEL=      1.4      2.3      1.4      1.4      1.4      6.7

 *SECNO  .437
      .44     6.65  1194.65      .00      .00  1195.12      .48     3.47      .02  1200.00
    6522.       0.    6522.       0.       0.    1177.       0.      69.      40.   1200.00
      .12      .00     5.54      .00     .060     .040     .060     .000  1188.00  4978.03
  .006362      470.     459.     450.        3        0        0      .00   458.20  5436.23
0
 FLOW DISTRIBUTION FOR SECNO=       .44          CWSEL=   1194.65

 STA=    4978.    5450.
   PER Q=    100.0
    AREA=   1177.2
     VEL=      5.5

 *SECNO  .527
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XML      XNCH     XMR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

      .53     5.15  1198.15      .00      .00  1198.77      .62     3.60      .04  1200.00
    6522.       0.    6522.       0.       0.    1034.       0.      81.      45.   1210.00
      .14      .00     6.30      .00     .060     .040     .060     .000  1193.00  4654.51
  .008993      525.     480.     150.        2        0        0      .00   431.47  5175.80
0
 FLOW DISTRIBUTION FOR SECNO=       .53          CWSEL=   1198.15

 STA=    4655.    5200.
   PER Q=    100.0
    AREA=   1034.5
     VEL=      6.3

 *SECNO  .579

 345 INT SEC ADDED BY RAISING SEC       .58,    .375FT AND MULTIPLYING BY   3.835


 3265 DIVIDED FLOW

     1.01     6.25  1199.12      .00      .00  1199.37      .25      .56      .04  1216.38
    6522.       0.    6522.       0.       0.    1631.       0.      83.      46.   1220.38
      .15      .00     4.00      .00     .060     .040     .060     .000  1192.88  5642.16
  .003622      102.      60.      30.        4        0        0      .00  1192.96  5684.54
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0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1199.12

 STA=    5642.    7067.
   PER Q=    100.0
   AREA=   1631.0
    VEL=      4.0


 1645 INT SEC ADDED BY RAISING SEC      1.01,   -.125FT AND MULTIPLYING BY    .754

      1.02     6.84  1199.59      .00      .00  1199.78      .19      .40      .01  1216.25
     6522.       0.    6522.       0.       0.    1854.       0.      86.      48.   1220.25
       .15      .00     3.52      .00     .060     .040     .060     .000  1192.75  5151.57
   .004726     109.      68.      38.        2        0        0      .00  1146.72  6298.29
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1199.59

 STA=    5152.    6398.
   PER Q=    100.0
   AREA=   1854.2
    VEL=      3.5


 1645 INT SEC ADDED BY RAISING SEC      1.02,   -.125FT AND MULTIPLYING BY    .673

      1.03     7.26  1199.88      .00      .00  1200.15      .26      .34      .02  1216.13
     6522.       0.    6522.       0.       0.    1584.       0.      89.      50.   1220.13
       .16      .00     4.12      .00     .060     .040     .060     .000  1192.63  4810.62
   .005402     109.      68.      38.        3        0        0      .00   855.43  5666.05
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1199.88

 STA=    4811.    5730.
   PER Q=    100.0
   AREA=   1584.4
    VEL=      4.1


 1645 INT SEC ADDED BY RAISING SEC      1.03,   -.125FT AND MULTIPLYING BY    .514

       .58     7.61  1200.11      .00      .00  1200.81      .70      .53      .13  1216.00
     6522.       0.    6522.       0.       0.     975.       0.      91.      51.   1220.00
       .16      .00     6.69      .00     .060     .040     .060     .000  1192.50  4562.41
   .012239     109.      68.      38.        3        0        0      .00   467.69  5030.11
0
 FLOW DISTRIBUTION FOR SECNO=       .59          CWSEL=   1200.11

 STA=    4562.    5062.
   PER Q=    100.0
   AREA=    974.5
    VEL=      6.7

 *SECNO  .647

 3265 DIVIDED FLOW
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


      .65     6.68  1202.68      .00      .00  1203.11      .43     2.27      .03  1217.00
    6522.       0.    6522.       0.       0.    1238.       0.     100.      54.   1210.00
      .18      .00     5.27      .00     .060     .040     .060     .000  1196.00  4745.20
   .003842     265.     360.     338.        3        0        0      .00   357.24  5181.86
0
 FLOW DISTRIBUTION FOR SECNO=       .65          CWSEL=   1202.68

 STA=    4745.    5228.
   PER Q=    100.0
    AREA=   1238.1
     VEL=      5.3

 *SECNO  .746

 1645 INT SEC ADDED BY RAISING SEC       .75,  -1.250FT AND MULTIPLYING BY   1.194

     1.01     6.30  1203.55      .00      .00  1204.23      .68     1.05      .08  1208.75
    6522.       0.    6522.       0.       0.     983.       0.     107.      56.   1208.75
      .19      .00     6.63      .00     .060     .040     .060     .000  1197.25  5004.28
   .004247     125.     261.     345.        2        0        0      .00   216.06  5220.33
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1203.55

 STA=    5004.    5247.
   PER Q=    100.0
    AREA=    983.2
     VEL=      6.6


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.250FT AND MULTIPLYING BY    .837

      .75     6.17  1204.67      .00      .00  1205.70     1.03     1.36      .10  1210.00
    6522.       0.    6522.       0.       0.     800.       0.     112.      57.   1210.00
      .20      .00     8.15      .00     .060     .040     .060     .000  1198.50  4906.64
   .006621     125.     261.     345.        2        0        0      .00   173.71  5086.36
0
 FLOW DISTRIBUTION FOR SECNO=       .75          CWSEL=   1204.67

 STA=    4907.    5189.
   PER Q=    100.0
    AREA=    799.9
     VEL=      8.2
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .833
      .83     7.27  1207.27      .00      .00  1207.88      .62     2.15      .06  1210.00
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    6522.      0.    6522.      0.      0.    1030.      0.     121.     59.   1210.00
      .22     .00     6.33     .00    .060     .040    .060     .000  1200.00  4894.29
  .003506    475.     457.    457.       3        0       0      .00   209.87  5104.16
0
 FLOW DISTRIBUTION FOR SECNO=       .93          CWSEL=   1207.27

 STA=    4894.    5116.
   PER Q=    100.0
    AREA=   1029.8
     VEL=      6.3
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BEARDSLEY RD.

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 *SECNO  .946
      .95     7.03  1203.53     .00     .00  1210.26     .73     2.34     .03  1214.00
    6522.      0.    6522.      0.      0.     949.      0.     135.     62.   1210.00
      .25     .00     6.88     .00    .060     .040    .060     .000  1202.50  4886.78
  .004347    640.     600.    600.       2        0       0      .00   200.73  5087.51
0
 FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1203.53

 STA=    4887.    5090.
   PER Q=    100.0
    AREA=    948.5
     VEL=      6.9

 *SECNO 1.050
     1.06     7.09  1212.09     .00     .00  1212.75     .66     2.48     .01  1220.00
    6273.      0.    6273.      0.      0.     962.      0.     148.     65.   1220.00
      .27     .00     6.52     .00    .060     .040    .060     .000  1205.00  4903.48
  .004047    591.     591.    591.       2        0       0      .00   208.82  5112.30
0
 FLOW DISTRIBUTION FOR SECNO=      1.06          CWSEL=   1212.09

 STA=    4903.    5140.
   PER Q=    100.0
    AREA=    961.8
     VEL=      6.5

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 1.169
     1.17     5.79  1213.29     .00     .00  1214.25     .96     1.41     .09  1220.00
    6273.      0.    6273.      0.      0.     797.      0.     160.     67.   1220.00
      .29     .00     7.87     .00    .050     .020    .050     .000  1207.50  4909.37
  .001599    585.     585.    585.       3        0       0      .00   183.78  5093.15
0
 FLOW DISTRIBUTION FOR SECNO=      1.17          CWSEL=   1213.29

 STA=    4909.    5120.
   PER Q=    100.0
    AREA=    796.6
     VEL=      7.9

 *SECNO 1.191

 1645 INT SEC ADDED BY RAISING SEC      1.19,   -.500FT AND MULTIPLYING BY   1.929

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3687 PROBABLE MINIMUM SPECIFIC ENERGY
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3720 CRITICAL DEPTH ASSUMED
     1.01      6.39  1214.39  1214.39      .00  1215.46      1.07      .15      .03  1219.50
    6273.        0.    6273.       0.       0.     755.        0.     161.      68.   1219.50
      .29       .00     8.31      .00     .050     .020      .050     .000  1208.00  4996.19
  .004733       58.      58.      58.       20        8         0      .00   363.11  5359.31
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1214.39

STA=    4996.    5407.
  PER Q=    100.0
   AREA=    754.8
    VEL=      8.3


1645 INT SEC ADDED BY RAISING SEC      1.01,    .500FT AND MULTIPLYING BY    .519


3301 HV CHANGED MORE THAN HVING

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         GLOB      GCH       GROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


    1.19      7.52  1216.02  1216.02      .00  1217.67      1.65      .26      .17  1220.00
    6273.        0.    6273.       0.       0.     609.        0.     162.      68.   1220.00
      .29       .00    10.30      .00     .050     .020      .050     .000  1208.50  4903.27
  .004344       58.      58.      58.       20        11        0      .00   197.50  5100.76
0
 FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1216.02

STA=    4903.    5120.
  PER Q=    100.0
   AREA=    609.0
    VEL=     10.3

*SECNO 1.213

1645 INT SEC ADDED BY RAISING SEC      1.21,   -.333FT AND MULTIPLYING BY    .669


3301 HV CHANGED MORE THAN HVING

     1.01      8.48  1217.14      .00      .00  1217.92      .68      .06      .10  1219.67
    6273.        0.    6273.       0.       0.     951.        0.     162.      68.   1219.67
      .30       .00     6.60      .00     .050     .020      .050     .000  1208.67  4802.56
  .000693       39.      39.      39.        3         0         0      .00   151.01  4953.57
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1217.14

STA=    4803.    4960.
  PER Q=    100.0
   AREA=    951.1
    VEL=      6.6


1645 INT SEC ADDED BY RAISING SEC      1.01,    .167FT AND MULTIPLYING BY   1.247
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     1.02     8.62  1217.45      .00      .00  1217.87      .42      .02      .03  1219.83
    6273.       0.    6273.       0.       0.    1213.       0.     163.      68.   1219.83
      .30      .00     5.17      .00     .050     .020     .050     .000  1208.83  4844.14
  .000413      39.      39.      39.        2        0        0      .00   189.07  5033.21
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1217.45

 STA=    4844.    5041.
   PER Q=    100.0
    AREA=   1212.8
     VEL=      5.2

 1645 INT SEC ADDED BY RAISING SEC      1.02,    .167FT AND MULTIPLYING BY   1.139

     1.21     8.60  1217.60      .00      .00  1217.89      .29      .01      .01  1220.00
    6273.       0.    6273.       0.       0.    1451.       0.     165.      69.   1220.00
      .30      .00     4.32      .00     .050     .020     .050     .000  1209.00  4885.97
  .000287      39.      39.      39.        1        0        0      .00   226.47  5112.44
0
 FLOW DISTRIBUTION FOR SECNO=      1.21          CWSEL=   1217.60

 STA=    4886.    5122.
   PER Q=    100.0
    AREA=   1451.2
     VEL=      4.3

 *SECNO 1.251

 1645 INT SEC ADDED BY RAISING SEC      1.25,  -6.667FT AND MULTIPLYING BY    .906

 3301 HV CHANGED MORE THAN HVINS

     1.01     4.73  1217.07      .00      .00  1210.18     1.11      .04      .25  1223.33
    6273.       0.    6273.       0.       0.     741.       0.     166.      69.   1223.33
      .30      .00     8.47      .00     .050     .020     .050     .000  1212.33  4884.21
  .002132      63.      63.      63.        4        0        0      .00   190.14  5074.35
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1217.07

 STA=    4884.    5103.
   PER Q=    100.0
    AREA=    741.1
     VEL=      8.5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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1645 INT SEC ADDED BY RAISING SEC      1.01,   3.333FT AND MULTIPLYING BY   1.052

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.02      3.90  1219.57  1219.57      .00  1221.18      1.61      .18      .15  1226.67
    6273.        0.    6273.       0.       0.     616.        0.     167.      69.   1226.67
      .30       .00    10.19      .00     .050     .020      .050     .000  1215.67  4888.08
  .004047       63.      63.      63.       20       15         0      .00   193.66  5082.54
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1219.57

 STA=    4889.    5116.
   PER Q=    100.0
    AREA=    615.5
     VEL=     10.2


 1645 INT SEC ADDED BY RAISING SEC      1.02,   3.333FT AND MULTIPLYING BY   1.049

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.25      3.81  1222.81  1222.81      .00  1224.36      1.56      .26      .01  1230.00
    6273.        0.    6273.       0.       0.     627.        0.     168.      69.   1230.00
      .31       .00    10.01      .00     .050     .020      .050     .000  1219.00  4891.58
  .004040       63.      63.      63.       20        8         0      .00   202.46  5094.04
0
 FLOW DISTRIBUTION FOR SECNO=      1.25          CWSEL=   1222.81

 STA=    4892.    5130.
   PER Q=    100.0
    AREA=    626.8
     VEL=     10.0

 *SECNO 1.286
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.29      3.89  1234.89  1234.89      .00  1236.33      1.44      1.31      .01  1240.00
    6273.        0.    6273.       0.       0.     651.        0.     171.      70.   1236.00
      .31       .00     9.63      .00     .060     .040      .060     .000  1231.00  4878.74
  .016816      180.     180.     180.       20        8         0      .00   230.04  5108.78
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.29          CWSEL=   1234.89

 STA=    4879.    5121.
   PER Q=    100.0
    AREA=    651.2
     VEL=      9.6

 *SECNO 1.307
     1.31      4.40  1236.70      .00      .00  1237.82      1.13      1.46      .03  1236.00
    6273.        1.    6267.       5.       1.     735.        4.     173.      71.   1236.00
      .32      1.23      9.53     1.24     .060     .040      .060     .000  1232.30  4881.52
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   .010282     113.     113.     113.        3        0        0      .00   228.92  5110.44
0
 FLOW DISTRIBUTION FOR SECNO=      1.31          CWSEL=   1236.70

 STA=    4882.    4885.    5100.    5110.
   PER Q=       .0     99.9       .1
   AREA=       1.2    734.7      3.6
    VEL=       1.2      8.5      1.2

 *SECNO 1.381

 1645 INT SEC ADDED BY RAISING SEC      1.38,   -.600FT AND MULTIPLYING BY    .983

      1.01     5.51  1238.41      .00      .00  1239.05      .64     1.17      .05  1239.40
    6273.       0.    6273.       0.       0.     976.       0.     176.      72.   1239.40
       .32      .00     6.42      .00     .060     .040     .060     .000  1232.90  4879.27
   .003917     198.     196.     190.        2        0        0      .00   211.51  5090.77
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1238.41

 STA=    4879.    5094.
   PER Q=    100.0
   AREA=     976.4
    VEL=       6.4


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .600FT AND MULTIPLYING BY   1.017

      1.38     5.69  1239.19      .00      .00  1239.76      .57      .71      .01  1240.00
    6273.       0.    6273.       0.       0.    1033.       0.     181.      73.   1240.00
       .33      .00     6.07      .00     .060     .040     .060     .000  1233.50  4880.25
   .003360     199.     196.     190.        2        0        0      .00   216.92  5097.17

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.38          CWSEL=   1239.19

 STA=    4880.    5100.
   PER Q=    100.0
   AREA=    1032.8
    VEL=       6.1

 *SECNO 1.479
      1.48     5.46  1240.96      .00      .00  1241.57      .61     1.79      .01  1240.00
    6273.       3.    6270.       0.       4.    1004.       0.     193.      75.   1244.00
       .36      .90     6.25      .00     .060     .040     .060     .000  1235.50  4874.48
   .003592     475.     516.     550.        2        0        0      .00   220.30  5094.78
0
 FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1240.96

 STA=    4874.    4882.    5110.
   PER Q=       .1     99.9
   AREA=       3.6   1004.0
    VEL=       .9      6.2

 *SECNO 1.593
      1.59     5.59  1243.09      .00      .00  1243.68      .59     2.12      .00  1250.00
    6273.       0.    6273.       0.       0.    1016.       0.     207.      78.   1245.01
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      .39      .00     6.17      .00     .060     .040     .060     .000  1237.50  4893.03
   .003432     603.     603.     603.        2        0        0      .00   211.51  5104.54
0
 FLOW DISTRIBUTION FOR SECNO=      1.59          CWSEL=   1243.09

 STA=    4893.    5118.
   PER Q=    100.0
    AREA=   1016.3
     VEL=      6.2

 *SECNO 1.708
      1.71     5.39  1245.39      .00      .00  1246.13      .73     2.40      .04  1250.00
    6273.       0.    6273.       0.       0.     913.       0.     220.      81.   1248.00
       .41      .00     6.87      .00     .060     .040     .060     .000  1240.00  4894.90
   .004638     605.     605.     605.        2        0        0      .00   202.94  5097.84
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.71          CWSEL=   1245.39

 STA=    4895.    5110.
   PER Q=    100.0
    AREA=    913.4
     VEL=      6.9

 *SECNO 1.789
      1.79     5.52  1247.52      .00      .00  1248.35      .83     2.19      .03  1250.00
    6273.       0.    6273.       0.       0.     859.       0.     229.      83.   1250.00
       .42      .00     7.30      .00     .060     .040     .060     .000  1242.00  4888.26
   .005780     485.     425.     390.        2        0        0      .00   205.82  5094.09
0
 FLOW DISTRIBUTION FOR SECNO=      1.79          CWSEL=   1247.52

 STA=    4888.    5104.
   PER Q=    100.0
    AREA=    859.3
     VEL=      7.3

 *SECNO 1.858
      1.86     5.70  1249.50      .00      .00  1250.13      .64     1.77      .02  1258.00
    6273.       0.    6273.       0.       0.     979.       0.     237.      85.   1252.00
       .44      .00     6.41      .00     .060     .040     .060     .000  1243.80  4916.02
   .004008     425.     370.     320.        2        0        0      .00   216.46  5132.48
0
 FLOW DISTRIBUTION FOR SECNO=      1.86          CWSEL=   1249.50

 STA=    4916.    5155.
   PER Q=    100.0
    AREA=    978.6
     VEL=      6.4

 *SECNO 1.949

 1645 INT SEC ADDED BY RAISING SEC      1.95,  -1.600FT AND MULTIPLYING BY   1.251

      1.01     5.39  1250.79      .00      .00  1251.86     1.08     1.60      .13  1254.40
    6273.       0.    6273.       0.       0.     754.       0.     242.      86.   1252.40
       .45      .00     8.33      .00     .070     .050     .070     .000  1245.60  4989.50
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   .013174     200.     240.     275.       2       0       0     .00   196.89  5186.39
0
1
  05/03/88    15:30:29                                                                    PAGE   23

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1250.79

 STA=    4990.    5231.
   PER Q=    100.0
    AREA=    753.6
     VEL=      8.3
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Deer Valley Dr.

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 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.600FT AND MULTIPLYING BY    .799

     1.95     6.64  1253.64      .00      .00  1254.55      .91     2.67      .02  1256.00
    6273.       0.    6273.       0.       0.     817.       0.     246.      87.   1254.00
      .46      .00     7.68      .00     .070     .050     .070     .000  1247.00  4907.39
  .003519     200.     240.     275.       3       0       0     .00   184.59  5095.98
0
 FLOW DISTRIBUTION FOR SECNO=      1.95          CWSEL=   1253.64

 STA=    4907.    5104.
   PER Q=    100.0
    AREA=    817.3
     VEL=      7.7

 *SECNO 2.034

 1645 INT SEC ADDED BY RAISING SEC      2.03,   -.375FT AND MULTIPLYING BY   3.757

     1.01     7.58  1254.71      .00      .00  1255.54      .83      .38      .01  1259.63
    6273.       0.    6067.     206.       0.     817.     164.     248.      98.   1253.63
      .46      .00     7.43     1.25     .070     .050     .070     .000  1247.13  6183.67
  .007954     105.     113.     115.       3       0       0     .00   477.61  6661.29
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1254.71

 STA=    6184.    6357.    6661.
   PER Q=     96.7      3.3
    AREA=    816.8    164.1
     VEL=      7.4      1.3


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .125FT AND MULTIPLYING BY    .755

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


     1.02     8.31  1255.56      .00      .00  1256.44      .89      .89      .02  1259.75
    6273.       0.    5665.     608.       0.     714.     346.     251.      89.   1253.75
      .46      .00     7.96     1.75     .070     .050     .070     .000  1247.25  5775.97
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  .007862     105.     113.     115.       3        0        0      .00   519.51  6295.38
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1255.56

 STA=    5776.    5911.    6295.
   PER Q=     90.3      9.7
   AREA=    713.6    346.3
    VEL=      7.9      1.8


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .125FT AND MULTIPLYING BY    .676

     1.03     9.00  1256.38      .00      .00  1257.49     1.11      .98      .07  1259.88
    6273.       0.    5030.    1183.       0.     548.     436.     254.      91.   1253.88
      .47      .00     9.29     2.72     .070     .050     .070     .000  1247.38  5371.10
  .009601     105.     113.     115.       4        0        0      .00   394.54  5765.64
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1256.38

 STA=    5371.    5466.    5754.    5766.
   PER Q=     81.1     18.8       .0
   AREA=    547.6    432.7      3.0
    VEL=      9.3      2.7       .8


 1645 INT SEC ADDED BY RAISING SEC      1.03,    .125FT AND MULTIPLYING BY    .521


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     2.03    10.21  1257.71  1257.71      .00  1259.38     1.67     1.32      .17  1260.00
    6273.       0.    4219.    2054.       0.     346.     425.     256.      91.   1254.00
      .47      .00    12.18     4.84     .070     .050     .070     .000  1247.50  4968.04
  .014401     105.     113.     115.      20       11        0      .00   223.33  5191.37
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.03          CWSEL=   1257.71

 STA=    4968.    5020.    5170.    5191.
   PER Q=     67.3     32.1       .7
   AREA=    346.5    406.4     18.3
    VEL=     12.2      5.0      2.3

 *SECNO 2.118

 1645 INT SEC ADDED BY RAISING SEC      2.12,   -2.333FT AND MULTIPLYING BY    .000

 3301 HV CHANGED MORE THAN HVINS

     1.01    11.43  1260.10      .00      .00  1260.61      .51     1.12      .12  1259.67
    6273.       1.    3470.    2802.       1.     492.     811.     259.      92.   1255.67
      .48      .55     7.06     3.46     .070     .050     .070     .000  1248.67  4826.42
  .005102     168.     147.     123.       7        0        0      .00   367.65  5193.08
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0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1260.10

 STA=    4826.    4832.    4912.    4998.    5097.    5136.    5160.    5194.
   PER Q=      .0     55.3     22.8     16.6      4.1      1.1       .1
    AREA=     1.1    491.7    360.9    315.2     93.2     34.3      7.4
     VEL=      .5      7.1      4.0      3.3      2.8      1.9       .5


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.167FT AND MULTIPLYING BY   1.125

      1.02    11.00  1260.83      .00      .00  1261.35      .52      .74      .00  1260.83
     6273.       0.    3639.    2634.       0.     514.     784.     263.      93.   1256.83
       .49      .00     7.07     3.36     .070     .050     .070     .000  1249.83  4885.89
   .005698     168.     147.     123.        2        0        0      .00   368.86  5254.74
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1260.83

 STA=    4886.    4976.    5073.    5185.    5228.    5255.
   PER Q=     58.0     22.4     15.4      3.5       .7
    AREA=    514.5    364.2    306.6     86.3     26.9
     VEL=      7.1      3.9      3.1      2.5      1.6

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COARR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.167FT AND MULTIPLYING BY   1.111

      2.12    10.62  1261.62      .00      .00  1262.17      .55      .81      .01  1262.00
     6273.       0.    3838.    2435.       0.     534.     755.     267.      95.   1258.00
       .49      .00     7.18     3.22     .070     .050     .070     .000  1251.00  4943.05
   .006139     168.     147.     123.        2        0        0      .00   401.23  5344.28
0
 FLOW DISTRIBUTION FOR SECNO=      2.12          CWSEL=   1261.62

 STA=    4943.    5040.    5148.    5272.    5320.    5344.
   PER Q=     61.2     21.7     13.8      2.8       .5
    AREA=    534.5    363.8    293.7     77.7     19.7
     VEL=      7.2      3.7      3.0      2.3      1.4

 *SECNO 2.208
      2.21    10.82  1263.82      .00      .00  1264.25      .43     2.07      .01  1258.00
     6023.    2499.    3120.     404.     684.     477.     219.     282.      98.   1260.00
       .52     3.65     6.53     1.85     .070     .050     .070     .000  1253.00  4831.36
   .003192     525.     475.     435.        2        0        0      .00   313.23  5144.58
0
 FLOW DISTRIBUTION FOR SECNO=      2.21          CWSEL=   1263.82

 STA=    4831.    4853.    4885.    4903.    4969.    5030.    5145.
   PER Q=      1.3      8.8      6.7     24.7     51.8      6.7
    AREA=     41.3    154.2    104.8    384.1    477.5    218.8
     VEL=      1.8      3.4      3.9      3.9      6.5      1.8

 *SECNO 2.310
      2.31    10.42  1265.92      .00      .00  1266.61      .69     2.28      .08  1262.00
     6023.    1894.    3540.     589.     591.     428.     187.     298.     103.   1262.00
       .54     3.20     8.28     3.14     .070     .050     .070     .000  1255.50  4741.63
   .005036     540.     540.     540.        2        0        0      .00   365.07  5106.71
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0
 FLOW DISTRIBUTION FOR SECNO=      2.31          CWSEL=   1265.92

 STA=    4742.    4780.    4970.    5030.    5088.    5107.
   PER Q=      1.0     30.5     58.8      9.3       .5
   AREA=      36.8    554.5    427.6    169.3     17.9
    VEL=       1.6      3.3      8.3      3.3      1.6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 2.395
      2.39     9.79  1268.29      .00      .00  1268.87      .58     2.25      .01  1264.00
    6023.     1166.    4114.     743.     398.     577.     276.     310.     106.  1264.00
       .56     2.93     7.13     2.70     .070     .050     .070     .000  1258.50  4819.91
  .004388     430.     450.     475.        2        0        0      .00   354.45  5174.36
0
 FLOW DISTRIBUTION FOR SECNO=      2.39          CWSEL=   1268.29

 STA=    4820.    4860.    4967.    5050.    5110.    5170.    5174.
   PER Q=      1.2     18.2     68.3     10.2      2.1       .0
   AREA=      45.9    352.1    577.1    197.4     77.4       .6
    VEL=       1.5      3.1      7.1      3.1      1.7       .4

 *SECNO 2.486
      2.49     7.66  1270.66      .00      .00  1271.18      .53     2.31      .00  1268.00
    6023.     358.    4814.     851.     168.     750.     335.     324.     111.  1268.00
       .59     2.13     6.42     2.54     .070     .050     .070     .000  1263.00  4817.78
  .005240     450.     480.     525.        3        0        0      .00   428.63  5246.41
0
 FLOW DISTRIBUTION FOR SECNO=      2.49          CWSEL=   1270.66

 STA=    4818.    4825.    4925.    5070.    5105.    5135.    5230.    5246.
   PER Q=       .0      5.9     79.9      4.6      3.9      5.6       .1
   AREA=       2.4    165.6    750.2     93.0     79.7    157.4      5.4
    VEL=       .7       2.2      6.4      2.9      2.9      2.2       .7

 *SECNO 2.588
      2.59     8.27  1273.77      .00      .00  1274.80     1.03     3.46      .15  1270.00
    6023.     570.    4350.    1103.     231.     464.     309.     338.     116.  1270.00
       .61     2.46     9.37     3.57     .070     .050     .070     .000  1265.50  4781.23
  .008087     540.     540.     530.        2        0        0      .00   404.33  5185.55
0
 FLOW DISTRIBUTION FOR SECNO=      2.59          CWSEL=   1273.77

 STA=    4781.    4951.    4980.    5050.    5150.    5186.
   PER Q=      4.4      5.0     72.2     17.4       .9
   AREA=     150.9     80.6    464.4    277.8     31.6
    VEL=       1.9      3.8      9.4      3.8      1.9


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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*SECNO 2.691

 1645 INT SEC ADDED BY RAISING SEC      2.69,  -1.750FT AND MULTIPLYING BY    .757

     1.01     8.56  1275.81      .00      .00  1276.50      .70     1.67      .03  1272.25
    6023.      294.    5136.     593.     121.     716.     230.     344.     118.   1272.25
      .62     2.42     7.18     2.58     .070     .050     .070     .000  1267.25  4860.82
  .004920     275.     270.     260.        2        0        0      .00   300.23  5161.05
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1275.81

 STA=    4861.    4897.    4934.    5044.    5122.    5161.
   PER Q=      .6      4.3     85.3      9.2      .6
    AREA=    28.4     92.9    715.6    199.3     30.2
     VEL=     1.3      2.8      7.2      2.8      1.3


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.750FT AND MULTIPLYING BY   1.321

     2.69     8.17  1277.17      .00      .00  1277.66      .49     1.13      .02  1274.00
    6023.      242.    5282.     499.     125.     889.     246.     352.     120.   1274.00
      .63     1.93     5.94     2.03     .070     .050     .070     .000  1269.00  4898.80
  .003637     275.     270.     260.        2        0        0      .00   371.73  5270.54
0
 FLOW DISTRIBUTION FOR SECNO=      2.69          CWSEL=   1277.17

 STA=    4899.    4935.    4983.    5129.    5232.    5271.
   PER Q=      .3      3.7     87.7      7.9      .3
    AREA=    21.1    104.1    888.6    223.3     22.5
     VEL=      .9      2.1      5.9      2.1      .9

 SECNO 2.774
     2.77     8.77  1279.27      .00      .00  1280.18      .91     2.40      .13  1278.00
    6023.       31.    4631.    1360.      21.     537.     517.     364.     125.   1276.00
      .65     1.46     8.63     2.63     .070     .050     .070     .000  1270.50  4919.38
  .008714     415.     440.     490.        3        0        0      .00   547.32  5466.70
0
 FLOW DISTRIBUTION FOR SECNO=      2.77          CWSEL=   1279.27

 STA=    4919.    4953.    5050.    5160.    5220.    5265.    5317.    5467.
   PER Q=      .5     76.9     14.2      2.0      1.5      2.5      2.3
    AREA=    21.3    536.8    249.6     61.1     45.8     66.0     95.0
     VEL=     1.5      8.6      3.4      2.0      2.0      2.3      1.5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COBRAR   TOPWID     ENDST


*SECNO 2.867

 1645 INT SEC ADDED BY RAISING SEC      2.87,  -1.750FT AND MULTIPLYING BY    .790


3301 HV CHANGED MORE THAN HVINS

     1.01     8.86  1281.11      .00      .00  1281.50      .40     1.27      .05  1278.25
    6023.    1573.    4315.     135.     730.     742.      83.     371.     128.   1278.25
      .66     2.15     5.81     1.62     .070     .050     .070     .000  1272.25  4447.73
  .002668     233.     245.     205.        3        0        0      .00   577.07  5026.81
```

```
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1281.11

 STA=    4448.    4497.    4565.    4684.    4719.    4756.    4820.    4944.    4978.    5025.
   PER Q=      .3      2.4     10.4      4.2      3.3      5.5     71.6      2.0       .2
    AREA=    20.9     93.1    279.0     99.2     89.3    148.8    742.4     63.0     20.2
     VEL=      .7      1.6      2.2      2.6      2.2      2.2      5.8      1.9       .7


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.750FT AND MULTIPLYING BY   1.267

     2.87     8.03  1282.03      .00      .00  1282.50      .47      .98      .02  1280.00
    6023.    1072.    4885.      66.     563.     811.      45.     379.     131.   1280.00
      .68     1.91     6.02     1.48     .070     .050     .070     .000  1274.00  4548.52
  .004637     233.     245.     205.        3        0        0      .00   613.87  5162.39
0
 FLOW DISTRIBUTION FOR SECNO=      2.87          CWSEL=   1282.03

 STA=    4549.    4638.    4788.    4832.    4880.    4960.    5117.    5160.
   PER Q=      .7      7.3      3.4      2.4      3.9     81.1      1.1
    AREA=    46.5    230.1     89.5     73.6    122.7    811.4     44.5
     VEL=     1.0      1.9      2.3      1.9      1.9      6.0      1.5

 *SECNO 2.937
     2.94     7.95  1283.95      .00      .00  1284.30      .35     1.78      .01  1280.00
    6023.    1105.    2517.    2401.     496.     387.     790.     393.     136.   1280.00
      .70     2.23     6.51     3.04     .070     .050     .070     .000  1276.00  4691.27
  .004498     290.     370.     540.        2        0        0      .00   614.53  5305.80
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1283.95

 STA=    4691.    4740.    4837.    4940.    4960.    5025.    5050.    5100.    5110.    5121.    5260.    5306.
   PER Q=      1.1      7.0      7.4      2.9     41.8      3.6      7.2      3.9      4.3     19.9      1.0
    AREA=    47.5    189.1    200.8     59.0    386.7     73.7    147.5     54.5     59.9    409.9     44.6
     VEL=     1.4      2.2      2.2      2.9      6.5      2.9      2.9      4.3      4.3      2.9      1.4

 *SECNO 3.011
     3.01     8.85  1285.85      .00      .00  1286.14      .29     1.84      .01  1284.00
    6023.     134.    1908.    3981.     100.     304.    1275.     408.     142.   1282.00
      .73     1.35     6.27     3.12     .070     .050     .070     .000  1277.00  4859.98
  .004472     370.     393.     430.        3        0        0      .00   563.10  5423.08
0
 FLOW DISTRIBUTION FOR SECNO=      3.01          CWSEL=   1285.85

 STA=    4860.    4968.    5021.    5171.    5370.    5400.    5423.
   PER Q=      2.2     31.7     26.5     35.1      4.0       .5
    AREA=    99.7    304.4    502.0    665.9     85.4     21.3
     VEL=     1.3      6.3      3.2      3.2      2.8      1.3

 *SECNO 3.140
     3.14     8.39  1288.69      .00      .00  1289.08      .39     2.91      .03  1286.00
    6023.     322.    2907.    2794.     159.     428.    1185.     433.     151.   1286.00
      .77     2.03     6.79     2.36     .070     .050     .070     .000  1280.30  4852.63
  .004757     715.     680.     590.        2        0        0      .00   774.95  5627.58
0
 FLOW DISTRIBUTION FOR SECNO=      3.14          CWSEL=   1288.69
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 STA=    4853.    4870.    4960.    5030.    5235.    5440.    5455.    5540.    5628.
   PER Q=      .1      5.3     48.3     15.1     15.1      1.9     10.0      3.5
    AREA=     6.0    152.5    428.4    398.7    398.7     40.4    229.1    118.0
     VEL=      .7      2.1      6.8      2.3      2.3      2.8      2.8      1.8

*SECNO 3.247

 1645 INT SEC ADDED BY RAISING SEC      3.25,  -1.000FT AND MULTIPLYING BY   1.058


 3301 HV CHANGED MORE THAN HVING

 7185 MINIMUM SPECIFIC ENERGY
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3720 CRITICAL DEPTH ASSUMED
      1.01     8.87  1290.17  1290.17      .00  1291.43     1.26     1.87      .26  1287.00
     6023.     729.     4492.     802.     217.     436.     292.     442.     155.  1287.00
       .78     3.36     10.29     2.74     .070     .050     .070     .000  1281.30  4861.35
   .009467     275.     283.     300.        3        8        0      .00   457.63  5318.99
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1290.17

 STA=    4861.    4880.    4975.    5039.    5123.    5282.    5319.
   PER Q=      .3     11.8     74.6     10.5      2.8       .0
    AREA=    10.8    206.3    436.5    183.4    105.8      3.1
     VEL=     1.4      3.5     10.3      3.5      1.6       .4


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.000FT AND MULTIPLYING BY    .945


 3301 HV CHANGED MORE THAN HVING

      3.25    10.25  1292.55      .00      .00  1292.99      .44     1.47      .09  1288.00
     6023.     979.     3368.    1676.     376.     495.     816.     451.     159.  1288.00
       .80     2.60     6.80     2.05     .070     .050     .070     .000  1292.30  4901.66
   .003250     275.     283.     300.        3        0        0      .00   677.51  5479.17
0
 FLOW DISTRIBUTION FOR SECNO=      3.25          CWSEL=   1292.55

 STA=    4802.    4840.    4870.    4960.    5020.    5100.    5250.    5460.    5479.
   PER Q=      .1      1.2     14.9     55.9     13.3     10.0      4.6       .0
    AREA=    10.5     46.4    319.3    495.4    283.8    307.2    220.0      5.3
     VEL=      .5      1.6      2.8      6.8      2.9      2.0      1.2       .5

 *SECNO 3.354
      3.35     8.29  1294.59      .00      .00  1295.06      .48     2.06      .01  1292.00
     6023.    1492.     3988.     543.     563.     607.     299.     471.     167.  1292.00
       .83     2.65     6.57     1.81     .070     .050     .070     .000  1286.30  4710.27
   .004182     550.     565.     565.        3        0        0      .00   550.38  5260.66
0
 FLOW DISTRIBUTION FOR SECNO=      3.35          CWSEL=   1294.59

 STA=    4710.    4725.    4760.    4790.    4870.    4905.    4940.    5035.    5215.    5261.
   PER Q=      .0      1.7      4.5     11.9      3.3      3.3     66.2      8.9       .1
    AREA=     4.2     55.6     93.7    247.1     91.9     91.9    607.0    286.0     17.6
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    VEL=      .6      1.9      2.9      2.9      2.4      2.4      6.6      1.9      .6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.465
     3.46     8.92  1297.42      .00      .00  1297.93      .51     2.86      .01  1294.00
    6023.    2476.     3222.     325.     985.     432.     142.     493.     176.  1294.00
      .86     2.51     7.46     2.28     .070     .050     .070     .000  1288.50  4361.81
  .005666     600.     585.     600.        1        0        0      .00   751.37  5113.18
0
 FLOW DISTRIBUTION FOR SECNO=      3.46          CWSEL=   1297.42

 STA=    4362.    4476.    4590.    4653.    4687.    4717.    4815.    4845.    4875.    4960.    5030.    5113.
   PER Q=     1.7      3.9      2.2      3.9      6.2     11.3      1.0      1.0      9.8     53.5      5.4
    AREA=    81.0    133.2     73.6     82.2    102.6    237.0     35.1     35.1    205.6    431.8    142.2
     VEL=     1.3      1.8      1.8      2.9      3.6      2.9      1.8      1.8      2.9      7.5      2.3

 *SECNO 3.563

 3265 DIVIDED FLOW

     3.56     9.65  1300.15      .00      .00  1300.78      .63     2.81      .04  1298.00
    6023.    1596.     3459.     967.     707.     424.     369.     509.     184.  1296.00
      .88     2.26     8.15     2.62     .070     .050     .070     .000  1290.50  4397.99
  .005546     460.     520.     540.        2        0        0      .00   738.91  5235.46
0
 FLOW DISTRIBUTION FOR SECNO=      3.56          CWSEL=   1300.15

 STA=    4398.    4550.    4740.    4820.    4960.    5018.    5080.    5230.    5235.
   PER Q=     4.9     17.9      2.7      1.0     57.4     11.0      5.0       .0
    AREA=   169.2    409.6     92.5     35.6    424.3    195.7    173.4       .4
     VEL=     1.7      2.6      1.7      1.7      8.2      3.4      1.7       .3

 *SECNO 3.656
     3.66    10.85  1302.85      .00      .00  1303.23      .38     2.42      .02  1300.00
    6023.    1825.     3133.    1064.     865.     480.     434.     527.     193.  1300.00
      .91     2.11     6.53     2.45     .070     .050     .070     .000  1292.00  4453.32
  .004437     490.     490.     490.        2        0        0      .00   786.95  5240.27
0
 FLOW DISTRIBUTION FOR SECNO=      3.66          CWSEL=   1302.85

 STA=    4453.    4480.    4942.    5020.    5060.    5100.    5203.    5240.
   PER Q=      .1     30.2     52.0      5.4      5.4      6.7       .2
    AREA=    11.3    853.3    480.1    113.9    113.9    190.2     15.8
     VEL=      .8      2.1      6.5      2.8      2.8      2.1       .8

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.737
     3.74    10.59  1305.00      .00      .00  1305.03      .76     2.48      .11  1302.00
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    6023.    1633.    3164.    1226.     719.     342.     375.     543.     201.   1302.00
      .93     2.27     9.27     3.26     .070     .050     .070     .000  1294.50   4343.94
  .007959     460.     425.     390.        2        0        0      .00   850.78   5194.72
0
 FLOW DISTRIBUTION FOR SECNO=      3.74          CWSEL=   1305.08

 STA=    4344.    4466.    4608.    4736.    4820.    4890.    4970.    5020.    5047.    5185.    5195.
   PER Q=      1.4      7.2      6.5      1.9      1.6      8.5     52.5      5.5     14.7       .1
    AREA=     65.9    188.9    170.3     69.7     58.1    166.4    341.5     83.2    287.1      5.3
     VEL=      1.3      2.3      2.3      1.7      1.7      3.1      9.3      4.0      3.1      1.3

 *SECNO 3.816
     3.82    11.25  1307.75      .00      .00  1308.23      .49     2.37      .03  1304.00
    6023.    1297.    3483.    1243.     830.     487.     484.     560.     211.   1304.00
      .96     1.56     7.15     2.57     .070     .050     .070     .000  1296.50   4250.39
  .004087     470.     420.     400.        2        0        0      .00   985.36   5235.75
0
 FLOW DISTRIBUTION FOR SECNO=      3.82          CWSEL=   1307.75

 STA=    4250.    4546.    4765.    4921.    4950.    4970.    5035.    5200.    5236.
   PER Q=      5.3      7.1      5.1      1.7      2.4     57.8     20.0       .6
    AREA=    257.8    272.4    194.1     50.6     54.9    487.1    452.8     31.2
     VEL=      1.2      1.6      1.6      2.0      2.7      7.2      2.7      1.2

 *SECNO 3.879
                 OUTFALL of McMicken Outlet Wall -
 3265 DIVIDED FLOW

     3.88    10.05  1309.05      .00      .00  1309.59      .54     1.34      .01  1306.00
    6023.     244.    5220.     560.     119.     835.     259.     571.     216.   1306.00
      .97     2.04     6.25     2.16     .070     .050     .070     .000  1299.00   4476.66
  .004133     380.     330.     260.        3        0        0      .00   370.87   5237.28

 FLOW DISTRIBUTION FOR SECNO=      3.88          CWSEL=   1309.05

 STA=    4477.    4909.    4960.    5100.    5222.    5237.
   PER Q=       .2      3.8     86.7      9.2       .1
    AREA=     14.6    104.7    835.0    250.6      8.1
     VEL=       .9      2.2      6.3      2.2       .9

1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 3.945
     3.94     8.38  1310.38      .00      .00  1311.20      .82     1.53      .08  1308.00
    6023.    1166.    4854.       2.     652.     604.       3.     582.     220.   1310.00
      .99     1.79     8.04      .91     .080     .035     .035     .000  1302.00   4561.70
  .004204     520.     350.     280.        3        0        0      .00   541.69   5103.39
0
 FLOW DISTRIBUTION FOR SECNO=      3.94          CWSEL=   1310.38

 STA=    4562.    4603.    4790.    4798.    4830.    4854.    4883.    4930.    4970.    5090.    5103.
   PER Q=       .1      6.4       .7      2.7      2.0      2.5      2.7      2.3     90.6       .0
    AREA=      7.9    258.5     19.1     76.2     57.2     69.1     88.5     75.3    603.9      2.6
     VEL=       .4      1.5      2.1      2.1      2.1      2.1      1.8      1.8      8.0       .9

 *SECNO 4.015
     4.01     8.77  1311.77      .00      .00  1312.54      .77     1.33      .00  1314.00
    5007        0     5007        0        0      793        0      583      334   1310.00
```

```
     1.00      .00     7.04      .00     .080     .035     .035     .000  1303.00  4970.77
   .002760     560.     370.     260.        3        0        0      .00   127.14  5097.90
0
 FLOW DISTRIBUTION FOR SECNO=      4.01          CWSEL=   1311.77

 STA=    4971.    5099.
   PER Q=    100.0
    AREA=    723.0
     VEL=      7.0

 *SECNO 4.053
     4.05     9.17  1312.67      .00      .00  1313.09      .42      .51      .04  1312.00
    5087.      16.    5070.       1.      36.     977.       1.     596.     225.   1312.00
     1.01      .44     5.19     1.00     .080     .035     .035     .000  1303.50  4841.99
   .002401     250.     200.     135.        2        0        0      .00   359.06  5201.05
0
 FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1312.67

 STA=    4842.    4950.    5197.    5201.
   PER Q=       .3     99.7       .0
    AREA=     36.5    977.0      1.4
     VEL=       .4      5.2      1.0

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4.148
     4.15     8.82  1313.32      .00      .00  1313.38      .06      .25      .04  1310.00
    5087.     307.    4780.       0.     743.    2375.       0.     620.     233.   1319.00
     1.08      .41     2.01      .00     .080     .035     .035     .000  1304.50  4448.49
   .000213     500.     500.     500.        2        0        0      .00   908.88  5357.37
0
 FLOW DISTRIBUTION FOR SECNO=      4.15          CWSEL=   1313.32

 STA=    4448.    4705.    4953.    5370.
   PER Q=       .7      5.4     94.0
    AREA=    168.7    574.2   2374.9
     VEL=       .2       .5      2.0

 *SECNO 4.254
     4.25     8.64  1313.44      .00      .00  1313.68      .24      .25      .06  1312.00
    5087.      54.    5033.       0.      95.    1261.       0.     649.     241.   1319.00
     1.12      .56     3.99      .00     .080     .035     .035     .000  1304.80  4827.19
   .001429     560.     560.     560.        2        0        0      .00   453.55  5280.74
0
 FLOW DISTRIBUTION FOR SECNO=      4.25          CWSEL=   1313.44

 STA=    4827.    4960.    5303.
   PER Q=      1.1     98.9
    AREA=     95.3   1261.4
     VEL=       .6      4.0

 *SECNO 4.360
     4.36     8.93  1313.93      .00      .00  1313.99      .06      .30      .02  1310.00
    5087.     869.    4218.       0.    1563.    1926.       0.     680.     251.   1319.50
     1.21      .56     2.19      .00     .080     .035     .035     .000  1305.00  4092.94
   .000273     550.     560.     560.        2        0        0      .00  1121.13  5214.07
0
 FLOW DISTRIBUTION FOR SECNO=      4.36          CWSEL=   1313.93
```

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 STA=    4093.    4450.    4866.    5234.
   PER Q=      2.0     15.1     82.9
    AREA=    344.6   1218.9   1925.8
     VEL=       .3       .6      2.2
```



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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4.457
     4.46     8.57  1314.07      .00      .00  1314.14      .07      .14      .00  1310.00
    5087.     760.    4327.       0.    1468.    1939.       0.     719.     265.   1320.00
     1.28      .52     2.23      .00     .090     .035     .035     .000  1305.50  3925.17
  .000284     490.     515.     525.        2        0        0      .00  1220.69  5145.86
0
 FLOW DISTRIBUTION FOR SECNO=      4.46          CWSEL=   1314.07

 STA=    3925.    4522.    4795.    5185.
   PER Q=      4.1     10.9     85.1
    AREA=    630.3    838.0   1938.4
     VEL=       .3       .7      2.2

 *SECNO 4.554
     4.55     8.41  1314.21      .00      .00  1314.30      .09      .16      .01  1310.00
    5087.     856.    4231.       0.    1243.    1578.       0.     754.     276.   1320.00
     1.34      .69     2.68      .00     .080     .035     .035     .000  1305.80  4342.67
  .000351     460.     510.     535.        2        0        0      .00   801.38  5144.05
0
 FLOW DISTRIBUTION FOR SECNO=      4.55          CWSEL=   1314.21

 STA=    4343.    4575.    4890.    5162.
   PER Q=      1.8     15.0     83.2
    AREA=    231.9   1010.9   1577.8
     VEL=       .4       .8      2.7

1
 PROFILE FOR STREAM  MCMICKEN DAM OUTLET WASH


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1160.     1180.     1200.     1220.     1240.     1260.     1280.     1300.     1320.     1340.
    SECNO   CUMDIS

      .00      0.  C     I E L        R        .         .         .         .         .         .         .         .
              50.  C     I WE.ML      R.       .         .         .         .         .         .         .         .
             100.  C     I  E.  L    R .       .         .         .         .         .         .         .         .
             150.  C      I E.   ML R  .       .         .         .         .         .         .         .         .
             200.  C      I E.    ML   .       .         .         .         .         .         .         .         .
             250.  C      I E.    RM L .       .         .         .         .         .         .         .         .
     1.01    300.  .      I E.   R  M L.       .         .         .         .         .         .         .         .
             350.  C      I  E   R  M L.       .         .         .         .         .         .         .         .
             400.  C      I  E   R  M L.       .         .         .         .         .         .         .         .
             450.  C       I E    R  M L       .         .         .         .         .         .         .         .
             500.  C       I WE   R  M L       .         .         .         .         .         .         .         .
             550.  C       I .E   R  M L       .         .         .         .         .         .         .         .
             600.  C       I  E   R  M L       .         .         .         .         .         .         .         .
```

```
      650.  C      I .E  R M .L      .         .         .         .         .         .         .
      700.  C      I .E  R M . L     .         .         .         .         .         .         .
      750.  C       I.WE R  M.  L    .         .         .         .         .         .         .
      800.  C       I.WE R  M.   L   .         .         .         .         .         .         .
 .16  850.  C       I. E R  M.    L  .         .         .         .         .         .         .
      900.  C       I. E  R  M   L   .         .         .         .         .         .         .
      950.  C       I. E  R  .M  L   .         .         .         .         .         .         .
     1000.  C       I. E   R . M L   .         .         .         .         .         .         .
     1050.  C       I. WE  R . M L   .         .         .         .         .         .         .
     1100.  C        I E   R .  ML   .         .         .         .         .         .         .
     1150.  C        I E    R.   L   .         .         .         .         .         .         .
     1200.  C        I E    R.   LM  .         .         .         .         .         .         .
     1250.  C        I E     R   L M .         .         .         .         .         .         .
 .24 1300.  C        I E     R   L M .         .         .         .         .         .         .
     1350.  C        I WE    R L  M  .         .         .         .         .         .         .
     1400.  C        I  E    R L  M  .         .         .         .         .         .         .
     1450.  C       .I  E   RL    M  .         .         .         .         .         .         .
     1500.  C       .I  E  LR.    M  .         .         .         .         .         .         .
     1550.  C       .I  E L R.    M  .         .         .         .         .         .         .
1.01 1600.  C       .I  EL  R.    M  .         .         .         .         .         .         .
     1650.  C       .I  WE  R.    M  .         .         .         .         .         .         .
     1700.  C       . I  EL R.     M .         .         .         .         .         .         .
     1750.  C       . I  EL R.     M .         .         .         .         .         .         .
     1800.  C       . I  EL  R     M .         .         .         .         .         .         .
 .35 1850.  C       . I  WE  R     M .         .         .         .         .         .         .
     1900.  C       . I   EL R     M .         .         .         .         .         .         .
     1950.  C       .  I EL  R      M.         .         .         .         .         .         .
     2000.  C       .  I EL  R      M.         .         .         .         .         .         .
     2050.  C       .  I WEL R      M.         .         .         .         .         .         .
     2100.  C       .  I WEL R      M.         .         .         .         .         .         .
     2150.  C       .  I  E LR      M.         .         .         .         .         .         .
     2200.  C       .   I E LR       M         .         .         .         .         .         .
     2250.  C       .   I E  L       M         .         .         .         .         .         .
     2300.  C       .   I WE L       M         .         .         .         .         .         .
 .44 2350.  C       .   I WE L       M         .         .         .         .         .         .
     2400.  C       .   I  E LR      M         .         .         .         .         .         .
     2450.  C       .    I E LR      M         .         .         .         .         .         .
     2500.  C       .    I E L R     M         .         .         .         .         .         .
     2550.  C       .    I E L R     M         .         .         .         .         .         .
     2600.  C       .    I WEL  R    M         .         .         .         .         .         .
     2650.  C       .     I WEL  R   M         .         .         .         .         .         .
     2700.  C       .     I EL   R   M         .         .         .         .         .         .
     2750.  C       .     I EL   R   M         .         .         .         .         .         .
 .53 2800.  C       .      I EL   R  M         .         .         .         .         .         .
     2850.  C       .     I WE    L  RM        .         .         .         .         .         .
1.01 2900.  C       .     I  E      L R        .         .         .         .         .         .
1.02 2950.  C       .     I  E      L R        .         .         .         .         .         .
1.03 3000.  C       .     I  E      L R        .         .         .         .         .         .
     3050.  C       .     I  E      L R        .         .         .         .         .         .
 .58 3100.  C       .     I  E      L R        .         .         .         .         .         .
     3150.  C       .     I  WE     LRM        .         .         .         .         .         .
     3200.  C       .      I WE     LR.M       .         .         .         .         .         .
     3250.  C       .      I .E     L .M       .         .         .         .         .         .
     3300.  C       .      I .E    RL .M       .         .         .         .         .         .
     3350.  C       .      I .E    RL .M       .         .         .         .         .         .
     3400.  C       .       I .E   R L . M     .         .         .         .         .         .
 .65 3450.  C       .       I .WE  R  L. M     .         .         .         .         .         .
     3500.  C       .       I .WE  R L . M     .         .         .         .         .         .
     3550.  C       .       I . E  R L . M     .         .         .         .         .         .
     3600.  C       .       I . E  RL  . M     .         .         .         .         .         .
     3650.  C       .       I . E  L   . M     .         .         .         .         .         .
1.01 3700.  C       .        I. E L    . M     .         .         .         .         .         .
     3750.  C       .        I. E L    . M     .         .         .         .         .         .
     3800.  C       .        I. E  L   .  M    .         .         .         .         .         .
     3850.  C       .        I. WE L   .  M    .         .         .         .         .         .
     3900.  C       .        I. WE L      M
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 .75 3950. C        .        I. WE L   . M      .         .         .         .         .         .         .
     4000. C        .        I. WE L   . M      .         .         .         .         .         .         .
     4050. C        .        I.  E L   . M      .         .         .         .         .         .         .
     4100. C        .        I.  E L   . M      .         .         .         .         .         .         .
     4150. C        .         I  E L   . M      .         .         .         .         .         .         .
     4200. C        .         I  E L   . M      .         .         .         .         .         .         .
     4250. C        .         I  WEL   . M      .         .         .         .         .         .         .
     4300. C        .         I  WEL   .M       .         .         .         .         .         .         .
     4350. C        .         I  WEL   .M       .         .         .         .         .         .         .
 .83 4400. C        .         I   EL   .M       .         .         .         .         .         .         .
     4450. C        .         I   EL   .M       .         .         .         .         .         .         .
     4500. C        .         I   EL   . M      .         .         .         .         .         .         .
     4550. C        .         I   ERL  . M      .         .         .         .         .         .         .
     4600. C        .         I   ERL  . M      .         .         .         .         .         .         .
     4650. C        .        .I   ERL  . M      .         .         .         .         .         .         .
     4700. C        .        .I   WEL  .  M     .         .         .         .         .         .         .
     4750. C        .        .I   WEL  .  M     .         .         .         .         .         .         .
     4800. C        .        .I   WEL  .  M     .         .         .         .         .         .         .
     4850. C        .        .I   WE L .  M     .         .         .         .         .         .         .
     4900. C        .        .I    E L .   M    .         .         .         .         .         .         .
     4950. C        .        .I    E L .   M    .         .         .         .         .         .         .
 .95 5000. C        .        .I    E L .   M    .         .         .         .         .         .         .
     5050. C        .        .I    E L .   M    .         .         .         .         .         .         .
     5100. C        .        .I    ER L .   M   .         .         .         .         .         .         .
     5150. C        .        . I   ER L .   M   .         .         .         .         .         .         .
     5200. C        .        . I   WERL .   M   .         .         .         .         .         .         .
     5250. C        .        . I   WERL .   M   .         .         .         .         .         .         .
     5300. C        .        . I   WE RL.    M  .         .         .         .         .         .         .
     5350. C        .        . I    E RL.    M  .         .         .         .         .         .         .
     5400. C        .        . I    E RL.    M  .         .         .         .         .         .         .
     5450. C        .        . I    E  L.    M  .         .         .         .         .         .         .
     5500. C        .        . I    E  RL     M .         .         .         .         .         .         .
     5550. C        .        . I    E   L     M .         .         .         .         .         .         .
1.06 5600. C        .        .  I   E   L     M .         .         .         .         .         .         .
     5650. C        .        .  I   E   L     M .         .         .         .         .         .         .
     5700. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     5750. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     5800. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     5850. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     5900. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     5950. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     6000. C        .        .  I   WE  L     M .         .         .         .         .         .         .
     6050. C        .        .  I    E  L     M .         .         .         .         .         .         .
     6100. C        .        .   I  E  L      M .         .         .         .         .         .         .
     6150. C        .        .   I  E  L      M .         .         .         .         .         .         .
1.17 6200. C        .        .   I  E  L       M.         .         .         .         .         .         .
1.01 6250. .        .        .   I  WE L      M .         .         .         .         .         .         .
1.19 6300. .        .        .   I   WEL       M.         .         .         .         .         .         .
1.01 6350. C        .        .   I    EL       M.         .         .         .         .         .         .
1.02 6400. C        .        .   I    EL       M.         .         .         .         .         .         .
1.21 6450. C        .        .    I   EL       M.         .         .         .         .         .         .
1.01 6500. C        .        .     I  E. L M    .         .         .         .         .         .         .
1.02 6550. .        .        .      I WE L M    .         .         .         .         .         .         .
1.25 6600. .        .        .        IWE  L M  .         .         .         .         .         .         .
     6650. .        .        .        .I WE L M.         .         .         .         .         .         .
     6700. .        .        .         .  I WERL.         .         .         .         .         .         .
     6750. .        .        .         .   IWERL.         .         .         .         .         .         .
1.29 6800. .        .        .         .    IWEML         .         .         .         .         .         .
     6850. C        .        .         .    I EL.         .         .         .         .         .         .
1.31 6900. C        .        .         .    I WEM         .         .         .         .         .         .
     6950. C        .        .         .    I LEM         .         .         .         .         .         .
     7000. C        .        .         .    I  EM         .         .         .         .         .         .
     7050. C        .        .         .    I  E.M        .         .         .         .         .         .
1.01 7100. C        .        .         .    I  WEM        .         .         .         .         .         .
     7150. C        .        .         .     I WEM        .         .         .         .         .         .
     7200. C                                  I WEM
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      7250.  C     .    .    .   I EM     .    .    .    .    .    .
 1.38 7300.  C     .    .    .   I EM     .    .    .    .    .    .
      7350.  C     .    .    .   I EM     .    .    .    .    .    .
      7400.  C     .    .    .   I EM     .    .    .    .    .    .
      7450.  C     .    .    .   I ERM    .    .    .    .    .    .
      7500.  C     .    .    .   I ERM    .    .    .    .    .    .
      7550.  C     .    .    .   I ERM    .    .    .    .    .    .
      7600.  C     .    .    .   I ERM    .    .    .    .    .    .
      7650.  C     .    .    .   I ERM    .    .    .    .    .    .
      7700.  C     .    .    .    I WER   .    .    .    .    .    .
      7750.  C     .    .    .    I WER   .    .    .    .    .    .
 1.48 7800.  C     .    .    .    I WERM  .    .    .    .    .    .
      7850.  C     .    .    .    I LERM  .    .    .    .    .    .
      7900.  C     .    .    .    I .ERM  .    .    .    .    .    .
      7950.  C     .    .    .    I .ERM  .    .    .    .    .    .
      8000.  C     .    .    .    I .ELM  .    .    .    .    .    .
      8050.  C     .    .    .    I .ELM  .    .    .    .    .    .
      8100.  C     .    .    .    I .ELM  .    .    .    .    .    .
      8150.  C     .    .    .    I .E L  .    .    .    .    .    .
      8200.  C     .    .    .    I .E L  .    .    .    .    .    .
      8250.  C     .    .    .    I .WERL .    .    .    .    .    .
      8300.  C     .    .    .     I.WERL .    .    .    .    .    .
      8350.  C     .    .    .     I.WER L .    .    .    .    .    .
 1.59 8400.  C     .    .    .     I. ERML .    .    .    .    .    .
      8450.  C     .    .    .     I. ERML .    .    .    .    .    .
      8500.  C     .    .    .     I. ERML .    .    .    .    .    .
      8550.  C     .    .    .     I. ERML .    .    .    .    .    .
      8600.  C     .    .    .     I. ERML .    .    .    .    .    .
      8650.  C     .    .    .     I. ERML .    .    .    .    .    .
      8700.  C     .    .    .     I. ERML .    .    .    .    .    .
      8750.  C     .    .    .     I. WERL .    .    .    .    .    .
      8800.  C     .    .    .      I WERL .    .    .    .    .    .
      8850.  C     .    .    .      I WERL .    .    .    .    .    .
      8900.  C     .    .    .      I WERL .    .    .    .    .    .
      8950.  C     .    .    .      I  ERL .    .    .    .    .    .
      9000.  C     .    .    .      I  ERL .    .    .    .    .    .
 1.71 9050.  C     .    .    .      I  ERL .    .    .    .    .    .
      9100.  C     .    .    .      I  ERL .    .    .    .    .    .
      9150.  C     .    .    .      I  ERL .    .    .    .    .    .
      9200.  C     .    .    .      I  ERL .    .    .    .    .    .
      9250.  C     .    .    .      I  WEL .    .    .    .    .    .
      9300.  C     .    .    .     .I WEL  .    .    .    .    .    .
      9350.  C     .    .    .     .I WEL  .    .    .    .    .    .
      9400.  C     .    .    .     .I  EL  .    .    .    .    .    .
 1.79 9450.  C     .    .    .     .I  ELM .    .    .    .    .    .
      9500.  C     .    .    .     .I  ERL .    .    .    .    .    .
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      9900.  C     .    .    .     . I  ER L .    .    .    .    .    .
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     10000.  C     .    .    .     .  I WE L M    .    .    .    .    .
 1.01 10050. C     .    .    .     .  I WEL  .M   .    .    .    .    .
     10100.  C     .    .    .     .  I  EL  .M   .    .    .    .    .
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     10500.  C                      .   I  RE / M
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     10700.  C                                I  RWEL M
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2.12 11200.  C                                 I  R.E M
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     12800.  C                                     I  L E
     12850.  C                                     I  L EM
     12900.  C                                     I  L EM
     12950.  C                                     .I L EM
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2.49 13150.  C                                     . I LWEM
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     13750.  C                                     .  I L WE
     13800.  C                                        I L WE
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      23700.  C                       I L EM R
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    4.55 24050.  C        .        .        .        .        .        .        .  I L EM R        .        .
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 05/03/88    15:30:29                                                                                    PAGE   37


                                                                                THIS RUN EXECUTED 05/03/88   15:33:18
*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
*************************************************


T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
T2      100-YEAR STORM EVENT (ENCROACHMENT USED)
T3      MCMICKEN DAM OUTLET WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0.       3.       0.       0.   .000000     .00       .5       0.  1176.980     .000

MULTIPLE PROFILE RUN WITH INTERPOLATED CROSS SECTIONS
J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2.000     .000   -1.000     .000     .000     .000     .000     .000     .000   15.000

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


*PROF 2

CCHV=    .100 CEHV=    .300
*SECNO  .000
 2800 NAT Q1=   1240.49  WSEL=   1176.64  ENC Q1=   2394.86  WSEL=   1177.64  RATIO=  -.9306
 NAT Q1=   2395.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1177.64

3470 ENCROACHMENT STATIONS=    4010.0    5062.0  TYPE=     4  TARGET=       .000
     .00     4.98  1176.98     .00  1176.64  1177.09     .11     .00     .00  1180.00
    6522.      0.    6522.      0.       0.    2413.      0.       0.      0.   1200.00
     .00     .00     2.70     .00     .060     .040     .060    .000  1172.00  4023.59
  .001659      0.       0.      0.       0        0        0     .00  1010.32  5033.91

FLOW DISTRIBUTION FOR SECNO=       .00         CWSEL=   1176.98

STA=    4024.    5062.
  PER Q=    100.0
   AREA=   2413.0
    VEL=      2.7

*SECNO  .187
```

```
 2800 NAT Q1=    872.10  WSEL=   1181.69  ENC Q1=   1745.95  WSEL=   1182.69  RATIO= -1.0020
 NAT Q1=   1746.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1182.69

 3301 HV CHANGED MORE THAN HVING

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=    4282.0    5268.0  TYPE=     4  TARGET=        .000
      .11     5.02  1181.02  1181.02  1181.69  1181.68      .65     2.32      .16  1200.00
    6522.       0.    6522.       0.       0.    1005.       0.      22.      12.   1190.00
      .02      .00     6.49      .00     .060     .040     .060     .000  1176.00  4426.89
  .022812     950.     564.     510.       20        5        0      .00   806.99  5233.88
0
 FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1181.02

 STA=    4427.    5268.
   PER Q=    100.0
    AREA=   1005.1
     VEL=      6.5

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .159
  2800 NAT Q1=    708.53  WSEL=   1183.46  ENC Q1=   1439.27  WSEL=   1184.46  RATIO= -1.0314
  NAT Q1=   1439.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1184.46

 3470 ENCROACHMENT STATIONS=    4355.0    5150.0  TYPE=     4  TARGET=        .000
      .16     5.83  1183.83      .00  1183.46  1184.12      .29     2.41      .04  1210.00
    6522.       0.    6522.       0.       0.    1519.       0.      30.      16.   1190.00
      .04      .00     4.29      .00     .060     .040     .060     .000  1178.00  4436.36
  .004617     130.     274.     350.        5        0        0      .00   683.76  5120.12
0
 FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1183.83

 STA=    4436.    5150.
   PER Q=    100.0
    AREA=   1519.1
     VEL=      4.3

 *SECNO  .238
  2800 NAT Q1=    986.33  WSEL=   1186.39  ENC Q1=   1713.23  WSEL=   1187.39  RATIO=  -.9330
  NAT Q1=   1713.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1187.39

 3470 ENCROACHMENT STATIONS=    4500.0    5503.0  TYPE=     4  TARGET=        .000
      .24     5.98  1185.98      .00  1186.39  1186.44      .46     2.27      .05  1210.00
    6522.       0.    6522.       0.       0.    1200.       0.      43.      22.   1200.00
      .06      .00     5.44      .00     .060     .040     .060     .000  1180.00  4552.75
  .006454     140.     418.     575.        2        0        0      .00   486.96  5039.71

 FLOW DISTRIBUTION FOR SECNO=       .24          CWSEL=   1185.99

 STA=    4553.    5503.
   PER Q=    100.0
    AREA=   1199.6
     VEL=      5.4
```

```
*SECNO  .350
 2800 NAT Q1=    683.12  WSEL=   1190.95  ENC Q1=   1126.22  WSEL=   1191.95  RATIO=  -.6487
 NAT Q1=   1166.  RATIOS LOB,CH,ROB=   .0338   .9662   .0000  WSEL=   1191.95

3470 ENCROACHMENT STATIONS=    4855.0    5428.0  TYPE=     4  TARGET=        .034
      .35     6.25  1190.75      .00  1190.95  1191.58      .83     5.03      .11  1192.50
    6522.       0.    6522.       0.       0.     893.       0.      57.      28.   1200.00
      .09      .00     7.30      .00     .060     .040     .060     .000  1184.50  4897.02
   .011780     480.     590.     760.        3        0        0      .00   365.47  5262.49
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=       .35          CWSEL=   1190.75

STA=    4897.    5428.
  PER Q=    100.0
   AREA=    893.3
    VEL=      7.3

*SECNO  .437
 2800 NAT Q1=    817.66  WSEL=   1194.55  ENC Q1=   1408.27  WSEL=   1195.65  RATIO=  -.7223
 NAT Q1=   1408.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1195.65

3470 ENCROACHMENT STATIONS=    4970.0    5450.0  TYPE=     4  TARGET=        .000
      .44     6.76  1194.76      .00  1194.65  1195.19      .44     3.58      .04  1200.00
    6522.       0.    6522.       0.       0.    1229.       0.      68.      32.   1200.00
      .11      .00     5.31      .00     .060     .040     .060     .000  1188.00  4977.86
   .005538     470.     459.     450.        4        0        0      .00   453.65  5436.52
0
FLOW DISTRIBUTION FOR SECNO=       .44          CWSEL=   1194.76

STA=    4978.    5450.
  PER Q=    100.0
   AREA=   1227.7
    VEL=      5.3

*SECNO  .527
 2800 NAT Q1=    687.74  WSEL=   1199.15  ENC Q1=   1117.91  WSEL=   1199.15  RATIO=  -.6255
 NAT Q1=   1118.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1199.15

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    4603.0    5200.0  TYPE=     4  TARGET=        .000
      .53     5.07  1198.07      .00  1198.15  1198.74      .67     3.47      .07  1200.00
    6522.       0.    6522.       0.       0.     994.       0.      81.      37.   1210.00
      .13      .00     6.56      .00     .060     .040     .060     .000  1193.00  4657.17
   .009851     525.     480.     150.        2        0        0      .00   418.14  5175.33
0
FLOW DISTRIBUTION FOR SECNO=       .53          CWSEL=   1198.07

STA=    4657.    5200.
  PER Q=    100.0
   AREA=    994.0
    VEL=      6.6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .579
  2900 NAT Q1=    583.53  WSEL=   1200.11  ENC Q1=   1112.34  WSEL=   1201.11  RATIO=  -.8868
  NAT Q1=   1112.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1201.11

 3470 ENCROACHMENT STATIONS=    4465.0    5062.0  TYPE=     4  TARGET=        .000
       .58     8.01  1200.51  1199.72  1200.11  1201.00     .49     2.24     .02  1216.00
     6522.       0.    6522.       0.       0.    1164.      0.      97.     40.   1220.00
       .14     .00     5.60     .00     .060     .040     .060     .000  1192.50  4552.77
   .006959     435.     273.     150.       8       14       0      .00   477.73  5030.51
0
 FLOW DISTRIBUTION FOR SECNO=       .58          CWSEL=   1200.51

 STA=    4553.    5062.
   PER Q=    100.0
    AREA=   1164.4
     VEL=      5.6

 *SECNO  .647
  2800 NAT Q1=   1052.14  WSEL=   1202.68  ENC Q1=   1476.24  WSEL=   1203.68  RATIO=  -.4031
  NAT Q1=   1476.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1203.68

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    4686.0    5228.0  TYPE=     4  TARGET=        .000
       .65     6.48  1202.48      .00  1202.68  1202.96     .48     1.97     .00  1217.00
     6522.       0.    6522.       0.       0.    1170.      0.      97.     43.   1210.00
       .16     .00     5.57     .00     .060     .040     .060     .000  1196.00  4746.00
   .004401     265.     360.     398.       3        0        0      .00   343.62  5180.64
0
 FLOW DISTRIBUTION FOR SECNO=       .65          CWSEL=   1202.48

 STA=    4746.    5228.
   PER Q=    100.0
    AREA=   1170.4
     VEL=      5.6

 *SECNO  .746
  2800 NAT Q1=    901.52  WSEL=   1204.67  ENC Q1=   1094.43  WSEL=   1205.67  RATIO=  -.3654
  NAT Q1=   1094.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1205.67
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=    4880.0    5109.0  TYPE=     4  TARGET=        .000
       .75     6.31  1204.81      .00  1204.67  1205.79     .97     2.67     .15  1210.00
     6522.       0.    6522.       0.       0.     825.      0.     109.     46.   1210.00
       .19     .00     7.91     .00     .060     .040     .060     .000  1199.50  4905.95
   .006039     250.     521.     690.       2        0        0      .00   180.98  5086.94
0
 FLOW DISTRIBUTION FOR SECNO=       .75          CWSEL=   1204.81
```

```
STA=    4906.    5109.
  PER Q=    100.0
   AREA=    824.7
    VEL=      7.9

*SECNO  .833
 2800 NAT Q1=   1101.55  WSEL=   1207.27  ENC Q1=   1467.87  WSEL=   1209.27  RATIO=  -.3325
 NAT Q1=   1468.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1208.27

3470 ENCROACHMENT STATIONS=    4882.0    5116.0  TYPE=     4  TARGET=        .000
      .83     7.26  1207.26      .00  1207.27  1207.89      .62     2.07      .03  1210.00
    6522.       0.    6522.       0.       0.    1028.       0.     119.      48.   1210.00
      .20      .00     6.34      .00     .060     .040     .060     .000  1200.00  4894.33
  .003523     475.     457.     457.        3        0        0      .00   209.80  5104.13
0
 FLOW DISTRIBUTION FOR SECNO=       .83          CWSEL=   1207.26

 STA=    4894.    5116.
   PER Q=    100.0
    AREA=   1038.1
     VEL=      6.3

 *SECNO  .946
  2800 NAT Q1=    989.20  WSEL=   1209.53  ENC Q1=   1341.58  WSEL=   1210.53  RATIO=  -.3562
  NAT Q1=   1342.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1210.53

 3470 ENCROACHMENT STATIONS=    4870.0    5090.0  TYPE=     4  TARGET=        .000
      .95     7.03  1209.53      .00  1209.53  1210.26      .73     2.34      .03  1214.00
    6522.       0.    6522.       0.       0.     948.       0.     132.      51.   1210.00
      .22      .00     6.88      .00     .060     .040     .060     .000  1202.50  4886.78
  .004348     640.     600.     600.        2        0        0      .00   200.73  5087.51

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1209.53

 STA=    4887.    5090.
   PER Q=    100.0
    AREA=    948.4
     VEL=      6.9

 *SECNO 1.058
  2800 NAT Q1=    986.11  WSEL=   1212.09  ENC Q1=   1345.26  WSEL=   1213.09  RATIO=  -.3642
  NAT Q1=   1345.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1213.09

 3470 ENCROACHMENT STATIONS=    4853.0    5140.0  TYPE=     4  TARGET=        .000
     1.06     7.09  1212.09      .00  1212.09  1212.75      .66     2.48      .01  1220.00
    6273.       0.    6273.       0.       0.     962.       0.     145.      54.   1220.00
      .25      .00     6.52      .00     .060     .040     .060     .000  1205.00  4903.48
  .004046     591.     591.     591.        2        0        0      .00   208.83  5112.30
0
 FLOW DISTRIBUTION FOR SECNO=      1.06          CWSEL=   1212.09

 STA=    4903.    5140.
   PER Q=    100.0
    AREA=    961.9
     VEL=      6.5
```

```
*SECNO 1.169
 2800 NAT Q1=   1568.98  WSEL=   1213.29  ENC Q1=   2165.73  WSEL=   1214.29  RATIO=  -.3903
 NAT Q1=   2166.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1214.29

 3470 ENCROACHMENT STATIONS=    4880.0    5120.0  TYPE=     4  TARGET=        .000
      1.17     5.79  1213.29      .00  1213.29  1214.25      .96     1.41      .09  1220.00
    6273.       0.    6273.       0.       0.     797.       0.     157.      57.   1220.00
      .27      .00     7.87      .00     .050     .020     .050     .000  1207.50  4909.37
   .001599     585.     585.     585.        3        0        0      .00   183.78  5093.15
0
 FLOW DISTRIBUTION FOR SECNO=      1.17          CWSEL=   1213.29

 STA=    4909.    5120.
   PER Q=    100.0
    AREA=    796.6
     VEL=      7.9

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 1.191
 2800 NAT Q1=    951.77  WSEL=   1216.02  ENC Q1=   1491.22  WSEL=   1217.02  RATIO=  -.5668
 NAT Q1=   1491.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1217.02

 3301 HV CHANGED MORE THAN HVING

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=    4890.0    5120.0  TYPE=     4  TARGET=        .000
      1.19     7.52  1216.02  1216.02  1216.02  1217.67     1.64      .28      .20  1220.00
    6273.       0.    6273.       0.       0.     610.       0.     159.      57.   1220.00
      .27      .00    10.28      .00     .050     .020     .050     .000  1208.50  4903.25
   .004322     115.     115.     115.       20       14        0      .00   197.54  5100.79
0
 FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1216.02

 STA=    4903.    5120.
   PER Q=    100.0
    AREA=    610.0
     VEL=     10.3

 *SECNO 1.213
 2800 NAT Q1=   3700.00  WSEL=   1217.60  ENC Q1=   4626.96  WSEL=   1218.60  RATIO=  -.2505
 NAT Q1=   4627.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1218.60

 3301 HV CHANGED MORE THAN HVING

 3470 ENCROACHMENT STATIONS=    4880.0    5122.0  TYPE=     4  TARGET=        .000
      1.21     8.60  1217.60      .00  1217.60  1217.89      .29      .09      .14  1220.00
    6273.       0.    6273.       0.       0.    1448.       0.     162.      58.   1220.00
      .28      .00     4.33      .00     .050     .020     .050     .000  1209.00  4886.01
   .000289     117.     117.     117.        3        0        0      .00   226.37  5112.38
0
 FLOW DISTRIBUTION FOR SECNO=      1.21          CWSEL=   1217.60
```

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STA=    4886.    5122.
  PER Q=    100.0
   AREA=   1448.0
    VEL=      4.3

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.251
 2900 NAT Q1=    986.96  WSEL=   1222.81  ENC Q1=   1544.69  WSEL=   1223.81  RATIO=  -.5651
 NAT Q1=   1545.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1223.81

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    4870.0    5130.0  TYPE=     4  TARGET=        .000
     1.25     3.90  1222.80  1222.80  1222.81  1224.36     1.56      .14      .39  1230.00
    6273.       0.    6273.       0.       0.     625.       0.     166.      59.   1230.00
      .29      .00    10.03      .00     .050     .020     .050     .000  1219.00  4891.60
  .004070     190.     190.     190.       20       14        0      .00   202.40  5094.00
0
FLOW DISTRIBUTION FOR SECNO=      1.25          CWSEL=   1222.90

STA=    4892.    5130.
  PER Q=    100.0
   AREA=    625.3
    VEL=     10.0

*SECNO 1.286
 2900 NAT Q1=    483.75  WSEL=   1234.89  ENC Q1=    779.92  WSEL=   1235.89  RATIO=  -.6102
 NAT Q1=    779.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1235.89
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    4860.0    5121.0  TYPE=     4  TARGET=        .000
     1.29     3.89  1234.89  1234.89  1234.89  1236.33     1.44     1.32      .01  1240.00
    6273.       0.    6273.       0.       0.     651.       0.     169.      60.   1236.00
      .29      .00     9.63      .00     .060     .040     .060     .000  1231.00  4878.74
  .016804     180.     180.     180.       20        8        0      .00   230.05  5108.79
0
FLOW DISTRIBUTION FOR SECNO=      1.29          CWSEL=   1234.89

STA=    4879.    5121.
  PER Q=    100.0
   AREA=    651.4
    VEL=      9.6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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*SECNO 1.307
 2800 NAT Q1=    618.63  WSEL=   1236.70  ENC Q1=    947.85  WSEL=   1237.70  RATIO=  -.5322
 NAT Q1=    954.  RATIOS LOB,CH,ROB=   .0016   .9933   .0050  WSEL=   1237.70

3470 ENCROACHMENT STATIONS=    4885.0    5100.0  TYPE=     4  TARGET=        .007
     1.31      4.40  1236.70      .00  1236.70  1237.83     1.13     1.47      .03  1236.00
    6273.        0.    6273.       0.       0.     736.       0.     171.      60.   1236.00
      .29      .00      8.53      .00     .060     .040     .060     .000  1232.30  4885.00
  .010348     113.     113.     113.        3        0        0      .00   215.00  5100.00
0
 FLOW DISTRIBUTION FOR SECNO=      1.31          CWSEL=   1236.70

 STA=    4885.    5100.
   PER Q=    100.0
    AREA=    735.6
     VEL=      8.5

 *SECNO 1.381
 2800 NAT Q1=   1092.18  WSEL=   1239.19  ENC Q1=   1459.55  WSEL=   1240.19  RATIO=  -.3497
 NAT Q1=   1460.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1240.19

 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=    4875.0    5100.0  TYPE=     4  TARGET=        .000
     1.38      5.86  1239.36      .00  1239.19  1239.89      .54     2.00      .06  1240.00
    6273.        0.    6273.       0.       0.    1068.       0.     179.      62.   1240.00
      .31      .00      5.87      .00     .060     .040     .060     .000  1233.50  4879.19
  .003034     395.     392.     380.        3        0        0      .00   218.55  5097.74
0
 FLOW DISTRIBUTION FOR SECNO=      1.38          CWSEL=   1239.36

 STA=    4879.    5100.
   PER Q=    100.0
    AREA=   1068.1
     VEL=      5.9

 *SECNO 1.479
 2800 NAT Q1=   1046.64  WSEL=   1240.96  ENC Q1=   1425.83  WSEL=   1241.96  RATIO=  -.3623
 NAT Q1=   1430.  RATIOS LOB,CH,ROB=   .0026   .9974   .0000  WSEL=   1241.96
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=    4882.0    5110.0  TYPE=     4  TARGET=        .003
     1.48      5.50  1241.00      .00  1240.96  1241.60      .60     1.69      .02  1240.00
    6273.        0.    6273.       0.       0.    1012.       0.     191.      65.   1244.00
      .34      .00      6.20      .00     .060     .040     .060     .000  1235.50  4882.00
  .003529     475.     516.     550.        2        0        0      .00   212.96  5094.96

 FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1241.00

 STA=    4882.    5110.
   PER Q=    100.0
    AREA=   1011.9
     VEL=      6.2
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*SECNO 1.593
 2800 NAT Q1=   1070.78  WSEL=   1243.09  ENC Q1=   1439.67  WSEL=   1244.09  RATIO=  -.3445
 NAT Q1=   1440.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1244.09

3470 ENCROACHMENT STATIONS=    4870.0    5118.0  TYPE=     4  TARGET=        .000
     1.59     5.60  1243.10      .00  1243.09  1243.69      .59     2.09      .00  1250.00
    6273.       0.    6273.       0.       0.    1018.       0.     205.      68.   1246.00
      .36      .00     6.16      .00     .060     .040     .060     .000  1237.50  4893.01
  .003416     603.     603.     603.        2        0        0      .00   211.57  5104.58
0
FLOW DISTRIBUTION FOR SECNO=      1.59          CWSEL=   1243.10

STA=    4893.    5118.
  PER Q=    100.0
   AREA=   1017.8
    VEL=      6.2

*SECNO 1.708
 2800 NAT Q1=    921.13  WSEL=   1245.39  ENC Q1=   1262.50  WSEL=   1246.39  RATIO=  -.3706
 NAT Q1=   1263.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1246.39

3470 ENCROACHMENT STATIONS=    4882.0    5110.0  TYPE=     4  TARGET=        .000
     1.71     5.39  1245.39      .00  1245.39  1246.13      .73     2.39      .04  1250.00
    6273.       0.    6273.       0.       0.     913.       0.     219.      70.   1248.00
      .39      .00     6.87      .00     .060     .040     .060     .000  1240.00  4894.90
  .004639     605.     605.     605.        2        0        0      .00   202.94  5097.84
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.71          CWSEL=   1245.39

STA=    4895.    5110.
  PER Q=    100.0
   AREA=    913.3
    VEL=      6.9

*SECNO 1.788
 2800 NAT Q1=    825.13  WSEL=   1247.52  ENC Q1=   1150.86  WSEL=   1248.52  RATIO=  -.4044
 NAT Q1=   1159.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1248.52

3470 ENCROACHMENT STATIONS=    4888.0    5104.0  TYPE=     4  TARGET=        .000
     1.79     5.52  1247.52      .00  1247.52  1248.35      .83     2.19      .03  1250.00
    6273.       0.    6273.       0.       0.     859.       0.     227.      72.   1250.00
      .40      .00     7.30      .00     .060     .040     .060     .000  1242.00  4888.26
  .005779     485.     425.     390.        2        0        0      .00   205.83  5094.09
0
FLOW DISTRIBUTION FOR SECNO=      1.79          CWSEL=   1247.52

STA=    4888.    5104.
  PER Q=    100.0
   AREA=    859.4
    VEL=      7.3

*SECNO 1.858
 2800 NAT Q1=    930.86  WSEL=   1249.50  ENC Q1=   1344.77  WSEL=   1250.50  RATIO=  -.3572
 NAT Q1=   1345.  RATIOS LOB,CH,ROB=   .0000  1.0000   .0000  WSEL=   1250.50

3470 ENCROACHMENT STATIONS=    4892.0    5155.0  TYPE=     4  TARGET=        .000
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     1.86      5.70  1249.50      .00  1249.50  1250.13      .64      1.77      .02  1258.00
    6273.        0.    6273.       0.       0.     979.       0.      235.      74.   1252.00
      .42       .00     6.41      .00     .060     .040     .060      .000  1243.80  4916.02
  .004009      425.     370.     320.        2        0        0       .00   216.46  5132.48
0
 FLOW DISTRIBUTION FOR SECNO=      1.86          CWSEL=   1243.50

 STA=    4916.    5155.
   PER Q=    100.0
    AREA=    978.6
     VEL=      6.4

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 1.949
  2900 NAT Q1=    642.95  WSEL=   1253.54  ENC Q1=    886.10  WSEL=   1254.64  RATIO=  -.3782
  NAT Q1=    887.  RATIOS LOB,CH,ROB=   .0000   .9995   .0005  WSEL=   1254.64

 3301 HV CHANGED MORE THAN HVING

 3470 ENCROACHMENT STATIONS=    4900.0    5104.0  TYPE=     4  TARGET=        .001
     1.95      5.46  1252.46      .00  1253.64  1254.08     1.62      3.66      .29  1256.00
    6273.        0.    6273.       0.       0.     614.       0.      244.      76.   1254.00
      .43       .00    10.22      .00     .070     .050     .070      .000  1247.00  4911.04
  .019702      400.     480.     550.        2        0        0       .00   153.22  5070.26
0
 FLOW DISTRIBUTION FOR SECNO=      1.95          CWSEL=   1252.46

 STA=    4911.    5104.
   PER Q=    100.0
    AREA=    614.0
     VEL=     10.2

 *SECNO 2.034

 3470 ENCROACHMENT STATIONS=    4970.0    5150.0  TYPE=     1  TARGET=     180.000
     2.03     11.11  1258.61  1257.66  1257.71  1259.77     1.16      5.64      .05100000.00
    6273.        0.    3999.    2274.       0.     390.     486.      252.      78.   1254.00
      .45       .00    10.24     4.68     .070     .050     .070      .000  1247.50  4970.00
  .008611      420.     450.     460.        7       14        0       .00   180.00  5150.00
0
 FLOW DISTRIBUTION FOR SECNO=      2.03          CWSEL=   1258.61

 STA=    4970.    5020.    5150.
   PER Q=     63.8     36.2
    AREA=    390.4    486.2
     VEL=     10.2      4.7

 SECNO 2.118

 3470 ENCROACHMENT STATIONS=    4945.0    5145.0  TYPE=     1  TARGET=     200.000
     2.12     11.14  1262.14      .00  1261.62  1262.91      .78      3.10      .04100000.00
    6273.        0.    4589.    1684.       0.     593.     408.      260.      80.   1258.00
      .47       .00     7.88     4.13     .070     .050     .070      .000  1251.00  4945.00
  .006471      505.     440.     370.        1        0        0       .00   200.00  5145.00
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=      2.12          CWSEL=   1262.14

STA=    4945.    5040.    5145.
  PER Q=     73.2     26.8
   AREA=    582.7    408.0
    VEL=      7.9      4.1

*SECNO 2.200

3470 ENCROACHMENT STATIONS=    4835.0    5050.0  TYPE=     1  TARGET=     215.000
     2.21    11.42  1264.42      .00  1263.82  1264.81      .39     1.86      .04  1258.00
    6023.    2672.    3152.     199.     764.     514.      82.     273.      82.   1260.00
      .49     3.50     6.13     2.44     .070     .050     .070     .000  1253.00  4835.00
  .002546     525.     475.     435.        2        0        0      .00   215.00  5050.00
0
FLOW DISTRIBUTION FOR SECNO=      2.21          CWSEL=   1264.42

STA=    4835.    4853.    4885.    4903.    4969.    5030.    5050.
  PER Q=      1.7      9.5      7.1     26.0     52.3      3.3
   AREA=     51.0    173.4    115.6    423.7    514.1     81.7
    VEL=      2.0      3.3      3.7      3.7      6.1      2.4

*SECNO 2.310

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    4850.0    5050.0  TYPE=     1  TARGET=     200.000
     2.31    10.65  1266.15      .00  1265.92  1267.10      .95     2.12      .17  1262.00
    6023.    1693.    4041.     293.     423.     442.      76.     268.      85.   1262.00
      .51     3.99     9.15     3.84     .070     .050     .070     .000  1255.50  4850.00
  .006819     540.     540.     540.        2        0        0      .00   200.00  5050.00
0
FLOW DISTRIBUTION FOR SECNO=      2.31          CWSEL=   1266.15

STA=    4850.    4970.    5030.    5050.
  PER Q=     28.0     67.1      4.9
   AREA=    422.8    441.8     76.2
    VEL=      4.0      9.1      3.9

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

*SECNO 2.395

3470 ENCROACHMENT STATIONS=    4880.0    5100.0  TYPE=     1  TARGET=     220.000
     2.39    10.29  1268.79      .00  1268.29  1269.37      .58     2.23      .04  1264.00
    6023.    1100.    4294.     621.     346.     618.     198.     298.      87.   1264.00
      .53     3.21     6.95     3.14     .070     .050     .070     .000  1258.50  4880.00
  .007001     630.     650.     675.        2        0        0      .00   220.00  5100.00
```

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0
 FLOW DISTRIBUTION FOR SECNO=      2.39          CWSEL=   1269.79

 STA=    4880.    4967.    5050.    5100.
   PER Q=      18.4     71.3     10.3
    AREA=    345.6    618.2    197.6
     VEL=      3.2      6.9      3.1

 *SECNO 2.486

 3470 ENCROACHMENT STATIONS=    4900.0    5085.0  TYPE=     1  TARGET=     185.000
      2.49     7.94  1270.94      .00  1270.66  1271.70      .76     2.28      .06  1268.00
     6023.     203.    5686.     133.      67.     791.      44.     310.      89.   1268.00
       .55     3.02     7.18     3.02     .070     .050     .070     .000  1263.00  4900.00
   .006117     450.     480.     525.        3        0        0      .00   185.00  5085.00
0
 FLOW DISTRIBUTION FOR SECNO=      2.49          CWSEL=   1270.94

 STA=    4900.    4925.    5070.    5085.
   PER Q=       3.4     94.4      2.2
    AREA=      67.3    791.5     44.1
     VEL=       3.0      7.2      3.0

 *SECNO 2.588

 3470 ENCROACHMENT STATIONS=    4895.0    5105.0  TYPE=     1  TARGET=     210.000
      2.59     8.77  1274.27      .00  1273.77  1275.28     1.01     3.50      .07  1270.00
     6023.     667.    4523.     833.     205.     498.     204.     321.      91.   1270.00
       .57     3.25     9.07     4.08     .070     .050     .070     .000  1265.50  4895.00
   .006909     540.     540.     530.        2        0        0      .00   210.00  5105.00
0
 FLOW DISTRIBUTION FOR SECNO=      2.59          CWSEL=   1274.27

 STA=    4895.    4951.    4980.    5050.    5105.
   PER Q=       5.0      6.1     75.1     13.8
    AREA=     110.4     94.7    498.5    204.3
     VEL=       2.7      3.9      9.1      4.1

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 2.691

 3470 ENCROACHMENT STATIONS=    4975.0    5165.0  TYPE=     1  TARGET=     190.000
      2.69     8.42  1277.42      .00  1277.17  1277.98      .56     2.65      .05  1274.00
     6023.      59.    5678.     286.      26.     925.     110.     333.      94.   1274.00
       .60     2.27     6.14     2.59     .070     .050     .070     .000  1269.00  4975.00
   .003680     550.     540.     520.        2        0        0      .00   190.00  5165.00
0
 FLOW DISTRIBUTION FOR SECNO=      2.69          CWSEL=   1277.42

 STA=    4975.    4983.    5129.    5165.
   PER Q=       1.0     94.3      4.7
    AREA=      26.0    924.7    110.4
     VEL=       2.3      6.1      2.6

 *SECNO 2.774

 3701:AR CHANGED MORE THAN HUING
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3470 ENCROACHMENT STATIONS=    4950.0    5130.0  TYPE=     1  TARGET=     180.000
     2.77     8.98  1279.48      .00  1279.27  1280.64     1.16     2.48      .18  1278.00
    6023.       9.    5136.     878.       4.     557.     220.     343.      96.   1276.00
      .61     2.03     9.22     3.99     .070     .050     .070     .000  1270.50  4950.00
  .009468     415.     440.     490.        3        0        0      .00   180.00  5130.00
0
FLOW DISTRIBUTION FOR SECNO=      2.77          CWSEL=   1279.48

STA=    4950.    4953.    5050.    5130.
  PER Q=       .1     85.3     14.6
   AREA=      4.3    557.2    220.1
    VEL=      2.0      9.2      4.0

*SECNO 2.867

3301 HV CHANGED MORE THAN HVING


3470 ENCROACHMENT STATIONS=    4920.0    5160.0  TYPE=     1  TARGET=     240.000
     2.87     8.89  1282.89      .00  1282.03  1283.40      .52     2.70      .06  1280.00
    6023.     249.    5616.     157.     105.     945.      81.     353.      98.   1280.00
      .64     2.37     5.94     1.94     .070     .050     .070     .000  1274.00  4920.00
  .003685     465.     490.     410.        2        0        0      .00   240.00  5160.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      2.87          CWSEL=   1282.89

STA=    4920.    4960.    5117.    5160.
  PER Q=       4.1     93.2      2.6
   AREA=     105.4    945.1     81.1
    VEL=       2.4      5.9      1.9

*SECNO 2.937

3470 ENCROACHMENT STATIONS=    4860.0    5190.0  TYPE=     1  TARGET=     330.000
     2.94     8.56  1284.56      .00  1283.95  1284.93      .43     1.58      .01  1280.00
    6023.     749.    2804.    2390.     276.     426.     675.     365.     101.   1280.00
      .66     2.72     6.76     3.54     .070     .050     .070     .000  1276.00  4860.00
  .004263     290.     370.     540.        2        0        0      .00   330.00  5190.00
0
FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1284.56

STA=    4860.    4940.    4960.    5025.    5050.    5100.    5110.    5121.    5190.
  PER Q=       8.6      3.8     47.9      4.8      9.5      4.5      5.0     15.9
   AREA=     204.8     71.2    426.4     89.0    178.0     60.6     66.7    280.4
    VEL=       2.5      3.2      6.8      3.2      3.2      4.5      4.5      3.4

*SECNO 3.011

3470 ENCROACHMENT STATIONS=    4930.0    5280.0  TYPE=     1  TARGET=     350.000
     3.01     9.43  1286.43      .00  1285.85  1286.83      .40     1.84      .00  1284.00
    6023.     187.    2309.    3528.      80.     335.     994.     378.     104.   1282.00
      .68     2.33     6.88     3.55     .070     .050     .070     .000  1277.00  4930.00
  .004734     370.     393.     430.        3        0        0      .00   350.00  5280.00
0
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FLOW DISTRIBUTION FOR SECNO=      3.01          CWSEL=   1286.43

STA=    4930.    4968.    5021.    5171.    5280.
  PER Q=      3.1     38.3     35.7     22.9
   AREA=     80.1    335.5    590.0    404.1
    VEL=      2.3      6.9      3.6      3.4

*SECNO 3.140

3470 ENCROACHMENT STATIONS=    4870.0    5235.0  TYPE=     1  TARGET=     365.000
     3.14     9.18  1289.48      .00  1288.69  1290.10      .62     3.20      .07  1286.00
    6023.     622.    3732.    1669.     223.     483.     560.     397.     109.   1286.00
      .71     2.79     7.72     2.98     .070     .050     .070     .000  1280.30  4870.00
  .005243     715.     680.     590.        2        0        0      .00   365.00  5235.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=      3.14          CWSEL=   1289.48

STA=    4870.    4960.    5030.    5235.
  PER Q=     10.3     62.0     27.7
   AREA=    223.2    483.3    559.6
    VEL=      2.8      7.7      3.0

*SECNO 3.247

3470 ENCROACHMENT STATIONS=    4900.0    5200.0  TYPE=     1  TARGET=     300.000
     3.25    10.01  1292.31      .00  1292.55  1293.04      .74     2.91      .03  1288.00
    6023.     745.    3946.    1332.     218.     481.     462.     413.     114.   1288.00
      .74     3.41     8.21     2.88     .070     .050     .070     .000  1282.30  4900.00
  .004923     550.     565.     600.        2        0        0      .00   300.00  5200.00
0
FLOW DISTRIBUTION FOR SECNO=      3.25          CWSEL=   1292.31

STA=    4900.    4960.    5020.    5100.    5200.
  PER Q=     12.4     65.5     14.5      7.6
   AREA=    218.4    480.9    264.5    197.3
    VEL=      3.4      8.2      3.3      2.3

*SECNO 3.354

3470 ENCROACHMENT STATIONS=    4830.0    5140.0  TYPE=     1  TARGET=     310.000
     3.35     8.74  1295.04      .00  1294.59  1295.61      .58     2.55      .02  1292.00
    6023.     910.    4475.     638.     327.     650.     258.     429.     118.   1292.00
      .76     2.79     6.89     2.47     .070     .050     .070     .000  1286.30  4830.00
  .004197     550.     565.     565.        3        0        0      .00   310.00  5140.00
0
FLOW DISTRIBUTION FOR SECNO=      3.35          CWSEL=   1295.04

STA=    4830.    4870.    4905.    4940.    5035.    5140.
  PER Q=      6.3      4.4      4.4     74.3     10.6
   AREA=    131.6     97.6     97.6    649.7    257.8
    VEL=      2.9      2.7      2.7      6.9      2.5

*SECNO 3.465

3470 ENCROACHMENT STATIONS=    4750.0    5070.0  TYPE=     1  TARGET=     320.000
     3.45     9.43  1297.97      .00  1297.62  1298.71      .77     3.03      .06  1296.03
```

```
    6023.    1648.    3938.     437.     520.     468.     125.     445.     122.   1294.00
     .79     3.17     8.41     3.51     .070     .050     .070     .000  1288.50  4750.00
  .006463    600.     585.     600.        2        0        0      .00   320.00  5070.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

 FLOW DISTRIBUTION FOR SECNO=      3.46          CWSEL=   1297.93

 STA=    4750.    4815.    4845.    4875.    4960.    5030.    5070.
   PER Q=      8.8      2.0      2.0     14.5     65.4      7.3
    AREA=    169.1     50.6     50.6    249.7    468.2    124.7
     VEL=      3.1      2.4      2.4      3.5      8.4      3.5

 *SECNO 3.563

 3265 DIVIDED FLOW


 3470 ENCROACHMENT STATIONS=    4700.0    5040.0  TYPE=     1  TARGET=     340.000
     3.56    10.51  1301.01      .00  1300.15  1302.12     1.11     3.31      .10  1298.00
    6023.    1059.    4527.     436.     379.     474.     102.     457.     125.   1296.00
      .81     2.79     9.55     4.26     .070     .050     .070     .000  1290.50  4700.00
  .006571     460.     520.     540.        3        0        0      .00   304.18  5040.00
0
 FLOW DISTRIBUTION FOR SECNO=      3.56          CWSEL=   1301.01

 STA=    4700.    4740.    4820.    4856.    4930.    4960.    5018.    5040.
   PER Q=      6.8      7.3       .3       .4      2.7     75.2      7.3
    AREA=    120.5    160.9     18.1     19.4     60.3    473.9    102.4
     VEL=      3.4      2.7      1.1      1.1      2.7      9.6      4.3

 *SECNO 3.656

 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=    4650.0    5100.0  TYPE=     1  TARGET=     450.000
     3.66    11.83  1303.83      .00  1302.85  1304.11      .28     1.91      .08  1300.00
    6023.    2176.    3061.     786.     934.     567.     307.     472.     130.   1300.00
      .84     2.33     5.50     2.56     .070     .050     .070     .000  1292.00  4650.00
  .002583     490.     490.     490.        3        0        0      .00   450.00  5100.00
0
 FLOW DISTRIBUTION FOR SECNO=      3.66          CWSEL=   1303.83

 STA=    4650.    4942.    5020.    5060.    5100.
   PER Q=     36.1     50.8      6.7      6.3
    AREA=    934.2    556.9    153.3    153.3
     VEL=      2.3      5.5      2.6      2.5


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST
```

```
*SECNO 3.737

3301 HV CHANGED MORE THAN HVING

7185 MINIMUM SPECIFIC ENERGY
720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    4750.0    5100.0  TYPE=     1  TARGET=     350.000
     3.74    10.81  1305.31  1305.31  1305.08  1306.60     1.29     1.99      .30  1302.00
    6023.     1036.     3876.     1111.      331.      353.      245.      486.      134.   1302.00
      .85     3.13     10.98     4.54     .070     .050     .070     .000  1294.50  4750.00
  .010691     460.      425.      390.        4       10        0      .00   350.00  5100.00
0
 FLOW DISTRIBUTION FOR SECNO=      3.74          CWSEL=   1305.31

 STA=    4750.    4820.    4890.    4970.    5020.    5047.    5100.
   PER Q=      2.6      2.8     11.8     64.4      7.2     11.2
    AREA=     71.4     74.3    184.9    353.1     89.4    155.1
     VEL=      2.2      2.3      3.8     11.0      4.9      4.4

 *SECNO 3.816

 3301 HV CHANGED MORE THAN HVING


 3470 ENCROACHMENT STATIONS=    4720.0    5100.0  TYPE=     1  TARGET=     380.000
     3.82    12.09  1308.59      .00  1307.75  1309.16      .58     2.49      .07  1304.00
    6023.     1209.     3939.      875.      546.      541.      272.      497.      137.   1304.00
      .88     2.21     7.28     3.22     .070     .050     .070     .000  1296.50  4720.00
  .003676     470.      420.      400.        2        0        0      .00   380.00  5100.00

 FLOW DISTRIBUTION FOR SECNO=      3.82          CWSEL=   1308.59

 STA=    4720.    4765.    4921.    4950.    4970.    5035.    5100.
   PER Q=      2.2     11.3      3.0      3.6     65.4     14.5
    AREA=     75.6    324.1     74.8     71.6    541.3    272.0
     VEL=      1.8      2.1      2.4      3.0      7.3      3.2

 *SECNO 3.879

 3470 ENCROACHMENT STATIONS=    4850.0    5150.0  TYPE=     1  TARGET=     300.000
1
  05/03/88    15:30:29                                                                                                    PAGE   57


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA     LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CBRAR    TOPWID     ENDST


      3.88    10.80  1309.80      .00  1309.05  1310.23      .43     1.06      .01  1306.00
    6023.      362.     5247.      414.      184.      939.      169.      507.      140.   1306.00
      .89     1.97     5.59     2.45     .070     .050     .070     .000  1299.00  4863.23
  .002826     380.      330.      260.        2        0        0      .00   286.77  5150.00
0
 FLOW DISTRIBUTION FOR SECNO=      3.88          CWSEL=   1309.80

 STA=    4863.    4909.    4960.    5100.    5150.
   PER Q=       .7      5.3     87.1      6.9
    AREA=     41.1    142.5    938.8    169.3
     VEL=      1.0      2.2      5.6      2.4

 *SECNO 3.945
```

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3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    4850.0    5090.0  TYPE=     1  TARGET=     240.000
     3.94      8.65  1310.65      .00  1310.38  1311.68     1.03      1.27      .18  1308.00
    6023.      587.    5436.       0.      274.     636.       0.      517.     142. 100000.00
      .91      2.14     8.55      .00     .080     .035     .035     .000  1302.00  4850.00
   .004474     520.     350.     280.        3        0        0      .00   240.00  5090.00
0
 FLOW DISTRIBUTION FOR SECNO=      3.94          CWSEL=   1310.65

 STA=    4850.    4854.    4883.    4930.    4970.    5090.
   PER Q=       .3      3.0      3.5      2.9     90.3
    AREA=     10.6     76.8    100.9     85.9    635.7
     VEL=      1.7      2.4      2.1      2.1      8.6

 *SECNO 4.015

3470 ENCROACHMENT STATIONS=    4957.0    5099.0  TYPE=     1  TARGET=     142.000
     4.01      9.25  1312.25      .00  1311.77  1312.90      .65      1.18      .04  1314.00
    5087.        0.    5087.       0.        0.     785.       0.      525.     144. 100000.00
      .92       .00     6.48      .00     .080     .035     .035     .000  1303.00  4968.37
   .002180     560.     370.     260.        2        0        0      .00   130.63  5099.00
0
 FLOW DISTRIBUTION FOR SECNO=      4.01          CWSEL=   1312.25

 STA=    4968.    5099.
   PER Q=     100.0
    AREA=     785.1
     VEL=       6.5


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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         GLOB      GCH       GROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 4.053

3470 ENCROACHMENT STATIONS=    4950.0    5197.0  TYPE=     1  TARGET=     247.000
     4.05      9.47  1312.97      .00  1312.67  1313.34      .36       .41      .03  1312.00
    5087.        0.    5087.       0.        0.    1050.       0.      529.     145. 100000.00
      .93       .00     4.84      .00     .080     .035     .035     .000  1303.50  4950.00
   .001919     250.     200.     135.        2        0        0      .00   247.00  5197.00
0
 FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1312.97

 STA=    4950.    5197.
   PER Q=     100.0
    AREA=    1050.4
     VEL=       4.8

 *SECNO 4.148

3470 ENCROACHMENT STATIONS=    4953.0    5370.0  TYPE=     1  TARGET=     417.000
     4.15      9.04  1313.54      .00  1313.32  1313.61      .07       .24      .03  1310.00
    5087.        0.    5087.       0.        0.    2466.       0.      549.     149. 100000.00
     1.00       .00     2.06      .00     .080     .035     .035     .000  1304.50  4953.00
   .000216     500.     500.     500.        2        0        0      .00   404.87  5357.87
0
 FLOW DISTRIBUTION FOR SECNO=      4.15          CWSEL=   1313.54
```

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 STA=    4953.    5370.
   PER Q=    100.0
    AREA=   2465.8
     VEL=      2.1

 *SECNO 4.254

 3470 ENCROACHMENT STATIONS=    4960.0    5303.0  TYPE=     1  TARGET=     343.000
      4.25     8.87  1313.67      .00  1313.44  1313.89      .22      .24      .05  1312.00
     5087.       0.    5087.       0.       0.    1336.       0.     573.     154. 100000.00
      1.04      .00     3.81      .00     .080     .035     .035     .000  1304.80  4960.00
   .001217     560.     560.     560.        2        0        0      .00   321.68  5281.68
0
 FLOW DISTRIBUTION FOR SECNO=      4.25          CWSEL=   1313.67

 STA=    4960.    5303.
   PER Q=    100.0
    AREA=   1336.5
     VEL=      3.8

1
  05/03/88    15:30:29                                                                                                PAGE   59


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4.360

 3470 ENCROACHMENT STATIONS=    4866.0    5234.0  TYPE=     1  TARGET=     368.000
      4.36     9.14  1314.14      .00  1313.93  1314.24      .10      .34      .01  1310.00
     5087.       0.    5087.       0.       0.    2000.       0.     595.     158. 100000.00
      1.10      .00     2.54      .00     .080     .035     .035     .000  1305.00  4866.00
   .000357     550.     560.     560.        2        0        0      .00   348.82  5214.82
0
 FLOW DISTRIBUTION FOR SECNO=      4.36          CWSEL=   1314.14

 STA=    4866.    5234.
   PER Q=    100.0
    AREA=   1999.6
     VEL=      2.5

 *SECNO 4.457

 3470 ENCROACHMENT STATIONS=    4795.0    5185.0  TYPE=     1  TARGET=     390.000
      4.46     8.83  1314.33      .00  1314.07  1314.42      .10      .18      .00  1310.00
     5087.       0.    5087.       0.       0.    2029.       0.     619.     162. 100000.00
      1.16      .00     2.51      .00     .080     .035     .035     .000  1305.50  4795.00
   .000344     490.     515.     525.        2        0        0      .00   352.55  5147.55
0
 FLOW DISTRIBUTION FOR SECNO=      4.46          CWSEL=   1314.33

 STA=    4795.    5185.
   PER Q=    100.0
    AREA=   2028.8
     VEL=      2.5

 *SECNO 4.554

 3470 ENCROACHMENT STATIONS=    4890.0    5162.0  TYPE=     1  TARGET=     272.000
      4.55     8.69  1314.49      .00  1314.21  1314.64      .15      .20      .02  1310.00
     5087.       0.    5087.       0.       0.    1650.       0.     640.     166. 100000.00
      1.21      .00     2.00      .00     .080     .035     .035     .000  1305.00  4890.00
```

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  .000450    460.    510.    535.      2       0       0     .00   254.92  5144.92
0
 FLOW DISTRIBUTION FOR SECNO=      4.55          CWSEL=   1314.49

 STA=    4890.    5162.
   PER Q=    100.0
    AREA=   1649.5
     VEL=      3.1

1
  05/03/88    15:30:29                                                                                    PAGE   60


                                                                                THIS RUN EXECUTED 05/03/88   15:34:36
 ************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ************************************************


 T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
 T2      50-YEAR STORM EVENT
 T3      MCMICKEN DAM OUTLET WASH

 J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

       0.       4.       0.       0.   .000000     .00       .5       0.  1176.000     .000

 MULTIPLE PROFILE RUN WITH INTERPOLATED CROSS SECTIONS
 J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      3.000     .000   -1.000     .000     .000     .000     .000     .000     .000   15.000

1
  05/03/88    15:30:29                                                                                    PAGE   61


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 3

 CCHV=    .100 CEHV=    .300
 *SECNO  .000

 3265 DIVIDED FLOW

      .00     4.00  1176.00      .00  1176.00  1176.20      .20      .00      .00  1180.00
    5085.       0.    5085.       0.       0.    1427.       0.       0.       0.   1200.00
      .00      .00     3.56      .00     .060     .040     .060     .000  1172.00  4028.00
  .005093       0.       0.       0.        0        0        0      .00   915.67  5029.67

 FLOW DISTRIBUTION FOR SECNO=      .00          CWSEL=   1176.00

 STA=    4028.    5062.
   PER Q=    100.0
    AREA=   1427.2
     VEL=      3.6
```

```
*SECNO  .107

1645 INT SEC ADDED BY RAISING SEC       .11,  -3.000FT AND MULTIPLYING BY   4.945


3265 DIVIDED FLOW

     1.01     4.20  1177.20      .00      .00  1177.33      .13     1.12      .01  1187.00
    5085.       0.    5085.       0.       0.    1786.       0.       5.       7.   1187.00
      .01      .00     2.85      .00     .060     .040     .060     .000  1173.00  5019.73
  .014139     238.     141.     128.        8        0        0      .00  3451.76  8973.28
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1177.20

 STA=    5019.    9157.
   PER Q=    100.0
    AREA=   1786.1
     VEL=      2.8


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.000FT AND MULTIPLYING BY    .734

1
  05/03/88    15:30:29                                                                    PAGE   62


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COHAR    TOPWID     ENDST


     1.02     4.51  1178.51      .00      .00  1178.59      .09     1.26      .00  1198.00
    5085.       0.    5085.       0.       0.    2139.       0.      12.      17.   1188.00
      .03      .00     2.38      .00     .060     .040     .060     .000  1174.00  4817.30
  .006177     238.     141.     128.        5        0        0      .00  2912.66  7729.97
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1178.51

 STA=    4817.    7861.
   PER Q=    100.0
    AREA=   2139.4
     VEL=      2.4


 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.000FT AND MULTIPLYING BY    .638

     1.03     4.58  1179.58      .00      .00  1179.76      .18     1.14      .03  1199.00
    5085.       0.    5085.       0.       0.    1506.       0.      17.      25.   1189.00
      .04      .00     3.38      .00     .060     .040     .060     .000  1175.00  4622.51
  .010938     238.     141.     128.        2        0        0      .00  1859.11  6481.61
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1179.58

 STA=    4623.    6564.
   PER Q=    100.0
    AREA=   1506.2
     VEL=      3.4


 1645 INT SEC ADDED BY RAISING SEC      1.03,   1.000FT AND MULTIPLYING BY    .432

      .11     5.08  1181.08      .00      .00  1181.45      .37     1.63      .06  1200.00
    5085.       0.    5085.       0.       0.    1043.       0.      22.      29.   1190.00
      .05      .00     4.88      .00     .060     .040     .060     .000  1176.00  4426.66
  .019372     238.     141.     128.        7        0        0      .00  4071.40  5236.06
```

```
0
 FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1181.08

 STA=    4427.    5268.
   PER Q=    100.0
    AREA=   1042.9
     VEL=      4.9

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .159
      .16     5.41  1183.41      .00      .00  1183.68      .27     2.22      .01  1210.00
    5085.       0.    5085.       0.       0.    1219.       0.      29.      34.   1190.00
      .07      .00     4.17      .00     .060     .040     .060     .000  1178.00  4438.96
  .005750     130.     274.     350.        3        0        0      .00   676.09  5115.06
0
 FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1183.41

 STA=    4439.    5150.
   PER Q=    100.0
    AREA=   1219.5
     VEL=      4.2

 *SECNO  .238
      .24     5.72  1185.72      .00      .00  1186.07      .35     2.37      .02  1210.00
    5085.       0.    5085.       0.       0.    1075.       0.      40.      40.   1200.00
      .09      .00     4.73      .00     .060     .040     .060     .000  1180.00  4553.69
  .005589     140.     418.     575.        3        0        0      .00   482.58  5036.27
0
 FLOW DISTRIBUTION FOR SECNO=       .24          CWSEL=   1185.72

 STA=    4554.    5503.
   PER Q=    100.0
    AREA=   1074.8
     VEL=      4.7

 *SECNO  .350

 3265 DIVIDED FLOW

      .35     5.79  1190.29      .00      .00  1191.04      .75     4.85      .12  1192.50
    5085.       5.    5080.       0.       5.     730.       0.      52.      45.   1200.00
      .12      .94     6.96      .00     .060     .040     .060     .000  1184.50  4493.03
  .013297     480.     590.     760.        2        0        0      .00   379.74  5259.77
0
 FLOW DISTRIBUTION FOR SECNO=       .35          CWSEL=   1190.29

 STA=    4493.    4500.    4785.    4793.    5428.
   PER Q=       .0       .0       .0     99.9
    AREA=      1.8      1.9      1.2    730.4
     VEL=      1.2       .8       .8      7.0

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
```

```
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO  .437
      .44     6.40  1194.40      .00      .00  1194.75      .35     3.67      .04  1200.00
    5085.       0.    5085.       0.       0.    1068.       0.      61.      50.   1200.00
      .14      .00     4.76      .00     .060     .040     .060     .000  1188.00  4978.39
  .005333     470.     459.     450.        4        0        0      .00   457.23  5435.62
0
 FLOW DISTRIBUTION FOR SECNO=       .44          CWSEL=   1194.40

 STA=    4978.    5450.
   PER Q=    100.0
    AREA=   1068.0
     VEL=      4.8

 *SECNO  .527

 3265 DIVIDED FLOW

      .53     4.52  1197.52      .00      .00  1198.16      .64     3.32      .09  1200.00
    5085.       0.    5085.       0.       0.     791.       0.      72.      54.   1210.00
      .16      .00     6.43      .00     .060     .040     .060     .000  1193.00  4697.73
  .009342     525.     480.     150.        3        0        0      .00   323.15  5161.85
0
 FLOW DISTRIBUTION FOR SECNO=       .53          CWSEL=   1197.52

 STA=    4698.    5200.
   PER Q=    100.0
    AREA=    790.5
     VEL=      6.4

 *SECNO  .579

 1645 INT SEC ADDED BY RAISING SEC       .58,    .37SFT AND MULTIPLYING BY   3.937


 3265 DIVIDED FLOW

     1.01     5.49  1198.36      .00      .00  1198.75      .40      .56      .02  1216.38
    5085.       0.    5085.       0.       0.    1007.       0.      73.      55.   1220.38
      .17      .00     5.05      .00     .060     .040     .060     .000  1192.88  6108.11
  .007354     109.      68.      38.        5        0        0      .00   504.76  6980.62
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1198.36

 STA=    6108.    7138.
   PER Q=    100.0
    AREA=   1007.3
     VEL=      5.0


 1645 INT SEC ADDED BY RAISING SEC      1.01,   -.125FT AND MULTIPLYING BY    .751
```

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3265 DIVIDED FLOW

     1.02     6.28  1199.03      .00      .00  1199.27      .24      .50      .02  1216.25
    5085.       0.    5085.       0.       0.    1285.       0.      75.      56.   1220.25
      .17      .00     3.96      .00     .060     .040     .060     .000  1192.75  5339.09
  .007439      109.     68.      38.        4        0        0      .00   935.48  6337.03

 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1199.03

 STA=    5339.    6446.
   PER Q=    100.0
    AREA=   1284.8
     VEL=      4.0


 1645 INT SEC ADDED BY RAISING SEC      1.02,   -.125FT AND MULTIPLYING BY    .669

     1.03     6.86  1199.48      .00      .00  1199.73      .24      .45      .00  1216.13
    5085.       0.    5085.       0.       0.    1282.       0.      77.      57.   1220.13
      .18      .00     3.97      .00     .060     .040     .060     .000  1192.63  4897.35
  .005971      109.     68.      38.        3        0        0      .00   788.35  5685.70
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1199.48

 STA=    4897.    5754.
   PER Q=    100.0
    AREA=   1281.7
     VEL=      4.0

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.03,   -.125FT AND MULTIPLYING BY    .505

      .58     7.30  1199.80      .00      .00  1200.38      .58      .56      .10  1216.00
    5085.       0.    5085.       0.       0.     832.       0.      79.      58.   1220.00
      .18      .00     6.11      .00     .060     .040     .060     .000  1192.50  4585.25
  .011746      109.     68.      38.        3        0        0      .00   443.94  5029.19
0
 FLOW DISTRIBUTION FOR SECNO=       .58          CWSEL=   1199.80

 STA=    4585.    5062.
   PER Q=    100.0
    AREA=    832.2
     VEL=      6.1

 *SECNO  .647

 3265 DIVIDED FLOW

      .65     6.13  1202.13      .00      .00  1202.49      .36     2.09      .02  1217.00
    5085.       0.    5085.       0.       0.    1053.       0.      86.      61.   1210.00
      .20      .00     4.83      .00     .060     .040     .060     .000  1196.00  4747.47
  .003441      265.    360.     398.        3        0        0      .00   318.63  5178.41
0
 FLOW DISTRIBUTION FOR SECNO=       .65          CWSEL=   1202.13

 STA=    4747.    5339.
```

```
  PER Q=    100.0
   AREA=   1052.9
    VEL=      4.9

 *SECNO  .746
      .75     5.63  1204.13      .00      .00  1204.94      .81     2.31      .14  1210.00
    5085.       0.    5085.       0.       0.     703.       0.      97.      64.   1210.00
      .22      .00     7.23      .00     .060     .040     .060     .000  1198.50  4909.38
  .005955     250.     521.     690.        2        0        0      .00   174.66  5084.03
0
 FLOW DISTRIBUTION FOR SECNO=       .75          CWSEL=   1204.13

 STA=    4909.    5109.
   PER Q=    100.0
   AREA=    703.0
    VEL=      7.2

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO  .833
      .83     6.51  1206.51      .00      .00  1207.03      .53     2.07      .03  1210.00
    5085.       0.    5085.       0.       0.     872.       0.     105.      66.   1210.00
      .24      .00     5.83      .00     .060     .040     .060     .000  1200.00  4897.73
  .003546     475.     457.     457.        3        0        0      .00   203.13  5100.86

 FLOW DISTRIBUTION FOR SECNO=       .83          CWSEL=   1206.51

 STA=    4898.    5116.
   PER Q=    100.0
   AREA=    872.2
    VEL=      5.8

 *SECNO  .946
      .95     6.30  1208.80      .00      .00  1209.42      .62     2.36      .03  1214.00
    5085.       0.    5085.       0.       0.     805.       0.     117.      69.   1210.00
      .27      .00     6.32      .00     .060     .040     .060     .000  1202.50  4889.51
  .004373     640.     600.     600.        2        0        0      .00   194.17  5083.68
0
 FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1208.80

 STA=    4890.    5090.
   PER Q=    100.0
   AREA=    804.5
    VEL=      6.3

 *SECNO 1.058
     1.06     6.38  1211.38      .00      .00  1211.94      .56     2.52      .01  1220.00
    4916.       0.    4916.       0.       0.     816.       0.     128.      72.   1220.00
      .30      .00     6.02      .00     .060     .040     .060     .000  1205.00  4905.68
  .004162     591.     591.     591.        2        0        0      .00   204.15  5109.84

 FLOW DISTRIBUTION FOR SECNO=      1.06          CWSEL=   1211.38

 STA=    4906.    5140.
   PER Q=    100.0
   AREA=    816.3
    VEL=      6.0
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.169
     1.17     5.14  1212.64      .00      .00  1213.45      .81     1.43      .08  1220.00
    4916.       0.    4916.       0.       0.     679.       0.     138.      74.   1220.00
      .32      .00     7.24      .00     .050     .020     .050     .000  1207.50  4912.21
  .001604     585.     585.     585.        3        0        0      .00   178.34  5090.53
0
 FLOW DISTRIBUTION FOR SECNO=      1.17          CWSEL=   1212.64

 STA=    4912.    5120.
   PER Q=    100.0
    AREA=    679.0
     VEL=      7.2

 *SECNO 1.191

 1645 INT SEC ADDED BY RAISING SEC      1.19,   -.500FT AND MULTIPLYING BY   2.542

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.01     5.77  1213.77  1213.77      .00  1214.53      .76      .15      .01  1219.50
    4916.       0.    4916.       0.       0.     702.       0.     139.      75.   1219.50
      .32      .00     7.00      .00     .050     .020     .050     .000  1208.00  5060.38
  .005152      58.      58.      58.       20        8        0      .00   465.77  5526.15
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1213.77

 STA=    5060.    5597.
   PER Q=    100.0
    AREA=    702.0
     VEL=      7.0


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .500FT AND MULTIPLYING BY    .393


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


     1.19     7.05  1215.55  1215.55      .00  1216.95     1.41      .28      .19  1220.00
    4916.       0.    4916.       0.       0.     536.       0.     139.      75.   1220.00
      .32      .00     9.52      .00     .050     .020     .050     .000  1208.50  4904.85
  .004503      58.      58.      58.       20       11        0      .00   193.62  5099.47
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 FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1215.55

 STA=    4905.    5120.
   PER Q=    100.0
    AREA=    516.3
     VEL=      9.5

 *SECNO 1.213

 1645 INT SEC ADDED BY RAISING SEC      1.21,   -.333FT AND MULTIPLYING BY    .645


 3301 HV CHANGED MORE THAN HVINS

      1.01      7.88  1216.55      .00      .00  1217.09      .54      .05      .09  1219.67
     4916.        0.    4916.       0.       0.     830.       0.     140.      75.   1219.67
       .32       .00     5.92      .00     .050     .020     .050     .000  1208.67  4797.31
   .000622       39.      39.      39.        3        0        0      .00   142.98  4940.29
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1216.55

 STA=    4797.    4948.
   PER Q=    100.0
    AREA=    830.2
     VEL=      5.9


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .167FT AND MULTIPLYING BY   1.275

      1.02      7.97  1216.81      .00      .00  1217.13      .32      .02      .02  1219.83
     4916.        0.    4916.       0.       0.    1076.       0.     141.      76.   1219.83
       .33       .00     4.57      .00     .050     .020     .050     .000  1208.83  4842.36
   .000361       39.      39.      39.        2        0        0      .00   182.86  5025.22
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1216.81

 STA=    4842.    5035.
   PER Q=    100.0
    AREA=   1076.3
     VEL=      4.6


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .167FT AND MULTIPLYING BY   1.216

      1.21      7.93  1216.93      .00      .00  1217.15      .22      .01      .01  1220.00
     4916.        0.    4916.       0.       0.    1299.       0.     142.      76.   1220.00
       .33       .00     3.78      .00     .050     .020     .050     .000  1209.00  4887.67
   .000249       39.      39.      39.        2        0        0      .00   222.03  5109.73

 FLOW DISTRIBUTION FOR SECNO=      1.21          CWSEL=   1216.93

 STA=    4888.    5122.
   PER Q=    100.0
    AREA=   1299.0
     VEL=      3.8
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*SECNO 1.251

1645 INT SEC ADDED BY RAISING SEC      1.25,  -6.667FT AND MULTIPLYING BY    .899


3301 HV CHANGED MORE THAN HVINS

     1.01      4.10  1216.44      .00      .00  1217.42      .98      .04      .23  1223.33
    4916.        0.    4916.       0.       0.     618.       0.     143.      76.   1223.33
      .33       .00     7.95      .00     .050     .020     .050     .000  1212.33  4885.59
  .002294       63.      63.      63.        4        0        0      .00   184.24  5069.82
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1216.44

 STA=    4886.    5101.
   PER Q=    100.0
    AREA=    618.3
     VEL=      8.0

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


1645 INT SEC ADDED BY RAISING SEC      1.01,   3.333FT AND MULTIPLYING BY   1.056

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.02      3.41  1219.07  1219.07      .00  1220.47      1.39      .19      .12  1226.67
    4916.        0.    4916.       0.       0.     519.       0.     144.      76.   1226.67
      .33       .00     9.48      .00     .050     .020     .050     .000  1215.67  4890.13
  .004258       63.      63.      63.       20       15        0      .00   189.23  5079.36
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1219.07

 STA=    4890.    5115.
   PER Q=    100.0
    AREA=    518.8
     VEL=      9.5


1645 INT SEC ADDED BY RAISING SEC      1.02,   3.333FT AND MULTIPLYING BY   1.053

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.25      3.32  1222.32  1222.32      .00  1223.66      1.34      .27      .01  1230.00
    4916.        0.    4916.       0.       0.     529.       0.     145.      77.   1230.00
      .34       .00     9.28      .00     .050     .020     .050     .000  1219.00  4893.04
  .004241       63.      63.      63.       20        8        0      .00   198.57  5091.61

FLOW DISTRIBUTION FOR SECNO=      1.25          CWSEL=   1222.32

STA=    4893.    5130.
  PER Q=    100.0
   AREA=    529.5
    VEL=      9.3

*SECNO 1.306
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3695 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.29      3.43  1234.43  1234.43      .00  1235.68      1.25      1.39      .01  1240.00
     4916.       0.     4916.       0.       0.     548.       0.      147.      77.   1236.00
      .34       .00      8.98      .00     .060     .040     .060     .000  1231.00  4880.42
  .017681      180.      180.      180.       20        8        0       .00   223.34  5103.75
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      1.29          CWSEL=   1234.43

 STA=    4880.    5121.
   PER Q=    100.0
    AREA=    547.6
     VEL=      9.0

 *SECNO 1.307
     1.31      3.97  1236.27      .00      .00  1237.18      .91      1.46      .03  1236.00
     4916.       0.     4916.       0.       0.     642.       1.      149.      78.   1236.00
      .35       .63      7.66      .64     .060     .040     .060     .000  1232.30  4883.67
  .009910      113.      113.      113.        2        0        0       .00   220.31  5103.98
0
 FLOW DISTRIBUTION FOR SECNO=      1.31          CWSEL=   1236.27

 STA=    4884.    4885.    5100.    5104.
   PER Q=       .0    100.0       .0
    AREA=       .2    642.1       .5
     VEL=       .6      7.7       .6

 *SECNO 1.381
     1.38      5.20  1238.70      .00      .00  1239.13      .44      1.90      .05  1240.00
     4916.       0.     4916.       0.       0.     926.       0.      156.      80.   1240.00
      .37       .00      5.31      .00     .060     .040     .060     .000  1233.50  4883.40
  .002874      395.      392.      380.        3        0        0       .00   211.96  5095.44
0
 FLOW DISTRIBUTION FOR SECNO=      1.38          CWSEL=   1238.70

 STA=    4883.    5100.
   PER Q=    100.0
    AREA=    926.3
     VEL=      5.3

 *SECNO 1.479
     1.48      4.80  1240.30      .00      .00  1240.80      .50      1.65      .02  1240.00
     4916.       0.     4916.       0.       0.     864.       0.      166.      82.   1244.00
      .39       .41      5.69      .00     .060     .040     .060     .000  1235.50  4879.71
  .003569      475.      516.      550.        2        0        0       .00   211.75  5091.46
0
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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 FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1240.30

 STA=    4880.    4882.    5110.
   PER Q=        .0    100.0
    AREA=        .3    863.9
     VEL=        .4      5.7

 *SECNO 1.593
      1.59     4.90  1242.40      .00      .00  1242.90      .49     2.09      .00  1250.00
     4916.       0.    4916.       0.       0.     873.       0.     178.      85.   1246.00
       .42      .00     5.63      .00     .060     .040     .060     .000  1237.50  4895.33
   .003381     603.     603.     603.        2        0        0      .00   206.03  5101.36
0
 FLOW DISTRIBUTION FOR SECNO=      1.59          CWSEL=   1242.40

 STA=    4895.    5118.
   PER Q=    100.0
    AREA=    872.5
     VEL=      5.6

 *SECNO 1.708
      1.71     4.71  1244.71      .00      .00  1245.33      .62     2.40      .04  1250.00
     4916.       0.    4916.       0.       0.     777.       0.     190.      88.   1248.00
       .45      .00     6.33      .00     .060     .040     .060     .000  1240.00  4896.80
   .004720     605.     605.     605.        2        0        0      .00   197.85  5094.66
0
 FLOW DISTRIBUTION FOR SECNO=      1.71          CWSEL=   1244.71

 STA=    4897.    5110.
   PER Q=    100.0
    AREA=    776.8
     VEL=      6.3

 *SECNO 1.788
      1.79     4.89  1246.89      .00      .00  1247.59      .70     2.23      .02  1250.00
     4916.       0.    4916.       0.       0.     731.       0.     197.      90.   1250.00
       .46      .00     6.72      .00     .060     .040     .060     .000  1242.00  4890.36
   .005896     485.     425.     390.        2        0        0      .00   201.20  5091.57
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.79          CWSEL=   1246.89

 STA=    4890.    5104.
   PER Q=    100.0
    AREA=    731.1
     VEL=      6.7

 SECNO 1.858
      1.86     5.05  1248.85      .00      .00  1249.38      .53     1.77      .02  1258.00
     4916.       0.    4916.       0.       0.     840.       0.     204.      92.   1252.00
       .48      .00     5.85      .00     .060     .040     .060     .000  1243.00  4918.62
   .003949     425.     370.     320.        2        0        0      .00   210.61  5129.23
0
 FLOW DISTRIBUTION FOR SECNO=      1.86          CWSEL=   1248.85

 STA=    4910.    5155.
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  PER Q=    100.0
   AREA=    839.8
    VEL=      5.9

 *SECNO 1.949

 1645 INT SEC ADDED BY RAISING SEC      1.95,  -1.600FT AND MULTIPLYING BY   1.264

     1.01     4.74  1250.14      .00      .00  1251.06      .92     1.57      .12  1254.40
    4916.       0.    4916.       0.       0.     638.       0.     208.      93.   1252.40
      .49      .00     7.71      .00     .070     .050     .070     .000  1245.40  4996.14
  .012798     200.     240.     275.        2        0        0      .00   183.08  5179.22
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1250.14

 STA=    4996.    5237.
  PER Q=    100.0
   AREA=    637.8
    VEL=      7.7


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.600FT AND MULTIPLYING BY    .791

     1.95     5.87  1252.87      .00      .00  1253.68      .81     2.61      .01  1256.00
    4916.       0.    4916.       0.       0.     680.       0.     212.      94.   1254.00
      .50      .00     7.23      .00     .070     .050     .070     .000  1247.00  4909.78
  .009337     200.     240.     275.        3        0        0      .00   169.35  5079.13
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.95          CWSEL=   1252.87

 STA=    4910.    5104.
  PER Q=    100.0
   AREA=    680.3
    VEL=      7.2

 *SECNO 2.034

 1645 INT SEC ADDED BY RAISING SEC      2.03,   -.375FT AND MULTIPLYING BY   3.839

     1.01     6.80  1253.93      .00      .00  1254.69      .76     1.00      .00  1259.63
    4916.       0.    4909.       7.       0.     699.      13.     213.      94.   1253.63
      .50      .00     7.02      .56     .070     .050     .070     .000  1247.13  6226.09
  .008544     105.     113.     115.        3        0        0      .00   257.74  6483.83
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1253.93

 STA=    6226.    6397.    6484.
  PER Q=     99.9       .1
   AREA=    699.4     13.2
    VEL=      7.0       .6


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .125FT AND MULTIPLYING BY    .754

     1.02     7.58  1254.80      .00      .00  1255.68      .87      .96      .03  1259.75
    4916.       0.    4767.     152.       0.     596.     121.     216.      95.   1253.75
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      .51      .00     7.61     1.27     .070     .050     .070     .000  1247.25  5304.45
   .008432     105.     113.     115.        3        0        0      .00   362.17  6166.62
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1254.80

 STA=    5304.    5938.    6167.
   PER Q=     96.9      3.1
    AREA=    625.5    120.6
     VEL=      7.6      1.3


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .125FT AND MULTIPLYING BY    .673

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


      1.03     8.27  1255.65  1255.26      .00  1256.83     1.18     1.06      .09  1259.88
     4916.       0.    4453.     463.       0.     487.     230.     217.      96.   1253.88
       .51      .00     9.15     2.02     .070     .050     .070     .000  1247.38  5386.09
   .010615     105.     113.     115.        6        8        0      .00   351.72  5737.81
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1255.65

 STA=    5386.    5479.    5738.
   PER Q=     90.6      9.4
    AREA=    486.5    229.6
     VEL=      9.2      2.0


 1645 INT SEC ADDED BY RAISING SEC      1.03,    .125FT AND MULTIPLYING BY    .514

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      2.03     9.74  1257.24  1257.24      .00  1258.65     1.41     1.30      .07  1260.00
     4916.       0.    3534.    1382.       0.     322.     346.     219.      97.   1254.00
       .52      .00    10.96     4.00     .070     .050     .070     .000  1247.50  4969.07
   .012497     105.     113.     115.       20        8        0      .00   216.44  5185.51
0
 FLOW DISTRIBUTION FOR SECNO=      2.03          CWSEL=   1257.24

 STA=    4969.    5020.    5170.    5186.
   PER Q=     71.9     27.9       .3
    AREA=    322.3    336.1      9.6
     VEL=     11.0      4.1      1.7

 *SECNO 2.118

 1645 INT SEC ADDED BY RAISING SEC      2.12,  -1.750FT AND MULTIPLYING BY    .856


 3301 HV CHANGED MORE THAN HVINS

      1.01    10.63  1259.88      .00      .00  1260.34      .46     1.59      .10  1260.25
     4916.       0.    3000.    1916.       0.     458.     649.     223.      98.   1256.25
       .53      .00     6.55     2.95     .070     .050     .070     .000  1249.25  4064.93
   .005135     253.     220.     185.        3        0        0      .00   343.72  5208.65
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1259.88

 STA=    4865.    4948.    5040.    5147.    5188.    5209.
   PER Q=     61.0     21.8     13.9      2.9       .5
   AREA=    459.3    312.3    252.4     66.9     17.0
    VEL=      6.5      3.4      2.7      2.1      1.3


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.750FT AND MULTIPLYING BY   1.168

     2.12     9.99  1260.99      .00      .00  1261.54      .55     1.18      .03  1262.00
    4916.       0.    3320.    1596.       0.     475.     567.     220.     100.   1258.00
      .54      .00     6.99     2.81     .070     .050     .070     .000  1251.00  4948.06
  .006332     253.     220.     185.        3        0        0      .00   386.81  5334.88
0
 FLOW DISTRIBUTION FOR SECNO=      2.12          CWSEL=   1260.99

 STA=    4948.    5040.    5148.    5272.    5320.    5335.
   PER Q=     67.5     19.9     10.7      1.6       .2
   AREA=    475.3    296.1    216.0     47.6      7.4
    VEL=      7.0      3.3      2.4      1.7      1.1

 *SECNO 2.208
     2.21    10.19  1263.19      .00      .00  1263.54      .35     1.98      .02  1258.00
    4747.     1930.    2580.     237.     598.     439.     152.     240.     103.   1260.00
      .57     3.23     5.88     1.56     .070     .050     .070     .000  1253.00  4834.96
  .002893     525.     475.     435.        2        0        0      .00   290.57  5125.53
0
 FLOW DISTRIBUTION FOR SECNO=      2.21          CWSEL=   1263.19

 STA=    4835.    4853.    4885.    4903.    4969.    5030.    5126.
   PER Q=      .9      8.4      6.7     24.7     54.3      5.0
   AREA=    28.7    133.9     93.3    342.2    438.7    152.1
    VEL=      1.5      3.0      3.4      3.4      5.9      1.6

 *SECNO 2.310
     2.31     9.69  1265.19      .00      .00  1265.92      .73     2.26      .11  1262.00
    4747.     1226.    3144.     377.     430.     384.     134.     253.     107.   1262.00
      .59     2.85     8.19     2.82     .070     .050     .070     .000  1255.50  4756.22
  .006592     540.     540.     540.        2        0        0      .00   343.38  5099.59
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.31          CWSEL=   1265.19

 STA=    4756.    4780.    4970.    5030.    5088.    5100.
   PER Q=      .4     25.5     66.2      7.8       .2
   AREA=    14.1    415.9    383.9    127.0      6.9
    VEL=      1.3      3.8      6.2      3.9      1.3
```

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*SECNO 2.395
     2.39     9.23  1267.73      .00      .00  1268.23      .50     2.29      .02  1264.00
    4747.     806.    3452.     489.     318.     530.     208.     264.     111.   1264.00
      .61     2.53     6.51     2.35     .070     .050     .070     .000  1258.50  4829.76
  .004093     430.     450.     475.        2        0        0      .00   332.08  5161.84

 FLOW DISTRIBUTION FOR SECNO=      2.39          CWSEL=   1267.73

 STA=    4830.    4860.    4967.    5050.    5110.    5162.
   PER Q=      .7     16.3     72.7      9.1      1.2
    AREA=    26.1    291.9    530.4    163.7     44.8
     VEL=     1.2      2.7      6.5      2.7      1.2

 *SECNO 2.486
     2.49     7.03  1270.03      .00      .00  1270.55      .51     2.31      .00  1268.00
    4747.     172.    4068.     506.     104.     661.     232.     275.     115.   1268.00
      .64     1.65     6.15     2.18     .070     .050     .070     .000  1263.00  4824.52
  .005697     450.     480.     525.        3        0        0      .00   406.59  5231.10
0
 FLOW DISTRIBUTION FOR SECNO=      2.49          CWSEL=   1270.03

 STA=    4825.    4925.    5070.    5105.    5135.    5230.
   PER Q=      3.6     85.7      3.9      3.3      3.4
    AREA=   104.4    661.4     71.5     61.3     99.2
     VEL=     1.6      6.2      2.6      2.6      1.6

 *SECNO 2.588
     2.59     7.77  1273.27      .00      .00  1274.19      .92     3.52      .12  1270.00
    4747.     315.    3685.     747.     143.     429.     243.     286.     120.   1270.00
      .66     2.20     8.59     3.07     .070     .050     .070     .000  1263.50  4829.55
  .007561     540.     540.     530.        2        0        0      .00   345.88  5175.43

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      2.59          CWSEL=   1273.27

 STA=    4830.    4951.    4980.    5050.    5150.    5175.
   PER Q=      2.2      4.4     77.6     15.3      .5
    AREA=    77.2     65.9    429.0    227.2     16.2
     VEL=     1.4      3.2      8.6      3.2      1.4

 *SECNO 2.691
     2.69     7.52  1276.52      .00      .00  1276.95      .43     2.72      .05  1274.00
    4747.     125.    4357.     265.      77.     794.     161.     298.     124.   1274.00
      .69     1.62     5.49     1.65     .070     .050     .070     .000  1269.00  4918.95
  .003606     550.     540.     520.        2        0        0      .00   330.14  5249.09
0
 FLOW DISTRIBUTION FOR SECNO=      2.69          CWSEL=   1276.52

 STA=    4919.    4935.    4983.    5129.    5232.    5249.
   PER Q=      .0      2.6     91.8      5.5      .0
    AREA=     4.2     72.9    793.7    156.3      4.4
     VEL=      .5      1.7      5.5      1.7      .5

 *SECNO 2.774
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3265 DIVIDED FLOW

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     1.01     7.70  1277.45      .00      .00  1278.13      .68     1.10      .07  1277.25
    4747.       0.     4338.     409.       1.     631.     218.     302.     126.  1275.25
      .70      .40     6.88     1.88     .070     .050     .070     .000  1269.75  5062.57
  .007318     208.     220.     245.        2        0        0      .00   481.63  5634.91
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1277.45

 STA=    5063.    5070.    5212.    5372.    5407.    5524.    5600.    5635.
   PER Q=      .0     91.4      8.3       .0       .0       .2       .0
    AREA=      .8    630.7    192.6      3.6      2.7     13.4      3.5
     VEL=      .4      6.9      2.1       .4       .4       .6       .4

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORRR    TOPWID     ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .750FT AND MULTIPLYING BY    .687

     2.77     8.52  1279.02      .00      .00  1279.73      .71     1.59      .01  1278.00
    4747.      15.     3822.     909.      14.     512.     417.     307.     129.  1276.00
      .71     1.13     7.46     2.18     .070     .050     .070     .000  1278.50  4926.03
  .006929     208.     220.     245.        3        0        0      .00   511.06  5437.09
0
 FLOW DISTRIBUTION FOR SECNO=      2.77          CWSEL=   1279.02

 STA=    4926.    4953.    5050.    5160.    5220.    5265.    5317.    5437.
   PER Q=      .3     80.5     13.2      1.4      1.1      2.0      1.4
    AREA=     13.7    512.5    221.9     46.1     34.5     52.9     61.1
     VEL=      1.1      7.5      2.8      1.5      1.5      1.8      1.1

 *SECNO 2.867
     2.87     7.78  1281.78      .00      .00  1282.14      .36     2.37      .04  1280.00
    4747.     702.     4005.     40.     457.     770.     34.     319.     134.  1280.00
      .73     1.53     5.20     1.19     .070     .050     .070     .000  1274.00  4570.84
  .003707     465.     490.     410.        2        0        0      .00   584.26  5155.10
0
 FLOW DISTRIBUTION FOR SECNO=      2.87          CWSEL=   1281.78

 STA=    4571.    4638.    4788.    4832.    4880.    4960.    5117.    5155.
   PER Q=      .4      6.1      3.1      2.0      3.3     84.4      .8
    AREA=     25.9    190.8     78.0     61.1    101.8    770.2     33.8
     VEL=      .7      1.5      1.9      1.5      1.5      5.2      1.2

 *SECNO 2.937
     2.94     7.43  1283.43      .00      .00  1283.78      .34     1.64      .00  1280.00
    4747.     691.     2223.     1833.     361.     353.     648.     331.     139.  1280.00
      .76     1.91     6.30     2.83     .070     .050     .070     .000  1276.00  4704.18
  .004747     290.     370.     540.        2        0        0      .00   589.49  5293.67
0
 FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1283.43

 STA=    4704.    4740.    4837.    4940.    4960.    5025.    5050.    5100.    5110.    5121.    5260.    5294.
   PER Q=      .6      5.4      5.8      2.7     46.8      3.4      6.8      4.3      4.7     18.8      .6
    AREA=     25.7    139.0    147.6     48.7    353.1     60.8    121.6     49.3     54.3    338.2     24.1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.011
      3.01     8.39  1285.39      .00      .00  1285.65      .26     1.87      .01  1284.00
     4747.      61.     1637.    3048.      56.     280.    1089.     344.     144.  1282.00
       .79     1.10     5.85     2.80     .070     .050     .070     .000  1277.00  4887.13
   .004362     370.     393.     430.        2        0        0      .00   530.15  5417.28
0
 FLOW DISTRIBUTION FOR SECNO=      3.01          CWSEL=   1285.39

 STA=    4887.    4968.    5021.    5171.    5370.    5400.    5417.
   PER Q=      1.3     34.5     25.9     34.3      3.8       .3
    AREA=     55.9    279.8    432.4    573.6     71.5     11.9
     VEL=      1.1      5.9      2.8      2.8      2.5      1.1

 *SECNO 3.140
      3.14     7.94  1288.24      .00      .00  1288.65      .40     2.95      .04  1286.00
     4747.     196.     2626.    1924.     113.     397.     923.     364.     154.  1286.00
       .83     1.73     6.61     2.08     .070     .050     .070     .000  1280.30  4863.70
   .004987     715.     680.     590.        2        0        0      .00   749.49  5613.19
0
 FLOW DISTRIBUTION FOR SECNO=      3.14          CWSEL=   1288.24

 STA=    4864.    4960.    5030.    5235.    5440.    5455.    5540.    5613.
   PER Q=      4.1     55.3     12.8     12.8      1.8     10.4      2.8
    AREA=    113.5    397.4    307.9    307.9     33.8    191.4     82.4
     VEL=      1.7      6.6      2.0      2.0      2.6      2.6      1.6

 *SECNO 3.247
      3.25     8.88  1291.18      .00      .00  1292.05      .87     3.26      .14  1288.00
     4747.     577.     3532.     637.     206.     413.     279.     380.     162.  1288.00
       .85     2.80     8.55     2.29     .070     .050     .070     .000  1282.30  4852.36
   .006549     550.     565.     600.        3        0        0      .00   434.61  5286.97
0
 FLOW DISTRIBUTION FOR SECNO=      3.25          CWSEL=   1291.18

 STA=    4852.    4870.    4960.    5020.    5100.    5250.    5287.
   PER Q=       .3     11.9     74.4     10.6      2.8       .0
    AREA=     10.4    195.8    413.1    174.1    101.4      3.3
     VEL=      1.2      2.9      8.6      2.9      1.3       .3
```



```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.354
      3.35     7.99  1294.29      .00      .00  1294.67      .37     2.57      .05  1292.00
     4747.    1100.     3306.     341.     497.     579.     236.     394.     168.  1292.00
       .88     2.22     5.71     1.45     .070     .050     .070     .000  1286.30  4717.68
   .003366     550.     565.     565.        3        0        0      .00   520.00  5237.69
0
```

```
 FLOW DISTRIBUTION FOR SECNO=      3.35          CWSEL=   1294.29

 STA=    4718.    4760.    4790.    4870.    4905.    4940.    5035.    5215.    5238.
   PER Q=      1.4      4.3     11.5      3.0      3.0     69.6      7.2       .0
    AREA=     46.3     83.8    223.4     71.5     71.5    578.8    232.7      3.3
     VEL=      1.4      2.4      2.4      2.0      2.0      5.7      1.5       .3

 *SECNO 3.465
     3.46     8.35  1296.85      .00      .00  1297.44      .59     2.71      .07  1294.00
    4747.    1556.    2974.     217.     661.     392.      99.     411.     176.   1294.00
      .91     2.35     7.58     2.19     .070     .050     .070     .000  1281.50  4407.15
  .006640     600.     585.     600.        2        0        0      .00   692.32  5099.48
0
 FLOW DISTRIBUTION FOR SECNO=      3.46          CWSEL=   1296.85

 STA=    4407.    4476.    4590.    4653.    4687.    4717.    4815.    4845.    4875.    4960.    5030.    5093.
   PER Q=       .6      1.8      1.0      3.5      6.3     10.0       .5       .5      8.7     62.6      4.6
    AREA=     29.4     69.0     38.1     63.1     85.7    181.8     18.2     18.2    157.7    392.4     93.2
     VEL=      1.0      1.2      1.2      2.6      3.5      2.6      1.2      1.2      2.6      7.6      2.2

 *SECNO 3.563

 3265 DIVIDED FLOW

     3.56     9.27  1299.77      .00      .00  1300.36      .59     2.92      .00  1298.00
    4747.    1036.    3029.     682.     542.     403.     292.     424.     184.   1296.00
      .94     1.91     7.52     2.34     .070     .050     .070     .000  1290.50  4419.89
  .005063     460.     520.     540.        2        0        0      .00   671.82  5213.68
0
 FLOW DISTRIBUTION FOR SECNO=      3.56          CWSEL=   1299.77

 STA=    4420.    4550.    4740.    4811.    4960.    5018.    5080.    5214.
   PER Q=      3.4     15.8      1.9       .7     63.8     10.9      3.5
    AREA=    116.0    338.6     63.5     23.8    402.6    172.5    119.1
     VEL=      1.4      2.2      1.4      1.4      7.5      3.0      1.4

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  05/03/88    15:30:29                                                                                    PAGE   83


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.656
     3.66    10.37  1302.37      .00      .00  1302.78      .41     2.40      .02  1300.00
    4747.    1153.    2840.     754.     638.     443.     335.     439.     192.   1300.00
      .97     1.91     6.41     2.25     .070     .050     .070     .000  1292.00  4468.14
  .004753     490.     490.     490.        2        0        0      .00   751.43  5219.57
0
 FLOW DISTRIBUTION FOR SECNO=      3.66          CWSEL=   1302.37

 STA=    4468.    4480.    4942.    5020.    5060.    5100.    5203.    5220.
   PER Q=       .0     24.3     59.8      5.2      5.2      5.4       .0
    AREA=      2.2    636.0    443.4     95.1     95.1    141.8      3.1
     VEL=       .5      1.8      6.4      2.6      2.6      1.8       .5

 *SECNO 3.737
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     3.74    10.26  1304.76  1304.76      .00  1305.49      .73     2.51      .10  1302.00
    4747.    1002.    2825.     920.     525.     325.     320.     452.     199.   1302.00
      .99     1.91     8.68     2.87     .070     .050     .070     .000  1294.50  4390.13
  .007440     460.     485.     700.        2        6        0      .00   913.71  5191.86
```

```
0
 FLOW DISTRIBUTION FOR SECNO=      3.74          CWSEL=   1304.76

 STA=    4380.    4466.    4608.    4736.    4820.    4890.    4970.    5020.    5047.    5185.    5192.
   PER Q=      .7      5.6      5.0      1.1       .9      7.9     59.5      5.7     13.7       .1
    AREA=    32.6    143.4    129.3     42.8     35.7    140.8    325.5     74.5    242.9      2.6
     VEL=     1.0      1.8      1.8      1.2      1.2      2.7      8.7      3.6      2.7      1.0

 *SECNO 3.816
      3.82    10.81  1307.31      .00      .00  1307.81      .51     2.30      .02  1304.00
     4747.     671.     3156.     919.     529.     458.     397.     465.     208.   1304.00
      1.01     1.27     6.88     2.31     .070     .050     .070     .000  1296.50  4325.12
   .004107     470.     420.     400.        2        0        0      .00   901.59  5226.71
0
 FLOW DISTRIBUTION FOR SECNO=      3.82          CWSEL=   1307.31

 STA=    4325.    4546.    4765.    4921.    4950.    4970.    5035.    5200.    5227.
   PER Q=      3.1      4.4      3.1      1.3      2.3     66.5     19.0       .4
    AREA=    143.9    175.9    125.3     37.8     46.1    458.5    390.0     17.4
     VEL=      1.0      1.2      1.2      1.6      2.4      6.9      2.4      1.0

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.879
      3.88     9.63  1308.63      .00      .00  1309.06      .42     1.23      .01  1306.00
     4747.     147.     4253.     347.      88.     775.     201.     474.     213.   1306.00
      1.03     1.67     5.49     1.72     .070     .050     .070     .000  1299.00  4893.06
   .003518     380.     330.     260.        2        0        0      .00   338.01  5231.07
0
 FLOW DISTRIBUTION FOR SECNO=      3.88          CWSEL=   1308.63

 STA=    4893.    4909.    4960.    5100.    5222.    5231.
   PER Q=      .1      3.0     89.6      7.3       .0
    AREA=     5.0     82.9    775.0    198.3      2.8
     VEL=      .6      1.7      5.5      1.7       .6

 *SECNO 3.945
      3.94     7.80  1309.80      .00      .00  1310.60      .80     1.43      .11  1308.00
     4747.     648.     4099.      0.     431.     534.      0.     483.     217.   1310.00
      1.04     1.50     7.68     .00     .080     .035     .035     .000  1302.00  4621.89
   .004463     520.     350.     280.        3        0        0      .00   467.00  5088.89
0
 FLOW DISTRIBUTION FOR SECNO=      3.94          CWSEL=   1309.80

 STA=    4622.    4790.    4798.    4830.    4854.    4883.    4930.    4970.    5090.
   PER Q=      3.7       .6     2.2      1.7      2.0      1.9      1.6     86.3
    AREA=    151.1     14.4    57.5     43.2     52.1     61.0     51.9    533.9
     VEL=      1.2      1.8      1.8      1.8      1.8      1.5      1.5      7.7

 SECNO 4.015
      4.01     8.24  1311.24      .00      .00  1311.90      .66     1.29      .01  1314.00
     4279.       0.     4279.      0.       0.     657.      0.     491.     220.   1312.00
      1.06      .00     6.51     .00     .080     .035     .035     .000  1303.00  4972.53
   .002564     560.     370.     260.        2        0        0      .00   122.88  5095.40
0
 FLOW DISTRIBUTION FOR SECNO=      4.01          CWSEL=   1311.24

 STA=    4972.    5000.
```

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  PER Q=    100.0
   AREA=    657.1
    VEL=      6.5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4.053
     4.05     8.42  1311.92      .00      .00  1312.37      .45      .45      .02  1312.00
    4279.       0.    4279.       0.       0.     797.       0.     494.     221.   1312.00
     1.07      .00     5.37      .00     .080     .035     .035     .000  1303.50  4950.46
  .001971     250.     200.     135.        2        0        0      .00   164.85  5115.31
0
 FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1311.92

 STA=    4950.    5197.
   PER Q=    100.0
    AREA=    797.2
     VEL=      5.4

 *SECNO 4.148
     4.15     8.11  1312.61      .00      .00  1312.67      .06      .26      .04  1310.00
    4279.     163.    4116.       0.     436.    2091.       0.     513.     226.   1319.00
     1.14      .37     1.97      .00     .080     .035     .035     .000  1304.50  4585.74
   .000240    500.     500.     500.        2        0        0      .00   770.06  5355.80

 FLOW DISTRIBUTION FOR SECNO=      4.15          CWSEL=   1312.61

 STA=    4586.    4705.    4953.    5370.
   PER Q=       .1      3.7     96.2
    AREA=     36.5    393.7   2090.9
     VEL=       .1       .4      2.0

 *SECNO 4.254
     4.25     7.97  1312.77      .00      .00  1313.02      .26      .29      .06  1312.00
    4279.      12.    4267.       0.      27.    1047.       0.     536.     234.   1319.00
     1.18      .43     4.07      .00     .080     .035     .035     .000  1304.80  4889.19
   .001888    560.     560.     560.        2        0        0      .00   388.87  5278.06
0
 FLOW DISTRIBUTION FOR SECNO=      4.25          CWSEL=   1312.77

 STA=    4889.    4960.    5303.
   PER Q=       .3     99.7
    AREA=     27.1   1047.3
     VEL=       .4      4.1

1
 05/03/88    15:30:29                                                                                    PAGE   86

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4.360
     4.36     8.33  1313.33      .00      .00  1313.39      .06      .35      .02  1310.00
    4279.     500.    3600.       0.     1199.    1715.       0.     551.     242.   1319.00
```

```
      1.26      .52     2.15      .00     .080     .035     .035     .000  1305.00  4205.20
   .000304     550.     560.     560.        2        0        0      .00  1006.69  5211.89
0
 FLOW DISTRIBUTION FOR SECNO=      4.36          CWSEL=   1313.33

 STA=    4205.    4450.    4866.    5234.
   PER Q=       .9     12.8     86.2
    AREA=    162.0    966.5   1715.2
     VEL=       .2       .6      2.2

 *SECNO 4.457
      4.46     7.98  1313.48      .00      .00  1313.55      .07      .16      .00  1310.00
     4279.     493.     3786.      0.    1000.    1733.      0.     594.     255.   1320.00
      1.33      .49     2.19      .00     .080     .035     .035     .000  1305.50  4086.15
   .000311     490.     515.     525.        2        0        0      .00  1055.82  5141.97
0
 FLOW DISTRIBUTION FOR SECNO=      4.46          CWSEL=   1313.48

 STA=    4086.    4522.    4795.    5185.
   PER Q=      2.0      9.5     88.5
    AREA=    322.5    677.0   1732.7
     VEL=       .3       .6      2.2

 *SECNO 4.554
      4.55     7.83  1313.63      .00      .00  1313.72      .09      .17      .01  1310.00
     4279.     599.     3680.      0.     955.    1432.      0.     623.     264.   1320.00
      1.39      .63     2.57      .00     .080     .035     .035     .000  1305.80  4421.42
   .000363     460.     510.     535.        2        0        0      .00   720.84  5142.26
0
 FLOW DISTRIBUTION FOR SECNO=      4.55          CWSEL=   1313.63

 STA=    4421.    4575.    4890.    5162.
   PER Q=       .9     13.1     86.0
    AREA=    125.5    829.6   1432.1
     VEL=       .3       .7      2.6

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                                                                THIS RUN EXECUTED 05/03/88   15:36:03
 ************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ************************************************


 T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
 T2      10-YEAR STORM EVENT
 T3      MCMICKEN DAM OUTLET WASH

 J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC    HVINS     Q        WSEL      FQ

       0.       5.       0.       0.   .000000      .00       .5       0.  1175.000     .000

 MULTIPLE PROFILE RUN WITH INTERPOLATED CROSS SECTIONS
 J2  NPROF    IPLOT    PRFVS    XSECV    XSECH     FN      ALLDC     IBW      CHNIM     ITRACE

     15.000     .000   -1.000     .000     .000     .000     .000     .000     .000    15.000

1
  05/03/88    15:30:29                                                                    PAGE   88
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```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 4

 CCHV=    .100 CEHV=    .300
 *SECNO  .000

 3265 DIVIDED FLOW

      .00     3.00  1175.00      .00  1175.00  1175.29      .29      .00      .00  1180.00
    2917.       0.    2917.       0.       0.     681.       0.       0.       0.   1200.00
      .00      .00     4.28      .00     .060     .040     .060     .000  1172.00  4394.00
  .009357       0.       0.       0.        0        0        0      .00   522.67  5025.33
0
 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1175.00

 STA=    4394.    5062.
   PER Q=    100.0
    AREA=    680.8
     VEL=      4.3

 *SECNO  .107

 1645 INT SEC ADDED BY RAISING SEC       .11,  -3.000FT AND MULTIPLYING BY   9.508


 265 DIVIDED FLOW

      1.01     3.49  1176.49      .00      .00  1176.62      .13     1.32      .02  1197.00
    2917.       0.    2917.       0.       0.    1009.       0.       3.       3.   1187.00
      .01      .00     2.89      .00     .060     .040     .060     .000  1173.00  5592.93
  .009359      238.     141.     128.        3        0        0      .00  1396.72 12304.26
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1176.49

 STA=    5593.   12671.
   PER Q=    100.0
    AREA=   1008.5
     VEL=      2.9


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.000FT AND MULTIPLYING BY    .706

1
 05/03/88    15:30:29                                                                    PAGE   89


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

      1.02     3.75  1177.75      .00      .00  1177.88      .13     1.26      .00  1198.00
    2917.       0.    2917.       0.       0.    1005.       0.       6.       7.   1188.00
      .03      .00     2.90      .00     .060     .040     .060     .000  1174.00  5194.94
  .009533      239.     141.     128.        3        0        0      .00  1398.76 [illegible]
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0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1177.75

 STA=    5195.    10203.
   PER Q=    100.0
    AREA=   1005.3
     VEL=      2.9


 1645 INT SEC ADDED BY RAISING SEC      1.02,   1.000FT AND MULTIPLYING BY    .583


 3265 DIVIDED FLOW

      1.03     4.17  1179.17      .00      .00  1179.26      .09     1.38      .00  1199.00
     2917.       0.    2917.       0.       0.    1182.       0.      10.      13.   1189.00
       .04      .00     2.47      .00     .060     .040     .060     .000  1175.00  4804.49
   .011383     238.     141.     128.        4        0        0      .00  2402.97  7604.77
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1179.17

 STA=    4804.     7736.
   PER Q=    100.0
    AREA=   1181.5
     VEL=      2.5


 1645 INT SEC ADDED BY RAISING SEC      1.03,   1.000FT AND MULTIPLYING BY    .285

       .11     4.70  1180.70      .00      .00  1180.93      .23     1.63      .04  1200.00
     2917.       0.    2917.       0.       0.     756.       0.      13.      19.   1190.00
       .05      .00     3.86      .00     .060     .040     .060     .000  1176.00  4428.44
   .011732     238.     141.     128.        4        0        0      .00   804.27  5232.71
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1180.70

 STA=    4428.     5268.
   PER Q=    100.0
    AREA=    756.1
     VEL=      3.9

 *SECNO  .159
       .16     4.83  1182.89      .00      .00  1183.06      .17     2.12      .01  1210.00
     2917.       0.    2917.       0.       0.     881.       0.      18.      23.   1190.00
       .08      .00     3.31      .00     .060     .040     .060     .000  1178.00  4441.93
   .005492     130.     274.     350.        4        0        0      .00   667.33  5109.26
0
 FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1182.89

 STA=    4442.     5150.
   PER Q=    100.0
    AREA=    881.2
     VEL=      3.3

 *SECNO  .238
       .26     5.14  1185.10      .00      .00  1185.32      .22     2.26      .01  1210.00
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    2917.      0.    2917.      0.      0.    778.      0.     26.     29.   1200.00
     .11     .00     3.75     .00    .060    .040    .060    .000  1190.00  4555.97
  .005242    140.     418.    575.       2       0       0     .00   472.01  5027.98
0
 FLOW DISTRIBUTION FOR SECNO=      .24          CWSEL=   1185.10

 STA=    4556.    5503.
   PER Q=    100.0
    AREA=    778.0
     VEL=      3.7

 *SECNO  .350
     .35     5.09  1189.59     .00     .00  1190.13     .54     4.72     .10  1192.50
    2917.      0.    2917.      0.      0.     494.      0.      34.     34.   1200.00
     .13     .00     5.90     .00    .060    .040    .060    .000  1184.50  4917.05
  .013648    480.     590.    760.       2       0       0     .00   310.68  5227.73
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      .35          CWSEL=   1189.59

 STA=    4917.    5428.
   PER Q=    100.0
    AREA=    494.3
     VEL=      5.9

 *SECNO  .437

 3265 DIVIDED FLOW

     .44     5.66  1193.66     .00     .00  1193.91     .24     3.74     .03  1200.00
    2917.      0.    2917.      0.      0.     737.      0.      41.     38.   1200.00
     .17     .00     3.96     .00    .060    .040    .060    .000  1188.00  4979.51
  .005419    470.     459.    450.       6       0       0     .00   421.71  5433.70
0
 FLOW DISTRIBUTION FOR SECNO=      .44          CWSEL=   1193.66

 STA=    4980.    5450.
   PER Q=    100.0
    AREA=    737.1
     VEL=      4.0

 *SECNO  .527
     .53     3.49  1196.49     .00     .00  1196.97     .48     3.00     .07  1200.00
    2917.      0.    2917.      0.      0.     525.      0.      48.     41.   1210.00
     .19     .00     5.56     .00    .060    .040    .060    .000  1193.00  4908.24
  .007269    525.     480.    150.       3       0       0     .00   225.56  5133.80
0
 FLOW DISTRIBUTION FOR SECNO=      .53          CWSEL=   1196.49

 STA=    4908.    5200.
   PER Q=    100.0
    AREA=    525.0
     VEL=      5.6

 *SECNO  .579
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```
     1.01      4.18  1197.06      .00      .00  1197.44      .38      .46      .01  1216.38
    2917.        0.    2917.       0.       0.     583.       0.      49.      42.   1220.38
      .19       .00     4.96      .00     .060     .040     .060     .000  1192.88  6894.89
  .006214      109.      68.      38.        2        0        0      .00   266.66  7161.55
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1197.06

STA=    6895.    7354.
  PER Q=    100.0
   AREA=    588.1
    VEL=      5.0


1645 INT SEC ADDED BY RAISING SEC      1.01,   -.125FT AND MULTIPLYING BY    .745


3265 DIVIDED FLOW

     1.02      4.73  1197.48      .00      .00  1197.91      .42      .45      .01  1216.25
    2917.        0.    2917.       0.       0.     558.       0.      50.      42.   1220.25
      .20       .00     5.23      .00     .060     .040     .060     .000  1192.75  5822.30
  .007071      109.      68.      38.        3        0        0      .00   257.74  6453.56
0
FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1197.48

STA=    5822.    6590.
  PER Q=    100.0
   AREA=    558.2
    VEL=      5.2


1645 INT SEC ADDED BY RAISING SEC      1.02,   -.125FT AND MULTIPLYING BY    .658


3265 DIVIDED FLOW

     1.03      5.35  1197.97      .00      .00  1198.51      .54      .57      .03  1216.13
    2917.        0.    2917.       0.       0.     496.       0.      50.      43.   1220.13
      .20       .00     5.88      .00     .060     .040     .060     .000  1192.63  5288.77
  .010003      109.      68.      38.        4        0        0      .00   248.65  5741.36
0
FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1197.97

STA=    5289.    5826.
  PER Q=    100.0
   AREA=    496.0
    VEL=      5.9

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
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```
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 1645 INT SEC ADDED BY RAISING SEC      1.03,   -.125FT AND MULTIPLYING BY    .481


 3265 DIVIDED FLOW

      .58     6.33  1198.83  1198.79     .00  1199.47     .65     .93     .03  1216.00
     2917.      0.    2917.      0.      0.     452.      0.     51.     43.   1220.00
      .20     .00     6.46     .00    .060     .040    .060    .000  1192.50  4692.37
   .019739    109.     68.     38.       8       12       0     .00   326.78  5025.31
0
 FLOW DISTRIBUTION FOR SECNO=       .58          CWSEL=   1198.83

 STA=    4682.    5062.
   PER Q=    100.0
    AREA=    451.5
     VEL=      6.5

 *SECNO  .647
      .65     5.02  1201.02     .00     .00  1201.24     .22    1.72     .04  1217.00
     2917.      0.    2917.      0.      0.     773.      0.     56.     45.   1210.00
      .23     .00     3.77     .00    .060     .040    .060    .000  1196.00  4937.30
   .002101    265.    360.    398.       4        0       0     .00   234.11  5171.40
0
 FLOW DISTRIBUTION FOR SECNO=       .65          CWSEL=   1201.02

 STA=    4937.    5228.
   PER Q=    100.0
    AREA=    773.2
     VEL=      3.0

 *SECNO  .746
      .75     4.11  1202.61     .00     .00  1203.27     .66    1.90     .13  1210.00
     2917.      0.    2917.      0.      0.     449.      0.     64.     48.   1210.00
      .25     .00     6.50     .00    .060     .040    .060    .000  1198.50  4916.96
   .007817    250.    521.    690.       2        0       0     .00   160.62  5077.58
0
 FLOW DISTRIBUTION FOR SECNO=       .75          CWSEL=   1202.61

 STA=    4917.    5109.
   PER Q=    100.0
    AREA=    448.6
     VEL=      6.5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 SECNO  .833
      .83     5.22  1205.22     .00     .00  1205.56     .35    2.27     .03  1210.00
     2917.      0.    2917.      0.      0.     617.      0.     69.     50.   1210.00
      .28     .00     4.73     .00    .060     .040    .060    .000  1200.00  4903.55
   .003426    475.    457.    457.       3        0       0     .00   191.69  5095.25
0
 FLOW DISTRIBUTION FOR SECNO=       .83          CWSEL=   1205.22

 STA=    4904.    5116.
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  PER Q=    100.0
   AREA=    616.6
    VEL=      4.7

 *SECNO  .946
      .95     5.00  1207.50      .00      .00  1207.92      .42     2.33      .02  1214.00
     2917.      0.    2917.       0.       0.     559.       0.      77.      52.   1210.00
      .31     .00     5.21      .00     .060     .040     .060     .000  1202.50  4894.40
  .004440     640.     600.     600.        2        0        0      .00   182.45  5076.85
0
 FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1207.50

 STA=    4894.    5090.
   PER Q=    100.0
    AREA=    559.4
     VEL=      5.2

 *SECNO 1.058
     1.06     5.15  1210.15      .00      .00  1210.55      .39     2.63      .00  1220.00
     2876.      0.    2876.       0.       0.     570.       0.      85.      55.   1220.00
      .34     .00     5.04      .00     .060     .040     .060     .000  1205.00  4909.52
  .004447     591.     591.     591.        2        0        0      .00   196.01  5105.53
0
 FLOW DISTRIBUTION FOR SECNO=      1.06          CWSEL=   1210.15

 STA=    4910.    5140.
   PER Q=    100.0
    AREA=    570.4
     VEL=      5.0

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 1.169
     1.17     3.99  1211.49      .00      .00  1212.04      .56     1.45      .05  1220.00
     2876.      0.    2876.       0.       0.     481.       0.      92.      57.   1220.00
      .37     .00     5.98      .00     .050     .020     .050     .000  1207.50  4919.56
  .001578     585.     585.     585.        3        0        0      .00   166.41  5085.97
0
 FLOW DISTRIBUTION FOR SECNO=      1.17          CWSEL=   1211.49

 STA=    4920.    5120.
   PER Q=    100.0
    AREA=    481.0
     VEL=      6.0

 *SECNO 1.191

 1645 INT SEC ADDED BY RAISING SEC      1.19,   -.500FT AND MULTIPLYING BY   5.548

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.01     4.52  1212.52  1212.52      .00  1213.05      .52      .17      .00  1219.50
     2876.      0.    2876.       0.       0.     495.       0.      93.      58.   1219.50
      .37     .00     5.81      .00     .050     .020     .050     .000  1208.00  5588.16
  .007124      58.      58.      58.       20       11        0      .00   555.72  6143.88
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1212.52
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STA=    5588.    6525.
  PER Q=    100.0
   AREA=    495.3
    VEL=      5.8

1645 INT SEC ADDED BY RAISING SEC      1.01,    .500FT AND MULTIPLYING BY    .180


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


     1.19     6.17  1214.67  1214.67      .00  1215.72     1.04      .35      .16  1220.00
    2876.       0.    2876.       0.       0.     351.       0.      93.      58.   1220.00
      .38      .00     8.20      .00     .050     .020     .050     .000  1208.50  4907.75
  .005323      58.      58.      58.       20       14        0      .00   186.50  5094.26
0
 FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1214.67

 STA=    4908.    5120.
  PER Q=    100.0
   AREA=    350.6
    VEL=      8.2

*SECNO 1.213

1645 INT SEC ADDED BY RAISING SEC      1.21,   -.250FT AND MULTIPLYING BY    .691


3301 HV CHANGED MORE THAN HVINS

     1.01     6.86  1215.61      .00      .00  1215.85      .24      .05      .08  1219.75
    2876.       0.    2876.       0.       0.     737.       0.      94.      58.   1219.75
      .38      .00     3.90      .00     .050     .020     .050     .000  1203.75  4810.75
  .000331      59.      59.      59.        2        0        0      .00   148.63  4959.39
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1215.61

 STA=    4811.    4971.
  PER Q=    100.0
   AREA=    737.3
    VEL=      3.9


1645 INT SEC ADDED BY RAISING SEC      1.01,    .250FT AND MULTIPLYING BY   1.448

     1.21     6.76  1215.76      .00      .00  1215.87      .12      .01      .01  1220.00
    2876.       0.    2876.       0.       0.    1043.       0.      95.      59.   1220.00
      .39      .00     2.76      .00     .050     .020     .050     .000  1209.00  4850.61
  .000169      59.      59.      59.        2        0        0      .00   214.42  5105.03
0
1
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.21          CWSEL=   1215.76

STA=    4891.    5122.
  PER Q=    100.0
   AREA=   1042.6
    VEL=      2.8

*SECNO 1.251

1645 INT SEC ADDED BY RAISING SEC      1.25,  -5.000FT AND MULTIPLYING BY    .914


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.01     2.60  1216.60  1216.60      .00  1217.62     1.02      .05      .27  1225.00
    2876.       0.    2876.       0.       0.     355.       0.      97.      59.  1225.00
      .39      .00     8.11      .00     .050     .020     .050     .000  1214.00  4890.47
  .004712      95.      95.      95.       20       18        0      .00   176.23  5066.70
0
FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1216.60

STA=    4890.    5105.
  PER Q=    100.0
   AREA=    354.5
    VEL=      8.1


1645 INT SEC ADDED BY RAISING SEC      1.01,   5.000FT AND MULTIPLYING BY   1.094

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.25     2.49  1221.49  1221.49      .00  1222.44      .95      .45      .01  1230.00
    2876.       0.    2876.       0.       0.     367.       0.      97.      59.  1230.00
      .39      .00     7.84      .00     .050     .020     .050     .000  1219.00  4895.53
  .004706      95.      95.      95.       20        8        0      .00   191.91  5087.44
0
1
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.25          CWSEL=   1221.49

STA=    4896.    5130.
  PER Q=    100.0
   AREA=    366.8
    VEL=      7.8

*SECNO 1.296
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.29      2.62  1233.62  1233.62      .00  1234.55      .92      1.52      .00  1240.00
    2876.        0.    2876.       0.       0.     373.       0.       99.      60.   1236.00
      .40       .00     7.71      .00     .060     .040     .060     .000  1231.00  4886.52
  .019520      180.     180.     180.       20        8        0      .00   205.69  5092.22
0
FLOW DISTRIBUTION FOR SECNO=      1.29          CWSEL=   1233.62

STA=    4887.    5121.
  PER Q=    100.0
   AREA=    372.9
    VEL=      7.7

*SECNO 1.307
     1.31      3.17  1235.47      .00      .00  1236.05      .58      1.47      .03  1236.00
    2876.        0.    2876.       0.       0.     471.       0.      100.      61.   1236.00
      .40       .00     6.10      .00     .060     .040     .060     .000  1232.30  4887.67
  .009274      113.     113.     113.        2        0        0      .00   210.99  5098.66
0
FLOW DISTRIBUTION FOR SECNO=      1.31          CWSEL=   1235.47

STA=    4888.    5100.
  PER Q=    100.0
   AREA=    471.2
    VEL=      6.1

*SECNO 1.381
     1.38      4.01  1237.51      .00      .00  1237.79      .29      1.71      .03  1240.00
    2876.        0.    2876.       0.       0.     682.       0.      105.      63.   1240.00
      .43       .00     4.21      .00     .060     .040     .060     .000  1233.50  4891.17
  .002520      395.     392.     380.        3        0        0      .00   200.12  5091.29
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.38          CWSEL=   1237.51

STA=    4891.    5100.
  PER Q=    100.0
   AREA=    682.4
    VEL=      4.2

*SECNO 1.479
     1.48      3.53  1239.03      .00      .00  1239.38      .35      1.57      .02  1240.00
    2876.        0.    2876.       0.       0.     604.       0.      113.      65.   1244.00
      .46       .00     4.76      .00     .060     .040     .060     .000  1235.50  4886.40
  .003759      475.     516.     550.        2        0        0      .00   199.21  5085.60
0
FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1239.03

STA=    4886.    5110.
  PER Q=    100.0
   AREA=    604.0
    VEL=      4.8

*SECNO 1.593
     1.59      2.67  1241.17      .00      .00  1241.50      .33      2.13      .00  1250.00
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    2876.      0.    2876.      0.      0.     625.      0.     121.     68.   1246.00
      .50     .00     4.60     .00    .060     .040    .060     .000  1237.50  4899.42
  .003285    603.     603.    603.       2        0       0      .00   196.25  5095.68
0
 FLOW DISTRIBUTION FOR SECNO=      1.50          CWSEL=   1241.17

 STA=    4899.    5118.
   PER Q=    100.0
    AREA=    625.4
     VEL=      4.6

 *SECNO 1.708
     1.71     3.51  1243.51     .00     .00  1243.94     .43     2.41     .03  1250.00
    2876.      0.    2876.      0.      0.     546.      0.     129.     70.   1248.00
      .53     .00     5.27     .00    .060     .040    .060     .000  1240.00  4900.15
  .004922    605.     605.    605.       1        0       0      .00   188.93  5089.08
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.71          CWSEL=   1243.51

 STA=    4900.    5110.
   PER Q=    100.0
    AREA=    545.6
     VEL=      5.3

 *SECNO 1.788
     1.79     3.80  1245.80     .00     .00  1246.28     .48     2.32     .02  1250.00
    2876.      0.    2876.      0.      0.     516.      0.     135.     72.   1250.00
      .55     .00     5.58     .00    .060     .040    .060     .000  1242.00  4894.00
  .006111    485.     425.    390.       2        0       0      .00   193.19  5087.19
0
 FLOW DISTRIBUTION FOR SECNO=      1.79          CWSEL=   1245.80

 STA=    4894.    5104.
   PER Q=    100.0
    AREA=    515.6
     VEL=      5.6

 *SECNO 1.858
     1.86     3.90  1247.70     .00     .00  1248.05     .35     1.76     .01  1250.00
    2876.      0.    2876.      0.      0.     604.      0.     139.     74.   1252.00
      .57     .00     4.76     .00    .060     .040    .060     .000  1243.80  4923.21
  .003792    425.     370.    320.       2        0       0      .00   200.27  5123.48
0
 FLOW DISTRIBUTION FOR SECNO=      1.86          CWSEL=   1247.70

 STA=    4923.    5155.
   PER Q=    100.0
    AREA=    603.7
     VEL=      4.8

 *SECNO 1.949

 1645 INT SEC ADDED BY RAISING SEC      1.95,  -1.600FT AND MULTIPLYING BY   1.282

     1.01     3.63  1249.03     .00     .00  1249.67     .64     1.53     .09  1254.40
    2876.      0.    2876.      0.      0.     660.      0.     142.     75.   1252.60
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```
      .58      .00     6.41      .00      .070     .050     .070     .000  1245.40  5006.07
   .012896    200.     240.     275.        2        0        0      .00   170.83  5176.90
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1249.03

 STA=    5006.    5246.
   PER Q=    100.0
    AREA=    448.6
     VEL=      6.4

 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.600FT AND MULTIPLYING BY    .780

      1.95     4.56  1251.56      .00      .00  1252.12      .56     2.45      .01  1256.00
    2876.       0.    2876.       0.       0.     478.       0.     145.      76.   1254.00
      .59      .00     6.02      .00      .070     .050     .070     .000  1247.00  4913.89
   .008252    200.     240.     275.        3        0        0      .00   142.90  5056.78
0
 FLOW DISTRIBUTION FOR SECNO=      1.95          CWSEL=   1251.56

 STA=    4914.    5104.
   PER Q=    100.0
    AREA=    478.1
     VEL=      6.0

 *SECNO 2.034

 1645 INT SEC ADDED BY RAISING SEC      2.03,   -.375FT AND MULTIPLYING BY   4.122

      1.01     5.40  1252.53      .00      .00  1253.02      .50      .90      .01  1259.63
    2876.       0.    2876.       0.       0.     509.       0.     146.      76.   1253.63
      .60      .00     5.65      .00      .070     .050     .070     .000  1247.13  6363.69
   .007695    105.     113.     115.        3        0        0      .00   159.24  6522.94
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1252.53

 STA=    6364.    6534.
   PER Q=    100.0
    AREA=    509.2
     VEL=      5.6

 1645 INT SEC ADDED BY RAISING SEC      1.01,    .125FT AND MULTIPLYING BY    .748

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

      1.02     6.09  1253.33      .00      .00  1253.93      .59      .88      .03  1259.75
    2876.       0.    2876.       0.       0.     465.       0.     147.      77.   1253.75
```

```
      .60      .00     6.18      .00     .070     .050     .070     .000  1247.25  5897.38
   .007870     105.     113.     115.        3        0        0      .00   128.92  6030.30
0
 FLOW DISTRIBUTION FOR SECNO=      1.02          CWSEL=   1253.33

 STA=    5897.    6030.
   PER Q=    100.0
    AREA=    465.2
     VEL=      6.2


 1645 INT SEC ADDED BY RAISING SEC      1.02,    .125FT AND MULTIPLYING BY    .662

     1.03     6.74  1254.12      .00      .00  1255.07      .95     1.04      .11  1259.08
    2876.       0.    2874.       2.       0.     366.       4.     140.      77.   1253.08
      .61      .00     7.84      .54     .070     .050     .070     .000  1247.38  5434.29
   .010969     105.     113.     115.        3        0        0      .00   127.50  5561.79
0
 FLOW DISTRIBUTION FOR SECNO=      1.03          CWSEL=   1254.12

 STA=    5434.    5525.    5562.
   PER Q=     99.9       .1
    AREA=    366.3      4.5
     VEL=      7.8       .5


 1645 INT SEC ADDED BY RAISING SEC      1.03,    .125FT AND MULTIPLYING BY    .490

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     2.03     8.56  1256.06  1256.06      .00  1257.29     1.23     1.26      .08  1260.00
    2876.       0.    2503.     373.       0.     264.     159.     149.      77.   1254.00
      .61      .00     9.49     2.35     .070     .050     .070     .000  1247.50  4971.67
   .011391     105.     113.     115.        2        8        0      .00   199.05  5170.72
0
 FLOW DISTRIBUTION FOR SECNO=      2.03          CWSEL=   1256.06

 STA=    4972.    5020.    5170.
   PER Q=     87.0     13.0
    AREA=    263.6    158.7
     VEL=      9.5      2.4

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 2.118

 1645 INT SEC ADDED BY RAISING SEC      2.12,  -1.750FT AND MULTIPLYING BY    .875


 1301 HV CHANGED MORE THAN HVINS

     1.01     9.28  1258.53      .00      .00  1258.99      .46     1.63      .08  1260.25
    2876.       0.    2206.     670.       0.     351.     317.     152.      79.   1256.25
      .62      .00     6.12     2.12     .070     .050     .070     .000  1249.25  4884.63
   .005439     253.     220.     185.        2        0        0      .00   324.26  5208.89
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1258.53
```

```
 STA=    4885.    4960.    5055.    5163.    5205.    5209.
   PER Q=     76.7     16.0      6.2       .3       .0
    AREA=    360.6    192.1    112.1     11.9       .5
     VEL=      6.1      2.5      1.6       .7       .4


1645 INT SEC ADDED BY RAISING SEC      1.01,   1.750FT AND MULTIPLYING BY   1.143

     2.12     8.75  1259.75      .00      .00  1260.33      .58     1.30      .03  1262.00
    2876.       0.    2418.     458.       0.     367.     226.     155.      80.  1258.00
      .63      .00     6.59     2.02     .070     .050     .070     .000  1251.00  4957.23
  .006919     253.     220.     185.        3        0        0      .00   294.02  5251.24
0
 FLOW DISTRIBUTION FOR SECNO=      2.12          CWSEL=   1259.75

 STA=    4957.    5040.    5148.    5251.
   PER Q=     84.1     13.0      2.9
    AREA=    367.1    161.9     64.5
     VEL=      6.6      2.3      1.3

 *SECNO 2.208
     2.21     8.94  1261.94      .00      .00  1262.19      .24     1.83      .03  1258.00
    2835.    1069.    1709.     58.     436.     363.      57.     163.      83.  1260.00
      .67     2.45     4.71     1.02     .070     .050     .070     .000  1253.00  4841.98
  .002385     525.     475.     435.        2        0        0      .00   246.34  5088.33
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.21          CWSEL=   1261.94

 STA=    4842.    4853.    4885.    4903.    4969.    5030.    5088.
   PER Q=      .4      7.1      6.5     23.8     60.3      2.0
    AREA=    10.7     94.2     71.0    260.3    363.1     56.7
     VEL=      1.0      2.1      2.6      2.6      4.7      1.0

 *SECNO 2.310

 1645 INT SEC ADDED BY RAISING SEC      2.31,  -1.250FT AND MULTIPLYING BY   1.035


 3301 HV CHANGED MORE THAN HVINS

     1.01     8.38  1262.63      .00      .00  1263.42      .79     1.07      .16  1260.75
    2835.     314.    2425.     96.     174.     316.      53.     167.      85.  1260.75
      .68     1.00     7.67     1.80     .070     .050     .070     .000  1254.25  4795.69
  .007818     270.     270.     270.        3        0        0      .00   303.84  5099.53
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1262.63

 STA=    4796.    4981.    5043.    5100.
   PER Q=     11.1     85.5      3.4
    AREA=    174.4    316.2     53.2
     VEL=      1.8      7.7      1.8


 1645 INT SEC ADDED BY RAISING SEC      1.01,   1.250FT AND MULTIPLYING BY    .966
```

```
    2835.     544.     2125.     166.     295.     345.     91.     171.     86.   1262.00
      .69     1.84      6.17     1.84     .070     .050     .070    .000  1255.50  4769.27
  .004312     270.      270.     270.        2        0        0     .00   323.97  5093.23
0
 FLOW DISTRIBUTION FOR SECNO=      2.31          CWSEL=   1264.53

 STA=    4769.    4780.    4970.    5030.    5088.    5093.
   PER Q=      .1     19.1     75.0      5.8       .0
    AREA=     2.9    292.0    344.7     89.1      1.4
     VEL=      .6      1.9      6.2      1.9       .6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 2.395
     2.39     7.96  1266.46      .00      .00  1266.89      .43     1.90      .00  1264.00
    2835.     276.     2404.     156.     158.     425.     91.     179.     90.   1264.00
      .72     1.74      5.66     1.72     .070     .050     .070    .000  1258.50  4851.97
  .004151     430.      450.     475.        3        0        0     .00   271.80  5123.77
0
 FLOW DISTRIBUTION FOR SECNO=      2.39          CWSEL=   1266.46

 STA=    4852.    4860.    4967.    5050.    5110.    5124.
   PER Q=      .0      9.7     84.8      5.4       .1
    AREA=     1.8    156.1    425.1     87.5      3.2
     VEL=      .5      1.8      5.7      1.8       .5

 *SECNO 2.486
     2.49     5.91  1268.91      .00      .00  1269.34      .43     2.45      .00  1268.00
    2835.      21.     2697.     116.      21.     498.     80.     186.     93.   1268.00
      .74     1.01      5.41     1.46     .070     .050     .070    .000  1263.00  4879.06
  .006438     450.      480.     525.        3        0        0     .00   293.57  5178.64
0
 FLOW DISTRIBUTION FOR SECNO=      2.49          CWSEL=   1268.91

 STA=    4879.    4925.    5070.    5105.    5135.    5179.
   PER Q=      .8     95.1      1.8      1.6       .7
    AREA=    21.1    498.2     32.2     27.6     20.0
     VEL=     1.0      5.4      1.6      1.6      1.0

 *SECNO 2.588
     2.59     6.73  1272.23      .00      .00  1272.93      .70     3.50      .09  1270.00
    2835.      72.     2519.     244.      38.     356.    124.     193.     96.   1270.00
      .77     1.07      7.07     1.97     .070     .050     .070    .000  1263.50  4928.66
  .006557     540.      540.     530.        2        0        0     .00   226.01  5154.68
0
 FLOW DISTRIBUTION FOR SECNO=      2.59          CWSEL=   1272.23

 STA=    4929.    4951.    4980.    5050.    5150.    5153.
   PER Q=      .0      2.5     88.9      8.6       .0
    AREA=     2.6     35.8    356.4    123.4       .5
     VEL=      .4      2.0      7.1      2.0       .4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
```

```
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


 *SECNO 2.691
      2.69     6.22  1275.22      .00      .00  1275.55      .32     2.50      .04  1274.00
    2835.      17.    2783.      35.      18.     604.      38.     200.      99.   1274.00
      .80      .92     4.60      .92     .070     .050     .070     .000  1269.00  4953.69
   .003649    550.     540.     520.        2        0        0      .00   238.19  5191.89
0
 FLOW DISTRIBUTION FOR SECNO=      2.69          CWSEL=   1275.22

 STA=    4954.    4983.    5129.    5192.
   PER Q=       .6     98.2      1.2
    AREA=     17.9    604.4     38.4
     VEL=       .9      4.6       .9

 *SECNO 2.774

 1645 INT SEC ADDED BY RAISING SEC      2.77,   -.750FT AND MULTIPLYING BY   1.525

      1.01     6.44  1276.19      .00      .00  1276.71      .52     1.11      .06  1277.25
    2835.       0.    2794.      41.       0.     460.      37.     203.     100.   1275.25
      .81      .00     5.83     1.10     .070     .050     .070     .000  1269.75  5098.49
   .007326    208.     220.     245.        2        0        0      .00   216.65  5315.14
0
 FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1276.19

 STA=    5098.    5236.    5315.
   PER Q=     98.6      1.4
    AREA=    479.5     37.1
     VEL=      5.8      1.1


 1645 INT SEC ADDED BY RAISING SEC      1.01,    .750FT AND MULTIPLYING BY    .656

      2.77     7.28  1277.78      .00      .00  1278.47      .69     1.71      .05  1278.00
    2835.       0.    2681.     154.       0.     392.      87.     205.     101.   1276.00
      .82      .00     6.84     1.77     .070     .050     .070     .000  1270.50  4954.40
   .008151    208.     220.     245.        3        0        0      .00   193.33  5147.73
0
 FLOW DISTRIBUTION FOR SECNO=      2.77          CWSEL=   1277.78

 STA=    4954.    5050.    5148.
   PER Q=     94.6      5.4
    AREA=    392.3     86.8
     VEL=      6.8      1.8

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 SECNO 2.867

 3265 DIVIDED FLOW

      2.87     6.77  1280.77      .00      .00  1281.07      .30     2.56      .04  1280.00
    2835.      95.    2735.       4.     119.     614.       7.     212.     104.   1280.00
      .85      .80     4.45      .69     .070     .050     .070     .000  1274.00  4671.22
   .003676    465.     490.     610.        2        0        0      .00   476.19  5133.76
```

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0
 FLOW DISTRIBUTION FOR SECNO=      2.97          CWSEL=   1280.77

 STA=    4671.    4788.    4832.    4869.    4960.    5117.    5134.
   PER Q=      1.1      1.3       .4       .6     96.5       .2
    AREA=     45.5     34.3     14.5     24.2    614.2      6.5
     VEL=       .7      1.1       .7       .7      4.5       .7

 *SECNO 2.937
      2.94     6.48  1282.48      .00      .00  1282.84      .36     1.75      .02  1280.00
     2835.     152.    1722.     961.     127.     291.     402.     219.     109.   1280.00
       .88     1.19     5.92     2.39     .070     .050     .070     .000  1275.00  4728.14
   .005442     290.     370.     540.        2        0        0      .00   543.01  5271.15
0
 FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1282.48

 STA=    4728.    4740.    4837.    4940.    4960.    5025.    5050.    5100.    5110.    5121.    5260.    5271.
   PER Q=      .1      1.5      1.6      2.1     60.8      2.6      5.3      5.4      5.9     14.7       .1
    AREA=     2.8     46.0     48.9     29.5    290.8     36.9     73.7     39.7     43.7    205.0      2.6
     VEL=      .6      1.0      1.0      2.0      5.9      2.0      2.0      3.8      3.8      2.0       .6

 *SECNO 3.011
      3.01     7.56  1284.56      .00      .00  1284.76      .20     1.90      .02  1284.00
     2835.       5.    1183.    1646.       9.     236.     766.     228.     113.   1282.00
       .91      .57     5.02     2.15     .070     .050     .070     .000  1277.00  4935.51
   .004021     370.     393.     430.        3        0        0      .00   471.44  5406.94
0
 FLOW DISTRIBUTION FOR SECNO=      3.01          CWSEL=   1284.56

 STA=    4936.    4968.    5021.    5171.    5370.    5400.    5407.
   PER Q=      .2     41.7     23.7     31.4      3.0       .0
    AREA=     9.0    235.9    308.3    409.0     46.7      1.9
     VEL=      .6      5.0      2.2      2.2      1.8       .6

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        DLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 3.140

 3265 DIVIDED FLOW

      3.14     7.11  1287.41      .00      .00  1287.87      .47     3.03      .08  1286.00
     2835.       55.    2124.     656.      44.     338.     441.     241.     121.   1286.00
       .95     1.25     6.28     1.49     .070     .050     .070     .000  1290.30  4896.09
   .005597     715.     680.     590.        2        0        0      .00   661.99  5585.58
0
 FLOW DISTRIBUTION FOR SECNO=      3.14          CWSEL=   1287.41

 STA=    4897.    4960.    5030.    5222.    5440.    5455.    5540.    5586.
   PER Q=      2.0     74.9      5.9      5.9      1.5      8.4      1.4
    AREA=     44.2    337.9    134.4    134.4     21.0    119.2     32.0
     VEL=      1.3      6.3      1.3      1.3      2.0      2.0      1.3

 *SECNO 3.247
      3.25     7.99  1290.29      .00      .00  1290.91      .62     3.00      .05  1288.00
     2835.     206.    2443.     186.     117.     360.     110.     250.     128.   1288.00
       .97     1.76     6.78     1.69     .070     .050     .070     .000  1292.30  4865.61
   .004951     550.     565.     600.        2        0        0      .00   278.24  5143.85
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 FLOW DISTRIBUTION FOR SECNO=      3.25          CWSEL=   1290.29

 STA=    4866.    4960.    5020.    5100.    5144.
   PER Q=      7.3     86.2      6.5      .1
    AREA=    117.0    360.0    103.4     6.4
     VEL=      1.8      6.8      1.8      .4

*SECNO 3.354
      3.35     6.74  1293.04      .00      .00  1293.41      .38     2.47      .02  1292.00
     2835.     369.    2425.      41.     233.     459.      48.     259.     132.   1292.00
      1.00     1.58     5.28      .86     .070     .050     .070     .000  1286.30  4741.87
   .003913     550.     565.     565.        3        0        0      .00   386.34  5128.22
0
 FLOW DISTRIBUTION FOR SECNO=      3.35          CWSEL=   1293.04

 STA=    4742.    4760.    4790.    4870.    4905.    4940.    5035.    5128.
   PER Q=      .3      2.9      7.7      1.1      1.1     85.5      1.5
    AREA=     9.4     46.1    122.9     27.5     27.5    459.4     48.3
     VEL=      .9      1.8      1.8      1.1      1.1      5.3      .9

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 3.465

 3265 DIVIDED FLOW

      3.46     7.40  1295.90      .00      .00  1296.51      .61     3.03      .07  1294.00
     2835.     499.    2259.      77.     254.     326.      44.     268.     137.   1294.00
      1.03     1.96     6.93     1.73     .070     .050     .070     .000  1288.50  4654.58
   .007107     600.     585.     600.        2        0        0      .00   353.31  5076.40
0
 FLOW DISTRIBUTION FOR SECNO=      3.46          CWSEL=   1295.90

 STA=    4655.    4687.    4717.    4810.    4960.    5030.    5076.
   PER Q=      1.9      5.6      5.4      4.7     79.7      2.7
    AREA=     30.9     57.2     89.1     77.3    326.0     44.2
     VEL=      1.7      2.8      1.7      1.7      6.9      1.7

 *SECNO 3.563

 3265 DIVIDED FLOW

      3.56     8.37  1298.87      .00      .00  1299.42      .54     2.90      .01  1298.00
     2835.     264.    2291.     281.     218.     350.     146.     276.     142.   1296.00
      1.06     1.21     6.54     1.92     .070     .050     .070     .000  1290.50  4485.56
   .004600     460.     520.     540.        2        0        0      .00   483.19  5146.20
0
 FLOW DISTRIBUTION FOR SECNO=      3.56          CWSEL=   1298.87

 STA=    4486.    4550.    4740.    4775.    4960.    5018.    5080.    5146.
   PER Q=      .8      7.8      .5      .2     80.8      9.0      .9
    AREA=    28.4    167.7     15.6     5.8    350.4    116.7     29.2
     VEL=      .8      1.3      .8      .8      6.5      2.2      .8

 *SECNO 3.656
      3.66     9.42  1301.42      .00      .00  1301.89      .47     2.47      .01  1300.00
     2835.     292.    2252.     291.     233.     369.     165.     284.     148.   1300.00
      1.00     1.26     6.11     1.76     .070     .050     .070     .000  1293.00  4616.25
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  .005526     490.     490.     490.        2        0        0      .00   558.82  5173.07
0
 FLOW DISTRIBUTION FOR SECNO=      3.66          CWSEL=   1301.42

 STA=    4614.    4942.    5020.    5060.    5100.    5173.
   PER Q=     10.3     79.4      4.0      4.0      2.3
   AREA=    232.5    368.7     56.8     56.8     51.8
    VEL=      1.3      6.1      2.0      2.0      1.3

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.737

 3265 DIVIDED FLOW

      3.74     9.42  1303.92  1303.90      .00  1304.75      .83     2.75      .11  1302.00
     2835.     166.    2288.     381.     122.     284.     179.     291.     153.   1302.00
      1.10     1.36     8.07     2.13     .070     .050     .070     .000  1294.50  4488.15
   .007728     460.     425.     390.        0        5        0      .00   514.38  5179.62
0
 FLOW DISTRIBUTION FOR SECNO=      3.74          CWSEL=   1303.92

 STA=    4488.    4608.    4716.    4970.    5020.    5047.    5180.
   PER Q=       .6       .5      4.7     90.7      5.3      8.2
   AREA=      25.3     22.8     73.9    283.6     51.9    127.4
    VEL=       .7       .7      1.8      8.1      2.9      1.8

 *SECNO 3.816

 3265 DIVIDED FLOW

      3.82     9.95  1306.45      .00      .00  1306.90      .45     2.12      .04  1304.00
     2835.      82.    2365.     388.      97.     403.     241.     297.     158.   1304.00
      1.12      .85     5.87     1.61     .070     .050     .070     .000  1296.50  4470.00
   .003548     470.     420.     400.        2        0        0      .00   532.33  5209.19
0
 FLOW DISTRIBUTION FOR SECNO=      3.82          CWSEL=   1306.45

 STA=    4470.    4546.    4644.    4921.    4950.    4970.    5035.    5200.    5209.
   PER Q=       .3       .4       .3       .3      1.6     83.4     13.6       .0
   AREA=      17.0     22.0     15.7     13.0     29.0    402.9    239.0      2.1
    VEL=       .5       .5       .5       .7      1.6      5.9      1.6       .5

 *SECNO 3.879
      3.88     8.66  1307.66      .00      .00  1307.93      .27     1.01      .02  1306.00
     2835.      34.    2719.      82.      35.     639.      84.     303.     161.   1306.00
      1.15      .98     4.25      .98     .070     .050     .070     .000  1299.00  4917.77
   .002731     380.     330.     260.        3        0        0      .00   283.27  5201.03
0
 FLOW DISTRIBUTION FOR SECNO=      3.88          CWSEL=   1307.66

 STA=    4918.    4960.    5100.    5201.
   PER Q=      1.2     95.9      2.9
   AREA=      35.0    639.4     83.7
    VEL=      1.0      4.3      1.0

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 05/03/88    15:31:20                                                                          PAGE  111
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 3.945

 3265 DIVIDED FLOW

     3.94     6.61  1308.61  1307.65      .00  1309.35      .74     1.28      .14  1308.00
    2835.      72.    2763.       0.      89.     396.       0.     308.     164.   1310.00
     1.16      .82     6.98      .00     .080     .035     .035     .000  1302.00  4733.75
  .005103     520.     350.     280.        4       14        0      .00   313.89  5082.31
0
 FLOW DISTRIBUTION FOR SECNO=      3.94          CWSEL=   1308.61

 STA=    4734.    4790.    4798.    4830.    4854.    4883.    4911.    4970.    5090.
   PER Q=      .4       .2       .6       .5       .6       .2       .2     97.4
    AREA=    16.9      4.8     19.3     14.4     17.4      8.5      7.2    395.6
     VEL=      .6       .9       .9       .9       .9       .6       .6      7.0

 *SECNO 4.015
     4.01     7.09  1310.09      .00      .00  1310.48      .39     1.10      .03  1314.00
    2613.       0.    2613.       0.       0.     521.       0.     312.     166.   1312.00
     1.18      .00     5.02      .00     .080     .035     .035     .000  1303.00  4976.36
  .001862     560.     370.     260.        2        0        0      .00   113.57  5089.93
0
 FLOW DISTRIBUTION FOR SECNO=      4.01          CWSEL=   1310.09

 STA=    4976.    5099.
   PER Q=    100.0
    AREA=    521.0
     VEL=      5.0

 *SECNO 4.053
     4.05     7.04  1310.54      .00      .00  1310.85      .31      .36      .01  1312.00
    2613.       0.    2613.       0.       0.     584.       0.     315.     167.   1312.00
     1.19      .00     4.48      .00     .080     .035     .035     .000  1303.50  4958.58
  .001744     250.     200.     135.        2        0        0      .00   144.66  5103.24
0
 FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1310.54

 STA=    4959.    5197.
   PER Q=    100.0
    AREA=    583.7
     VEL=      4.5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 4.148
     4.15     6.63  1311.13      .00      .00  1311.17      .05      .29      .03  1310.00
    2613.      17.    2596.       0.      78.    1493.       0.     327.     171.   1319.00
     1.27      .21     1.74      .00     .080     .035     .035     .000  1304.50  4813.98
  .000290     500.     500.     500.        2        0        0      .00   538.51  5352.49
```

```
 FLOW DISTRIBUTION FOR SECNO=      4.15          CWSEL=   1311.13

 STA=    4814.    4953.    5370.
   PER Q=       .6     99.4
    AREA=     77.9   1493.0
     VEL=       .2      1.7

*SECNO 4.254
      4.25     6.54  1311.34      .00      .00  1311.62      .28      .38      .07  1312.00
     2613.       0.    2613.       0.       0.     619.       0.     341.     176.   1319.00
      1.31      .00     4.22      .00     .080     .035     .035     .000  1304.80  4963.30
   .002949     560.     560.     560.        2        0        0      .00   249.07  5212.37
0
 FLOW DISTRIBUTION FOR SECNO=      4.25          CWSEL=   1311.34

 STA=    4963.    5303.
   PER Q=    100.0
    AREA=    619.1
     VEL=      4.2

*SECNO 4.360
      4.36     7.03  1312.03      .00      .00  1312.09      .06      .45      .02  1310.00
     2613.     152.    2461.       0.     425.    1268.       0.     356.     182.   1319.50
      1.39      .36     1.94      .00     .080     .035     .035     .000  1305.00  4446.23
   .000364     550.     560.     560.        2        0        0      .00   761.00  5207.23
0
 FLOW DISTRIBUTION FOR SECNO=      4.36          CWSEL=   1312.03

 STA=    4446.    4866.    5234.
   PER Q=      5.8     94.2
    AREA=    424.5   1267.6
     VEL=       .4      1.9

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 05/03/88    15:30:29                                                                    PAGE  113


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4.457
      4.46     6.71  1312.21      .00      .00  1312.27      .05      .18      .00  1310.00
     2613.     129.    2484.       0.     337.    1298.       0.     376.     191.   1320.00
      1.47      .38     1.91      .00     .080     .035     .035     .000  1305.50  4459.66
   .000339     490.     515.     525.        2        0        0      .00   673.93  5133.60
0
 FLOW DISTRIBUTION FOR SECNO=      4.46          CWSEL=   1312.21

 STA=    4460.    4522.    4795.    5185.
   PER Q=       .0      4.9     95.1
    AREA=      6.6     330.8   1298.0
     VEL=       .1       .4      1.9

*SECNO 4.554
      4.55     6.58  1312.38      .00      .00  1312.45      .07      .18      .00  1310.00
     2613.     188.    2425.       0.     441.    1118.       0.     394.     198.   1320.00
      1.54      .43     2.17      .00     .080     .035     .035     .000  1305.80  4539.51
   .000352     460.     510.     535.        2        0        0      .00   598.86  5138.37
0
 FLOW DISTRIBUTION FOR SECNO=      4.55          CWSEL=   1312.38

 STA=    4540.    4575.    4890.    5162.
   PER Q=       .0      7.2     92.8
```

AREA= 6.7 433.9 1117.7
VEL= .1 .4 2.2

PROFILE
#1. 100 YR EVENT WITH NO ENCROACHMENT
#2. 100 YR EVENT WITH FW ENCROACHMENT
#3 50 YR EVENT
#4 10 YR EVENT

EXECUTED 05/03/88 15:37:27

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

MCMICKEN DAM OUTLET WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	6522.00	1176.64	4025.13	4010.00	5062.00	5032.43	.00	1007.30	4.64	1172.00	27.64	3.15
	.000	6522.00	1176.98	4023.59	4010.00	5062.00	5033.91	.00	1010.32	4.98	1172.00	16.59	2.70
	.000	5085.00	1176.00	4029.00	4010.00	5062.00	5029.67	.00	915.67	4.00	1172.00	50.93	3.56
	.000	2917.00	1175.00	4394.00	4010.00	5062.00	5025.33	.00	522.67	3.00	1172.00	93.57	4.28
*	.107	6522.00	1181.69	4423.61	4282.00	5268.00	5236.38	3.13	812.77	5.69	1176.00	55.93	4.24
*	.107	6522.00	1181.02	4426.69	4282.00	5268.00	5233.88	4.04	806.99	5.02	1176.00	228.12	6.49
*	.107	5085.00	1181.08	4426.66	4282.00	5268.00	5234.06	1.50	807.40	5.08	1176.00	122.72	4.88
*	.107	2917.00	1180.70	4428.44	4282.00	5268.00	5232.71	1.53	804.27	4.70	1176.00	117.32	3.86
	.159	6522.00	1183.46	4438.60	4355.00	5150.00	5115.76	1.77	677.17	5.46	1178.00	84.73	5.17
	.159	6522.00	1183.83	4436.36	4355.00	5150.00	5120.12	2.81	683.76	5.83	1178.00	46.17	4.29
	.159	5085.00	1183.41	4438.96	4355.00	5150.00	5115.06	2.33	676.09	5.41	1178.00	57.50	4.17
	.159	2917.00	1182.89	4441.93	4355.00	5150.00	5109.26	2.19	667.33	4.89	1178.00	54.92	3.31
	.238	6522.00	1186.39	4551.20	4500.00	5503.00	5311.97	2.93	760.76	6.39	1180.00	54.15	4.32
	.238	6522.00	1185.98	4552.75	4500.00	5503.00	5039.71	2.14	486.96	5.98	1180.00	64.54	5.44
	.238	5085.00	1185.72	4553.69	4500.00	5503.00	5036.27	2.32	482.58	5.72	1180.00	55.89	4.73
	.238	2917.00	1185.10	4555.97	4500.00	5503.00	5027.98	2.21	472.01	5.10	1180.00	52.42	3.75
*	.350	6522.00	1190.95	4488.67	4855.00	5428.00	5263.67	2.69	449.78	6.45	1184.50	91.15	6.69
	.350	6522.00	1190.75	4897.02	4855.00	5428.00	5262.49	4.77	365.47	6.25	1184.50	117.80	7.30
	.350	5085.00	1190.29	4493.03	4855.00	5428.00	5259.77	4.57	379.74	5.79	1184.50	132.97	6.96
	.350	2917.00	1189.59	4917.05	4855.00	5428.00	5227.73	4.49	310.68	5.09	1184.50	136.48	5.90
	.437	6522.00	1194.65	4978.03	4970.00	5450.00	5436.23	3.70	458.20	6.65	1188.00	63.62	5.54
	.437	6522.00	1194.76	4977.86	4970.00	5450.00	5436.52	4.01	458.65	6.76	1188.00	55.38	5.31
	.437	5085.00	1194.40	4978.39	4970.00	5450.00	5435.62	4.11	457.23	6.40	1188.00	53.33	4.76
	.437	2917.00	1193.66	4979.51	4970.00	5450.00	5433.70	4.07	421.71	5.66	1188.00	54.19	3.96
	.527	6522.00	1198.15	4654.51	4603.00	5200.00	5175.80	3.51	431.47	5.15	1193.00	89.93	6.38
	.527	6522.00	1198.07	4657.17	4603.00	5200.00	5175.33	3.31	410.14	5.07	1193.00	98.51	6.56
	.527	5085.00	1197.52	4697.73	4603.00	5200.00	5161.85	3.12	329.19	4.52	1193.00	93.42	6.43
	.527	2917.00	1196.49	4908.24	4603.00	5200.00	5133.80	2.83	225.56	3.49	1193.00	72.69	5.56

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
*	.579	6522.00	1200.11	4562.41	4465.00	5062.00	5030.11	.23	467.69	7.61	1192.50	122.39	6.69
	.579	6522.00	1200.51	4552.77	4465.00	5062.00	5030.51	2.44	477.73	8.01	1192.50	69.59	5.60
*	.579	5085.00	1199.80	4595.25	4465.00	5062.00	5029.19	.32	443.94	7.30	1192.50	117.46	6.11
	.579	2917.00	1198.83	4682.37	4465.00	5062.00	5025.31	.85	326.78	6.33	1192.50	197.39	6.46
	.647	6522.00	1202.68	4745.20	4686.00	5228.00	5181.86	2.56	357.24	6.68	1196.00	38.42	5.27
	.647	6522.00	1202.48	4746.00	4686.00	5228.00	5180.64	1.97	343.62	6.48	1196.00	44.01	5.57
	.647	5085.00	1202.13	4747.47	4686.00	5228.00	5178.41	2.33	318.63	6.13	1196.00	34.41	4.83
	.647	2917.00	1201.02	4937.30	4686.00	5228.00	5171.40	2.19	234.11	5.02	1196.00	21.01	3.77
*	.746	6522.00	1204.67	4906.64	4880.00	5109.00	5086.36	1.12	179.71	6.17	1198.50	66.21	8.15
	.746	6522.00	1204.81	4905.95	4880.00	5109.00	5086.94	2.33	180.98	6.31	1198.50	60.39	7.91
	.746	5085.00	1204.13	4909.38	4880.00	5109.00	5084.03	2.00	174.66	5.63	1198.50	59.55	7.23
	.746	2917.00	1202.61	4916.96	4880.00	5109.00	5077.58	1.59	160.62	4.11	1198.50	78.17	6.50
	.833	6522.00	1207.27	4894.29	4882.00	5116.00	5104.16	2.60	209.87	7.27	1200.00	35.06	6.33
	.833	6522.00	1207.26	4894.33	4882.00	5116.00	5104.13	2.43	209.80	7.26	1200.00	35.23	6.34
	.833	5085.00	1206.51	4897.73	4882.00	5116.00	5100.86	2.38	203.13	6.51	1200.00	35.46	5.83
	.833	2917.00	1205.22	4903.55	4882.00	5116.00	5095.25	2.61	191.69	5.22	1200.00	34.26	4.73
	.946	6522.00	1209.53	4886.78	4870.00	5090.00	5087.51	2.26	200.73	7.03	1202.50	43.47	6.88
	.946	6522.00	1209.53	4886.78	4870.00	5090.00	5087.51	2.27	200.73	7.03	1202.50	43.48	6.88
	.946	5085.00	1208.80	4889.51	4870.00	5090.00	5083.68	2.29	194.17	6.30	1202.50	43.73	6.32
	.946	2917.00	1207.50	4894.40	4870.00	5090.00	5076.85	2.28	182.45	5.00	1202.50	44.40	5.21
	1.058	6273.00	1212.09	4903.48	4853.00	5140.00	5112.30	2.56	208.82	7.09	1205.00	40.47	6.52
	1.058	6273.00	1212.09	4903.48	4853.00	5140.00	5112.30	2.56	208.83	7.09	1205.00	40.46	6.52
	1.058	4916.00	1211.38	4905.68	4853.00	5140.00	5109.84	2.58	204.15	6.38	1205.00	41.62	6.02
	1.058	2876.00	1210.15	4909.52	4853.00	5140.00	5105.53	2.66	196.02	5.15	1205.00	44.47	5.04
	1.169	6273.00	1213.29	4909.37	4880.00	5120.00	5093.15	1.20	183.78	5.79	1207.50	15.99	7.87
	1.169	6273.00	1213.29	4909.37	4880.00	5120.00	5093.15	1.20	183.78	5.79	1207.50	15.99	7.87
	1.169	4916.00	1212.64	4912.21	4880.00	5120.00	5090.55	1.25	178.34	5.14	1207.50	16.04	7.24
	1.169	2876.00	1211.49	4919.56	4880.00	5120.00	5085.97	1.34	166.41	3.99	1207.50	15.78	5.98
*	1.191	6273.00	1216.02	4903.27	4890.00	5120.00	5100.76	1.63	197.50	7.52	1208.50	43.44	10.30
*	1.191	6273.00	1216.02	4903.25	4890.00	5120.00	5100.79	2.74	197.54	7.52	1208.50	43.22	10.28
*	1.191	4916.00	1215.55	4904.85	4890.00	5120.00	5098.47	1.77	193.62	7.05	1208.50	45.03	9.52
*	1.191	2876.00	1214.67	4907.75	4890.00	5120.00	5094.26	2.15	186.50	6.17	1208.50	53.23	8.20
*	1.213	6273.00	1217.60	4885.97	4880.00	5122.00	5112.44	.15	226.47	8.60	1209.00	2.87	4.32
	1.213	6273.00	1217.60	4886.01	4880.00	5122.00	5112.38	1.57	226.37	8.60	1209.00	2.89	4.33
*	1.213	4916.00	1216.93	4887.67	4880.00	5122.00	5109.73	.12	222.05	7.93	1209.00	2.49	3.76
*	1.213	2876.00	1215.76	4890.61	4880.00	5122.00	5105.03	.14	214.42	6.76	1209.00	1.69	2.76
*	1.251	6273.00	1222.81	4891.58	4870.00	5130.00	5094.04	3.24	202.46	3.81	1219.00	40.40	10.01
*	1.251	6273.00	1222.80	4891.60	4870.00	5130.00	5094.00	5.20	202.40	3.80	1219.00	40.70	10.03
*	1.251	4916.00	1222.32	4893.04	4870.00	5130.00	5091.61	3.25	198.57	3.32	1219.00	42.41	9.28
*	1.251	2876.00	1221.49	4895.53	4870.00	5130.00	5087.44	4.89	191.91	2.49	1219.00	47.06	7.84

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
*	1.286	6273.00	1234.89	4878.74	4860.00	5121.00	5108.79	12.08	230.04	3.89	1231.00	168.16	9.63
*	1.286	6273.00	1234.89	4878.74	4860.00	5121.00	5108.79	12.09	230.05	3.89	1231.00	168.04	9.63
*	1.286	4916.00	1234.43	4880.42	4860.00	5121.00	5103.75	12.11	223.34	3.43	1231.00	176.81	8.90
*	1.286	2876.00	1233.62	4883.52	4860.00	5121.00	5092.22	12.13	205.69	2.62	1231.00	195.20	7.71
	1.307	6273.00	1236.70	4891.52	4885.00	5100.00	5110.44	1.81	228.92	4.40	1232.30	102.82	8.53
	1.307	6273.00	1236.70	4891.63	4885.00	5100.00	5110.23	1.81	215.00	4.40	1232.30	102.40	8.53

	1.307	4916.00	1236.27	4883.67	4885.00	5100.00	5103.98	1.84	220.31	3.97	1232.30	99.10	7.66
	1.307	2876.00	1235.47	4887.67	4885.00	5100.00	5098.66	1.85	210.99	3.17	1232.30	92.74	6.10
*	1.381	6273.00	1239.19	4880.25	4875.00	5100.00	5097.17	.78	216.92	5.69	1233.50	33.60	6.07
	1.381	6273.00	1239.36	4879.19	4875.00	5100.00	5097.74	2.66	218.55	5.86	1233.50	30.34	5.87
	1.381	4916.00	1238.70	4883.49	4875.00	5100.00	5095.44	2.42	211.96	5.20	1233.50	28.74	5.31
	1.381	2876.00	1237.51	4891.17	4875.00	5100.00	5091.29	2.04	200.12	4.01	1233.50	25.20	4.21
	1.479	6273.00	1240.96	4874.48	4882.00	5110.00	5094.78	1.77	220.30	5.46	1235.50	35.92	6.25
	1.479	6273.00	1241.00	4882.00	4882.00	5110.00	5094.96	1.64	212.96	5.50	1235.50	35.29	6.20
	1.479	4916.00	1240.30	4879.71	4882.00	5110.00	5091.46	1.60	211.75	4.80	1235.50	35.69	5.69
	1.479	2876.00	1239.03	4886.40	4882.00	5110.00	5085.60	1.52	199.21	3.53	1235.50	37.59	4.76
	1.593	6273.00	1243.09	4893.03	4870.00	5118.00	5104.54	2.13	211.51	5.59	1237.50	34.32	6.17
	1.593	6273.00	1243.10	4893.01	4870.00	5118.00	5104.58	2.10	211.57	5.60	1237.50	34.16	6.16
	1.593	4916.00	1242.40	4895.33	4870.00	5118.00	5101.36	2.11	206.03	4.90	1237.50	33.81	5.63
	1.593	2876.00	1241.17	4899.42	4870.00	5118.00	5095.68	2.14	196.25	3.67	1237.50	32.85	4.60
	1.708	6273.00	1245.39	4894.90	4882.00	5110.00	5097.84	2.30	202.94	5.39	1240.00	46.33	6.87
	1.708	6273.00	1245.39	4894.90	4882.00	5110.00	5097.84	2.29	202.94	5.39	1240.00	46.33	6.87
	1.708	4916.00	1244.71	4896.80	4882.00	5110.00	5094.66	2.31	197.85	4.71	1240.00	47.20	6.33
	1.708	2876.00	1243.51	4900.15	4882.00	5110.00	5089.08	2.34	188.93	3.51	1240.00	49.22	5.27
	1.788	6273.00	1247.52	4888.26	4880.00	5104.00	5094.09	2.13	205.82	5.52	1242.00	57.80	7.30
	1.788	6273.00	1247.52	4888.26	4880.00	5104.00	5094.09	2.13	205.83	5.52	1242.00	57.79	7.30
	1.788	4916.00	1246.89	4890.36	4880.00	5104.00	5091.57	2.18	201.20	4.83	1242.00	58.95	6.72
	1.788	2876.00	1245.80	4894.00	4880.00	5104.00	5087.19	2.29	193.19	3.80	1242.00	61.11	5.58
	1.858	6273.00	1249.50	4916.02	4882.00	5155.00	5132.48	1.97	216.46	5.70	1243.80	40.08	6.41
	1.858	6273.00	1249.50	4916.02	4882.00	5155.00	5132.48	1.97	216.46	5.70	1243.80	40.08	6.41
	1.858	4916.00	1248.85	4918.62	4882.00	5155.00	5129.23	1.96	210.61	5.05	1243.80	39.49	5.85
	1.858	2876.00	1247.70	4923.21	4882.00	5155.00	5123.48	1.90	200.27	3.90	1243.80	37.92	4.76
*	1.949	6273.00	1253.64	4907.39	4900.00	5104.00	5095.98	2.85	188.59	6.64	1247.00	95.19	7.68
	1.949	6273.00	1252.46	4911.04	4900.00	5104.00	5070.26	2.97	159.22	5.46	1247.00	197.02	10.22
*	1.949	4916.00	1252.87	4909.78	4900.00	5104.00	5079.13	2.73	169.35	5.87	1247.00	93.37	7.23
*	1.949	2876.00	1251.56	4913.89	4900.00	5104.00	5056.78	2.53	142.90	4.56	1247.00	82.52	6.02
*	2.034	6273.00	1257.71	4968.04	4963.00	5020.00	5191.37	1.33	223.33	10.21	1247.50	144.01	12.18
	2.034	6273.00	1258.61	4970.00	4963.00	5020.00	5150.00	6.14	180.00	11.11	1247.50	86.11	10.24
*	2.034	4916.00	1257.24	4969.07	4963.00	5020.00	5185.51	1.59	216.44	9.74	1247.50	124.97	10.96
*	2.034	2876.00	1256.06	4971.67	4963.00	5020.00	5170.72	1.94	199.05	8.56	1247.50	113.91	9.49

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
*	2.118	6273.00	1261.62	4943.05	4940.00	5040.00	5344.28	.79	401.23	10.62	1251.00	61.39	7.18
	2.118	6273.00	1262.14	4945.00	4940.00	5040.00	5145.00	3.53	200.00	11.14	1251.00	64.71	7.88
*	2.118	4916.00	1260.99	4948.06	4940.00	5040.00	5334.88	1.11	386.81	9.99	1251.00	63.32	6.99
*	2.118	2876.00	1259.75	4957.23	4940.00	5040.00	5251.24	1.22	294.02	8.75	1251.00	69.19	6.59
	2.208	6023.00	1263.82	4831.36	4969.00	5030.00	5144.58	2.20	313.23	10.82	1253.00	31.92	6.53
	2.208	6023.00	1264.42	4835.00	4969.00	5030.00	5050.00	2.28	215.00	11.42	1253.00	85.46	6.13
	2.208	4747.00	1263.19	4834.96	4969.00	5030.00	5125.53	2.19	290.57	10.19	1253.00	28.93	5.88
	2.208	2835.00	1261.94	4841.98	4969.00	5030.00	5088.33	2.20	246.34	8.94	1253.00	23.85	4.71
	2.310	6023.00	1265.92	4741.63	4970.00	5030.00	5106.71	2.10	365.07	10.42	1255.50	58.34	8.28
	2.310	6023.00	1266.15	4850.00	4970.00	5030.00	5050.00	1.73	200.00	10.65	1255.50	68.19	9.15
	2.310	4747.00	1265.19	4756.22	4970.00	5030.00	5099.59	2.00	343.38	9.69	1255.50	65.92	8.19
*	2.310	2835.00	1264.53	4769.27	4970.00	5030.00	5093.23	1.90	323.97	9.03	1255.50	43.12	6.17
	2.395	6023.00	1268.29	4819.91	4967.00	5050.00	5174.36	2.38	354.45	9.79	1258.50	43.88	7.13
	2.395	6023.00	1269.79	[illegible]	4967.00	5050.00	5100.00	2.64	200.00	10.29	1258.50	50.01	6.05

	2.395	4747.00	1267.73	4829.76	4967.00	5050.00	5161.84	2.56	332.08	9.23	1258.50	40.93	6.51
	2.395	2835.00	1266.46	4851.97	4967.00	5050.00	5123.77	1.93	271.80	7.96	1258.50	41.51	5.66
	2.486	6023.00	1270.66	4817.78	4925.00	5070.00	5246.41	2.35	428.63	7.66	1263.00	52.40	6.42
	2.486	6023.00	1270.94	4900.00	4925.00	5070.00	5085.00	2.15	185.00	7.94	1263.00	61.17	7.18
	2.486	4747.00	1270.03	4824.52	4925.00	5070.00	5231.10	2.30	406.59	7.03	1263.00	56.97	6.15
	2.486	2835.00	1268.91	4879.06	4925.00	5070.00	5178.64	2.45	299.57	5.91	1263.00	64.38	5.41
	2.588	6023.00	1273.77	4781.23	4980.00	5050.00	5185.55	3.11	404.33	8.27	1265.50	80.87	9.37
	2.588	6023.00	1274.27	4825.00	4980.00	5050.00	5105.00	3.33	210.00	8.77	1265.50	69.09	9.07
	2.588	4747.00	1273.27	4829.55	4980.00	5050.00	5175.43	3.23	345.88	7.77	1265.50	75.61	8.59
	2.588	2835.00	1272.23	4828.66	4980.00	5050.00	5154.68	3.32	226.01	6.73	1265.50	65.57	7.07
*	2.691	6023.00	1277.17	4898.80	4983.00	5129.00	5270.54	1.36	371.73	8.17	1269.00	36.37	5.34
	2.691	6023.00	1277.42	4975.00	4983.00	5129.00	5165.00	3.15	190.00	8.42	1269.00	36.80	6.14
	2.691	4747.00	1276.52	4918.95	4983.00	5129.00	5249.09	3.25	330.14	7.52	1269.00	36.06	5.49
	2.691	2835.00	1275.22	4953.69	4983.00	5129.00	5191.89	2.99	238.19	6.22	1269.00	36.49	4.60
	2.774	6023.00	1279.27	4919.38	4953.00	5050.00	5466.70	2.10	547.32	8.77	1270.50	87.14	8.63
	2.774	6023.00	1279.48	4950.00	4953.00	5050.00	5130.00	2.06	180.00	8.98	1270.50	94.68	9.22
*	2.774	4747.00	1279.02	4926.03	4953.00	5050.00	5437.09	1.57	511.06	8.52	1270.50	69.29	7.46
*	2.774	2835.00	1277.78	4954.40	4953.00	5050.00	5147.73	1.59	193.33	7.28	1270.50	81.51	6.84
*	2.867	6023.00	1282.03	4548.52	4960.00	5117.00	5162.39	.93	613.87	8.03	1274.00	46.37	6.02
	2.867	6023.00	1282.89	4920.00	4960.00	5117.00	5160.00	3.41	240.00	8.89	1274.00	36.85	5.94
	2.867	4747.00	1281.78	4570.84	4960.00	5117.00	5155.10	2.76	584.26	7.78	1274.00	37.07	5.20
	2.867	2835.00	1280.77	4671.22	4960.00	5117.00	5133.74	3.00	434.18	6.77	1274.00	36.76	4.45
	2.937	6023.00	1283.95	4691.27	4960.00	5025.00	5305.00	1.92	614.53	7.95	1276.00	44.98	6.51
	2.937	6023.00	1284.56	4880.00	4960.00	5025.00	5190.00	1.67	330.00	8.56	1276.00	42.63	6.76
	2.937	4747.00	1283.43	4724.18	4960.00	5025.00	5293.67	1.65	589.49	7.43	1276.00	47.47	6.30
	2.937	2835.00	1282.48	4728.14	4960.00	5025.00	5271.15	1.71	543.01	6.48	1276.00	54.42	5.92

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	3.011	6023.00	1285.85	4859.99	4968.00	5021.00	5423.08	1.90	563.10	9.85	1277.00	44.72	6.27
	3.011	6023.00	1286.43	4920.00	4968.00	5021.00	5280.00	1.87	350.00	9.43	1277.00	47.34	6.88
	3.011	4747.00	1285.39	4867.13	4968.00	5021.00	5417.28	1.96	530.15	8.39	1277.00	43.62	5.85
	3.011	2835.00	1284.56	4915.51	4968.00	5021.00	5405.94	2.08	471.44	7.56	1277.00	40.21	5.02
	3.140	6023.00	1288.69	4852.63	4960.00	5030.00	5627.58	2.84	774.95	8.39	1280.30	47.57	6.79
	3.140	6023.00	1289.48	4870.00	4960.00	5030.00	5235.00	3.05	365.00	9.18	1280.30	52.43	7.72
	3.140	4747.00	1288.24	4863.70	4960.00	5030.00	5613.19	2.86	749.49	7.94	1280.30	49.87	6.61
	3.140	2835.00	1287.41	4896.89	4960.00	5030.00	5585.58	2.85	661.99	7.11	1280.30	55.97	6.28
*	3.247	6023.00	1292.55	4601.66	4960.00	5020.00	5479.17	2.38	677.51	10.25	1282.30	32.50	6.80
	3.247	6023.00	1292.31	4900.00	4960.00	5020.00	5280.00	2.83	300.00	10.01	1282.30	49.83	8.21
	3.247	4747.00	1291.18	4852.36	4960.00	5020.00	5286.97	2.93	434.61	8.88	1282.30	35.49	8.55
	3.247	2835.00	1290.29	4865.61	4960.00	5020.00	5143.85	2.89	278.24	7.99	1282.30	49.51	6.78
	3.354	6023.00	1294.59	4710.27	4940.00	5035.00	5260.56	2.04	550.38	8.29	1286.30	41.82	6.57
	3.354	6023.00	1295.04	4830.00	4940.00	5035.00	5140.00	2.73	310.00	8.74	1286.30	41.97	6.89
	3.354	4747.00	1294.29	4717.68	4940.00	5035.00	5237.69	3.12	520.00	7.99	1286.30	33.66	5.71
	3.354	2835.00	1293.04	4741.87	4940.00	5035.00	5128.22	2.74	386.34	6.74	1286.30	39.13	5.28
	3.465	6023.00	1297.42	4361.81	4960.00	5030.00	5113.18	2.84	751.37	8.92	1288.50	55.66	7.46
	3.465	6023.00	1297.93	4750.00	4960.00	5030.00	5070.00	2.90	320.00	9.43	1288.50	64.63	8.41
	3.465	4747.00	1296.85	4407.15	4960.00	5030.00	5099.48	2.56	692.32	8.35	1288.50	56.40	7.58
	3.465	2835.00	1295.90	4654.58	4960.00	5030.00	5076.40	2.87	353.31	7.40	1288.50	71.07	6.93
	3.563	6023.00	1300.15	4397.99	4960.00	5018.00	5235.46	2.73	739.91	9.65	1290.50	55.46	8.15
	3.563	6023.00	1301.01	4700.00	4960.00	5018.00	5063.00	3.08	304.18	10.51	1290.50	55.71	8.55

	3.563	4747.00	1299.77	4419.39	4960.00	5010.00	5213.68	2.92	671.82	9.27	1290.50	50.63	7.52
	3.563	2835.00	1298.87	4485.56	4960.00	5010.00	5146.20	2.97	489.19	8.37	1290.50	46.00	6.54
	3.656	6023.00	1302.85	4453.32	4942.00	5020.00	5240.27	2.70	786.95	10.85	1292.00	44.37	6.53
	3.656	6023.00	1303.83	4650.00	4942.00	5020.00	5100.00	2.82	450.00	11.83	1292.00	35.83	5.50
	3.656	4747.00	1302.37	4468.14	4942.00	5020.00	5219.57	2.60	751.43	10.37	1292.00	47.53	6.41
	3.656	2835.00	1301.42	4614.25	4942.00	5020.00	5173.07	2.55	558.82	9.42	1292.00	55.66	6.11
	3.737	6023.00	1305.09	4343.94	4970.00	5020.00	5194.72	2.23	830.76	10.58	1294.50	79.59	9.27
*	3.737	6023.00	1305.31	4750.00	4970.00	5020.00	5100.00	1.48	350.00	10.81	1294.50	106.91	10.98
*	3.737	4747.00	1304.76	4380.13	4970.00	5020.00	5191.84	2.39	811.71	10.26	1294.50	74.48	8.68
	3.737	2835.00	1303.92	4488.15	4970.00	5020.00	5179.52	2.50	514.30	9.42	1294.50	77.58	8.07
	3.816	6023.00	1307.75	4250.39	4970.00	5035.00	5235.75	2.67	985.36	11.25	1296.50	40.87	7.15
	3.816	6023.00	1308.59	4720.00	4970.00	5035.00	5100.00	3.27	380.00	12.09	1296.50	36.76	7.28
	3.816	4747.00	1307.31	4325.12	4970.00	5035.00	5226.71	2.56	901.59	10.81	1296.50	41.07	6.88
	3.816	2835.00	1306.45	4470.00	4970.00	5035.00	5209.19	2.53	532.33	9.95	1296.50	35.48	5.87
	3.879	6023.00	1309.05	4476.66	4960.00	5100.00	5237.28	1.31	370.87	10.05	1299.00	41.33	6.25
	3.879	6023.00	1309.80	4863.23	4960.00	5100.00	5150.00	1.21	286.77	10.80	1299.00	38.26	5.59
	3.879	4747.00	1308.63	4893.06	4960.00	5100.00	5231.07	1.33	330.01	9.63	1299.00	33.18	5.49
	3.879	2835.00	1307.66	4917.77	4960.00	5100.00	5201.03	1.21	283.27	8.66	1299.00	27.31	4.25

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SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*E	VCH
3.945	6023.00	1310.38	4561.70	4970.00	5090.00	5103.39	1.33	541.69	8.38	1302.00	42.04	8.04
3.945	6023.00	1310.65	4850.00	4970.00	5090.00	5090.00	.85	240.00	8.65	1302.00	44.74	8.55
3.945	4747.00	1309.80	4621.89	4970.00	5090.00	5098.89	1.17	467.00	7.80	1302.00	44.63	7.68
3.945	2835.00	1308.61	4733.75	4970.00	5090.00	5082.31	.96	313.89	6.61	1302.00	51.03	6.98
4.015	5087.00	1311.77	4970.77	4957.00	5099.00	5097.90	1.39	127.14	8.77	1303.00	27.60	7.04
4.015	5087.00	1312.25	4968.37	4957.00	5099.00	5099.00	1.60	130.63	9.25	1303.00	21.80	6.48
4.015	4279.00	1311.24	4972.53	4957.00	5099.00	5095.40	1.44	122.80	8.24	1303.00	25.64	6.51
4.015	2613.00	1310.09	4976.36	4957.00	5099.00	5089.93	1.48	113.57	7.09	1303.00	18.82	5.02
4.053	5087.00	1312.67	4841.99	4950.00	5197.00	5201.05	.90	359.06	9.17	1303.50	24.01	5.19
4.053	5087.00	1312.97	4950.00	4950.00	5197.00	5197.00	.73	247.00	9.47	1303.50	19.19	4.84
4.053	4279.00	1311.92	4950.46	4950.00	5197.00	5115.31	.68	164.89	8.42	1303.50	19.71	5.37
4.053	2613.00	1310.54	4958.58	4950.00	5197.00	5103.24	.45	144.66	7.04	1303.50	17.44	4.48
4.148	5087.00	1313.32	4448.49	4953.00	5370.00	5357.37	.65	900.80	8.82	1304.50	2.13	2.01
4.148	5087.00	1313.54	4953.00	4953.00	5370.00	5357.87	.57	404.87	9.04	1304.50	2.16	2.06
4.148	4279.00	1312.61	4585.74	4953.00	5370.00	5355.80	.69	770.06	8.11	1304.50	2.40	1.97
4.148	2613.00	1311.13	4813.98	4953.00	5370.00	5352.49	.58	538.51	6.63	1304.50	2.90	1.74
4.254	5087.00	1313.44	4827.19	4960.00	5303.00	5280.74	.12	453.55	8.64	1304.00	14.29	3.99
4.254	5087.00	1313.67	4960.00	4960.00	5303.00	5281.68	.13	321.60	8.87	1304.00	12.17	3.81
4.254	4279.00	1312.77	4889.19	4960.00	5303.00	5278.96	.15	388.87	7.97	1304.00	18.88	4.07
4.254	2613.00	1311.34	4963.30	4960.00	5303.00	5212.37	.22	249.07	6.54	1304.00	29.49	4.22
4.360	5087.00	1313.93	4092.94	4866.00	5234.00	5214.07	.50	1121.13	8.93	1305.00	2.73	2.19
4.360	5087.00	1314.14	4866.00	4866.00	5234.00	5214.82	.47	348.82	9.14	1305.00	3.57	2.54
4.360	4279.00	1313.33	4205.20	4866.00	5234.00	5211.89	.56	1006.69	8.33	1305.00	3.04	2.15
4.360	2613.00	1312.03	4446.23	4866.00	5234.00	5207.23	.69	761.00	7.03	1305.00	3.64	1.94
4.457	5087.00	1314.07	3925.17	4795.00	5185.00	5145.86	.14	1220.69	8.57	1305.50	2.84	2.23
4.457	5087.00	1314.33	4795.00	4795.00	5185.00	5147.55	.18	352.55	8.83	1305.50	3.44	2.51
4.457	4279.00	1313.48	4086.15	4795.00	5185.00	5141.97	.16	1055.82	7.98	1305.50	3.11	2.19
4.457	2613.00	1312.21	4459.66	4795.00	5185.00	5133.60	.18	673.93	6.71	1305.50	3.39	1.91
4.554	5087.00	1314.21	4342.67	4890.00	5162.00	5144.05	.14	801.30	8.41	1305.00	3.51	2.68
4.554	5087.00	1314.40	4900.00	4890.00	5162.00	5144.92	.16	254.00	8.60	1305.00	4.50	2.00

4.554	4279.00	1313.63	4421.42	4890.00	5162.00	5142.25	.15	720.84	7.83	1305.00	3.63	2.57
4.554	2613.00	1312.38	4539.51	4890.00	5162.00	5138.37	.17	598.86	6.58	1305.00	3.50	2.17

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MCMICKEN DAM OUTLET WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1176.64	-1.36	1175.79	1007.30	.00	6522.00	.00	.00	.00	4010.00	5062.00	.00
	.000	1176.98	.34	1177.09	1010.32	.00	6522.00	.00	.00	4010.00	4010.00	5062.00	5062.00
	.000	1176.00	.00	1176.20	915.67	.00	5085.00	.00	.00	.00	4010.00	5062.00	.00
	.000	1175.00	.00	1175.29	522.67	.00	2917.00	.00	.00	.00	4010.00	5062.00	.00
*	.107	1181.69	.00	1181.97	812.77	.00	6522.00	.00	.00	.00	4282.00	5268.00	.00
*	.107	1181.02	-.66	1181.68	806.95	.00	6522.00	.00	.00	4282.00	4282.00	5268.00	5268.00
*	.107	1181.08	.00	1181.45	807.40	.00	5085.00	.00	.00	.00	4282.00	5268.00	.00
*	.107	1180.70	.00	1180.93	804.27	.00	2917.00	.00	.00	.00	4282.00	5268.00	.00
	.159	1183.46	.00	1183.87	677.17	.00	6522.00	.00	.00	.00	4355.00	5150.00	.00
	.159	1183.83	.38	1184.12	683.76	.00	6522.00	.00	.00	4355.00	4355.00	5150.00	5150.00
	.159	1183.41	.00	1183.68	676.09	.00	5085.00	.00	.00	.00	4355.00	5150.00	.00
	.159	1182.89	.00	1183.06	667.33	.00	2917.00	.00	.00	.00	4355.00	5150.00	.00
	.238	1186.39	.00	1186.68	760.76	.00	6522.00	.00	.00	.00	4500.00	5503.00	.00
	.238	1185.98	-.41	1186.44	486.96	.00	6522.00	.00	.00	4500.00	4500.00	5503.00	5503.00
	.238	1185.72	.00	1186.07	482.58	.00	5085.00	.00	.00	.00	4500.00	5503.00	.00
	.238	1185.10	.00	1185.32	472.01	.00	2917.00	.00	.00	.00	4500.00	5503.00	.00
*	.350	1190.95	.00	1191.63	449.78	60.41	6461.58	.00	.00	.00	4855.00	5428.00	.00
	.350	1190.75	-.20	1191.58	365.47	.00	6522.00	.00	.00	4855.00	4855.00	5428.00	5428.00
	.350	1190.29	.00	1191.04	379.74	4.54	5000.46	.00	.00	.00	4855.00	5428.00	.00
	.350	1189.59	.00	1190.13	310.68	.00	2917.00	.00	.00	.00	4855.00	5428.00	.00
	.437	1194.65	.00	1195.12	458.20	.00	6522.00	.00	.00	.00	4970.00	5450.00	.00
	.437	1194.76	.11	1195.19	458.65	.00	6522.00	.00	.00	4970.00	4970.00	5450.00	5450.00
	.437	1194.40	.00	1194.75	457.23	.00	5085.00	.00	.00	.00	4970.00	5450.00	.00
	.437	1193.66	.00	1193.91	421.71	.00	2917.00	.00	.00	.00	4970.00	5450.00	.00
	.527	1198.15	.00	1198.77	431.47	.00	6522.00	.00	.00	.00	4603.00	5200.00	.00
	.527	1198.07	-.08	1198.74	418.14	.00	6522.00	.00	.00	4603.00	4603.00	5200.00	5200.00
	.527	1197.52	.00	1198.16	329.15	.00	5085.00	.00	.00	.00	4603.00	5200.00	.00
	.527	1196.49	.00	1196.97	225.56	.00	2917.00	.00	.00	.00	4603.00	5200.00	.00
*	.579	1200.11	.00	1200.81	467.69	.00	6522.00	.00	.00	.00	4465.00	5062.00	.00
	.579	1200.51	.40	1201.00	477.73	.00	6522.00	.00	.00	4465.00	4465.00	5062.00	5062.00
*	.579	1199.80	.00	1200.38	443.94	.00	5085.00	.00	.00	.00	4465.00	5062.00	.00
*	.579	1198.83	.00	1199.47	326.78	.00	2917.00	.00	.00	.00	4465.00	5062.00	.00
	.647	1202.68	.00	1203.11	357.24	.00	6522.00	.00	.00	.00	4686.00	5228.00	.00
	.647	1202.48	-.19	1202.96	343.62	.00	6522.00	.00	.00	4686.00	4686.00	5228.00	5228.00
	.647	1202.13	.00	1202.49	318.63	.00	5085.00	.00	.00	.00	4686.00	5228.00	.00
	.647	1201.02	.00	1201.24	234.11	.00	2917.00	.00	.00	.00	4686.00	5228.00	.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	.746	1206.67	.00	1205.79	170.71	.00	6522.00	.00	.00	.00	4890.00	5162.00	.00

	.746	1204.81	.14	1205.78	180.90	.00	6522.00	.00	.00	4880.00	4880.00	5109.00	5109.00
	.746	1204.13	.00	1204.94	174.66	.00	5085.00	.00	.00	.00	4880.00	5109.00	.00
	.746	1202.61	.00	1203.27	160.62	.00	2917.00	.00	.00	.00	4880.00	5109.00	.00
	.833	1207.27	.00	1207.89	209.87	.00	6522.00	.00	.00	.00	4882.00	5116.00	.00
	.833	1207.26	-.01	1207.89	209.80	.00	6522.00	.00	.00	4882.00	4882.00	5116.00	5116.00
	.833	1206.51	.00	1207.03	203.13	.00	5085.00	.00	.00	.00	4882.00	5116.00	.00
	.833	1205.22	.00	1205.56	191.69	.00	2917.00	.00	.00	.00	4882.00	5116.00	.00
	.946	1209.53	.00	1210.26	200.73	.00	6522.00	.00	.00	.00	4870.00	5090.00	.00
	.946	1209.53	.00	1210.26	200.73	.00	6522.00	.00	.00	4870.00	4870.00	5090.00	5090.00
	.946	1208.80	.00	1209.42	194.17	.00	5085.00	.00	.00	.00	4870.00	5090.00	.00
	.946	1207.50	.00	1207.92	182.45	.00	2917.00	.00	.00	.00	4870.00	5090.00	.00
	1.058	1212.09	.00	1212.75	208.82	.00	6273.00	.00	.00	.00	4853.00	5140.00	.00
	1.058	1212.09	.00	1212.75	208.83	.00	6273.00	.00	.00	4853.00	4853.00	5140.00	5140.00
	1.058	1211.38	.00	1211.94	204.15	.00	4916.00	.00	.00	.00	4853.00	5140.00	.00
	1.058	1210.15	.00	1210.55	196.01	.00	2876.00	.00	.00	.00	4853.00	5140.00	.00
	1.169	1213.29	.00	1214.25	183.78	.00	6273.00	.00	.00	.00	4880.00	5120.00	.00
	1.169	1213.29	.00	1214.25	183.78	.00	6273.00	.00	.00	4880.00	4880.00	5120.00	5120.00
	1.169	1212.64	.00	1213.45	178.34	.00	4916.00	.00	.00	.00	4880.00	5120.00	.00
	1.169	1211.49	.00	1212.04	166.41	.00	2876.00	.00	.00	.00	4880.00	5120.00	.00
*	1.191	1216.02	.00	1217.67	197.50	.00	6273.00	.00	.00	.00	4890.00	5120.00	.00
*	1.191	1216.02	.00	1217.67	197.54	.00	6273.00	.00	.00	4890.00	4890.00	5120.00	5120.00
*	1.191	1215.55	.00	1216.95	193.62	.00	4916.00	.00	.00	.00	4890.00	5120.00	.00
*	1.191	1214.67	.00	1215.72	186.50	.00	2876.00	.00	.00	.00	4890.00	5120.00	.00
*	1.213	1217.60	.00	1217.89	226.47	.00	6273.00	.00	.00	.00	4880.00	5122.00	.00
	1.213	1217.60	-.01	1217.89	226.37	.00	6273.00	.00	.00	4880.00	4880.00	5122.00	5122.00
*	1.213	1216.93	.00	1217.15	222.06	.00	4916.00	.00	.00	.00	4880.00	5122.00	.00
	1.213	1215.76	.00	1215.87	214.42	.00	2876.00	.00	.00	.00	4880.00	5122.00	.00
*	1.251	1222.81	.00	1224.36	202.45	.00	6273.00	.00	.00	.00	4870.00	5130.00	.00
*	1.251	1222.80	-.01	1224.36	202.40	.00	6273.00	.00	.00	4870.00	4870.00	5130.00	5130.00
*	1.251	1222.32	.00	1223.66	198.57	.00	4916.00	.00	.00	.00	4870.00	5130.00	.00
*	1.251	1221.49	.00	1222.44	191.91	.00	2876.00	.00	.00	.00	4870.00	5130.00	.00
*	1.286	1234.89	.00	1236.33	230.04	.00	6273.00	.00	.00	.00	4860.00	5121.00	.00
*	1.286	1234.89	.00	1236.33	230.05	.00	6273.00	.00	.00	4860.00	4860.00	5121.00	5121.00
*	1.286	1234.43	.00	1235.68	223.34	.00	4916.00	.00	.00	.00	4860.00	5121.00	.00
*	1.286	1233.62	.00	1234.55	205.69	.00	2876.00	.00	.00	.00	4860.00	5121.00	.00
	1.307	1236.70	.00	1237.82	228.32	1.49	6267.00	4.51	.00	.00	4885.00	5100.00	.00
	1.307	1236.70	.00	1237.83	215.00	.00	6273.00	.00	.01	4885.00	4885.00	5100.00	5100.00
	1.307	1236.27	.00	1237.18	220.31	.11	4915.55	.34	.00	.00	4885.00	5100.00	.00
	1.307	1235.47	.00	1236.05	210.99	.00	2876.00	.00	.00	.00	4885.00	5100.00	.00

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	SECNO	CWSEL	DIFKWS	SG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.381	1239.19	.00	1239.76	216.92	.00	6273.00	.00	.00	.00	4875.00	5100.00	.00
	1.381	1239.36	.16	1239.89	218.55	.00	6273.00	.00	.00	4875.00	4875.00	5100.00	5100.00
	1.381	1238.70	.00	1239.13	211.36	.00	4916.00	.00	.00	.00	4875.00	5100.00	.00
	1.381	1237.51	.00	1237.79	200.12	.00	2876.00	.00	.00	.00	4875.00	5100.00	.00
	1.479	1240.96	.00	1241.57	220.30	3.24	6269.76	.00	.00	.00	4882.00	5110.00	.00
	1.479	1241.00	.04	1241.60	212.96	.00	6273.00	.00	.00	4882.00	4882.00	5110.00	5110.00
	1.479	1240.30	.00	1240.80	211.75	.14	4915.86	.00	.00	.00	4882.00	5110.00	.00
	1.479	1239.03	.00	1239.38	199.21	.00	2876.00	.00	.00	.00	4882.00	5110.00	.00
	1.507	1243.00	.00	1243.60	211.51	.00	6273.00	.00	.00	.00	4870.00	5110.00	.00

	1.593	1243.10	.01	1243.69	211.57	.00	6273.00	.00	.00	4870.00	4870.00	5118.00	5118.00
	1.593	1242.40	.00	1242.90	206.03	.00	4916.00	.00	.00	.00	4870.00	5118.00	.00
	1.593	1241.17	.00	1241.50	196.25	.00	2876.00	.00	.00	.00	4870.00	5118.00	.00
	1.708	1245.39	.00	1246.13	202.94	.00	6273.00	.00	.00	.00	4882.00	5110.00	.00
	1.708	1245.39	.00	1246.13	202.94	.00	6273.00	.00	.00	4882.00	4882.00	5110.00	5110.00
	1.708	1244.71	.00	1245.33	197.85	.00	4916.00	.00	.00	.00	4882.00	5110.00	.00
	1.708	1243.51	.00	1243.94	188.93	.00	2876.00	.00	.00	.00	4882.00	5110.00	.00
	1.788	1247.52	.00	1248.35	205.82	.00	6273.00	.00	.00	.00	4880.00	5104.00	.00
	1.788	1247.52	.00	1248.35	205.83	.00	6273.00	.00	.00	4880.00	4880.00	5104.00	5104.00
	1.788	1246.89	.00	1247.59	201.20	.00	4916.00	.00	.00	.00	4880.00	5104.00	.00
	1.788	1245.80	.00	1246.28	193.19	.00	2876.00	.00	.00	.00	4880.00	5104.00	.00
	1.858	1249.50	.00	1250.13	216.46	.00	6273.00	.00	.00	.00	4882.00	5155.00	.00
	1.858	1249.50	.00	1250.13	216.46	.00	6273.00	.00	.00	4882.00	4882.00	5155.00	5155.00
	1.858	1248.85	.00	1249.38	210.61	.00	4916.00	.00	.00	.00	4882.00	5155.00	.00
	1.858	1247.70	.00	1248.05	200.27	.00	2876.00	.00	.00	.00	4882.00	5155.00	.00
*	1.949	1253.64	.00	1254.55	188.59	.00	6273.00	.00	.00	.00	4900.00	5104.00	.00
	1.949	1252.46	-1.17	1254.08	159.22	.00	6273.00	.00	.00	4900.00	4900.00	5104.00	5104.00
*	1.949	1252.87	.00	1253.69	169.35	.00	4916.00	.00	.00	.00	4900.00	5104.00	.00
*	1.949	1251.56	.00	1252.12	142.90	.00	2876.00	.00	.00	.00	4900.00	5104.00	.00
*	2.034	1257.71	.00	1259.38	223.33	.00	4219.12	2053.88	.00	.00	4963.00	5020.00	.00
	2.034	1258.61	.90	1259.77	180.00	.00	3999.13	2273.87	180.00	4970.00	4963.00	5020.00	5150.00
*	2.034	1257.24	.00	1258.65	216.44	.00	3533.77	1382.22	.00	.00	4963.00	5020.00	.00
*	2.034	1256.06	.00	1257.29	199.05	.00	2502.77	373.23	.00	.00	4963.00	5020.00	.00
*	2.118	1261.62	.00	1262.17	401.23	.00	3838.46	2434.54	.00	.00	4940.00	5040.00	.00
	2.118	1262.14	.51	1262.91	200.00	.00	4589.31	1683.69	200.00	4945.00	4940.00	5040.00	5145.00
*	2.118	1260.99	.00	1261.54	386.81	.00	3319.98	1596.02	.00	.00	4940.00	5040.00	.00
	2.118	1259.75	.00	1260.33	294.02	.00	2418.43	457.57	.00	.00	4940.00	5040.00	.00
	2.208	1263.82	.00	1264.23	313.23	2499.42	3119.77	403.81	.00	.00	4969.00	5030.00	.00
	2.208	1264.42	.60	1264.81	215.00	2671.62	3151.89	199.49	215.00	4835.00	4969.00	5030.00	5050.00
	2.208	1263.19	.00	1263.54	290.57	1930.48	2579.78	236.74	.00	.00	4969.00	5030.00	.00
	2.208	1261.94	.00	1262.19	246.34	1068.71	1708.63	57.66	.00	.00	4969.00	5030.00	.00

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	SECNO	CWSEL	DIFKWS	SG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	2.310	1265.92	.00	1266.61	365.07	1894.14	3540.35	588.50	.00	.00	4970.00	5030.00	.00
	2.310	1266.15	.23	1267.10	200.00	1688.89	4041.32	292.80	200.00	4850.00	4970.00	5030.00	5050.00
	2.310	1265.19	.00	1265.92	343.39	1225.98	3143.79	377.23	.00	.00	4970.00	5030.00	.00
*	2.310	1264.53	.00	1264.99	323.97	543.65	2125.14	166.20	.00	.00	4970.00	5030.00	.00
	2.395	1268.29	.00	1268.87	354.45	1165.86	4113.85	743.29	.00	.00	4967.00	5050.00	.00
	2.395	1268.79	.49	1269.37	220.00	1107.94	4294.22	620.83	220.00	4880.00	4967.00	5050.00	5100.00
	2.395	1267.73	.00	1268.23	332.08	906.02	3451.99	488.99	.00	.00	4967.00	5050.00	.00
	2.395	1266.46	.00	1266.89	271.80	275.55	2403.88	155.57	.00	.00	4967.00	5050.00	.00
	2.486	1270.66	.00	1271.18	428.63	358.06	4813.52	831.42	.00	.00	4925.00	5070.00	.00
	2.486	1270.94	.28	1271.70	185.00	203.10	5686.46	133.45	185.00	4900.00	4925.00	5070.00	5085.00
	2.486	1270.03	.00	1270.55	406.59	172.15	4068.42	506.43	.00	.00	4925.00	5070.00	.00
	2.486	1268.91	.00	1269.34	299.57	21.39	2697.16	116.45	.00	.00	4925.00	5070.00	.00
	2.588	1273.77	.00	1274.80	404.33	569.70	4349.85	1103.44	.00	.00	4980.00	5050.00	.00
	2.588	1274.27	.50	1275.28	210.00	666.99	4523.39	832.62	210.00	4895.00	4980.00	5050.00	5105.00
	2.588	1273.27	.00	1274.19	345.88	315.23	3685.13	746.64	.00	.00	4980.00	5050.00	.00
	2.588	1272.23	.00	1272.93	226.01	71.73	2519.07	244.21	.00	.00	4980.00	5050.00	.00
	2.681	1277.17	.00	1277.66	271.73	241.01	[illegible]	[illegible]	.00	.00	4997.00	[illegible]	.00

	2.691	1277.42	.25	1277.98	190.00	59.05	5678.22	285.73	190.00	4975.00	4983.00	5129.00	5165.00
	2.691	1276.52	.00	1276.95	330.14	124.74	4356.81	265.46	.00	.00	4983.00	5129.00	.00
	2.691	1275.22	.00	1275.55	238.19	16.50	2783.07	35.43	.00	.00	4983.00	5129.00	.00
	2.774	1279.27	.00	1280.18	547.32	31.19	4631.33	1360.48	.00	.00	4953.00	5050.00	.00
	2.774	1279.48	.21	1280.64	180.00	8.67	5136.49	877.83	180.00	4950.00	4953.00	5050.00	5130.00
	2.774	1279.02	.00	1279.73	511.06	15.45	3822.49	909.06	.00	.00	4953.00	5050.00	.00
*	2.774	1277.78	.00	1278.47	193.33	.00	2681.24	153.76	.00	.00	4953.00	5050.00	.00
*	2.867	1282.03	.00	1282.50	613.87	1071.99	4885.32	65.69	.00	.00	4960.00	5117.00	.00
	2.867	1282.89	.85	1283.40	240.00	249.44	5616.31	157.25	240.00	4920.00	4960.00	5117.00	5160.00
	2.867	1281.78	.00	1282.14	584.26	701.62	4004.97	40.21	.00	.00	4960.00	5117.00	.00
	2.867	1280.77	.00	1281.07	434.18	95.13	2735.40	4.47	.00	.00	4960.00	5117.00	.00
	2.937	1283.95	.00	1284.30	614.53	1104.57	2517.41	2401.02	.00	.00	4960.00	5025.00	.00
	2.937	1284.56	.61	1284.99	330.00	749.33	2884.07	2389.60	330.00	4860.00	4960.00	5025.00	5190.00
	2.937	1283.43	.00	1283.78	589.49	691.00	2223.05	1832.87	.00	.00	4960.00	5025.00	.00
	2.937	1282.48	.00	1282.84	543.01	151.72	1722.35	960.93	.00	.00	4960.00	5025.00	.00
	3.011	1285.85	.00	1286.14	563.10	134.21	1907.74	3981.05	.00	.00	4968.00	5021.00	.00
	3.011	1286.43	.59	1286.83	350.00	186.63	2308.60	3527.77	350.00	4930.00	4968.00	5021.00	5280.00
	3.011	1285.39	.00	1285.65	530.15	61.27	1637.41	3048.33	.00	.00	4968.00	5021.00	.00
	3.011	1284.56	.00	1284.76	471.44	5.17	1183.43	1646.40	.00	.00	4968.00	5021.00	.00
	3.140	1288.69	.00	1289.08	774.93	321.80	2907.25	2793.95	.00	.00	4960.00	5030.00	.00
	3.140	1289.48	.79	1290.10	365.00	621.63	3731.94	1669.43	365.00	4870.00	4960.00	5030.00	5235.00
	3.140	1288.24	.00	1288.65	749.49	196.47	2626.19	1924.34	.00	.00	4960.00	5030.00	.00
	3.140	1287.41	.00	1287.87	661.99	55.45	2123.57	653.97	.00	.00	4960.00	5030.00	.00

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	SECND	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	3.247	1292.55	.00	1292.99	677.51	979.13	3368.31	1675.56	.00	.00	4960.00	5020.00	.00
	3.247	1292.31	-.24	1293.04	300.00	745.22	3946.03	1331.75	300.00	4900.00	4960.00	5020.00	5200.00
	3.247	1291.18	.00	1292.05	434.61	577.37	3532.26	637.37	.00	.00	4960.00	5020.00	.00
	3.247	1290.29	.00	1290.91	278.24	206.37	2442.78	185.85	.00	.00	4960.00	5020.00	.00
	3.354	1294.59	.00	1295.06	550.31	1491.93	3988.17	542.90	.00	.00	4940.00	5035.00	.00
	3.354	1295.04	.45	1295.61	310.00	910.07	4475.10	637.83	310.00	4830.00	4940.00	5035.00	5140.00
	3.354	1294.29	.00	1294.67	520.00	1100.18	3305.61	341.21	.00	.00	4940.00	5035.00	.00
	3.354	1293.04	.00	1293.41	386.34	368.78	2424.88	41.34	.00	.00	4940.00	5035.00	.00
	3.465	1297.42	.00	1297.93	751.37	2476.15	3222.25	324.60	.00	.00	4960.00	5030.00	.00
	3.465	1297.93	.51	1298.71	320.00	1647.61	3938.31	437.08	320.00	4750.00	4960.00	5030.00	5070.00
	3.465	1296.85	.00	1297.44	692.32	1552.00	2973.78	217.42	.00	.00	4960.00	5030.00	.00
	3.465	1295.90	.00	1296.51	353.31	499.37	2258.97	76.66	.00	.00	4960.00	5030.00	.00
	3.563	1300.15	.00	1300.78	738.91	1596.40	3459.19	967.42	.00	.00	4960.00	5018.00	.00
	3.563	1301.01	.86	1302.12	304.18	1059.29	4527.42	436.29	340.00	4700.00	4960.00	5018.00	5040.00
	3.563	1299.77	.00	1300.36	671.82	1036.34	3028.70	681.96	.00	.00	4960.00	5018.00	.00
	3.563	1298.87	.00	1299.42	489.19	263.80	2290.64	280.55	.00	.00	4960.00	5018.00	.00
	3.656	1302.85	.00	1303.23	786.95	1825.47	3133.07	1064.46	.00	.00	4942.00	5020.00	.00
	3.656	1303.83	.98	1304.11	450.00	2175.88	3061.31	785.82	450.00	4650.00	4942.00	5020.00	5100.00
	3.656	1302.37	.00	1302.78	751.43	1152.89	2840.30	753.81	.00	.00	4942.00	5020.00	.00
	3.656	1301.42	.00	1301.89	558.82	291.86	2251.90	291.24	.00	.00	4942.00	5020.00	.00
	3.737	1305.08	.00	1305.83	850.78	1632.87	3164.22	1225.91	.00	.00	4970.00	5020.00	.00
*	3.737	1305.31	.23	1306.60	350.00	1035.62	3876.18	1111.20	350.00	4750.00	4970.00	5020.00	5100.00
*	3.737	1304.76	.00	1305.49	811.71	1001.90	2825.45	919.64	.00	.00	4970.00	5020.00	.00
	3.737	1303.92	.00	1304.75	514.38	166.04	2287.64	381.32	.00	.00	4970.00	5020.00	.00
	3.846	1307.75	.00	1308.23	895.20	1296.51	3443.45	1343.05	.00	.00	4970.00	5025.00	.00

3.816	1308.59	.84	1309.16	380.00	1209.11	3938.73	875.16	380.00	4720.00	4970.00	5035.00	5100.00
3.816	1307.31	.00	1307.81	901.59	671.40	3156.22	919.38	.00	.00	4970.00	5035.00	.00
3.816	1306.45	.00	1306.90	532.33	81.90	2365.31	387.78	.00	.00	4970.00	5035.00	.00
3.879	1309.05	.00	1309.59	370.87	243.52	5219.83	539.66	.00	.00	4960.00	5100.00	.00
3.879	1309.80	.75	1310.23	286.77	362.15	5246.54	414.32	300.00	4850.00	4960.00	5100.00	5150.00
3.879	1308.63	.00	1309.06	338.0[illegible]	147.09	4253.16	346.74	.00	.00	4960.00	5100.00	.00
3.879	1307.66	.00	1307.93	283.27	34.20	2718.96	81.84	.00	.00	4960.00	5100.00	.00
3.945	1310.38	.00	1311.20	541.69	1166.20	4854.46	2.34	.00	.00	4970.00	5090.00	.00
3.945	1310.65	.26	1311.68	240.00	586.88	5436.12	.00	240.00	4850.00	4970.00	5090.00	5090.00
3.945	1309.80	.00	1310.60	467.00	648.23	4098.77	.00	.00	.00	4970.00	5090.00	.00
3.945	1308.61	.00	1309.35	313.89	72.35	2762.65	.00	.00	.00	4970.00	5090.00	.00
4.015	1311.77	.00	1312.54	127.14	.00	5087.00	.00	.00	.00	4957.00	5099.00	.00
4.015	1312.25	.48	1312.90	130.63	.00	5087.00	.00	142.00	4957.00	4957.00	5099.00	5099.00
4.015	1311.24	.00	1311.90	122.88	.00	4279.00	.00	.00	.00	4957.00	5099.00	.00
4.015	1310.09	.00	1310.48	113.57	.00	2613.00	.00	.00	.00	4957.00	5099.00	.00

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
4.053	1312.67	.00	1313.09	359.06	16.09	5069.55	1.37	.00	.00	4950.00	5197.00	.00
4.053	1312.97	.30	1313.34	247.00	.00	5087.00	.00	247.00	4950.00	4950.00	5197.00	5197.00
4.053	1311.92	.00	1312.37	164.85	.00	4279.00	.00	.00	.00	4950.00	5197.00	.00
4.053	1310.54	.00	1310.85	144.66	.00	2613.00	.00	.00	.00	4950.00	5197.00	.00
4.148	1313.32	.00	1313.38	900.88	306.92	4780.08	.00	.00	.00	4953.00	5370.00	.00
4.148	1313.54	.22	1313.61	404.87	.00	5087.00	.00	417.00	4953.00	4953.00	5370.00	5370.00
4.148	1312.61	.00	1312.67	770.06	162.83	4116.17	.00	.00	.00	4953.00	5370.00	.00
4.148	1311.13	.00	1311.17	538.51	16.75	2596.25	.00	.00	.00	4953.00	5370.00	.00
4.254	1313.44	.00	1313.68	453.59	53.68	5033.32	.00	.00	.00	4960.00	5303.00	.00
4.254	1313.67	.23	1313.89	321.68	.00	5087.00	.00	343.00	4960.00	4960.00	5303.00	5303.00
4.254	1312.77	.00	1313.02	388.87	11.53	4267.47	.00	.00	.00	4960.00	5303.00	.00
4.254	1311.34	.00	1311.62	249.07	.00	2613.00	.00	.00	.00	4960.00	5303.00	.00
4.360	1313.93	.00	1313.99	1121.13	868.97	4218.03	.00	.00	.00	4866.00	5234.00	.00
4.360	1314.14	.21	1314.24	348.82	.00	5087.00	.00	368.00	4866.00	4866.00	5234.00	5234.00
4.360	1313.33	.00	1313.39	1006.69	589.30	3689.70	.00	.00	.00	4866.00	5234.00	.00
4.360	1312.03	.00	1312.09	761.00	152.48	2460.52	.00	.00	.00	4866.00	5234.00	.00
4.457	1314.07	.00	1314.14	1220.69	759.80	4327.20	.00	.00	.00	4795.00	5185.00	.00
4.457	1314.33	.26	1314.42	352.55	.00	5087.00	.00	390.00	4795.00	4795.00	5185.00	5185.00
4.457	1313.48	.00	1313.55	1055.82	492.71	3786.29	.00	.00	.00	4795.00	5185.00	.00
4.457	1312.21	.00	1312.27	673.93	129.11	2483.89	.00	.00	.00	4795.00	5185.00	.00
4.554	1314.21	.00	1314.30	801.38	855.54	4231.46	.00	.00	.00	4890.00	5162.00	.00
4.554	1314.49	.28	1314.64	254.92	.00	5087.00	.00	272.00	4890.00	4890.00	5162.00	5162.00
4.554	1313.63	.00	1313.72	720.84	598.85	3688.15	.00	.00	.00	4890.00	5162.00	.00
4.554	1312.38	.00	1312.45	598.86	188.12	2424.88	.00	.00	.00	4890.00	5162.00	.00

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .107 PROFILE= 1 INTERPOLATED XSECTIONS USED
CAUTION SECNO= .107 PROFILE= 2 CRITICAL DEPTH ASSUMED

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CAUTION  SECNO=     .107  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .107  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=     .107  PROFILE= 3  INTERPOLATED XSECTIONS USED
CAUTION  SECNO=     .107  PROFILE= 4  INTERPOLATED XSECTIONS USED

CAUTION  SECNO=     .350  PROFILE= 1  INTERPOLATED XSECTIONS USED

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CAUTION  SECNO=    1.286  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION  SECNO=    2.691  PROFILE= 1  INTERPOLATED XSECTIONS USED
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CAUTION  SECNO=     3.737  PROFILE= 3  MINIMUM SPECIFIC ENERGY

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 05/03/88    15:30:29                                                                                    PAGE  120
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FLOODWAY DATA, MCMICKEN DAM OUTLET WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	1010.	2413.	2.7	1176.9	1176.6	.3
.107	807.	1005.	6.5	1181.1	1181.7	-.6
.159	684.	1519.	4.3	1183.9	1183.5	.4
.238	487.	1200.	5.4	1186.1	1186.4	-.3
.350	365.	893.	7.3	1190.8	1190.9	-.1
.437	459.	1220.	5.3	1194.7	1194.6	.1
.527	518.	994.	6.6	1198.2	1198.2	.0
.579	478.	1164.	5.6	1200.5	1200.1	.4
.647	435.	1170.	5.6	1202.6	1202.7	-.1
.746	181.	825.	7.9	1204.8	1204.7	.1
.833	210.	1028.	6.3	1207.3	1207.3	.0
.946	201.	948.	6.9	1209.5	1209.5	.0
1.058	209.	962.	6.5	1212.1	1212.1	.0
1.169	184.	797.	7.9	1213.3	1213.3	.0
1.191	198.	610.	10.3	1216.0	1216.0	.0
1.213	226.	1448.	4.3	1217.6	1217.6	.0
1.251	202.	625.	10.0	1222.8	1222.8	.0
1.286	230.	651.	9.6	1234.9	1234.9	.0
1.307	215.	736.	8.5	1236.7	1236.7	.0
1.381	219.	1068.	5.9	1239.4	1239.2	.2
1.479	213.	1012.	6.2	1241.0	1241.0	.0
1.593	212.	1018.	6.2	1243.1	1243.1	.0
1.708	203.	913.	6.9	1245.4	1245.4	.0
1.788	206.	859.	7.3	1247.5	1247.5	.0
1.858	216.	979.	6.4	1249.5	1249.5	.0
1.949	159.	614.	10.2	1252.5	1253.6	-1.1
2.034	180.	877.	7.2	1258.6	1257.7	.9
2.118	200.	991.	6.3	1262.1	1261.6	.5
2.208	215.	1360.	4.4	1264.4	1263.8	.6
2.310	200.	941.	6.4	1266.1	1265.9	.2
2.395	220.	1161.	5.2	1268.8	1268.3	.5
2.486	185.	903.	6.7	1271.0	1270.7	.3
2.588	210.	908.	6.6	1274.3	1273.8	.5
2.691	190.	1061.	5.7	1277.5	1277.2	.3
2.774	180.	782.	7.7	1279.5	1279.3	.2
2.867	240.	1132.	5.3	1282.9	1282.0	.9
2.937	330.	1377.	4.4	1284.5	1283.9	.6
3.011	350.	1410.	4.3	1286.4	1285.8	.6
3.140	365.	1266.	4.8	1289.5	1288.7	.8
3.267	300.	1161.	5.2	1292.6	1292.5	.1

3.354	310.	1234.	4.9	1295.1	1294.6	.5
3.465	320.	1113.	5.4	1297.9	1297.4	.5

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FLOODWAY DATA, MCMICKEN DAM OUTLET WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.563	340.	956.	6.3	1301.0	1300.1	.9
3.656	450.	1798.	3.4	1303.8	1302.8	1.0
3.737	350.	928.	6.5	1305.3	1305.1	.2
3.816	380.	1359.	4.4	1308.5	1307.7	.8
3.879	287.	1292.	4.7	1309.8	1309.1	.7
3.945	240.	910.	6.6	1310.7	1310.4	.3
4.015	131.	785.	6.5	1312.3	1311.8	.5
4.053	247.	1050.	4.8	1313.0	1312.7	.3
4.148	405.	2466.	2.1	1313.5	1313.3	.2
4.254	322.	1336.	3.6	1313.6	1313.4	.2
4.360	349.	2000.	2.5	1314.1	1313.9	.2
4.457	353.	2029.	2.5	1314.4	1314.1	.3
4.554	255.	1650.	3.1	1314.5	1314.2	.3

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FLOODWAY DATA, MCMICKEN DAM OUTLET WASH
PROFILE NO. 3

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	1002.	1427.	3.6	1176.1	1176.6	-.5
.107	807.	1043.	4.9	1181.2	1181.7	-.5
.159	676.	1219.	4.2	1183.5	1183.5	.0
.238	483.	1075.	4.7	1185.8	1186.4	-.6
.350	767.	735.	6.9	1190.3	1190.9	-.6
.437	457.	1068.	4.8	1194.5	1194.6	-.1
.527	464.	791.	6.4	1197.7	1198.2	-.5
.579	444.	832.	6.1	1199.9	1200.1	-.2
.647	431.	1053.	4.8	1202.3	1202.7	-.4
.746	175.	703.	7.2	1204.3	1204.7	-.4
.833	203.	872.	5.8	1206.6	1207.3	-.7
.946	194.	805.	6.3	1208.9	1209.5	-.6
1.058	204.	816.	6.0	1211.5	1212.1	-.6
1.169	178.	679.	7.2	1212.7	1213.3	-.6
1.191	194.	516.	9.5	1215.6	1216.0	-.4
1.213	222.	1299.	3.8	1217.0	1217.6	-.6
1.251	199.	529.	9.3	1222.4	1222.8	-.4
1.286	223.	548.	9.0	1234.5	1234.9	-.4
1.307	220.	643.	7.6	1236.4	1236.7	-.3
1.381	212.	926.	5.3	1238.8	1239.2	-.4
1.479	212.	864.	5.7	1240.4	1241.0	-.6
1.593	206.	873.	5.6	1242.5	1243.1	-.6
1.709	199.	777.	6.3	1244.8	1245.4	-.5

1.788	201.	731.	6.7	1247.0	1247.5	-.5
1.858	211.	840.	5.9	1249.0	1249.5	-.5
1.949	169.	680.	7.2	1252.9	1253.6	-.7
2.034	216.	668.	7.4	1257.3	1257.7	-.4
2.118	387.	1042.	4.7	1261.1	1261.6	-.5
2.208	291.	1189.	4.0	1263.3	1263.8	-.5
2.310	343.	948.	5.0	1265.3	1265.9	-.6
2.395	332.	1057.	4.5	1267.8	1268.3	-.5
2.486	407.	938.	4.8	1270.2	1270.7	-.5
2.588	346.	815.	5.8	1273.4	1273.8	-.4
2.691	330.	1031.	4.6	1276.7	1277.2	-.5
2.774	511.	943.	5.0	1279.1	1279.3	-.2
2.867	584.	1261.	3.8	1281.8	1282.0	-.2
2.937	589.	1362.	3.5	1283.5	1283.9	-.4
3.011	530.	1425.	3.3	1285.4	1285.8	-.4
3.140	749.	1434.	3.3	1288.4	1288.7	-.3
3.247	435.	898.	5.3	1291.2	1292.5	-1.3
3.354	520.	1311.	3.6	1294.4	1294.6	-.2
3.465	692.	1153.	4.1	1296.9	1297.4	-.5

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FLOODWAY DATA, MCMICKEN DAM OUTLET WASH
PROFILE NO. 3

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
3.563	794.	1236.	3.8	1299.8	1300.1	-.3
3.656	751.	1417.	3.4	1302.4	1302.8	-.4
3.737	812.	1170.	4.1	1304.9	1305.1	-.2
3.816	902.	1385.	3.4	1307.4	1307.7	-.3
3.879	338.	1064.	4.5	1308.8	1309.1	-.3
3.945	467.	965.	4.9	1309.9	1310.4	-.5
4.015	123.	657.	6.5	1311.4	1311.8	-.4
4.053	165.	797.	5.4	1312.0	1312.7	-.7
4.148	770.	2527.	1.7	1312.7	1313.3	-.6
4.254	389.	1074.	4.0	1312.8	1313.4	-.6
4.360	1007.	2844.	1.5	1313.4	1313.9	-.5
4.457	1056.	2732.	1.6	1313.6	1314.1	-.5
4.554	721.	2387.	1.8	1313.7	1314.2	-.5

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FLOODWAY DATA, MCMICKEN DAM OUTLET WASH
PROFILE NO. 4

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.000	631.	681.	4.3	1175.1	1176.6	-1.5
.107	804.	756.	3.9	1180.8	1181.7	-.9
.159	667.	881.	3.3	1183.0	1183.5	-.5
.238	472.	778.	3.7	1185.2	1186.4	-1.2
.350	311.	494.	5.9	1189.6	1190.9	-1.3
[illegible]	[illegible]	777.	[illegible]	[illegible]	[illegible]	[illegible]

.527	226.	525.	5.6	1196.6	1198.2	-1.6
.579	343.	452.	6.5	1198.9	1200.1	-1.2
.647	234.	773.	3.8	1201.1	1202.7	-1.6
.746	161.	449.	6.5	1202.7	1204.7	-2.0
.833	192.	617.	4.7	1205.3	1207.3	-2.0
.946	182.	559.	5.2	1207.6	1209.5	-1.9
1.058	196.	570.	5.0	1210.3	1212.1	-1.8
1.169	166.	481.	6.0	1211.6	1213.3	-1.7
1.191	187.	351.	8.2	1214.8	1216.0	-1.2
1.213	214.	1043.	2.8	1215.9	1217.6	-1.7
1.251	192.	367.	7.8	1221.6	1222.8	-1.2
1.286	206.	373.	7.7	1233.7	1234.9	-1.2
1.307	211.	471.	6.1	1235.6	1236.7	-1.1
1.381	200.	682.	4.2	1237.6	1239.2	-1.6
1.479	199.	604.	4.8	1239.2	1241.0	-1.8
1.593	196.	625.	4.6	1241.3	1243.1	-1.8
1.708	189.	546.	5.3	1243.6	1245.4	-1.8
1.788	193.	516.	5.6	1245.9	1247.5	-1.6
1.858	200.	604.	4.8	1247.8	1249.5	-1.7
1.949	143.	478.	6.0	1251.6	1253.6	-2.0
2.034	199.	422.	6.8	1256.1	1257.7	-1.6
2.118	294.	593.	4.6	1259.8	1261.6	-1.9
2.208	246.	856.	3.3	1262.0	1263.8	-1.8
2.310	324.	730.	3.9	1264.6	1265.9	-1.3
2.395	272.	674.	4.2	1266.6	1268.3	-1.7
2.486	300.	599.	4.7	1269.1	1270.7	-1.6
2.588	226.	519.	5.5	1272.4	1273.8	-1.4
2.691	238.	661.	4.3	1275.4	1277.2	-1.8
2.774	193.	479.	5.9	1277.9	1279.3	-1.4
2.867	463.	739.	3.6	1280.8	1282.0	-1.2
2.937	543.	820.	3.5	1282.5	1283.9	-1.4
3.011	471.	1011.	2.6	1284.6	1285.8	-1.2
3.140	689.	823.	3.4	1287.5	1288.7	-1.2
3.247	278.	587.	4.6	1290.3	1292.5	-2.2
3.354	386.	741.	3.8	1293.2	1294.6	-1.4
3.465	422.	625.	4.5	1296.0	1297.4	-1.4

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FLOODWAY DATA, MCMICKEN DAM OUTLET WASH
PROFILE NO. 4

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.563	661.	714.	4.0	1298.9	1300.1	-1.2
3.656	559.	767.	3.7	1301.5	1302.8	-1.3
3.737	691.	585.	4.8	1304.0	1305.1	-1.1
3.816	739.	741.	3.9	1306.5	1307.7	-1.2
3.879	283.	758.	3.7	1307.8	1309.1	-1.3
3.945	349.	484.	5.9	1308.7	1310.4	-1.7
4.015	114.	521.	5.0	1310.2	1311.8	-1.6
4.053	145.	384.	4.5	1310.7	1312.7	-2.0
4.148	539.	1571.	1.7	1311.2	1313.3	-2.1
4.254	249.	619.	4.2	1311.4	1313.4	-2.0
4.360	761.	1692.	1.5	1312.1	1313.9	-1.8
4.457	674.	1635.	1.6	1312.3	1314.1	-1.8
4.554	599.	1558.	1.7	1312.5	1314.2	-1.7

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THIS RUN EXECUTED 05/03/88 15:38:10

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
*************************************************
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INPUT FILE: CAP1WEST

OUTPUT FILE: CAP1WEST.OUT

THIS RUN EXECUTED 05/05/88 18:24:03

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      WITTMANN AREA DRAINAGE MASTER STUDY.
T2      100-YEAR STORM EVENT.  1ST CONCRETE OVERCHUTE WEST OF GRAND AVENUE.
T3      CAP FLOODPLAIN-#1 WEST

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        0.        0.        0.   .005640      .00       .0     6162.  1338.000     .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

   -1.000     .000      .000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000    43.000     1.000    53.000    21.000    22.000    54.000    51.000     4.000     8.000


    42.000     5.000    26.000      .000      .000      .000      .000      .000      .000      .000


NC      .080      .090      .050      .100      .300      .000      .000      .000      .000      .000
X1      .000    13.000  4960.000  5020.000      .000      .000      .000      .000      .000      .000
GR   1343.000  3940.000  1340.000  4170.000  1337.000  4370.000  1336.000  4780.000  1336.000  4810.000
GR   1336.000  4960.000  1332.000  5000.000  1336.000  5020.000  1336.000  5065.000  1336.000  5150.000
GR   1338.000  5385.000  1340.000  5655.000  1340.500  5790.000      .000      .000      .000      .000

X1      .238    16.000  4980.000  5020.000  1200.000  1315.000  1255.000      .000      .000      .000
GR   1352.000  3740.000  1350.000  3890.000  1348.000  4110.000  1344.000  4465.000  1342.500  4770.000
GR   1340.000  4980.000  1339.000  5040.000  1340.000  5020.000  1342.000  5070.000  1340.000  5115.000
GR   1339.500  5130.000  1340.000  5155.000  1344.000  5285.000  1344.000  5355.000  1344.000  5420.000
GR   1348.000  5920.000      .000      .000      .000      .000      .000      .000      .000      .000

X1      .441    13.000  4960.000  5030.000  1075.000  1085.000  1075.000      .000      .000      .000
GR   1358.500  3300.000  1356.000  3515.000  1356.000  3635.000  1352.000  3810.000  1352.000  4130.000
GR   1351.000  4545.000  1350.000  4960.000  1348.000  5000.000  1350.000  5030.000  1349.000  5230.000
GR   1348.500  5715.000  1352.000  5850.000  1354.000  6150.000      .000      .000      .000      .000

NC      .070      .070      .050      .300      .500      .000      .000      .000      .000      .000
X1      .604    15.000  4960.000  5040.000   840.000   865.000   860.000      .000      .000      .000
X2   6125.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1360.000  3635.000  1358.000  3300.000  1360.000  3375.000  1360.000  3410.000  1356.000  3635.000
GR   1356.000  4070.000  1354.000  4550.000  1354.000  4810.000  1353.500  4960.000  1352.800  5000.000
GR   1353.500  5040.000  1353.000  5220.000  1354.000  5280.000  1356.000  5535.000  1356.500  5630.000
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NC	.035	.035	.035	.000	.000	.000	.000	.000	.000	.000
X1	.892	5.000	4916.000	5084.000	1000.000	1700.000	1520.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1367.500	1367.500	.000
GR	1372.000	4916.000	1360.300	4917.000	1360.300	5000.000	1360.300	5083.000	1372.000	5084.000
SB	1.250	1.600	2.600	.000	167.000	10.000	1570.000	.000	1360.500	1360.300
X1	.901	5.000	4916.000	5084.000	48.000	48.000	48.000	.000	.000	.000
X2	.000	.000	1.000	1370.500	1372.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1367.500	1367.500	.000
BT	2.000	4916.000	1372.000	1370.500	5084.000	1372.000	1370.500	.000	.000	.000
GR	1372.000	4916.000	1360.500	4917.000	1360.500	5000.000	1360.500	5083.000	1372.000	5084.000
NC	.065	.065	.035	.100	.300	.000	.000	.000	.000	.000
X1	.944	13.000	4855.000	5180.000	560.000	140.000	225.000	.000	.000	.000
GR	1365.500	3410.000	1364.000	3670.000	1361.200	4455.000	1364.000	4800.000	1368.000	4835.000
GR	1364.000	4855.000	1361.000	5000.000	1364.000	5165.000	1365.000	5180.000	1364.000	5200.000
GR	1363.000	5290.000	1364.000	5350.000	1368.000	5450.000	.000	.000	.000	.000
X1	.987	12.000	4770.000	5200.000	450.000	180.000	227.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	.000	.000	.000	15.000
GR	1367.000	3810.000	1364.500	4615.000	1364.000	4730.000	1362.500	4770.000	1364.000	4800.000
GR	1369.000	4825.000	1364.000	4880.000	1361.500	4960.000	1361.500	5000.000	1361.500	5195.000
GR	1364.000	5200.000	1368.000	5450.000	.000	.000	.000	.000	.000	.000
X1	1.129	15.000	4935.000	5060.000	730.000	750.000	750.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	.000	.000	.000	15.000
GR	1370.000	3840.000	1367.800	4380.000	1368.500	4720.000	1369.000	4890.000	1368.000	4935.000
GR	1364.000	4960.000	1363.800	5000.000	1364.000	5030.000	1368.000	5060.000	1368.000	5190.000
GR	1366.300	5260.000	1368.000	5380.000	1367.500	5430.000	1368.000	5450.000	1372.000	5925.000
X1	1.330	9.000	4910.000	5010.000	1075.000	1055.000	1060.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	.000	.000	.000	15.000
GR	1375.500	4250.000	1374.000	4760.000	1372.000	4910.000	1370.600	5000.000	1372.000	5010.000
GR	1374.000	5105.000	1375.000	5360.000	1374.000	5475.000	1375.500	5570.000	.000	.000
X1	1.519	11.000	4950.000	5100.000	1040.000	980.000	1000.000	.000	.000	.000
X2	5944.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1382.000	4735.000	1381.000	4900.000	1380.000	4950.000	1376.000	4990.000	1375.500	5000.000
GR	1376.000	5020.000	1380.000	5100.000	1381.000	5140.000	1381.500	5310.000	1380.500	5560.000
GR	1382.000	5700.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.671	11.000	4955.000	5050.000	830.000	765.000	805.000	.000	.000	.000
GR	1392.000	4140.000	1392.000	4260.000	1390.000	4400.000	1388.000	4635.000	1386.000	4810.000
GR	1384.000	4955.000	1382.000	5000.000	1384.000	5050.000	1387.000	5270.000	1388.000	5720.000
GR	1388.000	6165.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.845	10.000	4965.000	5030.000	950.000	860.000	915.000	.000	.000	.000
GR	1395.000	4410.000	1392.000	4810.000	1388.000	4965.000	1387.000	5000.000	1388.000	5030.000
GR	1392.000	5060.000	1393.000	5140.000	1392.000	5300.000	1393.000	5630.000	1395.000	6035.000

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X1	2.023	13.000	4975.000	5050.000	935.000	925.000	940.000	.000	.000	.000
GR	1400.000	3650.000	1399.000	3870.000	1399.000	4440.000	1397.000	4660.000	1396.000	4895.000
GR	1396.000	4950.000	1392.000	4975.000	1391.500	5000.000	1392.000	5020.000	1396.000	5050.000
GR	1400.000	5295.000	1400.000	5545.000	1401.000	5770.000	.000	.000	.000	.000
X1	2.254	13.000	4970.000	5030.000	880.000	950.000	1220.000	.000	.000	.000
GR	1408.000	3575.000	1409.000	3615.000	1408.000	3690.000	1406.000	4210.000	1404.000	4750.000
GR	1404.000	4850.000	1400.000	4970.000	1399.000	5000.000	1400.000	5030.000	1404.000	5040.000

X1	2.427	14.000	4975.000	5045.000	870.000	970.000	915.000	.000	.000	.000
GR	1412.000	3670.000	1412.500	3785.000	1412.000	3940.000	1410.000	4320.000	1409.000	4675.000
GR	1408.000	4860.000	1404.000	4890.000	1404.000	4910.000	1408.000	4930.000	1408.000	4975.000
GR	1403.800	5000.000	1408.000	5045.000	1412.000	5430.000	1414.000	6000.000	.000	.000
X1	2.584	9.000	4950.000	5050.000	825.000	800.000	830.000	.000	.000	.000
GR	1418.000	3840.000	1416.000	4020.000	1414.500	4550.000	1415.000	4785.000	1414.000	4950.000
GR	1413.500	5000.000	1414.000	5050.000	1416.000	5215.000	1418.000	5310.000	.000	.000
NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.776	14.000	4950.000	5060.000	930.000	960.000	1010.000	.000	.000	.000
GR	1424.000	4000.000	1420.000	4170.000	1420.000	4545.000	1421.500	4590.000	1420.000	4650.000
GR	1420.000	4840.000	1419.000	4950.000	1418.000	5000.000	1420.000	5060.000	1420.000	5275.000
GR	1424.000	5740.000	1424.000	5835.000	1424.000	6000.000	1424.000	6105.000	.000	.000
X1	2.955	9.000	4975.000	5015.000	970.000	860.000	950.000	.000	.000	.000
X2	6120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1428.000	4200.000	1429.500	4275.000	1428.000	4370.000	1427.000	4680.000	1424.000	4975.000
GR	1423.000	5000.000	1424.000	5015.000	1428.000	5270.000	1429.000	5380.000	.000	.000
X1	3.096	7.000	4970.000	5020.000	660.000	770.000	740.000	.000	.000	.000
GR	1433.000	4490.000	1432.000	4550.000	1428.000	4970.000	1427.000	5000.000	1428.000	5020.000
GR	1432.000	5300.000	1435.000	5730.000	.000	.000	.000	.000	.000	.000
X1	3.216	10.000	4950.000	5020.000	590.000	700.000	635.000	.000	.000	.000
GR	1435.500	4555.000	1432.000	4790.000	1432.000	4950.000	1432.000	4990.000	1430.000	5000.000
GR	1432.000	5020.000	1432.000	5055.000	1431.000	5080.000	1432.000	5100.000	1436.000	5255.000
NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	3.337	12.000	4960.000	5040.000	775.000	500.000	640.000	.000	.000	.000
X2	6129.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1439.000	4400.000	1439.000	4610.000	1436.000	4750.000	1434.000	4820.000	1434.000	4960.000
GR	1433.000	5000.000	1434.000	5040.000	1436.000	5270.000	1437.000	5350.000	1436.000	5400.000
GR	1436.000	5560.000	1440.000	5770.000	.000	.000	.000	.000	.000	.000
X1	3.494	11.000	4980.000	5020.000	785.000	825.000	830.000	.000	.000	.000
GR	1444.000	4450.000	1440.000	4770.000	1441.000	4880.000	1440.000	4980.000	1436.000	5000.000
GR	1440.000	5020.000	1440.000	5050.000	1440.000	5075.000	1442.000	5240.000	1444.000	5565.000
GR	1446.000	5690.000	.000	.000	.000	.000	.000	.000	.000	.000

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X1	3.656	8.000	4980.000	5030.000	845.000	835.000	855.000	.000	.000	.000
GR	1449.000	4540.000	1448.000	4615.000	1445.000	4825.000	1444.000	4990.000	1441.000	5000.000
GR	1444.000	5030.000	1448.000	5390.000	1449.000	5440.000	.000	.000	.000	.000
X1	3.795	8.000	4975.000	5040.000	735.000	750.000	735.000	.000	.000	.000
GR	1454.000	4500.000	1452.000	4665.000	1448.000	4975.000	1444.000	5000.000	1448.000	5040.000
GR	1452.000	5205.000	1452.000	5370.000	1453.000	5460.000	.000	.000	.000	.000
X1	3.969	7.000	4980.000	5030.000	955.000	945.000	915.000	.000	.000	.000
GR	1459.000	4750.000	1456.000	4810.000	1452.000	4980.000	1449.500	5000.000	1452.000	5030.000
GR	1456.000	5150.000	1458.000	5460.000	.000	.000	.000	.000	.000	.000
X1	4.115	10.000	4965.000	5025.000	690.000	730.000	770.000	.000	.000	.000
GR	1466.000	4610.000	1464.000	4780.000	1460.000	4920.000	1456.000	4965.000	1452.500	5000.000
GR	1456.000	5025.000	1460.000	5520.000	1460.000	5700.000	1462.000	5850.000	1463.500	6150.000
X1	4.270	12.000	4960.000	5035.000	835.000	730.000	870.000	.000	.000	.000
X2	6243.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1472.500	4045.000	1472.000	4140.000	1468.000	4355.000	1464.000	4665.000	1464.000	4860.000
GR	1460.000	4960.000	1458.000	5000.000	1460.000	5035.000	1464.000	5110.000	1464.000	5165.000

GR	1466.000	3320.000	1468.000	3533.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.040	.000	.000	.000	.000	.000	.000	.000
X1	4.431	21.000	4980.000	5050.000	825.000	730.000	810.000	.000	.000	.000
GR	1484.000	3715.000	1480.000	3900.000	1476.000	4020.000	1476.000	4130.000	1477.000	4220.000
GR	1476.000	4380.000	1472.000	4520.000	1468.000	4770.000	1468.000	4820.000	1470.000	4870.000
GR	1468.000	4930.000	1464.000	4980.000	1462.000	5000.000	1464.000	5030.000	1468.000	5050.000
[illegible]	1472.000	5300.000	1473.000	5460.000	1472.000	5575.000	1471.000	5650.000	1472.000	5740.000
GR	1475.500	5790.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	4.600	12.000	4975.000	5030.000	770.000	810.000	885.000	.000	.000	.000
GR	1477.000	4705.000	1476.000	4750.000	1472.000	4975.000	1468.000	4990.000	1466.000	5000.000
GR	1468.000	5015.000	1472.000	5030.000	1476.000	5130.000	1478.000	5150.000	1476.000	5170.000
GR	1476.000	5260.000	1473.500	5435.000	.000	.000	.000	.000	.000	.000
X1	4.782	18.000	4980.000	5020.000	890.000	930.000	960.000	.000	.000	.000
GR	1484.000	3935.000	1484.000	4010.000	1484.500	4075.000	1484.000	4150.000	1484.000	4230.000
GR	1485.000	4305.000	1484.000	4390.000	1482.000	4700.000	1480.000	4980.000	1476.000	4985.000
GR	1472.000	4990.000	1471.000	5000.000	1472.000	5010.000	1476.000	5015.000	1480.000	5020.000
GR	1483.000	5170.000	1484.000	5500.000	1483.500	5690.000	.000	.000	.000	.000
X1	4.948	14.000	4920.000	5190.000	830.000	875.000	875.000	.000	.000	.000
GR	1494.000	3740.000	1492.000	3850.000	1492.000	4240.000	1490.000	4550.000	1488.000	4820.000
GR	1488.000	4920.000	1488.000	4950.000	1484.000	4970.000	1481.000	5000.000	1484.000	5020.000
GR	1488.000	5190.000	1492.000	5250.000	1494.000	5365.000	1494.000	5890.000	.000	.000
X1	5.118	18.000	4950.000	5055.000	820.000	880.000	900.000	.000	.000	.000
GR	1500.000	3770.000	1498.000	4205.000	1496.000	4580.000	1492.000	4690.000	1492.000	4825.000
GR	1488.000	4840.000	1487.500	4855.000	1488.000	4870.000	1492.000	4895.000	1492.000	4950.000
GR	1488.000	4980.000	1487.000	5000.000	1488.000	5020.000	1492.000	5055.000	1496.000	5120.000
GR	1496.000	5320.000	1500.000	5500.000	1503.000	5710.000	.000	.000	.000	.000

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NC	.070	.070	.050	.000	.000	.000	.000	.000	.000	.000
X1	5.181	19.000	4970.000	5050.000	330.000	290.000	330.000	.000	.000	.000
GR	1504.000	3795.000	1500.000	4270.000	1496.000	4475.000	1492.000	4490.000	1492.000	4510.000
GR	1492.000	4530.000	1496.000	4615.000	1497.000	4715.000	1496.000	4890.000	1492.000	4970.000
GR	1490.000	5000.000	1492.000	5010.000	1496.000	5050.000	1500.000	5150.000	1502.000	5210.000
GR	1500.000	5270.000	1500.000	5335.000	1504.000	5500.000	1505.000	5615.000	.000	.000
X1	5.249	10.000	4990.000	5020.000	440.000	280.000	360.000	.000	.000	.000
GR	1506.000	3700.000	1504.000	4120.000	1500.100	4630.000	1500.100	4730.000	1501.000	4875.000
GR	1500.000	4990.000	1500.000	5000.000	1500.000	5020.000	1504.000	5185.000	1506.000	5450.000
NC	.090	.090	.060	.000	.000	.000	.000	.000	.000	.000
X1	5.455	15.000	4915.000	5050.000	925.000	1120.000	1090.000	.000	.000	.000
GR	1513.000	4070.000	1512.000	4135.000	1508.000	4305.000	1509.000	4420.000	1508.000	4515.000
GR	1509.000	4680.000	1508.000	4850.000	1508.000	4915.000	1507.000	5000.000	1507.500	5050.000
GR	1509.000	5160.000	1508.000	5210.000	1508.000	5275.000	1512.000	5460.000	1513.000	5550.000
X1	5.630	13.000	4920.000	5035.000	890.000	920.000	920.000	.000	.000	.000
GR	1518.000	4350.000	1516.000	4510.000	1515.500	4790.000	1514.000	4920.000	1513.000	5000.000
GR	1514.000	5035.000	1514.000	5140.000	1516.000	5180.000	1516.000	5295.000	1519.000	5370.000
GR	1516.000	5490.000	1520.000	5600.000	1521.000	5655.000	.000	.000	.000	.000
[illegible]	.060	.060	.050	.300	.500	.000	.000	.000	.000	.000
X1	5.747	13.000	4700.000	5460.000	610.000	610.000	620.000	.000	.000	.000
GR	1523.000	4520.000	1522.000	4700.000	1520.000	4975.000	1519.000	5000.000	1520.000	5020.000
GR	1520.000	5200.000	1520.000	5460.000	1524.000	5590.000	1525.000	5620.000	1524.000	5650.000
GR	1523.000	5750.000	1524.000	5880.000	1526.000	6010.000	.000	.000	.000	.000
X1	5.785	4.000	4540.000	5225.000	100.000	270.000	200.000	.000	.000	.000
GR	1524.000	4540.000	1521.000	5000.000	1524.000	5225.000	1528.000	5585.000	.000	.000

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 X1      5.909     16.000   4960.000   5040.000    730.000    430.000    650.000       .000       .000       .000
 GR   1534.000   4450.000   1532.000   4605.000   1528.000   4670.000   1527.500   4690.000   1528.000   4715.000
 GR   1531.000   4740.000   1528.000   4790.000   1527.500   4815.000   1528.000   4850.000   1528.000   4960.000
 GR   1527.000   5000.000   1528.000   5040.000   1529.000   5120.000   1528.000   5225.000   1528.000   5270.000
 GR   1532.000   5340.000       .000       .000       .000       .000       .000       .000       .000       .000

 E       .090       .070       .050       .100       .300       .000       .000       .000       .000       .000
 X1      6.040      9.000   4930.000   5035.000    715.000    650.000    695.000       .000       .000       .000
 X2   6356.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1540.000   4300.000   1536.000   4475.000   1535.000   4550.000   1536.000   4810.000   1536.000   4930.000
 GR   1534.000   5000.000   1536.000   5035.000   1539.000   5385.000       .000       .000       .000       .000

 X1      6.150     12.000   4950.000   5040.000    570.000    600.000    580.000       .000       .000       .000
 GR   1545.000   4270.000   1544.000   4400.000   1540.000   4650.000   1542.000   4780.000   1540.000   4950.000
 GR   1538.000   5000.000   1540.000   5040.000   1541.000   5100.000   1540.000   5210.000   1542.000   5250.000
 GR   1544.000   5270.000   1545.000   5310.000       .000       .000       .000       .000       .000       .000
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 X1      6.229      7.000   4965.000   5035.000    560.000    320.000    420.000       .000       .000       .000
 GR   1552.000   4800.000   1551.700   4965.000   1543.200   4966.000   1543.200   5000.000   1543.200   5034.000
 GR   1551.700   5035.000   1552.000   5400.000       .000       .000       .000       .000       .000       .000
 EJ      .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
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 05/05/88    18:24:02                                                                                    PAGE    7


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     6.54  1338.54      .00  1338.00  1338.74      .21      .00      .00  1336.00
     6162.    3144.     1653.    1365.    1370.     272.     710.       0.       0.  1336.00
      .00     2.30      6.07     1.92     .080     .050     .090     .000  1332.00  4267.63
   .005635       0.        0.       0.        0        0        5      .00  1189.66  5457.30
0
 FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1338.54

 STA=    4268.    4370.    4780,    4810.    4960.    5020.    5065.    5150.    5385.    5457.
   PER Q=     1.5     30.3      3.2     16.0     26.8      4.3      8.1      9.7       .2
    AREA=    78.6    834.6     76.1    300.3    272.1    114.1    215.5    368.8     19.4
     VEL=     1.2      2.2      2.6      2.6      6.1      2.3      2.3      1.6       .5

 *SECNO  .238
      .24     5.67  1344.67      .00      .00  1344.04      .17     6.09      .00  1340.00
     6162.    2649.     1199.    2314.    1169.     207.    1003.      68.      33.  1340.00
      .12     2.27      5.00     2.29     .080     .050     .090     .000  1339.00  4405.63
   .004270    1200.     1255.    1315.        4        0        0      .00  1097.52  5503.34
0
 FLOW DISTRIBUTION FOR SECNO=       .24          CWSEL=   1344.67

 STA=    4406.    4465.    4770,    4980.    5020.    5070.    5115.    5130.    5155.    5285.    5355.    5420.    5503.
   PER Q=      .2     10.7     32.1     19.5      7.6      6.9      3.7      6.2     11.7       .6       .6       .2
    AREA=    19.7    432.1    717.5    206.7    183.3    165.0     73.8    122.9    346.7     46.7     43.3     27.8
     VEL=      .6      1.5      2.8      5.8      2.6      2.6      3.1      3.1      2.1       .8       .8       .5

 *SECNO  .441
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      .44     3.30  1351.30      .00      .00  1351.30      .00      .00      .00  1350.00
     6162.     517.     806.    4840.     346.     160.    1741.     125.      64.  1350.00
      .22     1.49     5.02     2.78     .080     .050     .090     .000  1348.00  4424.00
   .009473    1075.    1075.    1085.        3        0        0      .00  1398.59  5822.67
0
 FLOW DISTRIBUTION FOR SECNO=       .44          CWSEL=   1351.30

 STA=    4424.    4545.    4960.    5030.    5230.    5715.    5823.
   PER Q=       .1      8.2     13.1     13.8     59.9      4.9
    AREA=     17.6    328.4    160.4    358.3   1232.6    150.3
     VEL=       .5      1.5      5.0      2.4      3.0      2.0

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  05/05/88    18:24:02                                                                                                    PAGE    8

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 CCHV=    .300 CEHV=    .500
 *SECNO  .604
      .60     3.39  1356.19      .00      .00  1356.28      .09     4.91      .02  1353.50
     6125.    2958.     922.    2245.    1589.     243.     997.     175.      96.  1353.50
      .32     1.86     3.79     2.25     .070     .050     .070     .000  1352.80  3624.37
   .003701     840.     860.     865.        5        0        0      .00  1946.53  5570.90
0
 FLOW DISTRIBUTION FOR SECNO=       .60          CWSEL=   1356.19

 STA=    3624.    4070.    4550.    4810.    4960.    5040.    5220.    5280.    5535.    5571.
   PER Q=       .6     13.5     20.2     14.0     15.1     22.9      6.6      7.2       .0
    AREA=     83.2    570.7    569.1    365.8    243.1    529.0    161.3    303.2      3.4
     VEL=       .4      1.4      2.2      2.3      3.8      2.6      2.5      1.4       .3

 *SECNO  .892

 3301 HV CHANGED MORE THAN HVING


 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1367.50 ELREA=     1367.50

      .89     3.60  1363.90      .00      .00  1365.53     1.62     8.48      .77  1372.00
     6125.       0.    6125.       0.       0.     599.       0.     228.     126.  1372.00
      .36      .00    10.22      .00     .035     .035     .035     .000  1360.30  4916.69
   .011064    1000.    1520.    1700.        4        0        0      .00   166.62  5083.31
0
 FLOW DISTRIBUTION FOR SECNO=       .89          CWSEL=   1363.90

 STA=    4917.    5084.
   PER Q=    100.0
    AREA=    599.5
     VEL=     10.2


 SPECIAL BRIDGE

 227 DOWNSTREAM ELEV IS   1363.16 ,NOT   1363.90 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
```

```
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SGTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.25     1.60     2.60      .00   167.00    10.00  1570.00     .00  1360.50  1360.30

 SECNO  .901

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.=   1364.02 BRIDGE VELOCITY=,     10.79     CALCULATED CHANNEL AREA=,     552.

 EGPRS     EGLWC      H3       QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD
                                                            AREA
      .00  1366.08     .00        0.    6125.    1570.    1570.    1370.50  1372.00



3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1367.50 ELREA=     1367.50

      .90     4.58  1365.08     .00      .00  1366.08     1.00      .56      .00  1372.00
    6125.       0.    6125.      0.       0.     762.       0.     228.     127.  1372.00
      .36      .00     8.04     .00     .000     .035     .000     .000  1360.50  4916.60
  .005046      48.      48.     48.        0        0        0      .00   166.80  5083.40
0
 FLOW DISTRIBUTION FOR SECNO=       .90          CWSEL=   1365.08

 STA=    4917.    5084.
   PER Q=    100.0
   AREA=     762.1
    VEL=       6.0

 CCHV=    .100 CEHV=    .300
 *SECNO  .944

3265 DIVIDED FLOW

3280 CROSS SECTION       .94 EXTENDED       .87 FEET


3301 HV CHANGED MORE THAN HVINS

      .94     5.37  1366.37     .00      .00  1366.39     .02      .21      .10  1364.00
    6125.     3835.    1938.    352.    4722.    1228.    538.     265.     137.  1365.00
      .45      .81     1.58     .65     .065     .035    .065     .000  1361.00  3410.00
  .000235     560.     225.    140.        3        0       0      .00  1976.88  5409.28
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SGTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .94          CWSEL=   1366.37

STA=    3410.    3670.    4455.    4800.    4821.    4855.    5180.    5200.    5290.    5350.    5409.
  PER Q=      3.3     41.0     18.0      .2       .1     31.6      .3      3.0      2.0       .4
   AREA=    421.5   2960.4   1301.1    24.6     14.1   1228.1    37.4    258.4    172.3     70.3
    VEL=       .5       .8       .8      .4       .4      1.6      .5       .7       .7       .4
```

```
*SECNO  .987

3265 DIVIDED FLOW

      .99     4.91  1366.41      .00      .00  1366.55      .13      .13      .03  1362.50
    6125.     847.    5139.     139.     969.    1610.     183.     303.     151.  1364.00
      .48      .87     3.19      .76     .065     .035     .065     .000  1361.50  3996.98
  .000853     450.     227.     180.        2        0        0      .00  1312.93  5351.21
0
FLOW DISTRIBUTION FOR SECNO=       .99          CWSEL=   1366.41

STA=    3997.    4615.    4730.    4770.    5200.    5351.
  PER Q=      6.3      4.6      3.0     83.9      2.3
   AREA=    593.1    249.5    126.8   1609.8    182.9
    VEL=       .6      1.1      1.4      3.2       .8

*SECNO 1.129

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.13     5.18  1368.98  1368.98      .00  1369.67      .69     1.30      .17  1368.00
    6125.     668.    4151.    1306.     516.     520.     620.     341.     175.  1368.00
      .51     1.29     7.98     2.11     .065     .035     .065     .000  1363.80  4089.59
  .005320     730.     750.     750.       20        8        0      .00  1470.67  5566.75
0
FLOW DISTRIBUTION FOR SECNO=      1.13          CWSEL=   1368.98

STA=    4090.    4380.    4720.    4884.    4935.    5060.    5190.    5260.    5380.    5430.    5450.    5567.
  PER Q=      3.3      6.8       .4       .4     67.8      3.4      5.2      3.0      1.9       .8      1.0
   AREA=    171.8    283.3     39.7     21.7    519.9    127.8    128.3    220.0     61.7     24.7     57.4
    VEL=      1.2      1.5       .6      1.0      8.0      1.6      2.5      2.5      1.9      1.9      1.0

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.330
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.33     4.68  1375.28  1375.28      .00  1375.96      .68     6.26      .00  1372.00
    6125.    1477.    3433.    1215.     619.     398.     556.     380.     208.  1372.00
      .57     2.39     8.63     2.19     .065     .035     .065     .000  1370.60  4325.62
  .006565    1075.    1060.    1055.        4       12        0      .00  1230.29  5555.91
0
FLOW DISTRIBUTION FOR SECNO=      1.33          CWSEL=   1375.28

STA=    4326.    4760.    4910.    5010.    5105.    5360.    5475.    5556.
  PER Q=      6.2     17.9     56.0     11.3      5.1      2.3      1.2
   AREA=    277.5    341.6    397.8    216.4    198.3     89.4     51.7
    VEL=      1.4      3.2      8.6      3.2      1.6      1.6      1.4

*SECNO 1.519
7185 MINIMUM SPECIFIC ENERGY
```

```
3720 CRITICAL DEPTH ASSUMED
     1.52     6.27  1381.77  1381.77      .00  1382.69      .92      6.03      .07  1380.00
    5944.      171.     5206.     568.     113.     633.     407.     411.     233.   1380.00
      .60     1.52     8.22     1.39     .065     .035     .065     .000  1375.50  4772.85
  .005514    1040.    1000.     980.        2       14        0      .00   905.75  5678.59
0
 FLOW DISTRIBUTION FOR SECNO=      1.52          CWSEL=   1381.77

 STA=    4773.    4900.    4950.    5100.    5140.    5310.    5560.    5679.
   PER Q=      .7      2.1     87.6      1.7      1.6      4.6      1.6
    AREA=    49.0     63.5    633.1     50.8     88.5    192.7     75.3
     VEL=      .9      2.0      8.2      2.0      1.1      1.4      1.3

 *SECNO 1.671
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.67     5.16  1387.16  1387.16      .00  1388.12      .96      5.19      .01  1384.00
    5944.    1126.     3795.    1023.     371.     395.     370.     432.     247.   1384.00
      .63     3.04     9.61     2.77     .065     .035     .065     .000  1382.00  4708.87
  .007679     830.     805.     765.        3       16        0      .00   631.22  5340.09
0
 FLOW DISTRIBUTION FOR SECNO=      1.67          CWSEL=   1387.16

 STA=    4709.    4810.    4955.    5050.    5270.    5340.
   PER Q=      1.4     17.6     63.8     17.2       .0
    AREA=    58.4    312.6    394.8    364.3      5.5
     VEL=      1.4      3.3      9.6      2.8       .4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 1.845
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     1.85     6.11  1393.11  1393.11      .00  1393.98      .86      5.61      .01  1388.00
    5944.    1754.     3460.     729.     565.     365.     445.     459.     263.   1388.00
      .67     3.10     9.48     1.64     .065     .035     .065     .000  1387.00  4661.45
  .005001     950.     915.     860.        4        8        0      .00   991.66  5653.11
0
 FLOW DISTRIBUTION FOR SECNO=      1.85          CWSEL=   1393.11

 STA=    4661.    4810.    4965.    5030.    5060.    5140.    5300.    5630.    5653.
   PER Q=      1.5     28.0     58.2      5.4      1.0      1.9      4.0       .0
    AREA=    82.8    492.7    364.9     93.4     49.1     98.3    202.7      1.3
     VEL=      1.1      3.4      9.5      3.4      1.2      1.2      1.2       .2

 *SECNO 2.023
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     2.02     6.54  1398.04  1398.04      .00  1399.13     1.08      5.07      .07  1392.00
    5944.    1680.     4037.     227.     636.     405.     128.     486.     281.   1396.00
      .71     2.64     9.98     1.78     .065     .035     .065     .000  1391.50  4545.13
  .005866     935.     940.     925.        2        8        0      .00   630.09  5175.21
0
 FLOW DISTRIBUTION FOR SECNO=      2.02          CWSEL=   1398.04

 STA=    4545.    4660.    4895.    4950.    4975.    5050.    5175.
   PER Q=      1.1     14.3      5.3      7.5     67.9      3.8
    AREA=    60.0    362.9    112.4    101.1    404.6    128.0
```

```
 VEL=      1.1      2.3      2.6      4.4      10.6      1.5

 *SECNO 2.254
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      2.25     6.45  1405.45  1405.45      .00  1406.22      .77     5.53      .03  1400.00
     5944.     2064.     3301.      579.     844.      357.     356.      517.     298.   1400.00
       .76     2.45      9.24     1.63     .065     .035     .065     .000  1399.00  4358.00
   .004399      880.     1220.     950.        2        6        0      .00  1045.03  5403.11
0
 FLOW DISTRIBUTION FOR SECNO=      2.25          CWSEL=   1405.45

 STA=    4358.    4750.    4850.    4970.    5030.    5040.    5370.    5403.
   PER Q=      5.9      4.7     24.1     55.5      1.9      7.7       .1
    AREA=    284.4    145.2    414.2    357.1     34.5    314.0      7.5
     VEL=      1.2      1.9      3.5      9.2      3.3      1.5       .6

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  05/05/88    18:24:02                                                                          PAGE   13

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 2.427
      2.43     6.39  1410.19      .00      .00  1410.72      .54     4.47      .02  1408.00
     5944.     3012.     2514.      419.     989.      300.     230.      548.     319.   1408.00
       .90     3.05      8.38     1.82     .065     .035     .065     .000  1403.80  4285.00
   .005659      870.      915.     970.        3        0        0      .00   970.23  5255.23

 FLOW DISTRIBUTION FOR SECNO=      2.43          CWSEL=   1410.19

 STA=    4285.    4320.    4675.    4860.    4890.    4910.    4930.    4975.    5045.    5255.
   PER Q=       .0      5.5     12.8      9.4     12.1      6.2      4.8     42.3      7.0
    AREA=      3.2    242.9    311.6    125.5    123.7     83.7     98.3    299.9    229.6
     VEL=       .4      1.3      2.4      4.4      5.8      4.4      2.9      8.4      1.8

 *SECNO 2.584
      2.58     2.81  1416.31  1416.18      .00  1416.70      .39     5.96      .01  1414.00
     5944.     3385.     1983.      577.    1228.      256.     218.      579.     340.   1414.00
       .86     2.76      7.76     2.65     .065     .035     .065     .000  1413.50  3992.44
   .009548      825.      830.     800.       15       13        0      .00  1237.11  5229.55
0
 FLOW DISTRIBUTION FOR SECNO=      2.58          CWSEL=   1416.31

 STA=    3992.    4020.    4550.    4785.    4950.    5050.    5215.    5230.
   PER Q=       .0     21.8     18.5     16.6     33.4      9.7       .0
    AREA=      4.2    559.8    365.7    298.0    255.6    215.5      2.2
     VEL=       .6      2.3      3.0      3.3      7.8      2.7       .6

 *SECNO 2.776
      2.78     4.01  1422.01      .00      .00  1422.12      .10     5.39      .03  1419.00
     5944.     3327.     1415.     1202.    1636.      357.     670.      626.     369.   1420.00
       .96     2.03      3.97     1.79     .070     .050     .070     .000  1418.00  4084.30
   .003710      930.     1010.     960.        5        0        0      .00  1425.12  5509.42

 FLOW DISTRIBUTION FOR SECNO=      2.78          CWSEL=   1422.01

 STA=    4084.    4170.    4545.    4590.    4650.    4840.    4950.    5060.    5275.    5509.
   PER Q=      1.9     26.3      1.5      1.9     13.3     11.1     23.8     15.1      5.2
    AREA=     86.4    756.2     57.0     76.0    383.1    276.8    356.8    433.5    236.3
     VEL=      1.3      2.1      1.5      1.5      2.1      2.4      4.0      2.1      1.3
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 2.955
      2.95     4.76  1427.76      .00      .00  1428.25      .48     6.02      .11  1424.00
     6120.    2915.    1530.    1675.     755.     170.     450.     670.     393.   1424.00
      1.02     3.86     8.99     3.72     .070     .050     .070     .000  1423.00  4445.34
   .013270     970.     950.     860.        2        0        0      .00   809.16  5254.51
0
 FLOW DISTRIBUTION FOR SECNO=      2.95          CWSEL=   1427.76

 STA=    4445.    4680.    4975.    5015.    5255.
   PER Q=      1.9     45.8     25.0     27.4
   AREA=      88.8    665.8    170.3    449.9
    VEL=       1.3      4.2      9.0      3.7

 *SECNO 3.096
      3.10     5.67  1432.67      .00      .00  1432.85      .18     4.57      .03  1428.00
     6120.    2818.    1409.    1893.    1133.     258.     779.     699.     407.   1428.00
      1.08     2.49     5.45     2.43     .070     .050     .070     .000  1427.00  4509.99
   .003775     660.     740.     770.        5        0        0      .00   885.60  5395.58
0
 FLOW DISTRIBUTION FOR SECNO=      3.10          CWSEL=   1432.67

 STA=    4510.    4550.    4970.    5020.    5300.    5396.
   PER Q=       .1     45.9     23.0     30.6       .3
   AREA=      13.3   1120.1    258.3    746.7     31.9
    VEL=       .6      2.5      5.5      2.5       .6

 *SECNO 3.216
      3.22     5.48  1435.48      .00      .00  1435.71      .22     2.85      .01  1432.00
     6120.    2943.    1492.    1684.     967.     274.     538.     727.     418.   1432.00
      1.13     3.04     5.44     3.13     .070     .050     .070     .000  1430.00  4555.66
   .005452     590.     635.     700.        3        0        0      .00   679.59  5235.25
0
 FLOW DISTRIBUTION FOR SECNO=      3.22          CWSEL=   1435.48

 STA=    4556.    4790.    4950.    5020.    5055.    5080.    5100.    5235.
   PER Q=     15.2     32.9     24.4      7.2      6.4      5.1      8.8
   AREA=     409.0    558.4    274.3    122.2     99.8     79.8    236.0
    VEL=       2.3      3.6      5.4      3.6      3.9      3.9      2.3
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 3.337
      3.34     5.03  1438.09      .00      .00  1438.22      .13     2.50      .01  1434.00
     6129.    2035.    1626.    2468.     894.     368.    1373.     759.     430.   1434.00
      1.19     2.28     4.42     1.80     .080     .050     .080     .000  1433.00  4651.97
   .002888     775.     640.     500.        2        0        0      .00  1018.32  5670.29
0
 FLOW DISTRIBUTION FOR SECNO=      3.34          CWSEL=   1438.09
```

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STA=    4652.    4750.    4820.    4960.    5040.    5270.    5350.    5400.    5560.    5670.
  PER Q=     1.7      7.5     24.0     26.5     24.7      2.9      1.8      9.0      1.9
   AREA=   103.0    217.0    574.1    368.1    713.2    128.1     80.0    336.1    115.8
    VEL=     1.0      2.1      2.6      4.4      2.1      1.4      1.4      1.6      1.0

*SECNO 3.494

3301 HV CHANGED MORE THAN HVINS

     3.49     6.52  1442.52  1442.48      .00  1443.31      .79     4.89      .20  1440.00
    6129.    2541.    2030.    1558.     680.     181.     413.     796.     447.  1440.00
     1.23     3.73    11.22     3.77     .080     .050     .090     .000  1436.00  4567.97
  .019526     785.     830.     825.        7       14        0      .00   757.41  5325.38
0
 FLOW DISTRIBUTION FOR SECNO=      3.49          CWSEL=   1442.52

 STA=    4568.    4770.    4880.    4980.    5020.    5050.    5075.    5240.    5325.
   PER Q=    12.6     15.1     13.7     33.1      6.0      5.0     14.1       .4
    AREA=   255.1    222.8    202.5    181.0     75.8     63.1    251.7     22.4
     VEL=     3.0      4.2      4.2     11.2      4.8      4.8      3.4      1.1

 *SECNO 3.656

 3301 HV CHANGED MORE THAN HVINS

     3.66     7.63  1448.63      .00      .00  1448.82      .19     5.45      .06  1444.00
    6129.    2515.    1713.    1900.    1105.     307.     959.     831.     462.  1444.00
     1.31     2.28     5.58     1.98     .080     .050     .090     .000  1441.00  4567.26
  .003174     845.     855.     835.        5        0        0      .00   854.56  5421.82
0
 FLOW DISTRIBUTION FOR SECNO=      3.66          CWSEL=   1448.63

 STA=    4567.    4615.    4825.    4980.    5030.    5390.    5422.
   PER Q=      .1     12.7     28.2     28.0     30.9      .1
    AREA=    15.2    448.7    641.2    306.8    949.1     10.1
     VEL=      .5      1.7      2.7      5.6      2.0      .5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.795

 3301 HV CHANGED MORE THAN HVINS

     3.80     7.91  1451.91      .00      .00  1452.75      .84     3.73      .20  1448.00
    6129.    1663.    3582.     885.     594.     384.     316.     862.     474.  1448.00
     1.34     2.80     9.32     2.80     .080     .050     .090     .000  1444.00  4671.65
  .009285     735.     735.     750.        4        0        0      .00   529.81  5201.46
0
 FLOW DISTRIBUTION FOR SECNO=      3.80          CWSEL=   1451.91

 STA=    4672.    4975.    5040.    5201.
   PER Q=    27.1     58.4     14.4
    AREA=   593.7    384.4    316.0
     VEL=     2.8      9.3      2.8

 *SECNO 3.969
     3.97     8.39  1457.89      .00      .00  1458.25      .37     5.46      .05  1452.00
```

```
   6129.    1368.    2488.    1878.     837.     387.     745.     330.     787.   1456.00
    1.40     2.82     6.96     2.25     .080     .050     .080     .000  1449.50  4772.16
 .004017     955.     915.     945.        2        0        0      .00   671.14  5443.29
0
 FLOW DISTRIBUTION FOR SECNO=      3.97          CWSEL=   1457.09

 STA=    4772.    4810.    4980.    5030.    5150.    5443.
  PER Q=      .7     31.4     40.6     22.2      5.1
   AREA=    35.8    661.7    357.1    467.1    277.5
    VEL=     1.1      2.9      7.0      2.9      1.1

 *SECNO 4.115
    4.11     8.32  1460.82      .00      .00  1461.12      .30     2.86      .01  1456.00
   6129.     295.    2500.    3334.     139.     394.    1578.     928.     500.  1456.00
    1.45     2.12     6.34     2.11     .080     .050     .080     .000  1452.50  4891.18
 .003728     690.     770.     730.        3        0        0      .00   887.05  5778.23
0
 FLOW DISTRIBUTION FOR SECNO=      4.11          CWSEL=   1460.82

 STA=    4891.    4920.    4965.    5025.    5520.    5700.    5778.
  PER Q=      .1      4.7     40.8     51.7      2.4       .3
   AREA=    11.9    127.1    394.4   1397.6    148.2     32.2
    VEL=      .6      2.3      6.3      2.3      1.0       .6

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        GLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

 *SECNO 4.270

 3301 HV CHANGED MORE THAN HVINS

    4.27     6.90  1464.90  1464.66      .00  1465.75      .85     4.46      .17  1460.00
   6243.    1332.    3995.     916.     496.     442.     338.     959.     514.  1460.00
    1.48     2.63     9.03     2.71     .080     .050     .080     .000  1458.00  4595.48
 .008687     835.     870.     730.        4       15        0      .00   728.76  5324.23
0
 FLOW DISTRIBUTION FOR SECNO=      4.27          CWSEL=   1464.90

 STA=    4595.    4665.    4860.    4960.    5035.    5110.    5165.    5324.
  PER Q=      .5      4.5     16.3     64.0     12.2      1.3      1.2
   AREA=    31.2    174.9    289.7    442.3    217.3     49.3     71.4
    VEL=     1.0      1.6      3.5      9.0      3.5      1.6      1.0

 *SECNO 4.431
    4.43     8.21  1470.21      .00      .00  1471.11      .90     5.35      .01  1464.00
   6243.    1877.    4075.     291.     606.     445.     152.     982.     526.  1468.00
    1.52     3.10     9.17     1.91     .060     .040     .060     .000  1462.00  4632.04
 .005233     825.     810.     730.        3        0        0      .00   555.92  5187.96
0
 FLOW DISTRIBUTION FOR SECNO=      4.43          CWSEL=   1470.21

 STA=    4632.    4770.    4820.    4870.    4930.    4980.    5050.    5188.
  PER Q=     4.7      5.4      2.0      2.4     15.7     65.3      4.7
   AREA=   152.3    110.4     60.4     72.4    210.4    444.5    152.3
    VEL=     1.9      3.0      2.0      2.0      4.7      9.2      1.9

 *SECNO 4.600
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
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```
     6243.    1293.    4375.     575.     418.     397.     186.    1002.     534.   1472.00
      1.54     3.10    11.02     3.10     .060     .040     .060     .000  1466.00  4758.24
   .006522     770.     885.     810.        2       11        0      .00   368.10  5126.34
0
 FLOW DISTRIBUTION FOR SECNO=      4.60          CWSEL=   1475.85

 STA=    4758.    4975.    5030.    5126.
   PER Q=     20.7     70.1      9.2
    AREA=    417.6    396.9    185.6
     VEL=      3.1     11.0      3.1

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 4.782
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      4.78    12.08  1483.08  1483.08      .00  1484.21     1.12     5.28      .02  1480.00
     6243.    1753.    3931.     559.     675.     373.     239.    1027.     545.   1480.00
      1.58     2.60    10.53     2.34     .060     .040     .060     .000  1471.00  4531.85
   .004880     890.     960.     930.        3       12        0      .00   666.15  5198.00
0
 FLOW DISTRIBUTION FOR SECNO=      4.78          CWSEL=   1483.08

 STA=    4532.    4700.    4980.    5020.    5170.    5198.
   PER Q=      1.7     26.4     63.0      9.0       .0
    AREA=     91.2    583.8    373.4    237.7      1.2
     VEL=      1.2      2.8     10.5      2.4       .2

 *SECNO 4.948
      4.95     7.75  1488.75      .00      .00  1489.50      .75     5.26      .04  1488.00
     6243.     181.     6057.       5.     114.     859.       4.    1049.     556.   1488.00
      1.61     1.58     7.05     1.14     .060     .040     .060     .000  1481.00  4717.84
   .007721     830.     875.     875.        3        0        0      .00   483.51  5201.35
0
 FLOW DISTRIBUTION FOR SECNO=      4.95          CWSEL=   1488.75

 STA=    4718.    4820.    4920.    5190.    5201.
   PER Q=       .7      2.2     97.0       .1
    AREA=     38.7     75.7    859.3      4.3
     VEL=      1.1      1.8      7.0      1.1

 *SECNO 5.118
      5.12     6.94  1493.94      .00      .00  1494.44      .50     4.92      .02  1492.00
     6243.    2635.    3560.      48.     764.     514.      31.    1072.     566.   1492.00
      1.66     3.45     6.93     1.57     .060     .040     .060     .000  1487.00  4636.63
   .004216     820.     900.     880.        3        0        0      .00   449.91  5086.54
0
 FLOW DISTRIBUTION FOR SECNO=      5.12          CWSEL=   1493.94

 STA=    4637.    4690.    4825.    4840.    4855.    4870.    4895.    4950.    5055.    5087.
   PER Q=      1.3     10.5      3.7      8.1      8.1      6.3      4.3     57.0       .8
    AREA=     51.8    262.0     59.1     92.9     92.9     98.5    106.7    513.8     30.6
     VEL=      1.6      2.5      3.9      5.4      5.4      4.0      2.5      5.9      1.6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 5.181

 3265 DIVIDED FLOW

     5.18     6.20  1496.20      .00      .00  1497.20     1.00     2.60      .15  1492.00
    6243.    3298.    2945.       0.     569.     296.       0.    1080.     569.  1496.00
     1.67     5.79     9.96      .63     .070     .050     .070     .000  1490.00  4464.96
  .019002     330.     330.     290.        3        0        0      .00   368.82  5054.90
0
 FLOW DISTRIBUTION FOR SECNO=      5.18          CWSEL=   1496.20

 STA=    4465.    4490.    4510.    4530.    4615.    4635.    4890.    4970.    5050.    5055.
   PER Q=     2.6     10.4     10.4     15.1       .0       .0     14.2     47.2       .0
    AREA=    33.9     83.9     83.9    186.7     1.9      3.4    175.7    295.7       .5
     VEL=     4.8      7.8      7.8      5.0       .6       .6      5.0     10.0       .6

 *SECNO 5.249

 3301 HV CHANGED MORE THAN HVING

     5.25     2.93  1502.93  1502.07      .00  1503.16      .23     5.89      .00  1500.00
    6243.    5182.     557.     504.    1430.      88.     177.    1092.     575.  1500.00
     1.70     3.62     6.33     2.85     .070     .050     .070     .000  1500.00  4260.07
  .010841     440.     360.     280.       14       17        0      .00   880.74  5140.81
0
 FLOW DISTRIBUTION FOR SECNO=      5.25          CWSEL=   1502.93

 STA=    4260.    4630.    4730.    4875.    4990.    5020.    5141.
   PER Q=    23.3     20.0     21.8     17.9      9.9      8.1
    AREA=   523.2    282.9    344.9    279.3     87.9    176.9
     VEL=     2.8      4.4      3.9      4.0      6.3      2.8

 *SECNO 5.455
     5.45     3.49  1510.49      .00      .00  1510.60      .11     7.43      .01  1508.00
    6243.    3037.    1627.    1579.    1486.     417.     733.    1141.     598.  1507.50
     1.81     2.04     3.90     2.16     .090     .060     .090     .000  1507.00  4198.99
  .005530     925.    1090.    1120.        6        0        0      .00  1191.37  5390.36
0
 FLOW DISTRIBUTION FOR SECNO=      5.45          CWSEL=   1510.49

 STA=    4199.    4305.    4420.    4515.    4680.    4850.    4915.    5050.    5160.    5210.    5275.    5390.
   PER Q=     3.0     10.4      8.6     10.3     10.6      5.9     26.1     11.6      4.5      5.9      3.3
    AREA=   132.2    286.8    237.0    329.1    339.0    162.1    416.7    301.9    124.7    162.1    143.9
     VEL=     1.4      2.3      2.3      1.9      1.9      2.3      3.9      2.4      2.3      2.3      1.4

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 5.630
     5.63     4.03  1517.03      .00      .00  1517.29      .26     6.64      .04  1514.00
    6243.    1639.    2343.    2260.     707.     406.     851.    1189.     622.  1514.00
     1.87     2.32     5.77     2.66     .090     .060     .090     .000  1513.00  4427.63
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 .010112     890.     320.     320.       4        0        0      .00  [illegible]  [illegible]
0
 FLOW DISTRIBUTION FOR SECNO=      5.63          CWSEL=   1517.03

 STA=    4428.    4510.    4780.    4920.    5035.    5140.    5180.    5255.    5370.    5490.    5518.
   PER Q=      .7     10.8     14.7     37.5     17.7      3.5      2.1      6.2      6.5       .2
    AREA=    42.4    345.5    319.2    405.9    318.1     81.2     77.2    175.9    183.6     14.6
     VEL=     1.1      2.0      2.9      5.8      3.5      2.7      1.7      2.2      2.2      1.1

 CCHV=    .300 CEHV=    .500
 *SECNO 5.747
      5.75     3.31  1522.31      .00      .00  1522.56      .24     5.26      .00  1522.00
     6243.       5.    6035.     203.       3.    1506.      87.    1214.     636.   1520.00
      1.92      .62     4.01     2.33     .060     .050     .060     .000  1519.00  4643.51
   .007304     610.     620.     610.        5        0        0      .00   891.69  5535.20
0
 FLOW DISTRIBUTION FOR SECNO=      5.75          CWSEL=   1522.31

 STA=    4644.    4700.    5460.    5535.
   PER Q=      .1     96.7      3.2
    AREA=     8.9   1506.0     87.0
     VEL=      .6      4.0      2.3

 *SECNO 5.785
 3280 CROSS SECTION      5.78 EXTENDED       .25 FEET

      5.78     3.24  1524.24      .00      .00  1524.66      .42     2.02      .09  1524.00
     6243.       0.    6241.       2.       0.    1196.       3.    1221.     639.   1524.00
      1.93      .00     5.22      .74     .060     .050     .060     .000  1521.00  4540.00
   .014654     100.     200.     270.        2        0        0      .00   707.19  5247.19
0
 FLOW DISTRIBUTION FOR SECNO=      5.78          CWSEL=   1524.24

 STA=    4540.    5225.    5247.
   PER Q=    100.0       .0
    AREA=   1196.4      2.7
     VEL=      5.2       .7

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 5.908

 3265 DIVIDED FLOW

      5.91     3.58  1530.58      .00      .00  1530.81      .24     6.09      .06  1528.00
     6243.     2671.    1287.    2285.     720.     246.     725.    1241.     650.   1528.00
      1.97     3.71     5.23     3.15     .060     .050     .060     .000  1527.00  4628.12
   .006917     730.     650.     430.        4        0        0      .00   805.31  5443.98
0
 FLOW DISTRIBUTION FOR SECNO=      5.91          CWSEL=   1530.58

 STA=    4628.    4690.    4715.    4790.    4815.    4860.    4960.    5040.    5120.    5225.    5270.    5444.
   PER Q=     5.8      4.7      3.2      4.7      8.4     16.0     20.6      8.9     11.7      7.2      8.8
    AREA=   110.5     70.7     83.0     70.7    127.2    257.8    246.2    166.2    218.1    116.0    224.2
     VEL=     3.3      4.1      2.4      4.1      4.1      3.9      5.2      3.4      3.4      3.9      2.4

 CCHV=    .100 CEHV=    .300
 *SECNO 6.040
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    6.04     3.73  1537.73      .00      .00  1538.26      .73      7.02      .00  1538.00
    6356.    3652.    2242.     462.    1031.     289.     179.    1266.     663.   1536.00
     2.01     3.54     7.77     2.59     .090     .050     .070     .000  1534.00  4398.44
  .017739     715.     695.     650.        3        0        0      .00   840.73  5239.17
0
 FLOW DISTRIBUTION FOR SECNO=      6.04          CWSEL=   1537.75

 STA=    4398.    4475.    4550.    4810.    4930.    5035.    5239.
   PER Q=      2.1     10.0     34.8     10.6     35.3      7.3
    AREA=     67.0    168.8    585.0    210.0    288.8    178.6
     VEL=      2.0      3.8      3.8      3.2      7.8      2.6

 *SECNO 6.150
     6.15     5.34  1543.34      .00      .00  1543.62      .27      5.40      .02  1540.00
    6356.    2171.    2344.    1840.    1054.     391.     587.    1290.     674.   1540.00
     2.05     2.06     5.99     3.14     .090     .050     .070     .000  1538.00  4440.86
  .005739     570.     580.     600.        5        0        0      .00   822.61  5263.46
0
 FLOW DISTRIBUTION FOR SECNO=      6.15          CWSEL=   1543.34

 STA=    4441.    4650.    4780.    4950.    5040.    5100.    5210.    5250.    5263.
   PER Q=      9.7     10.6     13.9     36.9      8.7     15.9      4.2       .2
    AREA=    349.9    305.0    398.9    391.2    170.8    313.1     93.9      9.1
     VEL=      1.8      2.2      2.2      6.0      3.2      3.2      2.8      1.2

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 6.229

 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
     6.23     6.43  1549.63  1549.63      .00  1552.84     3.21     4.47      .88  1551.70
    6356.       0.    6356.       0.       0.     442.       0.    1303.     679.   1551.70
     2.06      .00    14.39      .00     .090     .050     .070     .000  1543.20  4965.24
  .024376     560.     420.     320.       20       11        0      .00    63.51  5034.76
0
 FLOW DISTRIBUTION FOR SECNO=      6.23          CWSEL=   1549.63

 STA=    4965.    5035.
   PER Q=    100.0
    AREA=    441.8
     VEL=     14.4

1
 PROFILE FOR STREAM  CAP FLOODPLAIN-#1 WEST


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1300.     1350.     1400.     1450.     1500.     1550.     1600.     1650.     1700.     1750.
    SECNO   CUMDIS

      .00      0.  C     ILE .        .        .        .        .        .        .        .        .
```

	200.	C	IE .	.	.	.	.	.	.	.	.	.
	300.	C	IE .	.	.	.	.	.	.	.	.	.
	400.	C	IEM.	.	.	.	.	.	.	.	.	.
	500.	C	IEM.	.	.	.	.	.	.	.	.	.
	600.	C	IEM.	.	.	.	.	.	.	.	.	.
	700.	C	IEM.	.	.	.	.	.	.	.	.	.
	800.	C	IWE.	.	.	.	.	.	.	.	.	.
	900.	C	ILE.	.	.	.	.	.	.	.	.	.
	1000.	C	IE.	.	.	.	.	.	.	.	.	.
	1100.	C	IE.	.	.	.	.	.	.	.	.	.
	1200.	C	IEM	.	.	.	.	.	.	.	.	.
.24	1300.	C	IEM	.	.	.	.	.	.	.	.	.
	1400.	C	IEM	.	.	.	.	.	.	.	.	.
	1500.	C	IEM	.	.	.	.	.	.	.	.	.
	1600.	C	IEM	.	.	.	.	.	.	.	.	.
	1700.	C	IEM	.	.	.	.	.	.	.	.	.
	1800.	C	IE	.	.	.	.	.	.	.	.	.
	1900.	C	IE	.	.	.	.	.	.	.	.	.
	2000.	C	IE	.	.	.	.	.	.	.	.	.
	2100.	C	IE	.	.	.	.	.	.	.	.	.
	2200.	C	IEM	.	.	.	.	.	.	.	.	.
	2300.	C	IEM	.	.	.	.	.	.	.	.	.
.44	2400.	C	EM	.	.	.	.	.	.	.	.	.
	2500.	C	EM	.	.	.	.	.	.	.	.	.
	2600.	C	WE	.	.	.	.	.	.	.	.	.
	2700.	C	IE	.	.	.	.	.	.	.	.	.
	2800.	C	IE	.	.	.	.	.	.	.	.	.
	2900.	C	IE	.	.	.	.	.	.	.	.	.
	3000.	C	IE	.	.	.	.	.	.	.	.	.
	3100.	C	IE	.	.	.	.	.	.	.	.	.
.60	3200.	C	.E	.	.	.	.	.	.	.	.	.
	3300.	C	.EM	.	.	.	.	.	.	.	.	.
	3400.	C	.EM	.	.	.	.	.	.	.	.	.
	3500.	C	.IE	.	.	.	.	.	.	.	.	.
	3600.	C	.IE	.	.	.	.	.	.	.	.	.
	3700.	C	.IE	.	.	.	.	.	.	.	.	.
	3800.	C	.IEM	.	.	.	.	.	.	.	.	.
	3900.	C	.IEM	.	.	.	.	.	.	.	.	.
	4000.	C	.IEL	.	.	.	.	.	.	.	.	.
	4100.	C	.IEL	.	.	.	.	.	.	.	.	.
	4200.	C	. EL	.	.	.	.	.	.	.	.	.
	4300.	C	. WEM	.	.	.	.	.	.	.	.	.
	4400.	C	. WEL	.	.	.	.	.	.	.	.	.
	4500.	C	. IEL	.	.	.	.	.	.	.	.	.
	4600.	C	. IEL	.	.	.	.	.	.	.	.	.
	4700.	C	. IEL	.	.	.	.	.	.	.	.	.
.89	4800.	C	. IEL	.	.	.	.	.	.	.	.	.
.90	4900.	C	. IEL	.	.	.	.	.	.	.	.	.
.94	5000.	C	. IE	.	.	.	.	.	.	.	.	.
	5100.	C	. IE	.	.	.	.	.	.	.	.	.
	5200.	C	. IE	.	.	.	.	.	.	.	.	.
.99	5300.	C	. IE	.	.	.	.	.	.	.	.	.
	5400.	C	. IE	.	.	.	.	.	.	.	.	.
	5500.	C	. IEM	.	.	.	.	.	.	.	.	.
	5600.	C	. IWE	.	.	.	.	.	.	.	.	.
	5700.	C	. IE	.	.	.	.	.	.	.	.	.
	5800.	C	. IE	.	.	.	.	.	.	.	.	.
	5900.	C	. IE	.	.	.	.	.	.	.	.	.
1.13	6000.	.	. IE	.	.	.	.	.	.	.	.	.
	6100.	.	. IE	.	.	.	.	.	.	.	.	.
	6200.	.	. IE	.	.	.	.	.	.	.	.	.
	6300.	.	. IE	.	.	.	.	.	.	.	.	.
	6400.	.	. IE	.	.	.	.	.	.	.	.	.
	6500.	.	. IWE	.	.	.	.	.	.	.	.	.
	6600.	.	. IE	.	.	.	.	.	.	.	.	.

	6700.	.	.	IE	.	.	.	.	.	.	.	.
	6800.	.	.	IE	.	.	.	.	.	.	.	.
	6900.	.	.	IE	.	.	.	.	.	.	.	.
	7000.	.	.	IE	.	.	.	.	.	.	.	.
1.33	7100.	.	.	IE	.	.	.	.	.	.	.	.
	7200.	.	.	IE	.	.	.	.	.	.	.	.
	7300.	.	.	IE	.	.	.	.	.	.	.	.
	7400.	.	.	IWE	.	.	.	.	.	.	.	.
	7500.	.	.	IE	.	.	.	.	.	.	.	.
	7600.	.	.	IE	.	.	.	.	.	.	.	.
	7700.	.	.	IE	.	.	.	.	.	.	.	.
	7800.	.	.	IE	.	.	.	.	.	.	.	.
	7900.	.	.	IE	.	.	.	.	.	.	.	.
	8000.	.	.	IE	.	.	.	.	.	.	.	.
1.52	8100.	.	.	IWE	.	.	.	.	.	.	.	.
	8200.	.	.	IWE	.	.	.	.	.	.	.	.
	8300.	.	.	ILE	.	.	.	.	.	.	.	.
	8400.	.	.	IE	.	.	.	.	.	.	.	.
	8500.	.	.	IE	.	.	.	.	.	.	.	.
	8600.	.	.	IE	.	.	.	.	.	.	.	.
	8700.	.	.	IE	.	.	.	.	.	.	.	.
	8800.	.	.	IE	.	.	.	.	.	.	.	.
1.67	8900.	.	.	IWE	.	.	.	.	.	.	.	.
	9000.	.	.	IE	.	.	.	.	.	.	.	.
	9100.	.	.	IE	.	.	.	.	.	.	.	.
	9200.	.	.	IE	.	.	.	.	.	.	.	.
	9300.	.	.	IE	.	.	.	.	.	.	.	.
	9400.	.	.	IE	.	.	.	.	.	.	.	.
	9500.	.	.	IEM	.	.	.	.	.	.	.	.
	9600.	.	.	IWE	.	.	.	.	.	.	.	.
	9700.	.	.	IWE	.	.	.	.	.	.	.	.
1.85	9800.	.	.	ILE	.	.	.	.	.	.	.	.
	9900.	.	.	ILE	.	.	.	.	.	.	.	.
	10000.	.	.	IE	.	.	.	.	.	.	.	.
	10100.	.	.	IE	.	.	.	.	.	.	.	.
	10200.	.	.	IE	.	.	.	.	.	.	.	.
	10300.	.	.	IEM	.	.	.	.	.	.	.	.
	10400.	.	.	IEM	.	.	.	.	.	.	.	.
	10500.	.	.	IWE	.	.	.	.	.	.	.	.
	10600.	.	.	IWE	.	.	.	.	.	.	.	.
2.02	10700.	.	.	IRE	.	.	.	.	.	.	.	.
	10800.	.	.	ILE	.	.	.	.	.	.	.	.
	10900.	.	.	IE	.	.	.	.	.	.	.	.
	11000.	.	.	IE	.	.	.	.	.	.	.	.
	11100.	.	.	IEM	.	.	.	.	.	.	.	.
	11200.	.	.	IEM	.	.	.	.	.	.	.	.
	11300.	.	.	IWE	.	.	.	.	.	.	.	.
	11400.	.	.	IWE	.	.	.	.	.	.	.	.
	11500.	.	.	IRE	.	.	.	.	.	.	.	.
	11600.	.	.	ILE	.	.	.	.	.	.	.	.
	11700.	.	.	IE	.	.	.	.	.	.	.	.
	11800.	.	.	IE	.	.	.	.	.	.	.	.
2.25	11900.	.	.	IEM	.	.	.	.	.	.	.	.
	12000.	C	.	IEM	.	.	.	.	.	.	.	.
	12100.	C	.	IEM	.	.	.	.	.	.	.	.
	12200.	C	.	IWE	.	.	.	.	.	.	.	.
	12300.	C	.	ILE	.	.	.	.	.	.	.	.
	12400.	C	.	ILE	.	.	.	.	.	.	.	.
	12500.	C	.	ILE	.	.	.	.	.	.	.	.
	12600.	C	.	.IE	.	.	.	.	.	.	.	.
	12700.	C	.	.IE	.	.	.	.	.	.	.	.
	12800.	C	.	.IE	.	.	.	.	.	.	.	.
2.43	12900.	C	.	.IE	.	.	.	.	.	.	.	.
	13000.	C	.	.IEM	.	.	.	.	.	.	.	.
	13100.	C	.	.IEM	.	.	.	.	.	.	.	.
	13200.	C	.	.IWE	.	.	.	.	.	.	.	.

	13300.	C	.	.	IE	.	.	.	.	.	.	.
	13400.	C	.	.	IE	.	.	.	.	.	.	.
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	13600.	C	.	.	IE	.	.	.	.	.	.	.
2.58	13700.	.	.	.	EM	.	.	.	.	.	.	.
	13800.	C	.	.	EM	.	.	.	.	.	.	.
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	14400.	C	.	.	IE	.	.	.	.	.	.	.
	14500.	C	.	.	IEM	.	.	.	.	.	.	.
	14600.	C	.	.	EM	.	.	.	.	.	.	.
2.78	14700.	C	.	.	EM	.	.	.	.	.	.	.
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	14900.	C	.	.	IE	.	.	.	.	.	.	.
	15000.	C	.	.	IE	.	.	.	.	.	.	.
	15100.	C	.	.	IE	.	.	.	.	.	.	.
	15200.	C	.	.	IE	.	.	.	.	.	.	.
	15300.	C	.	.	IE	.	.	.	.	.	.	.
	15400.	C	.	.	IE	.	.	.	.	.	.	.
	15500.	C	.	.	IE	.	.	.	.	.	.	.
	15600.	C	.	.	WE	.	.	.	.	.	.	.
2.95	15700.	C	.	.	IE	.	.	.	.	.	.	.
	15800.	C	.	.	IE	.	.	.	.	.	.	.
	15900.	C	.	.	IE	.	.	.	.	.	.	.
	16000.	C	.	.	IE	.	.	.	.	.	.	.
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	16300.	C	.	.	IE	.	.	.	.	.	.	.
3.10	16400.	C	.	.	ILE	.	.	.	.	.	.	.
	16500.	C	.	.	ILE	.	.	.	.	.	.	.
	16600.	C	.	.	IE	.	.	.	.	.	.	.
	16700.	C	.	.	IE	.	.	.	.	.	.	.
	16800.	C	.	.	IE	.	.	.	.	.	.	.
	16900.	C	.	.	IE	.	.	.	.	.	.	.
3.22	17000.	C	.	.	IE	.	.	.	.	.	.	.
	17100.	C	.	.	IE	.	.	.	.	.	.	.
	17200.	C	.	.	IE	.	.	.	.	.	.	.
	17300.	C	.	.	IE	.	.	.	.	.	.	.
	17400.	C	.	.	IEM	.	.	.	.	.	.	.
	17500.	C	.	.	ILE	.	.	.	.	.	.	.
	17600.	C	.	.	IE	.	.	.	.	.	.	.
3.34	17700.	C	.	.	IE	.	.	.	.	.	.	.
	17800.	C	.	.	IE	.	.	.	.	.	.	.
	17900.	C	.	.	IE	.	.	.	.	.	.	.
	18000.	C	.	.	IE	.	.	.	.	.	.	.
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	18200.	C	.	.	IE	.	.	.	.	.	.	.
	18300.	C	.	.	IEM	.	.	.	.	.	.	.
	18400.	C	.	.	IWE	.	.	.	.	.	.	.
3.49	18500.	.	.	.	ICE	.	.	.	.	.	.	.
	18600.	C	.	.	ILE	.	.	.	.	.	.	.
	18700.	C	.	.	ILE	.	.	.	.	.	.	.
	18800.	C	.	.	IE	.	.	.	.	.	.	.
	18900.	C	.	.	IE	.	.	.	.	.	.	.
	19000.	C	.	.	IE	.	.	.	.	.	.	.
	19100.	C	.	.	IEM	.	.	.	.	.	.	.
	19200.	C	.	.	ILE	.	.	.	.	.	.	.
	19300.	C	.	.	ILE	.	.	.	.	.	.	.
3.66	19400.	C	.	.	ILE	.	.	.	.	.	.	.
	19500.	C	.	.	ILE	.	.	.	.	.	.	.
	19600.	C	.	.	ILE	.	.	.	.	.	.	.
	19700.	C	.	.	ILE	.	.	.	.	.	.	.
	19800.	C	.	.	IE	.	.	.	.	.	.	.

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       19900. C     .     .     IE    .     .     .     .     .     .     .
       20000. C     .     .     IE    .     .     .     .     .     .     .
  3.80 20100. C     .     .     IWE   .     .     .     .     .     .     .
       20200. C     .     .     ILE   .     .     .     .     .     .     .
       20300. C     .     .     ILE   .     .     .     .     .     .     .
       20400. C     .     .     ILE   .     .     .     .     .     .     .
       20500. C     .     .     ILE   .     .     .     .     .     .     .
       20600. C     .     .     ILE   .     .     .     .     .     .     .
       20700. C     .     .      IE   .     .     .     .     .     .     .
       20800. C     .     .      IE   .     .     .     .     .     .     .
       20900. C     .     .     IWE   .     .     .     .     .     .     .
  3.97 21000. C     .     .     I E   .     .     .     .     .     .     .
       21100. C     .     .     ILE   .     .     .     .     .     .     .
       21200. C     .     .     ILE   .     .     .     .     .     .     .
       21300. C     .     .     ILE   .     .     .     .     .     .     .
       21400. C     .     .     ILE   .     .     .     .     .     .     .
       21500. C     .     .     ILE   .     .     .     .     .     .     .
       21600. C     .     .     ILE   .     .     .     .     .     .     .
       21700. C     .     .     ILEM  .     .     .     .     .     .     .
  4.11 21800. C     .     .    .IEM   .     .     .     .     .     .     .
       21900. C     .     .    .IEM   .     .     .     .     .     .     .
       22000. C     .     .    .IEM   .     .     .     .     .     .     .
       22100. C     .     .    .IWE   .     .     .     .     .     .     .
       22200. C     .     .    .ILE   .     .     .     .     .     .     .
       22300. C     .     .    .ILE   .     .     .     .     .     .     .
       22400. C     .     .    .ILE   .     .     .     .     .     .     .
       22500. C     .     .    .ILE   .     .     .     .     .     .     .
  4.27 22600. .     .     .    . IEM  .     .     .     .     .     .     .
       22700. C     .     .    . IEM  .     .     .     .     .     .     .
       22800. C     .     .    . IEM  .     .     .     .     .     .     .
       22900. C     .     .    . IWE  .     .     .     .     .     .     .
       23000. C     .     .    . IRE  .     .     .     .     .     .     .
       23100. C     .     .    . IREM .     .     .     .     .     .     .
       23200. C     .     .    . ILEM .     .     .     .     .     .     .
       23300. C     .     .    . ILEM .     .     .     .     .     .     .
       23400. C     .     .    . ILEM .     .     .     .     .     .     .
  4.43 23500. C     .     .    . ILEM .     .     .     .     .     .     .
       23600. C     .     .    . ILEM .     .     .     .     .     .     .
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       23800. C     .     .    .  IWE .     .     .     .     .     .     .
       23900. C     .     .    .  ILE .     .     .     .     .     .     .
       24000. C     .     .    .  ILE .     .     .     .     .     .     .
       24100. C     .     .    .  ILE .     .     .     .     .     .     .
       24200. C     .     .    .  ILE .     .     .     .     .     .     .
  4.60 24300. .     .     .    .  ILE .     .     .     .     .     .     .
       24400. .     .     .    .  I WE .     .     .     .     .     .     .
       24500. .     .     .    .  I WE .     .     .     .     .     .     .
       24600. .     .     .    .   ILE .     .     .     .     .     .     .
       24700. .     .     .    .   ILE .     .     .     .     .     .     .
       24800. .     .     .    .   ILE .     .     .     .     .     .     .
       24900. .     .     .    .   ILE .     .     .     .     .     .     .
       25000. .     .     .    .   I E .     .     .     .     .     .     .
       25100. .     .     .    .   I WE .     .     .     .     .     .     .
       25200. .     .     .    .   I LE .     .     .     .     .     .     .
  4.78 25300. .     .     .    .   I LE .     .     .     .     .     .     .
       25400. . C   .     .    .   I LE .     .     .     .     .     .     .
       25500. C     .     .    .    ILE .     .     .     .     .     .     .
       25600. C     .     .    .    I E .     .     .     .     .     .     .
       25700. C     .     .    .    I EM .     .     .     .     .     .     .
       25800. C     .     .    .    I EM .     .     .     .     .     .     .
       25900. C     .     .    .     IWE .     .     .     .     .     .     .
       26000. C     .     .    .     ILE .     .     .     .     .     .     .
       26100. C     .     .    .     ILEM.     .     .     .     .     .     .
  4.95 26200. C     .     .    .     I EM.     .     .     .     .     .     .
       26300. C     .     .    .     I EM.     .     .     .     .     .     .
       26400. C     .     .    .     I EM.     .     .     .     .     .     .
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     26500. C  .  .  .  IEM.  .  .  .  .  .  .
     26600. C  .  .  .  IEM.  .  .  .  .  .  .
     26700. C  .  .  .  IEM.  .  .  .  .  .  .
     26800. C  .  .  .  IWEM  .  .  .  .  .  .
     26900. C  .  .  .  ILEM  .  .  .  .  .  .
     27000. C  .  .  .  ILEM  .  .  .  .  .  .
5.12 27100. C  .  .  .  ILEM  .  .  .  .  .  .
     27200. C  .  .  .   IEM  .  .  .  .  .  .
     27300. C  .  .  .   IEM  .  .  .  .  .  .
5.18 27400. C  .  .  .   IE.M  .  .  .  .  .  .
     27500. C  .  .  .    IEM  .  .  .  .  .  .
     27600. C  .  .  .    IEM  .  .  .  .  .  .
     27700. C  .  .  .     EM  .  .  .  .  .  .
5.25 27800. .  .  .  .     IE  .  .  .  .  .  .
     27900. .  .  C  .     IE  .  .  .  .  .  .
     28000. C  .  .  .     IE  .  .  .  .  .  .
     28100. C  .  .  .    IEM  .  .  .  .  .  .
     28200. C  .  .  .    .EM  .  .  .  .  .  .
     28300. C  .  .  .    .EM  .  .  .  .  .  .
     28400. C  .  .  .    .EM  .  .  .  .  .  .
     28500. C  .  .  .    .IE  .  .  .  .  .  .
     28600. C  .  .  .    .IE  .  .  .  .  .  .
     28700. C  .  .  .    .IE  .  .  .  .  .  .
     28800. C  .  .  .    .IE  .  .  .  .  .  .
5.45 28900. C  .  .  .    .IEM  .  .  .  .  .  .
     29000. C  .  .  .    . EM  .  .  .  .  .  .
     29100. C  .  .  .    . EM  .  .  .  .  .  .
     29200. C  .  .  .    . IE  .  .  .  .  .  .
     29300. C  .  .  .    . IE  .  .  .  .  .  .
     29400. C  .  .  .    . IE  .  .  .  .  .  .
     29500. C  .  .  .    . IE  .  .  .  .  .  .
     29600. C  .  .  .    . IE  .  .  .  .  .  .
     29700. C  .  .  .    . IE  .  .  .  .  .  .
5.63 29800. C  .  .  .    .  EM  .  .  .  .  .  .
     29900. C  .  .  .    .  IE  .  .  .  .  .  .
     30000. C  .  .  .    .  IE  .  .  .  .  .  .
     30100. C  .  .  .    .  IE  .  .  .  .  .  .
     30200. C  .  .  .    .  IE  .  .  .  .  .  .
     30300. C  .  .  .    .   E  .  .  .  .  .  .
5.75 30400. C  .  .  .    .   WE  .  .  .  .  .  .
     30500. C  .  .  .    .   IE  .  .  .  .  .  .
5.78 30600. C  .  .  .    .   IE  .  .  .  .  .  .
     30700. C  .  .  .    .   IE  .  .  .  .  .  .
     30800. C  .  .  .    .    E  .  .  .  .  .  .
     30900. C  .  .  .    .    EM  .  .  .  .  .  .
     31000. C  .  .  .    .    IE  .  .  .  .  .  .
     31100. C  .  .  .    .    IE  .  .  .  .  .  .
5.91 31200. C  .  .  .    .    IE  .  .  .  .  .  .
     31300. C  .  .  .    .     EM  .  .  .  .  .  .
     31400. C  .  .  .    .     IE  .  .  .  .  .  .
     31500. C  .  .  .    .     IE  .  .  .  .  .  .
     31600. C  .  .  .    .     IE  .  .  .  .  .  .
     31700. C  .  .  .    .     IE  .  .  .  .  .  .
     31800. C  .  .  .    .      EM  .  .  .  .  .  .
6.04 31900. C  .  .  .    .      IE  .  .  .  .  .  .
     32000. C  .  .  .    .      IE  .  .  .  .  .  .
     32100. C  .  .  .    .      IE  .  .  .  .  .  .
     32200. C  .  .  .    .      IE  .  .  .  .  .  .
     32300. C  .  .  .    .      IEM.  .  .  .  .  .
     32400. C  .  .  .    .      ILE.  .  .  .  .  .
6.15 32500. C  .  .  .    .       IE.  .  .  .  .  .
     32600. C  .  .  .    .       IE.  .  .  .  .  .
     32700. C  .  .  .    .       IWE  .  .  .  .  .
     32800. C  .  .  .    .       I E  .  .  .  .  .
6.23 32900. .  .  .  .    .        IWE  .  .  .  .  .
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THIS RUN EXECUTED 05/05/88 18:26:05

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#1 WEST

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	.000	6162.00	1338.54	4267.63	4960.00	5020.00	5457.30	.00	1189.66	6.54	1332.00	56.35	6.07
	.230	6162.00	1344.67	4405.63	4980.00	5020.00	5503.34	6.13	1097.52	5.67	1339.00	42.70	5.00
	.441	6162.00	1351.30	4424.08	4960.00	5030.00	5822.67	6.63	1398.59	3.30	1348.00	94.73	5.02
	.604	6125.00	1356.19	3624.37	4960.00	5040.00	5570.90	4.89	1946.53	3.39	1352.80	37.01	3.79
	.832	6125.00	1363.90	4916.69	4916.00	5084.00	5083.31	7.72	166.62	3.60	1360.30	110.64	10.22
*	.901	6125.00	1365.08	4916.60	4916.00	5084.00	5083.40	1.18	166.00	4.58	1360.50	50.46	8.04
	.944	6125.00	1366.37	3410.00	4855.00	5180.00	5409.28	1.29	1976.88	5.37	1361.00	2.35	1.58
	.987	6125.00	1366.41	3996.98	4770.00	5200.00	5351.21	.04	1312.93	4.91	1361.50	8.53	3.19
*	1.129	6125.00	1368.98	4089.59	4935.00	5060.00	5566.75	2.57	1470.67	5.18	1363.80	53.20	7.98
*	1.330	6125.00	1375.28	4325.62	4910.00	5010.00	5555.91	6.29	1230.29	4.68	1370.60	65.65	8.63
*	1.519	5944.00	1381.77	4772.85	4950.00	5100.00	5678.59	6.49	905.75	6.27	1375.50	55.14	8.22
*	1.671	5944.00	1387.16	4708.87	4955.00	5050.00	5340.09	5.39	631.22	5.16	1382.00	76.79	9.61
*	1.845	5944.00	1393.11	4661.45	4965.00	5030.00	5653.11	5.96	991.66	6.11	1387.00	50.01	9.48
*	2.023	5944.00	1398.04	4545.13	4975.00	5050.00	5175.21	4.93	630.09	6.54	1391.50	58.66	9.98
*	2.254	5944.00	1405.45	4358.08	4970.00	5030.00	5403.11	7.41	1045.03	6.45	1399.00	43.99	9.24
	2.427	5944.00	1410.19	4285.00	4975.00	5045.00	5255.23	4.73	970.23	6.39	1403.80	56.59	8.38
	2.584	5944.00	1416.31	3992.44	4950.00	5050.00	5229.55	6.12	1237.11	2.81	1413.50	95.48	7.76

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
2.776	5944.00	1422.01	4094.30	4950.00	5060.00	5509.42	5.70	1425.12	4.01	1418.00	37.10	3.97

	2.933	6120.00	1427.75	4503.97	4970.00	5020.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	3.096	6120.00	1432.67	4503.99	4970.00	5020.00	5395.58	4.90	885.60	5.67	1427.00	37.75	5.45
	3.216	6120.00	1435.48	4555.66	4950.00	5020.00	5235.25	2.82	679.59	5.48	1430.00	54.52	5.44
	3.337	6129.00	1438.09	4651.97	4960.00	5040.00	5670.29	2.61	1018.32	5.09	1433.00	28.80	4.42
	3.494	6129.00	1442.52	4567.97	4980.00	5020.00	5325.38	4.42	757.41	6.52	1436.00	195.26	11.22
	3.656	6129.00	1448.63	4567.26	4980.00	5030.00	5421.82	6.12	854.56	7.63	1441.00	31.74	5.58
	3.795	6129.00	1451.91	4671.65	4975.00	5040.00	5201.46	3.28	529.81	7.91	1444.00	92.95	9.32
	3.969	6129.00	1457.89	4772.16	4980.00	5030.00	5443.29	5.97	671.14	8.39	1449.50	40.17	6.96
	4.115	6129.00	1460.82	4891.18	4965.00	5025.00	5778.23	2.94	887.05	8.32	1452.50	37.28	6.34
	4.270	6243.00	1464.90	4595.48	4960.00	5035.00	5324.23	4.08	729.76	6.90	1458.00	86.87	9.03
	4.431	6243.00	1470.21	4632.04	4980.00	5050.00	5187.96	5.32	555.92	8.21	1462.00	52.33	9.17
*	4.600	6243.00	1475.85	4758.24	4975.00	5030.00	5126.34	5.64	368.10	9.85	1466.00	65.22	11.02
*	4.782	6243.00	1483.08	4531.85	4980.00	5020.00	5198.00	7.23	666.15	12.08	1471.00	48.80	10.53
	4.948	6243.00	1488.75	4717.84	4920.00	5190.00	5201.35	5.67	483.51	7.75	1481.00	77.21	7.05
	5.118	6243.00	1493.34	4636.63	4950.00	5055.00	5086.54	5.19	449.91	6.94	1487.00	42.16	6.93
	5.181	6243.00	1496.20	4464.96	4970.00	5050.00	5054.90	2.26	368.82	6.20	1490.00	198.02	9.96
	5.249	6243.00	1502.93	4260.07	4990.00	5020.00	5140.81	6.73	880.74	2.93	1500.00	108.41	6.33
	5.455	6243.00	1510.49	4198.99	4915.00	5050.00	5390.36	7.56	1191.37	3.49	1507.00	55.30	3.90
	5.630	6243.00	1517.03	4427.63	4920.00	5035.00	5518.32	6.54	1090.69	4.03	1513.00	101.12	5.77
	5.747	6243.00	1522.31	4643.51	4700.00	5460.00	5535.20	5.28	891.69	3.31	1519.00	73.04	4.01
	5.785	6243.00	1524.24	4540.00	4540.00	5225.00	5247.19	1.93	707.19	3.24	1521.00	146.54	5.22
	5.908	6243.00	1530.58	4628.12	4960.00	5040.00	5443.98	6.34	805.31	3.58	1527.00	69.17	5.23
	6.040	6356.00	1537.75	4398.44	4930.00	5035.00	5239.17	7.17	840.73	3.75	1534.00	177.33	7.77
	6.150	6356.00	1543.34	4440.86	4950.00	5040.00	5263.46	5.60	822.61	5.34	1538.00	57.39	5.99
*	6.229	6356.00	1549.63	4965.24	4965.00	5035.00	5034.76	6.28	69.51	6.43	1543.20	243.76	14.39

1

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= .901 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 1.129 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.129 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1.129 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.330 PROFILE= 1 CRITICAL DEPTH ASSUMED

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CAUTION  SECNO=    1.330  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.519  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.519  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.671  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.671  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.845  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.845  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    2.023  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.023  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    2.254  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.254  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    4.600  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    4.600  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    4.782  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    4.782  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    6.229  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    6.229  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    6.229  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL

1
 05/05/88    18:26:10                                                                                    PAGE    1


                                                                                THIS RUN EXECUTED 05/05/88   18:26:11
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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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INPUT FILE: CAP2WEST

OUTPUT FILE: CAP2WEST.OUT

THIS RUN EXECUTED 05/05/88 19:23:00

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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T1 WITTMANN AREA DRAINAGE MASTER STUDY.
T2 100-YEAR STORM EVENT. SECOND OVERCHUTE WEST OF GRAND AVENUE.
T3 CAP FLOODPLAIN-#2 WEST

J1	ICHECK	INQ	NINV	IDIR	STAT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.006230	.00	.5	2300.	1335.000	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	8.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

NC	.080	.080	.070	.100	.300	.000	.000	.000	.000	.000
X1	.000	19.000	4710.000	5380.000	.000	.000	.000	.000	.000	.000
GR	1342.500	3110.000	1340.000	3120.000	1336.000	3135.000	1336.000	3150.000	1342.000	3410.000
GR	1343.000	3460.000	1342.000	3530.000	1336.000	3705.000	1336.500	3850.000	1336.000	4000.000
GR	1335.000	4100.000	1336.000	4280.000	1336.000	4340.000	1333.000	4710.000	1334.000	4920.000
GR	1333.000	5000.000	1334.000	5060.000	1336.000	5315.000	1338.000	5380.000	.000	.000
X1	.214	11.000	4910.000	5360.000	1030.000	1200.000	1140.000	.000	.000	.000
GR	1345.000	4135.000	1347.000	4300.000	1344.000	4420.000	1343.000	4510.000	1344.000	4660.000
GR	1343.000	4815.000	1344.500	4910.000	1342.000	5000.000	1343.000	5360.000	1344.000	5880.000
GR	1348.000	6210.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.384	13.000	4920.000	5150.000	915.000	870.000	890.000	.000	.000	.000
GR	1352.000	4615.000	1348.500	4920.000	1348.000	4980.000	1347.500	5000.000	1348.000	5015.000
GR	1349.500	5150.000	1349.500	5340.000	1348.000	5400.000	1349.000	5430.000	1350.000	5910.000
GR	1351.000	6000.000	1352.000	6415.000	1353.000	6515.000	.000	.000	.000	.000
X1	.551	8.000	4650.000	5300.000	910.000	840.000	880.000	.000	.000	.000
GR	1357.000	4020.000	1356.000	4370.000	1354.000	4650.000	1351.000	5000.000	1351.000	5380.000
GR	1352.000	5785.000	1356.000	6080.000	1360.000	6275.000	.000	.000	.000	.000

X1	.739	8.000	4820.000	5400.000	940.000	915.000	940.000	.000	.000	.000

GR	1364.000	3590.000	1362.000	4340.000	1360.000	4820.000	1356.000	5000.000	1359.500	5400.000
GR	1358.000	5605.000	1360.000	5810.000	1364.000	5990.000	.000	.000	.000	.000
NC	.090	.090	.070	.000	.000	.000	.000	.000	.000	.000
X1	.905	12.000	4895.000	5575.000	1040.000	840.000	930.000	.000	.000	.000
GR	1370.000	4135.000	1368.000	4275.000	1364.000	4650.000	1363.500	4700.000	1364.000	4750.000
GR	1364.500	4810.000	1364.000	4895.000	1363.000	5000.000	1364.000	5575.000	1368.000	6015.000
GR	1372.000	6225.000	1373.000	6290.000	.000	.000	.000	.000	.000	.000
X1	1.140	10.000	4815.000	5400.000	1400.000	1050.000	1240.000	.000	.000	.000
GR	1375.000	4150.000	1372.000	4430.000	1370.000	4610.000	1369.500	4815.000	1369.500	5000.000
GR	1370.000	5400.000	1371.500	5765.000	1370.000	6030.000	1372.000	6330.000	1376.000	6520.000
X1	1.371	8.000	4740.000	5240.000	870.000	1200.000	1230.000	.000	.000	.000
GR	1381.000	4690.000	1380.000	4740.000	1375.900	5000.000	1378.000	5240.000	1376.000	5400.000
GR	1376.000	5500.000	1376.000	5750.000	1380.000	5910.000	.000	.000	.000	.000
NC	.080	.060	.050	.000	.000	.000	.000	.000	.000	.000
X1	1.517	8.000	4970.000	5030.000	850.000	760.000	770.000	.000	.000	.000
GR	1383.800	4710.000	1380.000	4910.000	1380.000	4970.000	1379.000	5000.000	1380.000	5030.000
GR	1381.000	5080.000	1380.000	5140.000	1384.000	5220.000	.000	.000	.000	.000
X1	1.634	8.000	4950.000	5050.000	620.000	610.000	615.000	.000	.000	.000
GR	1386.000	4690.000	1384.000	4740.000	1382.500	4950.000	1381.500	5000.000	1382.500	5050.000
GR	1384.000	5170.000	1384.000	5240.000	1388.000	5405.000	.000	.000	.000	.000
X1	1.731	22.000	4940.000	5040.000	450.000	490.000	515.000	.000	.000	.000
GR	1389.000	3150.000	1388.000	3310.000	1385.000	3410.000	1386.000	3600.000	1391.500	3710.000
GR	1388.000	3980.000	1387.000	4110.000	1389.000	4300.000	1389.000	4490.000	1389.000	4660.000
GR	1384.500	4900.000	1384.000	4940.000	1383.000	5000.000	1384.000	5040.000	1385.000	5130.000
GR	1389.000	5200.000	1389.000	5270.000	1388.000	5370.000	1388.000	5490.000	1387.500	5550.000
GR	1388.000	5580.000	1391.500	5735.000	.000	.000	.000	.000	.000	.000
NC	.070	.060	.050	.300	.500	.000	.000	.000	.000	.000
X1	1.851	16.000	4870.000	5060.000	570.000	675.000	595.000	.000	.000	.000
GR	1391.000	3020.000	1388.000	3400.000	1389.000	3650.000	1391.500	3710.000	1391.000	3910.000
GR	1392.000	4060.000	1393.000	4220.000	1392.000	4400.000	1388.000	4620.000	1388.000	4870.000
GR	1385.000	5000.000	1389.000	5060.000	1388.000	5150.000	1392.000	5250.000	1394.000	5500.000
GR	1396.000	5770.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.025	.025	.025	.000	.000	.000	.000	.000	.000	.000
X1	1.984	5.000	4920.000	5080.000	600.000	800.000	700.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1399.500	1399.500	.000
GR	1400.100	4920.000	1389.800	4921.000	1389.800	5000.000	1389.800	5079.000	1400.100	5080.000
SB	1.250	1.600	2.600	.000	158.000	5.000	1472.500	.000	1390.000	1389.800
X1	1.993	5.000	4920.000	5080.000	48.000	48.000	48.000	.000	.000	.000
X2	.000	.000	1.000	1399.500	1400.800	.000	.000	1.330	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	1400.800	1400.800	.000
BT	2.000	4920.000	1400.800	1399.500	5080.000	1400.800	1399.500	.000	.000	.000
GR	1400.800	4920.000	1390.000	4921.000	1390.000	5000.000	1390.000	5079.000	1400.800	5080.000

1

NC	.080	.050	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.125	17.000	4950.000	5080.000	600.000	700.000	670.000	.000	.000	.000
X2	2377.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1396.500	3220.000	1396.000	3500.000	1394.000	3825.000	1396.000	4185.000	1396.500	4235.000
GR	1396.000	4330.000	1395.000	4350.000	1396.000	4370.000	1398.000	4470.000	1396.000	4590.000
GR	1395.000	4625.000	1396.000	4700.000	1396.000	4780.000	1392.000	4950.000	1390.500	5000.000
GR	1392.000	5080.000	1396.000	5215.000	.000	.000	.000	.000	.000	.000
NC	.080	.050	.050	.100	.300	.000	.000	.000	.000	.000
X1	2.242	18.000	4970.000	5025.000	580.000	590.000	620.000	.000	.000	.000

GR	1400.000	3930.000	1397.000	4220.000	1399.500	4490.000	1333.500	4660.000	1399.500	4850.000
GR	1396.000	4970.000	1394.000	5000.000	1396.000	5024.000	1336.000	5025.000	1396.000	5110.000
GR	1394.000	5150.000	1396.000	5185.000	1397.000	5220.000	1336.000	5275.000	1395.000	5300.000
GR	1336.000	5410.000	1400.000	5725.000	1404.000	5985.000	.000	.000	.000	.000
X1	2.367	17.000	4970.000	5030.000	640.000	600.000	630.000	.000	.000	.000
GR	1405.000	4315.000	1404.000	4550.000	1401.000	4610.000	1404.000	4650.000	1405.000	4810.000
GR	1404.000	4880.000	1400.000	4970.000	1399.000	5000.000	1400.000	5030.000	1404.000	5140.000
GR	1400.000	5350.000	1400.000	5390.000	1403.000	5425.000	1400.000	5460.000	1399.000	5500.000
GR	1400.000	5530.000	1403.000	5950.000	.000	.000	.000	.000	.000	.000
NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.436	14.000	4635.000	5070.000	590.000	400.000	400.000	.000	.000	.000
GR	1403.500	4635.000	1408.000	4820.000	1406.000	4870.000	1405.500	5000.000	1410.500	5070.000
GR	1410.500	5200.000	1410.000	5440.000	1408.000	5450.000	1403.600	5455.000	1405.600	5495.000
GR	1408.000	5500.000	1403.000	5520.000	1408.500	6150.000	1412.000	6800.000	.000	.000
X1	2.580	10.000	4575.000	5180.000	930.000	330.000	1270.000	.000	.000	.000
GR	1412.000	3460.000	1411.500	3715.000	1410.000	4100.000	1410.000	4575.000	1408.000	5000.000
GR	1409.500	5180.000	1408.000	5320.000	1408.000	5400.000	1409.000	5950.000	1412.000	6045.000
X1	2.828	12.000	4980.000	5070.000	1335.000	1290.000	1305.000	.000	.000	.000
GR	1420.000	3750.000	1417.000	3950.000	1419.000	4210.000	1416.500	4535.000	1417.000	4810.000
GR	1416.000	4980.000	1415.000	5000.000	1416.000	5070.000	1418.000	5330.000	1418.000	5540.000
GR	1420.000	5670.000	1421.000	5680.000	.000	.000	.000	.000	.000	.000
NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	3.169	10.000	4820.000	5050.000	1820.000	1735.000	1800.000	.000	.000	.000
GR	1432.000	4000.000	1428.000	4390.000	1427.000	4570.000	1427.500	4820.000	1425.500	5000.000
GR	1427.500	5050.000	1427.000	5160.000	1427.000	5390.000	1428.000	5580.000	1432.000	6555.000
X1	3.447	11.000	4985.000	5020.000	1445.000	1420.000	1470.000	.000	.000	.000
X2	2556.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1437.500	4364.000	1436.500	4365.000	1435.000	4540.000	1436.000	4860.000	1436.000	4985.000
GR	1433.000	5000.000	1436.000	5020.000	1436.500	5100.000	1436.000	5210.000	1436.000	5530.000
GR	1440.000	5950.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	3.676	15.000	4980.000	5025.000	1230.000	1190.000	1210.000	.000	.000	.000
GR	1445.000	4100.000	1444.000	4175.000	1443.000	4355.000	1442.500	4600.000	1442.000	4735.000
GR	1440.000	4980.000	1439.000	5000.000	1440.000	5025.000	1441.000	5065.000	1440.000	5105.000
GR	1440.000	5140.000	1442.000	5350.000	1442.000	5790.000	1443.000	6200.000	1444.000	6360.000

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NC	.070	.060	.050	.000	.000	.000	.000	.000	.000	.000
X1	3.880	14.000	4900.000	5660.000	1040.000	1060.000	1075.000	.000	.000	.000
X2	2340.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1453.000	3830.000	1452.000	3715.000	1449.000	4400.000	1448.000	4620.000	1449.000	4750.000
GR	1450.000	4900.000	1448.000	4960.000	1446.000	5000.000	1448.000	5185.000	1448.000	5230.000
GR	1446.000	5450.000	1446.000	5635.000	1448.000	5660.000	1452.000	5730.000	.000	.000
X1	4.080	17.000	4770.000	5420.000	1060.000	1040.000	1055.000	.000	.000	.000
GR	1457.000	3930.000	1456.000	4120.000	1455.500	4335.000	1456.000	4600.000	1454.000	4770.000
GR	1452.000	5000.000	1456.000	5420.000	1458.000	5470.000	1456.000	5550.000	1455.500	5660.000
GR	1456.000	5920.000	1456.000	6050.000	1452.100	6165.000	1452.100	6190.000	1452.100	6210.000
GR	1456.000	6220.000	1457.000	6330.000	.000	.000	.000	.000	.000	.000
X1	4.254	18.000	4850.000	5115.000	895.000	935.000	920.000	.000	.000	.000
GR	1464.000	3585.000	1463.000	4620.000	1460.000	4850.000	1456.000	4985.000	1455.500	5000.000
GR	1456.000	5015.000	1460.000	5115.000	1460.500	5285.000	1464.000	5490.000	1465.000	5580.000
GR	1464.000	5800.000	1460.000	6050.000	1456.000	6080.000	1455.600	6090.000	1456.000	6110.000
GR	1460.000	6130.000	1461.000	6160.000	1462.000	6310.000	.000	.000	.000	.000
NC	.070	.000	.050	.000	.000	.000	.000	.000	.000	.000

X1	4.435	16.000	4910.000	5070.000	960.000	1060.000	955.000	.000	.000	.000
GR	1470.000	4640.000	1468.000	4760.000	1464.000	4910.000	1463.500	5000.000	1464.000	5070.000
GR	1468.000	5150.000	1471.000	5585.000	1468.000	5860.000	1460.000	5940.000	1468.000	6035.000
GR	1469.000	6070.000	1468.000	6120.000	1464.000	6170.000	1463.600	6190.000	1464.000	6200.000
GR	1468.000	6220.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]H	7.000	.045	4620.000	.055	5110.000	.050	5870.000	.060	6340.000	.045
NH	6710.000	.035	6820.000	.050	6915.000	.000	.000	.000	.000	.000
X1	4.636	21.000	4940.000	5110.000	1035.000	1035.000	1065.000	.000	.000	.000
GR	1476.000	4620.000	1472.000	4760.000	1472.000	4840.000	1473.000	4890.000	1472.000	4940.000
GR	1468.500	5000.000	1472.000	5110.000	1474.000	5210.000	1474.000	5460.000	1476.000	5560.000
GR	1477.000	5730.000	1476.000	5870.000	1472.500	6070.000	1475.000	6340.000	1474.000	6525.000
GR	1474.000	6710.000	1472.000	6820.000	1472.000	6850.000	1476.000	6880.000	1480.000	6900.000
GR	1484.000	6915.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	6.000	.080	4340.000	.040	5610.000	.065	6000.000	.050	6735.000	.065
NH	7510.000	.035	7770.000	.000	.000	.000	.000	.000	.000	.000
X1	4.841	23.000	4955.000	5050.000	1100.000	800.000	1100.000	.000	.000	.000
GR	1482.000	4340.000	1480.000	4655.000	1478.000	4955.000	1476.000	5000.000	1479.000	5050.000
GR	1480.000	5370.000	1480.500	5400.000	1480.000	5430.000	1478.000	5535.000	1480.000	5610.000
GR	1482.000	5920.000	1480.000	6000.000	1478.000	6250.000	1479.000	6640.000	1480.000	6735.000
GR	1481.000	6840.000	1480.000	6940.000	1479.000	7070.000	1476.000	7510.000	1476.000	7600.000
GR	1480.000	7700.000	1484.000	7730.000	1485.000	7770.000	.000	.000	.000	.000
NH	6.000	.060	4710.000	.050	5820.000	.040	6385.000	.080	7130.000	.050
NH	7770.000	.055	8330.000	.000	.000	.000	.000	.000	.000	.000
X1	5.061	16.000	4910.000	7270.000	1185.000	750.000	1160.000	.000	.000	.000
GR	1488.000	4710.000	1488.000	4720.000	1488.500	4745.000	1488.000	4910.000	1487.000	5000.000
GR	1488.000	5050.000	1488.500	5160.000	1488.000	5275.000	1484.000	5820.000	1483.000	5900.000
GR	1486.000	6385.000	1484.000	7130.000	1482.000	7270.000	1483.000	7770.000	1482.000	7870.000
GR	1485.000	8330.000	.000	.000	.000	.000	.000	.000	.000	.000

NH	6.000	.050	4840.000	.065	4980.000	.055	5045.000	.070	5425.000	.050
NH	6190.000	.050	7810.000	.000	.000	.000	.000	.000	.000	.000
X1	5.236	17.000	4980.000	7650.000	935.000	930.000	925.000	.000	.000	.000
GR	1493.000	4840.000	1493.000	4845.000	1492.000	4980.000	1491.000	5000.000	1492.000	5015.000
GR	1493.000	5045.000	1492.000	5070.000	1490.000	5425.000	1490.000	5735.000	1492.000	6190.000
GR	1488.000	6890.000	1488.000	7335.000	1487.000	7540.000	1488.000	7650.000	1492.000	7760.000
GR	1494.000	7790.000	1498.000	7810.000	.000	.000	.000	.000	.000	.000
NH	7.000	.050	4140.000	.060	4940.000	.050	5035.000	.070	6150.000	.035
NH	6950.000	.045	7075.000	.050	7510.000	.000	.000	.000	.000	.000
X1	5.491	23.000	4940.000	5015.000	1310.000	1535.000	1345.000	.000	.000	.000
GR	1502.000	4140.000	1500.000	4360.000	1499.000	4450.000	1500.000	4510.000	1500.000	4650.000
GR	1499.000	4940.000	1496.000	4980.000	1495.500	5000.000	1496.000	5015.000	1498.000	5035.000
GR	1498.000	5310.000	1499.000	5635.000	1500.000	6150.000	1496.000	6760.000	1496.000	6790.000
GR	1496.000	6950.000	1496.000	6970.000	1498.000	7075.000	1496.000	7205.000	1496.000	7360.000
GR	1496.000	7445.000	1496.000	7480.000	1500.000	7510.000	.000	.000	.000	.000
NH	6.000	.060	3840.000	.050	4960.000	.055	5030.000	.065	5335.000	.040
NH	6050.000	.045	6700.000	.000	.000	.000	.000	.000	.000	.000
X1	5.694	12.000	4960.000	5050.000	1075.000	1540.000	1075.000	.000	.000	.000
X2	2300.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	1509.000	3840.000	1508.000	4025.000	1507.000	4550.000	1507.000	4900.000	1506.000	4960.000
[illegible]R	1504.500	5000.000	1505.000	5050.000	1506.000	5335.000	1504.500	5600.000	1506.000	6050.000
GR	1505.000	6330.000	1507.000	6700.000	.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.000	.000	.000	.000	.000	.000	.000
X1	5.853	16.000	4990.000	5020.000	775.000	600.000	840.000	.000	.000	.000
GR	1513.000	3770.000	1512.000	3960.000	1511.500	4125.000	1512.000	4260.000	1512.500	4430.000
GR	1512.000	4550.000	1511.000	4630.000	1508.000	4990.000	1507.500	5000.000	1508.000	5020.000
GR	1510.000	5075.000	1509.000	5230.000	1508.000	5520.000	1507.500	5725.000	1508.000	5840.000

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 GR   1510.500   5900.000      .000      .000      .000      .000      .000      .000      .000      .000

 X1      6.009     16.000   4980.000   5020.000    740.000    770.000    820.000      .000      .000      .000
 X2   2429.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1517.000   3700.000   1516.000   4080.000   1513.500   4340.000   1514.000   4530.000   1512.000   4750.000
 GR   1511.100   4760.000   1512.000   4790.000   1514.000   4875.000   1512.000   4960.000   1511.000   5000.000
 GR   1512.000   5020.000   1516.000   5135.000   1516.000   5170.000   1516.000   5220.000   1512.000   5485.000
 GR   1515.000   5620.000      .000      .000      .000      .000      .000      .000      .000      .000

 NC       .080       .080      .050      .000      .000      .000      .000      .000      .000      .000
 X1      6.196     17.000   4965.000   5025.000    875.000   1010.000    900.000      .000      .000      .000
 GR   1524.000   3450.000   1521.000   3750.000   1521.000   4190.000   1521.000   4475.000   1520.000   4575.000
 GR   1519.000   4610.000   1520.000   4650.000   1521.000   4900.000   1520.000   4955.000   1517.000   5000.000
 GR   1520.000   5025.000   1520.500   5130.000   1520.000   5260.000   1519.500   5300.000   1520.000   5325.000
 GR   1523.500   5735.000   1524.000   6580.000      .000      .000      .000      .000      .000      .000

 NC       .080       .110      .070      .000      .000      .000      .000      .000      .000      .000
 X1      6.604     15.000   4980.000   5020.000    800.000   1000.000   1005.000      .000      .000      .000
 GR   1533.000   3800.000   1532.000   4130.000   1531.100   4480.000   1532.000   4750.000   1532.000   4870.000
 GR   1532.000   4980.000   1531.000   5000.000   1532.000   5020.000   1532.500   5140.000   1532.000   5270.000
 GR   1531.000   5340.000   1532.000   5380.000   1532.000   5650.000   1531.000   5870.000   1535.000   6110.000
1
  05/05/88    19:23:00                                                                                    PAGE    6


 NC       .070       .070      .050      .000      .000      .000      .000      .000      .000      .000
 X1      6.704      7.000   4960.000   5070.000    540.000    520.000    525.000      .000      .000      .000
 X2   2268.000       .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1536.500   4320.000   1534.000   4960.000   1533.000   5000.000   1535.000   5070.000   1536.000   5385.000
 GR   1535.000   5490.000   1536.500   5590.000      .000      .000      .000      .000      .000      .000

 X1      6.850     10.000   4980.000   5020.000   1360.000   1360.000   1300.000      .000      .000      .000
 GR   1542.000   4680.000   1540.000   4740.000   1538.000   4830.000   1538.000   4845.000   1539.000   4910.000
 GR   1538.000   4980.000   1537.000   5000.000   1538.000   5020.000   1540.000   5325.000   1542.000   5360.000

 X1      6.874      8.000   4950.000   5050.000    125.000    125.000    125.000      .000      .000      .000
 GR   1543.000   4650.000   1540.000   4720.000   1538.000   4950.000   1537.500   5000.000   1538.000   5050.000
 GR   1540.000   5270.000   1540.000   5360.000   1543.000   5420.000      .000      .000      .000      .000
 EJ       .000       .000      .000      .000      .000      .000      .000      .000      .000      .000
1
  05/05/88    19:23:00                                                                                    PAGE    7


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     COARR     TOPWID    ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000

 3265 DIVIDED FLOW

      .00      2.39  1335.39       .00  1335.00  1335.46       .06       .00       .00  1333.00
    2300.      591.     1709.       0.      375.     786.       0.        0.        0.   1338.00
      .00      1.58      2.17       .00      .080     .070     .090      .000  1333.00  4060.68
  .006158        0.        0.        0.        0        0        5       .00   932.88  5237.63
0
 *SECNO  .214

 3265 DIVIDED FLOW
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      .21     2.03  1344.03      .00      .00  1344.12      .09      8.65      .01  1344.50
    2300.      290.     1680.      330.      241.      623.      274.      30.      30.   1343.00
      .14     1.20      2.69     1.21     .080      .070      .080     .000  1342.00  4418.55
   .009911    1030.     1140.    1200.        4         0         0      .00  1416.18  5682.18
0
 *SECNO  .384
      .38     2.45  1349.95      .00      .00  1350.00      .05      5.87      .00  1348.50
    2300.       95.      877.    1329.       92.      408.      892.      55.      56.   1348.50
      .28     1.03      2.15     1.49     .080      .070      .080     .000  1347.50  4793.70
   .004756     915.      890.     870.        5         0         0      .00  1104.14  5897.84
0
 *SECNO  .551
      .55     2.00  1353.00      .00      .00  1353.03      .03      3.03      .00  1354.00
    2300.        0.     1510.     790.        0.      992.      643.      85.      77.   1351.00
      .45      .00      1.52     1.23     .080      .070      .080     .000  1351.00  4766.95
   .002709     910.      880.     840.        4         0         0      .00  1091.62  5858.57
0
 *SECNO  .729

 3265 DIVIDED FLOW

      .73     2.63  1358.63      .00      .00  1358.88      .25      5.78      .07  1360.00
    2300.        0.     2237.      63.        0.      548.      46.     109.      95.   1359.50
      .51      .00      4.08     1.37     .080      .070      .080     .000  1356.00  4881.99
   .025784     980.      940.     915.        3         0         0      .00   566.58  5668.80
0
1
 05/05/88    19:23:00                                                                    PAGE    8

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 *SECNO  .905
      .90     2.19  1365.19      .00      .00  1365.23      .04      6.33      .02  1364.00
    2300.      331.     1918.      51.      347.     1151.      78.     132.     114.   1364.00
      .68      .95      1.67      .65     .090      .070      .090     .000  1363.00  4538.23
   .003058    1040.      930.     840.        6         0         0      .00  1167.92  5706.15
0
 *SECNO 1.140

 3265 DIVIDED FLOW

     1.14     1.45  1370.95      .00      .00  1371.01      .06      5.78      .01  1369.50
    2300.      437.     1638.     226.      286.      747.     256.     174.     150.   1370.00
      .86     1.53      2.19      .88     .090      .070      .090     .000  1369.50  4524.67
   .007693    1400.     1240.    1050.        4         0         0      .00  1413.76  6172.22
0
 *SECNO 1.371
     1.37     2.16  1378.06      .00      .00  1378.11      .04      7.09      .00  1380.00
    2300.        0.      654.    1646.        0.      415.      977.     218.     132.   1378.00
     1.06      .00      1.57     1.68     .090      .070      .090     .000  1375.90  4362.84
   .004832     870.     1220.    1200.        3         0         0      .00   969.68  5832.52
0
 *SECNO 1.517
     1.52     3.39  1382.39      .00      .00  1382.60      .21      4.44      .05  1380.00
    2300.      683.      865.     782.      293.      173.     264.     229.     194.   1380.00
     1.12     2.23      5.00     2.96     .080      .050      .060     .000  1379.00  4784.49
   .006892     850.      770.     760.        3         0         0      .00   403.20  5187.69
0
 *SECNO 1.634
     1.63     3.64  1385.14      .00      .00  1385.25      .11      2.64      .01  1382.50
    2300.      690.     1078.     602.      415.      313.     332.     241.     201.   1382.50
```

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     1.19     1.49     3.44     1.81     .080     .050     .060     .000  1381.50  4705.56
   .002921     620.     615.     610.        3        0        0      .00   580.85  5286.81
0
 *SECNO 1.731

 3265 DIVIDED FLOW

     1.73     3.54  1386.54      .00      .00  1386.64      .10     1.39      .00  1384.00
    2300.     871.     1008.     421.     648.     305.     212.     253.     208.   1384.00
     1.25     1.35     3.31     1.98     .080     .050     .060     .000  1383.00  3358.41
   .002804     450.     515.     480.        1        0        0      .00   700.58  5166.12
0
1
 05/05/88    19:23:00                                                                    PAGE    9


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 CCHV=    .300 CEHV=    .500
 *SECNO 1.851

 3265 DIVIDED FLOW

     1.85     3.82  1388.82      .00      .00  1389.01      .19     2.33      .05  1388.00
    2300.     422.     1747.     131.     352.     441.     83.     267.     219.   1388.00
     1.30     1.20     3.96     1.59     .070     .050     .060     .000  1385.00  3295.75
   .005770     570.     595.     675.        3        0        0      .00   905.84  5170.58
0
 *SECNO 1.984

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1399.50 ELREA=     1399.50

     1.98     2.23  1392.03      .00      .00  1392.69      .66     3.44      .24  1400.10
    2300.       0.     2300.       0.       0.     352.       0.     277.     227.   1400.10
     1.33      .00     6.53      .00     .025     .025     .025     .000  1389.00  4920.78
   .004307     600.     700.     800.        4        0        0      .00   158.43  5079.22
0

 SPECIAL BRIDGE

 SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.25     1.60     2.60      .00    158.00     5.00   1472.50     .00   1390.00   1389.80

 *SECNO 1.993
 CLASS A LOW FLOW

 3420 BRIDGE W.S.=   1391.97 BRIDGE VELOCITY=,      7.27      CALCULATED CHANNEL AREA=,      301.

  EGPRS     EGLWC     H3      QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD
                                                          AREA
      .00  1392.88     .19       0.     2300.     1473.     1454.     1399.50   1400.80


 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1400.80 ELREA=     1400.80

     1.99     2.22  1392.22      .00      .00  1392.88      .67      .20      .00  1400.60
    2300.       0.     2300.       0.       0.     351.       0.     277.     227.   1400.80
     1.33      .00     6.56      .00     .000     .025     .000     .000  1390.00  4920.79
   .004360      48.      48.      48.        0        0        0      .00   158.41  5079.21
0
1
```

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 2.125

1645 INT SEC ADDED BY RAISING SEC      2.13,   -.250FT AND MULTIPLYING BY   1.420

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

     1.01     3.02  1394.07      .00      .00  1394.22      .15     1.18      .15  1391.75
    2339.     187.    1924.     228.     186.     566.     128.     282.     230.   1391.75
     1.36     1.00     3.40     1.78     .080     .050     .050     .000  1390.25  4006.08
  .002941     300.     335.     350.        3        0        0      .00   583.45  5971.25
0

1645 INT SEC ADDED BY RAISING SEC      1.01,    .250FT AND MULTIPLYING BY    .704

3265 DIVIDED FLOW

     2.13     4.48  1394.98      .00      .00  1395.14      .16      .92      .00  1392.00
    2377.     326.    1757.     294.     351.     404.     149.     289.     235.   1392.00
     1.39      .93     3.63     1.97     .080     .050     .050     .000  1390.50  3666.53
  .002581     300.     335.     350.        2        0        0      .00   690.87  5180.41
0
 CCHV=    .100 CEHV=    .300
 *SECNO 2.242

3265 DIVIDED FLOW

     2.24     3.22  1397.22      .00      .00  1397.38      .16     2.24      .00  1396.00
    2377.      28.     464.    1885.      31.     121.     628.     301.     244.   1396.00
     1.44      .90     3.02     3.00     .080     .050     .050     .000  1394.00  4138.19
  .005781     580.     620.     590.        3        0        0      .00   624.70  5506.51
0
 *SECNO 2.367

3265 DIVIDED FLOW

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

     2.37     3.53  1401.53      .00      .00  1401.77      .24     4.37      .03  1400.00
    2377.      42.     793.    1542.      31.     192.     489.     311.     252.   1400.00
     1.49     1.36     5.22     3.16     .080     .050     .050     .000  1398.00  4599.38
  .008967     640.     650.     600.        4        0        0      .00   594.73  5744.36
0
 *SECNO 2.436
```

3263 DIVIDED FLOW

2.44	1.98	1407.48	.00	.00	1408.17	.69	6.26	.13	1409.50
2377.	0.	1961.	416.	0.	282.	83.	316.	256.	1410.50
1.50	.00	6.96	5.01	.080	.050	.080	.000	1405.50	4032.74
.033605	590.	400.	400.	3	0	0	.00	243.01	5498.94

*SECNO 2.580

1645 INT SEC ADDED BY RAISING SEC 2.58, -1.250FT AND MULTIPLYING BY .720

3301 HV CHANGED MORE THAN HVINS

1.01	2.77	1409.52	.00	.00	1409.54	.02	1.31	.07	1408.75
2377.	144.	1104.	1129.	321.	806.	1176.	328.	264.	1408.25
1.62	.45	1.37	.96	.080	.050	.080	.000	1406.75	3777.64
.000935	415.	635.	165.	4	0	0	.00	1487.16	5264.80

0

1645 INT SEC ADDED BY RAISING SEC 1.01, 1.250FT AND MULTIPLYING BY 1.388

2.58	2.06	1410.06	.00	.00	1410.09	.03	.54	.00	1410.00
2377.	4.	1070.	1303.	29.	687.	1087.	345.	279.	1409.50
1.70	.14	1.56	1.20	.080	.050	.080	.000	1408.00	4084.37
.002321	415.	635.	165.	3	0	0	.00	1834.59	5918.96

0

*SECNO 2.828

1645 INT SEC ADDED BY RAISING SEC 2.83, -3.500FT AND MULTIPLYING BY 2.346

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.01	1.84	1413.34	1413.34	.00	1413.66	.32	3.37	.09	1412.50
2377.	356.	1821.	200.	293.	355.	135.	364.	305.	1412.50
1.74	1.21	5.12	1.48	.080	.050	.080	.000	1411.50	5931.73
.020092	668.	653.	645.	4	11	0	.00	1691.13	7960.19

0

1645 INT SEC ADDED BY RAISING SEC 1.01, 3.500FT AND MULTIPLYING BY .339

3263 DIVIDED FLOW

2.83	3.15	1418.15	.00	.00	1418.22	.07	4.54	.02	1416.00
2377.	1216.	796.	366.	969.	238.	329.	382.	329.	1416.00
1.94	1.25	3.34	1.11	.080	.050	.080	.000	1415.00	3373.62
.003458	668.	653.	645.	5	0	0	.00	1453.70	5549.47

0

*SECNO 3.169

3.17	2.49	1427.93	.00	.00	1428.14	.15	9.89	.02	1427.50
2377.	385.	1337.	655.	272.	342.	401.	434.	383.	1427.50
2.01	1.41	3.91	1.63	.080	.050	.080	.000	1425.50	4349.15

```
  .010170    1820.    1800.    1735.       5       0       0     .00  1185.57  5577.73
0
 *SECNO 3.447
     3.45     4.15  1437.15     .00     .00  1437.21     .06    9.06     .01  1436.00
    2556.    1467.     344.     745.    915.      93.    607.    478.     424.  1436.00
     2.24     1.60     3.71     1.23    .080     .050    .080    .000  1433.00  4364.35
  .004346    1445.    1470.    1420.       6       0       0     .00  1386.09  5650.44
0
 *SECNO 3.676
     3.68     3.55  1442.55     .00     .00  1442.64     .09    5.42     .01  1440.00
    2556.     658.     580.    1318.    417.     137.    874.    520.     462.  1440.00
     2.39     1.58     4.24     1.51    .080     .050    .080    .000  1439.00  4579.66
  .004619    1230.    1210.    1190.       4       0       0     .00  1432.35  6012.02
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       SLOPE    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 3.880

 3265 DIVIDED FLOW

     3.88     2.03  1448.05     .00     .00  1448.16     .11    5.52     .01  1450.00
    2340.       3.     2337.      0.     13.     800.      0.    548.     491.  1448.00
     2.51      .24     2.66     .02    .070     .050    .060    .000  1446.00  4393.07
  .005904    1040.    1075.    1060.       4       0       0     .00   937.07  5661.00

 *SECNO 4.080

 3265 DIVIDED FLOW

     4.08     2.43  1454.43     .00     .00  1454.55     .12    6.38     .00  1454.00
    2340.       5.     1790.    545.      8.     637.    191.    569.     510.  1456.00
     2.61      .60     2.01     2.05    .070     .050    .060    .000  1452.00  4733.84
  .006221    1060.    1055.    1040.       5       0       0     .00   640.36  6215.56
0
 *SECNO 4.254

 3265 DIVIDED FLOW

     4.25     4.06  1459.56     .00     .00  1459.75     .19    5.18     .02  1460.00
    2340.       0.     1655.    685.      0.     487.    192.    585.     520.  1460.00
     2.68      .00     3.40     3.57    .070     .050    .060    .000  1455.50  4864.52
  .005077     895.     920.     935.       4       0       0     .00   313.72  6127.80
0
 *SECNO 4.435

 3265 DIVIDED FLOW

     4.43     2.55  1466.05     .00     .00  1466.37     .32    6.58     .04  1464.00
    2340.     162.     1829.    348.     78.     367.    145.    599.     527.  1464.00
     2.75     2.09     4.99     2.40    .070     .050    .080    .000  1463.50  4833.45
  .009330     960.     955.    1060.       4       0       0     .00   343.10  6210.21
0
 1490 NH CARD USED
 *SECNO 4.636
1
 05/05/88    19:23:00                                                                PAGE   14
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW  203 AVE EXTENSION.

     4.64     4.61  1473.11      .00      .00  1473.29      .18     6.91      .01  1472.00
    2340.      288.     1837.     214.     171.     486.     133.     616.     539.  1472.00
     2.83     1.68     3.78     1.61     .055     .055     .046     .000  1464.50  4721.15
  .004825    1035.     1065.    1035.        4        0        0      .00   644.42  6058.32
0
 1490 NH CARD USED
 *SECNO 4.841

 3265 DIVIDED FLOW

     4.84     2.21  1478.21      .00      .00  1478.36      .15     5.06      .00  1478.00
    2340.       2.      367.    1971.       3.     115.     633.     633.     554.  1478.00
     2.92      .62     3.20     3.11     .040     .040     .045     .000  1476.00  4923.87
  .005787    1100.     1100.     800.        4        0        0      .00   753.84  7655.19
0
 1490 NH CARD USED
 *SECNO 5.061

 3265 DIVIDED FLOW

     5.06     1.57  1483.57      .00      .00  1483.67      .09     5.30      .01  1488.00
    2340.       0.      246.    2094.       0.     126.     832.     649.     571.  1482.00
     3.01      .00     1.95     2.52     .040     .042     .052     .000  1482.00  5054.30
  .007582    1185.     1160.     750.        5        0        0      .00  1088.98  8110.93
0
 1490 NH CARD USED
 *SECNO 5.236
     5.24     2.05  1489.05      .00      .00  1489.13      .07     5.46      .00  1492.00
    2340.       0.     2320.      20.       0.    1056.      15.     670.     593.  1488.00
     3.13      .00     2.20     1.33     .040     .050     .050     .000  1487.00  6705.49
  .004707     935.      925.     930.        5        0        0      .00   973.50  7678.99
0
 1490 NH CARD USED
 *SECNO 5.491
1
 05/05/88    19:23:00                                                                PAGE   15


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

     5.49     1.65  1497.15      .00      .00  1497.28      .13     8.14      .02  1499.00
    2340.       0.      157.    2183.       0.      58.     747.     761.     623.  1496.00
     3.27      .00     2.72     2.92     .040     .050     .042     .000  1495.50  4964.68
  .006966    1310.     1345.    1535.        5        0        0      .00   865.60  7488.62
0
 1490 NH CARD USED
 *SECNO 5.694
     5.69     1.60  1506.10      .00      .00  1506.16      .06     8.87      .01  1506.00
    2300.       0.      211.    2089.       0.     101.    1057.     735.     656.  1505.00
     3.49      .29     2.08     1.98     .050     .055     .043     .000  1504.50  4954.07
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  .005054    1075.    1075.    1540.       4        0        0      .00  1579.19  6533.27
0
 *SECNO 5.853

 3265 DIVIDED FLOW
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211TH AVE EXTENSION

```
     5.85     2.10  1509.60      .00      .00  1509.65      .05     3.49      .00  1508.00
    2300.     155.     195.    1950.     154.      56.    1223.     753.     685.  1508.00
     3.58     1.01     3.52     1.59     .100     .050     .100     .000  1507.50  4797.78
  .006157     775.     840.     600.       4        0        0      .00  1038.85  5878.44
0
 *SECNO 6.009

 3265 DIVIDED FLOW

     6.01     3.35  1514.35      .00      .00  1514.44      .10     4.78      .01  1512.00
    2429.    1158.     534.     736.     808.     114.     565.     779.     705.  1512.00
     3.68     1.43     4.71     1.30     .100     .050     .100     .000  1511.00  4252.90
  .006259     740.     820.     770.        3        0        0      .00  1250.19  5746.02
0
 *SECNO 6.196
     6.20     4.22  1521.22      .00      .00  1521.41      .19     6.94      .03  1520.00
    2429.     841.     878.     710.     593.     163.     412.     808.     736.  1520.00
     3.77     1.42     5.37     1.73     .080     .050     .080     .000  1517.00  3727.77
  .008657     875.     990.    1010.        5        0        0      .00  1740.41  5468.18
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XML       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     COARR     TOPWID    ENDST
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*SECNO 6.604 Parton Rd.

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 3265 DIVIDED FLOW

     6.60     1.46  1532.46      .00      .00  1532.52      .06    11.10      .01  1532.00
    2429.    1504.     106.     819.     704.      38.     557.     833.     774.  1532.00
     3.90     2.14     2.76     1.47     .080     .070     .110     .000  1531.00  3978.54
  .017925     800.    1085.    1000.        6        0        0      .00  1958.50  5957.54
0
 *SECNO 6.704
     6.70     3.29  1536.29      .00      .00  1536.37      .08     3.85      .01  1534.00
    2268.     949.     901.     418.     669.     271.     385.     849.     793.  1535.00
     3.97     1.42     3.32     1.09     .070     .050     .070     .000  1533.00  4374.68
  .003742     540.     525.     520.        4        0        0      .00  1200.83  5575.71
0
 *SECNO 6.850
     6.85     3.72  1540.72      .00      .00  1540.80      .08     4.42      .00  1538.00
    2268.     942.     453.     873.     505.     129.     531.     888.     821.  1538.00
     4.15     1.87     3.51     1.64     .070     .050     .070     .000  1537.00  4718.20
  .002927    1360.    1300.    1360.        4        0        0      .00   619.52  5337.72
0
 *SECNO 6.874 Dirksbirds -
     6.87     3.51  1541.01      .00      .00  1541.08      .06     .28      .00  1538.00
    2268.     662.     892.     714.     475.     326.     544.     891.     823.  1538.00
     4.17     1.39     2.74     1.31     .070     .050     .070     .000  1537.50  4696.39
  .001752     125.     125.     125.        2        0        0      .00   683.84  5380.23
0
1
PROFILE FOR STREAM  CAP FLOODPLAIN-#2 WEST
```

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1300.	1350.	1400.	1450.	1500.	1550.	1600.	1650.	1700.	1750.
SECNO	CUMDIS									
.00	0. C	ER .	.	.	.	.	.	.	.	.
	100. C	ER .	.	.	.	.	.	.	.	.
	200. C	ER .	.	.	.	.	.	.	.	.
	300. C	IE .	.	.	.	.	.	.	.	.
	400. C	IE .	.	.	.	.	.	.	.	.
	500. C	IE .	.	.	.	.	.	.	.	.
	600. C	E .	.	.	.	.	.	.	.	.
	700. C	E .	.	.	.	.	.	.	.	.
	800. C	EM.	.	.	.	.	.	.	.	.
	900. C	EM.	.	.	.	.	.	.	.	.
	1000. C	IE.	.	.	.	.	.	.	.	.
	1100. C	IE.	.	.	.	.	.	.	.	.
.21	1200. C	IE.	.	.	.	.	.	.	.	.
	1300. C	E.	.	.	.	.	.	.	.	.
	1400. C	E.	.	.	.	.	.	.	.	.
	1500. C	E.	.	.	.	.	.	.	.	.
	1600. C	EM	.	.	.	.	.	.	.	.
	1700. C	EM	.	.	.	.	.	.	.	.
	1800. C	IE	.	.	.	.	.	.	.	.
	1900. C	IE	.	.	.	.	.	.	.	.
	2000. C	IE	.	.	.	.	.	.	.	.
.38	2100. C	E	.	.	.	.	.	.	.	.
	2200. C	EM	.	.	.	.	.	.	.	.
	2300. C	EM	.	.	.	.	.	.	.	.
	2400. C	EM	.	.	.	.	.	.	.	.
	2500. C	EM	.	.	.	.	.	.	.	.
	2600. C	EM	.	.	.	.	.	.	.	.
	2700. C	EM	.	.	.	.	.	.	.	.
	2800. C	EL	.	.	.	.	.	.	.	.
	2900. C	IE	.	.	.	.	.	.	.	.
.55	3000. C	IE	.	.	.	.	.	.	.	.
	3100. C	IEM	.	.	.	.	.	.	.	.
	3200. C	IEM	.	.	.	.	.	.	.	.
	3300. C	.EM	.	.	.	.	.	.	.	.
	3400. C	.EM	.	.	.	.	.	.	.	.
	3500. C	.EM	.	.	.	.	.	.	.	.
	3600. C	.EL	.	.	.	.	.	.	.	.
	3700. C	.EL	.	.	.	.	.	.	.	.
	3800. C	.IEM	.	.	.	.	.	.	.	.
.73	3900. C	.IEM	.	.	.	.	.	.	.	.
	4000. C	.IEM	.	.	.	.	.	.	.	.
	4100. C	. EM	.	.	.	.	.	.	.	.
	4200. C	. EM	.	.	.	.	.	.	.	.
	4300. C	. EM	.	.	.	.	.	.	.	.
	4400. C	. EM	.	.	.	.	.	.	.	.
	4500. C	. IEM	.	.	.	.	.	.	.	.
	4600. C	. IEM	.	.	.	.	.	.	.	.
	4700. C	. IEM	.	.	.	.	.	.	.	.
.90	4800. C	. EM	.	.	.	.	.	.	.	.
	4900. C	. EM	.	.	.	.	.	.	.	.
	5000. C	. EM	.	.	.	.	.	.	.	.
	5100. C	. EM	.	.	.	.	.	.	.	.
	5200. C	. EM	.	.	.	.	.	.	.	.
	5300. C	. IE	.	.	.	.	.	.	.	.
	5400. C	. IE	.	.	.	.	.	.	.	.
	5500. C	. IEM	.	.	.	.	.	.	.	.
	5600. C	. IEM	.	.	.	.	.	.	.	.
	5700. C	EM								

	5800.	C	.	EM	.	.	.	.	.	.	.	.	.
	5900.	C	.	EM	.	.	.	.	.	.	.	.	.
	6000.	C	.	EM	.	.	.	.	.	.	.	.	.
1.14	6100.	C	.	EM	.	.	.	.	.	.	.	.	.
	6200.	C	.	EM	.	.	.	.	.	.	.	.	.
	6300.	C	.	EM	.	.	.	.	.	.	.	.	.
	6400.	C	.	IE	.	.	.	.	.	.	.	.	.
	6500.	C	.	IE	.	.	.	.	.	.	.	.	.
	6600.	C	.	IE	.	.	.	.	.	.	.	.	.
	6700.	C	.	E	.	.	.	.	.	.	.	.	.
	6800.	C	.	EM	.	.	.	.	.	.	.	.	.
	6900.	C	.	EM	.	.	.	.	.	.	.	.	.
	7000.	C	.	EM	.	.	.	.	.	.	.	.	.
	7100.	C	.	EL	.	.	.	.	.	.	.	.	.
	7200.	C	.	EL	.	.	.	.	.	.	.	.	.
1.37	7300.	C	.	IE	.	.	.	.	.	.	.	.	.
	7400.	C	.	IE	.	.	.	.	.	.	.	.	.
	7500.	C	.	IE	.	.	.	.	.	.	.	.	.
	7600.	C	.	IE	.	.	.	.	.	.	.	.	.
	7700.	C	.	E	.	.	.	.	.	.	.	.	.
	7800.	C	.	E	.	.	.	.	.	.	.	.	.
	7900.	C	.	EM	.	.	.	.	.	.	.	.	.
	8000.	C	.	EM	.	.	.	.	.	.	.	.	.
1.52	8100.	C	.	WE	.	.	.	.	.	.	.	.	.
	8200.	C	.	IE	.	.	.	.	.	.	.	.	.
	8300.	C	.	IE	.	.	.	.	.	.	.	.	.
	8400.	C	.	IE	.	.	.	.	.	.	.	.	.
	8500.	C	.	IE	.	.	.	.	.	.	.	.	.
	8600.	C	.	IE	.	.	.	.	.	.	.	.	.
1.63	8700.	C	.	IE	.	.	.	.	.	.	.	.	.
	8800.	C	.	IE	.	.	.	.	.	.	.	.	.
	8900.	C	.	IE	.	.	.	.	.	.	.	.	.
	9000.	C	.	IEM	.	.	.	.	.	.	.	.	.
	9100.	C	.	EM	.	.	.	.	.	.	.	.	.
1.73	9200.	C	.	EM	.	.	.	.	.	.	.	.	.
	9300.	C	.	EM	.	.	.	.	.	.	.	.	.
	9400.	C	.	EM	.	.	.	.	.	.	.	.	.
	9500.	C	.	IE	.	.	.	.	.	.	.	.	.
	9600.	C	.	IE	.	.	.	.	.	.	.	.	.
	9700.	C	.	IE	.	.	.	.	.	.	.	.	.
1.85	9800.	C	.	IE	.	.	.	.	.	.	.	.	.
	9900.	C	.	IE	.	.	.	.	.	.	.	.	.
	10000.	C	.	IEM.	.	.	.	.	.	.	.	.	.
	10100.	C	.	IEL.	.	.	.	.	.	.	.	.	.
	10200.	C	.	EL.	.	.	.	.	.	.	.	.	.
	10300.	C	.	ELM	.	.	.	.	.	.	.	.	.
	10400.	C	.	E L	.	.	.	.	.	.	.	.	.
1.98	10500.	C	.	WEL	.	.	.	.	.	.	.	.	.
1.99	10600.	C	.	WEL	.	.	.	.	.	.	.	.	.
	10700.	C	.	IEL	.	.	.	.	.	.	.	.	.
	10800.	C	.	IEM	.	.	.	.	.	.	.	.	.
1.01	10900.	C	.	IE.	.	.	.	.	.	.	.	.	.
	11000.	C	.	IE.	.	.	.	.	.	.	.	.	.
	11100.	C	.	IE.	.	.	.	.	.	.	.	.	.
2.13	11200.	C	.	IE.	.	.	.	.	.	.	.	.	.
	11300.	C	.	IE.	.	.	.	.	.	.	.	.	.
	11400.	C	.	IE.	.	.	.	.	.	.	.	.	.
	11500.	C	.	IEM	.	.	.	.	.	.	.	.	.
	11600.	C	.	EM	.	.	.	.	.	.	.	.	.
	11700.	C	.	EM	.	.	.	.	.	.	.	.	.
2.24	11800.	C	.	EM	.	.	.	.	.	.	.	.	.
	11900.	C	.	IE	.	.	.	.	.	.	.	.	.
	12000.	C	.	IE	.	.	.	.	.	.	.	.	.
	12100.	C	.	IE	.	.	.	.	.	.	.	.	.
	12200.	C	.	IE	.	.	.	.	.	.	.	.	.
	12300.	C	.	IE	.	.	.	.	.	.	.	.	.

	12400.	C	.	EM	.	.	.	.	.	.	.	.
2.37	12500.	C	.	EM	.	.	.	.	.	.	.	.
	12600.	C	.	IE	.	.	.	.	.	.	.	.
	12700.	C	.	IE	.	.	.	.	.	.	.	.
	12800.	C	.	.ER	.	.	.	.	.	.	.	.
2.44	12900.	C	.	.WE	.	.	.	.	.	.	.	.
	13000.	C	.	.IE	.	.	.	.	.	.	.	.
	13100.	C	.	.IE	.	.	.	.	.	.	.	.
	13200.	C	.	.IE	.	.	.	.	.	.	.	.
	13300.	C	.	.IE	.	.	.	.	.	.	.	.
	13400.	C	.	.IE	.	.	.	.	.	.	.	.
1.01	13500.	C	.	.IE	.	.	.	.	.	.	.	.
	13600.	C	.	.IE	.	.	.	.	.	.	.	.
	13700.	C	.	.IE	.	.	.	.	.	.	.	.
	13800.	C	.	.IE	.	.	.	.	.	.	.	.
	13900.	C	.	. E	.	.	.	.	.	.	.	.
	14000.	C	.	. E	.	.	.	.	.	.	.	.
2.58	14100.	C	.	. E	.	.	.	.	.	.	.	.
	14200.	C	.	. EM	.	.	.	.	.	.	.	.
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	14400.	C	.	. EM	.	.	.	.	.	.	.	.
	14500.	C	.	. EM	.	.	.	.	.	.	.	.
	14600.	C	.	. IE	.	.	.	.	.	.	.	.
	14700.	C	.	. IE	.	.	.	.	.	.	.	.
1.01	14800.	.	.	. IE	.	.	.	.	.	.	.	.
	14900.	C	.	. IE	.	.	.	.	.	.	.	.
	15000.	C	.	. EM	.	.	.	.	.	.	.	.
	15100.	C	.	. EM	.	.	.	.	.	.	.	.
	15200.	C	.	. EM	.	.	.	.	.	.	.	.
	15300.	C	.	. EM	.	.	.	.	.	.	.	.
2.03	15400.	C	.	. IE	.	.	.	.	.	.	.	.
	15500.	C	.	. IE	.	.	.	.	.	.	.	.
	15600.	C	.	. IE	.	.	.	.	.	.	.	.
	15700.	C	.	. IE	.	.	.	.	.	.	.	.
	15800.	C	.	. IEM	.	.	.	.	.	.	.	.
	15900.	C	.	. EM	.	.	.	.	.	.	.	.
	16000.	C	.	. EM	.	.	.	.	.	.	.	.
	16100.	C	.	. EM	.	.	.	.	.	.	.	.
	16200.	C	.	. IE	.	.	.	.	.	.	.	.
	16300.	C	.	. IE	.	.	.	.	.	.	.	.
	16400.	C	.	. IE	.	.	.	.	.	.	.	.
	16500.	C	.	. IE	.	.	.	.	.	.	.	.
	16600.	C	.	. IEM	.	.	.	.	.	.	.	.
	16700.	C	.	. EM	.	.	.	.	.	.	.	.
	16800.	C	.	. EM	.	.	.	.	.	.	.	.
	16900.	C	.	. EM	.	.	.	.	.	.	.	.
	17000.	C	.	. EM	.	.	.	.	.	.	.	.
	17100.	C	.	. WE	.	.	.	.	.	.	.	.
3.17	17200.	C	.	. IE	.	.	.	.	.	.	.	.
	17300.	C	.	. IE	.	.	.	.	.	.	.	.
	17400.	C	.	. IEM	.	.	.	.	.	.	.	.
	17500.	C	.	. IEM	.	.	.	.	.	.	.	.
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	17700.	C	.	. EM	.	.	.	.	.	.	.	.
	17800.	C	.	. EM	.	.	.	.	.	.	.	.
	17900.	C	.	. EM	.	.	.	.	.	.	.	.
	18000.	C	.	. IE	.	.	.	.	.	.	.	.
	18100.	C	.	. IE	.	.	.	.	.	.	.	.
	18200.	C	.	. IE	.	.	.	.	.	.	.	.
	18300.	C	.	. IE	.	.	.	.	.	.	.	.
	18400.	C	.	. IE	.	.	.	.	.	.	.	.
	18500.	C	.	. IE	.	.	.	.	.	.	.	.
	18600.	C	.	. E	.	.	.	.	.	.	.	.
3.45	18700.	C	.	. EM	.	.	.	.	.	.	.	.
	18800.	C	.	. IE	.	.	.	.	.	.	.	.
	18900.	C		. IE								

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     19000. C     .     .    IE .     .     .     .     .     .     .     .
     19100. C     .     .    IE .     .     .     .     .     .     .     .
     19200. C     .     .    IE .     .     .     .     .     .     .     .
     19300. C     .     .    IE .     .     .     .     .     .     .     .
     19400. C     .     .    IE .     .     .     .     .     .     .     .
     19500. C     .     .    IE .     .     .     .     .     .     .     .
     19600. C     .     .    IE .     .     .     .     .     .     .     .
     19700. C     .     .     EM.     .     .     .     .     .     .     .
     19800. C     .     .     EM.     .     .     .     .     .     .     .
3.68 19900. C     .     .     IE.     .     .     .     .     .     .     .
     20000. C     .     .     IE.     .     .     .     .     .     .     .
     20100. C     .     .     IE.     .     .     .     .     .     .     .
     20200. C     .     .     IE.     .     .     .     .     .     .     .
     20300. C     .     .     IE.     .     .     .     .     .     .     .
     20400. C     .     .     IEM     .     .     .     .     .     .     .
     20500. C     .     .      EM     .     .     .     .     .     .     .
     20600. C     .     .      EM     .     .     .     .     .     .     .
     20700. C     .     .      EM     .     .     .     .     .     .     .
     20800. C     .     .      EL     .     .     .     .     .     .     .
     20900. C     .     .      IE     .     .     .     .     .     .     .
3.88 21000. C     .     .      IE     .     .     .     .     .     .     .
     21100. C     .     .      IE     .     .     .     .     .     .     .
     21200. C     .     .      IEM    .     .     .     .     .     .     .
     21300. C     .     .      EM     .     .     .     .     .     .     .
     21400. C     .     .      EM     .     .     .     .     .     .     .
     21500. C     .     .      EM     .     .     .     .     .     .     .
     21600. C     .     .      ER     .     .     .     .     .     .     .
     21700. C     .     .      EL     .     .     .     .     .     .     .
     21800. C     .     .      IE     .     .     .     .     .     .     .
     21900. C     .     .      IE     .     .     .     .     .     .     .
     22000. C     .     .      IE     .     .     .     .     .     .     .
4.08 22100. C     .     .      IE     .     .     .     .     .     .     .
     22200. C     .     .      IEM    .     .     .     .     .     .     .
     22300. C     .     .     .EM     .     .     .     .     .     .     .
     22400. C     .     .     .EM     .     .     .     .     .     .     .
     22500. C     .     .     .ER     .     .     .     .     .     .     .
     22600. C     .     .     .ER     .     .     .     .     .     .     .
     22700. C     .     .     .IE     .     .     .     .     .     .     .
     22800. C     .     .     .IE     .     .     .     .     .     .     .
     22900. C     .     .     .IE     .     .     .     .     .     .     .
4.25 23000. C     .     .     .IE     .     .     .     .     .     .     .
     23100. C     .     .     .IEM    .     .     .     .     .     .     .
     23200. C     .     .     .IEM    .     .     .     .     .     .     .
     23300. C     .     .     . EM    .     .     .     .     .     .     .
     23400. C     .     .     . WE    .     .     .     .     .     .     .
     23500. C     .     .     . IE    .     .     .     .     .     .     .
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     23800. C     .     .     . IE    .     .     .     .     .     .     .
4.43 23900. C     .     .     .  EM   .     .     .     .     .     .     .
     24000. C     .     .     .  EM   .     .     .     .     .     .     .
     24100. C     .     .     .  WE   .     .     .     .     .     .     .
     24200. C     .     .     .  IE   .     .     .     .     .     .     .
     24300. C     .     .     .  IE   .     .     .     .     .     .     .
     24400. C     .     .     .  IE   .     .     .     .     .     .     .
     24500. C     .     .     .  IEM  .     .     .     .     .     .     .
     24600. C     .     .     .  IEM  .     .     .     .     .     .     .
     24700. C     .     .     .  IEM  .     .     .     .     .     .     .
     24800. C     .     .     .   EM  .     .     .     .     .     .     .
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4.64 25000. C     .     .     .   IE  .     .     .     .     .     .     .
     25100. C     .     .     .   IE  .     .     .     .     .     .     .
     25200. C     .     .     .   IE  .     .     .     .     .     .     .
     25300. C     .     .     .   IEM .     .     .     .     .     .     .
     25400. C     .     .     .   IEM .     .     .     .     .     .     .
     25500. C                       IEM
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      25600.  C  .  .  .  EM .  .  .  .  .  .  .
      25700.  C  .  .  .  EM .  .  .  .  .  .  .
      25800.  C  .  .  .  EM .  .  .  .  .  .  .
      25900.  C  .  .  .  EM .  .  .  .  .  .  .
      26000.  C  .  .  .  IE .  .  .  .  .  .  .
4.84  26100.  C  .  .  .  IE .  .  .  .  .  .  .
      26200.  C  .  .  .  IE .  .  .  .  .  .  .
      26300.  C  .  .  .  IEM .  .  .  .  .  .  .
      26400.  C  .  .  .  EM .  .  .  .  .  .  .
      26500.  C  .  .  .  EM .  .  .  .  .  .  .
      26600.  C  .  .  .  EM .  .  .  .  .  .  .
      26700.  C  .  .  .  EL .  .  .  .  .  .  .
      26800.  C  .  .  .  EL .  .  .  .  .  .  .
      26900.  C  .  .  .  EL .  .  .  .  .  .  .
      27000.  C  .  .  .  EL .  .  .  .  .  .  .
      27100.  C  .  .  .  IE .  .  .  .  .  .  .
      27200.  C  .  .  .  IE .  .  .  .  .  .  .
5.06  27300.  C  .  .  .  IEL .  .  .  .  .  .  .
      27400.  C  .  .  .  EL .  .  .  .  .  .  .
      27500.  C  .  .  .  EL .  .  .  .  .  .  .
      27600.  C  .  .  .  EL .  .  .  .  .  .  .
      27700.  C  .  .  .  EL .  .  .  .  .  .  .
      27800.  C  .  .  .  EL .  .  .  .  .  .  .
      27900.  C  .  .  .  EL .  .  .  .  .  .  .
      28000.  C  .  .  .  IE .  .  .  .  .  .  .
      28100.  C  .  .  .  IE .  .  .  .  .  .  .
5.24  28200.  C  .  .  .  IEM.  .  .  .  .  .  .
      28300.  C  .  .  .  EL.  .  .  .  .  .  .
      28400.  C  .  .  .  EL.  .  .  .  .  .  .
      28500.  C  .  .  .  EL.  .  .  .  .  .  .
      28600.  C  .  .  .  EL.  .  .  .  .  .  .
      28700.  C  .  .  .  EL.  .  .  .  .  .  .
      28800.  C  .  .  .  IE.  .  .  .  .  .  .
      28900.  C  .  .  .  IE.  .  .  .  .  .  .
      29000.  C  .  .  .  IE.  .  .  .  .  .  .
      29100.  C  .  .  .  EM  .  .  .  .  .  .
      29200.  C  .  .  .  EM  .  .  .  .  .  .
      29300.  C  .  .  .  EL  .  .  .  .  .  .
      29400.  C  .  .  .  EL  .  .  .  .  .  .
5.49  29500.  C  .  .  .  EL  .  .  .  .  .  .
      29600.  C  .  .  .  IE  .  .  .  .  .  .
      29700.  C  .  .  .  IE  .  .  .  .  .  .
      29800.  C  .  .  .  E  .  .  .  .  .  .
      29900.  C  .  .  .  EM  .  .  .  .  .  .
      30000.  C  .  .  .  EM  .  .  .  .  .  .
      30100.  C  .  .  .  EL  .  .  .  .  .  .
      30200.  C  .  .  .  IE  .  .  .  .  .  .
      30300.  C  .  .  .  IE  .  .  .  .  .  .
      30400.  C  .  .  .  .E  .  .  .  .  .  .
      30500.  C  .  .  .  .E  .  .  .  .  .  .
5.69  30600.  C  .  .  .  .E  .  .  .  .  .  .
      30700.  C  .  .  .  .E  .  .  .  .  .  .
      30800.  C  .  .  .  .EM  .  .  .  .  .  .
      30900.  C  .  .  .  .EM  .  .  .  .  .  .
      31000.  C  .  .  .  .IE  .  .  .  .  .  .
      31100.  C  .  .  .  .IE  .  .  .  .  .  .
      31200.  C  .  .  .  .IE  .  .  .  .  .  .
      31300.  C  .  .  .  .IE  .  .  .  .  .  .
5.85  31400.  C  .  .  .  . E  .  .  .  .  .  .
      31500.  C  .  .  .  . E  .  .  .  .  .  .
      31600.  C  .  .  .  . E  .  .  .  .  .  .
      31700.  C  .  .  .  . E  .  .  .  .  .  .
      31800.  C  .  .  .  . EM  .  .  .  .  .  .
      31900.  C  .  .  .  . WE  .  .  .  .  .  .
      32000.  C  .  .  .  . IE  .  .  .  .  .  .
      32100.  C  .  .  .  . IE  .  .  .  .  .  .
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	32200.	C	.	.	.	.	IE	.	.	.	.	.	.
6.01	32300.	C	.	.	.	.	IE	.	.	.	.	.	.
	32400.	C	.	.	.	.	IE	.	.	.	.	.	.
	32500.	C	.	.	.	.	IE	.	.	.	.	.	.
	32600.	C	.	.	.	.	EM	.	.	.	.	.	.
	32700.	C	.	.	.	.	EM	.	.	.	.	.	.
	32800.	C	.	.	.	.	IE	.	.	.	.	.	.
	32900.	C	.	.	.	.	IE	.	.	.	.	.	.
	33000.	C	.	.	.	.	IE	.	.	.	.	.	.
	33100.	C	.	.	.	.	IE	.	.	.	.	.	.
	33200.	C	.	.	.	.	IEM	.	.	.	.	.	.
6.20	33300.	C	.	.	.	.	IEM	.	.	.	.	.	.
	33400.	C	.	.	.	.	EM	.	.	.	.	.	.
	33500.	C	.	.	.	.	IE	.	.	.	.	.	.
	33600.	C	.	.	.	.	IE	.	.	.	.	.	.
	33700.	C	.	.	.	.	IE	.	.	.	.	.	.
	33800.	C	.	.	.	.	EM	.	.	.	.	.	.
	33900.	C	.	.	.	.	WE	.	.	.	.	.	.
	34000.	C	.	.	.	.	IE	.	.	.	.	.	.
	34100.	C	.	.	.	.	IE	.	.	.	.	.	.
	34200.	C	.	.	.	.	E	.	.	.	.	.	.
6.60	34300.	C	.	.	.	.	WE	.	.	.	.	.	.
	34400.	C	.	.	.	.	IE	.	.	.	.	.	.
	34500.	C	.	.	.	.	IE	.	.	.	.	.	.
	34600.	C	.	.	.	.	IE	.	.	.	.	.	.
	34700.	C	.	.	.	.	E	.	.	.	.	.	.
	34800.	C	.	.	.	.	E	.	.	.	.	.	.
6.70	34900.	C	.	.	.	.	E	.	.	.	.	.	.
	35000.	C	.	.	.	.	E	.	.	.	.	.	.
	35100.	C	.	.	.	.	E	.	.	.	.	.	.
	35200.	C	.	.	.	.	EM	.	.	.	.	.	.
	35300.	C	.	.	.	.	IE	.	.	.	.	.	.
	35400.	C	.	.	.	.	IE	.	.	.	.	.	.
	35500.	C	.	.	.	.	IE	.	.	.	.	.	.
	35600.	C	.	.	.	.	IE	.	.	.	.	.	.
	35700.	C	.	.	.	.	IE	.	.	.	.	.	.
	35800.	C	.	.	.	.	IE	.	.	.	.	.	.
	35900.	C	.	.	.	.	IE	.	.	.	.	.	.
	36000.	C	.	.	.	.	IE	.	.	.	.	.	.
	36100.	C	.	.	.	.	IE	.	.	.	.	.	.
6.85	36200.	C	.	.	.	.	IE	.	.	.	.	.	.
6.87	36300.	C	.	.	.	.	EM.	.	.	.	.	.	.

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THIS RUN EXECUTED 05/05/88 19:24:47

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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OTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP FLOODPLAIN-#2 WEST

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	SINCHL	SINCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	VOLUME	VCH

	.000	2300.00	1335.39	4060.68	4710.00	5380.00	5237.63	.00	932.88	2.39	1333.00	61.58	2.17
	.214	2300.00	1344.03	4418.95	4910.00	5360.00	5882.18	8.63	1416.18	2.03	1342.00	99.11	2.69
	.384	2300.00	1349.95	4793.70	4920.00	5150.00	5897.84	5.92	1104.14	2.45	1347.50	47.56	2.15
	.551	2300.00	1353.00	4766.95	4650.00	5380.00	5858.57	3.05	1091.62	2.00	1351.00	27.09	1.52
	.729	2300.00	1358.63	4881.99	4820.00	5400.00	5668.80	5.63	566.58	2.63	1356.00	257.84	4.08
	.905	2300.00	1365.19	4538.23	4895.00	5575.00	5706.15	6.57	1167.92	2.19	1363.00	30.58	1.67
	1.140	2300.00	1370.95	4524.67	4815.00	5400.00	6172.22	5.76	1415.76	1.45	1369.50	76.93	2.19
	1.371	2300.00	1378.06	4862.84	4740.00	5240.00	5832.52	7.11	969.68	2.16	1375.90	48.32	1.57
	1.517	2300.00	1382.39	4784.49	4970.00	5030.00	5187.69	4.32	403.20	3.39	1379.00	68.92	5.00
	1.634	2300.00	1385.14	4705.96	4950.00	5050.00	5286.81	2.75	580.85	3.64	1381.50	29.21	3.44
	1.731	2300.00	1386.54	3358.41	4940.00	5040.00	5166.12	1.41	700.58	3.54	1383.00	28.04	3.31
	1.851	2300.00	1388.82	3295.75	4870.00	5060.00	5170.58	2.28	905.84	3.82	1385.00	57.70	3.96
	1.984	2300.00	1392.03	4920.78	4920.00	5080.00	5079.22	3.20	158.43	2.23	1389.80	43.07	6.53
	1.993	2300.00	1392.22	4920.79	4920.00	5080.00	5079.21	.19	158.41	2.22	1390.00	43.60	6.56
*	2.125	2377.00	1394.98	3666.53	4950.00	5080.00	5180.41	.91	690.87	4.48	1390.50	25.81	3.63
	2.242	2377.00	1397.22	4198.19	4970.00	5025.00	5506.51	2.24	624.70	3.22	1394.00	57.81	3.82
	2.367	2377.00	1401.53	4599.38	4970.00	5030.00	5744.36	4.31	594.73	3.53	1398.00	89.67	5.22

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	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
	2.436	2377.00	1407.48	4832.74	4635.00	5070.00	5498.94	5.95	243.01	1.98	1405.50	336.05	6.96
*	2.580	2377.00	1410.06	4084.37	4575.00	5180.00	5918.96	.54	1834.59	2.06	1408.00	23.21	1.56
*	2.828	2377.00	1418.15	3873.62	4980.00	5070.00	5549.47	4.81	1453.70	3.15	1415.00	34.58	3.34
	3.169	2377.00	1427.99	4392.15	4820.00	5050.00	5577.73	9.84	1185.57	2.49	1425.50	101.70	3.91
	3.447	2556.00	1437.15	4364.35	4985.00	5020.00	5650.44	9.16	1286.09	4.15	1433.00	43.46	3.71
	3.676	2556.00	1442.55	4579.66	4980.00	5025.00	6012.02	5.40	1432.35	3.55	1439.00	46.19	4.24
	3.880	2340.00	1448.05	4393.07	4900.00	5660.00	5661.00	5.51	937.07	2.05	1446.00	59.04	2.66
	4.080	2340.00	1454.43	4733.84	4770.00	5420.00	6215.96	6.37	648.36	2.43	1452.00	62.21	2.81
	4.254	2340.00	1459.56	4864.82	4850.00	5115.00	6127.80	5.14	313.72	4.06	1455.50	50.77	3.40
	4.435	2340.00	1466.05	4833.45	4910.00	5070.00	6210.21	6.49	343.10	2.55	1463.50	93.30	4.99
	4.636	2340.00	1473.11	4721.15	4940.00	5110.00	6858.32	7.06	644.42	4.61	1468.50	48.25	3.78
	4.841	2340.00	1478.21	4923.87	4955.00	5050.00	7655.19	5.10	753.84	2.21	1476.00	57.87	3.20
	5.061	2340.00	1483.57	5054.30	4910.00	7270.00	8110.93	5.36	1088.98	1.57	1482.00	75.82	1.95

5.236	2340.00	1489.05	6705.49	4980.00	7650.00	7678.99	5.40	973.50	2.05	1487.00	47.07	2.20
5.491	2340.00	1497.15	4964.68	4940.00	5015.00	7488.62	9.10	865.60	1.65	1495.50	69.66	2.72
5.694	2300.00	1506.10	4954.07	4960.00	5050.00	6533.27	8.95	1579.19	1.60	1504.50	50.54	2.08
5.853	2300.00	1509.60	4797.78	4990.00	5020.00	5878.44	3.50	1038.85	2.10	1507.50	61.57	3.52
6.009	2429.00	1514.35	4252.90	4980.00	5020.00	5746.02	4.74	1250.19	3.35	1511.00	62.59	4.71
6.196	2429.00	1521.22	3727.77	4965.00	5025.00	5469.18	6.88	1740.41	4.22	1517.00	86.57	5.37
6.604	2429.00	1532.46	3978.54	4980.00	5020.00	5957.54	11.24	1958.50	1.46	1531.00	179.25	2.76
6.704	2268.00	1536.29	4374.80	4960.00	5070.00	5575.71	3.83	1200.83	3.29	1533.00	37.42	3.32
6.850	2268.00	1540.72	4718.20	4980.00	5020.00	5337.72	4.43	619.52	3.72	1537.00	29.27	3.51
6.874	2268.00	1541.01	4696.39	4950.00	5050.00	5380.23	.29	683.84	3.51	1537.50	17.52	2.74

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 2.125 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 2.580 PROFILE= 1 INTERPOLATED XSECTIONS USED

CAUTION SECNO= 2.828 PROFILE= 1 INTERPOLATED XSECTIONS USED

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THIS RUN EXECUTED 05/05/88 19:24:52

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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INPUT FILE: TRILBY

OUTPUT FILE: TRILBY.OUT

THIS RUN EXECUTED 05/05/88 15:24:47

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************

T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
T2      100 YEAR STORM EVENT (NOT ENCROACHED)
T3      TRILBY WASH (CAP TO MCMICKEN DAM)    MULTIPLE PROFILE RUN

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        2.        0.        0.   .001700      .00       .0        0.   1343.000     .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLOC     IBW       CHNIM     ITRACE

    1.000     .000      .000      .000      .000      .000      .000      .000      .000     15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000    43.000     1.000    53.000    54.000    51.000     4.000    39.000     8.000    42.000

     5.000    26.000   110.000   200.000      .000      .000      .000      .000      .000      .000

NC      .100      .100      .050      .100      .300      .000      .000      .000      .000      .000
QT     4.000 11688.000 11688.000  8999.000  4773.000      .000      .000      .000      .000      .000
ET      .000      .000     9.100      .000      .000      .000      .000      .000  4500.000  5085.000
X1     2.737     20.000  4980.000  5085.000      .000      .000      .000      .000      .000      .000
GR  1350.000  3218.000  1348.000  3430.000  1346.000  3785.000  1345.000  4090.000  1344.400  4280.000
GR  1344.000  4355.000  1342.000  4624.000  1341.000  4718.000  1342.000  4774.000  1342.000  4895.000
GR  1340.000  4942.000  1338.000  4980.000  1337.500  4990.000  1337.500  5010.000  1340.000  5035.000
GR  1340.000  5085.000  1338.500  5100.000  1339.500  5140.000  1340.000  5162.000  1348.500  5198.000

ET      .000      .000    10.400      .000      .000      .000      .000      .000      .000      .000
X1     2.811     28.000  4970.000  5060.000   450.000   400.000   390.000      .000      .000      .000
GR  1352.000  3670.000  1350.000  3845.000  1349.500  3990.000  1350.000  4105.000  1350.300  4165.000
GR  1350.000  4210.000  1348.000  4240.000  1346.000  4273.000  1344.000  4380.000  1342.000  4580.000
GR  1340.500  4600.000  1342.000  4625.000  1342.000  4650.000  1342.200  4705.000  1342.000  4750.000
GR  1340.500  4810.000  1342.000  4830.000  1342.000  4952.000  1340.000  4970.000  1339.000  4980.000
GR  1339.000  5018.000  1340.000  5022.000  1342.000  5035.000  1342.300  5060.000  1342.000  5240.000
    1344.000  5250.000  1346.000  5260.000  1348.500  5280.000      .000      .000      .000      .000

X1     2.890     31.000  4957.000  5129.000   380.000   380.000   420.000      .000      .000      .000
GR  1356.000  3755.000  1354.500  3880.000  1354.000  3992.000  1352.000  4030.000  1350.000  4085.000
GR  1350.700  4135.000  1350.000  4190.000  1349.300  4219.000  1350.000  4250.000  1348.000  4295.000
GR  1346.000  4355.000  1344.000  4491.000  1344.000  4550.000  1343.500  4582.000  1344.000  4612.000
GR  1344.000  4648.000  1343.500  4695.000  1344.000  4745.000  1344.800  4860.000  1344.000  4957.000
GR  1342.000  4965.000  1341.500  4975.000  1342.000  5032.000  1344.000  5129.000  1344.000  5200.000
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GR	1349.100	5560.000	.000	.000	.000	.000	.000	.000	.000	.000

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[illegible]	.000	.000	9.100	.000	.000	.000	.000	.000	4455.000	5455.000
X1	3.023	40.000	4958.000	5045.000	700.000	670.000	700.000	.000	.000	.000
GR	1360.000	3435.000	1358.000	3509.000	1356.000	3582.000	1354.000	3682.000	1352.000	3779.000
GR	1351.000	3888.000	1352.000	4081.000	1352.000	4110.000	1350.000	4175.000	1348.000	4230.000
GR	1348.000	4345.000	1347.000	4360.000	1348.000	4370.000	1348.000	4404.000	1348.000	4440.000
GR	1347.500	4450.000	1348.000	4460.000	1348.000	4631.000	1348.000	4780.000	1346.000	4790.000
GR	1344.000	4795.000	1343.000	4800.000	1344.000	4810.000	1346.000	4829.000	1348.000	4845.000
GR	1348.000	4880.000	1346.000	4948.000	1344.000	4958.000	1342.500	4965.000	1342.500	5020.000
GR	1350.000	5045.000	1348.000	5109.000	1346.000	5175.000	1345.000	5321.000	1344.000	5450.000
GR	1344.000	5535.000	1346.000	5565.000	1348.000	5588.000	1350.000	5625.000	1352.000	5700.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4305.000	5450.000
X1	3.199	33.000	4968.000	5025.000	825.000	940.000	930.000	.000	.000	.000
GR	1361.000	3465.000	1360.000	3560.000	1358.000	3600.000	1357.000	3700.000	1356.000	3840.000
GR	1354.000	3895.000	1352.100	4090.000	1352.500	4160.000	1352.000	4230.000	1352.500	4375.000
GR	1352.000	4430.000	1351.000	4450.000	1352.000	4462.000	1352.500	4530.000	1352.000	4590.000
GR	1350.000	4659.000	1349.500	4665.000	1352.000	4680.000	1352.000	4798.000	1350.000	4968.000
GR	1346.000	4980.000	1346.000	5015.000	1350.000	5025.000	1351.000	5045.000	1350.000	5062.000
GR	1348.000	5072.000	1350.000	5085.000	1350.000	5115.000	1350.500	5290.000	1351.100	5390.000
GR	1352.000	5510.000	1354.000	5540.000	1358.000	5560.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4369.000	5620.000
X1	3.360	45.000	4965.000	5032.000	840.000	830.000	850.000	.000	.000	.000
GR	1360.500	3580.000	1360.000	3720.000	1358.000	3800.000	1356.000	3912.000	1356.000	4060.000
GR	1356.500	4190.000	1356.000	4225.000	1354.500	4235.000	1356.000	4250.000	1356.500	4290.000
GR	1356.000	4320.000	1356.500	4355.000	1356.000	4388.000	1356.000	4405.000	1356.000	4579.000
GR	1355.000	4600.000	1356.000	4615.000	1356.000	4688.000	1356.000	4785.000	1354.000	4812.000
GR	1353.500	4830.000	1354.000	4850.000	1354.000	4965.000	1352.000	4975.000	1352.000	5018.000
GR	1354.000	5032.000	1355.000	5072.000	1354.000	5115.000	1354.000	5145.000	1355.500	5172.000
GR	1354.000	5195.000	1352.000	5205.000	1350.500	5218.000	1352.000	5241.000	1356.000	5269.000
GR	1356.000	5300.000	1356.000	5371.000	1356.000	5420.000	1355.500	5435.000	1356.000	5455.000
GR	1356.000	5495.000	1357.500	5600.000	1357.500	5830.000	1358.000	6045.000	1358.000	6290.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4385.000	5650.000
X1	3.521	32.000	4990.000	5030.000	830.000	830.000	850.000	.000	.000	.000
GR	1368.000	4010.000	1366.000	4075.000	1364.000	4105.000	1362.000	4120.000	1361.000	4160.000
GR	1360.000	4190.000	1360.500	4250.000	1360.200	4450.000	1361.000	4510.000	1360.000	4595.000
GR	1360.500	4630.000	1361.000	4815.000	1360.000	4980.000	1358.000	4990.000	1357.000	5015.000
GR	1360.000	5030.000	1360.000	5050.000	1359.500	5060.000	1360.000	5080.000	1361.000	5252.000
GR	1360.000	5410.000	1358.000	5420.000	1360.000	5425.000	1360.500	5522.000	1360.500	5565.000
GR	1361.500	5625.000	1361.500	5695.000	1362.000	5840.000	1362.500	5970.000	1362.000	6065.000
GR	1363.000	6145.000	1363.500	6338.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4490.000	5740.000
X1	3.636	46.000	4970.000	5032.000	680.000	580.000	610.000	.000	.000	.000
GR	1370.200	3532.000	1368.000	3565.000	1366.000	3620.000	1365.000	3738.000	1364.000	3932.000
GR	1364.000	4085.000	1364.500	4215.000	1364.200	4300.000	1364.000	4342.000	1362.500	4352.000
GR	1364.000	4368.000	1363.500	4380.000	1364.000	4390.000	1364.000	4555.000	1364.000	4640.000
GR	1363.000	4650.000	1364.000	4660.000	1364.000	4735.000	1363.000	4770.000	1364.000	4780.000
GR	1364.000	4845.000	1364.500	4890.000	1365.000	4930.000	1364.000	4970.000	1361.000	4990.000
GR	1361.000	5010.000	1364.000	5032.000	1364.000	5065.000	1362.000	5075.000	1364.000	5085.000
[illegible]	1364.000	5112.000	1362.000	5122.000	1364.000	5135.000	1365.000	5195.000	1364.000	5240.000
GR	1365.000	5390.000	1364.000	5522.000	1364.000	5565.000	1364.000	5595.000	1366.000	5665.000

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GR	1366.200	5740.000	1366.000	5785.000	1365.000	6060.000	1365.000	6285.000	1366.000	6665.000
GR	1367.200	6820.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.080	.080	.080	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4495.000	5925.000
X1	3.797	39.000	4455.000	5825.000	780.000	890.000	850.000	.000	.000	.000
GR	1373.000	3995.000	1372.000	4025.000	1370.000	4150.000	1369.200	4255.000	1370.000	4375.000
GR	1369.000	4455.000	1368.000	4495.000	1367.000	4505.000	1368.000	4540.000	1367.000	4550.000
GR	1368.000	4560.000	1369.000	4650.000	1368.000	4715.000	1367.500	4722.000	1368.000	4730.000
GR	1368.000	4800.000	1367.500	4815.000	1368.000	4835.000	1368.000	4850.000	1369.000	4970.000
GR	1369.000	5030.000	1369.000	5090.000	1370.000	5155.000	1370.000	5255.000	1369.000	5330.000
GR	1370.000	5380.000	1370.000	5495.000	1370.000	5655.000	1370.000	5680.000	1369.000	5715.000
GR	1370.000	5745.000	1369.000	5765.000	1370.000	5785.000	1370.000	5800.000	1370.000	5825.000
GR	1371.000	6055.000	1370.500	6322.000	1371.000	6510.000	1371.900	6715.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4555.000	5735.000
X1	3.958	30.000	4555.000	5582.000	400.000	630.000	850.000	.000	.000	.000
GR	1378.500	4375.000	1378.250	4405.000	1378.000	4435.000	1376.000	4475.000	1374.000	4515.000
GR	1372.500	4555.000	1372.000	4575.000	1372.500	4765.000	1373.000	4845.000	1374.000	4895.000
GR	1374.000	4944.000	1374.500	4955.000	1374.000	4998.000	1374.000	5008.000	1375.000	5105.000
GR	1375.500	5210.000	1374.000	5365.000	1373.500	5382.000	1374.000	5400.000	1374.000	5505.000
GR	1373.000	5515.000	1374.000	5522.000	1374.500	5582.000	1374.000	5820.000	1374.000	5945.000
GR	1375.000	6250.000	1376.000	6510.000	1377.000	6790.000	1378.000	7005.000	1378.500	7305.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4400.000	5645.000
X1	4.053	24.000	4480.000	5400.000	450.000	600.000	500.000	.000	.000	.000
GR	1382.500	4290.000	1382.000	4315.000	1380.000	4360.000	1379.000	4390.000	1376.000	4435.000
GR	1375.500	4480.000	1375.000	4525.000	1376.000	4555.000	1376.000	4608.000	1376.000	4660.000
GR	1377.000	4905.000	1376.200	4929.000	1376.600	4990.000	1376.300	5020.000	1376.500	5185.000
GR	1376.500	5205.000	1376.500	5275.000	1377.500	5400.000	1377.000	5605.000	1377.000	5900.000
GR	1378.000	6185.000	1379.000	6426.000	1380.000	6580.000	1382.000	6890.000	.000	.000
GT	4.000	11625.000	11625.000	8920.000	4730.000	.000	.000	.000	.000	.000
ET	.000	.000	10.400	.000	.000	.000	.000	.000	.000	.000
X1	4.157	33.000	4410.000	5180.000	470.000	570.000	550.000	.000	.000	.000
GR	1387.000	3870.000	1386.000	3905.000	1384.000	3930.000	1385.000	4015.000	1384.000	4051.000
GR	1382.000	4090.000	1380.000	4125.000	1379.000	4265.000	1380.000	4410.000	1378.000	4468.000
GR	1376.000	4475.000	1375.500	4480.000	1376.000	4488.000	1378.000	4495.000	1378.000	4510.000
GR	1377.500	4520.000	1378.000	4532.000	1379.000	4660.000	1378.000	4775.000	1378.000	4880.000
GR	1380.000	4910.000	1380.000	4955.000	1378.000	4985.000	1378.000	5025.000	1380.000	5060.000
GR	1380.000	5180.000	1379.500	5565.000	1380.000	5930.000	1381.000	6085.000	1382.000	6230.000
GR	1384.000	6510.000	1386.000	6790.000	1388.000	7035.000	.000	.000	.000	.000
NC	.090	.090	.050	.000	.000	.000	.000	.000	.000	.000
X1	4.275	41.000	4870.000	5060.000	550.000	680.000	620.000	.000	.000	.000
GR	1388.500	4150.000	1388.000	4170.000	1386.000	4190.000	1384.000	4205.000	1382.000	4230.000
GR	1381.500	4295.000	1382.000	4350.000	1384.000	4370.000	1386.000	4390.000	1387.000	4415.000
GR	1386.000	4435.000	1384.000	4495.000	1382.000	4520.000	1382.000	4535.000	1380.500	4570.000
GR	1380.000	4600.000	1380.000	4615.000	1382.000	4650.000	1382.000	4685.000	1381.000	4700.000
GR	1382.000	4715.000	1382.000	4785.000	1381.000	4790.000	1382.000	4805.000	1382.000	4870.000
GR	1380.500	4945.000	1380.500	5031.000	1382.000	5060.000	1382.500	5160.000	1382.000	5255.000
GR	1382.000	5285.000	1381.500	5595.000	1382.000	5975.000	1383.000	6080.000	1384.000	6245.000
GR	1386.000	6440.000	1388.000	6620.000	1388.000	6740.000	1389.000	6770.000	1390.000	6920.000
GR	1392.000	7140.000	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4880.000	5790.000
X1	4.405	31.000	4880.000	5075.000	670.000	700.000	690.000	.000	.000	.000
GR	1390.500	4724.000	1390.500	4724.500	1390.500	4725.000	1390.000	4760.000	1388.000	4780.000
GR	1386.000	4795.000	1384.000	4835.000	1383.500	4860.000	1384.000	4890.000	1384.000	4942.000
GR	1382.000	4960.000	1382.300	5050.000	1384.000	5060.000	1386.000	5075.000	1386.000	5100.000
GR	1384.000	5115.000	1386.000	5128.000	1386.000	5238.000	1385.000	5260.000	1386.000	5270.000
GR	1386.000	5295.000	1386.000	5375.000	1385.000	5770.000	1386.000	6100.000	1386.000	6205.000
GR	1388.000	6390.000	1390.000	6551.000	1391.000	6835.000	1392.000	6912.000	1394.000	7080.000
GR	1396.000	7275.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4892.000	5810.000
X1	4.539	18.000	4892.000	5000.000	730.000	660.000	705.000	.000	.000	.000
GR	1392.500	4835.000	1392.500	4836.000	1392.000	4860.000	1390.000	4892.000	1388.000	4942.000
GR	1386.000	4950.000	1385.500	5000.000	1386.000	5080.000	1388.000	5091.000	1388.000	5218.000
GR	1388.500	5281.000	1389.000	5475.000	1389.000	5885.000	1390.000	6375.000	1392.000	6730.000
GR	1394.000	6931.000	1396.000	7110.000	1398.000	7280.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4546.000	5660.000
X1	4.679	46.000	4900.000	5090.000	765.000	700.000	740.000	.000	.000	.000
GR	1402.000	2865.000	1402.000	2935.000	1401.000	3060.000	1400.000	3245.000	1398.000	3325.000
GR	1396.500	3390.000	1398.000	3555.000	1400.000	3678.000	1400.500	3815.000	1400.000	3950.000
GR	1400.000	4120.000	1399.000	4145.000	1398.000	4240.000	1396.000	4275.000	1394.000	4300.000
GR	1393.000	4410.000	1392.000	4450.000	1390.000	4500.000	1388.000	4505.000	1386.000	4515.000
GR	1385.000	4535.000	1386.000	4575.000	1388.000	4590.000	1390.000	4600.000	1392.000	4710.000
GR	1392.500	4795.000	1392.000	4900.000	1390.000	4915.000	1389.000	4932.000	1388.500	5000.000
GR	1390.000	5080.000	1392.000	5090.000	1393.000	5130.000	1392.000	5170.000	1391.500	5180.000
GR	1392.000	5190.000	1393.000	5255.000	1393.000	5835.000	1394.000	5995.000	1395.000	6335.000
GR	1396.000	6482.000	1398.000	6770.000	1398.000	6895.000	1400.000	7070.000	1402.000	7230.000
GR	1404.000	7420.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4381.000	5550.000
X1	4.810	37.000	4900.000	5130.000	700.000	620.000	690.000	.000	.000	.000
GR	1402.000	3870.000	1400.000	3930.000	1400.000	3990.000	1400.000	4040.000	1398.000	4085.000
GR	1396.000	4095.000	1394.000	4130.000	1394.000	4158.000	1392.500	4203.000	1394.000	4282.000
GR	1394.000	4350.000	1396.000	4550.000	1396.500	4610.000	1396.000	4675.000	1394.000	4900.000
GR	1392.000	4925.000	1391.500	5000.000	1392.000	5045.000	1394.000	5060.000	1396.000	5085.000
GR	1396.600	5130.000	1396.000	5175.000	1395.000	5190.000	1396.000	5200.000	1396.500	5235.000
GR	1396.000	5620.000	1396.000	5630.000	1397.000	5863.000	1398.000	5948.000	1398.500	6000.000
GR	1398.000	6099.000	1400.000	6205.000	1398.000	6275.000	1399.000	6425.000	1400.000	6525.000
GR	1402.000	6800.000	1404.000	7088.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4400.000	5600.000
X1	4.974	34.000	4898.000	5080.000	785.000	785.000	870.000	.000	.000	.000
GR	1402.000	4178.000	1400.000	4190.000	1398.500	4280.000	1399.000	4482.000	1400.000	4549.000
GR	1400.000	4625.000	1400.000	4690.000	1400.000	4810.000	1400.000	4898.000	1398.000	4920.000
GR	1396.000	4930.000	1396.000	4972.000	1398.000	5080.000	1400.000	5100.000	1400.000	5170.000
GR	1398.000	5180.000	1396.000	5188.000	1395.000	5219.000	1395.000	5250.000	1398.000	5260.000
GR	1400.000	5267.000	1400.000	5370.000	1399.500	5398.000	1400.000	5415.000	1399.500	5431.000
GR	1400.000	5441.000	1400.500	5508.000	1401.000	5720.000	1402.000	6011.000	1404.000	6090.000
GR	1405.000	6170.000	1404.000	6300.000	1404.000	6540.000	1406.000	6708.000	.000	.000

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NH	5.000	.080	3905.000	.050	3935.000	.100	4892.000	.050	5081.000	.100
NH	6705.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4260.000	5540.000
X1	5.099	45.000	3838.000	5448.000	780.000	590.000	660.000	.000	.000	.000
GR	1411.000	3625.000	1410.000	3655.000	1408.000	3670.000	1406.000	3700.000	1404.000	3718.000
GR	1402.000	3765.000	1402.000	3838.000	1402.000	3905.000	1401.500	3920.000	1402.000	3935.000
GR	1402.000	3989.000	1402.300	4050.000	1402.000	4125.000	1401.500	4145.000	1402.000	4160.000
GR	1402.500	4239.000	1402.000	4318.000	1401.500	4332.000	1402.000	4345.000	1403.500	4655.000
GR	1403.000	4748.000	1402.500	4892.000	1402.000	4939.000	1400.000	4945.000	1398.000	4959.000
GR	1398.000	4971.000	1398.500	5000.000	1400.000	5035.000	1402.000	5091.000	1402.000	5320.000
GR	1400.000	5331.000	1398.500	5365.000	1400.000	5390.000	1402.000	5410.000	1404.000	5448.000
GR	1403.700	5575.000	1404.000	5685.000	1404.000	5731.000	1405.000	5755.000	1406.000	6022.000
GR	1408.000	6118.000	1409.000	6211.000	1408.000	6300.000	1408.000	6425.000	1410.000	6705.000

NH	5.000	.080	3840.000	.050	4295.000	.100	4895.000	.050	5090.000	.100
NH	6180.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4340.000	5500.000
X1	5.217	40.000	4010.000	5500.000	660.000	560.000	620.000	.000	.000	.000
GR	1416.000	3560.000	1414.000	3663.000	1412.000	3731.000	1410.000	3775.000	1408.000	3840.000
GR	1406.000	3940.000	1404.000	4010.000	1404.000	4115.000	1406.000	4295.000	1406.000	4378.000
GR	1405.000	4395.000	1406.000	4411.000	1405.000	4465.000	1405.500	4600.000	1406.000	4601.000

GR	1407.000	4650.000	1406.000	4830.000	1405.500	4855.000	1406.000	4865.000	1406.000	4895.000
GR	1404.000	4900.000	1402.000	4925.000	1402.000	4945.000	1404.000	5070.000	1405.000	5080.000
GR	1406.000	5090.000	1407.000	5175.000	1406.000	5332.000	1404.000	5349.000	1402.000	5360.000
GR	1401.000	5405.000	1402.000	5435.000	1404.000	5445.000	1406.000	5455.000	1407.000	5500.000
GR	1408.000	5715.000	1408.000	5970.000	1410.000	6065.000	1412.000	6140.000	1413.000	6180.000
C	.030	.030	.050	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4640.000	5500.000
X1	5.346	26.000	4815.000	5125.000	710.000	650.000	690.000	.000	.000	.000
GR	1414.300	4215.000	1414.000	4250.000	1412.000	4305.000	1410.000	4450.000	1409.600	4490.000
GR	1409.000	4555.000	1408.500	4610.000	1408.300	4715.000	1410.000	4735.000	1410.000	4815.000
GR	1410.000	4940.000	1408.000	4955.000	1406.000	4965.000	1406.000	5020.000	1408.000	5080.000
GR	1408.800	5125.000	1408.000	5165.000	1406.500	5215.000	1406.000	5290.000	1408.000	5305.000
GR	1410.000	5315.000	1410.700	5460.000	1411.000	5619.000	1412.000	5990.000	1414.000	6125.000
GR	1414.500	6185.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	5.000	.080	4542.000	.100	4949.000	.050	5045.000	.100	5228.000	.080
NH	6100.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4680.000	5490.000
X1	5.490	28.000	4960.000	5045.000	800.000	720.000	760.000	.000	.000	.000
GR	1418.500	4198.000	1418.000	4270.000	1416.000	4333.000	1415.000	4390.000	1415.000	4458.000
GR	1414.000	4542.000	1412.000	4580.000	1414.000	4621.000	1415.000	4723.000	1414.000	4812.000
GR	1412.000	4949.000	1410.000	4960.000	1408.000	4975.000	1407.000	5000.000	1408.000	5020.000
GR	1410.000	5035.000	1412.000	5045.000	1412.000	5090.000	1410.000	5116.000	1412.000	5135.000
GR	1413.000	5175.000	1414.000	5228.000	1414.500	5353.000	1414.000	5528.000	1414.000	5655.000
GR	1415.000	5752.000	1416.000	5871.000	1418.000	6100.000	.000	.000	.000	.000

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NH	5.000	.080	4655.000	.100	4910.000	.050	5100.000	.100	5370.000	.080
NH	6230.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4745.000	5595.000
X1	5.544	27.000	4905.000	5065.000	260.000	300.000	230.000	.000	.000	.000
GR	1421.000	4140.000	1420.000	4185.000	1418.000	4330.000	1417.000	4430.000	1418.000	4495.000
GR	1418.500	4560.000	1418.000	4595.000	1416.000	4655.000	1414.500	4720.000	1416.000	4740.000
GR	1417.500	4805.000	1416.000	4910.000	1414.000	4945.000	1412.000	4965.000	1410.000	4980.000
GR	1409.000	5000.000	1410.000	5055.000	1412.000	5065.000	1412.000	5100.000	1412.000	5230.000
GR	1414.000	5275.000	1415.000	5370.000	1415.500	5495.000	1415.500	5555.000	1416.000	5850.000
GR	1418.000	6000.000	1420.000	6230.000	.000	.000	.000	.000	.000	.000
NH	5.000	.080	4645.000	.100	4900.000	.050	5079.000	.100	5905.000	.080
NH	6295.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GT	4.000	11560.000	11560.000	8845.000	4690.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4675.000	5550.000
X1	5.579	24.000	4900.000	5079.000	130.000	260.000	190.000	.000	.000	.000
GR	1422.000	4055.000	1420.000	4155.000	1418.500	4278.000	1418.000	4590.000	1416.000	4590.000
GR	1414.500	4645.000	1416.000	4675.000	1420.000	4720.000	1420.000	4770.000	1420.000	4900.000
GR	1416.000	4911.000	1412.000	4920.000	1410.000	4930.000	1409.000	5000.000	1410.000	5050.000
GR	1412.000	5058.000	1414.000	5068.000	1418.000	5079.000	1419.000	5190.000	1419.500	5338.000
GR	1419.000	5905.000	1420.000	6082.000	1421.500	6255.000	1422.000	6295.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.080	4525.000	.100	4915.000	.050	5065.000	.100	5655.000	.080
NH	6055.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4515.000	5415.000
X1	5.645	32.000	4915.000	5065.000	325.000	180.000	350.000	.000	.000	.000
GR	1422.000	4225.000	1420.000	4380.000	1418.000	4440.000	1416.000	4480.000	1415.000	4500.000
GR	1416.000	4525.000	1416.500	4655.000	1416.000	4760.000	1414.000	4805.000	1412.000	4815.000
GR	1411.000	4820.000	1412.000	4830.000	1416.000	4855.000	1417.000	4915.000	1416.000	4965.000
GR	1412.000	4980.000	1411.000	5000.000	1412.000	5020.000	1416.000	5065.000	1412.000	5095.000
GR	1411.000	5120.000	1412.000	5145.000	1416.000	5165.000	1416.000	5200.000	1418.000	5225.000
GR	1418.000	5365.000	1416.000	5380.000	1418.000	5395.000	1418.000	5480.000	1418.000	5655.000
GR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NH	5.000	.080	4389.000	.100	4878.000	.050	5039.000	.100	5665.000	.080
NH	6342.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4442.000	5455.000
X1	5.717	41.000	4442.000	5455.000	410.000	400.000	410.000	.000	.000	.000
GR	1426.000	3755.000	1424.000	3978.000	1424.000	4130.000	1424.600	4241.000	1424.000	4297.000
GR	1422.000	4355.000	1420.000	4389.000	1419.500	4442.000	1419.000	4580.000	1420.000	4690.000
GR	1420.500	4740.000	1420.000	4765.000	1419.000	4878.000	1418.000	4960.000	1416.000	4975.000
GR	1414.000	4988.000	1413.500	5000.000	1414.000	5015.000	1416.000	5029.000	1418.000	5039.000
GR	1418.000	5063.000	1416.000	5082.000	1418.000	5100.000	1420.000	5130.000	1420.000	5195.000
GR	1416.000	5210.000	1420.000	5255.000	1420.500	5285.000	1420.000	5355.000	1418.000	5385.000
GR	1413.000	5400.000	1420.000	5420.000	1420.200	5455.000	1421.000	5665.000	1422.000	5770.000
GR	1422.000	5795.000	1421.000	5805.000	1422.000	5814.000	1423.000	5975.000	1424.000	6046.000
GR	1426.000	6342.000	.000	.000	.000	.000	.000	.000	.000	.000

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NH	5.000	.080	4190.000	.100	4875.000	.050	5160.000	.100	5405.000	.080
NH	6220.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4350.000	5430.000
X1	5.777	40.000	4875.000	5160.000	300.000	350.000	320.000	.000	.000	.000
GR	1428.000	3715.000	1426.000	4000.000	1424.000	4190.000	1422.000	4250.000	1420.500	4445.000
GR	1420.500	4540.000	1421.500	4680.000	1420.000	4795.000	1419.500	4825.000	1420.000	4845.000
GR	1421.000	4875.000	1420.000	4905.000	1418.000	4925.000	1420.000	4950.000	1421.000	4965.000
GR	1420.000	4985.000	1418.000	5000.000	1420.000	5015.000	1420.000	5045.000	1419.000	5050.000
GR	1418.000	5080.000	1420.000	5090.000	1422.000	5105.000	1422.500	5160.000	1422.000	5215.000
GR	1422.000	5230.000	1422.500	5265.000	1422.000	5365.000	1420.000	5375.000	1417.000	5388.000
GR	1420.000	5395.000	1422.000	5405.000	1422.000	5435.000	1422.500	5500.000	1422.000	5555.000
GR	1423.500	5760.000	1424.000	5935.000	1423.500	5960.000	1424.000	5990.000	1426.000	6220.000

NH	5.000	.080	4358.000	.100	5000.000	.050	5255.000	.100	5612.000	.080
NH	6258.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4390.000	5525.000
X1	5.840	28.000	4390.000	5612.000	300.000	340.000	350.000	.000	.000	.000
GR	1428.000	3770.000	1427.000	3870.000	1426.000	4092.000	1424.000	4358.000	1424.000	4398.000
GR	1423.000	4420.000	1422.000	4490.000	1419.500	4502.000	1422.000	4515.000	1422.000	4658.000
GR	1423.000	4810.000	1423.500	5000.000	1422.500	5055.000	1423.000	5160.000	1424.000	5255.000
GR	1424.000	5315.000	1423.000	5450.000	1422.000	5515.000	1423.000	5550.000	1424.000	5612.000
GR	1424.000	5650.000	1424.000	5718.000	1426.000	5855.000	1426.500	5880.000	1426.000	5900.000
GR	1425.000	5997.000	1426.000	6021.000	1428.000	6258.000	.000	.000	.000	.000

NH	6.000	.080	4160.000	.100	4348.000	.050	4558.000	.080	4855.000	.050
NH	5375.000	.100	5920.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4500.000	5665.000
X1	5.961	25.000	4275.000	5665.000	620.000	710.000	640.000	.000	.000	.000
GR	1434.000	3372.000	1432.000	3751.000	1430.000	4046.000	1428.000	4160.000	1427.500	4205.000
GR	1427.500	4275.000	1427.000	4349.000	1426.500	4558.000	1427.500	4720.000	1427.000	4855.000
GR	1426.000	4982.000	1425.500	5000.000	1426.000	5008.000	1427.000	5082.000	1426.000	5225.000
GR	1425.500	5240.000	1426.000	5260.000	1427.500	5375.000	1426.000	5580.000	1425.300	5595.000
GR	1426.000	5608.000	1426.500	5665.000	1428.000	5790.000	1430.000	5870.000	1430.500	5920.000

NH	5.000	.080	3935.000	.100	4390.000	.080	5010.000	.100	5695.000	.080
NH	6635.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4505.000	5695.000
X1	6.082	47.000	4505.000	5695.000	550.000	750.000	640.000	.000	.000	.000
GR	1436.000	3300.000	1434.000	3478.000	1432.000	3652.000	1432.000	3695.000	1432.000	3770.000
GR	1430.000	3935.000	1430.000	3960.000	1430.500	4070.000	1430.000	4140.000	1430.000	4170.000
GR	1432.000	4225.000	1432.000	4225.000	1432.000	4225.000	1432.000	4225.000	1432.000	4225.000
GR	1433.000	4284.000	1433.000	4285.000	1432.000	4345.000	1431.000	4390.000	1430.000	4505.000
GR	1429.500	4520.000	1430.000	4530.000	1430.500	4570.000	1430.000	4615.000	1430.000	4680.000
GR	1430.500	4740.000	1430.500	4865.000	1430.000	4940.000	1430.000	4990.000	1429.000	5000.000
GR	1430.000	5010.000	1431.000	5145.000	1432.000	5325.000	1431.000	5460.000	1430.000	5530.000
GR	1430.000	5545.000	1431.000	5695.000	1432.000	5810.000	1432.000	5830.000	1431.500	5845.000
GR	1432.000	5850.000	1433.000	5875.000	1433.000	6150.000	1434.000	6270.000	1434.000	6275.000

GR	1436.000	6420.000	1438.000	6635.000	.000	.000	.000	.000	.000	.000

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C	.100	.100	.100	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4430.000	5890.000
X1	6.200	24.000	4340.000	5890.000	400.000	600.000	490.000	.000	.000	.000
GR	1440.000	4181.000	1441.500	4218.000	1441.500	4340.000	1440.000	4375.000	1436.000	4388.000
GR	1434.000	4515.000	1434.500	4582.000	1434.000	4860.000	1434.000	5000.000	1435.000	5290.000
GR	1434.000	5405.000	1434.000	5450.000	1434.000	5510.000	1433.500	5581.000	1434.000	5610.000
GR	1435.000	5830.000	1435.500	5890.000	1436.000	5970.000	1437.000	6100.000	1438.000	6200.000
GR	1440.000	6360.000	1440.000	6570.000	1442.000	6795.000	1444.000	7060.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4265.000	5820.000
X1	6.293	23.000	4195.000	5820.000	400.000	340.000	490.000	.000	.000	.000
GR	1441.000	4182.000	1440.800	4185.000	1440.600	4188.000	1440.400	4191.000	1440.200	4193.000
GR	1440.000	4195.000	1439.000	4230.000	1437.000	4370.000	1436.500	4495.000	1437.000	4610.000
GR	1437.800	4810.000	1437.500	5000.000	1437.000	5155.000	1437.000	5270.000	1436.500	5400.000
GR	1437.000	5640.000	1438.000	5820.000	1437.000	5925.000	1438.000	6105.000	1440.000	6270.000
GR	1442.000	6320.000	1444.000	6360.000	1444.000	6405.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4150.000	5870.000
X1	6.395	34.000	4088.000	6610.000	460.000	450.000	540.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1444.000	3600.000	1443.000	3740.000	1442.000	3820.000	1441.500	3980.000	1441.500	3980.000
GR	1442.500	4088.000	1442.000	4089.000	1442.000	4090.000	1441.000	4192.000	1441.000	4193.000
GR	1440.000	4205.000	1439.100	4232.000	1440.000	4245.000	1440.200	4260.000	1441.000	4640.000
GR	1440.000	4950.000	1439.000	4975.000	1440.000	5000.000	1440.000	5045.000	1440.000	5105.000
GR	1439.500	5295.000	1440.000	5515.000	1439.000	5650.000	1440.000	5790.000	1440.500	5870.000
GR	1440.000	5920.000	1439.700	5980.000	1440.000	6090.000	1440.000	6210.000	1442.000	6450.000
GR	1444.000	6610.000	1446.000	6690.000	1448.000	6790.000	1450.000	6825.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4215.000	6005.000
X1	6.520	28.000	4215.000	6005.000	530.000	530.000	660.000	.000	.000	.000
GR	1448.000	3799.000	1446.000	4000.000	1444.000	4090.000	1444.000	4215.000	1442.000	4310.000
GR	1442.000	4330.000	1443.500	4405.000	1443.500	4765.000	1442.500	5000.000	1442.000	5140.000
GR	1442.000	5230.000	1442.000	5278.000	1442.000	5350.000	1442.500	5510.000	1442.000	5670.000
GR	1442.500	6005.000	1443.000	6270.000	1444.000	6455.000	1444.000	6490.000	1443.500	6505.000
GR	1444.000	6525.000	1445.000	6710.000	1446.000	6860.000	1447.000	7000.000	1448.000	7045.000
GR	1450.000	7210.000	1452.000	7360.000	1454.000	7450.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4380.000	6370.000
X1	6.645	34.000	4235.000	6140.000	550.000	740.000	660.000	.000	.000	.000
GR	1451.000	3860.000	1450.000	3940.000	1448.000	4235.000	1448.000	4260.000	1446.500	4340.000
GR	1447.000	4545.000	1446.000	4990.000	1445.000	5000.000	1446.000	5010.000	1446.000	5090.000
GR	1445.000	5300.000	1444.000	5475.000	1444.500	5645.000	1445.000	5830.000	1445.000	6035.000
GR	1446.000	6140.000	1446.000	6285.000	1445.000	6285.000	1446.000	6355.000	1446.000	6450.000
GR	1446.000	6510.000	1445.000	6521.000	1446.000	6535.000	1446.000	6575.000	1448.000	6855.000
GR	1450.000	7115.000	1451.000	7365.000	1452.000	7430.000	1452.000	7570.000	1453.000	7620.000
GR	1454.000	7665.000	1456.000	7960.000	1458.000	8040.000	1460.000	8190.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4420.000	6620.000
X1	6.787	34.000	4420.000	6210.000	630.000	690.000	750.000	.000	.000	.000
GR	1454.500	4060.000	1454.000	4215.000	1452.000	4310.000	1451.000	4420.000	1450.000	4495.000
GR	1449.500	4510.000	1450.000	4525.000	1450.000	4610.000	1450.000	4815.000	1449.000	5000.000
GR	1448.000	5105.000	1448.000	5125.000	1448.600	5380.000	1448.000	5570.000	1447.000	5810.000
GR	1446.000	5960.000	1446.000	5990.000	1446.500	6165.000	1447.000	6210.000	1448.000	6270.000

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GR	1449.000	6460.000	1448.000	6590.000	1448.500	6890.000	1449.000	6960.000	1448.500	7050.000
GR	1449.000	7110.000	1447.500	7120.000	1448.000	7130.000	1450.000	7240.000	1452.000	7340.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4620.000	6840.000
X1	6.906	52.000	4620.000	6165.000	560.000	700.000	630.000	.000	.000	.000
GR	1458.200	4225.000	1458.000	4280.000	1456.000	4450.000	1454.000	4535.000	1453.500	4620.000
GR	1452.000	4882.000	1453.000	5000.000	1453.500	5100.000	1453.000	5245.000	1452.000	5320.000
GR	1452.000	5365.000	1450.000	5375.000	1449.700	5385.000	1450.000	5390.000	1452.000	5402.000
GR	1452.500	5485.000	1452.000	5561.000	1452.000	5600.000	1452.000	5665.000	1452.000	5795.000
GR	1452.000	5955.000	1451.200	6040.000	1452.000	6165.000	1451.000	6350.000	1450.000	6500.000
GR	1450.500	6540.000	1450.000	6582.000	1450.000	6705.000	1449.000	6725.000	1450.000	6743.000
GR	1450.000	6782.000	1449.500	6805.000	1450.000	6820.000	1452.000	6911.000	1452.000	6979.000
GR	1452.000	7072.000	1453.000	7338.000	1452.000	7515.000	1450.500	7523.000	1452.000	7539.000
GR	1452.000	7561.000	1451.000	7571.000	1452.000	7581.000	1453.000	7670.000	1452.000	7765.000
GR	1451.000	7775.000	1452.000	7782.000	1454.000	7960.000	1456.000	8210.000	1458.000	8445.000
GR	1460.000	8690.000	1462.000	8905.000	.000	.000	.000	.000	.000	.000
QT	4.000	11493.000	11493.000	8769.000	4646.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4670.000	6530.000
X1	7.020	51.000	4710.000	5640.000	570.000	790.000	600.000	.000	.000	.000
GR	1460.200	4185.000	1460.000	4378.000	1459.000	4480.000	1458.000	4662.000	1457.500	4710.000
GR	1456.000	4835.000	1456.000	4880.000	1455.000	4965.000	1455.000	5000.000	1456.000	5020.000
GR	1456.000	5045.000	1455.000	5070.000	1456.000	5080.000	1456.500	5255.000	1456.000	5315.000
GR	1456.000	5340.000	1456.000	5375.000	1456.000	5410.000	1455.000	5420.000	1456.000	5440.000
GR	1456.000	5485.000	1455.500	5640.000	1456.000	5795.000	1456.500	6030.000	1456.500	6210.000
GR	1457.000	6345.000	1457.500	6488.000	1457.000	6640.000	1456.000	6758.000	1454.000	6952.000
GR	1454.000	6970.000	1454.000	6988.000	1453.000	7005.000	1454.000	7019.000	1454.500	7100.000
GR	1454.000	7204.000	1454.000	7222.000	1456.000	7368.000	1456.500	7485.000	1456.000	7598.000
GR	1456.000	7885.000	1456.500	8005.000	1456.000	8182.000	1454.000	8200.000	1456.000	8212.000
GR	1457.000	8288.000	1458.000	8501.000	1460.000	8771.000	1462.000	8995.000	1464.000	9218.000
GR	1466.000	9340.000	.000	.000	.000	.000	.000	.000	.000	.000
QT	4.000	7430.000	7430.000	5750.000	3065.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4650.000	5850.000
X1	7.134	20.000	4545.000	5400.000	570.000	630.000	600.000	.000	.000	.000
GR	1463.500	4140.000	1462.000	4310.000	1460.000	4430.000	1460.000	4480.000	1460.500	4545.000
GR	1460.000	4590.000	1459.000	4812.000	1458.000	4945.000	1457.500	5000.000	1458.000	5020.000
GR	1458.500	5085.000	1458.500	5155.000	1459.000	5400.000	1458.000	5600.000	1459.000	5858.000
GR	1459.000	6011.000	1458.500	6170.000	1459.000	6288.000	1460.000	6325.000	1461.200	6390.000
QT	4.000	3362.000	3362.000	2728.000	1488.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4910.000	5150.000
X1	7.262	23.000	4910.000	5405.000	630.000	630.000	680.000	.000	.000	.000
GR	1465.000	4815.000	1464.000	4895.000	1463.500	4910.000	1462.000	4945.000	1460.000	4985.000
GR	1460.000	5000.000	1460.000	5010.000	1462.000	5030.000	1462.500	5131.000	1462.000	5205.000
GR	1461.000	5220.000	1462.000	5240.000	1462.000	5265.000	1461.000	5270.000	1462.000	5280.000
GR	1462.000	5350.000	1462.000	5370.000	1464.000	5405.000	1462.000	5470.000	1464.000	5565.000
GR	1464.000	5645.000	1465.000	5803.000	1465.300	5908.000	.000	.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4670.000	5310.000
X1	7.410	22.000	4670.000	5310.000	800.000	460.000	780.000	.000	.000	.000
GR	1471.500	4200.000	1470.000	4455.000	1468.000	4610.000	1466.000	4670.000	1466.000	4715.000
GR	1466.500	4755.000	1466.000	4785.000	1466.000	4810.000	1466.500	4860.000	1466.000	4995.000
GR	1464.000	4910.000	1466.000	4945.000	1466.000	4980.000	1464.500	5000.000	1464.000	5045.000
GR	1464.000	5060.000	1468.000	5075.000	1468.000	5130.000	1467.000	5310.000	1468.000	5575.000
GR	1470.000	5670.000	1470.500	5730.000	.000	.000	.000	.000	.000	.000
QT	4.000	3420.000	3420.000	2775.000	1525.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4600.000	5210.000
X1	7.520	23.000	4435.000	5165.000	570.000	830.000	580.000	.000	.000	.000
GR	1474.500	4815.000	1474.000	4225.000	1472.000	4300.000	1470.000	4385.000	1469.700	4435.000
GR	1470.000	4550.000	1470.300	4620.000	1470.000	4745.000	1470.000	4790.000	1469.000	4830.000
GR	1470.000	4845.000	1470.000	4875.000	1468.000	4888.000	1468.000	4900.000	1470.000	4910.000
GR	1470.500	4950.000	1470.000	4990.000	1469.500	5000.000	1470.000	5015.000	1469.000	5080.000

GR	1471.000	5165.000	1472.000	5245.000	1472.500	5325.000	.000	.000	.000	.000
NC	.090	.090	.050	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4615.000	5250.000
X1	7.643	21.000	4990.000	5110.000	580.000	700.000	650.000	.000	.000	.000
GR	1477.000	4010.000	1476.000	4155.000	1477.000	4270.000	1476.000	4375.000	1476.000	4490.000
GR	1474.000	4530.000	1473.000	4570.000	1474.000	4730.000	1474.000	4840.000	1474.000	4885.000
GR	1472.000	4980.000	1470.000	5000.000	1472.000	5025.000	1474.000	5110.000	1474.000	5180.000
GR	1472.700	5260.000	1473.000	5335.000	1474.000	5382.000	1476.000	5610.000	1478.000	5742.000
GR	1479.000	5845.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4775.000	5290.000
X1	7.764	16.000	4955.000	5012.000	580.000	610.000	600.000	.000	.000	.000
GR	1479.500	4325.000	1478.000	4495.000	1477.500	4575.000	1477.000	4765.000	1476.000	4955.000
GR	1474.000	4975.000	1472.500	5000.000	1474.000	5008.000	1476.000	5012.000	1478.000	5335.000
GR	1479.000	5382.000	1478.000	5435.000	1477.000	5490.000	1479.000	5505.000	1480.000	5560.000
GR	1481.000	5755.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4746.000	5150.000
X1	7.868	25.000	4955.000	5025.000	605.000	580.000	590.000	.000	.000	.000
GR	1482.500	4592.000	1482.000	4593.000	1482.000	4594.000	1482.000	4595.000	1480.000	4622.000
GR	1479.500	4665.000	1480.000	4705.000	1479.000	4738.000	1480.000	4755.000	1480.500	4825.000
GR	1480.000	4911.000	1479.700	4932.000	1480.000	4955.000	1480.000	4975.000	1478.000	4988.000
GR	1476.000	5000.000	1478.000	5010.000	1480.000	5025.000	1479.000	5138.000	1480.000	5160.000
GR	1482.000	5178.000	1483.500	5220.000	1482.500	5355.000	1484.000	5440.000	1484.500	5720.000
QT	4.000	3480.000	3480.000	2825.000	1560.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4795.000	5190.000
X1	7.969	21.000	4925.000	5095.000	460.000	600.000	530.000	.000	.000	.000
GR	1485.100	4570.000	1484.000	4660.000	1483.000	4795.000	1482.000	4860.000	1482.500	4902.000
GR	1482.000	4925.000	1481.000	4952.000	1482.000	4989.000	1482.500	5000.000	1482.000	5055.000
GR	1482.500	5095.000	1482.000	5125.000	1482.000	5155.000	1482.800	5380.000	1482.000	5445.000
GR	1482.000	5465.000	1484.000	5505.000	1486.000	5545.000	1487.000	5665.000	1488.000	5715.000
GR	1489.200	5770.000	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4845.000	5265.000
X1	8.073	15.000	4940.000	5100.000	530.000	510.000	550.000	.000	.000	.000
GR	1487.700	4620.000	1486.000	4785.000	1485.800	4940.000	1484.000	4975.000	1483.400	5000.000
GR	1484.000	5010.000	1485.000	5100.000	1485.500	5305.000	1485.000	5460.000	1485.000	5490.000
GR	1486.000	5520.000	1488.000	5545.000	1490.000	5580.000	1492.000	5762.000	1492.000	5900.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4800.000	5290.000
X1	8.173	21.000	4935.000	5050.000	650.000	510.000	590.000	.000	.000	.000
GR	1490.300	4170.000	1489.000	4440.000	1488.000	4590.000	1489.000	4810.000	1487.500	4935.000
GR	1486.000	4980.000	1485.000	5000.000	1486.000	5010.000	1487.500	5050.000	1487.200	5140.000
GR	1488.000	5162.000	1488.000	5240.000	1488.500	5260.000	1488.000	5305.000	1486.000	5380.000
GR	1488.000	5420.000	1489.000	5600.000	1488.500	5680.000	1488.500	5735.000	1490.000	5810.000
GR	1492.000	5900.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4840.000	5235.000
X1	8.298	24.000	4922.000	5075.000	730.000	470.000	630.000	.000	.000	.000
GR	1494.000	4275.000	1493.000	4610.000	1492.000	4845.000	1490.000	4985.000	1489.500	4922.000
GR	1489.500	4940.000	1490.000	4950.000	1490.000	4975.000	1489.000	4990.000	1487.000	5000.000
GR	1488.000	5025.000	1490.000	5030.000	1491.000	5075.000	1489.500	5115.000	1491.300	5145.000
GR	1492.000	5285.000	1492.000	5350.000	1492.000	5479.000	1492.000	5699.000	1494.000	5760.000
GR	1494.500	5810.000	1494.000	5905.000	1494.000	5960.000	1495.500	6108.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4760.000	5140.000
X1	8.421	22.000	4970.000	5040.000	660.000	460.000	650.000	.000	.000	.000
GR	1498.500	4315.000	1498.000	4375.000	1496.000	4445.000	1494.000	4975.000	1493.000	4760.000
GR	1494.000	4940.000	1494.000	4970.000	1492.000	4982.000	1490.000	4990.000	1489.500	5000.000
GR	1490.000	5015.000	1492.000	5075.000	1496.000	5060.000	1496.000	5110.000	1493.000	5130.000

GR	1494.000	5135.000	1494.000	5140.000	1494.000	5190.000	1496.000	5235.000	1497.000	5325.000
GR	1498.000	5770.000	1498.300	5830.000	.000	.000	.000	.000	.000	.000
QT	4.000	3540.000	3540.000	2875.000	1595.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4960.000	5200.000
X1	8.535	18.000	4860.000	5045.000	720.000	480.000	600.000	.000	.000	.000
GR	1499.200	4540.000	1498.000	4670.000	1496.000	4810.000	1494.000	4825.000	1496.000	4840.000
GR	1496.000	4860.000	1496.000	4890.000	1494.000	4905.000	1493.000	4915.000	1494.000	4930.000
GR	1496.000	4940.000	1496.000	4975.000	1494.000	5000.000	1494.000	5020.000	1496.000	5045.000
GR	1497.000	5110.000	1498.000	5235.000	1500.000	5345.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4760.000	5045.000
X1	8.639	15.000	4980.000	5045.000	420.000	550.000	540.000	.000	.000	.000
GR	1501.100	4455.000	1500.000	4515.000	1498.200	4560.000	1498.500	4760.000	1500.000	4920.000
GR	1500.000	4960.000	1498.000	4980.000	1496.000	4990.000	1495.000	5000.000	1496.000	5018.000
GR	1498.000	5025.000	1500.000	5045.000	1502.000	5120.000	1502.000	5200.000	1503.000	5350.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4850.000	5120.000
X1	8.736	29.000	4978.000	5090.000	470.000	520.000	510.000	.000	.000	.000
GR	1506.500	4025.000	1506.000	4140.000	1505.000	4322.000	1504.000	4435.000	1502.000	4470.000
GR	1501.500	4475.000	1502.000	4512.000	1502.000	4560.000	1502.000	4580.000	1503.000	4650.000
GR	1502.000	4740.000	1501.500	4799.000	1502.000	4830.000	1502.000	4870.000	1501.700	4925.000
GR	1502.000	4965.000	1500.000	4978.000	1498.000	4990.000	1497.000	5000.000	1498.000	5010.000
GR	1500.000	5020.000	1502.000	5040.000	1500.000	5055.000	1499.000	5062.000	1500.000	5070.000
GR	1501.000	5080.000	1502.000	5110.000	1504.000	5145.000	1505.500	5245.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4870.000	5175.000
X1	8.851	19.000	4935.000	5012.000	450.000	610.000	610.000	.000	.000	.000
GR	1506.800	4730.000	1506.000	4830.000	1504.500	4870.000	1504.000	4882.000	1502.000	4890.000
GR	1504.000	4910.000	1504.500	4935.000	1504.000	4960.000	1502.000	4975.000	1500.000	5000.000
GR	1502.000	5010.000	1504.000	5012.000	1504.200	5160.000	1504.500	5175.000	1504.200	5190.000
GR	1505.000	5230.000	1506.000	5290.000	1508.000	5312.000	1508.500	5390.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4900.000	5160.000
X1	8.950	18.000	4930.000	5025.000	510.000	530.000	520.000	.000	.000	.000
GR	1510.000	4500.000	1510.000	4600.000	1509.000	4665.000	1508.000	4730.000	1508.000	4760.000
GR	1508.000	4905.000	1506.000	4930.000	1505.000	4945.000	1506.000	4955.000	1506.000	4980.000
GR	1504.000	4990.000	1502.200	5000.000	1504.000	5010.000	1506.000	5025.000	1506.500	5075.000
GR	1506.600	5100.000	1508.000	5335.000	1510.000	5380.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4925.000	5160.000
X1	9.043	22.000	4970.000	5070.000	480.000	490.000	490.000	.000	.000	.000
GR	1513.500	4395.000	1512.000	4610.000	1512.000	4750.000	1512.000	4840.000	1510.000	4880.000
GR	1508.000	4970.000	1506.000	4980.000	1504.000	4990.000	1503.700	5000.000	1504.000	5008.000
GR	1506.000	5015.000	1508.000	5020.000	1508.500	5060.000	1508.000	5070.000	1508.500	5170.000
GR	1510.000	5300.000	1512.000	5378.000	1511.500	5445.000	1512.000	5505.000	1512.500	5578.000
GR	1512.500	5795.000	1514.000	6060.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4915.000	5140.000
X1	9.113	23.000	4970.000	5055.000	380.000	360.000	370.000	.000	.000	.000
GR	1516.000	4510.000	1514.000	4730.000	1512.000	4795.000	1512.000	4845.000	1512.500	4870.000
GR	1512.000	4900.000	1510.000	4930.000	1508.500	4960.000	1510.000	4970.000	1508.000	4980.000
GR	1506.000	4990.000	1505.000	5000.000	1506.000	5012.000	1508.000	5020.000	1510.000	5030.000
GR	1511.000	5055.000	1510.000	5100.000	1510.000	5120.000	1510.000	5185.000	1512.000	5330.000
GR	1514.000	5440.000	1515.000	5960.000	1516.000	6135.000	.000	.000	.000	.000
QT	4.000	3660.000	3660.000	2975.000	1665.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4845.000	5085.000
X1	9.211	17.000	4990.000	5029.000	510.000	505.000	520.000	.000	.000	.000
GR	1518.000	4335.000	1518.000	4460.000	1516.000	4525.000	1514.000	4700.000	1513.000	4835.000
GR	1512.000	4905.000	1512.000	4939.000	1512.000	4982.000	1510.000	4990.000	1508.000	4995.000

GR	1516.000	5121.000	1516.300	5155.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4850.000	5060.000
X1	9.317	20.000	4979.000	5062.000	560.000	560.000	560.000	.000	.000	.000
GR	1522.000	4405.000	1520.000	4575.000	1518.000	4705.000	1518.000	4930.000	1516.500	4850.000
GR	1518.000	4875.000	1516.000	4905.000	1514.000	4979.000	1512.000	4985.000	1510.000	5000.000
GR	1512.000	5015.000	1514.000	5020.000	1515.500	5035.000	1514.000	5045.000	1512.000	5055.000
GR	1514.000	5062.000	1516.000	5105.000	1518.000	5310.000	1520.000	5460.000	1522.000	5535.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4995.000	5100.000
X1	9.402	21.000	4985.000	5045.000	500.000	545.000	520.000	.000	.000	.000
GR	1524.500	4390.000	1524.000	4550.000	1522.000	4730.000	1520.000	4770.000	1518.500	4920.000
GR	1518.000	4985.000	1516.000	4990.000	1514.000	4995.000	1512.500	5000.000	1514.000	5012.000
GR	1516.000	5021.000	1518.000	5045.000	1517.500	5060.000	1518.000	5070.000	1520.000	5105.000
GR	1520.000	5145.000	1522.000	5260.000	1522.400	5345.000	1522.000	5425.000	1522.000	5547.000
GR	1524.000	5630.000	.000	.000	.000	.000	.000	.000	.000	.000

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ET	.000	.000	9.100	.000	.000	.000	.000	.000	4925.000	5140.000
X1	9.473	16.000	4981.000	5030.000	370.000	370.000	370.000	.000	.000	.000
GR	1526.800	4500.000	1526.000	4660.000	1524.000	4730.000	1522.000	4768.000	1522.000	4768.000
GR	1520.000	4981.000	1518.000	4994.000	1516.500	5000.000	1518.000	5020.000	1520.000	5030.000
GR	1520.000	5109.000	1522.000	5200.000	1524.000	5261.000	1526.000	5550.000	1526.000	5673.000
GR	1528.000	5810.000	.000	.000	.000	.000	.000	.000	.000	.000

QT	4.000	3720.000	3720.000	3025.000	1700.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4905.000	5135.000
X1	9.567	16.000	4980.000	5035.000	500.000	490.000	500.000	.000	.000	.000
GR	1528.000	4681.000	1526.000	4752.000	1524.000	4833.000	1523.000	4890.000	1522.000	4980.000
GR	1520.000	4986.000	1518.000	4994.000	1516.000	5000.000	1518.000	5020.000	1520.000	5030.000
GR	1522.000	5035.000	1522.000	5075.000	1522.000	5119.000	1524.000	5205.000	1526.000	5272.000
GR	1528.000	5385.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4900.000	5090.000
X1	9.649	19.000	4970.000	5035.000	440.000	400.000	430.000	.000	.000	.000
GR	1530.000	4700.000	1528.000	4725.000	1528.000	4755.000	1528.000	4820.000	1526.000	4870.000
GR	1524.000	4918.000	1522.000	4925.000	1520.000	4930.000	1519.500	4938.000	1520.000	4945.000
GR	1521.500	4970.000	1520.000	4992.000	1519.500	5000.000	1520.000	5010.000	1522.000	5020.000
GR	1524.000	5035.000	1526.000	5200.000	1528.000	5305.000	1530.000	5380.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4880.000	5060.000
X1	9.726	19.000	4975.000	5032.000	450.000	340.000	410.000	.000	.000	.000
GR	1534.000	4555.000	1532.000	4645.000	1530.000	4695.000	1528.000	4785.000	1526.000	4822.000
GR	1525.500	4840.000	1526.000	4850.000	1526.000	4890.000	1526.000	4925.000	1527.000	4955.000
GR	1526.000	4975.000	1524.000	4985.000	1522.000	4990.000	1521.000	5000.000	1522.000	5010.000
GR	1524.000	5015.000	1526.000	5025.000	1528.000	5032.000	1529.000	5063.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4860.000	5080.000
X1	9.791	21.000	4989.000	5050.000	310.000	360.000	340.000	.000	.000	.000
GR	1536.000	4500.000	1534.000	4585.000	1532.000	4631.000	1530.000	4670.000	1529.000	4761.000
GR	1528.000	4891.000	1527.500	4920.000	1528.000	4950.000	1528.000	4980.000	1526.000	4989.000
GR	1524.000	4995.000	1522.500	5000.000	1524.000	5020.000	1526.000	5030.000	1528.000	5040.000
GR	1530.000	5050.000	1532.000	5145.000	1532.000	5229.000	1532.000	5289.000	1534.000	5341.000
GR	1536.000	5402.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4940.000	5145.000
X1	9.899	25.000	4975.000	5035.000	455.000	620.000	570.000	.000	.000	.000
GR	1538.000	4540.000	1536.000	4725.000	1534.000	4760.000	1532.000	4865.000	1532.000	4905.000
GR	1532.000	4935.000	1530.000	4975.000	1528.000	4985.000	1526.000	4992.000	1525.000	5000.000
GR	1526.000	5008.000	1528.000	5012.000	1530.000	5018.000	1531.500	5035.000	1530.000	5055.000
GR	1528.000	5065.000	1530.000	5095.000	1532.000	5100.000	1532.000	5120.000	1530.000	5175.000
GR	1532.000	5220.000	1534.000	5255.000	1536.500	5300.000	1536.000	5345.000	1538.000	5395.000

GT	4.000	3780.000	3780.000	3075.000	1735.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4835.000	5065.000
X1	9.980	20.000	4990.000	5040.000	500.000	250.000	430.000	.000	.000	.000
GR	1540.000	4490.000	1540.500	4555.000	1540.500	4640.000	1540.000	4660.000	1538.000	4670.000
GR	1536.000	4680.000	1534.000	4700.000	1533.000	4825.000	1533.000	4900.000	1532.000	4980.000
GR	1530.000	4990.000	1527.500	5000.000	1530.000	5015.000	1532.000	5025.000	1534.000	5040.000
GR	1534.000	5100.000	1533.500	5125.000	1534.000	5170.000	1535.000	5200.000	1538.000	5240.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4895.000	5060.000
X1	10.020	25.000	4980.000	5029.000	180.000	230.000	210.000	.000	.000	.000
GR	1538.000	4763.000	1538.000	4764.000	1538.000	4765.000	1538.000	4782.000	1536.000	4795.000
GR	1534.000	4805.000	1533.500	4820.000	1534.000	4840.000	1534.000	4875.000	1534.000	4932.000
GR	1534.000	4950.000	1534.000	4980.000	1532.000	4985.000	1530.000	4992.000	1528.500	5000.000
GR	1530.000	5010.000	1532.000	5020.000	1534.000	5029.000	1535.000	5065.000	1538.000	5115.000
GR	1539.000	5195.000	1540.000	5345.000	1539.000	5475.000	1540.000	5515.000	1542.000	5645.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4890.000	5035.000
X1	10.077	18.000	4967.000	5018.000	340.000	260.000	300.000	.000	.000	.000
GR	1540.000	4690.000	1538.000	4745.000	1538.000	4790.000	1536.000	4845.000	1534.000	4945.000
GR	1534.000	4967.000	1532.000	4980.000	1530.000	4990.000	1529.500	5000.000	1530.000	5010.000
GR	1532.000	5018.000	1534.000	5032.000	1536.000	5032.000	1539.000	5045.000	1538.000	5085.000
GR	1540.000	5150.000	1542.000	5205.000	1542.000	5285.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4980.000	5115.000
X1	10.137	20.000	4975.000	5025.000	220.000	400.000	320.000	.000	.000	.000
GR	1541.000	4860.000	1540.000	4890.000	1540.000	4905.000	1540.000	4940.000	1540.000	4950.000
GR	1540.000	4975.000	1538.000	4982.000	1534.000	4990.000	1532.000	4995.000	1531.500	5000.000
GR	1532.000	5008.000	1534.000	5018.000	1536.000	5025.000	1537.000	5060.000	1536.000	5100.000
GR	1536.000	5122.000	1538.000	5175.000	1540.000	5185.000	1542.000	5195.000	1544.000	5215.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4940.000	5100.000
X1	10.179	17.000	4960.000	5030.000	270.000	140.000	220.000	.000	.000	.000
GR	1544.000	4810.000	1542.000	4900.000	1540.000	4911.000	1538.000	4925.000	1536.000	4960.000
GR	1536.000	4975.000	1534.000	4990.000	1532.500	5000.000	1534.000	5015.000	1536.000	5030.000
GR	1538.000	5040.000	1538.000	5065.000	1537.000	5090.000	1539.000	5115.000	1540.000	5185.000
GR	1542.000	5220.000	1544.000	5248.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4900.000	5055.000
X1	10.283	19.000	4970.000	5025.000	500.000	580.000	550.000	.000	.000	.000
GR	1544.000	4710.000	1542.000	4770.000	1540.000	4810.000	1539.000	4830.000	1540.000	4850.000
GR	1541.000	4938.000	1540.000	4970.000	1538.000	4979.000	1536.000	4985.000	1534.500	5000.000
GR	1536.000	5008.000	1538.000	5015.000	1540.000	5025.000	1540.000	5045.000	1538.500	5065.000
GR	1540.000	5080.000	1542.000	5095.000	1544.000	5105.000	1546.000	5130.000	.000	.000

ET	.000	.000	9.100	.000	.000	.000	.000	.000	4945.000	5095.000
X1	10.382	17.000	4975.000	5065.000	530.000	500.000	520.000	.000	.000	.000
GR	1546.000	4887.500	1546.000	4888.000	1546.000	4889.000	1546.000	4890.000	1544.000	4915.000
GR	1542.000	4975.000	1540.000	4987.000	1538.000	4992.000	1536.500	5000.000	1538.000	5010.000
GR	1540.000	5065.000	1538.000	5072.000	1540.000	5080.000	1542.000	5090.000	1544.000	5155.000
GR	1546.000	5230.000	1548.000	5315.000	.000	.000	.000	.000	.000	.000

GT	4.000	3845.000	3845.000	3125.000	1775.000	.000	.000	.000	.000	.000
ET	.000	.000	9.100	.000	.000	.000	.000	.000	4935.000	5070.000
X1	10.444	14.000	4970.000	5145.000	360.000	310.000	330.000	.000	.000	.000
GR	1550.000	4680.000	1548.000	4710.000	1546.000	4780.000	1544.000	4870.000	1544.000	4910.000
GR	1542.000	4935.000	1540.000	4970.000	1540.000	5070.000	1542.000	5090.000	1544.000	5125.000
GR	1546.000	5145.000	1544.000	5250.000	1546.000	5300.000	1548.000	5350.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO 2.737
     2.74     9.45  1346.95      .00  1343.00  1347.11      .16      .00      .00  1338.00
   11688.    6073.    4061.    1554.    3980.     834.     695.       0.       0.  1340.00
      .00     1.53     4.87     2.24     .100     .050     .100     .000  1337.50  3616.28
  .001697       0.       0.       0.        0        0        6      .00  1575.17  5191.45
0
 FLOW DISTRIBUTION FOR SECNO=      2.74          CWSEL=   1346.95          1523

 STA=    3616.    4090.    4280.    4555.    4624.    4718.    4774.    4895.    4942.    4980.    5085.    5140.    5162.
   PER Q=      3.2      3.9      7.8      3.6      8.3      5.0      9.1      4.8      6.3     34.7      9.0      3.1
    AREA=    522.8    428.2    757.2    272.8    512.6    305.4    599.4    273.8    302.2    833.9    433.7    158.5
     VEL=       .7      1.1      1.2      1.5      1.9      1.9      1.8      2.0      2.4      4.9      2.4      2.3
 STA=    5162.    5191.
   PER Q=      1.2
    AREA=    102.4
     VEL=      1.4

 *SECNO 2.811
     2.81     8.70  1347.70      .00      .00  1347.83      .13      .71      .00  1340.00
   11688.    6582.    3094.    2011.    3577.     671.    1084.      54.      13.  1342.30
      .05     1.84     4.61     1.86     .100     .050     .100     .000  1339.00  4244.97
  .001659      450.      390.      400.        2        0        0      .00  1028.63  5273.59

 FLOW DISTRIBUTION FOR SECNO=      2.81          CWSEL=   1347.70

 STA=    4245.    4380.    4580.    4625.    4705.    4750.    4810.    4952.    4970.    5060.    5240.    5274.
   PER Q=      3.0     13.7      5.2      7.4      4.1      6.9     13.8      2.2     26.5     16.2      1.0
    AREA=    312.6    939.8    290.2    450.4    252.0    386.9    824.3    120.6    671.2    998.8     85.5
     VEL=      1.1      1.7      2.1      1.9      1.9      2.1      2.0      2.1      4.6      1.9      1.4

 *SECNO 2.890
     2.89     6.87  1348.37      .00      .00  1348.48      .11      .65      .00  1344.00
   11688.    3875.    3969.    3844.    2530.    1006.    2104.     103.      23.  1344.00
      .09     1.53     3.94     1.83     .100     .050     .100     .000  1341.50  4286.80
  .001673      380.      420.      380.        1        0        0      .00  1266.32  5553.12
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.89          CWSEL=   1348.37

 STA=    4287.    4491.    4550.    4612.    4695.    4745.    4860.    4957.    5129.    5200.    5281.    5332.    5425.
   PER Q=      5.9      3.6      4.1      5.3      3.3      5.9      5.0     34.0      4.3      4.9      4.4     10.6
    AREA=    540.9    257.5    286.1    374.0    230.7    455.9    384.6   1006.4    303.9    353.5    273.6    591.9
     VEL=      1.3      1.6      1.7      1.7      1.7      1.5      1.5      3.9      1.6      1.6      1.9      2.1
 STA=    5425.    5521.    5553.
   PER Q=      8.2       .5
    AREA=    515.0     59.8
     VEL=      1.9      1.1
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*SECNO 3.023

3265 DIVIDED FLOW

     3.02     7.42  1349.92      .00      .00  1350.13      .21     1.62      .03  1344.00
   11688.    2565.    3278.    5845.    1600.     546.    2347.     182.      45.  1350.00
      .15     1.60     6.00     2.49     .100     .050     .100     .000  1342.50  4177.25
  .003568     700.     700.     670.        2        0        0      .00  1443.34  5623.48
0
 FLOW DISTRIBUTION FOR SECNO=      3.02          CWSEL=   1349.92

 STA=    4177.    4360.    4631.    4795.    4829.    4948.    4958.    5045.    5175.    5321.    5450.    5535.    5565.
   PER Q=      3.5      5.1      3.2      4.6      4.6      1.1     28.0      3.4     13.2     16.4     12.5      3.2
    AREA=    307.4    461.4    280.0    189.7    312.3     49.2    546.4    251.5    645.0    698.9    503.0    147.5
     VEL=      1.3      1.3      1.3      2.8      1.7      2.5      6.0      1.6      2.4      2.7      2.9      2.6
 STA=    5565.    5623.
   PER Q=      1.3
    AREA=    101.1
     VEL=      1.5

 *SECNO 3.199
     3.20     7.95  1353.95      .00      .00  1354.34      .39     4.15      .05  1350.00
   11688.    3961.    3480.    4247.    2052.     409.    1630.     270.      75.  1350.00
      .21     1.93     8.51     2.61     .100     .050     .100     .000  1346.00  3900.51
  .006121     825.     930.     940.        3        0        0      .00  1638.68  5539.19
0
 FLOW DISTRIBUTION FOR SECNO=      3.20          CWSEL=   1353.95

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 STA=    3901.    4160.    4375.    4530.    4658.    4798.    4968.    5025.    5072.    5115.    5290.    5380.    5510.
   PER Q=      3.2      5.2      4.4      5.5      5.3     10.2     29.8      4.3      4.8     15.4      6.0      5.5
    AREA=    290.2    364.7    286.9    302.1    307.0    500.9    408.9    177.0    182.7    646.9    283.2    311.5
     VEL=      1.3      1.7      1.8      2.1      2.0      2.4      8.5      2.8      3.1      2.8      2.5      2.1
 STA=    5510.    5539.
   PER Q=       .3
    AREA=     28.4
     VEL=      1.1

 *SECNO 3.360
     3.36     7.90  1358.30      .00      .00  1358.46      .17     4.10      .02  1354.00
   11688.    5201.    2441.    4045.    2867.     398.    2051.     361.     114.  1354.00
      .29     1.81     6.14     1.97     .100     .050     .100     .000  1350.50  3788.18
  .003993     840.     850.     830.        3        0        0      .00  2347.28  6135.46
0
 FLOW DISTRIBUTION FOR SECNO=      3.36          CWSEL=   1358.30

 STA=    3788.    4060.    4190.    4290.    4405.    4579.    4688.    4785.    4830.    4965.    5032.    5115.    5172.
   PER Q=      6.1      3.4      3.3      3.1      5.6      3.9      3.1      3.4     12.5     20.9      6.2      4.5
    AREA=    486.6    265.9    229.5    239.5    399.4    268.2    222.7    170.8    584.9    397.8    315.0    224.6
     VEL=      1.5      1.5      1.7      1.5      1.6      1.7      1.6      2.3      2.5      6.1      2.3      2.4
 STA=    5172.    5218.    5241.    5300.    5420.    5600.    6135.
   PER Q=      5.5      4.8      3.5      3.9      4.4      1.9
    AREA=    226.1    162.0    191.4    275.4    343.2    313.6
     VEL=      2.8      3.4      2.2      1.6      1.5       .7

 *SECNO 3.521
     3.52     5.05  1362.06      .00      .00  1367.19      .23     6.70      .02  1360.00
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   11688.    5160.    1901.    4627.    2075.     243.    1995.     452.     155.   1360.00
      .36     2.49     7.84     2.32     .100     .050     .100     .000  1357.00  4112.85
  .008576     830.     850.     830.        3        0        0      .00  2028.40  6141.25
0
 FLOW DISTRIBUTION FOR SECNO=      3.52          CWSEL=   1362.96

 STA=    4113.    4250.    4450.    4595.    4815.    4980.    5030.    5080.    5252.    5410.    5522.    5625.    5840.
   PER Q=      6.2     11.6      7.4     10.3      8.7     16.3      4.6      9.0      8.3      7.7      4.4      3.9
    AREA=    297.3    520.6    349.7    502.2    404.8    242.7    170.2    421.9    387.6    321.5    222.7    276.2
     VEL=      2.4      2.6      2.5      2.4      2.5      7.8      3.1      2.5      2.5      2.8      2.3      1.6
 STA=    5840.    6141.
   PER Q=      1.7
    AREA=    194.5
     VEL=      1.0

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 3.636
      3.64     5.76  1366.76      .00      .00  1366.86      .10     3.66      .01  1364.00
   11688.    5840.    1591.    4257.    3295.     294.    2872.     530.     193.   1364.00
      .44     1.77     5.40     1.48     .100     .050     .100     .000  1361.00  3398.99
  .004181     680.     610.     580.        3        0        0      .00  3164.72  6763.71
0                                                                                   3149
 FLOW DISTRIBUTION FOR SECNO=      3.64          CWSEL=   1366.76

 STA=    3599.    3932.    4085.    4215.    4300.    4368.    4555.    4650.    4735.    4845.    4970.    5032.    5112.
   PER Q=      7.7      6.8      5.0      3.0      3.5      6.8      3.5      3.9      5.6      4.1     13.6      4.2
    AREA=    596.4    422.9    326.8    205.2    203.3    456.4    233.6    240.0    326.6    284.3    294.4    241.1
     VEL=      1.5      1.9      1.8      1.7      2.0      1.7      1.8      1.9      2.0      1.7      5.4      2.0
 STA=    5112.    5195.    5390.    5522.    5595.    6060.    6285.    6665.    6764.
   PER Q=      3.6      6.3      4.2      3.3      5.3      4.8      4.6       .2
    AREA=    222.4    441.5    298.9    201.8    550.8    396.9    480.4     37.7
     VEL=      1.9      1.7      1.7      1.9      1.1      1.4      1.1       .5

 *SECNO 3.797
      3.80     4.47  1371.47      .00      .00  1371.59      .12     4.72      .01  1369.00   1369
   11688.    1557.    9324.     807.     644.    3191.     571.     635.     248.   1370.00
      .53     2.42     2.92     1.41     .000     .000     .000     .000  1367.00  4058.48
  .008015     780.     850.     890.        4        0        0      .00  2587.29  6615.77
0                                                                                   2476
 FLOW DISTRIBUTION FOR SECNO=      3.80          CWSEL=   1371.47

 STA=    4058.    4150.    4255.    4375.    4455.    5825.    6055.    6322.    6510.    6616.
   PER Q=       .8      4.2      4.8      3.5     79.8      3.1      2.2      1.5       .1
    AREA=     67.0    195.8    223.7    157.1   3191.2    221.8    190.7    134.3     24.6
     VEL=      1.4      2.5      2.5      2.6      2.9      1.6      1.3      1.3       .6

 *SECNO 3.958
      3.96     4.51  1376.51      .00      .00  1376.61      .10     5.02      .00  1372.50   1372
   11688.     506.    7368.    3814.     194.    2771.    1771.     714.     287.   1374.50
      .61     2.61     2.66     2.15     .000     .000     .000     .000  1372.00  4464.64
  .005455     400.     850.     630.        4        0        0      .00  2185.20  6649.84
0                                                                                   2133-
 FLOW DISTRIBUTION FOR SECNO=      3.96          CWSEL=   1376.51

 STA=    4465.    4475.    4515.    4555.    5582.    5820.    5945.    6250.    6510.    6650.
   PER Q=       .0       .9      3.4     63.0     10.9      6.8     11.5      3.1       .2
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    VEL=      .6      1.8      3.0      2.7      2.4      2.5      2.2      1.4      .6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

 *SECNO 4.053
     4.05     4.31  1379.31      .00      .00  1379.40      .10     2.79      .00  1375.50
   11688.      748.     7214.    3726.     277.    2672.    1821.     772.     314.   1377.50
      .67     2.70     2.70     2.05     .000     .000     .000     .000  1375.00  4370.37
  .005100     450.     500.     600.        3        0        0      .00  2103.13  6473.50
0
 FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1379.31

 STA=    4370.    4390.    4435.    4480.    5400.    5605.    5900.    6185.    6426.    6474.
   PER Q=      .1      2.1      4.2     61.7      7.7     13.5      8.7      1.9       .0
   AREA=    12.8    103.9    160.1   2671.7    422.0    681.0    515.4    194.8      7.3
    VEL=     1.0      2.3      3.1      2.7      2.1      2.3      2.0      1.2       .4

 *SECNO 4.157
     4.16     6.39  1381.89      .00      .00  1381.98      .09     2.57      .00  1380.00
   11625.    1532.     6448.    3646.     714.    2445.    1885.     834.     341.   1380.00
      .74     2.14     2.64     1.93     .080     .080     .080     .000  1375.50  4091.81
  .004327     470.     550.     570.        2        0        0      .00  2123.18  6214.99
0
 FLOW DISTRIBUTION FOR SECNO=      4.16          CWSEL=   1381.89

 STA=    4092.    4125.    4265.    4410.    5180.    5565.    5930.    6085.    6215.
   PER Q=      .3      6.3      6.5     55.5     14.5     13.7      2.8       .4
   AREA=    31.5    335.5    347.5   2444.5    826.4    783.5    216.5     58.3
    VEL=     1.2      2.2      2.2      2.6      2.0      2.0      1.5       .7

 *SECNO 4.275

 3265 DIVIDED FLOW

     4.28     4.50  1384.50      .00      .00  1384.63      .13     2.64      .01  1382.00
   11625.    3171.     3039.    5415.    1489.     683.    2808.     907.     371.   1382.00
      .80     2.13     4.45     1.93     .090     .050     .090     .000  1380.00  4201.19
  .004061     550.     620.     680.        2        0        0      .00  1988.62  6294.50
0
 FLOW DISTRIBUTION FOR SECNO=      4.28          CWSEL=   1384.50

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

 STA=    4201.    4295.    4370.    4570.    4600.    4650.    4715.    4790.    4870.    5060.    5160.    5255.    5595.
   PER Q=     3.6      3.1      3.4      3.0      4.2      3.2      3.2      3.6     26.1      3.5      3.3     16.5
   AREA=   217.9    181.8    194.5    127.7    190.4    178.0    190.6    208.1    683.5    225.8    214.5    930.1
    VEL=     1.9      2.0      2.0      2.8      2.6      2.1      2.0      2.0      4.4      1.8      1.8      2.1
 STA=    5595.    5875.    6080.    6295.
   PER Q=    18.7      3.0      1.6
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```
    VEL=      2.1       1.7       1.0

*SECNO 4.405
     4.41      5.71  1387.71       .00       .00  1388.05       .35      3.36       .07  1384.00
   11625.      850.     5730.     5046.      298.      903.     2481.      976.      400.  1386.00
      .85      2.85      6.35      2.03      .090      .050      .090      .000  1382.00  4782.13
  .005931      670.      690.      700.         2         0         0       .00  1581.55  6363.68
0
FLOW DISTRIBUTION FOR SECNO=      4.41          CWSEL=   1387.71

STA=    4782.     4860.     4880.     5075.     5238.     5375.     5770.     6100.     6364.
  PER Q=      5.1       2.2      49.3       5.2       4.1      16.3      13.6       4.2
   AREA=    218.8      79.3     902.5     307.6     251.0     875.1     731.1     316.2
    VEL=      2.7       3.2       6.3       2.0       1.9       2.2       2.2       1.5

*SECNO 4.539
     4.54      5.88  1391.38       .00       .00  1391.64       .25      3.58       .01  1390.00
   11625.       14.     5065.     6547.       16.      888.     3270.     1036.      425.  1386.00
      .90       .88      5.70      2.00      .090      .050      .090      .000  1385.50  4869.72
  .004651      730.      705.      660.         2         0         0       .00  1752.42  6622.14
0
FLOW DISTRIBUTION FOR SECNO=      4.54          CWSEL=   1391.38

STA=    4870.     4892.     5080.     5091.     5218.     5281.     5475.     5885.     6375.     6622.
  PER Q=       .1      43.6       1.2       9.4       4.1       9.5      17.0      13.7       1.3
   AREA=     15.5     888.3      48.3     430.8     198.0     512.6     980.9     927.2     172.1
    VEL=       .9       5.7       3.0       2.5       2.4       2.2       2.0       1.7        .9

*SECNO 4.679
     4.68      9.35  1394.35       .00       .00  1394.58       .23      2.93       .00  1392.00
   11625.     5136.     4927.     1562.     1902.      956.     1267.     1105.      454.  1392.00
      .96      2.70      5.15      1.23      .090      .050      .090      .000  1385.00  4295.54
  .003493      765.      740.      700.         2         0         0       .00  1820.78  6116.32
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

FLOW DISTRIBUTION FOR SECNO=      4.68          CWSEL=   1394.35

STA=    4296.     4500.     4535.     4575.     4590.     4710.     4900.     5090.     5255.     5835.     6116.
  PER Q=      4.8       9.3      12.7       3.5       8.3       5.5      42.4       4.2       8.1       1.1
   AREA=    337.2     277.5     354.3     110.4     422.8     400.3     956.3     321.4     787.0     158.7
    VEL=      1.7       3.9       4.2       3.7       2.3       1.6       5.2       1.5       1.2        .8

*SECNO 4.810
     4.81      5.83  1397.33       .00       .00  1397.62       .29      3.03       .02  1394.00
   11625.     5069.     5496.     1060.     2042.      949.      797.     1167.      482.  1396.60
     1.01      2.48      5.79      1.33      .090      .050      .090      .000  1391.50  4088.32
  .005748      700.      690.      620.         2         0         0       .00  1807.27  5895.59
0
FLOW DISTRIBUTION FOR SECNO=      4.81          CWSEL=   1397.33

STA=    4088.     4158.     4203.     4282.     4350.     4550.     4900.     5130.     5620.     5896.
  PER Q=      3.8       5.1       8.9       5.5       8.9      11.5      47.3       6.4       2.7
   AREA=    179.7     183.9     322.8     226.9     467.3     661.5     948.9     548.9     247.8
    VEL=      2.5       3.2       3.2       2.8       2.2       2.0       5.8       1.4       1.3

*SECNO 4.974
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   11625.    3284.    5088.    3253.    1599.     862.    1410.    1238.     514.   1398.00
    1.07     2.05     5.90     2.31     .090     .050     .090     .000  1395.00  4179.53
  .004974    785.     870.     785.        4        0        0      .00  1757.48  5937.01
0
 FLOW DISTRIBUTION FOR SECNO=      4.97          CWSEL=   1401.75

 STA=    4180.    4280.    4482.    4625.    4810.    4898.    5080.    5180.    5219.    5250.    5370.    5508.    5937.
   PER Q=     4.2     12.6      4.5      4.7      2.2     43.8      3.4      7.6      6.6      4.3      3.6      2.5
    AREA=   233.8    605.1    283.1    323.0    153.6    861.7    204.6    231.6    193.6    246.5    241.9    292.0
     VEL=     2.1      2.4      1.9      1.7      1.7      5.9      1.9      3.8      3.9      2.0      1.7      1.0

 1490 NH CARD USED
 *SECNO 5.099
     5.10     6.80  1404.80      .00      .00  1404.89      .09     2.85      .02  1402.00
   11625.     602.   10793.     230.     292.     4512.     271.    1307.     543.   1404.00
    1.15     2.06     2.39      .85     .080     .075     .100     .000  1399.00  3710.76
  .003675    780.     660.     590.        3        0        0      .00  2039.54  5750.30
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.10          CWSEL=   1404.80

 STA=    3711.    3938.    5448.    5750.
   PER Q=     5.2     92.8      2.0
    AREA=   292.4   4511.8    270.9
     VEL=     2.1      2.4       .8

 1490 NH CARD USED
 *SECNO 5.217
     5.22     6.46  1407.46      .00      .00  1407.63      .17     2.72      .03  1404.00
   11625.     777.   10838.      10.     227.     3279.      24.    1368.     570.   1407.00
    1.20     3.43     3.31      .41     .050     .055     .100     .000  1401.00  3866.58
  .005290    660.     620.     560.        1        0        0      .00  1734.12  5600.70
0
 FLOW DISTRIBUTION FOR SECNO=      5.22          CWSEL=   1407.46

 STA=    3867.    4010.    5500.    5601.
   PER Q=     6.7     93.2       .1
    AREA=   226.7   3279.1     23.6
     VEL=     3.4      3.3       .4

 *SECNO 5.346
     5.35     5.56  1411.56      .00      .00  1411.86      .29     4.19      .04  1410.00
   11625.    2409.    5544.    3672.     967.     1002.    1183.    1420.     595.   1408.80
    1.25     2.49     5.53     3.10     .090     .050     .090     .000  1406.00  4336.64
  .007270    710.     680.     650.        4        0        0      .00  1491.46  5828.10
0
 FLOW DISTRIBUTION FOR SECNO=      5.35          CWSEL=   1411.56

 STA=    4337.    4555.    4610.    4715.    4815.    5125.    5165.    5215.    5290.    5460.    5828.
   PER Q=     5.2      3.7      8.7      3.1     47.7      3.3      6.9     14.7      5.3      1.4
    AREA=   306.3    154.7    332.2    173.4   1001.7    126.5    215.7    398.5    270.1    172.4
     VEL=     2.0      2.8      3.0      2.1      5.5      3.0      3.7      4.3      2.3       .9

 CCHV=     .300 CEHV=     .500
 1490 NH CARD USED
 *SECNO 5.490
     5.49     9.04  1416.04      .00      .00  1416.55      .52     6.53      .11  1410.00
```

```
   11625.    2581.    5298.    3746.    1237.     646.    1694.    1478.     622.   1412.00
     1.29     2.09     8.20     2.21     .091     .050     .090     .000  1407.00  4331.77
  .005141     800.     760.     720.        3        0        0      .00  1543.70  5875.47
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.49          CWSEL=   1416.04

 STA=    4332.    4542.    4621.    4812.    4949.    4960.    5045.    5090.    5116.    5175.    5353.    5528.    5655.
   PER Q=     3.0      4.6      3.6      8.0      3.0     45.6      4.2      3.5      5.6      6.1      5.3      4.8
    AREA=   230.7    240.1    294.0    416.4     55.4    645.8    181.8    131.0    237.3    358.2    313.1    259.0
     VEL=     1.5      2.2      1.4      2.2      6.2      8.2      2.7      3.1      2.7      2.0      2.0      2.1
 STA=    5655.    5875.
   PER Q=     2.8
    AREA=   213.5
     VEL=     1.5

 1490 NH CARD USED
 *SECNO 5.544

 3265 DIVIDED FLOW

     5.54     9.54  1417.54      .00      .00  1417.80      .26     1.17      .08  1417.50
   11625.     363.    5729.    5533.     305.    1066.    2430.    1503.     631.   1412.00
     1.31     1.19     5.38     2.28     .038     .040     .085     .000  1408.00  4376.34
  .003223     260.     290.     300.        2        0        0      .00  1444.89  5965.25
0
 FLOW DISTRIBUTION FOR SECNO=      5.54          CWSEL=   1417.54

 STA=    4376.    4805.    5065.    5100.    5230.    5275.    5370.    5495.    5850.    5965.
   PER Q=     3.1     49.3      8.8     16.3      4.1      4.4      4.5      9.9       .7
    AREA=   304.7   1065.8    193.8    719.8    204.1    208.5    285.8    649.3     88.5
     VEL=     1.2      5.4      5.3      2.6      2.3      1.8      1.8      1.6       .9

 1490 NH CARD USED
 *SECNO 5.579

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

     5.58     9.00  1418.00      .00      .00  1419.10     1.10      .88      .42  1420.00
   11560.     661.   10899.       0.     266.    1260.       0.    1516.     636.   1418.00
     1.32     2.48     8.65      .00     .086     .050     .100     .000  1409.00  4579.93
  .006149     130.     190.     260.        2        0        0      .00   291.09  5879.01
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
```

```
 STA=    4580.    4645.    4698.    5079.
  PER Q=      3.9      1.9     94.3
   AREA=    161.3    105.0   1259.5
    VEL=      2.8      2.0      8.7

 CHV=    .100 CEHV=    .300
1490 NH CARD USED
*SECNO 5.645

3301 HV CHANGED MORE THAN HVING

     5.64     9.12  1420.12      .00      .00  1420.26      .14     1.07      .10  1417.00
   11560.    4019.    3989.    3552.    2113.     894.    2084.    1538.     641.  1416.00
     1.35     1.90     4.46     1.70     .036     .050     .099     .000  1411.00  4370.35
  .002102     325.     350.     180.        3        0        0      .00  1459.59  5829.94
0
 FLOW DISTRIBUTION FOR SECNO=      5.64          CWSEL=   1420.12

 STA=    4370.    4500.    4655.    4760.    4805.    4830.    4915.    5065.    5095.    5120.    5145.    5200.    5365.
  PER Q=      4.4      9.7      5.9      4.0      4.7      6.0     34.5      3.6      5.3      5.3      4.6      3.9
   AREA=    285.5    619.3    406.8    230.6    200.6    370.6    893.7    183.7    215.6    215.6    266.8    375.5
    VEL=      1.9      1.8      1.7      2.0      2.7      1.9      4.5      2.3      2.9      2.9      2.0      1.2
 STA=    5365.    5655.    5830.
  PER Q=      6.6      1.4
   AREA=    646.1    180.9
    VEL=      1.2       .9

1490 NH CARD USED
*SECNO 5.717

3265 DIVIDED FLOW

     5.72     8.61  1421.61      .00      .00  1421.84      .23     1.55      .03  1419.50
   11560.     241.    11002.     316.     121.    2777.     235.    1576.     654.  1420.20
     1.38     2.00     3.96     1.35     .037     .069     .099     .000  1413.00  4361.63
  .008831     410.     410.     400.        2        0        0      .00  1378.99  5810.49
0
 FLOW DISTRIBUTION FOR SECNO=      5.72          CWSEL=   1421.61

 STA=    4362.    4442.    5455.    5810.
  PER Q=      2.1     95.2      2.7
   AREA=    120.6   2776.8    235.1
    VEL=      2.0      4.0      1.3

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 5.777

3265 DIVIDED FLOW

     5.78     6.78  1423.78      .00      .00  1424.02      .24     2.19      .00  1421.00
   11560.    4365.    5526.    1668.    1915.    1056.     945.    1602.     666.  1422.50
     1.40     2.29     5.23     1.77     .100     .050     .091     .000  1417.00  4196.60
  .005437     300.     320.     350.        3        0        0      .00  1692.27  5976.81
0
 FLOW DISTRIBUTION FOR SECNO=      5.78          CWSEL=   1423.78
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 STA=    4197.    4445.    4540.    4680.    4795.    4825.    4875.    5160.    5365.    5395.    5500.    5760.    5977.
   PER Q=      9.1      6.5      7.3      6.9      3.5      4.4     47.8      4.0      3.5      3.0      3.9       .1
    AREA=    540.9    311.6    389.2    348.5    135.9    183.0   1056.1    317.4    133.4    180.7    295.3     18.1
     VEL=      1.9      2.4      2.2      2.3      3.0      2.7      5.2      1.5      3.0      1.9      1.5       .4

 1490 NH CARD USED
 *SECNO 5.940

 3265 DIVIDED FLOW

      5.84     6.39  1425.88      .00      .00  1426.00      .12     1.97      .01  1424.00
    11560.     433.    10479.     648.     293.     3628.     364.    1634.     679.   1424.00
      1.44     1.48     2.89     1.78     .085     .084     .080     .000  1419.50  4109.03
   .006212     300.     350.     340.        1        0        0      .00  1842.70  6017.93
0
 FLOW DISTRIBUTION FOR SECNO=      5.84          CWSEL=   1425.88

 STA=    4109.    4390.    5612.    5718.    6018.
   PER Q=      3.7     90.6      3.8      1.8
    AREA=    292.9   3627.5    198.4    166.0
     VEL=      1.5      2.9      2.2      1.2

 1490 NH CARD USED
 *SECNO 5.961
      5.96     3.96  1429.26      .00      .00  1429.39      .14     3.39      .00  1427.50
    11560.     312.    10824.     425.     237.     3554.     283.    1696.     706.   1426.50
      1.50     1.32     3.05     1.50     .097     .061     .100     .000  1425.30  4088.05
   .004537     620.     640.     710.        3        0        0      .00  1752.43  5840.49
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      5.96          CWSEL=   1429.26

 STA=    4088.    4275.    5665.    5790.    5840.
   PER Q=      2.7     93.6      3.5       .2
    AREA=    236.8   3553.8    251.5     31.9
     VEL=      1.3      3.0      1.6       .7

 1490 NH CARD USED
 *SECNO 6.082

 3265 DIVIDED FLOW

      6.08     3.94  1432.94      .00      .00  1433.04      .10     3.64      .00  1430.00
    11560.    3860.    7208.     492.    1620.     2747.     285.    1758.     736.   1431.00
      1.57     2.38     2.62     1.72     .090     .087     .080     .000  1429.00  3570.25
   .007659     550.     640.     750.        3        0        0      .00  2436.03  6014.45
0
 FLOW DISTRIBUTION FOR SECNO=      6.08          CWSEL=   1432.94

 STA=    3570.    3935.    4070.    4140.    4225.    4505.    5695.    5830.    6014.
   PER Q=      8.8      8.1      4.1      3.9      8.4     62.4      3.2      1.0
    AREA=    469.3    369.4    188.3    194.9    397.9   2747.0    184.4    101.1
     VEL=      2.2      2.5      2.5      2.3      2.5      2.6      2.0      1.2

 *SECNO 6.200
      6.20     3.55  1437.05      .00      .00  1437.17      .12     4.17      .01  1441.50
```

```
   11560.      0.   11300.     252.      0.    4005.     175.    1807.     759.   1435.50
     1.61     .00     2.82     1.44    .100     .100     .100     .000  1433.50  4384.59
  .009794    400.     490.     600.       3        0        0      .00  1720.27  6104.86
0
 FLOW DISTRIBUTION FOR SECNO=      6.20          CWSEL=   1437.05

 STA=    4385.    5890.    5970.    6100.    6105.
   PER Q=     97.8      1.6       .6       .0
    AREA=   4005.0    103.9     71.3       .1
     VEL=      2.8      1.8      1.0       .1

 *SECNO 6.293
     6.29     3.66  1440.16      .00      .00  1440.22      .06     3.04      .01  1440.00
   11560.       0.     9898.    1662.       0.    4822.     952.    1861.     779.   1438.00
     1.68     .19     2.05     1.75    .100     .100     .100     .000  1435.50  4193.36
  .004476    400.     490.     340.       3        0        0      .00  2080.74  6274.10
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      6.29          CWSEL=   1440.16

 STA=    4193.    4195.    5820.    5925.    6105.    6270.    6274.
   PER Q=       .0     85.6      4.6      7.9      1.8       .0
    AREA=       .1   4821.6    279.7    479.5    192.1       .3
     VEL=       .2      2.1      1.9      1.9      1.1       .2

 *SECNO 6.395

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1442.50 ELREA=     1444.00

     6.39     3.70  1442.70      .00      .00  1442.76      .06     2.54      .00  1442.50
   11560.     231.    11329.       0.     249.    5905.       0.    1934.     809.   1444.00
     1.76     .93     1.92      .00     .100     .100     .100     .000  1439.00  3763.64
  .005070    460.     540.     450.       3        0        0      .00  2742.71  6506.36
0
 FLOW DISTRIBUTION FOR SECNO=      6.39          CWSEL=   1442.70

 STA=    3764.    3820.    3980.    4088.    6610.
   PER Q=       .1      1.4       .6     98.0
    AREA=     19.9    152.7     76.1   5905.1
     VEL=       .5      1.0       .8      1.9

 *SECNO 6.520
     6.52     3.48  1445.48      .00      .00  1445.52      .05     2.76      .00  1444.00
   11560.     252.     9217.    2092.     234.    5100.    1399.    2029.     848.   1442.50
     1.86     1.00     1.81     1.50    .100     .100     .100     .000  1442.00  4023.52
  .003663    530.     660.     530.       2        0        0      .00  2758.10  6781.61
0
 FLOW DISTRIBUTION FOR SECNO=      6.52          CWSEL=   1445.48

 STA=    4024.    4090.    4215.    6005.    6270.    6455.    6490.    6505.    6525.    6710.    6782.
   PER Q=       .3      1.9     79.7     11.0      4.5       .5       .3       .4      1.4       .1
    AREA=     49.1    184.7   5099.6    722.8    365.8     51.7     23.9     34.5    180.8     17.1
     VEL=       .7      1.2      1.8      1.8      1.4      1.2      1.3      1.3       .9       .3

 *SECNO 6.645
     6.64     4.24  1448.24      .00      .00  1448.29      .05     2.77      .00  1448.00
```

```
     1.96      .25     1.90     1.63     .100     .100     .100     .000  1444.00  4199.57
   .004634     550.     660.     740.       2        0        0      .00  2686.67  6886.23
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      6.64          CWSEL=   1448.24

 STA=    4200.    4235.    6140.    6285.    6355.    6450.    6510.    6521.    6535.    6575.    6855.    6886.
   PER Q=      .0     80.6      4.9      3.3      3.2      2.0       .5       .7      1.3      3.5       .0
    AREA=     4.3   4905.1    324.8    191.8    212.8    134.4     30.1     38.4     89.6    347.3      3.8
     VEL=      .2      1.9      1.7      2.0      1.7      1.7      2.0      2.0      1.7      1.2       .2

 *SECNO 6.787
     6.79     4.99  1450.99      .00      .00  1451.03      .04     2.74      .00  1451.00
   11560.       0.     7438.    4122.       0.    4728.    2664.    2244.     937.   1447.00
     2.09      .00     1.57     1.55     .100     .100     .100     .000  1446.00  4420.43
   .003069     630.     750.     690.       2        0        0      .00  2869.28  7289.71
0
 FLOW DISTRIBUTION FOR SECNO=      6.79          CWSEL=   1450.99

 STA=    4420.    6210.    6270.    6460.    6590.    6890.    6960.    7050.    7110.    7120.    7130.    7240.    7290.
   PER Q=     64.3      3.4      6.2      4.2     11.5      1.9      2.5      2.3       .5       .5      2.5       .1
    AREA=   4727.7    209.7    473.9    324.3    823.3    157.1    202.0    164.7     32.4     32.4    213.4     24.7
     VEL=      1.6      1.9      1.5      1.5      1.6      1.4      1.4      1.6      1.8      1.8      1.3       .5

 *SECNO 6.906
     6.91     4.78  1453.78      .00      .00  1453.84      .06     2.80      .01  1453.50
   11560.       2.     3340.    8218.       7.    2245.    3793.    2347.     985.   1452.00
     2.19      .31     1.49     2.17     .100     .100     .100     .000  1449.00  4572.87
   .006091     560.     630.     700.       3        0        0      .00  3367.30  7940.17
0
 FLOW DISTRIBUTION FOR SECNO=      6.91          CWSEL=   1453.78

 STA=    4573.    4620.    6165.    6350.    6508.    6582.    6705.    6745.    6782.    6820.    6911.    7072.    7398.
   PER Q=      .0     28.9      7.3     11.5      6.1     11.3      4.5      3.4      3.9      5.0      4.2      4.9
    AREA=     6.5   2245.1    421.3    517.8    261.0    464.6    171.1    139.8    153.0    252.7    286.1    416.4
     VEL=      .3      1.5      2.0      2.6      2.7      2.8      3.1      2.8      2.9      2.3      1.7      1.4
 STA=    7398.    7561.    7765.    7940.
   PER Q=     3.5      3.6      2.0
    AREA=   249.2    280.6    179.3
     VEL=     1.6      1.5      1.3

 *SECNO 7.020
     7.02     4.84  1457.84      .00      .00  1457.89      .05     4.04      .00  1457.50
   11499.       2.     2637.    8800.       6.    1718.    5021.    2454.    1044.   1455.50
     2.31      .32     1.57     1.75     .100     .100     .100     .000  1453.00  4677.29
   .004925     570.     600.     790.       5        0        0      .00  3789.78  8467.07
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST
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```
 FLOW DISTRIBUTION FOR SECNO=      7.02          CWSEL=   1457.84

 STA=    4677.    4710.    5640.    5795.    6030.    6345.    6952.    6988.    7019.    7100.    7204.    7368.    7595.
   PER Q=      .0     23.5      4.8      4.6      4.1     12.9      3.1      3.2      6.2      7.9      9.1      4.5
    AREA=     5.6   1718.1    324.1    373.8    388.6    883.6    138.3    134.6    290.8    373.4    483.9    361.1
     VEL=      .3      1.6      1.7      1.4      1.2      1.7      2.6      2.8      2.4      2.4      2.2      1.4
 STA=    7595.    7885.    8182.    8467.
   PER Q=     7.3      5.8      3.0
    AREA=   533.8    472.4    262.4
     VEL=     1.6      1.4      1.3

 *SECNO 7.134
      7.13     3.48  1460.98      .00      .00  1461.03      .05     3.14      .00  1460.50
     7430.      114.     3301.    4015.      126.     1833.    2139.    2531.     1085.   1459.00
      2.40      .91      1.80     1.88     .100      .100     .100     .000  1457.50  4371.08
   .005316     570.      600.     630.        2         0        0      .00  2007.12  6378.20
0
 FLOW DISTRIBUTION FOR SECNO=      7.13          CWSEL=   1460.98

 STA=    4371.    4430.    4480.    4545.    5400.    5600.    5858.    6011.    6170.    6208.    6325.    6378.
   PER Q=      .3       .7       .6     44.4     13.3     17.1      7.0      8.8      6.6      1.0       .2
    AREA=    28.9     49.1     47.6   1832.7    496.4    640.4    303.3    354.9    263.4     54.8     26.1
     VEL=      .7      1.1       .9      1.8      2.0      2.0      1.7      1.9      1.9      1.4       .7

 *SECNO 7.262
      7.26     4.60  1464.60      .00      .00  1464.67      .07     3.63      .00  1463.50
     3362.      21.     2887.     455.      27.     1319.     334.    2575.     1107.   1464.00
      2.49      .75      2.19     1.36     .100      .100     .100     .000  1460.00  4946.72
   .005883     630.      680.     630.        2         0        0      .00   893.64  5740.36
0
 FLOW DISTRIBUTION FOR SECNO=      7.26          CWSEL=   1464.60

 STA=    4847.    4895.    4910.    5405.    5470.    5565.    5645.    5740.
   PER Q=      .2       .4     85.9      4.8      7.1      1.2       .4
    AREA=    14.6     12.8   1318.7    104.2    152.3     48.3     28.8
     VEL=      .5      1.0      2.2      1.6      1.6       .8       .5

 *SECNO 7.410
      7.41     4.71  1468.71      .00      .00  1468.76      .05     4.09      .00  1466.00
     3362.     167.     2799.     396.     122.     1489.     332.    2605.     1122.   1467.00
      2.61     1.37      1.88     1.19     .100      .100     .100     .000  1464.00  4555.05
   .005200     800.      780.     460.        4         0        0      .00  1053.62  5608.68
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        DLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      7.41          CWSEL=   1468.71

 STA=    4555.    4610.    4670.    5310.    5575.    5609.
   PER Q=      .3     4.7     83.2     11.6       .2
    AREA=    19.5   102.5   1488.8    320.4     11.9
     VEL=      .5      1.5      1.9      1.2       .5

 *SECNO 7.520
      7.52     3.97  1471.97      .00      .00  1472.03      .06     3.27      .00  1469.70
     3420.     293.     3100.      27.     190.     1614.      38.    2631.     1136.   1471.00
      2.70     1.55      1.92     .70     .100      .100     .100     .000  1468.00  4300.88
   .005810     570.      580.     830.        3         0        0      .00   942.47  5243.35
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 FLOW DISTRIBUTION FOR SECNO=      7.52          CWSEL=   1471.37

 STA=    4301.    4385.    4435.    5165.    5243.
   PER Q=      2.7      5.8     90.6       .8
    AREA=     83.3    106.5   1613.7     38.4
     VEL=      1.1      1.9      1.9       .7

 *SECNO 7.643
     7.64     5.15  1475.15      .00      .00  1475.28      .12     3.23      .02  1472.00
    3420.    1111.    1467.     842.     730.     371.     554.    2657.    1151.   1474.00
     2.76     1.52     3.96     1.52     .090     .050     .090     .000  1470.00  4506.81
  .004389     580.     650.     700.        3        0        0      .00  1007.40  5514.20
0
 FLOW DISTRIBUTION FOR SECNO=      7.64          CWSEL=   1475.15

 STA=    4507.    4530.    4570.    4730.    4840.    4885.    4980.    5110.    5180.    5260.    5335.    5382.    5514.
   PER Q=      .3      3.0     11.9      4.5      1.8     11.0     42.9      2.9      6.9      9.7      3.5      1.7
    AREA=    13.4     66.4    265.5    127.6     52.2    205.2    370.8     81.2    144.8    173.2     78.0     76.7
     VEL=      .8      1.5      1.5      1.2      1.2      1.8      4.0      1.2      1.6      1.9      1.5       .8

 *SECNO 7.764

 3265 DIVIDED FLOW

     7.76     5.79  1478.29      .00      .00  1478.64      .35     3.30      .07  1476.00
    3420.    1033.    1623.     764.     598.     246.     479.    2677.    1164.   1476.00
     2.81     1.76     6.61     1.59     .090     .050     .090     .000  1472.50  4461.59
  .007179     580.     600.     610.        2        0        0      .00   981.00  5513.11
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      7.76          CWSEL=   1478.29

 STA=    4462.    4495.    4575.    4765.    4955.    5012.    5335.    5349.    5435.    5480.    5505.    5513.
   PER Q=      .1      1.2      8.4     20.6     47.5     20.3       .0       .0      1.3       .7       .0
    AREA=     4.9     43.6    198.5    341.0    245.6    418.2      2.0      2.3     35.8     19.9      1.2
     VEL=      .4       .9      1.4      2.1      6.6      1.7       .4       .4      1.2      1.2       .4

 *SECNO 7.868
     7.87     6.09  1482.09      .00      .00  1482.26      .17     3.61      .02  1480.00
    3420.    1447.    1164.     809.     738.     240.     369.    2695.    1175.   1480.00
     2.86     1.96     4.85     2.19     .090     .050     .090     .000  1476.00  4592.83
  .005213     605.     590.     580.        3        0        0      .00   587.59  5180.42
0
 FLOW DISTRIBUTION FOR SECNO=      7.87          CWSEL=   1482.09

 STA=    4593.    4665.    4705.    4738.    4825.    4911.    4955.    5025.    5138.    5160.    5180.
   PER Q=      7.2      5.7      5.6      9.6      8.3      5.9     34.0     19.2      3.7       .7
    AREA=   129.8     93.5     85.4    172.5    157.9     98.4    240.0    292.3     56.9     19.7
     VEL=      1.9      2.1      2.2      1.9      1.8      2.0      4.8      2.2      2.2      1.2

 *SECNO 7.969
     7.97     3.98  1484.40      .00      .00  1484.51      .11     2.24      .01  1482.00
    3480.     523.    1678.    1279.     391.     479.     821.    2714.    1184.   1482.50
     2.92     1.34     3.50     1.56     .090     .050     .090     .000  1480.50  4627.46
  .003491     460.     530.     600.        3        0        0      .00   885.49  5512.95
0
 FLOW DISTRIBUTION FOR SECNO=      7.97          CWSEL=   1484.40
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 STA=    4627.    4795.    4860.    4902.    4925.    5095.    5125.    5155.    5380.    5445.    5505.    5513.
   PER Q=      3.2      5.3      4.2      2.3     48.2      3.0      3.6     20.0      5.0      4.4       .0
    AREA=    127.7    123.4     90.2     49.4    479.1     64.4     71.9    449.5    129.8    103.9      1.6
     VEL=       .9      1.5      1.6      1.6      3.5      1.6      1.7      1.5      1.5      1.5       .3

 SECNO 8.073
     8.07     3.51  1486.91      .00      .00  1487.11      .20     2.57      .03  1485.00
    3480.     255.    1851.    1375.     198.     400.     704.    2732.    1194.  1485.00
     2.97     1.29     4.62     1.95     .090     .050     .090     .000  1483.40  4696.33
  .007135     530.     550.     510.        2        0        0      .00   835.09  5531.42
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.07          CWSEL=   1486.91

 STA=    4696.    4785.    4940.    5100.    5305.    5460.    5490.    5520.    5531.
   PER Q=      1.0      6.4     53.2     19.2     14.5      3.5      2.1       .1
    AREA=     40.5    157.1    400.2    341.0    257.9     57.4     42.4      5.2
     VEL=       .8      1.4      4.6      2.0      2.0      2.1      1.8       .8

 *SECNO 8.173
     8.17     4.60  1489.60      .00      .00  1489.69      .09     2.57      .01  1487.50
    3480.     951.    1317.    1212.     788.     366.    1002.    2754.    1209.  1487.50
     3.04     1.21     3.60     1.21     .090     .050     .090     .000  1485.00  4314.76
  .003148     650.     580.     510.        4        0        0      .00  1475.39  5790.15
0
 FLOW DISTRIBUTION FOR SECNO=      8.17          CWSEL=   1489.60

 STA=    4315.    4590.    4810.    4935.    5050.    5140.    5240.    5380.    5600.    5735.    5790.
   PER Q=      5.2     12.9      9.3     37.9      9.3      6.4      7.2      8.0      3.4       .5
    AREA=    203.2    352.7    231.6    365.6    202.8    169.1    208.2    262.7    128.9     30.4
     VEL=       .9      1.3      1.4      3.6      1.6      1.3      1.2      1.1       .9       .6

 *SECNO 8.298
     8.30     5.33  1492.33      .00      .00  1492.72      .39     2.94      .09  1489.50
    3480.     275.    2657.     547.     136.     467.     373.    2775.    1225.  1491.00
     3.08     2.02     5.70     1.47     .090     .050     .090     .000  1487.00  4768.06
  .008357     730.     630.     470.        2        0        0      .00   940.92  5708.99
0
 FLOW DISTRIBUTION FOR SECNO=      8.30          CWSEL=   1492.33

 STA=    4768.    4845.    4905.    4922.    5075.    5115.    5145.    5285.    5350.    5479.    5699.    5709.
   PER Q=       .2      4.2      3.6     76.4      5.9      3.9      3.2       .4       .9      1.5       .0
    AREA=     12.6     73.6     43.8    466.6     83.1     57.8     94.8     21.3     42.2     72.0      1.6
     VEL=       .5      1.8      2.8      5.7      2.5      2.3      1.2       .7       .7       .7       .5

 *SECNO 8.421
     8.42     6.28  1495.78      .00      .00  1495.95      .17     3.20      .02  1494.00
    3480.    1570.    1465.     445.     989.     312.     315.    2793.    1236.  1494.00
     3.14     1.59     4.70     1.41     .090     .050     .090     .000  1489.50  4459.19
  .003454     660.     650.     460.        2        0        0      .00   770.90  5230.09
0
1
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    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.42          CWSEL=   1495.78

 STA=    4459.    4575.    4760.    4940.    4970.    5040.    5110.    5120.    5135.    5140.    5190.    5230.
   PER Q=     2.7     20.4     19.8      2.2     42.1      5.1      1.1      1.7       .4      3.7       .9
   AREA=    103.2    422.1    410.7     53.5    312.0    124.7     22.8     34.2      8.9     89.1     35.7
    VEL=       .9      1.7      1.7      1.4      4.7      1.4      1.7      1.7      1.4      1.4       .9

 *SECNO 8.535
     8.53     5.26  1498.26      .00      .00  1498.51      .25     2.54      .02  1496.00
    3540.     574.    2682.     284.     324.     596.     212.    2813.    1246.  1496.00
     3.18     1.77     4.50     1.34     .090     .050     .090     .000  1493.00  4641.54
  .004837     720.     600.     480.        2        0        0      .00   607.91  5249.45
0
 FLOW DISTRIBUTION FOR SECNO=      8.53          CWSEL=   1498.26

 STA=    4642.    4670.    4810.    4825.    4840.    4860.    5045.    5110.    5235.    5249.
   PER Q=      .0      6.7      3.5      3.5      2.5     75.8      5.4      2.6       .0
   AREA=      3.7    176.8     48.9     48.9     45.3    596.1    114.6     55.3      1.9
    VEL=       .3      1.3      2.5      2.5      2.0      4.5      1.7      1.0       .3

 *SECNO 8.639
     8.64     5.94  1500.94      .00      .00  1501.19      .26     2.68      .00  1498.00
    3540.    2042.    1485.      13.     968.     238.      16.    2826.    1253.  1500.00
     3.22     2.11     5.77      .77     .090     .050     .090     .000  1495.00  4464.16
  .006083     420.     540.     550.        3        0        0      .00   615.80  5079.96
0
 FLOW DISTRIBUTION FOR SECNO=      8.64          CWSEL=   1500.94

 STA=    4464.    4515.    4560.    4760.    4920.    4960.    4980.    5045.    5080.
   PER Q=      .5      4.5     35.4     13.8      1.3      2.2     42.0       .4
   AREA=     23.7     82.4    516.4    269.1     37.3     38.6    257.6     16.3
    VEL=       .8      1.9      2.4      1.8      1.2      2.0      5.8       .8

 *SECNO 8.736
     8.74     6.60  1503.60      .00      .00  1503.86      .27     2.67      .00  1500.00
    3540.    1287.    2111.     141.     816.     407.      85.    2840.    1260.  1501.00
     3.26     1.58     5.19     1.66     .090     .050     .090     .000  1497.00  4442.00
  .004879     470.     510.     520.        2        0        0      .00   696.01  5138.00
0
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.74          CWSEL=   1503.60

 STA=    4442.    4512.    4560.    4650.    4740.    4799.    4870.    4925.    4965.    4979.    5090.    5110.    5138.
   PER Q=     4.4      3.4      4.1      3.4      5.4      5.7      4.6      3.3      2.1     59.6      3.4       .6
   AREA=    100.1     76.8    109.0     99.0    109.2    121.4     96.3     70.0     33.8    406.7     63.0     22.4
    VEL=      1.6      1.6      1.3      1.2      1.7      1.7      1.7      1.7      2.2      5.2      1.9      1.0

 *SECNO 8.851
     8.85     6.57  1506.57      .00      .00  1506.86      .28     2.99      .01  1504.50
    3540.     566.    1774.    1199.     259.     314.     568.    2855.    1267.  1504.00
     3.30     2.19     5.65     2.11     .090     .050     .090     .000  1500.00  4759.47
  .005670     450.     510.     510.        2        0        0      .00   570.69  5089.16
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0
 FLOW DISTRIBUTION FOR SECNO=      8.85          CWSEL=   1506.57

 STA=    4758.    4882.    4910.    4935.    5012.    5160.    5190.    5230.    5289.
   PER Q=     4.3      8.1      3.6     50.1     23.5      4.0      4.4      2.0
    AREA=   101.2    100.0     58.1    313.8    365.9     66.7     78.9     56.2
     VEL=     1.5      2.9      2.2      5.7      2.3      2.1      2.0      1.3

 *SECNO 8.950
      8.95     6.97  1509.17      .00      .00  1509.40      .23     2.54      .00  1506.00
     3540.      378.     1979.    1183.     304.     397.     667.    2871.    1275.  1506.00
      3.34     1.24     4.99     1.77     .090     .050     .090     .000  1502.20  4653.04
   .004228      510.     520.     530.        2        0        0      .00   707.52  5361.36
0
 FLOW DISTRIBUTION FOR SECNO=      8.95          CWSEL=   1509.17

 STA=    4654.    4730.    4760.    4905.    4930.    5025.    5075.    5100.    5335.    5361.
   PER Q=     1.0      1.2      5.7      2.8     55.9      9.1      3.9     20.3       .3
    AREA=    44.6     35.1    169.9     54.3    396.8    146.1     65.5    439.8     15.4
     VEL=      .8      1.2      1.2      1.8      5.0      2.2      2.0      1.6       .8

 *SECNO 9.043
      9.04     7.48  1511.18      .00      .00  1511.46      .27     2.04      .01  1508.00
     3540.      359.     2253.     928.     210.     442.     530.    2885.    1281.  1508.80
      3.37     1.71     5.10     1.75     .090     .050     .090     .000  1503.70  4856.45
   .004116      480.     490.     490.        2        0        0      .00   489.46  5345.92
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      9.04          CWSEL=   1511.18

 STA=    4856.    4880.    4970.    5070.    5170.    5300.    5346.
   PER Q=      .3      9.8     63.6     14.0     11.6       .6
    AREA=    13.9    196.0    441.9    252.7    250.6     27.0
     VEL=      .7      1.8      5.1      2.0      1.6       .7

 *SECNO 9.113
      9.11     7.71  1512.71      .00      .00  1512.97      .26     1.51      .00  1510.00
     3540.      462.     2043.    1035.     259.     391.     592.    2895.    1286.  1511.00
      3.40     1.78     5.22     1.75     .090     .050     .090     .000  1505.00  4771.87
   .004099      380.     370.     360.        1        0        0      .00   597.27  5369.14
0
 FLOW DISTRIBUTION FOR SECNO=      9.11          CWSEL=   1512.71

 STA=    4772.    4930.    4960.    4970.    5055.    5100.    5120.    5185.    5330.    5369.
   PER Q=     3.6      7.1      2.3     57.7      5.0      3.1     10.2     10.6       .2
    AREA=   120.6    103.9     34.6    391.0     99.5     54.2    176.3    248.2     13.9
     VEL=     1.1      2.4      2.4      5.2      1.8      2.1      2.1      1.5       .5

 SECNO 9.211
      9.21     8.07  1515.07      .00      .00  1515.56      .49     2.52      .07  1510.00
     3660.    1578.     1833.     249.     712.     241.     127.    2909.    1292.  1512.00
      3.43     2.22     7.59     1.97     .090     .050     .090     .000  1507.00  4606.03
   .005931      510.     520.     505.        2        0        0      .00   498.30  5104.33
0
 FLOW DISTRIBUTION FOR SECNO=      9.21          CWSEL=   1515.07
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  PER Q=      1.2     10.0     11.9      7.7      9.7      2.8     50.1      6.6       .2
   AREA=     50.5    212.5    180.2    104.5    132.2     32.6    241.4    115.1     10.4
    VEL=       .8      1.7      2.4      2.7      2.7      3.2      7.6      2.1       .8

 *SECNO 9.317

 265 DIVIDED FLOW

     9.32     8.04  1518.04      .00      .00  1518.43      .40     2.85      .01  1514.00
    3660.     555.     2563.     542.     261.     434.     343.    2922.    1299.  1514.00
     3.46     2.13     5.90     1.58     .090     .050     .090     .000  1510.00  4702.59
  .004455     560.     560.     560.        2        0        0      .00   568.54  5312.78
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      9.32          CWSEL=   1518.04

 STA=    4703.    4830.    4905.    4979.    5062.    5105.    5310.
  PER Q=      .0      1.0     14.2     70.0      8.2      6.6
   AREA=     4.6     31.1    224.7    434.3    130.6    212.6
    VEL=      .1      1.1      2.3      5.9      2.3      1.1

 *SECNO 9.402
     9.40     8.28  1520.78      .00      .00  1521.39      .60     2.89      .06  1518.00
    3660.     858.     2403.     400.     400.     319.     187.    2934.    1305.  1518.00
     3.49     2.14     7.54     2.14     .090     .050     .090     .000  1512.50  4754.38
  .007165     500.     520.     545.        1        0        0      .00   433.51  5189.89
0
 FLOW DISTRIBUTION FOR SECNO=      9.40          CWSEL=   1520.78

 STA=    4754.    4770.    4920.    4985.    5045.    5060.    5070.    5105.    5145.    5190.
  PER Q=      .1     11.6     11.7     65.6      3.6      2.4      3.5      1.0       .4
   AREA=     6.1    229.6    164.5    318.6     45.5     30.3     62.3     31.2     17.5
    VEL=      .7      1.9      2.6      7.5      2.9      2.9      2.1      1.2       .7

 *SECNO 9.473
     9.47     6.79  1523.29      .00      .00  1523.58      .29     2.16      .03  1520.00
    3660.     985.     1578.    1097.     503.     256.     493.    2943.    1309.  1520.00
     3.51     1.96     6.17     2.22     .090     .050     .090     .000  1516.50  4743.55
  .004849     370.     370.     370.        1        0        0      .00   495.69  5239.24
0
 FLOW DISTRIBUTION FOR SECNO=      9.47          CWSEL=   1523.29

 STA=    4744.    4768.    4981.    5030.    5109.    5200.    5239.
  PER Q=      .4     26.6     43.1     18.0     11.3       .6
   AREA=    15.7    487.1    255.5    259.6    208.1     25.2
    VEL=      .9      2.0      6.2      2.5      2.0       .9

 *SECNO 9.567
     9.57     9.21  1525.21      .00      .00  1525.57      .35     1.97      .02  1522.00
    3720.     605.     2231.     883.     372.     372.     485.    2957.    1315.  1522.00
     3.55     1.63     6.00     1.82     .090     .050     .090     .000  1516.00  4783.78
  .003311     500.     500.     490.        3        0        0      .00   461.93  5245.71
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      9.57          CWSEL=   1525.21

 STA=    4784.    4833.    4890.    4980.    5035.    5075.    5119.    5205.    5246.
   PER Q=      .5      3.6     12.1     60.0      7.2      7.9      8.3       .5
    AREA=    29.9     97.8    244.4    371.8    128.6    141.5    190.5     24.7
     VEL=      .7      1.4      1.8      6.0      2.1      2.1      1.6       .7

 *SECNO 9.649
     9.65     7.23  1526.73      .00      .00  1527.07      .34     1.50      .00  1521.50
    3720.    1157.    2140.     423.     399.     370.     299.    2968.    1319.   1524.00
     3.57     2.90     5.78     1.41     .090     .050     .090     .000  1519.50  4851.76
  .003744     440.     430.     400.        2        0        0      .00   386.55  5238.31
0
 FLOW DISTRIBUTION FOR SECNO=      9.65          CWSEL=   1526.73

 STA=    4852.    4870.    4918.    4925.    4930.    4938.    4945.    4970.    5035.    5200.    5238.
   PER Q=      .1      3.2      1.7      2.4      5.5      4.8     13.4     57.5     11.2       .2
    AREA=     6.7     83.0     26.1     28.6     56.8     48.9    149.5    370.4    285.4     14.0
     VEL=      .5      1.5      2.4      3.1      3.7      3.7      3.3      5.8      1.5       .5

 *SECNO 9.726
     9.73     7.78  1528.78      .00      .00  1529.46      .68     2.28      .10  1526.00
    3720.    1366.    2345.       9.     488.     291.      11.    2977.    1322.   1528.00
     3.59     2.80     8.05      .82     .090     .050     .090     .000  1521.00  4746.10
  .008630     450.     410.     340.        3        0        0      .00   314.68  5060.78

FLOW DISTRIBUTION FOR SECNO=      9.73          CWSEL=   1528.78

 STA=    4746.    4785.    4822.    4840.    4850.    4890.    4925.    4955.    4975.    5032.    5061.
   PER Q=      .3      4.0      4.7      2.6      9.1      7.9      4.9      3.2     63.0       .2
    AREA=    15.1     65.8     54.5     30.3    111.1     97.2     68.3     45.6    291.3     11.2
     VEL=      .8      2.2      3.2      3.2      3.0      3.0      2.7      2.7      8.0       .8

 *SECNO 9.791
     9.79     8.52  1531.02      .00      .00  1531.37      .35     1.88      .03  1526.00
    3720.    1588.    2116.       17.     797.     351.      25.    2984.    1325.   1530.00
     3.61     1.99     6.02      .68     .090     .050     .090     .000  1522.50  4650.03
  .004084     310.     340.     360.        2        0        0      .00   448.63  5098.65
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      9.79          CWSEL=   1531.02

 STA=    4650.    4670.    4761.    4891.    4920.    4950.    4980.    4989.    5050.    5099.
   PER Q=      .2      5.2     17.3      5.9      6.1      5.4      2.6     56.9       .5
    AREA=    10.2    138.7    328.2     95.0     98.2     90.7     36.2    351.2     24.9
     VEL=      .7      1.4      2.0      2.3      2.3      2.2      2.6      6.0       .7

 *SECNO 9.899
     9.90     8.50  1533.50      .00      .00  1533.88      .38     2.50      .01  1530.00
    3720.     439.    2029.    1252.     264.     318.     527.    2998.    1330.   1531.50
     3.65     1.66     6.79     2.37     .090     .050     .090     .000  1525.00  4706.21
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  .005136     455.     570.     620.       3       0       0     .00   460.05  5246.26
0
 FLOW DISTRIBUTION FOR SECNO=      9.90          CWSEL=   1533.50

 STA=    4786.    4905.    4975.    5035.    5055.    5065.    5085.    5120.    5175.    5220.    5246.
   PER Q=      4.1      7.7     54.5      3.4      3.9      7.8      3.4      8.1      6.6       .5
    AREA=    119.1    148.1    318.3     55.0     45.0     90.0     67.5    137.5    112.5     19.7
     VEL=      1.3      2.0      6.4      2.3      3.2      3.2      1.9      2.2      2.2      1.0

 *SECNO 9.980
      9.98     8.12  1535.62      .00      .00  1535.92      .31     2.04      .01  1532.00
     3780.    1553.    1826.     401.     723.     303.     247.    3009.    1334.  1534.00
      3.68     2.15     6.02     1.62     .090     .050     .090     .000  1527.50  4583.84
  .004843     500.     430.     250.        2        0        0      .00   510.41  5194.25
0
 FLOW DISTRIBUTION FOR SECNO=      9.98          CWSEL=   1535.62

 STA=    4684.    4700.    4825.    4900.    4980.    5040.    5100.    5125.    5170.    5194.
   PER Q=       .3     13.3     11.3     16.2     48.3      4.1      2.1      3.9       .5
    AREA=     13.1    264.6    196.2    249.3    303.2     97.0     46.7     84.0     19.6
     VEL=      1.0      1.9      2.2      2.5      6.0      1.6      1.7      1.7      1.0

 *SECNO 10.020
     10.02     8.07  1536.57      .00      .00  1537.29      .72     1.24      .12  1534.00
     3780.    1340.    2323.     117.     475.     276.      61.    3014.    1336.  1534.00
      3.69     2.82     8.40     1.93     .090     .050     .090     .000  1529.50  4791.30
  .008253     180.     210.     230.        2        0        0      .00   287.95  5079.24
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

 FLOW DISTRIBUTION FOR SECNO=     10.02          CWSEL=   1536.57

 STA=    4791.    4795.    4805.    4820.    4840.    4875.    4932.    4950.    4980.    5029.    5065.    5079.
   PER Q=       .0       .8     3.3      4.5      6.7     10.9      3.4      5.7     61.5      3.0       .1
    AREA=      1.1     15.7    42.3     56.4     89.9    146.5     46.3     77.1    276.4     56.5      4.1
     VEL=       .6      2.0     3.0      3.0      2.8      2.8      2.8      2.8      8.4      2.0       .6

 *SECNO 10.077
     10.08     8.93  1538.43      .00      .00  1538.90      .46     1.58      .03  1534.00
     3780.    1121.    2488.     171.     542.     378.      99.    3021.    1339.  1532.00
      3.70     2.07     6.58     1.73     .090     .050     .090     .000  1529.50  4733.06
  .003443     340.     300.     260.        2        0        0      .00   373.89  5106.94
0
 FLOW DISTRIBUTION FOR SECNO=     10.08          CWSEL=   1538.43

 STA=    4733.    4745.    4790.    4845.    4945.    4967.    5018.    5022.    5032.    5045.    5095.    5107.
   PER Q=       .0       .3     2.6     20.0      6.7     65.8      1.6      2.0       .6       .3       .0
    AREA=      2.6     19.5    78.9    343.4     97.6    378.2     21.7     34.3     18.6     21.7      2.6
     VEL=       .3       .6     1.2      2.2      2.6      6.6      2.8      2.2      1.2       .6       .3

 *SECNO 10.137
     10.14     8.39  1539.89      .00      .00  1540.52      .62     1.57      .05  1540.00
     3780.       0.    2212.    1568.       0.     281.     503.    3027.    1341.  1536.00
      3.72      .00     7.86     3.12     .090     .050     .090     .000  1531.50  4975.35
  .007330     220.     320.     400.        2        0        0      .00   209.14  5184.50
0
 FLOW DISTRIBUTION FOR SECNO=     10.14          CWSEL=   1539.89
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STA=    4975.    5025.    5060.    5100.    5122.    5175.    5184.
  PER Q=     58.5     10.1     11.5      7.9     11.7       .3
   AREA=    281.2    119.0    136.0     85.8    153.6      9.0
    VEL=      7.9      3.2      3.2      3.5      2.9      1.3

*SECNO 10.179
    10.18     0.57  1541.07      .00      .00  1541.43      .36      .88      .03  1536.00
    3780.      374.     2568.     838.     175.     454.     451.    3031.    1342.  1536.00
     3.73     2.14     5.66     1.86     .090     .050     .090     .000  1532.50  4905.12
  .003028     270.     220.     140.        2        0        0      .00   298.60  5203.72
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     10.18          CWSEL=   1541.07

STA=    4905.    4911.    4925.    4960.    5030.    5040.    5065.    5080.    5115.    5185.    5204.
  PER Q=       .0      1.1      8.7     67.9      2.5      3.9      3.0      7.0      5.7       .2
   AREA=      3.1     29.0    142.4    453.6     40.7     76.7     53.5    124.9    144.9     10.0
    VEL=       .6      1.5      2.3      5.7      2.3      1.9      2.1      2.1      1.5       .6

*SECNO 10.283
    10.28     8.51  1543.01      .00      .00  1543.40      .39     1.96      .01  1540.00
    3780.    1109.     2135.     536.     537.     333.     224.    3045.    1346.  1540.00
     3.76     2.06     6.42     2.39     .090     .050     .090     .000  1534.50  4739.70
  .004353     500.     550.     580.        3        0        0      .00   360.35  5100.05
0
FLOW DISTRIBUTION FOR SECNO=     10.28          CWSEL=   1543.01

STA=    4740.    4770.    4810.    4830.    4850.    4938.    4970.    5025.    5045.    5065.    5080.    5095.    5100.
  PER Q=       .3      3.7      4.7      4.7     11.8      4.3     56.5      3.6      5.2      3.9      1.4       .0
   AREA=     15.3     80.4     70.2     70.2    220.9     80.3    332.8     60.2     75.2     56.4     30.1      2.5
    VEL=       .7      1.7      2.5      2.5      2.0      2.0      6.4      2.3      2.6      2.6      1.7       .7

*SECNO 10.382
    10.38     8.45  1544.95      .00      .00  1545.36      .40     1.95      .00  1542.00
    3780.     176.     3044.     560.     123.     543.     273.    3057.    1350.  1540.00
     3.79     1.43     5.61     2.05     .090     .050     .090     .000  1536.50  4903.11
  .003278     530.     520.     500.        2        0        0      .00   287.55  5190.66
0
FLOW DISTRIBUTION FOR SECNO=     10.38          CWSEL=   1544.95

STA=    4903.    4915.    4975.    5065.    5072.    5080.    5090.    5155.    5191.
  PER Q=       .1      4.6     80.5      3.3      3.8      2.4      5.0       .3
   AREA=      5.7    117.1    543.1     41.7     47.6     39.5    126.8     17.0
    VEL=       .6      1.5      5.6      3.0      3.0      2.3      1.5       .6

*SECNO 10.444
    10.44     6.00  1546.00      .00      .00  1546.16      .16      .78      .02  1544.00
    3845.      63.     3673.     109.      90.    1135.     155.    3066.    1353.  1546.00
     3.82      .70     3.24      .70     .090     .050     .090     .000  1540.00  4779.94
  .001793     360.     330.     310.        2        0        0      .00   520.10  5300.04
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
```

TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 10.44 CWSEL= 1546.00

TA=	4780.	4870.	5145.	5250.	5300.
PER Q=	1.6	95.5	1.9	.9	
AREA=	90.1	1135.4	105.2	50.1	
VEL=	.7	3.2	.7	.7	

1

PROFILE FOR STREAM TRILBY WASH (CAP TO MCMI

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1300.	1350.	1400.	1450.	1500.	1550.	1600.	1650.	1700.	1750.
SECNO	CUMDIS									
2.74	0. C	IEM	.	.	.	.	.	.	.	.
	100. C	IEM	.	.	.	.	.	.	.	.
	200. C	IEM	.	.	.	.	.	.	.	.
	300. C	I E	.	.	.	.	.	.	.	.
2.81	400. C	I E	.	.	.	.	.	.	.	.
	500. C	IRE	.	.	.	.	.	.	.	.
	600. C	IRE	.	.	.	.	.	.	.	.
	700. C	ILE	.	.	.	.	.	.	.	.
	800. C	ILE	.	.	.	.	.	.	.	.
2.89	900. C	ILE	.	.	.	.	.	.	.	.
	1000. C	ILE	.	.	.	.	.	.	.	.
	1100. C	ILE	.	.	.	.	.	.	.	.
	1200. C	ILE	.	.	.	.	.	.	.	.
	1300. C	ILE	.	.	.	.	.	.	.	.
	1400. C	ILE	.	.	.	.	.	.	.	.
	1500. C	ILE	.	.	.	.	.	.	.	.
3.02	1600. C	IE	.	.	.	.	.	.	.	.
	1700. C	IEM	.	.	.	.	.	.	.	.
	1800. C	IEM	.	.	.	.	.	.	.	.
	1900. C	IEM	.	.	.	.	.	.	.	.
	2000. C	IEM	.	.	.	.	.	.	.	.
	2100. C	IEM	.	.	.	.	.	.	.	.
	2200. C	ILE	.	.	.	.	.	.	.	.
	2300. C	ILE	.	.	.	.	.	.	.	.
	2400. C	ILE	.	.	.	.	.	.	.	.
3.20	2500. C	ILEM	.	.	.	.	.	.	.	.
	2600. C	ILEM	.	.	.	.	.	.	.	.
	2700. C	ILEM	.	.	.	.	.	.	.	.
	2800. C	IEM	.	.	.	.	.	.	.	.
	2900. C	IEM	.	.	.	.	.	.	.	.
	3000. C	IEM	.	.	.	.	.	.	.	.
	3100. C	IEM	.	.	.	.	.	.	.	.
	3200. C	ILE	.	.	.	.	.	.	.	.
3.36	3300. C	ILE	.	.	.	.	.	.	.	.
	3400. C	ILE	.	.	.	.	.	.	.	.
	3500. C	ILE	.	.	.	.	.	.	.	.
	3600. C	.IE	.	.	.	.	.	.	.	.
	3700. C	.IE	.	.	.	.	.	.	.	.
	3800. C	.IE	.	.	.	.	.	.	.	.
	3900. C	.IE	.	.	.	.	.	.	.	.
	4000. C	.IEM	.	.	.	.	.	.	.	.
	4100. C	.ILE	.	.	.	.	.	.	.	.
3.52	4200. C	.ILE	.	.	.	.	.	.	.	.
	4300. C	.IE								

	4400.	C	IE
	4500.	C	IE
	4600.	C	IE
	4700.	C	IE
3.64	4800.	C	IE
	4900.	C	IEM
	5000.	C	ILE
	5100.	C	IE
	5200.	C	IE
	5300.	C	IE
	5400.	C	IE
	5500.	C	IE
3.80	5600.	C	IE
	5700.	C	EM
	5800.	C	IE
	5900.	C	IE
	6000.	C	IE
	6100.	C	IE
	6200.	C	IE
	6300.	C	IE
	6400.	C	IEM
3.96	6500.	C	IEM
	6600.	C	EM
	6700.	C	IE
	6800.	C	IE
	6900.	C	IE
4.05	7000.	C	IE
	7100.	C	IEM
	7200.	C	IEM
	7300.	C	IEM
	7400.	C	IEM
4.16	7500.	C	IEM
	7600.	C	IEM
	7700.	C	ILE
	7800.	C	IEM
	7900.	C	IEM
	8000.	C	IEM
	8100.	C	IEM
4.28	8200.	C	IEM
	8300.	C	IEM
	8400.	C	IEM
	8500.	C	IEM
	8600.	C	IEM
	8700.	C	IEM
	8800.	C	IWE
4.41	8900.	C	ILE
	9000.	C	ILE
	9100.	C	IE
	9200.	C	IE
	9300.	C	IE
	9400.	C	IE
	9500.	C	IE
4.54	9600.	C	IEM.
	9700.	C	IEM.
	9800.	C	IEM.
	9900.	C	ILE.
	10000.	C	ILEM
	10100.	C	ILEM
	10200.	C	ILEM
4.68	10300.	C	ILE.M
	10400.	C	ILE.M
	10500.	C	I E.M
	10600.	C	IEM
	10700.	C	IEM
	10800.	C	IEM
	[illegible]	C	IEM

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4.81 11000.  C     .    IWE    .    .    .    .    .    .    .    .
     11100.  C     .    ILE    .    .    .    .    .    .    .    .
     11200.  C     .    ILE    .    .    .    .    .    .    .    .
     11300.  C     .     IE    .    .    .    .    .    .    .    .
     11400.  C     .     IE    .    .    .    .    .    .    .    .
     11500.  C     .     IE    .    .    .    .    .    .    .    .
     11600.  C     .     IE    .    .    .    .    .    .    .    .
     11700.  C     .     IE    .    .    .    .    .    .    .    .
     11800.  C     .     IE    .    .    .    .    .    .    .    .
4.97 11900.  C     .     IE    .    .    .    .    .    .    .    .
     12000.  C     .    IEM    .    .    .    .    .    .    .    .
     12100.  C     .    ILE    .    .    .    .    .    .    .    .
     12200.  C     .    ILE    .    .    .    .    .    .    .    .
     12300.  C     .    ILE    .    .    .    .    .    .    .    .
     12400.  C     .    ILEM   .    .    .    .    .    .    .    .
5.10 12500.  C     .     IEM   .    .    .    .    .    .    .    .
     12600.  C     .     IEM   .    .    .    .    .    .    .    .
     12700.  C     .     IEM   .    .    .    .    .    .    .    .
     12800.  C     .     IEM   .    .    .    .    .    .    .    .
     12900.  C     .     IEM   .    .    .    .    .    .    .    .
     13000.  C     .     IEM   .    .    .    .    .    .    .    .
5.22 13100.  C     .     IWEM  .    .    .    .    .    .    .    .
     13200.  C     .     ILEM  .    .    .    .    .    .    .    .
     13300.  C     .     ILEM  .    .    .    .    .    .    .    .
     13400.  C     .    .IEM   .    .    .    .    .    .    .    .
     13500.  C     .    .IEM   .    .    .    .    .    .    .    .
     13600.  C     .    .IEM   .    .    .    .    .    .    .    .
     13700.  C     .    .IEM   .    .    .    .    .    .    .    .
5.35 13800.  C     .    .IEM   .    .    .    .    .    .    .    .
     13900.  C     .    .IEM   .    .    .    .    .    .    .    .
     14000.  C     .    .ILE   .    .    .    .    .    .    .    .
     14100.  C     .    .ILE   .    .    .    .    .    .    .    .
     14200.  C     .    .ILE   .    .    .    .    .    .    .    .
     14300.  C     .    .ILE   .    .    .    .    .    .    .    .
     14400.  C     .    .ILE   .    .    .    .    .    .    .    .
     14500.  C     .    .ILEM  .    .    .    .    .    .    .    .
5.49 14600.  C     .    .ILEM  .    .    .    .    .    .    .    .
     14700.  C     .    .IREM  .    .    .    .    .    .    .    .
     14800.  C     .    . IEM  .    .    .    .    .    .    .    .
5.54 14900.  C     .    . I E  .    .    .    .    .    .    .    .
     15000.  C     .    . IRE  .    .    .    .    .    .    .    .
5.58 15100.  C     .    . I E  .    .    .    .    .    .    .    .
     15200.  C     .    . IRE  .    .    .    .    .    .    .    .
     15300.  C     .    . IRE  .    .    .    .    .    .    .    .
5.64 15400.  C     .    . ILE  .    .    .    .    .    .    .    .
     15500.  C     .    . IREM .    .    .    .    .    .    .    .
     15600.  C     .    . I EM .    .    .    .    .    .    .    .
     15700.  C     .    . I EM .    .    .    .    .    .    .    .
5.72 15800.  C     .    .  IEM .    .    .    .    .    .    .    .
     15900.  C     .    .  IWE .    .    .    .    .    .    .    .
     16000.  C     .    .  ILE .    .    .    .    .    .    .    .
5.78 16100.  C     .    .  ILE .    .    .    .    .    .    .    .
     16200.  C     .    .   IE .    .    .    .    .    .    .    .
     16300.  C     .    .   IE .    .    .    .    .    .    .    .
     16400.  C     .    .   IEM .    .    .    .    .    .    .    .
5.84 16500.  C     .    .   IEM .    .    .    .    .    .    .    .
     16600.  C     .    .   IEM .    .    .    .    .    .    .    .
     16700.  C     .    .   IEM .    .    .    .    .    .    .    .
     16800.  C     .    .   IWE .    .    .    .    .    .    .    .
     16900.  C     .    .    IE .    .    .    .    .    .    .    .
     17000.  C     .    .    IE .    .    .    .    .    .    .    .
5.96 17100.  C     .    .    IE .    .    .    .    .    .    .    .
     17200.  C     .    .    IE .    .    .    .    .    .    .    .
     17300.  C     .    .    IE .    .    .    .    .    .    .    .
     17400.  C     .    .    IEM .    .    .    .    .    .    .    .
     17500.  C     .    .    EM
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	17600.	C	.	.	EM . . . . .
	17700.	C	.	.	IE . . . . .
6.08	17800.	C	.	.	IE . . . . .
	17900.	C	.	.	IE . . . . .
	18000.	C	.	.	IEM . . . . .
	18100.	C	.	.	IEM . . . . .
	18200.	C	.	.	EL . . . . .
6.20	18300.	C	.	.	EL . . . . .
	18400.	C	.	.	IE . . . . .
	18500.	C	.	.	IE . . . . .
	18600.	C	.	.	IE . . . . .
	18700.	C	.	.	IE . . . . .
6.29	18800.	C	.	.	IE . . . . .
	18900.	C	.	.	IE . . . . .
	19000.	C	.	.	IE . . . . .
	19100.	C	.	.	EM. . . . .
	19200.	C	.	.	EM. . . . .
6.33	19300.	C	.	.	IE. . . . .
	19400.	C	.	.	IE. . . . .
	19500.	C	.	.	IE. . . . .
	19600.	C	.	.	IE. . . . .
	19700.	C	.	.	IE. . . . .
	19800.	C	.	.	IE. . . . .
	19900.	C	.	.	IEM . . . . .
6.52	20000.	C	.	.	IEM . . . . .
	20100.	C	.	.	IEM . . . . .
	20200.	C	.	.	EM . . . . .
	20300.	C	.	.	EM . . . . .
	20400.	C	.	.	EM . . . . .
	20500.	C	.	.	IE . . . . .
6.64	20600.	C	.	.	IE . . . . .
	20700.	C	.	.	IE . . . . .
	20800.	C	.	.	IE . . . . .
	20900.	C	.	.	IE . . . . .
	21000.	C	.	.	IEM . . . . .
	21100.	C	.	.	IEM . . . . .
	21200.	C	.	.	IEM . . . . .
	21300.	C	.	.	IEM . . . . .
6.79	21400.	C	.	.	IEM . . . . .
	21500.	C	.	.	IEM . . . . .
	21600.	C	.	.	IEM . . . . .
	21700.	C	.	.	IEM . . . . .
	21800.	C	.	.	IE . . . . .
	21900.	C	.	.	IE . . . . .
6.91	22000.	C	.	.	IEM . . . . .
	22100.	C	.	.	IEM . . . . .
	22200.	C	.	.	IEM . . . . .
	22300.	C	.	.	IEM . . . . .
	22400.	C	.	.	IEM . . . . .
	22500.	C	.	.	IEM . . . . .
7.02	22600.	C	.	.	.IE . . . . .
	22700.	C	.	.	.IE . . . . .
	22800.	C	.	.	.IE . . . . .
	22900.	C	.	.	.IE . . . . .
	23000.	C	.	.	.IE . . . . .
	23100.	C	.	.	.IE . . . . .
7.13	23200.	C	.	.	. E . . . . .
	23300.	C	.	.	. E . . . . .
	23400.	C	.	.	. E . . . . .
	23500.	C	.	.	. IE . . . . .
	23600.	C	.	.	. IE . . . . .
	23700.	C	.	.	. IE . . . . .
	23800.	C	.	.	. IE . . . . .
7.26	23900.	C	.	.	. IE . . . . .
	24000.	C	.	.	. IE . . . . .
	24100.	C	.	.	. IE . . . . .

	24200.	C	IE
	24300.	C	IEM
	24400.	C	EM
	24500.	C	IE
	24600.	C	IE
7.41	24700.	C	IE
	24800.	C	IE
	24900.	C	IE
	25000.	C	IE
	25100.	C	IE
7.52	25200.	C	EM
	25300.	C	WE
	25400.	C	IE
	25500.	C	IE
	25600.	C	IE
	25700.	C	IE
	25800.	C	IE
7.64	25900.	C	IE
	26000.	C	IE
	26100.	C	IEM
	26200.	C	IEM
	26300.	C	IWE
	26400.	C	ILE
7.76	26500.	C	IE
	26600.	C	IE
	26700.	C	IE
	26800.	C	IE
	26900.	C	IE
	27000.	C	IE
7.87	27100.	C	IEM
	27200.	C	ILE
	27300.	C	IE
	27400.	C	IE
	27500.	C	IE
7.97	27600.	C	IE
	27700.	C	IE
	27800.	C	IE
	27900.	C	IE
	28000.	C	E
	28100.	C	E
8.07	28200.	C	EM
	28300.	C	WE
	28400.	C	IE
	28500.	C	IE
	28600.	C	IE
8.17	28700.	C	IE
	28800.	C	IE
	28900.	C	IE
	29000.	C	IE
	29100.	C	IEM.
	29200.	C	IEM.
	29300.	C	IWE.
8.30	29400.	C	IWE.
	29500.	C	ILE.
	29600.	C	IE.
	29700.	C	IE.
	29800.	C	IE.
	29900.	C	IE.
8.42	30000.	C	IEM
	30100.	C	IEM
	30200.	C	IEM
	30300.	C	IEM
	30400.	C	IWE
	30500.	C	ILE
8.53	30600.	C	IE
	30700.	C	IE

	30800.	C	.	.	.	IE	.	.	.	.	.	.
	30900.	C	.	.	.	IE	.	.	.	.	.	.
	31000.	C	.	.	.	IE	.	.	.	.	.	.
	31100.	C	.	.	.	IE	.	.	.	.	.	.
8.64	31200.	C	.	.	.	IE	.	.	.	.	.	.
	31300.	C	.	.	.	IE	.	.	.	.	.	.
	31400.	C	.	.	.	IEM	.	.	.	.	.	.
	31500.	C	.	.	.	ILE	.	.	.	.	.	.
	31600.	C	.	.	.	ILE	.	.	.	.	.	.
8.74	31700.	C	.	.	.	ILE	.	.	.	.	.	.
	31800.	C	.	.	.	ILE	.	.	.	.	.	.
	31900.	C	.	.	.	IE	.	.	.	.	.	.
	32000.	C	.	.	.	IE	.	.	.	.	.	.
	32100.	C	.	.	.	IE	.	.	.	.	.	.
	32200.	C	.	.	.	IE	.	.	.	.	.	.
8.85	32300.	C	.	.	.	IE	.	.	.	.	.	.
	32400.	C	.	.	.	IE	.	.	.	.	.	.
	32500.	C	.	.	.	ILE	.	.	.	.	.	.
	32600.	C	.	.	.	ILE	.	.	.	.	.	.
	32700.	C	.	.	.	ILE	.	.	.	.	.	.
8.95	32800.	C	.	.	.	ILE	.	.	.	.	.	.
	32900.	C	.	.	.	.IE	.	.	.	.	.	.
	33000.	C	.	.	.	.IE	.	.	.	.	.	.
	33100.	C	.	.	.	.IE	.	.	.	.	.	.
	33200.	C	.	.	.	.IEM	.	.	.	.	.	.
9.04	33300.	C	.	.	.	.IEM	.	.	.	.	.	.
	33400.	C	.	.	.	.IEM	.	.	.	.	.	.
	33500.	C	.	.	.	.IEM	.	.	.	.	.	.
	33600.	C	.	.	.	.IWE	.	.	.	.	.	.
9.11	33700.	C	.	.	.	.ILE	.	.	.	.	.	.
	33800.	C	.	.	.	.ILE	.	.	.	.	.	.
	33900.	C	.	.	.	.ILE	.	.	.	.	.	.
	34000.	C	.	.	.	.ILE	.	.	.	.	.	.
	34100.	C	.	.	.	.ILE	.	.	.	.	.	.
9.21	34200.	C	.	.	.	.ILE	.	.	.	.	.	.
	34300.	C	.	.	.	. IE	.	.	.	.	.	.
	34400.	C	.	.	.	. IEM	.	.	.	.	.	.
	34500.	C	.	.	.	. IEM	.	.	.	.	.	.
	34600.	C	.	.	.	. IWE	.	.	.	.	.	.
9.32	34700.	C	.	.	.	. ILE	.	.	.	.	.	.
	34800.	C	.	.	.	. ILE	.	.	.	.	.	.
	34900.	C	.	.	.	. ILEM	.	.	.	.	.	.
	35000.	C	.	.	.	. ILEM	.	.	.	.	.	.
	35100.	C	.	.	.	. ILEM	.	.	.	.	.	.
	35200.	C	.	.	.	. I EM	.	.	.	.	.	.
9.40	35300.	C	.	.	.	. IEM	.	.	.	.	.	.
	35400.	C	.	.	.	. IEM	.	.	.	.	.	.
	35500.	C	.	.	.	. IWE	.	.	.	.	.	.
9.47	35600.	C	.	.	.	. ILE	.	.	.	.	.	.
	35700.	C	.	.	.	. ILE	.	.	.	.	.	.
	35800.	C	.	.	.	. ILE	.	.	.	.	.	.
	35900.	C	.	.	.	. ILEM	.	.	.	.	.	.
	36000.	C	.	.	.	. ILEM	.	.	.	.	.	.
9.57	36100.	C	.	.	.	. ILEM	.	.	.	.	.	.
	36200.	C	.	.	.	. ILEM	.	.	.	.	.	.
	36300.	C	.	.	.	. IEM	.	.	.	.	.	.
	36400.	C	.	.	.	. IEM	.	.	.	.	.	.
	36500.	C	.	.	.	. IEM	.	.	.	.	.	.
9.65	36600.	C	.	.	.	. IEM	.	.	.	.	.	.
	36700.	C	.	.	.	. IWE	.	.	.	.	.	.
	36800.	C	.	.	.	. ILE	.	.	.	.	.	.
	36900.	C	.	.	.	. ILE	.	.	.	.	.	.
9.73	37000.	C	.	.	.	. ILE	.	.	.	.	.	.
	37100.	C	.	.	.	. ILE	.	.	.	.	.	.
	37200.	C	.	.	.	. ILEM	.	.	.	.	.	.
9.79	37300.	C	.	.	.	. IEM						

	37400.	C	.	.	.	.	IEM	.	.	.	.	.	.
	37500.	C	.	.	.	.	IEM	.	.	.	.	.	.
	37600.	C	.	.	.	.	IWE	.	.	.	.	.	.
	37700.	C	.	.	.	.	ILE	.	.	.	.	.	.
	37800.	C	.	.	.	.	ILEM	.	.	.	.	.	.
9.90	37900.	C	.	.	.	.	ILEM	.	.	.	.	.	.
	38000.	C	.	.	.	.	ILEM	.	.	.	.	.	.
	38100.	C	.	.	.	.	ILEM	.	.	.	.	.	.
	38200.	C	.	.	.	.	ILEM	.	.	.	.	.	.
9.98	38300.	C	.	.	.	.	IEM	.	.	.	.	.	.
	38400.	C	.	.	.	.	IEM	.	.	.	.	.	.
10.02	38500.	C	.	.	.	.	IEM	.	.	.	.	.	.
	38600.	C	.	.	.	.	IWE	.	.	.	.	.	.
	38700.	C	.	.	.	.	ILE	.	.	.	.	.	.
10.08	38800.	C	.	.	.	.	ILE	.	.	.	.	.	.
	38900.	C	.	.	.	.	ILE	.	.	.	.	.	.
	39000.	C	.	.	.	.	IRE	.	.	.	.	.	.
10.14	39100.	C	.	.	.	.	IRE	.	.	.	.	.	.
	39200.	C	.	.	.	.	IRE	.	.	.	.	.	.
	39300.	C	.	.	.	.	ILEM.	.	.	.	.	.	.
10.19	39400.	C	.	.	.	.	IEM.	.	.	.	.	.	.
	39500.	C	.	.	.	.	IEM.	.	.	.	.	.	.
	39600.	C	.	.	.	.	IEM.	.	.	.	.	.	.
	39700.	C	.	.	.	.	IWE.	.	.	.	.	.	.
	39800.	C	.	.	.	.	IWE.	.	.	.	.	.	.
10.28	39900.	C	.	.	.	.	ILE.	.	.	.	.	.	.
	40000.	C	.	.	.	.	ILE.	.	.	.	.	.	.
	40100.	C	.	.	.	.	ILE.	.	.	.	.	.	.
	40200.	C	.	.	.	.	ILE.	.	.	.	.	.	.
	40300.	C	.	.	.	.	ILE.	.	.	.	.	.	.
10.38	40400.	C	.	.	.	.	ILE.	.	.	.	.	.	.
	40500.	C	.	.	.	.	IE.	.	.	.	.	.	.
	40600.	C	.	.	.	.	IE.	.	.	.	.	.	.
	40700.	C	.	.	.	.	IEM	.	.	.	.	.	.
10.44	40800.	C	.	.	.	.	IEM	.	.	.	.	.	.

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THIS RUN EXECUTED 05/05/88 15:29:09

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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T1 HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS -WITTMANN ADMS
T2 100 YEAR STORM EVENT (ENCROACHED)
T3 TRILBY WASH (CAP TO MCMICKEN DAM)

J1	ICHECK	INQ	NINV	IDIR	STAT	METRIC	HVINS	Q	WSEL	FQ
	0.	3.	0.	0.	.000000	.00	.0	0.	1347.570	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

1

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


PROF 2

 CCHV=    .100 CEHV=    .300
 *SECNO 2.737

 3470 ENCROACHMENT STATIONS=    4500.0    5085.0  TYPE=     1  TARGET=     585.000
      2.74    10.07  1347.57      .00  1346.95  1347.85      .28      .00      .00  1338.00
    11688.    6470.    5218.       0.    2728.     899.       0.       0.       0. 100000.00
       .00     2.37     5.81      .00     .100     .050     .100     .000  1337.50  4500.00
   .002337       0.       0.       0.       0        0        0      .00   585.00  5085.00
0
 *SECNO 2.811
  2800 NAT Q1=   2869.15  WSEL=   1347.70  ENC Q1=   2869.15  WSEL=   1349.70  RATIO=   .0000
  NAT Q1=   3761.  RATIOS LOB,CH,ROB=   .5758   .2491   .1751  WSEL=   1349.70
 3280 CROSS SECTION      2.81 EXTENDED       .05 FEET


 3470 ENCROACHMENT STATIONS=    4499.1    5127.4  TYPE=     4  TARGET=        .237
      2.81     9.55  1348.55      .00  1347.70  1348.73      .18      .87      .01  1340.00
    11688.    6993.    3838.     856.    3153.     748.     425.      40.       6.  1342.30
       .04     2.22     5.13     2.02     .100     .050     .100     .000  1339.00  4499.14
   .001782     450.     390.     400.       2        0        0      .00   628.22  5127.37
0
 *SECNO 2.890
  2800 NAT Q1=   2857.41  WSEL=   1348.37  ENC Q1=   2857.41  WSEL=   1349.37  RATIO=   .0000
  NAT Q1=   3911.  RATIOS LOB,CH,ROB=   .3538   .3230   .3232  WSEL=   1349.37
 280 CROSS SECTION      2.89 EXTENDED       .17 FEET


 3470 ENCROACHMENT STATIONS=    4586.7    5384.7  TYPE=     4  TARGET=        .269
      2.89     7.77  1349.27      .00  1348.37  1349.44      .17      .70      .00  1344.00
    11688.    3489.    5182.    3017.    1896.    1162.    1504.      79.      12.  1344.00
       .07     1.84     4.46     2.01     .100     .050     .100     .000  1341.50  4586.75
   .001766     380.     420.     380.       2        0        0      .00   797.98  5384.72
0
 *SECNO 3.023

 3470 ENCROACHMENT STATIONS=    4455.0    5455.0  TYPE=     1  TARGET=    1000.000
      3.02     8.30  1350.80      .00  1349.92  1351.05      .24     1.59      .02  1344.00
    11688.    2910.    3812.    4966.    1546.     623.    1988.     148.      27.  1350.00
       .13     1.88     6.11     2.50     .100     .050     .100     .000  1342.50  4455.00
   .003123     700.     700.     670.       2        0        0      .00  1000.00  5455.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 3.199

 3470 ENCROACHMENT STATIONS=    4305.0    5450.0  TYPE=     1  TARGET=    1145.000
      3.20     8.33  1354.33      .00  1353.95  1354.71      .38     3.62      .04  1350.00
    11688.    3765.    3539.    4384.    1761.     431.    1635.     230.      48.  1350.00
       .13     2.14     8.22     2.68     .100     .050     .100     .000  1346.00  4305.00
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0
 *SECNO 3.360

 3470 ENCROACHMENT STATIONS=    4369.0    5620.0  TYPE=     1  TARGET=    1251.000
      3.36     8.08  1358.58      .00  1358.30  1358.82      .23     4.09      .02  1354.00
    11688.     4248.     2797.    4643.     1896.     417.    1922.     307.      71.   1354.00
       .26     2.24     6.71     2.42      .100     .050     .100     .000  1350.50  4369.00
   .004482     840.     850.     830.         3        0        0      .00  1251.00  5620.00
0
 *SECNO 3.521

 3470 ENCROACHMENT STATIONS=    4385.0    5650.0  TYPE=     1  TARGET=    1265.000
      3.52     6.41  1363.41      .00  1362.96  1363.68      .27     4.85      .01  1360.00
    11688.     4511.     2112.    5065.     1703.     265.    1842.     384.      95.   1360.00
       .32     2.63     7.96     2.75      .100     .050     .100     .000  1357.00  4385.00
   .007846     830.     850.     830.         4        0        0      .00  1265.00  5650.00
0
 *SECNO 3.636
 3280 CROSS SECTION      3.64 EXTENDED       .37 FEET


 3470 ENCROACHMENT STATIONS=    4480.0    5740.0  TYPE=     1  TARGET=    1260.000
      3.64     6.57  1367.57      .00  1366.76  1367.80      .23     4.12      .00  1364.00
    11688.     4113.     2401.    5174.     1640.     344.    2150.     441.     113.   1364.00
       .37     2.51     6.97     2.41      .100     .050     .100     .000  1361.00  4480.00
   .005648     680.     610.     580.         3        0        0      .00  1260.00  5740.00
0
 *SECNO 3.797
 3280 CROSS SECTION      3.00 EXTENDED       .36 FEET


 3470 ENCROACHMENT STATIONS=    4495.0    5825.0  TYPE=     1  TARGET=    1330.000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


      3.80     5.26  1372.26      .00  1371.47  1372.38      .12     4.57      .01100000.00
    11688.       0.    11688.       0.       0.    4128.       0.     521.     139. 100000.00
       .45      .00     2.83      .00     .080     .080     .080     .000  1367.00  4495.00
   .005169     790.     850.     890.         4        0        0      .00  1330.00  5825.00
0
 *SECNO 3.958

 3470 ENCROACHMENT STATIONS=    4555.0    5735.0  TYPE=     1  TARGET=    1180.000
      3.96     5.02  1377.02      .00  1376.51  1377.18      .16     4.79      .01  1372.50
    11688.       0.    10531.    1157.       0.    3290.     411.     597.     163.   1374.50
       .53      .00     3.20     2.82     .080     .080     .080     .000  1372.00  4555.00
   .006326     400.     850.     630.         4        0        0      .00  1180.00  5735.00
0
 *SECNO 4.053

 3470 ENCROACHMENT STATIONS=    4480.0    5645.0  TYPE=     1  TARGET=    1165.000
      4.05     4.94  1379.94      .00  1379.31  1380.08      .14     2.90      .00  1375.50
    11688.       0.     9970.    1718.       0.    3252.     669.     642.     177.   1377.50
       .58      .00     3.07     2.57     .080     .080     .080     .000  1375.00  4480.00
   .005092     450.     500.     600.         2        0        0      .00  1165.00  5645.00
0
 *SECNO 4.157
 2000 NAT Q1=   1767.16  WSEL=   1381.89  ENC Q1=   1767.16  WSEL=   1382.89  RATIO=   .0000
 NAT Q1=   7000.  RATIOS FOR CULVERT=   1370.   5000.   7614.  WSEL=   1382.00
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3470 ENCROACHMENT STATIONS=    4410.0    5373.7  TYPE=     4  TARGET=        .427
     4.16      7.22  1382.72      .00  1381.89  1382.88      .16      2.80      .01  1380.00
   11625.        0.    10182.    1443.       0.    3078.     551.      690.     190.   1380.00
      .62       .00     3.31     2.62     .000     .000     .000      .000  1375.50  4410.00
  .005032      470.     550.     570.        3        0        0       .00   963.66  5373.66

*SECNO 4.275
 2800 NAT Q1=   1824.16  WSEL=   1384.50  ENC Q1=   1824.16  WSEL=   1385.50  RATIO=   .0000
 NAT Q1=   3052.  RATIOS LOB,CH,ROB=   .2705   .2345   .4950  WSEL=   1385.50

3470 ENCROACHMENT STATIONS=    4713.0    5699.0  TYPE=     4  TARGET=        .402
     4.28      5.52  1385.52      .00  1384.50  1385.74      .22      2.84      .02  1382.00
   11625.      1362.    4555.    5708.     559.     875.    2317.      744.     204.   1382.00
      .67      2.44     5.20     2.46     .090     .050     .090      .000  1380.00  4713.77
  .004004      530.     620.     680.        3        0        0       .00   984.22  5697.99
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4.405

3470 ENCROACHMENT STATIONS=    4880.0    5790.0  TYPE=     1  TARGET=     910.000
     4.41      6.50  1388.50      .00  1387.71  1388.91      .41      3.11      .06  1384.00
   11625.        0.    6768.    4857.       0.    1035.    2047.      799.     220.   1386.00
      .71       .00     6.42     2.37     .090     .050     .090      .000  1382.00  4880.00
  .005070      670.     690.     700.        1        0        0       .00   910.00  5790.00
0
*SECNO 4.539

3470 ENCROACHMENT STATIONS=    4892.0    5810.0  TYPE=     1  TARGET=     918.000
     4.54      6.38  1391.88      .00  1391.38  1392.21      .33      3.29      .01  1390.00
   11625.        0.    5874.    5751.       0.     930.    2348.      849.     234.   1386.00
      .76       .00     5.99     2.45     .090     .050     .090      .000  1385.50  4892.00
  .004569      730.     705.     660.        2        0        0       .00   918.00  5810.00
0
*SECNO 4.679

3470 ENCROACHMENT STATIONS=    4546.0    5660.0  TYPE=     1  TARGET=    1114.000
     4.68      9.63  1394.90      .00  1394.35  1395.20      .30      2.99      .00  1392.00
   11625.      3675.    6008.    1943.     1379.    1060.    1181.      906.     250.   1392.00
      .81      2.66     5.67     1.64     .090     .050     .090      .000  1385.28  4546.00
  .003689      765.     740.     700.        2        0        0       .00  1114.00  5660.00
0
*SECNO 4.810

3470 ENCROACHMENT STATIONS=    4381.0    5550.0  TYPE=     1  TARGET=    1169.000
     4.81      6.46  1397.96      .00  1397.33  1398.38      .42      3.14      .04  1394.00
   11625.      3297.    7020.    1308.     1353.    1032.     719.      958.     268.   1396.60
      .85      2.44     6.43     1.82     .090     .050     .090      .000  1391.50  4381.00
  .005878      700.     690.     620.        2        0        0       .00  1169.00  5550.00
0
*SECNO 4.974

3470 ENCROACHMENT STATIONS=    4400.0    5600.0  TYPE=     1  TARGET=    1200.000
     4.97      7.22  1402.22      .00  1401.75  1402.52      .29      4.13      .01  1400.00
   11625.      2440.    5519.    3666.     1230.     948.    1470.     1022.     289.   1398.00
      .91      1.98     5.82     2.49     .090     .050     .090      .000  1395.00  4400.00
  .004262      705.     670.     705.        3        0        0       .00  1200.00  5600.00
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0
1
 05/05/88    15:24:47                                                                                                PAGE   47

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1490 NH CARD USED
 *SECNO 5.099

 3470 ENCROACHMENT STATIONS=    4260.0    5540.0  TYPE=     1  TARGET=    1280.000
      5.10     7.24  1405.24     .00  1404.80  1405.38     .13     2.85     .02100000.00
    11625.       0.   11477.     148.       0.    3987.    125.    1090.     308.   1404.00
      .97      .00     2.95    1.19     .090     .073    .100     .000  1398.00  4260.00
   .004362     780.     660.     590.        2        0       0      .00  1280.00  5540.00
0
 1490 NH CARD USED
 *SECNO 5.217

 3470 ENCROACHMENT STATIONS=    4340.0    5500.0  TYPE=     1  TARGET=    1160.000
      5.22     7.29  1408.29     .00  1407.46  1408.48     .19     3.00     .02100000.00
    11625.       0.   11625.      0.       0.    3368.      0.    1133.     326. 100000.00
      1.02      .00     3.45     .00     .090     .066    .100     .000  1401.00  4340.00
   .005727     660.     620.     560.        2        0       0      .00  1160.00  5500.00
0
 *SECNO 5.346

 3470 ENCROACHMENT STATIONS=    4640.0    5500.0  TYPE=     1  TARGET=     860.000
      5.35     6.09  1412.09     .00  1411.56  1412.40     .32     3.09     .04  1410.00
    11625.    1304.    6337.    3985.     504.    1164.   1240.    1181.     341.   1408.00
      1.06     2.59     5.45    3.21     .090     .050    .090     .000  1406.00  4640.00
   .005765     710.     680.     650.        3        0       0      .00   860.00  5500.00
0
 CCHV=    .300 CEHV=    .500
 1490 NH CARD USED
 *SECNO 5.490

 3470 ENCROACHMENT STATIONS=    4680.0    5490.0  TYPE=     1  TARGET=     810.000
      5.49     9.34  1416.34     .00  1416.04  1417.08     .74     4.46     .21  1410.00
    11625.    1978.    6152.    3495.     745.     671.   1278.    1230.     356.   1412.00
      1.10     2.66     9.17    2.73     .090     .050    .093     .000  1407.00  4680.00
   .006093     900.     760.     720.        2        0       0      .00   810.00  5490.00
0
 1490 NH CARD USED
 *SECNO 5.544
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=    4745.0    5595.0  TYPE=     1  TARGET=     850.000
      5.54    10.11  1418.11     .00  1417.54  1418.36     .25     1.13     .15  1417.50
    11625.      70.    6110.    5445.      78.    1214.   2196.    1250.     361.   1412.00
      1.12      .90     5.03    2.48     .100     .043    .086     .000  1400.00  4745.00
   .002687     260.     290.     300.        2        0       0      .00   850.00  5595.00
```

```
1490 NH CARD USED
*SECNO 5.573

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    4675.0    5550.0  TYPE=     1  TARGET=     875.000
     5.58     9.44  1418.44      .00  1418.00  1419.59     1.15      .78      .45  1420.00
   11560.      40.   11515.       4.      33.    1335.      11.    1263.     364.   1418.00
     1.12     1.21     8.62      .41     .100     .050     .100     .000  1409.00  4675.00
  .005700     130.     190.     260.        2        0        0      .00   250.67  5127.55
0
CCHV=    .100 CEHV=    .300
1490 NH CARD USED
*SECNO 5.645

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    4515.0    5415.0  TYPE=     1  TARGET=     900.000
     5.64     9.56  1420.56      .00  1420.12  1420.73      .17     1.05      .10  1417.00
   11560.    3847.    4477.    3236.    1929.     959.    1545.    1282.     368.   1416.00
     1.15     1.99     4.67     2.09     .100     .050     .100     .000  1411.00  4515.00
  .002095     325.     350.     190.        3        0        0      .00   900.00  5415.00
0
1490 NH CARD USED
*SECNO 5.717

3470 ENCROACHMENT STATIONS=    4442.0    5455.0  TYPE=     1  TARGET=    1013.000
     5.72     8.96  1421.96      .00  1421.61  1422.17      .21     1.43      .01  1419.50
   11560.       0.   11560.       0.       0.    3129.       0.    1319.     377. 100000.00
     1.18      .00     3.69      .00     .100     .071     .100     .000  1413.00  4442.00
  .006971     410.     410.     400.        2        0        0      .00  1013.00  5455.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 5.777

3470 ENCROACHMENT STATIONS=    4350.0    5430.0  TYPE=     1  TARGET=    1080.000
     5.78     6.92  1423.92      .00  1423.78  1424.21      .29     2.02      .02  1421.00
   11560.    4343.    6063.    1154.    1723.    1095.     560.    1341.     385.   1422.50
     1.21     2.52     5.54     2.06     .100     .050     .098     .000  1417.00  4350.00
  .005799     300.     320.     350.        1        0        0      .00  1080.00  5430.00
0
1490 NH CARD USED
*SECNO 5.840

3470 ENCROACHMENT STATIONS=    4390.0    5525.0  TYPE=     1  TARGET=    1135.000
     5.84     6.64  1426.14      .00  1425.88  1426.29      .15     2.06      .01  1424.00
   11560.       0.   11560.       0.       0.    3694.       0.    1369.     393. 100000.00
     1.24      .00     3.13      .00     .100     .083     .098     .000  1419.50  4390.00
  .006352     300.     350.     340.        1        0        0      .00  1135.00  5525.00
0
1490 NH CARD USED
```

```
 *SECNO 5.961

 3470 ENCROACHMENT STATIONS=    4500.0    5665.0  TYPE=     1  TARGET=    1165.000
      5.96     4.31  1429.61      .00  1429.26  1429.78      .18     3.49      .01100000.00
    11560.       0.   11560.       0.       0.    3443.       0.    1421.     410. 100000.00
      1.29      .00     3.36      .00     .100     .062     .098     .000  1425.30  4500.00
   .004733     620.     640.     710.        3        0        0      .00  1165.00  5665.00
0
 1490 NH CARD USED
 *SECNO 6.082

 3470 ENCROACHMENT STATIONS=    4505.0    5695.0  TYPE=     1  TARGET=    1190.000
      6.08     4.62  1433.62      .00  1432.94  1433.78      .16     4.00      .00  1430.00
    11560.       0.   11560.       0.       0.    3554.       0.    1473.     427. 100000.00
      1.34      .00     3.35      .00     .100     .088     .098     .000  1429.00  4505.00
   .008619     550.     640.     750.        3        0        0      .00  1190.00  5695.00
0
 *SECNO 6.200

 3470 ENCROACHMENT STATIONS=    4430.0    5890.0  TYPE=     1  TARGET=    1460.000
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


      6.20     3.92  1437.42      .00  1437.05  1437.53      .10     3.74      .01100000.00
    11560.       0.   11560.       0.       0.    4479.       0.    1518.     442. 100000.00
      1.40      .00     2.58      .00     .100     .100     .100     .000  1433.50  4430.00
   .006793     400.     490.     600.        3        0        0      .00  1460.00  5890.00
0
 *SECNO 6.293

 3470 ENCROACHMENT STATIONS=    4265.0    5820.0  TYPE=     1  TARGET=    1555.000
      6.29     3.84  1440.34      .00  1440.16  1440.42      .08     2.89      .00100000.00
    11560.       0.   11560.       0.       0.    4982.       0.    1571.     459. 100000.00
      1.46      .00     2.32      .00     .100     .100     .100     .000  1436.50  4265.00
   .005185     400.     490.     340.        2        0        0      .00  1555.00  5820.00
0
 *SECNO 6.395

 3470 ENCROACHMENT STATIONS=    4150.0    5870.0  TYPE=     1  TARGET=    1720.000

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=   100000.00 ELREA=   100000.00

      6.39     4.13  1443.13      .00  1442.70  1443.20      .08     2.78      .00100000.00
    11560.       0.   11560.       0.       0.    5208.       0.    1634.     479. 100000.00
      1.52      .00     2.22      .00     .100     .100     .100     .000  1439.00  4150.00
   .005111     460.     540.     450.        2        0        0      .00  1720.00  5870.00
0
 *SECNO 6.520

 3470 ENCROACHMENT STATIONS=    4215.0    6005.0  TYPE=     1  TARGET=    1790.000
      6.52     3.93  1445.93      .00  1445.48  1445.99      .06     2.78      .00  1444.00
    11560.       0.   11560.       0.       0.    5910.       0.    1718.     506. 100000.00
      1.62      .00     1.96      .00     .100     .100     .100     .000  1442.00  4215.00
   .003538     530.     660.     530.        2        0        0      .00  1790.00  6005.00
0
 *SECNO 6.645

 3470 ENCROACHMENT STATIONS=    4380.0    6370.0  TYPE=     1  TARGET=    1990.000
      6.64     4.50  1449.50      .00  1449.26  1449.56      .06     2.57      .00100000.00
```

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   11560.      0.   10430.    1130.      0.    5215.     611.    1808.     535.   1446.00
     1.71     .00     2.00     1.85    .100     .100     .100     .000  1444.00  4380.00
  .004263    550.     660.     740.       2        0        0      .00  1990.00  6370.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 6.787

 3470 ENCROACHMENT STATIONS=    4420.0    6620.0  TYPE=     1  TARGET=    2200.000
     6.79     5.31  1451.31      .00  1450.99  1451.35      .05     2.79      .00  1451.00
   11560.      0.     9368.    2192.      0.    5289.    1225.    1913.     571.   1447.00
     1.83     .00     1.77     1.79    .100     .100     .100     .000  1446.00  4420.00
  .003351    630.     750.     690.       2        0        0      .00  2200.00  6620.00
0
 *SECNO 6.906

 3470 ENCROACHMENT STATIONS=    4620.0    6840.0  TYPE=     1  TARGET=    2220.000
     6.91     5.15  1454.15      .00  1453.78  1454.24      .09     2.87      .01  1453.50
   11560.      0.     4827.    6733.      0.    2821.    2452.    2001.     603.   1452.00
     1.90     .00     1.71     2.75    .100     .100     .100     .000  1449.00  4620.00
  .005943    560.     630.     700.       3        0        0      .00  2220.00  6840.00
0
 *SECNO 7.020

 3470 ENCROACHMENT STATIONS=    4670.0    6590.0  TYPE=     1  TARGET=    1920.000
     7.02     3.78  1458.78      .00  1457.84  1458.88      .09     4.64      .00  1457.50
   11499.     57.     6636.    4806.     43.    2594.    2118.    2090.     635.   1455.50
     1.98     1.34     2.56     2.27    .100     .100     .100     .000  1455.00  4670.00
  .007548    570.     600.     790.       4        0        0      .00  1920.00  6590.00
0
 *SECNO 7.134
 3280 CROSS SECTION      7.13 EXTENDED       .74 FEET

 3470 ENCROACHMENT STATIONS=    4650.0    5858.0  TYPE=     1  TARGET=    1208.000
     7.13     4.44  1461.94      .00  1460.98  1461.99      .05     3.11      .00100000.00
    7430.      0.     4466.    2964.      0.    2451.    1575.    2142.     657.   1459.00
     2.08     .00     1.82     1.88    .100     .100     .100     .000  1457.50  4650.00
  .003114    570.     600.     630.       3        0        0      .00  1208.00  5858.00
0
 *SECNO 7.262

 3470 ENCROACHMENT STATIONS=    4910.0    5150.0  TYPE=     1  TARGET=     240.000
     7.26     4.93  1464.93      .00  1464.60  1465.24      .31     3.17      .08  1463.50
    3362.      0.     3362.      0.       0.     754.      0.    2178.     668. 100000.00
     2.12     .00     4.46      .00    .100     .100     .100     .000  1460.00  4910.00
  .020030    630.     680.     630.       2        0        0      .00   240.00  5150.00
0
1
 05/05/88    15:24:47                                                                    PAGE   52

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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*SECNO 7.410

3470 ENCROACHMENT STATIONS=    4670.0    5310.0  TYPE=     1  TARGET=     640.000
     7.41     5.60  1469.60     .00  1468.71  1469.64     .04     4.38     .03  1466.00
    3362.       0.    3362.      0.       0.    2035.      0.    2203.     676. 100000.00
     2.25      .00     1.64     .00     .100     .100    .100     .000  1464.00  4670.00
  .002595     800.     780.    460.        4        0       0      .00   640.00  5310.00
0

*SECNO 7.520

3470 ENCROACHMENT STATIONS=    4600.0    5210.0  TYPE=     1  TARGET=     610.000
     7.52     4.12  1472.12     .00  1471.97  1472.21     .10     2.55     .02100000.00
    3420.       0.    3374.     46.       0.    1353.     38.    2226.     685.   1471.00
     2.32      .00     2.49    1.23     .100     .100    .100     .000  1468.00  4600.00
  .008940     570.     580.    830.        5        0       0      .00   610.00  5210.00
0

*SECNO 7.643

3470 ENCROACHMENT STATIONS=    4615.0    5250.0  TYPE=     1  TARGET=     635.000
     7.64     5.64  1475.64     .00  1475.15  1475.80     .16     3.57     .02  1472.00
    3420.     1220.    1776.    425.     736.     434.    270.    2247.     694.   1474.00
     2.38     1.66     4.10    1.57     .090     .050    .090     .000  1470.00  4615.00
  .003821     580.     650.    700.        3        0       0      .00   635.00  5250.00
0

*SECNO 7.764

3470 ENCROACHMENT STATIONS=    4775.0    5290.0  TYPE=     1  TARGET=     515.000
     7.76     6.00  1478.50     .00  1478.29  1478.89     .39     3.02     .07  1476.00
    3420.      805.    1739.    876.     365.     257.    455.    2264.     702.   1476.00
     2.41     2.21     6.76    1.92     .090     .050    .090     .000  1472.50  4775.00
  .007061     580.     600.    610.        3        0       0      .00   515.00  5290.00

*SECNO 7.868

3470 ENCROACHMENT STATIONS=    4746.0    5150.0  TYPE=     1  TARGET=     404.000
     7.87     6.43  1482.43     .00  1482.09  1482.68     .24     3.77     .01  1480.00
    3420.     1038.    1440.    942.     479.     264.    369.    2279.     708.   1480.00
     2.46     2.17     5.45    2.55     .090     .050    .090     .000  1476.00  4746.00
  .005785     605.     590.    580.        4        0       0      .00   404.00  5150.00
0
1
 05/05/98    15:24:47                                                                PAGE   53

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 7.969

3470 ENCROACHMENT STATIONS=    4795.0    5190.0  TYPE=     1  TARGET=     395.000
     7.97     4.42  1484.92     .00  1484.40  1485.11     .19     2.43     .01  1482.00
    3480.      624.    2322.    534.     332.     570.    269.    2293.     713.   1482.50
     2.50     1.88     4.08    1.99     .090     .050    .090     .000  1480.50  4795.00
  .003760     460.     530.    600.        1        0       0      .00   395.00  5190.00

*SECNO 8.073

3470 ENCROACHMENT STATIONS=    4845.0    5265.0  TYPE=     1  TARGET=     420.000
     8.07     4.04  1487.44     .00  1486.91  1487.73     .28     2.59     .03  1485.80
    3480.      264.    2393.    823.     150.     484.    369.    2306.     718.   1485.00
     2.54     1.76     4.94    2.23     .090     .050    .090     .000  1483.40  4845.00
  .006313     530.     550.    510.        1        0       0      .00   420.00  5265.00
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*SECNO 8.173

3470 ENCROACHMENT STATIONS=    4800.0    5290.0  TYPE=     1  TARGET=     490.000
     8.17      5.20  1490.20      .00  1489.60  1490.37      .18      2.64      .01  1487.50
    3480.       579.     1862.    1039.      328.      434.     581.    2321.      724.   1487.50
     2.59      1.76      4.29     1.79      .090      .050     .090      .000  1485.00  4800.00
  .003540      650.      580.     510.         2         0        0      .00   490.00  5290.00
0
*SECNO 8.298

3470 ENCROACHMENT STATIONS=    4840.0    5235.0  TYPE=     1  TARGET=     395.000
     8.30      5.74  1492.74      .00  1492.33  1493.04      .31      2.63      .04  1489.50
    3480.       315.     2643.     522.      159.      529.     279.    2337.      730.   1491.00
     2.63      1.98      4.99     1.87      .090      .050     .090      .000  1487.00  4840.00
  .005425      730.      630.     470.         2         0        0      .00   395.00  5235.00
0
*SECNO 8.421

3470 ENCROACHMENT STATIONS=    4760.0    5140.0  TYPE=     1  TARGET=     380.000
     8.42      6.53  1496.03      .00  1495.78  1496.36      .34      3.31      .01  1494.00
    3480.      1102.     1955.     422.      515.      329.     215.    2351.      735.   1494.00
     2.67      2.14      5.94     1.97      .090      .050     .090      .000  1489.50  4760.00
  .005157      660.      650.     460.         3         0        0      .00   380.00  5140.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 8.535

3470 ENCROACHMENT STATIONS=    4860.0    5200.0  TYPE=     1  TARGET=     340.000
     8.53      5.80  1498.80      .00  1498.26  1499.07      .27      2.70      .01  1496.00
    3540.        0.     3099.     441.        0.      696.     280.    2365.      740.   1496.00
     2.71       .00      4.45     1.58      .090      .050     .090      .000  1493.00  4860.00
  .003926      720.      600.     480.         2         0        0      .00   340.00  5200.00
0
*SECNO 8.639

3470 ENCROACHMENT STATIONS=    4760.0    5045.0  TYPE=     1  TARGET=     285.000
     8.64      6.53  1501.53      .00  1500.94  1502.16      .62      2.98      .10  1498.00
    3540.      1267.     2273.       0.      478.      297.       0.    2375.      743. 100000.00
     2.74      2.63      7.66      .00      .090      .050     .090      .000  1495.00  4760.00
  .009164      420.      540.     550.         2         0        0      .00   285.00  5045.00
0
*SECNO 8.736

3470 ENCROACHMENT STATIONS=    4850.0    5120.0  TYPE=     1  TARGET=     270.000
     8.74      7.58  1504.58      .00  1503.60  1504.90      .32      2.71      .03  1500.00
    3540.       697.     2614.     229.      358.      507.     115.    2385.      746.   1501.00
     2.77      1.95      5.16     1.98      .090      .050     .090      .000  1497.00  4850.00
  .003593      470.      510.     520.         2         0        0      .00   270.00  5120.00

*SECNO 8.851

3470 ENCROACHMENT STATIONS=    4870.0    5175.0  TYPE=     1  TARGET=     305.000
     8.85      7.00  1507.00      .00  1506.57  1507.30      .30      2.40      .02  1504.50
    3540.       539.     1924.    1077.      214.      347.     470.    2398.      750.   1504.00
     2.81      2.52      5.54     2.29      .090      .050     .090      .000  1500.00  4870.00
  .004776      450.      610.     610.         3         0        0      .00   305.00  5175.00
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*SECNO 8.950

3470 ENCROACHMENT STATIONS=    4900.0    5160.0  TYPE=     1  TARGET=     260.000
     8.95     7.30  1509.50     .00  1509.17  1509.88     .38     2.55     .02  1506.00
    3540.     144.    2442.    955.     70.     423.    399.    2410.    753.  1506.00
     2.84     2.05     5.71    2.39    .090     .050    .090     .000  1502.20  4900.00
  .005007     510.     520.    530.       1        0       0      .00   260.00  5160.00
0
1
```



```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 9.043

3470 ENCROACHMENT STATIONS=    4925.0    5160.0  TYPE=     1  TARGET=     235.000
     9.04     7.99  1511.69     .00  1511.18  1512.05     .35     2.17     .00  1508.00
    3540.     311.    2651.    578.     144.     493.    272.    2420.    756.  1508.00
     2.87     2.16     5.37    2.12    .090     .050    .090     .000  1503.70  4925.00
  .003946     480.     490.    490.       2        0       0      .00   235.00  5160.00
0
*SECNO 9.113

3470 ENCROACHMENT STATIONS=    4915.0    5140.0  TYPE=     1  TARGET=     225.000
     9.11     8.20  1513.20     .00  1512.71  1513.59     .39     1.53     .01  1510.00
    3540.     507.    2489.    545.     138.     432.    249.    2428.    758.  1511.00
     2.89     2.55     5.76    2.18    .090     .050    .090     .000  1505.00  4915.00
  .004349     380.     370.    360.       2        0       0      .00   225.00  5140.00
0
*SECNO 9.211

3470 ENCROACHMENT STATIONS=    4845.0    5085.0  TYPE=     1  TARGET=     240.000
     9.21     8.58  1515.58     .00  1515.07  1516.10     .53     2.48     .04  1510.00
    3660.    1366.    1974.    320.     501.     261.    144.    2428.    761.  1512.00
     2.92     2.73     7.56    2.22    .090     .050    .090     .000  1507.00  4845.00
  .005307     510.     520.    505.       2        0       0      .00   240.00  5085.00
0
*SECNO 9.317

3470 ENCROACHMENT STATIONS=    4850.0    5060.0  TYPE=     1  TARGET=     210.000
     9.32     8.46  1518.46     .00  1518.04  1518.98     .51     2.37     .00  1514.00
    3660.     750.    2910.      0.     306.     460.      0.    2449.    764. 100000.00
     2.95     2.45     6.32     .00    .090     .050    .090     .000  1510.00  4851.85
  .004957     560.     560.    560.       2        0       0      .00   208.15  5060.00
0
*SECNO 9.402

3470 ENCROACHMENT STATIONS=    4895.0    5100.0  TYPE=     1  TARGET=     205.000
     9.40     8.74  1521.24     .00  1520.78  1521.87     .63     2.86     .03  1518.00
    3660.     675.    2564.    421.     260.     346.    159.    2458.    766.  1518.00
     2.97     2.60     7.41    2.65    .090     .050    .090     .000  1512.50  4895.00
  .006185     500.     520.    545.       2        0       0      .00   205.00  5100.00
```



```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
```

```
 *SECNO 9.473

 3470 ENCROACHMENT STATIONS=    4925.0    5140.0  TYPE=     1  TARGET=     215.000
      9.47      7.15  1523.65      .00  1523.29  1524.15      .50      2.27      .01  1520.00
     3660.       531.     1975.    1155.      190.      273.     391.     2465.     768.   1520.00
      2.99      2.80     7.22     2.95      .090      .050     .090      .000  1516.50  4925.00
   .006066      370.      370.     370.         2         0        0       .00   215.00  5140.00
0
 *SECNO 9.567

 3470 ENCROACHMENT STATIONS=    4905.0    5135.0  TYPE=     1  TARGET=     230.000
      9.57      9.80  1525.80      .00  1525.21  1526.19      .38      2.03      .01  1522.00
     3720.       500.     2416.     804.      254.      404.     377.     2476.     771.   1522.00
      3.02      1.97     5.98     2.13      .090      .050     .090      .000  1516.00  4905.00
   .002940      500.      500.     490.         3         0        0       .00   230.00  5135.00
0
 *SECNO 9.649

 3470 ENCROACHMENT STATIONS=    4900.0    5090.0  TYPE=     1  TARGET=     190.000
      9.65      7.66  1527.16      .00  1526.73  1527.52      .35      1.33      .00  1521.50
     3720.      1171.     2263.     286.      382.      398.     156.     2485.     773.   1524.00
      3.05      3.07     5.68     1.84      .090      .050     .090      .000  1519.50  4900.00
   .003283      440.      430.     400.         2         0        0       .00   190.00  5090.00
0
 *SECNO 9.726

 3301 HV CHANGED MORE THAN HVING


 3470 ENCROACHMENT STATIONS=    4880.0    5060.0  TYPE=     1  TARGET=     180.000
      9.73      7.36  1528.96      .00  1528.78  1530.05     1.09      2.32      .22  1526.00
     3720.       858.     2842.      20.      256.      302.      16.     2493.     774.   1528.00
      3.06      3.35     9.42     1.22      .090      .050     .090      .000  1521.00  4880.00
   .011270      450.      410.     340.         3         0        0       .00   180.00  5060.00
0
 *SECNO 9.791

 3301 HV CHANGED MORE THAN HVING

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        DLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST


 3470 ENCROACHMENT STATIONS=    4860.0    5080.0  TYPE=     1  TARGET=     220.000
      9.79      9.20  1531.70      .00  1531.02  1532.13      .43      2.01      .07  1526.00
     3720.      1223.     2446.      51.      497.      392.      42.     2498.     776.   1530.00
      3.09      2.46     6.23     1.23      .090      .050     .090      .000  1522.50  4860.00
   .003770      310.      340.     360.         2         0        0       .00   220.00  5080.00

 *SECNO 9.899

 3470 ENCROACHMENT STATIONS=    4940.0    5145.0  TYPE=     1  TARGET=     205.000
      9.90      9.07  1534.07      .00  1533.50  1534.58      .51      2.43      .03  1530.00
     3720.       276.     2414.    1029.      112.      353.     370.     2509.     778.   1531.50
      3.11      2.47     6.85     2.79      .090      .050     .090      .000  1525.00  4940.00
   .005163      455.      570.     620.         3         0        0       .00   205.00  5145.00
```

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 *SECNO 9.980

 3470 ENCROACHMENT STATIONS=    4835.0    5065.0  TYPE=     1  TARGET=     230.000
      9.98      8.77  1536.27      .00  1535.62  1536.73      .46      2.14      .00  1532.00
     3780.     1387.    2285.     108.     513.     342.      56.     2517.     780.   1534.00
      3.13      2.71     6.68     1.91     .090     .050     .090      .000  1527.50  4835.00
   .005086      500.     430.     250.        2        0        0       .00   230.00  5065.00
0
 *SECNO 10.020

 3470 ENCROACHMENT STATIONS=    4895.0    5060.0  TYPE=     1  TARGET=     165.000
     10.02      8.71  1537.21      .00  1536.57  1538.14      .93      1.27      .14  1534.00
     3780.      858.    2738.     184.     273.     308.      73.     2521.     781.   1534.00
      3.14      3.14     8.89     2.53     .090     .050     .090      .000  1528.50  4895.00
   .007996      180.     210.     230.        2        0        0       .00   165.00  5060.00
0
 *SECNO 10.077

 3470 ENCROACHMENT STATIONS=    4890.0    5035.0  TYPE=     1  TARGET=     145.000
     10.08      9.61  1539.11      .00  1538.43  1539.61      .50      1.43      .04  1534.00
     3780.      903.    2703.     174.     363.     413.      74.     2526.     782.   1532.00
      3.15      2.48     6.55     2.35     .090     .050     .090      .000  1529.50  4890.00
   .003039      340.     300.     260.        2        0        0       .00   145.00  5035.00
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 10.137

 3470 ENCROACHMENT STATIONS=    4980.0    5115.0  TYPE=     1  TARGET=     135.000
     10.14      8.84  1540.34      .00  1539.89  1541.18      .84      1.46      .10100000.00
     3780.        0.    2562.    1218.       0.     233.     353.     2532.     783.   1536.00
      3.17       .00     8.59     3.45     .090     .050     .090      .000  1531.50  4980.00
   .007464      220.     320.     400.        2        0        0       .00   135.00  5115.00
0
 *SECNO 10.179

 3470 ENCROACHMENT STATIONS=    4940.0    5100.0  TYPE=     1  TARGET=     160.000
     10.18      9.17  1541.67      .00  1541.07  1542.10      .43       .89      .04  1536.00
     3780.      234.    2909.     637.     102.     496.     289.     2535.     784.   1536.00
      3.18      2.29     5.87     2.20     .090     .050     .090      .000  1532.50  4940.00
   .002987      270.     220.     140.        2        0        0       .00   160.00  5100.00
0
 *SECNO 10.283

 3470 ENCROACHMENT STATIONS=    4900.0    5055.0  TYPE=     1  TARGET=     155.000
     10.28      9.12  1543.62      .00  1543.01  1544.41      .79      2.20      .11  1540.00
     3780.      533.    2930.     318.     208.     356.     112.     2545.     786.   1540.00
      3.20      2.57     8.00     2.83     .090     .050     .090      .000  1534.50  4900.00
   .005951      500.     550.     580.        2        0        0       .00   155.00  5055.00

 *SECNO 10.382

 3470 ENCROACHMENT STATIONS=    4945.0    5095.0  TYPE=     1  TARGET=     150.000
     10.38      9.39  1545.89      .00  1544.95  1546.24      .35      1.78      .04  1542.00
     3780.      168.    3193.     418.     102.     628.     171.     2555.     788.   1540.00
      3.23      1.65     5.09     2.44     .090     .050     .090      .000  1536.50  4945.00
   .002225      530.     520.     500.        1        0        0       .00   150.00  5095.00
```

```
*SECNO 10.444

3470 ENCROACHMENT STATIONS=    4935.0    5070.0  TYPE=     1  TARGET=     135.000
    10.44     6.65  1546.65      .00  1546.00  1546.96      .31      .71      .00100000.00
    3945.       0.    3845.       0.       0.     862.       0.    2561.     789. 100000.00
     3.25      .00     4.46      .00     .090     .050     .090     .000  1540.00  4935.00
  .002115     360.     330.     310.        2        0        0      .00   135.00  5070.00
0
1
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                                                                          THIS RUN EXECUTED 05/05/88   15:31:00
 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ***************************************************


 T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
 T2      50 YEAR FLOOD EVENT
 T3      TRILBY WASH (CAP TO MCMICKEN DAM)

 J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

       0.       4.       0.       0.  .001700      .00       .0       0.  1344.000     .000

 J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      3.000     .000   -1.000     .000     .000     .000     .000     .000     .000   15.000

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *PROF 3

 CCHV=    .100 CEHV=    .300
 *SECNO 2.737
     2.74     8.70  1346.20      .00  1344.00  1346.35      .15      .00      .00  1338.00
    8999.    4259.    3444.    1296.    3003.     755.     615.       0.       0.   1340.00
      .00     1.42     4.56     2.11     .100     .050     .100     .000  1337.50  3750.50
  .001703       0.       0.       0.        0        0        4      .00  1437.76  5188.26
0
 FLOW DISTRIBUTION FOR SECNO=      2.74          CWSEL=   1346.20

 STA=    3750.    4280.    4555.    4624.    4718.    4774.    4895.    4942.    4580.    5085.    5140.    5162.    5188.
   PER Q=     3.7      5.9      3.3      8.4      5.0      9.0      5.0      6.9     38.3      9.9      3.3      1.2
   AREA=    501.1    549.8    220.8    441.7    263.2    508.1    244.4    273.6    754.7    392.2    141.9     81.4
    VEL=       .7      1.0      1.3      1.7      1.7      1.6      1.8      2.3      4.6      2.3      2.1      1.3

 *SECNO 2.811
     2.81     7.94  1346.94      .00      .00  1347.04      .11      .69      .00  1340.00
    8999.    4955.    2522.    1522.    3030.     603.     924.      44.      12.   1342.30
      .05     1.64     4.19     1.65     .100     .050     .100     .000  1339.00  4257.52
  .001570      453      290      400        2        0        0      .00  1002.00  5267.50
```

0
FLOW DISTRIBUTION FOR SECNO= 2.81 CWSEL= 1346.94

STA=	4258.	4580.	4625.	4705.	4750.	4810.	4952.	4970.	5060.	5240.	5268.
PER Q=	15.0	5.3	7.3	4.1	7.1	13.8	2.3	20.0	16.1	.8	
AREA=	1002.3	256.0	389.6	217.7	341.3	716.2	106.9	602.7	861.9	62.3	
VEL=	1.3	1.9	1.7	1.7	1.9	1.7	1.9	4.2	1.7	1.2	

*SECNO 2.890

2.89	6.10	1347.60	.00	.00	1347.70	.10	.65	.00	1344.00
8999.	2777.	3209.	3013.	2019.	874.	1779.	85.	22.	1344.00
.10	1.38	3.67	1.69	.100	.050	.100	.000	1341.50	4307.24
.001753	380.	420.	380.	1	0	0	.00	1238.65	5545.89

0
FLOW DISTRIBUTION FOR SECNO= 2.89 CWSEL= 1347.60

1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORRR	TOPWID	ENDST

STA=	4307.	4491.	4550.	4612.	4695.	4745.	4860.	4957.	5129.	5200.	5281.	5332.	5425.
PER Q=	4.8	3.4	4.0	5.2	3.3	5.5	4.6	35.7	4.1	4.7	4.5	11.3	
AREA=	390.5	211.9	238.2	309.9	192.1	367.1	309.6	873.6	255.0	291.0	234.2	520.1	
VEL=	1.1	1.5	1.5	1.5	1.5	1.3	1.3	3.7	1.5	1.5	1.7	2.0	

STA=	5425.	5521.	5546.
PER Q=	8.4	.4	
AREA=	440.8	37.8	
VEL=	1.7	1.0	

*SECNO 3.023

3265 DIVIDED FLOW

3.02	6.73	1349.23	.00	.00	1349.44	.22	1.71	.04	1344.00
8999.	1518.	2847.	4635.	1066.	487.	1961.	150.	43.	1350.00
.16	1.42	5.84	2.36	.100	.050	.100	.000	1342.50	4196.28
.003801	700.	700.	670.	2	0	0	.00	1387.07	5610.69

0
FLOW DISTRIBUTION FOR SECNO= 3.02 CWSEL= 1349.23

STA=	4196.	4440.	4790.	4810.	4880.	4958.	5045.	5321.	5450.	5535.	5565.	5611.
PER Q=	3.4	3.1	3.3	3.2	3.7	31.6	16.0	17.5	13.6	3.4	1.0	
AREA=	290.7	316.2	107.0	158.8	193.7	487.2	715.0	609.7	444.2	126.8	65.1	
VEL=	1.1	.9	2.8	1.8	1.7	5.8	2.0	2.6	2.8	2.4	1.4	

*SECNO 3.199

3.20	7.46	1353.46	.00	.00	1353.86	.41	4.36	.06	1350.00
8999.	2599.	3116.	3284.	1535.	381.	1376.	220.	73.	1350.00
.22	1.69	8.19	2.39	.100	.050	.100	.000	1346.00	3951.45
.006233	825.	930.	940.	2	0	0	.00	1580.30	5531.75

0
FLOW DISTRIBUTION FOR SECNO= 3.20 CWSEL= 1353.46

STA=	3951.	4230.	4430.	4590.	4658.	4798.	4968.	5025.	5072.	5115.	5290.	5380.	5510.
PER Q=	3.3	3.5	3.5	3.9	4.7	9.9	34.6	4.5	5.1	15.9	6.0	4.9	
AREA=	258.0	240.0	216.0	166.6	237.5	416.5	380.6	153.6	161.3	560.0	238.5	247.0	
VEL=	1.2	1.3	1.5	2.1	1.8	2.1	8.2	2.6	2.8	2.5	2.2	1.8	

STA=	5510.	5532.
PER Q=	.2	
AREA=	15.0	

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    VEL=       .9

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *SECNO 3.360
      3.36     7.34  1357.84      .00      .00  1358.00      .16     4.12      .02  1354.00
     8999.    3802.    2130.    3067.    2340.     367.    1585.     292.     109.  1354.00
       .30     1.62     5.80     1.93     .100     .050     .100     .000  1350.50  3808.79
   .003959     840.     850.     830.        3        0        0      .00  2168.83  5977.60
0
 FLOW DISTRIBUTION FOR SECNO=      3.36          CWSEL=   1357.84

 STA=    3809.    4060.    4225.    4355.    4579.    4688.    4812.    4850.    4965.    5032.    5072.    5115.    5172.
   PER Q=      5.2      3.7      3.6      6.2      3.6      4.4      4.1     11.3     23.7      3.1      3.3      4.8
    AREA=    367.9    262.9    232.1    404.6    218.9    255.6    155.5    442.0    367.5    133.7    143.8    198.8
     VEL=      1.3      1.3      1.4      1.4      1.5      1.5      2.4      2.3      5.8      2.1      2.1      2.2
 STA=    5172.    5218.    5241.    5300.    5420.    5600.    5978.
   PER Q=      6.1      5.5      3.6      3.5      3.7       .5
    AREA=    205.3    151.6    164.8    221.2    261.8    104.3
     VEL=      2.7      3.3      2.0      1.4      1.3       .4

 *SECNO 3.521
      3.52     5.56  1362.56      .00      .00  1362.79      .23     4.77      .02  1360.00
     8999.    3922.    1687.    3390.    1732.     223.    1561.     367.     148.  1360.00
       .37     2.26     7.57     2.17     .100     .050     .100     .000  1357.00  4115.82
   .008969     830.     850.     830.        3        0        0      .00  1993.75  6109.57
0
 FLOW DISTRIBUTION FOR SECNO=      3.52          CWSEL=   1362.56

 STA=    4116.    4250.    4450.    4595.    4815.    4980.    5030.    5080.    5252.    5410.    5522.    5625.    5970.
   PER Q=      6.0     11.7      7.3     10.0      8.6     18.8      4.9      9.0      8.2      8.0      4.2      3.1
    AREA=    243.6    441.4    292.3    415.1    339.4    222.9    150.4    353.8    325.0    277.1    181.9    231.0
     VEL=      2.2      2.4      2.2      2.2      2.3      7.6      2.9      2.3      2.3      2.6      2.1      1.2
 STA=    5970.    6110.
   PER Q=       .3
    AREA=     41.6
     VEL=       .6

 *SECNO 3.636
      3.64     5.42  1366.42      .00      .00  1366.51      .09     3.71      .01  1364.00
     8999.    4550.    1397.    3052.    2832.     273.    2292.     432.     185.  1364.00
       .46     1.61     5.11     1.33     .100     .050     .100     .000  1361.00  3608.31
   .004129     680.     610.     580.        3        0        0      .00  3111.57  6719.89
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.64          CWSEL=   1366.42

 STA=    3608.    3932.    4085.    4215.    4300.    4368.    4555.    4650.    4735.    4845.    4970.    5032.    5085.
   PER Q=      7.2      7.4      5.0      3.0      3.7      6.8      3.6      4.1      5.0      4.0     15.5      3.2
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    AREA=   485.1   371.0   282.7   176.4   180.2   393.0   201.4   211.1   289.2   241.9   273.3   148.5
     VEL=     1.3     1.7     1.6     1.6     1.8     1.6     1.6     1.8     1.8     1.5     5.1     1.9
  STA=    5085.   5135.   5240.   5390.   5522.   5595.   6060.   6205.   6265.   6720.
   PER Q=     3.1     3.3     4.7     4.2     3.4     4.1     4.3     3.5      .0
    AREA=   144.2   202.1   208.7   254.1   177.0   393.1   320.6   351.5    11.7
     VEL=     2.0     1.5     1.5     1.5     1.7      .9     1.2      .9      .3

  *SECNO 3.797
      3.80    4.16 1371.16     .00     .00 1371.26     .10    4.74     .00 1369.00
     8999.    1157.    7479.    363.    524.    2767.    337.    518.    239.  1370.00
       .55    2.21    2.70    1.08    .080    .080    .080    .000 1367.00 4077.83
   .008298    780.    850.    890.       4       0       0     .00 2467.39 6545.23
0
 FLOW DISTRIBUTION FOR SECNO=      3.80          CWSEL=   1371.16

  STA=    4078.   4150.   4255.   4375.   4455.   5825.   6055.   6322.   6510.   6545.
   PER Q=      .5     4.1     4.7     3.5    83.1     2.1     1.1      .8      .0
    AREA=    41.7   163.2   186.6   132.4  2766.9   150.6   108.0    76.1     2.7
     VEL=     1.2     2.3     2.3     2.4     2.7     1.3      .9      .9      .3

  *SECNO 3.958
      3.96    4.19 1376.19     .00     .00 1376.27     .08    5.01     .00 1372.50
     8999.     397.    5830.   2772.    166.    2443.   1443.    585.    277.  1374.50
       .64    2.39    2.39    1.92    .080    .080    .090    .000 1372.00 4471.03
   .005199    400.    850.    630.       4       0       0     .00 2092.53 6563.56
0
 FLOW DISTRIBUTION FOR SECNO=      3.96          CWSEL=   1376.19

  STA=    4471.   4515.   4555.   5582.   5820.   5945.   6250.   6510.   6564.
   PER Q=      .8     3.6    64.8    10.8     6.9    11.0     2.1      .0
    AREA=    48.3   117.9  2443.0   463.7   274.8   518.0   181.6     5.3
     VEL=     1.5     2.8     2.4     2.1     2.3     1.9     1.1      .3

  *SECNO 4.053
      4.05    3.93 1378.93     .00     .00 1379.01     .08    2.74     .00 1375.50
     8999.     601.    5780.   2618.    237.    2327.   1429.    634.    303.  1377.50
       .71    2.54    2.48    1.83    .080    .080    .080    .000 1375.00 4375.99
   .005188    450.    500.    600.       3       0       0     .00 2034.06 6410.05
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      GSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


  FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1378.93

  STA=    4376.   4390.   4435.   4490.   5400.   5605.   5900.   6185.   6410.
   PER Q=      .1     2.0     4.6    64.2     7.3    13.2     7.7      .9
    AREA=     6.5    87.0   143.3  2327.1   345.2   570.5   408.6   105.1
     VEL=      .8     2.1     2.9     2.5     1.9     2.1     1.7      .8

  *SECNO 4.157
      4.16    6.02 1381.52     .00     .00 1381.59     .07    2.58     .00 1380.00
     8920.    1141.    5205.   2573.    537.    2157.   1509.    686.    329.  1380.00
       .78    1.91    2.41    1.71    .080    .080    .090    .000 1375.50 4038.34
   .004277    470.    550.    570.       2       0       0     .00 2062.60 6160.93
0
 FLOW DISTRIBUTION FOR SECNO=      4.16          CWSEL=   1381.52

  STA=    4098.   4125.   4265.   4410.   5180.   5565.   5930.   6085.   6161.
```

```
    AREA=     20.3    283.3    293.4   2157.5    682.9    647.4    158.7     19.9
     VEL=      1.0      1.9      1.9      2.4      1.8      1.8      1.2       .5

 *SECNO 4.275

 3265 DIVIDED FLOW

     4.28     4.10  1384.10      .00      .00  1384.21      .11     2.61      .01  1382.00
    8920.    2447.    2477.    3996.    1262.     606.    2312.     748.     258.   1382.00
      .85     1.94     4.09     1.73     .090     .050     .090     .000  1380.00  4204.26
  .004034     550.     620.     680.        3        0        0      .00  1929.35  6254.65
0
 FLOW DISTRIBUTION FOR SECNO=      4.28          CWSEL=   1384.10

 STA=    4204.    4295.    4520.    4600.    4650.    4715.    4790.    4870.    5060.    5160.    5255.    5595.    5975.
   PER Q=     3.5      3.3      6.3      4.6      3.1      3.1      3.5     27.8      3.3      3.1     16.3     18.5
    AREA=   180.2    178.8    246.7    169.9    151.4    159.9    175.4    605.8    184.9    175.7    791.2    892.6
     VEL=     1.7      1.6      2.3      2.4      1.9      1.7      1.8      4.1      1.6      1.6      1.8      1.9
 STA=    5975.    6245.    6255.
   PER Q=     3.5       .0
    AREA=   266.7       .5
     VEL=     1.2       .1

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4.405
     4.41     5.29  1387.29      .00      .00  1387.61      .32     3.34      .06  1384.00
    8920.     674.    4851.    3394.     257.     819.    1935.     805.     386.   1386.00
      .90     2.63     5.93     1.75     .090     .050     .090     .000  1382.00  4785.36
  .005888     670.     690.     700.        3        0        0      .00  1538.49  6323.85
0
 FLOW DISTRIBUTION FOR SECNO=      4.41          CWSEL=   1387.29

 STA=    4785.    4860.    4880.    5075.    5238.    5375.    5770.    6100.    6324.
   PER Q=     5.2      2.3     54.4      4.5      3.5     14.7     12.3      3.1
    AREA=   186.0     70.7    818.6    237.4    192.0    705.0    589.0    211.3
     VEL=     2.5      2.9      5.9      1.7      1.6      1.9      1.9      1.3

 *SECNO 4.539
     4.54     5.45  1390.95      .00      .00  1391.18      .24     3.57      .01  1390.00
    8920.       5.    4283.    4633.       7.     804.    2600.     854.     410.   1386.00
      .95      .69     5.32     1.78     .090     .050     .090     .000  1383.50  4876.86
  .004628     730.     705.     660.        3        0        0      .00  1666.13  6542.99
0
 FLOW DISTRIBUTION FOR SECNO=      4.54          CWSEL=   1390.95

 STA=    4877.    4892.    5080.    5091.    5218.    5281.    5475.    5885.    6375.    6543.
   PER Q=      .1     48.0      1.4      9.7      4.1      9.1     15.7     11.4      .6
    AREA=      7.2    804.4     43.4    374.2    169.9    426.1    798.0    708.7     79.5
     VEL=      .7      5.3      2.8      2.3      2.2      1.9      1.8      1.4      .7

 *SECNO 4.679
     4.68     8.85  1393.85      .00      .00  1394.06      .20     2.87      .00  1392.00
    8920.    4116.    4051.     753.    1601.     861.     792.     910.     437.   1392.00
     1.01     2.57     4.71      .95     .090     .050     .090     .000  1385.00  4316.09
  .003354     765.     740.     700.        3        0        0      .00  1655.52  5971.60
0
 FLOW DISTRIBUTION FOR SECNO=      4.68          CWSEL=   1393.85
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STA=    4316.    4500.    4515.    4535.    4575.    4590.    4710.    4900.    5090.    5255.    5835.    5972.
  PER Q=     4.0      3.3      7.4     14.7      4.0      8.2      4.5     43.4      3.3      4.8       .4
   AREA=   236.9     92.8    167.1    334.2    102.8    362.5    304.7    860.7    238.4    495.2     58.3
    VEL=     1.5      3.2      3.9      3.9      3.4      2.0      1.3      4.7      1.2       .9       .5
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 4.810
     4.81     5.36  1396.86      .00      .00  1397.15      .29     3.07      .02  1394.00
    8920.    3839.     4644.     437.    1658.     840.     444.     958.     463.  1396.60
     1.06     2.32     5.53      .99     .090     .050     .090     .000  1391.50  4090.69
  .006165     700.     690.     620.        2        0        0      .00  1753.69  5844.37
0
 FLOW DISTRIBUTION FOR SECNO=      4.81          CWSEL=   1396.86

STA=    4091.    4158.    4203.    4282.    4350.    4550.    4900.    5130.    5620.    5844.
  PER Q=     3.8      5.6      9.8      5.7      8.2     10.0     52.1      3.6      1.3
   AREA=   147.2    162.6    285.4    194.6    372.5    495.6    839.9    316.6    126.9
    VEL=     2.3      3.1      3.1      2.6      2.0      1.8      5.5      1.0       .9

*SECNO 4.974
     4.97     6.33  1401.33      .00      .00  1401.57      .25     4.42      .00  1400.00
    8920.    2295.     4232.    2393.    1299.     786.    1078.    1015.     494.  1398.00
     1.12     1.77     5.39     2.22     .090     .050     .090     .000  1395.00  4182.03
  .004682     785.     870.     785.        4        0        0      .00  1633.49  5815.52
0
 FLOW DISTRIBUTION FOR SECNO=      4.97          CWSEL=   1401.33

STA=    4182.    4280.    4482.    4625.    4810.    4898.    5080.    5188.    5219.    5250.    5370.    5720.    5816.
  PER Q=     3.9     12.4      3.9      3.8      1.8     47.4      4.1      7.4      7.4      3.9      4.0       .1
   AREA=   192.3    520.8    223.4    245.7    116.9    785.7    197.5    180.7    180.7    196.4    306.9     15.7
    VEL=     1.8      2.1      1.5      1.4      1.4      5.4      1.9      3.7      3.7      1.8      1.2       .3

1490 NH CARD USED
*SECNO 5.099
     5.10     6.33  1404.33      .00      .00  1404.41      .08     2.82      .02  1402.00
    8920.     431.     8417.     72.     234.     3756.     132.    1071.     522.  1404.00
     1.21     1.85     2.24     .55     .080     .072     .100     .000  1398.00  3714.99
  .003810     780.     660.     590.        3        0        0      .00  2024.04  5739.03
0
 FLOW DISTRIBUTION FOR SECNO=      5.10          CWSEL=   1404.33

STA=    3715.    3838.    5448.    5739.
  PER Q=     4.8     94.4      .8
   AREA=   233.7   3755.5    131.6
    VEL=     1.8      2.2      .5
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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1490 NH CARD USED
*SECNO 5.217
     5.22     6.06  1407.06      .00      .00  1407.21      .15     2.78      .02  1404.00
    8920.      543.    8377.       0.     172.    2664.       0.    1121.     548.   1407.00
     1.26     3.16     3.14      .10     .050     .051     .100     .000  1401.00  3887.21
  .005313     660.     620.     560.        2        0        0      .00  1624.78  5511.99

 FLOW DISTRIBUTION FOR SECNO=      5.22          CWSEL=   1407.06

 STA=    3887.    4010.    5500.    5512.
   PER Q=      6.1     93.9       .0
    AREA=    171.8   2664.4       .3
     VEL=      3.2      3.1       .1

 *SECNO 5.346
     5.35     5.14  1411.14      .00      .00  1411.39      .25     4.15      .03  1410.00
    8920.     1720.    4330.    2870.     770.     870.     918.    1163.     571.   1408.80
     1.31     2.23     4.98     3.13     .090     .050     .090     .000  1406.00  4367.48
  .007100     710.     680.     650.        4        0        0      .00  1302.78  5670.27
0
 FLOW DISTRIBUTION FOR SECNO=      5.35          CWSEL=   1411.14

 STA=    4367.    4555.    4610.    4715.    4815.    5125.    5165.    5215.    5290.    5315.    5670.
   PER Q=      4.3      3.7      8.8      2.5     48.5      3.3      7.5     16.5      3.0      1.8
    AREA=    220.0    131.4    287.5    130.8    869.8    109.5    194.4    366.6     83.5    163.7
     VEL=      1.7      2.5      2.7      1.7      5.0      2.7      3.4      4.0      3.2      1.0

 CCHV=    .300 CEHV=    .500
 1490 NH CARD USED
 *SECNO 5.490
     5.49     8.52  1415.52      .00      .00  1416.05      .52     4.52      .14  1410.00
    8920.     1718.    4696.    2506.     919.     682.    1280.    1210.     595.   1412.00
     1.35     1.87     7.90     1.96     .090     .050     .091     .000  1407.00  4360.26
  .005110     800.     760.     720.        3        0        0      .00  1453.82  5014.09
0
 FLOW DISTRIBUTION FOR SECNO=      5.49          CWSEL=   1415.52

 STA=    4360.    4580.    4729.    4949.    4960.    5045.    5090.    5116.    5175.    5353.    5528.    5655.    5814.
   PER Q=      3.8      3.6      8.6      3.2     52.6      4.4      3.8      5.8      4.8      3.9      3.8      1.6
    AREA=    224.9    213.7    430.3     49.7    601.8    158.5    117.6    206.8    266.1    222.6    193.3    115.3
     VEL=      1.5      1.5      1.8      5.7      7.8      2.5      2.9      2.5      1.6      1.6      1.8      1.2

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1490 NH CARD USED
 *SECNO 5.544

 3265 DIVIDED FLOW

     5.54     9.00  1417.00      .00      .00  1417.24      .24     1.11      .09  1417.50
    8920.      197.    4723.    4000.     186.     936.    1962.    1229.     604.   1412.00
     1.38     1.06     5.05     2.04     .099     .041     .085     .000  1400.00  4429.52
  .002973     260.     290.     300.        2        0        0      .00  1245.16  5925.36
0
 FLOW DISTRIBUTION FOR SECNO=      5.54          CWSEL=   1417.00

 STA=    4430.    4784.    5065.    5100.    5230.    5275.    5370.    5495.    5850.    5925.
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   AREA=    186.2    936.1    175.2    650.6    180.2    238.0    219.3    460.4     37.9
    VEL=      1.1      5.0      4.7      2.4      2.0      1.5      1.5      1.2       .5

1490 NH CARD USED
*SECNO 5.579

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

     5.58     8.48  1417.48      .00      .00  1419.26      .78      .74      .27  1420.00
    8845.     396.    8449.       0.     208.    1170.       0.    1240.     608.  1418.00
     1.39     1.91     7.22      .00     .086     .250     .085     .000  1409.00  4582.53
  .004613     130.     190.     260.        2        0        0      .00   279.73  5077.58
0
 FLOW DISTRIBUTION FOR SECNO=      5.58          CWSEL=   1417.48

 STA=    4583.    4645.    4692.    5079.
   PER Q=      3.1      1.4     95.5
    AREA=    128.2     79.3   1170.3
     VEL=      2.1      1.6      7.2

 CCHV=    .100 CEHV=    .300
 1490 NH CARD USED
 *SECNO 5.645
1
  05/05/88    15:24:47                                                                    PAGE   69


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3301 HV CHANGED MORE THAN HVINS

     5.64     8.24  1419.24      .00      .00  1419.39      .14     1.07      .06  1417.00
    8845.    3087.    3327.    2511.    1646.     760.    1440.    1258.     613.  1416.00
     1.42     1.83     4.38     1.74     .096     .050     .100     .000  1411.00  4402.94
  .002506     325.     350.     180.        2        0        0      .00  1350.88  5753.82
0
 FLOW DISTRIBUTION FOR SECNO=      5.64          CWSEL=   1419.24

 STA=    4403.    4500.    4655.    4760.    4805.    4820.    4855.    4915.    5065.    5095.    5120.    5143.    5200.
   PER Q=      3.7      9.1      5.5      4.2      3.0      5.8      2.7     37.6      4.0      6.4      6.4      4.7
    AREA=    187.0    481.5    313.4    190.6    101.0    208.2    164.1    760.3    157.1    193.4    193.4    217.9
     VEL=      1.7      1.7      1.5      1.9      2.6      2.5      1.5      4.4      2.2      2.9      2.9      1.9
 STA=    5200.    5395.    5655.    5754.
   PER Q=      3.4      3.1       .5
    AREA=    295.9    321.2     61.0
     VEL=      1.0       .9       .7

 1490 NH CARD USED
 *SECNO 5.717

3265 DIVIDED FLOW

     5.72     8.02  1421.02      .00      .00  1421.26      .24     1.83      .03  1419.50
    8845.     131.    8637.     76.      76.    2183.     89.    1287.     625.  1420.20
     1.45     1.72     3.96     .86     .098     .064     .100     .000  1413.00  4371.60
  .010446     410.     410.     400.        2        0        0      .00  1296.36  5885.21
0
 FLOW DISTRIBUTION FOR SECNO=      5.72          CWSEL=   1421.02
```

```
 STA=    4372.    4442.    5455.    5005.
   PER Q=      1.5     97.7       .9
    AREA=     76.4   2183.1     89.0
     VEL=      1.7      4.0       .9

1490 NH CARD USED
 *SECNO 5.777
      5.78     6.36  1423.36      .00      .00  1423.56      .21     2.30      .00  1421.00
     8845.     3346.     4457.    1042.    1630.     935.     674.    1307.     635.  1422.50
      1.47     2.05     4.77     1.55     .100     .050     .093     .000  1417.00  4209.31
   .005302     300.     320.     350.        3        0        0      .00  1531.03  5740.35
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IOC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.78          CWSEL=   1423.36

 STA=    4209.    4445.    4540.    4680.    4795.    4825.    4875.    5160.    5365.    5395.    5555.    5740.
   PER Q=      8.5      6.7      7.1      6.9      3.9      4.7     50.4      3.1      3.8      3.4      1.5
    AREA=    438.3    271.3    329.9    299.7    123.2    167.8    935.3    230.5    120.7    197.0    125.7
     VEL=      1.7      2.2      1.9      2.0      2.8      2.5      4.8      1.2      2.8      1.5      1.0

 1490 NH CARD USED
 *SECNO 5.840

 3265 DIVIDED FLOW

      5.84     5.94  1425.44      .00      .00  1425.55      .10     1.97      .01  1424.00
     8845.      237.     8223.     384.     185.    3100.     237.    1333.     648.  1424.00
      1.51     1.28     2.65     1.62     .086     .094     .080     .000  1419.50  4165.61
   .006418     300.     350.     340.        2        0        0      .00  1705.51  6007.72
0
 FLOW DISTRIBUTION FOR SECNO=      5.84          CWSEL=   1425.44

 STA=    4166.    4390.    5612.    5718.    6008.
   PER Q=      2.7     93.0      3.3      1.0
    AREA=    185.4   3107.7    153.3     83.7
     VEL=      1.3      2.6      1.9      1.1

 1490 NH CARD USED
 *SECNO 5.961
      5.96     3.58  1428.88      .00      .00  1429.00      .11     3.45      .00  1427.50
     8845.      193.     8359.     293.     170.    3028.     220.    1385.     673.  1426.50
      1.59     1.13     2.76     1.33     .098     .061     .100     .000  1425.30  4109.62
   .004557     620.     640.     710.        4        0        0      .00  1715.74  5825.36
0
 FLOW DISTRIBUTION FOR SECNO=      5.96          CWSEL=   1428.88

 STA=    4110.    4275.    5665.    5750.    5825.
   PER Q=      2.2     94.5      3.2       .1
    AREA=    170.2   3027.9    204.2     15.6
     VEL=      1.1      2.8      1.4       .6

 1490 NH CARD USED
 *SECNO 6.082
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 3265 DIVIDED FLOW

      6.08      3.60  1432.60       .00       .00  1432.68       .08      3.68       .00  1430.00
     8845.     2917.     5645.      283.     1316.     2342.      187.     1437.      702.  1431.00
      1.65      2.22      2.41      1.52      .091      .086      .080      .000  1429.00  3599.88
   .007836      550.      640.      750.         3         0         0       .00  2306.27  5954.85
0
 FLOW DISTRIBUTION FOR SECNO=      6.08          CWSEL=   1432.60

 STA=    3600.    3935.    4070.    4140.    4225.    4515.    5695.    5955.
   PER Q=      7.8      8.6      4.3      4.0      8.3     63.8      3.2
    AREA=    350.2    323.4    164.4    165.9    312.2   2341.7    186.8
     VEL=      2.0      2.4      2.3      2.1      2.3      2.4      1.5

 *SECNO 6.200
      6.20      3.19  1436.69       .00       .00  1436.79       .10      4.10       .00  1441.50
     8845.        0.     8719.      126.        0.     3463.      106.     1478.      724.  1435.50
      1.70       .00      2.52      1.19      .100      .100      .100      .000  1433.50  4385.76
   .003440      400.      490.      600.         3         0         0       .00  1673.77  6059.53
0
 FLOW DISTRIBUTION FOR SECNO=      6.20          CWSEL=   1436.69

 STA=    4386.    5830.    5970.    6000.
   PER Q=     98.6      1.2       .2
    AREA=   3463.5     75.1     30.8
     VEL=      2.5      1.4       .7

 *SECNO 6.293
      6.29      3.23  1439.73       .00       .00  1439.78       .05      2.99       .00  1440.00
     8845.        0.     7649.     1196.        0.     4136.      764.     1524.      744.  1438.00
      1.78       .00      1.85      1.57      .100      .100      .100      .000  1436.50  4199.52
   .004441      400.      490.      340.         3         0         0       .00  2049.15  6248.67
0
 FLOW DISTRIBUTION FOR SECNO=      6.29          CWSEL=   1439.73

 STA=    4200.    5820.    5925.    6105.    6249.
   PER Q=     86.5      4.5      7.7      1.3
    AREA=   4135.7    235.4    403.5    125.1
     VEL=      1.8      1.7      1.7       .9

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 6.395

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1442.50 ELREA=     1444.00

      6.39      3.32  1442.32       .00       .00  1442.37       .05      2.59       .00  1442.50
     8845.        0.     8845.        0.        0.     4996.        0.     1584.      771.  1444.00
      1.86       .00      1.77       .00      .100      .100      .100      .000  1439.00  4898.35
   [illegible]      [illegible]      [illegible]      [illegible]         [illegible]         [illegible]         [illegible]         [illegible]         [illegible]
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0
 FLOW DISTRIBUTION FOR SECNO=      6.39          CWSEL=   1442.32

 STA=    4088.    6610.
   PER Q=    100.0
   AREA=   4996.3
    VEL=      1.8

 *SECNO 6.520
      6.52     3.12  1445.12      .00      .00  1445.16      .04     2.79      .00  1444.00
    8845.      148.    7196.    1501.      166.    4437.    1122.    1664.      808.   1442.50
      1.98      .89     1.62     1.34     .100     .100     .100     .000  1442.00  4040.17
  .003550     530.     660.     530.        1        0        0      .00  2685.95  6726.11
0
 FLOW DISTRIBUTION FOR SECNO=      6.52          CWSEL=   1445.12

 STA=    4040.    4090.    4215.    6005.    6270.    6455.    6490.    6505.    6525.    6710.    6726.
   PER Q=      .2      1.5     81.4     11.1      4.1       .4       .2       .3       .8       .0
   AREA=    27.6    138.4   4437.3    624.7    297.4     38.8     20.4     27.1    112.4       .9
    VEL=      .6       .9      1.6      1.6      1.2       .9      1.1      1.1       .6       .1

 *SECNO 6.645
      6.64     3.85  1447.85      .00      .00  1447.89      .04     2.73      .00  1448.00
    8845.       0.    7245.    1600.       0.    4172.    1094.    1749.      349.   1446.00
      2.09      .00     1.74     1.46     .100     .100     .100     .000  1444.00  4267.65
  .004694     550.     660.     740.        2        0        0      .00  2569.56  6834.41
0
 FLOW DISTRIBUTION FOR SECNO=      6.64          CWSEL=   1447.85

 STA=    4268.    6140.    6285.    6355.    6450.    6510.    6521.    6535.    6575.    6834.
   PER Q=     81.9      4.7      3.3      3.1      1.9       .5       .7      1.3      2.6
   AREA=   4171.5    268.7    164.7    176.0    111.2     25.9     32.9     74.1    240.3
    VEL=      1.7      1.5      1.8      1.5      1.5      1.8      1.8      1.5      1.0

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XML       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 6.787

 3265 DIVIDED FLOW

      6.79     4.58  1450.58      .00      .00  1450.61      .03     2.72      .00  1451.00
    8845.       0.    5804.    3041.       0.    4002.    2221.    1845.      894.   1447.00
      2.23      .00     1.45     1.37     .100     .100     .100     .000  1446.00  4451.47
  .002991     630.     750.     690.        2        0        0      .00  2737.95  7269.02
0
 FLOW DISTRIBUTION FOR SECNO=      6.79          CWSEL=   1450.58

 STA=    4451.    6210.    6270.    6460.    6590.    6890.    6960.    7050.    7110.    7120.    7130.    7240.    7269.
   PER Q=     65.6      3.6      5.9      4.0     11.3      1.8      2.3      2.3       .5       .5      2.2       .0
   AREA=   4002.3    184.8    395.3    270.5    699.1    128.1    164.7    139.8     28.3     28.3    173.8      8.4
    VEL=      1.5      1.7      1.3      1.3      1.4      1.2      1.2      1.4      1.6      1.6      1.1       .4

 *SECNO 6.906

 3265 DIVIDED FLOW

      6.91     4.42  1453.42      .00      .00  1453.47      .06     2.86      .01  1453.50
    8845.       0.    2990.    5525.       0.    1600.    3150.    1970.      970.   1452.00
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     2.33      .00     1.31     2.10     .100     .100     .100     .000  1449.00  4634.63
   .006609     560.     630.     700.        3        0        0      .00  3232.39  7908.05
0
 FLOW DISTRIBUTION FOR SECNO=      6.91          CWSEL=   1453.42

 STA=    4635.    6165.    6350.    6508.    6582.    6705.    6745.    6782.    6820.    6911.    7072.    7390.    7561.
   PER Q=     25.1      7.5     12.8      6.9     13.0      5.3      3.9      4.5      5.4      3.9      3.8      3.1
    AREA=   1689.7    354.5    460.8    234.3    420.2    156.7    126.4    139.3    219.9    228.0    298.7    190.4
     VEL=      1.3      1.9      2.5      2.6      2.7      3.0      2.7      2.9      2.2      1.5      1.1      1.4
 STA=    7561.    7775.    7908.
   PER Q=      3.4      1.2
    AREA=    226.1    102.7
     VEL=      1.3      1.1

 *SECNO 7.020
     7.02     4.56  1457.56      .00      .00  1457.59      .04     4.12      .00  1457.50
    8769.       0.     1993.    6776.       0.     1454.    4227.    2018.     997.   1455.50
     2.46      .09     1.37     1.60     .100     .100     .100     .000  1453.00  4704.53
   .004686     570.     600.     790.        5        0        0      .00  3702.12  8406.64
0
1
  05/05/88    15:24:47                                                                          PAGE   74


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      7.02          CWSEL=   1457.56

 STA=    4705.    4710.    5640.    5795.    6030.    6345.    6952.    6998.    7019.    7100.    7204.    7368.    7595.
   PER Q=       .0     22.7      4.8      4.3      3.4     12.7      3.5      3.7      6.9      8.9      9.8      4.1
    AREA=       .2   1454.3    280.1    307.1    299.2    711.4    128.1    125.8    267.9    343.9    437.3    296.7
     VEL=       .1      1.4      1.5      1.2      1.0      1.6      2.4      2.6      2.3      2.3      2.0      1.2
 STA=    7595.    7885.    8182.    8407.
   PER Q=      7.0      5.4      2.8
    AREA=    451.5    388.2    190.1
     VEL=      1.4      1.2      1.3

 *SECNO 7.134
     7.13     3.15  1460.65      .00      .00  1460.69      .04     3.10      .00  1460.50
    5750.       49.     2546.    3155.       71.     1549.    1817.    2093.    1037.   1459.00
     2.56      .69     1.64     1.74     .100     .100     .100     .000  1457.50  4391.01
   .005543     570.     600.     630.        3        0        0      .00  1969.18  6360.20
0
 FLOW DISTRIBUTION FOR SECNO=      7.13          CWSEL=   1460.65

 STA=    4391.    4430.    4480.    4545.    5400.    5600.    5858.    6011.    6170.    6280.    6325.    6360.
   PER Q=       .1       .5       .3     44.3     13.8     17.8      6.8      8.9      6.6       .9       .1
    AREA=      12.7     32.5     26.0   1548.6    430.0    554.6    252.4    302.1    224.2     42.5     11.4
     VEL=       .5       .8       .6      1.6      1.8      1.8      1.5      1.7      1.7      1.2       .5

 *SECNO 7.262
     7.26     4.35  1464.35      .00      .00  1464.41      .06     3.71      .00  1463.50
    2728.       9.     2405.     315.       14.     1193.     253.    2120.    1058.   1464.00
     2.66      .64     2.02     1.24     .100     .100     .100     .000  1460.00  4867.10
   .005706     630.     680.     630.        3        0        0      .00   833.00  5700.10
0
 FLOW DISTRIBUTION FOR SECNO=      7.26          CWSEL=   1464.35

 STA=    4867.    4895.    4910.    5405.    5470.    5565.    5645.    5700.
   PER Q=       .1       .3     88.1      4.4      6.4       .6       .1
    AREA=      4.9      9.0   1192.6     87.7    128.1     27.9      9.6
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*SECNO 7.410
     7.41      4.46  1468.46      .00      .00  1468.50      .04      4.09      .00  1466.00
    2728.      125.    2334.     269.      96.    1329.     259.    2146.    1073.   1467.00
     2.78      1.30     1.76     1.04     .100     .100     .100     .000  1464.00  4574.37
  .005277      800.     780.     460.        4        0        0      .00  1022.46  5596.84
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=      7.41          CWSEL=   1468.46

STA=    4574.    4610.    4670.    5310.    5575.    5597.
  PER Q=      .1      4.5     85.6      9.8      .1
   AREA=     9.2     87.6   1329.2    254.3     5.0
    VEL=      .4      1.4      1.8      1.1      .4

*SECNO 7.520
     7.52      3.72  1471.72      .00      .00  1471.77      .05      3.27      .00  1469.70
    2775.      227.    2535.      12.     158.    1433.      21.    2169.    1086.   1471.00
     2.88      1.44     1.77      .58     .100     .100     .100     .000  1468.00  4311.38
  .005770      570.     580.     830.        3        0        0      .00   912.21  5223.58
0
FLOW DISTRIBUTION FOR SECNO=      7.52          CWSEL=   1471.72

STA=    4311.    4385.    4435.    5165.    5224.
  PER Q=      2.4      5.8     91.4       .4
   AREA=     63.8     94.1   1433.3     21.5
    VEL=      1.0      1.7      1.8       .6

*SECNO 7.643
     7.64      4.91  1474.91      .00      .00  1475.03      .12      3.24      .02  1472.00
    2775.      853.    1270.     652.     615.     339.     458.    2191.    1100.   1474.00
     2.95      1.39     3.75     1.42     .090     .050     .090     .000  1470.00  4311.72
  .004445      500.     650.     700.        4        0        0      .00   974.50  5486.22
0
FLOW DISTRIBUTION FOR SECNO=      7.64          CWSEL=   1474.91

STA=    4512.    4530.    4570.    4730.    4840.    4885.    4980.    5110.    5180.    5260.    5335.    5382.    5486.
  PER Q=      .2      2.8     11.3      3.8      1.5     11.1     45.8      2.4      6.7     10.0      3.3      1.1
   AREA=     8.4     56.6    226.3    100.6     41.1    181.8    338.8     64.0    125.1    154.8     66.5     47.6
    VEL=      .7      1.4      1.4      1.0      1.0      1.7      3.7      1.0      1.5      1.8      1.4       .7

*SECNO 7.764

3265 DIVIDED FLOW

     7.76      5.56  1478.06      .00      .00  1478.41      .35      3.31      .07  1476.00
    2775.      762.    1476.     537.     477.     232.     383.    2208.    1113.   1476.00
     2.99      1.60     6.35     1.40     .090     .050     .090     .000  1472.50  4467.85
  .007143      580.     600.     610.        2        0        0      .00   925.20  5506.74
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
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   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      7.76          CWSEL=   1478.06

 STA=    4488.    4575.    4765.    4955.    5012.    5335.    5480.    5505.
  PER Q=      .6      6.8     20.1     53.2     18.0      .9      .5
   AREA=    25.3    154.5    297.0    232.3    343.4    25.4    14.1
    VEL=      .6      1.2      1.9      6.4      1.5      .9      1.0

 *SECNO 7.868
     7.87     5.82  1481.82      .00      .00  1481.97      .15     3.53      .02  1480.00
    2775.    1126.     995.     654.     638.     221.     326.    2224.    1123.   1480.00
     3.05     1.77     4.51     2.00     .090     .050     .090     .000  1476.00  4597.58
  .005042     605.     590.     580.        3        0        0      .00   578.70  5176.28
0
 FLOW DISTRIBUTION FOR SECNO=      7.87          CWSEL=   1481.82

 STA=    4598.    4665.    4705.    4738.    4825.    4911.    4955.    5025.    5138.    5160.    5176.
  PER Q=      6.9      5.6      5.6      9.1      7.6      5.7     35.8     19.3      3.7       .6
   AREA=   110.6     82.3     76.2    148.4    134.0     86.2    220.6    260.9     50.8     14.7
    VEL=      1.7      1.9      2.0      1.7      1.6      1.8      4.5      2.0      2.0      1.1

 *SECNO 7.969
     7.97     3.61  1484.11      .00      .00  1484.21      .10     2.24      .00  1482.00
    2825.     385.    1429.    1011.     310.     431.     705.    2240.    1132.   1482.50
     3.11     1.24     3.31     1.43     .090     .050     .090     .000  1480.50  4650.40
  .003591     460.     530.     600.        3        0        0      .00   856.94  5507.35
0
 FLOW DISTRIBUTION FOR SECNO=      7.97          CWSEL=   1484.11

 STA=    4650.    4860.    4902.    4925.    5095.    5155.    5380.    5445.    5505.    5507.
  PER Q=      7.2      4.2      2.3     50.6      6.6     19.4      5.6      4.1       .0
   AREA=   189.0     78.4     42.9    431.4    119.5    366.4    111.6     87.0       .1
    VEL=      1.1      1.5      1.5      3.3      1.6      1.4      1.4      1.3       .1

 *SECNO 8.073
     8.07     3.29  1486.69      .00      .00  1486.87      .19     2.63      .03  1485.80
    2825.     161.    1585.    1079.     144.     364.     606.    2256.    1142.   1485.00
     3.16     1.11     4.36     1.78     .090     .050     .090     .000  1483.40  4718.52
  .007206     530.     550.     510.        3        0        0      .00   810.04  5528.56
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.07          CWSEL=   1486.69

 STA=    4719.    4785.    4940.    5100.    5305.    5460.    5490.    5520.    5529.
  PER Q=      .6      5.1     56.1     18.6     14.0      3.6      2.0       .1
   AREA=    22.8    121.7    363.6    294.2    222.4     50.5     35.5      2.9
    VEL=      .7      1.2      4.4      1.8      1.8      2.0      1.6       .7

 *SECNO 8.173
     8.17     4.38  1489.38      .00      .00  1489.47      .09     2.59      .01  1487.50
    2825.     729.    1169.     927.     655.     340.     839.    2275.    1157.   1487.50
     3.24     1.11     3.44     1.11     .090     .050     .090     .000  1485.00  4360.83
  .003155     650.     580.     510.        4        0        0      .00  1418.24  5779.06
0
 FLOW DISTRIBUTION FOR SECNO=      8.17          CWSEL=   1489.38
```

```
 STA=    4361.    4590.    4810.    4935.    5050.    5140.    5240.    5380.    5600.    5779.
   PER Q=      4.2      12.4      9.3     41.4      9.6      6.3      6.0      7.0      3.1
    AREA=    147.3     303.9    203.9    340.1    182.8    146.9    177.1    213.9    118.4
     VEL=       .8       1.2      1.3      3.4      1.5      1.2      1.1       .9       .7

 SECNO 8.298
      8.30     5.10  1492.10      .00      .00  1492.46      .36     2.91      .00  1489.50
     2825.     207.     2281.     337.     107.     431.     227.    2292.    1172.   1491.00
      3.27     1.94     5.29     1.49     .090     .050     .090     .000  1487.00  4822.57
   .008013     720.     630.     470.        2        0        0      .00   873.34  5701.91
0
 FLOW DISTRIBUTION FOR SECNO=      8.30          CWSEL=   1492.10

 STA=    4823.    4905.    4922.    5075.    5115.    5145.    5285.    5350.    5479.    5699.    5702.
   PER Q=      3.7      3.7     80.7      5.0      3.0      1.9       .1       .1       .2       .0
    AREA=     66.8     39.9    431.1     73.8     50.9     62.4      6.2     12.3     21.0       .1
     VEL=      1.5      2.6      5.3      2.2      2.1       .9       .3       .3       .3       .2

 *SECNO 8.421
      8.42     5.97  1495.47      .00      .00  1495.63      .16     3.15      .02  1494.00
     2825.    1207.     1293.     325.     937.     291.     259.    2307.    1182.   1494.00
      3.33     1.44     4.45     1.26     .090     .050     .090     .000  1489.50  4479.02
   .003410     660.     650.     460.        2        0        0      .00   744.20  5223.22
0
1
  05/05/88    15:24:47                                                                          PAGE   78

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      8.42          CWSEL=   1495.47

 STA=    4479.    4575.    4760.    4940.    4970.    5040.    5110.    5120.    5135.    5140.    5190.    5223.
   PER Q=      2.0     19.7     19.1      2.0     45.8      4.6      1.1      1.6       .3      3.3       .7
    AREA=     70.9    365.7    355.8     44.3    290.6    103.4     19.8     29.6      7.4     73.8     24.5
     VEL=       .8       1.5      1.5      1.3      4.5      1.3      1.5      1.5      1.3      1.3       .8

 *SECNO 8.535
      8.53     4.95  1497.95      .00      .00  1498.17      .23     2.52      .02  1496.00
     2875.     429.     2268.     178.     260.     538.     150.    2324.    1191.   1496.00
      3.38     1.65     4.21     1.18     .090     .050     .090     .000  1493.00  4573.56
   .004864     720.     600.     480.        3        0        0      .00   555.07  5228.64
0
 FLOW DISTRIBUTION FOR SECNO=      8.53          CWSEL=   1497.95

 STA=    4674.    4810.    4825.    4840.    4860.    5045.    5110.    5229.
   PER Q=      5.2      3.6      3.6      2.4     78.9      4.8      1.4
    AREA=    133.0     44.2     44.2     39.0    538.1     94.2     56.3
     VEL=      1.1      2.4      2.4      1.8      4.2      1.5       .7

 *SECNO 8.639
      8.64     5.64  1500.64      .00      .00  1500.88      .24     2.70      .00  1498.00
     2875.    1572.     1299.      4.     814.     238.       7.    2335.    1198.   1500.00
      3.42     1.93     5.46      .59     .090     .050     .090     .000  1495.00  4480.64
   .006057     420.     540.     550.        3        0        0      .00   587.98  5068.62
0
 FLOW DISTRIBUTION FOR SECNO=      8.64          CWSEL=   1500.64

 STA=    4481.    4515.    4560.    4760.    4920.    4960.    4980.    5045.    5063.
   PER Q=       .2      4.1     35.3     12.2       .8      2.0     45.2       .2
    AREA=     10.0     68.0    466.0    202.0     25.2     22.6    227.0      7.6
```

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    VEL=      .6      1.7      2.2      1.6       .9      1.8      5.5       .6

 *SECNO 8.736
      8.74     6.30  1503.30      .00      .00  1503.55      .25     2.67      .00  1500.00
     2875.     914.     1856.     105.     656.     376.     69.    2347.    1205.   1501.00
      3.46     1.39     4.93     1.53     .090     .050     .090     .000  1497.00  4447.23
   .004887     470.     510.     520.        2        0        0      .00   685.55  5132.77
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      8.74          CWSEL=   1503.30

 STA=    4447.    4512.    4580.    4740.    4799.    4870.    4925.    4978.    5080.    5110.    5133.
   PER Q=     4.0      4.2      4.4      4.9      5.1      4.1      5.1     64.5      3.2       .4
    AREA=    80.0     88.5    128.2     91.5    100.1     79.8     88.0    376.2     54.0     14.8
     VEL=     1.4      1.4      1.0      1.5      1.5      1.5      1.7      4.9      1.7       .9

 *SECNO 8.851
      8.85     6.26  1506.26      .00      .00  1506.51      .26     2.96      .00  1504.50
     2875.     438.     1525.     912.     210.     290.     482.    2360.    1212.   1504.00
      3.50     2.09     5.26     1.83     .090     .050     .090     .000  1500.00  4797.62
   .005473     450.     610.     610.        2        0        0      .00   486.52  5284.14
0
 FLOW DISTRIBUTION FOR SECNO=      8.85          CWSEL=   1506.26

 STA=    4798.    4882.    4910.    4935.    5012.    5160.    5190.    5230.    5284.
   PER Q=     3.4      8.5      3.4     53.0     22.7      3.7      4.0      1.3
    AREA=    68.7     91.3     50.2    289.7    319.5     57.3     66.4     38.5
     VEL=     1.4      2.7      1.9      5.3      2.0      1.9      1.7      1.0

 *SECNO 8.950
      8.95     6.63  1508.83      .00      .00  1509.06      .23     2.55      .00  1506.00
     2875.     229.     1746.     900.     214.     364.     554.    2373.    1219.   1506.00
      3.54     1.07     4.79     1.62     .090     .050     .090     .000  1502.20  4675.97
   .004373     510.     520.     530.        2        0        0      .00   677.74  5353.70
0
 FLOW DISTRIBUTION FOR SECNO=      8.95          CWSEL=   1508.83

 STA=    4676.    4730.    4760.    4905.    4930.    5025.    5075.    5100.    5335.    5354.
   PER Q=      .5       .8      4.0      2.6     60.7      9.2      3.8     18.2       .2
    AREA=    22.5     24.9    120.5     45.8    364.5    129.1     57.0    359.9      7.8
     VEL=      .6      1.0      1.0      1.6      4.8      2.1      1.9      1.5       .6

 *SECNO 9.043
      9.04     7.15  1510.85      .00      .00  1511.09      .24     2.03      .00  1508.00
     2875.     262.     1930.     683.     173.     408.     440.    2385.    1225.   1508.80
      3.58     1.52     4.73     1.55     .090     .050     .090     .000  1503.70  4863.16
   .003329     480.     490.     490.        2        0        0      .00   469.68  5332.84
0
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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FLOW DISTRIBUTION FOR SECNO=      9.04          CWSEL=   1510.85

STA=    4863.    4890.    4970.    5070.    5170.    5300.    5333.
 PER Q=      .1      9.0     67.1     13.3     10.2       .3
  AREA=     7.1    165.8    408.4    219.2    207.0     13.8
   VEL=      .6      1.6      4.7      1.7      1.4       .6

*SECNO 9.113

3265 DIVIDED FLOW

     9.11     7.33  1512.33      .00      .00  1512.58      .25     1.49      .00  1510.00
    2875.     340.    1783.     752.     187.     359.     476.    2394.    1229.   1511.00
     3.61     1.81     4.97     1.58     .090     .050     .090     .000  1505.00  4704.27
  .004169     380.     370.     360.        2        0        0      .00   545.21  5348.16
0
FLOW DISTRIBUTION FOR SECNO=      9.11          CWSEL=   1512.33

STA=    4784.    4960.    4970.    5055.    5100.    5120.    5185.    5330.    5348.
 PER Q=      9.4      2.4     62.0      4.6      3.0      9.9      8.7       .0
  AREA=    156.6     30.8    358.6     82.4     46.6    151.5    192.9      3.0
   VEL=      1.7      2.2      5.0      1.6      1.9      1.9      1.3       .3

*SECNO 9.211
     9.21     7.70  1514.70      .00      .00  1515.17      .47     2.52      .06  1510.00
    2975.    1167.    1635.     174.     576.     227.     100.    2405.    1235.   1512.00
     3.64     2.03     7.20     1.74     .090     .050     .090     .000  1507.00  4638.59
  .005800     510.     520.     505.        2        0        0      .00   459.04  5097.63
0
FLOW DISTRIBUTION FOR SECNO=      9.21          CWSEL=   1514.70

STA=    4639.    4700.    4835.    4905.    4939.    4982.    4990.    5029.    5085.    5098.
 PER Q=      .5      7.8     11.0      7.5      9.5      2.9     54.9      5.7       .1
  AREA=    21.5    162.2    194.1     91.9    116.2     29.6    226.9     95.3      4.4
   VEL=      .6      1.4      2.1      2.4      2.4      2.9      7.2      1.8       .6

*SECNO 9.317
     9.32     7.62  1517.62      .00      .00  1517.98      .36     2.79      .01  1514.00
    2975.     418.    2199.     358.     213.     399.     246.    2416.    1241.   1514.00
     3.67     1.96     5.50     1.45     .090     .050     .090     .000  1510.00  4880.75
  .004334     560.     560.     560.        2        0        0      .00   389.93  5270.69
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=      9.32          CWSEL=   1517.62

STA=    4881.    4905.    4979.    5062.    5105.    5271.
 PER Q=      .6     13.4     73.9      7.8      4.2
  AREA=    19.6    193.6    399.4    112.5    133.9
   VEL=      .9      2.1      5.5      2.1       .9

*SECNO 9.402
     9.40     7.85  1520.35      .00      .00  1520.96      .61     2.91      .08  1518.00
    2975.     571.    2135.     269.     302.     293.     129.    2426.    1245.   1518.00
     3.70     1.89     7.30     2.08     .090     .050     .090     .000  1512.50  4763.07
  .007523     500.     520.     545.        1        0        0      .00   401.84  5164.91
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 FLOW DISTRIBUTION FOR SECNO=      9.48          CWSEL=   1520.35

 STA=    4763.    4770.    4920.    4985.    5045.    5060.    5070.    5105.    5145.    5165.
   PER Q=      .0      8.4     10.7     71.8      3.5      3.4      2.8       .3       .1
    AREA=     1.2    164.4    136.3    292.5     38.9     25.0     47.1     13.9      3.4
     VEL=      .4      1.5      2.3      7.3      2.7      2.7      1.7       .7       .4

 *SECNO 9.473
      9.47     6.41  1522.91      .00      .00  1523.19      .28     2.20      .03  1520.00
     2975.     727.    1391.     856.     416.     227.     418.    2433.    1249.   1520.00
      3.72     1.79     5.86     2.05     .090     .050     .090     .000  1516.50  4750.58
   .004817     370.     370.     370.        2        0        0      .00   477.39  5227.97
0
 FLOW DISTRIBUTION FOR SECNO=      9.47          CWSEL=   1522.91

 STA=    4751.    4768.    4981.    5030.    5109.    5200.    5228.
   PER Q=      .2     24.3     46.8     18.1     10.4       .3
    AREA=     8.0    408.3    237.4    230.4    174.4     12.8
     VEL=      .7      1.8      5.9      2.3      1.8       .7

 *SECNO 9.567
      9.57     8.79  1524.79      .00      .00  1525.12      .33     1.91      .01  1522.00
     3025.     421.    1956.     648.     293.     349.     400.    2446.    1254.   1522.00
      3.76     1.44     5.61     1.62     .090     .050     .090     .000  1516.00  4800.61
   .003152     500.     500.     490.        3        0        0      .00   430.82  5231.63
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      9.57          CWSEL=   1524.79

 STA=    4801.    4833.    4890.    4990.    5035.    5075.    5119.    5205.    5232.
   PER Q=      .2      2.7     11.0     64.7      6.8      7.5      7.0       .2
    AREA=    12.8     73.8    206.5    348.7    111.9    123.0    154.4     10.6
     VEL=      .5      1.1      1.6      5.6      1.8      1.8      1.4       .5

 *SECNO 9.649
      9.65     6.76  1526.26      .00      .00  1526.57      .31     1.44      .00  1521.50
     3025.     959.    1825.     241.     346.     340.     210.    2455.    1258.   1524.00
      3.79     2.77     5.37     1.15     .090     .050     .090     .000  1519.50  4863.52
   .003627     440.     430.     400.        2        0        0      .00   350.07  5213.60
0
 FLOW DISTRIBUTION FOR SECNO=      9.69          CWSEL=   1526.26

 STA=    4864.    4918.    4925.    4930.    4938.    4945.    4970.    5035.    5200.    5214.
   PER Q=      2.3      1.6      2.5      6.0      5.2     14.1     60.3      9.0       .0
    AREA=    61.3     22.8     26.3     52.1     45.6    137.7    339.8    207.7      1.8
     VEL=      1.1      2.1      2.9      3.5      3.5      3.1      5.4      1.2       .3

 *SECNO 9.726
      9.73     7.30  1528.30      .00      .00  1528.36      .66     2.29      .10  1526.00
     3025.     983.    2041.       1.     384.     264.       2.    2462.    1261.   1528.00
      3.80     2.56     7.73     .44     .090     .050     .090     .000  1521.00  4769.95
   .009066     450.     410.     340.        3        0        0      .00   273.19  5043.14
0
 FLOW DISTRIBUTION FOR SECNO=      9.73          CWSEL=   1528.30

 STA=    4770.    4785.    4822.    4840.    4850.    4890.    4925.    4955.    4975.    5032.    5043.
   PER Q=      0      7.0      6.5      2.5      4.7      7.3      6.2      2.4     67.5       0
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    AREA=     2.3     48.1     45.9     25.5     92.0     80.5     54.0     36.0    264.2      1.7
     VEL=      .4      1.9      2.9      2.9      2.7      2.7      2.3      2.3      7.7       .4

 *SECNO 9.791
     9.79     8.09  1530.59      .00      .00  1530.92      .33     1.93      .03  1526.00
    3025.     1167.    1854.       4.     651.     325.       8.    2468.    1263.  1530.00
     3.83     1.79     5.71      .47     .090     .050     .090     .000  1522.50  4658.53
   .004079     310.     340.     360.        2        0        0      .00   419.42  5077.95
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST

 FLOW DISTRIBUTION FOR SECNO=      9.79          CWSEL=   1530.59

 STA=    4659.    4670.    4761.    4891.    4920.    4950.    4980.    4983.    5050.    5078.
   PER Q=      .1      3.7     15.5      5.8      6.0      5.1      2.6     61.3       .1
    AREA=     3.4     99.0    271.5     92.3     85.2     77.7     32.3    324.6      6.2
     VEL=      .5      1.1      1.7      2.1      2.1      2.0      2.4      5.7       .5

 *SECNO 9.899
     9.90     8.09  1533.09      .00      .00  1533.45      .36     2.52      .01  1530.00
    3025.     281.    1777.     966.     190.     293.     441.    2480.    1268.  1531.50
     3.86     1.49     6.06     2.19     .090     .050     .090     .000  1525.00  4808.00
   .005169     455.     570.     620.        3        0        0      .00   431.00  5239.00

 FLOW DISTRIBUTION FOR SECNO=      9.90          CWSEL=   1533.09

 STA=    4808.    4935.    4975.    5035.    5055.    5065.    5085.    5175.    5220.    5239.
   PER Q=     4.0      5.3     58.8      3.2      4.0      8.2     10.2      6.0       .3
    AREA=   106.9     83.4    293.4     46.7     40.9     81.7    167.7     93.9     10.3
     VEL=     1.1      1.9      6.1      2.1      3.0      3.0      1.8      1.9       .8

 *SECNO 9.980
     9.98     7.73  1535.23      .00      .00  1535.52      .30     2.07      .01  1532.00
    3075.     1196.    1614.     265.     611.     280.     189.    2489.    1273.  1534.00
     3.89     1.96     5.76     1.40     .090     .050     .090     .000  1527.50  4687.65
   .004916     500.     430.     250.        1        0        0      .00   500.87  5188.52
0
 FLOW DISTRIBUTION FOR SECNO=      9.98          CWSEL=   1535.23

 STA=    4688.    4700.    4825.    4900.    4980.    5040.    5100.    5125.    5170.    5189.
   PER Q=      .2     11.8     10.8     16.1     52.5      3.2      1.8      3.3       .3
    AREA=     7.6    216.9    167.6    218.8    280.3     74.1     37.1     66.8     11.4
     VEL=      .8      1.7      2.0      2.3      5.8      1.3      1.5      1.5       .8

 *SECNO 10.020
    10.02     7.70  1536.20      .00      .00  1536.84      .64     1.22      .10  1534.00
    3075.     1000.    2004.      71.     406.     258.      44.    2493.    1274.  1534.00
     3.90     2.46     7.76     1.62     .090     .050     .090     .000  1529.50  4793.69
   .007688     180.     210.     230.        2        0        0      .00   276.35  5070.04

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST
```

```
 FLOW DISTRIBUTION FOR SECNO=     10.02          CWSEL=   1536.20

 STA=    4794.    4805.    4820.    4840.    4875.    4932.    4950.    4990.    5029.    5065.    5070.
   PER Q=      .6      3.1      4.2      6.1     10.0      3.2      5.3     65.2      2.3       .0
    AREA=    12.1     36.8     49.0     77.1    125.5     39.6     66.0    258.4     43.3       .5
     VEL=     1.6      2.6      2.6      2.5      2.5      2.5      2.5      7.8      1.6       .3

 *SECNO 10.077
     10.08     8.43  1537.93      .00      .00  1538.35      .42     1.48      .02  1534.00
     3075.     812.     2146.     116.     430.     352.      61.    2499.    1276.   1532.00
      3.92     1.89     6.09     1.91     .090     .050     .090     .000  1529.50  4792.03
   .003248     340.     300.     260.        2        0        0      .00   252.48  5044.52
0
 FLOW DISTRIBUTION FOR SECNO=     10.08          CWSEL=   1537.93

 STA=    4792.    4845.    4945.    4967.    5018.    5022.    5032.    5045.
   PER Q=      1.5     18.3      6.6     69.8      1.6      1.8       .4
    AREA=    51.0    292.6     86.4    352.2     19.7     29.3     12.1
     VEL=      .9      1.9      2.3      6.1      2.5      1.9       .9

 *SECNO 10.137
     10.14     7.82  1539.32      .00      .00  1539.93      .61     1.53      .06  1540.00
     3075.       0.     1927.    1148.       0.     253.     412.    2504.    1278.   1536.00
      3.93      .00     7.61     2.79     .090     .050     .090     .000  1531.50  4977.37
   .007475     220.     320.     400.        2        0        0      .00   204.24  5181.61
0
 FLOW DISTRIBUTION FOR SECNO=     10.14          CWSEL=   1539.32

 STA=    4977.    5025.    5060.    5100.    5122.    5175.    5182.
   PER Q=     62.7      9.2     10.5      7.6     10.0       .2
    AREA=   253.2     98.8    112.9     73.1    123.1      4.4
     VEL=     7.6      2.9      2.9      3.2      2.5      1.1

 *SECNO 10.179
     10.18     9.03  1540.53      .00      .00  1540.85      .33      .99      .03  1536.00
     3075.     283.     2201.     592.     145.     416.     359.    2508.    1279.   1536.00
      3.95     1.94     5.30     1.65     .090     .050     .090     .000  1532.50  4908.11
   .002980     270.     220.     140.        2        0        0      .00   206.08  5194.19
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         GLOB      GCH       GROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=     10.18          CWSEL=   1540.53

 STA=    4900.    4925.    4960.    5030.    5040.    5065.    5080.    5115.    5185.    5194.
   PER Q=       .8      8.4     71.6      2.4      3.4      2.8      6.5      4.1       .0
    AREA=    22.1    123.4    415.5     35.3     63.1     45.4    105.9    106.8      2.4
     VEL=     1.2      2.1      5.3      2.1      1.7      1.9      1.9      1.2       .4

 *SECNO 10.283
     10.28     7.98  1542.48      .00      .00  1542.87      .39     2.00      .02  1540.00
     3075.     782.     1883.     410.     419.     304.     185.    2519.    1283.   1540.00
      3.98     1.87     6.20     2.21     .090     .050     .090     .000  1534.50  4755.64
   .004593     500.     550.     580.        3        0        0      .00   341.75  5097.39
0
 FLOW DISTRIBUTION FOR SECNO=     10.28          CWSEL=   1542.48
```

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 STA=    4756.    4770.    4810.    4830.    4850.    4938.    4970.    5025.    5045.    5065.    5080.    5095.    5097.
   PER Q=      .0      2.8      4.5      4.5     10.0      3.6     61.2      3.3      5.1      3.8      1.0       .0
    AREA=     3.4     59.1     59.6     59.6    174.1     63.3    303.6     49.6     64.6     48.4     22.2       .6
     VEL=      .4      1.5      2.3      2.3      1.8      1.8      6.2      2.1      2.4      2.4      1.4       .4

 *SECNO 10.382
    10.38     7.96  1544.46      .00      .00  1544.81      .35     1.94      .00  1542.00
    3075.      103.     2561.     411.      88.     498.     215.    2523.    1287.  1540.00
     4.01     1.16     5.14     1.92     .090     .050     .090     .000  1536.50  4309.35
  .003092     530.     520.     500.        1        0        0      .00   262.62  5171.96
0
 FLOW DISTRIBUTION FOR SECNO=     10.38          CWSEL=   1544.46

 STA=    4909.    4915.    4975.    5065.    5072.    5080.    5090.    5155.    5172.
   PER Q=      .0      3.3     83.3      3.4      4.0      2.3      3.6       .0
    AREA=     1.3     87.1    498.2     38.2     43.6     34.5     94.4      3.8
     VEL=      .3      1.2      5.1      2.8      2.8      2.1      1.2       .3

 *SECNO 10.444

 3265 DIVIDED FLOW

    10.44     5.47  1545.47      .00      .00  1545.61      .14      .78      .02  1544.00
    3125.      28.     3048.     49.      49.     990.      84.    2537.    1289.  1546.00
     4.04      .59     3.08      .59     .090     .050     .090     .000  1540.00  4303.92
  .001897     360.     330.     310.        2        0        0      .00   449.56  5286.71
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XML      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=     10.44          CWSEL=   1545.47

 STA=    4804.    4870.    5145.    5250.    5297.
   PER Q=      .9     97.5      1.1       .5
    AREA=    48.5    990.2     56.6     27.0
     VEL=      .6      3.1       .6       .6

1
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                                                                THIS RUN EXECUTED 05/05/88    15:33:28
 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
 ***************************************************

 T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS - WITTMANN ADMS
 T2      10 YEAR FLOOD EVENT
 T3      TRILBY WASH (CAP TO MCMICKEN DAM)

 J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ
```

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRADE
	15.000	.000	-1.000	.000	.000	.000	.000	.000	.000	15.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 4

CCHV= .100 CEHV= .300

*SECNO 2.737

2.74	7.05	1344.55	.00	1340.00	1344.68	.13	.00	.00	1338.00
4773.	1717.	2246.	810.	1352.	582.	451.	0.	0.	1340.00
.00	1.27	3.86	1.80	.100	.050	.100	.000	1337.50	4231.76
.001724	0.	0.	0.	0	0	7	.00	943.52	5181.28

0

FLOW DISTRIBUTION FOR SECNO= 2.74 CWSEL= 1344.55

STA=	4232.	4718.	4774.	4895.	4942.	4980.	5085.	5100.	5140.	5162.	5181.
PER Q=	10.3	4.6	7.5	5.0	8.5	47.1	3.1	9.0	3.9	1.0	
AREA=	494.6	170.9	308.8	167.0	211.0	581.7	79.5	222.1	105.7	43.9	
VEL=	1.0	1.3	1.2	1.4	1.9	3.9	1.9	1.9	1.8	1.0	

*SECNO 2.811

2.81	6.30	1345.30	.00	.00	1345.38	.08	.69	.00	1340.00
4773.	2433.	1591.	749.	1892.	455.	594.	26.	9.	1342.30
.06	1.29	3.50	1.26	.100	.050	.100	.000	1339.00	4310.59
.001603	450.	390.	400.	2	0	0	.00	945.90	5256.49

0

FLOW DISTRIBUTION FOR SECNO= 2.81 CWSEL= 1345.30

STA=	4311.	4580.	4625.	4705.	4750.	4810.	4952.	4970.	5060.	5240.	5256.
PER Q=	10.4	5.8	7.0	3.9	7.7	13.7	2.5	33.3	15.2	.5	
AREA=	504.5	182.1	258.3	143.9	242.8	483.2	77.4	453.0	566.5	27.2	
VEL=	1.0	1.5	1.3	1.3	1.5	1.3	1.6	3.5	1.3	.9	

*SECNO 2.890

2.89	4.54	1346.04	.00	.00	1346.12	.08	.74	.00	1344.00
4773.	1107.	1977.	1689.	1046.	606.	1143.	52.	19.	1344.00
.11	1.06	3.26	1.48	.100	.050	.100	.000	1341.50	4353.64
.002247	380.	420.	380.	2	0	0	.00	1177.53	5531.36

0

FLOW DISTRIBUTION FOR SECNO= 2.89 CWSEL= 1346.04

STA=	4354.	4550.	4612.	4695.	4860.	4957.	5129.	5200.	5281.	5332.	5425.	5521.	5531.
PER Q=	5.0	3.6	4.5	6.8	3.3	41.4	3.4	3.9	4.8	14.1	9.0	.2	
AREA=	261.6	141.9	181.0	302.9	159.0	606.4	144.8	165.1	155.0	375.6	291.7	10.4	
VEL=	.9	1.2	1.2	1.1	1.0	3.3	1.1	1.1	1.5	1.0	1.5	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*SECNO 3.023

3265 DIVIDED FLOW

     3.02      5.41  1347.91      .00      .00  1348.10      .19      1.95      .03  1344.00
    4773.      420.     1911.    2442.     264.     379.     1292.      89.      34.   1350.00
      .17      1.59      5.04     1.89     .100     .050      .100     .000  1342.50  4346.37
  .003683      700.      700.     670.        2        0         0      .00   732.70  5586.95
0
 FLOW DISTRIBUTION FOR SECNO=      3.02          CWSEL=   1347.91

 STA=    4346.    4810.    4948.    4958.    5045.    5321.    5450.    5533.    5565.    5587.
   PER Q=      4.2      3.5      1.1     40.0     13.0     18.8     15.6      3.4       .4
    AREA=    103.4    131.7     29.1    378.8    411.7    439.7    332.2     87.3     20.9
     VEL=      1.9      1.3      1.8      5.0      1.5      2.0      2.2      1.8       .9

 *SECNO 3.199

 3265 DIVIDED FLOW

     3.20      6.34  1352.34      .00      .00  1352.87      .53      4.67      .10  1350.00
    4773.      654.     2504.    1615.     481.     317.     822.     126.      55.   1350.00
      .22      1.36      7.89     1.96     .100     .050      .100     .000  1346.00  4065.48
  .007380      825.      930.     940.        4        0         0      .00  1293.14  5515.08
0
 FLOW DISTRIBUTION FOR SECNO=      3.20          CWSEL=   1352.34

 STA=    4065.    4658.    4968.    5025.    5072.    5115.    5290.    5380.    5515.
   PER Q=      4.0      9.7     52.5      4.7      5.9     16.0      4.9      2.3
    AREA=    171.5    309.5    317.3    101.4    113.6    365.6    138.5    103.4
     VEL=      1.1      1.5      7.9      2.2      2.5      3.1      1.7      1.1

 *SECNO 3.360
     3.36      6.44  1356.94      .00      .00  1357.08      .14      4.17      .04  1354.00
    4773.     1600.     1498.    1675.    1320.     307.     980.     167.      83.   1354.00
      .31      1.21      4.88     1.71     .100     .050      .100     .000  1350.50  3859.25
  .003560      840.      850.     830.        2        0         0      .00  1701.69  5560.94
0
 FLOW DISTRIBUTION FOR SECNO=      3.36          CWSEL=   1356.94

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        QLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 STA=    3859.    4190.    4405.    4600.    4785.    4830.    4965.    5032.    5072.    5115.    5145.    5195.    5218.
   PER Q=      4.1      3.1      3.6      3.4      3.8     15.5     31.4      3.3      3.5      3.4      3.4      6.2
    AREA=    254.2    178.0    194.2    181.8    103.9    402.2    307.1     97.7    105.0     88.3    109.6    113.4
     VEL=       .8       .8       .9       .9      1.7      1.8      4.9      1.6      1.6      1.8      1.5      2.6
 STA=    5218.    5241.    5269.    5485.    5561.
   PER Q=      7.7      3.1      3.4      1.0
    AREA=    130.9     82.4    184.0     68.7
     VEL=      2.8      1.8       .9       .7

 *SECNO 3.521
     3.52      4.72  1361.72      .00      .00  1362.00      .28      4.88      .04  1360.00
    4773.     1839.     1339.    1595.    1014.     181.     814.     211.     115.   1360.00
      .38      1.81      7.39     1.96     .100     .050      .100     .000  1357.00  4131.11
  .011279      830.      850.     830.        3        0         0      .00  1628.32  5759.43
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 FLOW DISTRIBUTION FOR SECNO=      3.92          CWSEL=   1361.72

 STA=    4131.    4250.    4450.    4595.    4815.    4900.    5030.    5060.    5252.    5410.    5522.    5625.    5759.
   PER Q=     5.3     11.2      6.3      8.0      7.6     28.1      3.1     10.9      7.3      9.7      3.1       .2
    AREA=   135.4    274.4    171.2    231.4    201.7    181.1     59.2    259.7    193.1    183.6     95.9     22.7
     VEL=     1.9      1.9      1.8      1.7      1.8      7.4      2.5      2.0      1.8      2.3      1.6       .5

 *SECNO 3.636

 3265 DIVIDED FLOW

     3.64     4.77  1365.77      .00      .00  1365.85      .08     3.83      .02  1364.00
    4773.    2418.    1024.    1332.    1352.     233.    1272.     251.     147.  1364.00
      .48     1.24     4.39     1.05     .100     .050     .100     .000  1361.00  3646.79
  .003778     680.     610.     580.        5        0        0      .00  2741.54  6578.72
0
 FLOW DISTRIBUTION FOR SECNO=      3.64          CWSEL=   1365.77

 STA=    3647.    3932.    4085.    4215.    4342.    4380.    4555.    4650.    4735.    4780.    4845.    4970.    5032.
   PER Q=     5.9      7.6      5.0      4.8      3.1      6.0      3.5      4.5      3.4      3.2      3.7     21.4
    AREA=   282.2    271.3    198.0    191.2     89.9    246.8    139.4    155.7    102.3    115.2    160.4    232.9
     VEL=     1.0      1.3      1.2      1.2      1.6      1.2      1.2      1.4      1.6      1.3      1.1      4.4
 STA=    5032.    5085.    5135.    5240.    5390.    5522.    5595.    6285.    6579.
   PER Q=     3.7      3.7      3.0      4.3      3.8      3.6      4.6      1.2
    AREA=   114.0    111.6    133.7    190.9    168.0    189.4    311.1    113.5
     VEL=     1.6      1.6      1.1      1.1      1.1      1.3       .7       .5

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EB       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 3.797

 3265 DIVIDED FLOW

     3.80     3.51  1370.51      .00      .00  1370.59      .07     4.73      .00  1369.00
    4773.     507.     4244.     23.     296.    1893.      31.     305.     191.  1370.00
      .58     1.71     2.24     .73     .000     .000     .000     .000  1367.00  4117.68
  .009461     780.     850.     890.        4        0        0      .00  1841.80  6328.43
0
 FLOW DISTRIBUTION FOR SECNO=      3.80          CWSEL=   1370.51

 STA=    4118.    4150.    4255.    4375.    4455.    5825.    5944.
   PER Q=      .1     3.4      3.9      3.1     88.9       .5
    AREA=      8.4     96.3    110.1     81.4   1893.4     30.7
     VEL=      .7      1.7      1.7      1.8      2.2       .7

 *SECNO 3.958
     3.96     3.57  1375.57      .00      .00  1375.61      .05     5.02      .00  1372.50
    4773.     231.     3283.    1259.     117.    1795.     877.     349.     223.  1374.50
      .71     1.97     1.83     1.44     .000     .000     .000     .000  1372.00  4483.66
  .004609     400.     850.     630.        5        0        0      .00  1913.76  6397.42

 FLOW DISTRIBUTION FOR SECNO=      3.96          CWSEL=   1375.57

 STA=    4484.    4515.    4555.    5582.    5820.    5945.    6250.    6397.
   PER Q=      .6     4.3     68.8     10.0      7.0      9.0       .5
    AREA=     24.6     92.7   1794.6    313.4    195.9    325.4     41.8
     VEL=      1.1      2.2      1.8      1.5      1.7      1.3       .5
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*SECNO 4.053
     4.05     3.20  1378.20      .00      .00  1378.26      .06     2.64      .00  1375.50
    4773.     362.     3380.    1031.     164.     1649.     750.     382.     246.   1377.50
      .78     2.20     2.05     1.37     .080     .000     .000     .000  1375.00  4387.05
  .005096     450.     500.     600.        4        0        0      .00  1845.31  6232.36
0
FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1378.20

STA=    4387.    4435.    4480.    5400.    5605.    5900.    6185.    6232.
  PER Q=      1.8      5.8     70.8      5.4     11.6      4.5       .0
   AREA=     54.1    110.1   1648.8    194.0    353.0    198.5      4.7
    VEL=      1.6      2.5      2.1      1.3      1.6      1.1       .3

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COBAR    TOPWID     ENDST

*SECNO 4.157
     4.16     5.31  1380.81      .00      .00  1380.86      .05     2.60      .00  1380.00
    4730.     543.     3151.    1036.     383.     1617.     856.     416.     270.   1380.00
      .87     1.42     1.95     1.21     .080     .080     .080     .000  1375.50  4110.61
  .004096     470.     550.     570.        2        0        0      .00  1946.80  6057.41
0
FLOW DISTRIBUTION FOR SECNO=      4.16          CWSEL=   1380.81

STA=    4111.    4125.    4265.    4410.    5180.    5565.    5930.    6057.
  PER Q=       .1      5.6      5.8     66.6     10.9     10.3       .7
   AREA=      5.9    185.1    191.7   1617.2    412.7    391.3     52.4
    VEL=       .7      1.4      1.4      1.9      1.2      1.2       .7

*SECNO 4.275

3265 DIVIDED FLOW

     4.28     3.31  1383.31      .00      .00  1383.39      .08     2.52      .01  1382.00
    4730.    1319.     1537.    1873.     848.     457.     1423.     456.     297.   1382.00
      .96     1.56     3.36     1.32     .090     .050     .090     .000  1380.00  4213.53
  .003968     550.     620.     680.        3        0        0      .00  1778.45  6132.35
0
FLOW DISTRIBUTION FOR SECNO=      4.28          CWSEL=   1383.31

STA=    4214.    4295.    4535.    4600.    4650.    4715.    4805.    4870.    5060.    5250.    5595.    5975.    6132.
  PER Q=      3.2      3.4      6.9      5.6      3.0      3.6      2.3     32.5      4.8     15.5     17.7      1.7
   AREA=    112.7    125.5    164.4    130.9    100.6    128.6     85.6    457.3    208.1    525.4    595.6     94.1
    VEL=      1.3      1.3      2.0      2.0      1.4      1.3      1.2      3.4      1.1      1.4      1.4       .9

*SECNO 4.405
     4.41     4.44  1386.44      .00      .00  1386.73      .29     3.28      .06  1384.00
    4730.     387.     3308.    1035.     173.     654.     912.     492.     323.   1386.00
     1.00     2.16     5.06     1.14     .090     .050     .090     .000  1382.00  4791.71
  .005797     670.     690.     700.        3        0        0      .00  1453.91  6245.62

FLOW DISTRIBUTION FOR SECNO=      4.41          CWSEL=   1386.44

STA=    4792.    4860.    4880.    5075.    5270.    5770.    6100.    6246.
  PER Q=      5.4      2.8     69.9      3.0     10.2      7.9       .9
   AREA=    128.5     53.8    653.6    129.6    417.0    303.9     35.0
    VEL=      2.0      2.4      5.1      1.1      1.2      1.2       .7
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


*SECNO 4.539
     4.54     4.53  1390.08      .00      .00  1390.29      .21     3.55      .01  1390.00
    4730.       0.     2906.    1824.       0.     640.    1391.     521.     346.  1386.00
     1.06      .01     4.54     1.31     .090     .050     .090     .000  1383.50  4090.81
  .004555     730.     705.     660.        3        0        0      .00  1497.36  6388.17
0
 FLOW DISTRIBUTION FOR SECNO=      4.54          CWSEL=   1390.08

 STA=    4891.    5080.    5091.    5218.    5281.    5475.    5885.    6375.    6388.
   PER Q=     61.4      1.7     10.1      4.0      7.3     10.9      4.6       .0
    AREA=   640.5     33.8    263.4    114.9    256.9    440.4    281.4       .5
     VEL=     4.5      2.3      1.8      1.7      1.3      1.2       .8       .1

 *SECNO 4.679

 3265 DIVIDED FLOW

     4.68     7.75  1392.75      .00      .00  1392.89      .14     2.60      .01  1392.00
    4730.    2360.     2333.      36.    1023.     652.      61.     553.     365.  1392.00
     1.13     2.31     3.58      .59     .090     .050     .090     .000  1385.00  4419.84
  .002812     765.     740.     700.        3        0        0      .00   799.47  5239.00
0
 FLOW DISTRIBUTION FOR SECNO=      4.68          CWSEL=   1392.75

 STA=    4420.    4505.    4515.    4535.    4575.    4590.    4710.    4900.    5090.    5239.
   PER Q=      3.3      3.4     10.1     20.1      5.1      6.9      1.1     49.3       .8
    AREA=   117.8     57.5    145.1    290.2     86.3    230.5     95.7    651.7     61.3
     VEL=      1.3      2.8      3.3      3.3      2.8      1.4       .6      3.6       .6

 *SECNO 4.810

 3265 DIVIDED FLOW

     4.81     4.11  1395.61      .00      .00  1395.97      .35     3.01      .07  1394.00
    4730.    1422.     3305.       3.     745.     584.       5.     577.     377.  1396.60
     1.18     1.91     5.66      .65     .090     .050     .090     .000  1391.50  4101.82
  .007580     700.     690.     620.        2        0        0      .00   783.70  5196.10
0
 FLOW DISTRIBUTION FOR SECNO=      4.81          CWSEL=   1395.61

 STA=    4102.    4130.    4158.    4203.    4282.    4350.    4511.    4900.    5130.    5190.    5196.
   PER Q=       .6      1.9      5.7     10.0      4.6      3.4      3.8     69.9       .0       .0
    AREA=     22.7     45.1    106.2    186.4    109.5    119.6    145.8    583.8      2.8      1.9
     VEL=      1.2      2.0      2.5      2.5      2.0      1.2      1.2      5.7       .7       .6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


*SECNO 4.974
     4.97     5.63  1400.63      .00      .00  1400.61      .19     4.53      .02  1400.00
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    4730.     784.    2700.    1247.     652.     621.     552.     607.     397.   1398.00
     1.25     1.20     4.35     2.26     .090     .050     .090     .000  1395.00  4187.47
  .004181     785.     870.     785.        4        0        0      .00  1310.01  5497.48
0
 FLOW DISTRIBUTION FOR SECNO=      4.97          CWSEL=   1400.42

 STA=    4187.    4482.    4898.    5088.    5219.    5250.    5415.    5497.
   PER Q=     13.4      3.2     57.1     12.9     10.0      3.1       .4
    AREA=    443.6    208.8    620.7    252.1    152.6    117.8     29.4
     VEL=      1.4       .7      4.3      2.4      3.1      1.2       .6

 1490 NH CARD USED
 *SECNO 5.099

 3265 DIVIDED FLOW

     5.10     5.39  1403.39      .00      .00  1403.45      .06     2.83      .01  1402.00
    4730.     176.     4554.       0.     124.     2238.       0.     639.     420.   1404.00
     1.34     1.42     2.03      .00     .080     .061     .100     .000  1391.00  3732.38
  .004349     760.     660.     590.        4        0        0      .00  1660.09  5436.38
0
 FLOW DISTRIBUTION FOR SECNO=      5.10          CWSEL=   1403.39

 STA=    3732.    3838.    5448.
   PER Q=      3.7     96.3
    AREA=    124.0   2237.8
     VEL=      1.4      2.0

 1490 NH CARD USED
 *SECNO 5.217

 3265 DIVIDED FLOW

     5.22     5.15  1406.15      .00      .00  1406.28      .13     2.81      .02  1404.00
    4730.     180.     4550.       0.      81.     1539.       0.     668.     439.   1407.00
     1.40     2.22     2.96      .00     .050     .047     .100     .000  1401.00  3932.60
  .004711     660.     620.     560.        2        0        0      .00  1034.10  5461.66
0
1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      5.22          CWSEL=   1406.15

 STA=    3933.    4010.    5500.
   PER Q=      3.8     96.2
    AREA=     80.9   1539.0
     VEL=      2.2      3.0

 *SECNO 5.346
     5.35     4.17  1410.17      .00      .00  1410.35      .18     4.05      .01  1410.00
    4730.     663.     2244.    1823.     369.     569.     572.     692.     454.   1408.00
     1.45     1.80     3.94     3.19     .090     .050     .090     .000  1405.00  4437.87
  .007850     710.     680.     650.        4        0        0      .00   911.80  5349.67
0
 FLOW DISTRIBUTION FOR SECNO=      5.35          CWSEL=   1410.17

 STA=    4438.    4610.    4715.    4815.    5125.    5165.    5215.    5290.    5305.    5350.
   PER Q=      4.9      8.4       .8     47.4      3.2      9.2     22.6      3.2       .4
    AREA=    150.0    105.6     32.7    569.0     70.7    145.9    393.9     47.5     16.6
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    VEL=     1.5      2.1      1.1      3.9      2.1      3.0      3.6      3.1      1.3

 CCHV=    .300 CEHV=    .500
 1490 NH CARD USED
 *SECNO 5.490

 3265 DIVIDED FLOW

      5.49     7.44  1414.44      .00      .00  1414.93      .49     4.43      .15  1410.00
     4730.      578.     3361.     791.     375.     510.     515.     717.     471.  1412.00
      1.49     1.54     6.59     1.54     .085     .050     .050     .000  1407.00  4505.16
   .004551     800.     760.     720.        3        0        0      .00  1048.32  5697.54
0
 FLOW DISTRIBUTION FOR SECNO=      5.49          CWSEL=   1414.44

 STA=    4505.    4621.    4949.    4950.    5045.    5090.    5116.    5135.    5228.    5698.
   PER Q=     3.1      5.5      3.6     71.0      4.2      4.3      3.1      3.6      1.5
    AREA=   121.7    215.5     37.8    509.8    109.7     83.4     65.3    127.3    122.7
     VEL=     1.2      1.2      4.5      6.6      1.8      2.3      2.3      1.3       .6

 1490 NH CARD USED
 *SECNO 5.544
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3265 DIVIDED FLOW

      5.54     7.79  1415.79      .00      .00  1415.98      .19      .96      .09  1417.50
     4730.       27.     2977.    1726.      48.     714.     989.     728.     478.  1412.00
      1.52      .56     4.17     1.75     .100     .050     .085     .000  1403.00  4663.75
   .002503     260.     290.     300.        2        0        0      .00   890.90  5730.88
0
 FLOW DISTRIBUTION FOR SECNO=      5.54          CWSEL=   1415.79

 STA=    4664.    4737.    5065.    5100.    5230.    5275.    5495.    5731.
   PER Q=      .6     62.9     10.2     18.9      3.9      3.2       .3
    AREA=    47.7    714.1    132.9    493.8    125.9    191.8     44.1
     VEL=      .6      4.2      3.6      1.8      1.5       .8       .3

 1490 NH CARD USED
 *SECNO 5.579

 3265 DIVIDED FLOW

      5.58     7.22  1416.22      .00      .00  1416.57      .36      .51      .08  1420.00
     4690.       70.     4620.      0.      83.     959.      0.     735.     481.  1418.00
      1.53      .85     4.82     .00     .086     .050     .085     .000  1409.00  4588.92
   .002529     130.     190.     260.        2        0        0      .00   252.21  5074.10
0
 FLOW DISTRIBUTION FOR SECNO=      5.58          CWSEL=   1416.22

 STA=    4589.    4677.    5079.
   PER Q=     1.5     98.5
    AREA=    82.5    958.8
     VEL=      .8      4.8

 CCHV=    .100 CEHV=    .300
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*SECNO 5.645

3265 DIVIDED FLOW

     5.64     6.45  1417.45      .00      .00  1417.60      .15     1.01      .02  1417.00
    4690.    1288.    2036.    1366.     778.     493.     550.     745.     484.   1416.00
     1.56     1.65     4.13     2.49     .097     .050     .100     .000  1411.00  4450.99
  .003990     325.     350.     180.        2        0        0      .00   788.90  5390.88
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      5.64          CWSEL=   1417.45

STA=    4451.    4525.    4655.    4805.    4820.    4830.    4855.    4915.    5065.    5095.    5120.    5145.    5165.
  PER Q=     3.9      3.5      6.9      4.3      3.9      3.9      1.1     43.4      4.7      9.8      9.8      3.1
   AREA=   108.8    156.1    236.3     74.3     59.5     86.3     57.0    492.6    103.5    148.8    148.8     69.0
    VEL=     1.7      1.1      1.4      2.7      3.1      2.1       .9      4.1      2.1      3.1      3.1      2.1
STA=    5165.    5391.
  PER Q=     1.8
   AREA=    79.7
    VEL=     1.0

1490 NH CARD USED
*SECNO 5.717

3265 DIVIDED FLOW

     5.72     6.94  1419.94      .00      .00  1420.20      .26     2.57      .03  1419.50
    4690.       6.    4684.       0.      10.    1148.       0.     759.     492.   1420.20
     1.59      .57     4.08      .00     .100     .053     .100     .000  1413.00  4395.55
  .011294     410.     410.     400.        3        0        0      .00   767.72  5419.82
0
FLOW DISTRIBUTION FOR SECNO=      5.72          CWSEL=   1419.94

STA=    4396.    4442.    5455.
  PER Q=      .1     99.9
   AREA=    10.2   1148.2
    VEL=      .6      4.1

1490 NH CARD USED
*SECNO 5.777

3265 DIVIDED FLOW

     5.78     5.46  1422.46      .00      .00  1422.62      .16     2.41      .01  1421.00
    4690.    1699.    2686.     305.    1047.     680.     210.     770.     500.   1422.50
     1.62     1.62     3.95     1.45     .100     .050     .090     .000  1417.00  4236.16
  .005455     300.     320.     350.        2        0        0      .00  1353.63  5618.04
0
FLOW DISTRIBUTION FOR SECNO=      5.78          CWSEL=   1422.46

STA=    4236.    4445.    4540.    4680.    4795.    4825.    4845.    4875.    5160.    5388.    5618.
  PER Q=     6.3      6.8      6.2      6.6      4.9      3.3      2.2     57.3      3.9      2.7
   AREA=   239.4    186.3    204.6    196.8     96.3     64.2     58.8    680.3    113.5     96.3
    VEL=     1.2      1.7      1.4      1.6      2.4      2.4      1.7      3.9      1.6      1.3

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1490 NH CARD USED
 *SECNO 5.040
      5.04     5.14  1424.64      .00      .00  1424.71      .07     2.09      .01  1424.00
     4690.      39.     4561.      90.      49.     2130.      83.     786.     510.  1424.00
      1.66      .91      2.14     1.08     .090     .034     .000     .000  1419.50  4271.99
   .006959     300.      350.     340.        3        0        0      .00  1490.32  5762.30
0
 FLOW DISTRIBUTION FOR SECNO=      5.04          CWSEL=   1424.64

 STA=    4272.    4390.    5612.    5762.
   PER Q=      .8     97.2      1.9
    AREA=    48.5   2130.3     82.9
     VEL=      .8      2.1      1.1

 1490 NH CARD USED
 *SECNO 5.361
      5.36     2.90  1428.20      .00      .00  1428.27      .07     3.55      .00  1427.50
     4690.      50.     4525.     114.      70.     2074.     119.     820.     534.  1426.50
      1.75      .72      2.18      .96     .100     .060     .100     .000  1425.30  4148.75
   .004517     620.      640.     710.        5        0        0      .00  1643.15  5797.90
0
 FLOW DISTRIBUTION FOR SECNO=      5.36          CWSEL=   1428.20

 STA=    4149.    4275.    5665.    5798.
   PER Q=      1.1     96.5      2.4
    AREA=    70.1   2073.7    119.2
     VEL=      .7      2.2      1.0

 1490 NH CARD USED
 *SECNO 6.082

 3265 DIVIDED FLOW

      6.00     2.95  1431.95      .00      .00  1432.01      .06     3.74      .00  1430.00
     4690.    1523.     3110.      56.     811.     1572.      56.     853.     559.  1431.00
      1.84     1.88      1.98     1.00     .092     .083     .000     .000  1429.00  3773.93
   .008234     550.      640.     750.        2        0        0      .00  1910.25  5843.52
0
 FLOW DISTRIBUTION FOR SECNO=      6.00          CWSEL=   1431.95

 STA=    3774.    3935.    4070.    4140.    4224.    4505.    5695.    5850.
   PER Q=      5.6      9.9      4.9      4.1      8.1     66.3      1.2
    AREA=   157.2    236.1    119.2    111.0    187.4   1572.5     56.2
     VEL=      1.7      2.0      1.9      1.7      2.0      2.0      1.0

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 6.200
      6.20     2.51  1436.01      .00      .00  1436.06      .06     4.06      .00  1441.50
     4690.        0     4670.      11        0     2622      20      000     570  1436.50
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     1.91      .00     1.92      .56     .100     .100     .100     .000  1433.50  4337.99
   .008814     400.     490.     600.        3        0        0      .00  1582.34  5370.33
0
 FLOW DISTRIBUTION FOR SECNO=      6.20          CWSEL=   1436.01

 STA=    4388.    5890.    5970.
   PER Q=     99.8       .2
    AREA=   2432.1     20.2
     VEL=      1.9       .6

 *SECNO 6.293
     6.29     2.45  1438.95      .00      .00  1438.99      .03     2.92      .00  1440.00
    4690.       0.    4145.     545.       0.    2857.     450.     912.     598.   1438.00
     2.00      .00     1.45     1.21     .100     .100     .100     .000  1436.50  4213.40
   .004427     400.     490.     340.        4        0        0      .00  1969.87  6183.27
0
 FLOW DISTRIBUTION FOR SECNO=      6.29          CWSEL=   1438.95

 STA=    4213.    5820.    5925.    6105.    6183.
   PER Q=     88.4      4.1      7.0       .5
    AREA=   2856.6    152.1    260.8     37.1
     VEL=      1.5      1.3      1.3       .6

 *SECNO 6.395

 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     1442.50 ELREA=     1444.00

     6.39     2.60  1441.60      .00      .00  1441.63      .03     2.65      .00  1442.50
    4690.       0.    4690.       0.       0.    3298.       0.     952.     624.   1444.00
     2.10      .00     1.42      .00     .100     .100     .100     .000  1439.00  4126.66
   .005584     460.     540.     450.        4        0        0      .00  2275.53  6402.19

 FLOW DISTRIBUTION FOR SECNO=      6.39          CWSEL=   1441.60

 STA=    4127.    6610.
   PER Q=    100.0
    AREA=   3298.0
     VEL=      1.4

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        DLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 6.520
     6.52     2.39  1444.39      .00      .00  1444.42      .02     2.79      .00  1444.00
    4690.      24.    3985.     681.      53.    3158.     651.    1005.     659.   1442.50
     2.25      .45     1.26     1.05     .100     .100     .100     .000  1442.00  4072.32
   .003381     520.     660.     530.        3        0        0      .00  2525.38  6597.69
0
 FLOW DISTRIBUTION FOR SECNO=      6.52          CWSEL=   1444.39

 STA=    4072.    4090.    4215.    6005.    6270.    6455.    6490.    6505.    6525.    6598.
   PER Q=       .0       .5     85.0     11.2      2.8       .1       .1       .2       .1
    AREA=       3.5     49.1   3158.4    435.4    165.2     13.8      9.6     12.9     14.3
     VEL=       .3       .5      1.3      1.2       .8       .5       .6       .6       .3

 *SECNO 6.645
     6.64     3.13  1447.13      .00      .00  1447.15      .03     2.74      .00  1448.00
    4690.       0.    3967.     723.       0.    2827.     627.    1062.     698.   1446.00
```

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  .005007     550.     660.     740.       3       0       0     .00  2426.23  6732.79
0
 FLOW DISTRIBUTION FOR SECNO=      6.64          CWSEL=   1447.13

 STA=    4307.    6140.    6285.    6355.    6450.    6510.    6521.    6535.    6575.    6733.
   PER Q=    84.6      4.0      3.5      2.6      1.6       .6       .7      1.1      1.4
   AREA=  2826.7    163.4    113.9    107.1     67.6     17.9     22.8     45.1     88.9
    VEL=     1.4      1.1      1.4      1.1      1.1      1.5      1.5      1.1       .7

 *SECNO 6.787

 3265 DIVIDED FLOW

     6.79     3.75  1449.75      .00      .00  1449.77      .02     2.62      .00  1451.00
    4690.       0.    3377.    1313.       0.    2761.    1365.    1126.     738.  1447.00
     2.57      .00     1.22      .96     .100     .100     .100     .000  1446.00  4502.32
  .002650     630.     750.     690.        3        0        0      .00  2381.76  7226.57
0
 FLOW DISTRIBUTION FOR SECNO=      6.79          CWSEL=   1449.75

 STA=    4502.    6210.    6270.    6460.    6590.    6890.    6960.    7050.    7110.    7120.    7130.    7227.
   PER Q=    72.0      3.8      4.5      3.1      9.7      1.2      1.5      1.9       .5       .5      1.3
   AREA=  2760.9    135.4    238.6    163.3    451.8     70.4     90.5     90.4     20.1     20.1     84.8
    VEL=     1.2      1.3       .9       .9      1.0       .8       .8      1.0      1.2      1.2       .7

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 6.906

 3265 DIVIDED FLOW

     6.91     3.65  1452.65      .00      .00  1452.71      .06     2.92      .01  1453.50
    4690.       0.     753.    3937.       0.     721.    1880.    1177.     775.  1452.00
     2.66      .00     1.05     2.09     .100     .100     .100     .000  1449.00  4769.25
  .008514     560.     630.     700.        3        0        0      .00  2534.52  7839.45
0
 FLOW DISTRIBUTION FOR SECNO=      6.91          CWSEL=   1452.65

 STA=    4769.    6165.    6350.    6500.    6540.    6582.    6705.    6725.    6745.    6782.    6805.    6911.    7282.
   PER Q=    16.1      6.8     16.5      4.0      5.3     18.2      3.9      3.9      5.5      4.0      8.7      3.2
   AREA=   720.6    211.9    339.0     76.7    100.6    325.4     62.9     62.9     97.9     66.6    193.2    171.8
    VEL=     1.0      1.5      2.3      2.5      2.5      2.6      2.9      2.9      2.6      2.8      2.1       .9
 STA=    7282.    7765.    7839.
   PER Q=     3.1       .9
   AREA=   133.3     38.0
    VEL=     1.1      1.1

 *SECNO 7.020

 265 DIVIDED FLOW

     7.02     4.01  1457.01      .00      .00  1457.03      .02     4.32      .00  1457.50
    4646.       0.     945.    3701.       0.     951.    2804.    1231.     824.  1455.50
     2.83      .00      .99     1.32     .100     .100     .100     .000  1453.00  4751.29
  .004030     570.     600.     790.        6        0        0      .00  3245.34  8288.36
0
 FLOW DISTRIBUTION FOR SECNO=      7.02          CWSEL=   1457.01
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 STA=    4751.    5640.    5795.    6030.    6952.    6988.    7019.    7100.    7204.    7368.    7885.    8182.    8289.
   PER Q=    20.3      4.6      3.0     14.9      4.6      5.1      9.0     11.5     11.8      8.9      3.8      2.4
    AREA=   950.7    194.5    177.3    573.6    108.2    108.6    223.1    286.5    346.7    462.6    224.1     98.5
     VEL=     1.0      1.1       .8      1.2      2.0      2.2      1.9      1.9      1.6       .9       .8      1.2

 *SECNO 7.134
     7.13     2.49  1459.99      .00      .00  1460.02      .03     2.99      .00  1460.50
    3065.       0.    1354.    1711.       0.     995.    1194.    1273.     859.   1459.00
     2.95      .00     1.36     1.43     .100     .100     .100     .000  1457.50  4592.55
  .006345     570.     600.     630.        4        0        0      .00  1732.03  6324.58
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      7.13          CWSEL=   1459.99

 STA=    4593.    5400.    5600.    5858.    6011.    6170.    6288.    6325.
   PER Q=    44.2     15.0     19.3      5.8      8.8      6.5       .4
    AREA=   995.0    297.7    384.0    151.2    196.9    146.1     18.1
     VEL=     1.4      1.5      1.5      1.2      1.4      1.4       .7

 *SECNO 7.262

 3265 DIVIDED FLOW

     7.26     3.77  1463.77      .00      .00  1463.80      .03     3.78      .00  1463.50
    1488.       0.    1372.     116.       1.     903.     124.    1298.     877.   1464.00
     3.08      .26     1.52      .93     .100     .100     .100     .000  1460.00  4902.10
  .004639     630.     680.     630.        3        0        0      .00   639.81  5553.75
0
 FLOW DISTRIBUTION FOR SECNO=      7.26          CWSEL=   1463.77

 STA=    4902.    4910.    5405.    5470.    5554.
   PER Q=     .0     92.2      3.2      4.6
    AREA=    1.0    903.3     50.5     73.8
     VEL=     .3      1.5       .9       .9

 *SECNO 7.410

 3265 DIVIDED FLOW

     7.41     3.73  1467.73      .00      .00  1467.77      .04     3.96      .00  1466.00
    1488.      46.    1401.      41.      45.     883.      71.    1315.     888.   1467.00
     3.22     1.03     1.59      .58     .100     .100     .100     .000  1464.00  4518.12
  .005848     800.     780.     460.        4        0        0      .00   780.49  5303.32
0
 FLOW DISTRIBUTION FOR SECNO=      7.41          CWSEL=   1467.73

 STA=    4618.    4670.    5310.    5503.
   PER Q=     3.1     94.1      2.7
    AREA=    44.9    883.5     70.5
     VEL=     1.0      1.6       .6

 *SECNO 7.520
     7.52     3.14  1471.14      .00      .00  1471.17      .03     3.40      .00  1469.70
    1525.     110.    1415.       0.      93.    1007.       1.    1329.     900.   1471.00
     3.33     1.18     1.41      .20     .100     .100     .100     .000  1468.00  4336.19
  .005828     570.     580.     830.        2        0        0      .00   840.70  5176.88
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      7.52          CWSEL=   1471.14

 STA=    4336.    4385.    4435.    5165.    5177.
   PER Q=     1.4      5.7     92.8       .0
    AREA=    28.0     64.9   1007.2       .9
     VEL=      .8      1.4      1.4       .2

 *SECNO 7.643
      7.64     4.36  1474.36      .00      .00  1474.45      .10     3.26      .02  1472.00
     1525.     372.     847.     306.     355.     266.     265.    1344.     912.   1474.00
      3.41     1.05     3.19     1.16     .090     .050     .090     .000  1470.00  4522.96
   .004442     580.     650.     700.        4        0        0      .00   899.16  5422.12
0
 FLOW DISTRIBUTION FOR SECNO=      7.64          CWSEL=   1474.36

 STA=    4523.    4530.    4570.    4730.    4840.    4885.    4900.    5110.    5180.    5260.    5335.    5382.    5422.
   PER Q=      .0      2.2      8.8      1.4       .6     11.3     55.5       .9      5.0     10.7      2.6       .2
    AREA=     1.2     34.1    136.3     38.7     15.8    128.4    265.8     24.6     80.2    112.6     40.0      7.1
     VEL=      .3      1.0      1.0       .5       .5      1.3      3.2       .5      1.1      1.4      1.0       .3

 *SECNO 7.764

 265 DIVIDED FLOW

      7.76     4.93  1477.43      .00      .00  1477.78      .35     3.25      .08  1476.00
     1525.     249.    1092.     185.     213.     196.     172.    1354.     323.   1476.00
      3.45     1.17     5.56     1.07     .090     .050     .090     .000  1472.50  4500.37
   .006836     580.     600.     610.        2        0        0      .00   673.42  5490.83
0
 FLOW DISTRIBUTION FOR SECNO=      7.76          CWSEL=   1477.43

 STA=    4600.    4765.    4955.    5012.    5243.    5480.    5491.
   PER Q=     1.2     15.2     71.6     11.9       .1       .1
    AREA=    35.7    177.3    196.4    165.9      4.2      2.3
     VEL=      .5      1.3      5.6      1.1       .5       .5

 *SECNO 7.868
      7.87     5.11  1481.11      .00      .00  1481.23      .11     3.42      .02  1480.00
     1525.     518.     653.     354.     394.     172.     224.    1363.     932.   1480.00
      3.52     1.31     3.79     1.58     .090     .050     .090     .000  1476.00  4506.91
   .004954     605.     590.     580.        4        0        0      .00   563.16  5170.06
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      7.87          CWSEL=   1481.11

 STA=    4607.    4665.    4705.    4738.    4825.    4911.    4955.    5025.    5138.    5160.    5170.
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    AREA=     67.3     54.7     53.4     88.3     74.7     55.8    172.3    182.8     35.6      5.6
     VEL=      1.4      1.4      1.6      1.2      1.1      1.4      3.8      1.6      1.6       .8

 *SECNO 7.969
      7.97     2.97  1483.47      .00      .00  1483.55      .08     2.32      .00  1482.00
     1560.      162.     907.     491.     157.     321.     442.    1374.     940.   1482.50
      3.59     1.03     2.82     1.11     .090     .050     .090     .000  1480.50  4731.50
   .003856     460.     530.     600.        4        0        0      .00   762.90  5494.41
0
 FLOW DISTRIBUTION FOR SECNO=      7.97          CWSEL=   1483.47

 STA=    4732.    4795.    4860.    4902.    4925.    5095.    5125.    5155.    5380.    5445.    5465.    5494.
   PER Q=      .4      4.1      3.8      2.1     58.1      2.7      3.7     16.6      4.8      2.5      1.2
    AREA=    14.9     63.1     51.3     28.1    321.5     26.6     44.1    240.8     69.6     29.4     21.6
     VEL=      .4      1.0      1.2      1.2      2.8      1.2      1.3      1.1      1.1      1.3       .8

 *SECNO 8.073
      8.07     2.77  1486.17      .00      .00  1486.31      .14     2.74      .02  1485.00
     1560.       25.     1025.     511.      43.     281.     386.    1384.     949.   1485.00
      3.64      .57     3.65     1.32     .090     .050     .090     .000  1483.40  4768.63
   .007111     530.     550.     510.        4        0        0      .00   753.48  5522.11
0
 FLOW DISTRIBUTION FOR SECNO=      8.07          CWSEL=   1486.17

 STA=    4769.    4785.    4940.    5100.    5305.    5460.    5490.    5520.    5522.
   PER Q=      .0      1.5     65.7     15.9     12.0      3.5      1.4       .0
    AREA=     1.4     41.6    281.0    188.3    142.4     35.1     20.1       .2
     VEL=      .3       .6      3.6      1.3      1.3      1.5      1.1       .3

 *SECNO 8.173

 7265 DIVIDED FLOW

      8.17     3.85  1488.85      .00      .00  1488.93      .08     2.61      .01  1487.50
     1560.      317.     843.     400.     374.     278.     457.    1395.     962.   1487.50
      3.72      .85     3.03      .88     .090     .050     .090     .000  1485.00  4463.91
   .003217     650.     580.     510.        4        0        0      .00  1233.91  5752.03
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.17          CWSEL=   1488.85

 STA=    4464.    4810.    4935.    5050.    5140.    5240.    5380.    5571.    5752.
   PER Q=     11.7      8.7     54.0     10.5      5.4      5.0      3.9       .8
    AREA=   237.9    136.3    277.9    134.2     92.9    101.4     97.2     30.9
     VEL=       .8      1.0      3.0      1.2       .9       .8       .6       .4

 *SECNO 8.299
      8.30     4.47  1491.47      .00      .00  1491.69      .22     2.72      .04  1489.50
     1560.       91.     1349.     120.      62.     336.      84.    1406.     972.   1491.00
      3.77     1.47     4.02     1.42     .090     .050     .090     .000  1487.00  4860.00
   .006442     730.     630.     470.        3        0        0      .00   318.87  5179.67
0
 FLOW DISTRIBUTION FOR SECNO=      8.30          CWSEL=   1491.47

 STA=    4861.    4905.    4922.    5075.    5115.    5145.    5180.
   PER Q=      2.3      3.6     86.5      4.8      2.9       .0
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    VEL=     1.1      1.9      4.0      1.5      1.4      .3

 *SECNO 8.421
     8.42     5.16  1494.66      .00      .00  1494.83      .17     3.13      .01  1494.00
    1560.     504.     956.     100.     459.     234.     117.    1416.     979.   1494.00
     3.83     1.10     4.09      .85     .090     .050     .090     .000  1489.50  4531.88
  .003854     660.     650.     460.        4        0        0      .00   673.04  5204.92
0
 FLOW DISTRIBUTION FOR SECNO=      8.42          CWSEL=   1494.66

 STA=    4532.    4575.    4760.    4940.    4970.    5040.    5110.    5120.    5135.    5140.    5190.    5200.
   PER Q=      .5     15.6     15.2      1.0     61.3      2.3       .8      1.3       .2      1.7       .2
    AREA=    14.3    215.2    209.4     19.9    233.7     46.4     11.6     17.4      3.3     33.2      5.0
     VEL=      .5      1.1      1.1       .8      4.1       .8      1.1      1.1       .8       .8       .5

 *SECNO 8.535
     8.53     4.24  1497.24      .00      .00  1497.39      .15     2.56      .00  1496.00
    1595.     199.    1352.      44.     146.     407.      52.    1426.     987.   1496.00
     3.88     1.37     3.32      .85     .090     .050     .090     .000  1493.00  4723.24
  .004391     720.     600.     480.        3        0        0      .00   416.68  5139.92
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        GLOB     GCH      GROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.53          CWSEL=   1497.24

 STA=    4723.    4810.    4825.    4840.    4860.    5045.    5110.    5140.
   PER Q=     2.7      3.9      3.9      2.0     84.8      2.7       .1
    AREA=    53.8     33.6     33.6     24.8    406.8     49.1      3.6
     VEL=      .8      1.9      1.9      1.3      3.3       .9       .3

 *SECNO 8.639

 3265 DIVIDED FLOW

     8.64     4.85  1499.85      .00      .00  1500.08      .23     2.67      .02  1498.00
    1595.     682.     913.       0.     449.     187.       0.    1433.     992.   1500.00
     3.92     1.52     4.87      .00     .090     .050     .090     .000  1495.00  4518.70
  .006428     420.     540.     550.        3        0        0      .00   467.52  5043.52
0
 FLOW DISTRIBUTION FOR SECNO=      8.64          CWSEL=   1499.85

 STA=    4519.    4560.    4760.    4904.    4980.    5045.
   PER Q=     2.5     32.7      6.2      1.3     57.2
    AREA=    34.1    300.4     97.5     17.1    187.3
     VEL=     1.2      1.7      1.0      1.3      4.9

 *SECNO 8.736

 3265 DIVIDED FLOW

     8.74     5.59  1502.59      .00      .00  1502.81      .22     2.73      .00  1500.00
    1595.     276.    1278.      41.     296.     304.      36.    1440.     997.   1501.00
     3.96      .93     4.21     1.14     .090     .050     .090     .000  1497.00  4459.68
  .004738     470.     510.     520.        2        0        0      .00   585.04  5120.32
0
 FLOW DISTRIBUTION FOR SECNO=      8.74          CWSEL=   1502.59

 STA=    4460.    4520.    4700.    4925.    4970.    5000.    5120.
```

```
   PER Q=     3.8      4.6      5.2      3.7     80.1      2.6
    AREA=    66.6     83.2     90.3     50.3    303.7     35.7
     VEL=      .9       .8       .9      1.2      4.2      1.1

 *SECNO 8.851
      8.85     5.48  1505.48      .00      .00  1505.68      .19     2.86      .00  1504.50
    1595.      219.     995.     381.     128.     230.     273.    1448.    1004.   1504.00
      4.01     1.71     4.33     1.36     .090     .050     .090     .000  1500.00  4043.04
   .005049     450.     610.     610.        3        0        0      .00   410.20  5254.04
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      8.85          CWSEL=   1505.48

 STA=    4844.    4870.    4882.    4890.    4910.    4935.    5012.    5168.    5175.    5190.    5230.    5254.
   PER Q=      .6      1.2      2.6      6.7      2.6     62.4     18.6      1.4      1.4      2.4       .2
    AREA=    12.8     14.8     19.8     49.6     30.8    229.8    204.4     17.0     17.0     35.2      5.8
     VEL=      .7      1.3      2.1      2.1      1.3      4.3      1.5      1.3      1.3      1.1       .5

 *SECNO 8.950
      8.95     5.81  1508.01      .00      .00  1508.23      .22     2.55      .01  1506.00
    1595.       29.     1216.     350.      27.     287.     292.    1456.    1010.   1506.00
      4.05     1.06     4.24     1.20     .090     .050     .090     .000  1502.20  4729.29
   .004726     510.     520.     530.        2        0        0      .00   605.95  5335.24

 FLOW DISTRIBUTION FOR SECNO=      8.95          CWSEL=   1508.01

 STA=    4729.    4930.    5025.    5075.    5100.    5335.
   PER Q=      1.8     76.2      9.1      3.3      9.5
    AREA=    27.2    286.5     88.0     36.5    167.1
     VEL=      1.1      4.2      1.7      1.5       .9

 *SECNO 9.043
      9.04     6.32  1510.02      .00      .00  1510.21      .18     1.97      .00  1508.00
    1595.       92.     1254.     249.      93.     327.     239.    1463.    1015.   1508.80
      4.10      .99     3.83     1.04     .090     .050     .090     .000  1503.70  4479.44
   .003479     480.     490.     490.        2        0        0      .00   421.64  5301.09
0
 FLOW DISTRIBUTION FOR SECNO=      9.04          CWSEL=   1510.02

 STA=    4879.    4970.    5070.    5170.    5300.
   PER Q=      5.8     78.6     10.4      5.2
    AREA=    32.5    327.0    137.8    101.1
     VEL=      1.0      3.8      1.2       .8

 *SECNO 9.113
      9.11     6.40  1511.40      .00      .00  1511.61      .21     1.40      .01  1510.00
    1595.      164.     1173.     258.     101.     280.     231.    1468.    1019.   1511.00
      4.13     1.63     4.19     1.12     .090     .050     .090     .000  1505.00  4908.97
   .004128     380.     370.     360.        2        0        0      .00   377.67  5286.64

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
```

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    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      9.11          CWSEL=   1511.40

 STA=    4909.    4930.    4960.    4970.    5055.    5100.    5120.    5185.    5287.
  PER Q=      .8      7.2      2.4     73.5      2.5      2.3      7.6      3.7
   AREA=    14.7     64.6     21.5    279.7     40.6     28.0     91.1     71.3
    VEL=      .8      1.8      1.8      4.2      1.0      1.3      1.3       .8

 *SECNO 9.211
     9.21     6.72  1513.72      .00      .00  1514.17      .45     2.49      .07  1510.00
    1665.     432.    1186.      47.     275.     189.      42.    1475.    1023.   1512.00
     4.16     1.57     6.29     1.12     .090     .050     .090     .000  1507.00  4737.39
  .005647     510.     520.     505.        2        0        0      .00   339.85  5077.24
0
 FLOW DISTRIBUTION FOR SECNO=      9.21          CWSEL=   1513.72

 STA=    4737.    4835.    4905.    4939.    4982.    4990.    5029.    5077.
  PER Q=      1.3      7.3      6.3      7.9      3.1     71.3      2.8
   AREA=    35.3     83.6     58.6     74.1     21.8    188.7     41.6
    VEL=      .6      1.4      1.8      1.8      2.4      6.3      1.1

 *SECNO 9.317
     9.32     6.56  1516.56      .00      .00  1516.83      .27     2.64      .02  1514.00
    1665.     164.    1399.     102.     118.     312.      84.    1481.    1027.   1514.00
     4.19     1.39     4.48     1.22     .090     .050     .090     .000  1510.00  4096.54
  .003998     560.     560.     560.        2        0        0      .00   266.24  5162.78
0
 FLOW DISTRIBUTION FOR SECNO=      9.32          CWSEL=   1516.56

 STA=    4897.    4905.    4979.    5062.    5105.    5163.
  PER Q=      .1      9.8     84.0      5.7      .4
   AREA=     2.4    115.7    312.0     67.2     16.3
    VEL=      .4      1.4      4.5      1.4      .4

 *SECNO 9.402
     9.40     6.74  1519.24      .00      .00  1519.81      .57     2.89      .09  1518.00
    1665.     118.    1459.      88.      92.     226.      51.    1486.    1030.   1518.00
     4.22     1.28     6.44     1.73     .090     .050     .090     .000  1512.50  4845.57
  .008250     500.     520.     545.        1        0        0      .00   246.20  5091.77
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      9.40          CWSEL=   1519.24

 STA=    4846.    4920.    4985.    5045.    5060.    5070.    5092.
  PER Q=      1.3      5.8     87.6      2.6      1.8       .9
   AREA=    27.7     64.6    226.4     22.4     14.9     13.5
    VEL=      .8      1.5      6.4      2.0      2.0      1.1

 *SECNO 9.473
     9.47     5.47  1521.97      .00      .00  1522.25      .28     2.41      .03  1520.00
    1665.     248.    1017.     401.     208.     191.     245.    1491.    1033.   1520.00
     4.25     1.19     5.31     1.64     .090     .050     .090     .000  1515.50  4770.48
  .005278     370.     370.     370.        2        0        0      .00   423.46  5198.94
0
 FLOW DISTRIBUTION FOR SECNO=      9.47          CWSEL=   1521.97
```

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 STA=    4770.    4981.    5030.    5109.    5199.
   PER Q=     14.9     61.1     17.7      6.4
    AREA=    208.1    191.4    156.2     88.9
     VEL=      1.2      5.3      1.9      1.2

 SECNO 9.567
      9.57     7.78  1523.78      .00      .00  1524.04      .26     1.79      .00  1522.00
     1700.     124.     1336.     240.     133.     293.     219.    1498.    1037.   1522.00
      4.28      .93     4.55     1.10     .090     .050     .090     .000  1516.00  4845.16
   .002618     500.     500.     490.        3        0        0      .00   350.67  5195.83
0
 FLOW DISTRIBUTION FOR SECNO=      9.57          CWSEL=   1523.78

 STA=    4845.    4890.    4980.    5035.    5075.    5119.    5196.
   PER Q=       .5      6.8     78.6      5.2      5.0      3.2
    AREA=     17.6    115.8    293.3     71.5     78.6     68.6
     VEL=       .5      1.0      4.6      1.2      1.2       .8

 *SECNO 9.649
      9.65     5.57  1525.07      .00      .00  1525.28      .21     1.23      .00  1521.50
     1700.     565.     1106.     29.     236.     262.     47.    1504.    1040.   1524.00
      4.32     2.39     4.21      .61     .090     .050     .090     .000  1519.50  4992.38
   .003155     440.     430.     400.        2        0        0      .00   230.68  5123.06
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      9.65          CWSEL=   1525.07

 STA=    4892.    4918.    4925.    4930.    4938.    4945.    4970.    5033.    5123.
   PER Q=       .5      1.2      2.7      7.1      6.2     15.6     65.1      1.7
    AREA=     13.7     14.5     20.3     42.5     37.2    107.9    262.4     47.0
     VEL=       .6      1.5      2.2      2.8      2.8      2.5      4.2       .6

 *SECNO 9.726

 3301 HV CHANGED MORE THAN HVINS

      9.73     6.00  1527.00  1526.84      .00  1527.76      .76     2.32      .16  1526.00
     1700.     252.     1448.      0.     145.     192.      0.    1508.    1042.   1528.00
      4.33     1.73     7.54      .00     .090     .050     .090     .000  1521.00  4803.38
   .012115     450.     410.     340.        6        8        0      .00   225.14  5028.52
0
 FLOW DISTRIBUTION FOR SECNO=      9.73          CWSEL=   1527.00

 STA=    4803.    4822.    4840.    4850.    4890.    4925.    4955.    4975.    5032.
   PER Q=       .6      2.8      1.6      4.3      3.9      1.0       .7     85.2
    AREA=      9.4     22.6     12.6     40.3     35.2     15.2     10.1    192.1
     VEL=      1.1      2.1      2.1      1.8      1.8      1.2      1.2      7.5

 *SECNO 9.791
      9.79     7.00  1529.58      .00      .00  1529.96      .29     2.05      .05  1526.00
     1700.     424.     1276.      0.     334.     264.      0.    1512.    1044.   1530.00
      4.36     1.27     4.84      .00     .090     .050     .090     .000  1522.50  4700.32
   .003694     310.     340.     360.        1        0        0      .00   339.57  5047.89
0
 FLOW DISTRIBUTION FOR SECNO=      9.79          CWSEL=   1529.58
```

```
 STA=    4700.    4761.    4831.    4920.    4950.    4980.    4989.    5050.
   PER Q=      .4      8.7      4.7      4.8      3.8      2.5     75.0
    AREA=    15.2    140.3     53.0     54.9     47.4     23.2    263.5
     VEL=      .4      1.1      1.5      1.5      1.4      1.9      4.8

 *SECNO 9.899
     9.90     7.04  1532.04      .00      .00  1532.37      .33     2.50      .02  1530.00
    1700.      53.     1227.     420.      45.     231.     238.    1519.    1048.  1531.50
     4.39     1.18     5.32     1.77     .090     .050     .090     .000  1525.00  4062.83
  .005486     455.     570.     620.        3        0        0      .00   357.90  5220.72
0
1
 05/05/88    15:24:47                                                                PAGE  111

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=      9.90          CWSEL=   1532.04

 STA=    4863.    4975.    5035.    5065.    5085.    5175.    5220.
   PER Q=      3.1     72.2      6.7      9.2      5.4      3.5
    AREA=    44.6    230.7     56.2     60.9     73.7     46.9
     VEL=      1.2      5.3      2.0      2.6      1.2      1.3

 *SECNO 9.980
     9.99     6.83  1534.33      .00      .00  1534.62      .29     2.26      .00  1532.00
    1735.     519.     1171.     46.     350.     286.     61.    1524.    1152.  1534.00
     4.42     1.43     5.18     .74     .090     .050     .090     .000  1527.50  4696.70
  .005304     500.     430.     250.        3        0        0      .00   478.24  5174.94
0
 FLOW DISTRIBUTION FOR SECNO=      9.90          CWSEL=   1534.33

 STA=    4697.    4700.    4825.    4900.    4980.    5040.    5100.    5125.    5170.    5175.
   PER Q=      .0      6.3      8.4     15.2     67.5      .7      .7     1.3      .0
    AREA=      .5    103.7     99.7    146.4    226.0     19.8    14.5    26.1      .8
     VEL=      .4      1.1      1.5      1.8      5.2      .6      .8      .8      .4

 *SECNO 10.020
    10.02     6.86  1535.36      .00      .00  1535.80      .44     1.14      .05  1534.00
    1735.     400.     1319.     16.     251.     217.     17.    1527.    1054.  1534.00
     4.43     1.59     6.07     .98     .090     .050     .090     .000  1528.50  4798.21
  .005949     182.     210.     230.        2        0        0      .00   255.25  5053.46
0
 FLOW DISTRIBUTION FOR SECNO=     10.02          CWSEL=   1535.36

 STA=    4798.    4805.    4820.    4840.    4875.    4932.    4950.    4980.    5029.    5053.
   PER Q=      .3      2.4      3.2      4.3      7.0      2.2      3.7     76.0      .9
    AREA=     4.6     24.1     32.2     47.6     77.5     24.5     40.8    217.1     16.6
     VEL=     1.0      1.7      1.7      1.6      1.6      1.6      1.6      6.1      1.0

 *SECNO 10.077
    10.08     7.19  1536.69      .00      .00  1536.98      .29     1.16      .02  1534.00
    1735.     301.     1385.     48.     235.     289.     33.    1530.    1086.  1532.00
     4.45     1.28     4.79     1.45     .090     .050     .090     .000  1529.50  4926.06
  .002614     340.     300.     260.        2        0        0      .00   210.41  5036.48
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
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```
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


 FLOW DISTRIBUTION FOR SECNO=     10.08          CWSEL=   1536.69

 STA=    4826.    4845.    4945.    4967.    5018.    5022.    5032.    5036.
   PER Q=      .2      11.6      5.6     79.9      1.6      1.1       .0
    AREA=     6.5     168.9     59.1    289.1     14.8     16.9      1.5
     VEL=      .4       1.2      1.6      4.8      1.9      1.2       .4

 *SECNO 10.137
    10.14     6.34  1537.84      .00      .00  1538.52      .69     1.42      .12  1540.00
    1735.       0.    1379.     356.       0.     186.     186.    1534.    1057.   1536.00
     4.47      .00     7.40     1.92     .090     .050     .090     .000  1531.50  4382.32
   .009167    220.     320.     400.        2        0        0      .00   183.45  5170.77
0
 FLOW DISTRIBUTION FOR SECNO=     10.14          CWSEL=   1537.84

 STA=    4982.    5025.    5060.    5100.    5122.    5171.
   PER Q=     79.5      5.2      5.9      5.5      3.9
    AREA=    186.4     46.9     53.6     40.5     44.9
     VEL=      7.4      1.9      1.9      2.4      1.5

 *SECNO 10.179
    10.18     6.79  1539.29      .00      .00  1539.52      .24      .95      .04  1536.00
    1735.     122.    1417.     196.      85.     308.     172.    1536.    1058.   1536.00
     4.49     1.43     4.32     1.14     .090     .050     .090     .000  1532.50  4916.05
   .002711    270.     220.     140.        2        0        0      .00   243.68  5159.73
0
 FLOW DISTRIBUTION FOR SECNO=     10.18          CWSEL=   1539.28

 STA=    4916.    4925.    4960.    5030.    5040.    5065.    5080.    5115.    5160.
   PER Q=      .2      6.8     81.7      1.9      1.9      1.9      4.9      1.1
    AREA=     5.7     79.7    328.2     22.8     32.0     26.7     62.2     28.6
     VEL=      .6      1.5      4.3      1.5      1.0      1.3      1.3       .6

 *SECNO 10.283
    10.28     6.72  1541.22      .00      .00  1541.62      .40     2.06      .05  1540.00
    1735.     220.    1342.     172.     171.     235.      99.    1543.    1061.   1540.00
     4.52     1.29     5.72     1.74     .090     .050     .090     .000  1534.50  4785.54
   .005527    500.     550.     580.        3        0        0      .00   303.63  5089.17
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=     10.28          CWSEL=   1541.22

 STA=    4786.    4810.    4830.    4850.    4938.    4970.    5025.    5045.    5065.    5080.    5089.
   PER Q=      .8      3.5      3.5      3.6      1.3     77.4      2.0      4.4      3.3       .3
    AREA=    15.0     34.5     34.5     63.6     23.1    234.5     24.9     39.5     29.6      5.6
     VEL=      .9      1.8      1.8      1.0      1.0      5.7      1.4      1.9      1.9       .9

 *SECNO 10.382
    10.38     6.77  1543.27      .00      .00  1543.49      .22     1.84      .02  1542.00
    1735.      15.    1537.     183.      24.     392.     113.    1549.    1064.   1540.00
     4.56      .61     3.92     1.62     .090     .050     .090     .000  1536.50  4936.86
   .002479    530.     520.     500.        2        0        0      .00   194.46  5131.32
```

FLOW DISTRIBUTION FOR SECNO= 10.38 CWSEL= 1543.27

STA=	4937.	4975.	5065.	5072.	5080.	5090.	5131.
PER Q=	.9	88.6	3.6	4.2	1.8	.9	
AREA=	24.2	391.9	29.9	34.2	22.7	26.3	
VEL=	.6	3.9	2.1	2.1	1.4	.6	

*SECNO 10.444

3265 DIVIDED FLOW

10.44	4.19	1544.19	.00	.00	1544.30	.12	.81	.01	1544.00
1775.	0.	1775.	0.	1.	652.	1.	1553.	1266.	1546.00
4.59	.17	2.72	.17	.030	.050	.030	.000	1340.00	4361.75
.002428	360.	330.	310.	2	0	0	.00	279.28	5254.58

0

FLOW DISTRIBUTION FOR SECNO= 10.44 CWSEL= 1544.19

STA=	4862.	4870.	5145.	5255.
PER Q=	.0	100.0	.0	
AREA=	.8	651.9	1.3	
VEL=	.2	2.7	.2	

1

PROFILES:

#1. 100 YR EVENT WITH NO ENCROACHMENT

#2. 100 YR EVENT WITH FW ENCROACHMENT

#3. 50 YR EVENT

#4. 10 YR EVENT

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15:35:50

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

TRILBY WASH (CAP TO MCMI

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
2.737	11688.00	1346.95	3616.28	5191.45	.00	1575.17	.00	9.45	1337.50	16.97	4.87
2.737	11688.00	1347.57	4500.00	5085.00	.00	585.00	.00	10.07	1337.50	23.97	5.61
2.737	8999.00	1346.20	3750.50	5188.26	.00	1437.76	.00	8.70	1337.50	17.03	4.66
2.737	4773.00	1344.55	4231.76	5181.23	.00	949.52	.00	7.05	1337.50	17.24	3.86
2.811	11688.00	1347.70	4244.97	5273.53	.75	1028.63	390.00	8.70	1339.00	16.59	4.61
2.811	11688.00	1348.55	4499.14	5127.37	.98	628.22	390.00	9.55	1339.00	17.32	5.13
2.811	8999.00	1346.94	4257.52	5267.50	.74	1029.98	390.00	7.94	1339.00	15.79	4.19
2.811	4773.00	1345.30	4310.59	5256.49	.75	945.90	390.00	6.30	1339.00	16.03	3.50
2.890	11688.00	1348.37	4286.80	5353.12	.67	1266.32	420.00	6.87	1341.50	16.73	3.94
2.890	11688.00	1349.27	4506.75	5384.72	.72	797.98	420.00	7.77	1341.50	17.66	4.46
2.890	8999.00	1347.60	4307.24	5545.83	.66	1238.65	420.00	6.10	1341.50	17.53	3.67
2.890	4773.00	1346.04	4353.04	5531.35	.74	1177.53	420.00	4.54	1341.50	22.47	3.26
3.023	11688.00	1349.92	4177.25	5623.43	1.55	1443.24	700.00	7.42	1342.50	35.68	6.00
3.023	11688.00	1350.80	4455.00	5455.00	1.53	1000.00	700.00	8.30	1342.50	31.23	6.11
3.023	8999.00	1349.23	4196.28	5618.60	1.63	1787.37	700.00	6.73	1342.50	28.03	5.26

3.023	4773.00	1347.91	4346.37	5586.95	[illegible].67	732.70	700.00	5.41	1342.50	36.83	5.04
3.199	11688.00	1353.95	3900.51	5539.19	4.03	1638.68	930.00	7.95	1346.00	61.21	8.51
3.199	11688.00	1354.33	4305.00	5450.00	3.52	1145.00	930.00	8.33	1346.00	53.23	8.22
3.199	8999.00	1353.46	3951.45	5531.75	4.23	1580.30	930.00	7.46	1346.00	62.33	8.19
3.199	4773.00	1352.34	4085.48	5515.03	4.43	1293.14	930.00	6.34	1346.00	73.00	7.89
3.360	11688.00	1358.30	3788.18	6135.45	4.35	2347.28	850.00	7.80	1350.50	39.93	6.14
3.360	11688.00	1358.58	4369.00	5620.00	4.26	1251.00	850.00	8.08	1350.50	44.82	6.71
3.360	8999.00	1357.84	3808.78	5977.60	4.39	2168.83	850.00	7.34	1350.50	39.59	5.80
3.360	4773.00	1356.94	3859.25	5560.94	4.60	1701.69	850.00	6.44	1350.50	35.60	4.88
3.521	11688.00	1362.96	4112.85	6141.25	4.66	2028.40	850.00	5.96	1357.00	85.76	7.84
3.521	11688.00	1363.41	4335.00	5650.00	4.82	1265.00	850.00	6.41	1357.00	78.46	7.96
3.521	8999.00	1362.56	4115.82	6109.57	4.72	1993.75	850.00	5.56	1357.00	89.69	7.57
3.521	4773.00	1361.72	4131.11	5759.43	4.78	1628.32	850.00	4.72	1357.00	112.79	7.39

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SECND	D	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
3.636	11688.00	1366.76	3598.99	6763.71	3.81	3164.72	610.00	5.76	1361.00	41.81	5.48
3.636	11688.00	1367.57	4490.00	5740.00	4.16	1260.00	610.00	6.57	1361.00	56.48	6.97
3.636	8999.00	1366.42	3608.31	6719.83	3.86	3111.57	610.00	5.42	1361.00	41.29	5.11
3.636	4773.00	1365.77	3646.79	6578.72	4.05	2741.54	610.00	4.77	1361.00	37.78	4.38
3.797	11688.00	1371.47	4058.48	6615.77	4.70	2557.29	850.00	4.47	1367.00	80.15	2.92
3.797	11688.00	1372.26	4495.00	5825.00	4.69	1330.00	850.00	5.26	1367.00	51.69	2.83
3.797	8999.00	1371.16	4077.83	6545.23	4.74	2467.39	850.00	4.16	1367.00	82.98	2.70
3.797	4773.00	1370.51	4117.68	6328.43	4.74	1841.00	850.00	3.51	1367.00	94.61	2.24
3.958	11688.00	1376.51	4464.64	6649.84	5.05	2185.20	850.00	4.51	1372.00	54.55	2.66
3.958	11688.00	1377.02	4555.00	5735.00	4.76	1180.00	850.00	5.02	1372.00	63.26	3.28
3.958	8999.00	1376.19	4471.03	6563.56	5.04	2092.53	850.00	4.19	1372.00	51.99	2.39
3.958	4773.00	1375.57	4483.66	6397.42	5.05	1913.76	850.00	3.57	1372.00	46.89	1.83
4.053	11688.00	1379.31	4370.37	6473.50	2.79	2103.13	500.00	4.31	1375.00	51.00	2.70
4.053	11688.00	1379.94	4480.00	5645.00	2.92	1165.00	500.00	4.94	1375.00	50.92	3.07
4.053	8999.00	1378.93	4375.99	6410.05	2.73	2034.06	500.00	3.93	1375.00	51.88	2.48
4.053	4773.00	1378.20	4387.05	6232.36	2.63	1845.31	500.00	3.20	1375.00	55.96	2.05
4.157	11625.00	1381.89	4091.81	6214.93	2.58	2123.18	550.00	6.39	1375.50	43.27	2.64
4.157	11625.00	1382.72	4410.00	5373.66	2.78	963.66	550.00	7.22	1375.50	50.32	3.31
4.157	8920.00	1381.52	4098.34	6160.93	2.59	2062.50	550.00	6.02	1375.50	42.77	2.41
4.157	4730.00	1380.81	4110.61	6057.41	2.61	1946.80	550.00	5.31	1375.50	40.96	1.95
4.275	11625.00	1384.50	4201.19	6294.50	2.61	1938.62	620.00	4.50	1380.00	40.61	4.45
4.275	11625.00	1385.52	4713.77	5697.99	2.80	984.22	620.00	5.52	1380.00	40.04	5.28
4.275	8920.00	1384.10	4204.26	6254.63	2.58	1929.35	620.00	4.10	1380.00	40.34	4.03
4.275	4730.00	1383.31	4213.53	6132.35	2.50	1778.45	620.00	3.31	1380.00	39.68	3.36
4.405	11625.00	1387.71	4762.13	6363.63	3.21	1591.55	690.00	5.71	1382.00	59.31	6.25
4.405	11625.00	1388.50	4880.00	5790.00	2.98	910.00	690.00	6.50	1382.00	50.70	6.42
4.405	8920.00	1387.29	4785.36	6323.83	3.19	1538.49	690.00	5.29	1382.00	58.88	5.53
4.405	4730.00	1386.44	4791.71	6245.62	3.13	1453.91	690.00	4.44	1382.00	57.97	5.06
4.539	11625.00	1391.38	4663.72	6622.14	3.68	1752.42	705.00	5.88	1385.50	46.51	5.70
4.539	11625.00	1391.88	4892.00	5810.00	2.38	918.00	705.00	6.38	1385.50	45.68	5.99
4.539	8920.00	1390.95	4876.06	6542.93	3.66	1666.13	705.00	5.45	1385.50	46.28	5.32
4.539	4730.00	1390.08	4890.81	6388.17	3.64	1497.36	705.00	4.58	1385.50	45.55	4.54
4.679	11625.00	1394.35	4295.54	6116.32	2.96	1820.78	740.00	9.35	1385.00	34.93	5.15
4.679	11625.00	1394.90	4546.00	5660.00	2.02	1114.00	740.00	9.63	1385.28	36.89	5.67
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.679	4730.00	1392.75	4419.84	5239.00	2.68	799.47	740.00	7.75	1385.00	28.12	3.58
4.810	11625.00	1397.33	4088.32	5895.59	2.99	1807.27	690.00	5.83	1391.50	57.48	5.79
4.810	11625.00	1397.96	4381.00	5550.00	3.05	1169.00	690.00	6.46	1391.50	58.78	6.43
4.810	8920.00	1396.86	4090.69	5844.37	3.01	1753.69	690.00	5.36	1391.50	61.63	5.53
4.810	4730.00	1395.61	4101.82	5196.10	2.86	785.70	690.00	4.11	1391.50	75.90	5.65

SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
4.974	11625.00	1401.75	4179.53	5937.01	4.41	1757.48	870.00	6.75	1395.00	49.74	5.90
4.974	11625.00	1402.22	4400.00	5600.00	4.27	1200.00	870.00	7.22	1395.00	42.52	5.82
4.974	8920.00	1401.33	4182.03	5815.52	4.46	1633.49	870.00	6.33	1395.00	46.82	5.39
4.974	4730.00	1400.42	4187.47	5497.40	4.81	1310.01	870.00	5.42	1395.00	41.81	4.35
5.099	11625.00	1404.80	3710.76	5750.30	3.06	2039.34	660.00	6.90	1398.00	36.75	2.39
5.099	11625.00	1405.24	4260.00	5540.00	3.02	1280.00	660.00	7.24	1398.00	43.62	2.95
5.099	8920.00	1404.33	3714.99	5739.03	3.00	2024.04	660.00	6.33	1398.00	38.10	2.24
5.099	4730.00	1403.39	3732.38	5436.38	2.97	1660.09	660.00	5.39	1398.00	43.49	2.03
5.217	11625.00	1407.46	3866.58	5600.70	2.66	1734.12	620.00	6.46	1401.00	52.90	3.31
5.217	11625.00	1408.29	4240.00	5500.00	2.05	1160.00	620.00	7.29	1401.00	57.27	3.45
5.217	8920.00	1407.06	3887.21	5511.99	2.72	1624.78	620.00	6.06	1401.00	53.13	3.14
5.217	4730.00	1406.15	3932.60	5461.66	2.76	1034.10	620.00	5.15	1401.00	47.11	2.98
5.346	11625.00	1411.56	4336.64	5828.10	4.10	1491.46	680.00	5.56	1406.00	72.70	5.53
5.346	11625.00	1412.09	4640.00	5500.00	3.79	860.00	680.00	6.09	1406.00	57.65	5.45
5.346	8920.00	1411.14	4357.48	5670.27	4.08	1302.78	680.00	5.14	1406.00	71.00	4.98
5.346	4730.00	1410.17	4427.87	5343.67	4.02	911.80	680.00	4.17	1406.00	78.50	3.94
5.490	11625.00	1416.04	4331.77	5875.47	4.48	1543.70	760.00	9.04	1407.00	51.41	8.20
5.490	11625.00	1416.34	4680.00	5490.00	4.25	810.00	760.00	9.34	1407.00	60.39	9.17
5.490	8920.00	1415.52	4350.26	5814.09	4.38	1453.82	760.00	8.52	1407.00	51.10	7.84
5.490	4730.00	1414.44	4505.16	5697.54	4.27	1048.32	760.00	7.44	1407.00	45.51	6.59
5.544	11625.00	1417.54	4376.34	5965.25	1.50	1444.89	290.00	9.54	1408.00	32.23	5.38
5.544	11625.00	1418.11	4745.00	5595.00	1.77	850.00	290.00	10.11	1408.00	26.87	5.03
5.544	8920.00	1417.00	4429.52	5925.36	1.48	1245.16	290.00	9.00	1408.00	29.73	5.05
5.544	4730.00	1415.79	4663.75	5730.88	1.35	890.90	290.00	7.79	1408.00	25.03	4.17
5.579	11560.00	1418.00	4579.93	5079.01	.46	291.09	190.00	9.00	1409.00	61.49	8.65
5.579	11560.00	1418.44	4675.00	5127.55	.33	250.57	190.00	9.44	1409.00	57.00	8.62
5.579	8845.00	1417.48	4582.59	5077.58	.48	279.73	190.00	8.48	1409.00	46.13	7.22
5.579	4690.00	1416.22	4588.92	5074.10	.42	252.21	190.00	7.22	1409.00	25.29	4.82
5.645	11560.00	1420.12	4370.35	5829.94	2.13	1459.59	350.00	9.12	1411.00	21.82	4.46
5.645	11560.00	1420.56	4515.00	5415.00	2.12	900.00	350.00	9.56	1411.00	20.95	4.67
5.645	8845.00	1419.24	4442.94	5753.92	1.76	1350.98	350.00	8.24	1411.00	25.06	4.38
5.645	4690.00	1417.45	4450.99	5390.88	1.23	798.90	350.00	6.45	1411.00	39.90	4.13
5.717	11560.00	1421.61	4361.63	5810.49	1.48	1378.99	410.00	8.61	1413.00	88.31	3.96
5.717	11560.00	1421.96	4442.00	5455.00	1.40	1013.00	410.00	8.96	1413.00	69.71	3.69
5.717	8845.00	1421.02	4371.60	5805.21	1.78	1296.36	410.00	8.02	1413.00	104.46	3.56
5.717	4690.00	1419.94	4395.55	5419.82	2.49	767.72	410.00	6.94	1413.00	112.94	4.08
5.777	11560.00	1423.78	4196.60	5976.91	2.17	1692.27	320.00	6.78	1417.00	54.37	5.23
5.777	11560.00	1423.92	4350.00	5430.00	1.96	1000.00	320.00	6.92	1417.00	57.99	5.24
5.777	8845.00	1423.36	4209.31	5740.35	2.33	1531.03	320.00	6.36	1417.00	53.02	4.77
5.777	4690.00	1422.46	4236.16	5618.04	2.52	1353.63	320.00	5.46	1417.00	54.55	3.95

SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
5.840	11560.00	1425.88	4189.03	6017.93	2.10	1842.70	330.00	6.39	1419.50	62.12	2.89
5.840	11560.00	1426.14	4390.00	5525.00	2.22	1135.00	350.00	6.64	1419.50	63.52	3.13
5.840	8845.00	1425.44	4165.61	6007.72	2.09	1705.51	350.00	5.94	1419.50	64.18	2.65
5.840	4690.00	1424.64	4271.99	5762.38	2.18	1490.32	350.00	5.14	1419.50	69.59	2.14
5.961	11560.00	1429.26	4088.05	5840.49	3.38	1752.43	640.00	3.96	1425.30	45.37	3.05
5.961	11560.00	1429.61	4500.00	5665.00	3.47	1165.00	640.00	4.31	1425.30	47.33	3.36
5.961	8845.00	1428.88	4189.62	5825.36	3.44	1715.74	640.00	3.58	1425.30	45.57	2.76
5.961	4690.00	1428.20	4148.75	5797.90	3.55	1649.15	640.00	2.90	1425.30	45.17	2.18
6.082	11560.00	1432.94	3570.25	6014.45	3.68	2436.03	640.00	3.94	1429.00	76.59	2.62
6.082	11560.00	1433.62	4905.00	5695.00	4.01	1190.00	640.00	4.62	1429.00	86.19	3.25
6.082	8845.00	1432.60	3599.88	5954.85	3.72	2306.27	640.00	3.60	1429.00	78.36	2.41
6.082	4690.00	1431.95	3773.93	5849.52	3.75	1910.25	640.00	2.95	1429.00	82.34	1.98
6.200	11560.00	1437.05	4384.59	6104.86	4.11	1720.27	490.00	3.55	1433.50	97.94	2.82
6.200	11560.00	1437.42	4420.00	5890.00	3.80	1460.00	490.00	3.92	1433.50	67.93	2.58
6.200	8845.00	1436.69	4385.76	6059.53	4.09	1673.77	490.00	3.19	1433.50	94.40	2.52
6.200	4690.00	1436.01	4287.99	5970.33	4.06	1582.34	490.00	2.51	1433.50	88.14	1.92
6.293	11560.00	1440.16	4193.35	6274.10	3.11	2080.74	490.00	3.66	1436.50	44.76	2.05
6.293	11560.00	1440.34	4265.00	5820.00	2.92	1555.00	490.00	3.84	1436.50	51.85	2.32
6.293	8845.00	1439.73	4199.52	6248.67	3.04	2049.15	490.00	3.23	1436.50	44.41	1.85
6.293	4690.00	1438.95	4213.40	6183.27	2.95	1969.87	490.00	2.45	1436.50	44.27	1.45
6.395	11560.00	1442.70	3763.64	6506.36	2.54	2742.71	540.00	3.70	1439.00	50.70	1.92
6.395	11560.00	1443.13	4150.00	5870.00	2.79	1720.00	540.00	4.13	1439.00	51.11	2.22
6.395	8845.00	1442.32	4088.35	6476.10	2.59	2387.76	540.00	3.32	1439.00	53.03	1.77
6.395	4690.00	1441.60	4126.66	6402.19	2.65	2275.53	540.00	2.60	1439.00	55.84	1.42
6.520	11560.00	1445.48	4023.52	6781.61	2.77	2758.10	660.00	3.48	1442.00	36.63	1.81
6.520	11560.00	1445.93	4215.00	6005.00	2.80	1790.00	660.00	3.93	1442.00	35.38	1.55
6.520	8845.00	1445.12	4040.17	6726.11	2.79	2685.95	660.00	3.12	1442.00	35.50	1.62
6.520	4690.00	1444.39	4072.32	6597.69	2.79	2525.38	660.00	2.39	1442.00	33.81	1.26
6.645	11560.00	1448.24	4199.57	6886.23	2.76	2686.67	660.00	4.24	1444.00	46.34	1.90
6.645	11560.00	1448.50	4380.00	6370.00	2.57	1990.00	660.00	4.50	1444.00	42.63	2.08
6.645	8845.00	1447.85	4267.85	6834.41	2.73	2566.56	660.00	3.85	1444.00	46.94	1.74
6.645	4690.00	1447.13	4306.56	6732.79	2.73	2426.23	660.00	3.13	1444.00	50.07	1.40
6.787	11560.00	1450.99	4420.43	7289.71	2.75	2869.28	750.00	4.99	1446.00	30.69	1.57
6.787	11560.00	1451.31	4490.00	6620.00	2.81	2200.00	750.00	5.31	1446.00	33.51	1.77
6.787	8845.00	1450.59	4451.47	7269.02	2.73	2737.95	750.00	4.58	1446.00	29.91	1.45
6.787	4690.00	1449.75	4502.32	7226.57	2.63	2391.76	750.00	3.75	1446.00	26.50	1.22
6.906	11560.00	1453.78	4572.87	7940.17	2.79	3367.30	630.00	4.78	1449.00	60.91	1.49
6.906	11560.00	1454.15	4620.00	6840.00	2.85	2220.00	630.00	5.15	1449.00	59.43	1.71
6.906	8845.00	1453.42	4634.63	7908.05	2.84	3232.39	630.00	4.42	1449.00	66.09	1.31
6.906	4690.00	1452.65	4769.25	7839.45	2.90	2534.52	630.00	3.65	1449.00	85.14	1.05

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SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
7.020	11499.00	1457.84	4677.29	8467.07	4.06	3789.78	600.00	4.84	1453.00	49.25	1.57
7.020	11499.00	1458.78	4670.00	6590.00	4.63	1920.00	600.00	3.78	1453.00	75.48	2.56
7.020	8769.00	1457.56	4704.53	8406.64	4.14	3702.12	600.00	4.56	1453.00	46.86	1.37
7.020	4646.00	1457.01	4751.29	8288.95	4.36	3245.34	600.00	4.01	1453.00	40.90	.99
7.134	7430.00	1460.98	4371.08	6378.20	3.14	2007.12	600.00	3.48	1457.50	53.16	1.60
7.134	7430.00	1461.06	4550.00	5950.00	3.15	1300.00	600.00	3.46	1457.50	71.14	1.62

7.134	5750.00	1460.65	4391.01	6360.20	3.09	1969.18	600.00	3.19	1457.50	55.43	1.64
7.134	3065.00	1459.99	4592.55	6324.58	2.98	1732.03	600.00	2.49	1457.50	63.45	1.35
7.262	3362.00	1464.60	4846.72	5740.36	3.62	893.64	680.00	4.60	1460.00	58.93	2.19
7.262	3362.00	1464.93	4910.00	5150.00	2.99	240.00	680.00	4.93	1460.00	200.30	4.46
7.262	2729.00	1464.35	4857.10	5700.10	3.70	933.00	680.00	4.35	1460.00	57.06	2.02
7.262	1488.00	1463.77	4902.10	5553.75	3.78	639.81	680.00	3.77	1460.00	46.39	1.52
7.410	3362.00	1468.71	4555.05	5608.68	4.11	1053.52	780.00	4.71	1464.00	52.00	1.83
7.410	3362.00	1469.60	4670.00	5310.00	4.67	640.00	780.00	5.60	1464.00	25.95	1.64
7.410	2728.00	1468.46	4574.37	5596.84	4.11	1022.46	780.00	4.46	1464.00	52.77	1.76
7.410	1488.00	1467.73	4618.12	5503.32	3.96	780.49	780.00	3.73	1464.00	58.48	1.59
7.520	3420.00	1471.97	4300.88	5243.35	3.27	942.47	580.00	3.97	1468.00	59.10	1.92
7.520	3420.00	1472.12	4600.00	5210.00	2.52	610.00	580.00	4.12	1468.00	88.40	2.49
7.520	2775.00	1471.72	4311.38	5223.58	3.27	912.21	580.00	3.72	1468.00	57.70	1.77
7.520	1525.00	1471.14	4336.19	5176.88	3.41	840.70	580.00	3.14	1468.00	58.28	1.41
7.643	3420.00	1475.15	4506.81	5514.20	3.18	1007.40	650.00	5.15	1470.00	43.89	3.96
7.643	3420.00	1475.64	4615.00	5250.00	3.52	635.00	650.00	5.64	1470.00	38.21	4.10
7.643	2775.00	1474.91	4511.72	5486.22	3.19	974.50	650.00	4.91	1470.00	44.45	3.75
7.643	1525.00	1474.36	4522.96	5422.12	3.22	899.16	650.00	4.36	1470.00	44.42	3.19
7.764	3420.00	1478.29	4461.59	5513.11	3.14	981.00	600.00	5.79	1472.50	71.79	6.61
7.764	3420.00	1478.50	4775.00	5290.00	2.86	515.00	600.00	6.00	1472.50	70.61	6.76
7.764	2775.00	1478.06	4487.35	5506.74	3.15	925.20	600.00	5.56	1472.50	71.43	6.35
7.764	1525.00	1477.43	4600.37	5490.83	3.08	673.42	600.00	4.93	1472.50	68.36	5.56
7.868	3420.00	1482.09	4592.33	5180.42	3.90	587.59	590.00	6.09	1476.00	52.13	4.83
7.868	3420.00	1482.43	4746.00	5150.00	3.93	404.00	590.00	6.43	1476.00	57.85	5.45
7.868	2775.00	1481.82	4597.58	5176.29	3.75	578.70	590.00	5.82	1476.00	50.42	4.51
7.868	1525.00	1481.11	4606.91	5170.05	3.68	563.16	590.00	5.11	1476.00	49.54	3.79
7.969	3480.00	1484.40	4627.46	5512.95	2.30	885.49	530.00	3.90	1480.50	34.91	3.50
7.969	3480.00	1484.92	4795.00	5190.00	2.49	395.00	530.00	4.42	1480.50	37.60	4.08
7.969	2825.00	1484.11	4650.40	5507.35	2.29	856.94	530.00	3.61	1480.50	35.91	3.31
7.969	1560.00	1483.47	4731.50	5494.41	2.36	762.90	530.00	2.97	1480.50	38.56	2.82
8.073	3480.00	1486.91	4696.33	5531.42	2.51	835.09	550.00	3.51	1483.40	71.35	4.62
8.073	3480.00	1487.44	4845.00	5265.00	2.52	420.00	550.00	4.04	1483.40	63.13	4.94
8.073	2825.00	1486.69	4718.52	5528.56	2.57	810.04	550.00	3.29	1483.40	72.06	4.36
8.073	1560.00	1486.17	4768.63	5522.11	2.70	753.48	550.00	2.77	1483.40	71.11	3.68

SECNO	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
8.173	3480.00	1489.60	4314.76	5790.15	2.70	1475.39	580.00	4.60	1485.00	31.48	3.60
8.173	3480.00	1490.20	4800.00	5290.00	2.76	490.00	580.00	5.20	1485.00	35.40	4.29
8.173	2825.00	1489.38	4360.83	5779.06	2.70	1419.24	580.00	4.38	1485.00	31.55	3.44
8.173	1560.00	1488.85	4463.91	5752.03	2.68	1233.91	580.00	3.85	1485.00	32.17	3.03
8.298	3480.00	1492.33	4763.06	5708.99	2.72	940.52	630.00	5.33	1487.00	83.57	5.70
8.298	3480.00	1492.74	4840.00	5235.00	2.54	395.00	630.00	5.74	1487.00	54.25	4.93
8.298	2825.00	1492.10	4822.57	5701.31	2.72	879.34	630.00	5.10	1487.00	80.13	5.29
8.298	1560.00	1491.47	4850.80	5179.67	2.63	318.87	630.00	4.47	1487.00	64.42	4.02
8.421	3480.00	1495.78	4459.19	5230.09	3.45	770.90	650.00	6.28	1489.50	34.54	4.70
8.421	3480.00	1496.03	4760.00	5140.00	3.29	380.00	650.00	6.53	1489.50	51.57	5.94
8.421	2825.00	1495.47	4479.02	5223.22	3.37	744.20	650.00	5.97	1489.50	34.10	4.45
8.421	1560.00	1494.66	4531.88	5204.92	3.19	673.04	650.00	5.16	1489.50	38.54	4.09
8.535	3540.00	1498.26	4641.54	5249.45	2.48	607.91	600.00	5.26	1493.00	48.37	4.50

8.535	2875.00	1497.95	4573.56	5228.64	2.48	555.07	600.00	4.95	1493.00	48.64	4.21
8.535	1595.00	1497.24	4723.24	5139.92	2.57	416.68	600.00	4.24	1493.00	43.91	3.32
8.639	3540.00	1500.94	4464.16	5079.56	2.68	615.80	540.00	5.94	1495.00	60.83	5.77
8.639	3540.00	1501.53	4760.00	5045.00	2.73	285.00	540.00	6.53	1495.00	91.64	7.66
8.639	2875.00	1500.64	4480.64	5068.62	2.69	587.98	540.00	5.64	1495.00	60.57	5.46
8.639	1595.00	1499.85	4518.70	5043.52	2.62	467.52	540.00	4.85	1495.00	64.28	4.87
8.736	3540.00	1503.60	4442.00	5130.00	2.66	696.01	510.00	5.60	1497.00	48.79	5.39
8.736	3540.00	1504.58	4850.00	5120.00	3.05	270.00	510.00	7.58	1497.00	35.93	5.16
8.736	2875.00	1503.30	4447.23	5132.77	2.66	685.55	510.00	6.30	1497.00	48.87	4.93
8.736	1595.00	1502.59	4459.68	5120.32	2.74	595.04	510.00	5.59	1497.00	47.30	4.21
8.851	3540.00	1506.57	4758.47	5289.16	2.97	530.69	610.00	6.57	1500.00	56.79	5.65
8.851	3540.00	1507.00	4870.00	5175.00	2.42	305.00	610.00	7.00	1500.00	47.76	5.54
8.851	2875.00	1506.26	4797.62	5284.14	2.96	486.52	610.00	6.26	1500.00	54.73	5.26
8.851	1595.00	1505.48	4843.84	5254.04	2.89	410.20	610.00	5.48	1500.00	50.49	4.33
8.950	3540.00	1509.17	4653.84	5361.36	2.60	707.52	520.00	6.97	1502.20	42.29	4.99
8.950	3540.00	1509.50	4900.00	5160.00	2.50	260.00	520.00	7.30	1502.20	50.07	5.71
8.950	2875.00	1508.83	4675.97	5353.70	2.57	677.74	520.00	6.63	1502.20	43.73	4.79
8.950	1595.00	1508.01	4729.29	5335.24	2.53	605.95	520.00	5.81	1502.20	47.26	4.24
9.043	3540.00	1511.18	4856.45	5345.92	2.01	489.46	490.00	7.48	1503.70	41.16	5.10
9.043	3540.00	1511.69	4925.00	5160.00	2.19	235.00	490.00	7.99	1503.70	39.46	5.37
9.043	2875.00	1510.85	4863.16	5332.84	2.02	469.68	490.00	7.15	1503.70	39.29	4.73
9.043	1595.00	1510.02	4879.44	5301.09	2.01	421.64	490.00	6.32	1503.70	34.79	3.83
9.113	3540.00	1512.71	4771.87	5369.14	1.52	597.27	370.00	7.71	1505.00	40.99	5.22
9.113	3540.00	1513.20	4915.00	5140.00	1.51	225.00	370.00	8.20	1505.00	43.49	5.76
9.113	2875.00	1512.33	4784.27	5348.16	1.48	545.21	370.00	7.33	1505.00	41.69	4.97
9.113	1595.00	1511.40	4908.97	5286.64	1.38	377.67	370.00	6.40	1505.00	41.28	4.19

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SECND	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
9.211	3660.00	1515.07	4686.03	5104.33	2.37	499.30	520.00	8.07	1507.00	59.31	7.59
9.211	3660.00	1515.58	4845.00	5085.00	2.38	240.00	520.00	8.58	1507.00	53.07	7.56
9.211	2975.00	1514.70	4638.59	5097.63	2.37	459.04	520.00	7.70	1507.00	58.00	7.20
9.211	1665.00	1513.72	4737.39	5077.24	2.32	339.85	520.00	6.72	1507.00	56.47	6.29
9.317	3660.00	1518.04	4702.59	5312.78	2.96	568.54	560.00	8.04	1510.00	44.55	5.90
9.317	3660.00	1518.46	4851.85	5060.00	2.89	208.15	560.00	8.46	1510.00	49.57	6.32
9.317	2975.00	1517.62	4890.75	5270.69	2.91	389.93	560.00	7.62	1510.00	43.34	5.50
9.317	1665.00	1516.56	4895.54	5162.78	2.84	266.24	560.00	6.56	1510.00	39.98	4.48
9.402	3660.00	1520.78	4754.38	5189.89	2.75	435.51	520.00	8.28	1512.50	71.65	7.54
9.402	3660.00	1521.24	4895.00	5100.00	2.78	205.00	520.00	8.74	1512.50	61.85	7.41
9.402	2975.00	1520.35	4763.07	5164.91	2.73	401.84	520.00	7.85	1512.50	75.23	7.30
9.402	1665.00	1519.24	4843.57	5091.77	2.68	246.20	520.00	6.74	1512.50	82.50	6.44
9.473	3660.00	1523.29	4743.55	5239.24	2.50	495.69	370.00	6.79	1516.50	48.49	6.17
9.473	3660.00	1523.65	4925.00	5140.00	2.41	215.00	370.00	7.15	1516.50	60.66	7.22
9.473	2975.00	1522.91	4758.58	5227.97	2.56	477.39	370.00	6.41	1516.50	48.17	5.86
9.473	1665.00	1521.97	4778.48	5198.94	2.73	428.46	370.00	5.47	1516.50	52.78	5.31
9.567	3720.00	1525.21	4783.78	5245.71	1.93	461.93	500.00	9.21	1516.00	33.11	6.00
9.567	3720.00	1525.80	4905.00	5135.00	2.15	230.00	500.00	9.80	1516.00	29.40	5.98
9.567	3025.00	1524.79	4800.81	5231.63	1.88	430.82	500.00	8.79	1516.00	31.52	5.61
9.567	1700.00	1523.78	4845.16	5195.83	1.82	350.67	500.00	7.78	1516.00	26.18	4.55
9.649	3720.00	1526.73	4851.76	5238.31	1.52	386.53	430.00	7.23	1519.50	37.44	5.78
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

9.649	3025.00	1526.26	4863.52	5213.60	1.47	350.07	430.00	6.76	1519.50	36.27	5.37
9.649	1700.00	1525.07	4892.38	5123.06	1.28	230.68	430.00	5.57	1519.50	31.55	4.21
9.726	3720.00	1529.78	4746.10	5060.78	2.05	314.68	410.00	7.78	1521.00	86.30	8.05
9.726	3720.00	1528.96	4800.00	5060.00	1.80	180.00	410.00	7.95	1521.00	112.70	9.42
9.726	3025.00	1528.30	4769.95	5043.14	2.04	273.19	410.00	7.38	1521.00	90.66	7.73
9.726	1700.00	1527.00	4803.38	5028.52	1.93	225.14	410.00	6.00	1521.00	121.15	7.54
9.791	3720.00	1531.02	4650.03	5098.65	2.25	448.63	340.00	8.52	1522.50	40.84	6.02
9.791	3720.00	1531.70	4860.00	5080.00	2.74	220.00	340.00	9.20	1522.50	37.70	6.23
9.791	3025.00	1530.59	4658.53	5077.95	2.29	419.42	340.00	8.09	1522.50	40.79	5.71
9.791	1700.00	1529.58	4708.32	5047.89	2.58	339.57	340.00	7.08	1522.50	36.94	4.84
9.899	3720.00	1533.50	4786.21	5246.26	2.48	460.05	570.00	8.50	1525.00	51.36	6.39
9.899	3720.00	1534.07	4940.00	5145.00	2.37	205.00	570.00	9.07	1525.00	51.63	6.85
9.899	3025.00	1533.09	4808.00	5239.00	2.50	431.00	570.00	8.09	1525.00	51.69	6.06
9.899	1700.00	1532.04	4862.83	5220.72	2.46	357.90	570.00	7.04	1525.00	54.86	5.32
9.980	3780.00	1535.62	4683.84	5194.25	2.12	510.41	430.00	8.12	1527.50	48.43	6.02
9.980	3780.00	1536.27	4835.00	5065.00	2.20	230.00	430.00	8.77	1527.50	50.86	6.68
9.980	3075.00	1535.23	4687.65	5188.52	2.14	500.87	430.00	7.73	1527.50	49.16	5.76
9.980	1735.00	1534.33	4696.70	5174.94	2.29	478.24	430.00	6.83	1527.50	53.04	5.18

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SECND	Q	CWSEL	SSTA	ENDST	DIFWSX	TOPWID	XLCH	DEPTH	ELMIN	10K*S	VCH
10.020	3780.00	1536.57	4791.30	5079.24	.95	287.95	210.00	8.07	1528.50	82.53	8.40
10.020	3780.00	1537.21	4895.00	5060.00	.94	165.00	210.00	8.71	1528.50	79.96	8.69
10.020	3075.00	1536.20	4793.69	5070.04	.99	276.35	210.00	7.70	1528.50	76.88	7.76
10.020	1735.00	1535.36	4798.21	5053.46	1.03	255.25	210.00	6.86	1528.50	59.49	6.07
10.077	3780.00	1538.43	4733.06	5106.94	1.86	373.89	300.00	8.93	1529.50	34.43	6.58
10.077	3780.00	1539.11	4890.00	5035.00	1.90	145.00	300.00	9.61	1529.50	30.39	6.55
10.077	3075.00	1537.93	4792.03	5044.52	1.73	252.48	300.00	8.43	1529.50	32.48	6.09
10.077	1735.00	1536.69	4826.06	5036.40	1.33	210.41	300.00	7.19	1529.50	26.14	4.79
10.137	3780.00	1539.89	4975.35	5184.50	1.46	209.14	320.00	8.39	1531.50	73.30	7.86
10.137	3780.00	1540.34	4980.00	5115.00	1.23	135.00	320.00	8.84	1531.50	74.64	8.59
10.137	3075.00	1539.32	4977.37	5181.61	1.39	204.24	320.00	7.82	1531.50	74.75	7.61
10.137	1735.00	1537.84	4982.32	5170.77	1.15	188.45	320.00	6.34	1531.50	91.67	7.40
10.179	3780.00	1541.07	4905.12	5203.72	1.19	298.60	220.00	8.57	1532.50	30.28	5.66
10.179	3780.00	1541.67	4940.00	5100.00	1.33	160.00	220.00	9.17	1532.50	28.87	5.87
10.179	3075.00	1540.53	4908.11	5194.19	1.21	286.08	220.00	8.03	1532.50	29.00	5.30
10.179	1735.00	1539.28	4916.05	5159.73	1.44	243.68	220.00	6.78	1532.50	27.11	4.32
10.283	3780.00	1543.01	4739.70	5100.05	1.94	360.35	550.00	8.51	1534.50	43.53	6.42
10.283	3780.00	1543.62	4900.00	5055.00	1.95	155.00	550.00	9.12	1534.50	59.51	8.00
10.283	3075.00	1542.48	4755.64	5097.39	1.95	341.75	550.00	7.98	1534.50	45.99	6.20
10.283	1735.00	1541.22	4785.54	5089.17	1.94	303.63	550.00	6.72	1534.50	55.27	5.72
10.382	3780.00	1544.95	4903.11	5190.66	1.94	287.55	520.00	8.45	1536.50	32.78	5.61
10.382	3780.00	1545.89	4945.00	5095.00	2.27	150.00	520.00	9.39	1536.50	22.25	5.09
10.382	3075.00	1544.46	4909.35	5171.96	1.98	262.62	520.00	7.96	1536.50	30.92	5.14
10.382	1735.00	1543.27	4936.86	5131.32	2.05	194.46	520.00	6.77	1536.50	24.79	3.92
10.444	3845.00	1546.00	4779.94	5300.04	1.05	520.10	330.00	6.00	1540.00	17.93	3.24
10.444	3845.00	1546.65	4935.00	5070.00	.76	135.00	330.00	6.65	1540.00	21.15	4.46
10.444	3125.00	1545.47	4903.92	5286.71	1.01	449.56	330.00	5.47	1540.00	18.97	3.09
10.444	1775.00	1544.19	4861.75	5254.58	.92	279.28	330.00	4.19	1540.00	24.28	2.72

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TRILBY WASH (CAP TO MCMI

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	SG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
2.737	1346.95	3.95	1347.11	1575.17	6073.04	4060.85	1554.11	.00	.00	4980.00	5085.00	.00
2.737	1347.57	.62	1347.85	585.00	6469.67	5218.33	.00	585.00	4500.00	4980.00	5085.00	5085.00
2.737	1346.20	2.20	1346.35	1437.75	4259.03	3444.10	1295.87	.00	.00	4980.00	5085.00	.00
2.737	1344.55	4.55	1344.68	949.52	1716.86	2246.16	809.98	.00	.00	4980.00	5085.00	.00
2.811	1347.70	.00	1347.83	1028.63	6582.27	3094.26	2011.46	.00	.00	4970.00	5060.00	.00
2.811	1348.55	.85	1348.73	628.22	6993.19	3838.47	856.34	.24	4499.14	4970.00	5060.00	5127.37
2.811	1346.94	.00	1347.04	1009.98	4955.08	2522.31	1521.62	.00	.00	4970.00	5060.00	.00
2.811	1345.30	.00	1345.38	945.90	2432.69	1591.07	749.23	.00	.00	4970.00	5060.00	.00
2.890	1348.37	.00	1348.48	1266.32	3874.89	3968.86	3844.25	.00	.00	4957.00	5129.00	.00
2.890	1349.27	.90	1349.44	797.98	3489.31	5181.50	3017.19	.27	4586.75	4957.00	5129.00	5384.73
2.890	1347.60	.00	1347.70	1238.65	2777.42	3208.76	3012.82	.00	.00	4957.00	5129.00	.00
2.890	1346.04	.00	1346.12	1177.53	1106.76	1976.89	1689.35	.00	.00	4957.00	5129.00	.00
3.023	1349.92	.00	1350.13	1443.34	2565.22	3277.54	5845.23	.00	.00	4958.00	5045.00	.00
3.023	1350.90	.89	1351.05	1000.00	2909.94	3811.52	4966.44	1000.00	4455.00	4958.00	5045.00	5455.00
3.023	1349.23	.00	1349.44	1387.07	1517.99	2846.50	4634.50	.00	.00	4958.00	5045.00	.00
3.023	1347.91	.00	1348.10	732.70	419.79	1911.17	2442.04	.00	.00	4958.00	5045.00	.00
3.199	1353.95	.00	1354.34	1638.68	3960.99	3479.64	4247.37	.00	.00	4968.00	5025.00	.00
3.199	1354.33	.38	1354.71	1145.00	3764.84	3538.99	4384.17	1145.00	4305.00	4968.00	5025.00	5450.00
3.199	1353.46	.00	1353.86	1580.30	2599.01	3116.01	3283.98	.00	.00	4968.00	5025.00	.00
3.199	1352.34	.00	1352.87	1293.14	654.25	2503.52	1615.23	.00	.00	4968.00	5025.00	.00
3.360	1358.30	.00	1358.46	2347.28	5201.41	2441.41	4045.18	.00	.00	4965.00	5032.00	.00
3.360	1358.58	.29	1358.82	1251.00	4247.71	2797.49	4642.80	1251.00	4369.00	4965.00	5032.00	5620.00
3.360	1357.84	.00	1358.00	2168.83	3801.51	2130.32	3057.16	.00	.00	4965.00	5032.00	.00
3.360	1356.94	.00	1357.03	1701.69	1600.35	1497.87	1674.77	.00	.00	4965.00	5032.00	.00
3.521	1362.96	.00	1363.19	2028.40	5159.51	1901.40	4627.09	.00	.00	4980.00	5030.00	.00
3.521	1363.41	.45	1363.68	1265.00	4510.85	2111.79	5065.37	1265.00	4385.00	4980.00	5030.00	5650.00
3.521	1362.56	.00	1362.79	1993.75	3921.85	1687.35	3389.80	.00	.00	4980.00	5030.00	.00
3.521	1361.72	.00	1362.00	1628.32	1839.38	1339.11	1594.51	.00	.00	4980.00	5030.00	.00
3.636	1366.76	.00	1366.86	3164.72	5839.67	1590.96	4257.37	.00	.00	4970.00	5032.00	.00
3.636	1367.57	.81	1367.80	1260.00	4113.85	2401.34	5173.61	1260.00	4480.00	4970.00	5032.00	5740.00
3.636	1366.42	.00	1366.51	3111.57	4850.14	1397.30	3051.57	.00	.00	4970.00	5032.00	.00
3.636	1365.77	.00	1365.85	2741.54	2417.83	1023.66	1331.51	.00	.00	4970.00	5032.00	.00
3.797	1371.47	.00	1371.59	2557.29	1557.08	9323.55	807.37	.00	.00	4455.00	5825.00	.00
3.797	1372.26	.79	1372.38	1330.00	.00	11688.00	.00	1330.00	4495.00	4455.00	5825.00	5825.00
3.797	1371.16	.00	1371.26	2467.39	1156.52	7479.12	363.36	.00	.00	4455.00	5825.00	.00
3.797	1370.51	.00	1370.59	1841.80	506.71	4243.74	22.55	.00	.00	4455.00	5825.00	.00

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SECNO	CWSEL	DIFKWS	SG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
3.958	1376.51	.00	1376.61	2185.20	506.19	7368.19	3813.62	.00	.00	4555.00	5582.00	.00
3.958	1377.02	.51	1377.18	1180.00	.00	10530.71	1157.29	1180.00	4555.00	4555.00	5582.00	5735.00
3.958	1376.19	.00	1376.27	2092.53	397.13	5830.13	2771.74	.00	.00	4555.00	5582.00	.00
3.958	1375.57	.00	1375.61	1913.76	230.85	3282.72	1259.43	.00	.00	4555.00	5582.00	.00

4.053	1379.94	.63	1380.08	1165.00	.00	9970.00	1718.00	1165.00	4480.00	4480.00	5400.00	5645.00
4.053	1378.93	.00	1379.01	2034.06	600.72	5780.03	2618.25	.00	.00	4480.00	5400.00	.00
4.053	1378.20	.00	1378.26	1845.31	362.10	3380.08	1030.82	.00	.00	4480.00	5400.00	.00
4.157	1381.89	.00	1381.99	2123.18	1531.67	6447.79	3645.54	.00	.00	4410.00	5180.00	.00
4.157	1382.72	.83	1382.88	963.66	.00	10182.49	1442.51	.43	4410.00	4410.00	5180.00	5373.66
4.157	1381.52	.00	1381.59	2062.60	1141.46	5205.08	2573.45	.00	.00	4410.00	5180.00	.00
4.157	1380.81	.00	1380.86	1946.80	543.44	3150.91	1035.64	.00	.00	4410.00	5180.00	.00
4.275	1384.50	.00	1384.63	1988.62	3171.50	3038.57	5414.93	.00	.00	4870.00	5060.00	.00
4.275	1385.52	1.02	1385.74	984.22	1362.20	4354.76	5708.03	.40	4713.77	4870.00	5060.00	5697.99
4.275	1384.10	.00	1384.21	1929.35	2446.83	2477.03	3996.14	.00	.00	4870.00	5060.00	.00
4.275	1383.31	.00	1383.39	1778.45	1319.39	1537.13	1873.48	.00	.00	4870.00	5060.00	.00
4.405	1387.71	.00	1388.05	1581.55	849.62	5729.69	5045.69	.00	.00	4880.00	5075.00	.00
4.405	1388.50	.79	1388.91	910.00	.00	6768.24	4856.76	910.00	4880.00	4880.00	5075.00	5790.00
4.405	1387.23	.00	1387.61	1538.43	674.14	4851.49	3334.37	.00	.00	4880.00	5075.00	.00
4.405	1386.44	.00	1386.73	1453.91	386.61	3308.25	1035.14	.00	.00	4880.00	5075.00	.00
4.539	1391.38	.00	1391.64	1752.42	13.70	5064.59	6546.71	.00	.00	4892.00	5090.00	.00
4.539	1391.88	.50	1392.21	918.00	.00	5874.30	5750.70	918.00	4892.00	4892.00	5090.00	5810.00
4.539	1390.95	.00	1391.18	1666.13	4.88	4282.51	4632.61	.00	.00	4892.00	5090.00	.00
4.539	1390.08	.00	1390.28	1497.35	.00	2905.77	1824.23	.00	.00	4892.00	5090.00	.00
4.679	1394.35	.00	1394.59	1820.79	5135.94	4927.28	1561.79	.00	.00	4900.00	5090.00	.00
4.679	1394.90	.55	1395.20	1114.00	3674.58	6007.86	1942.57	1114.00	4546.00	4900.00	5090.00	5660.00
4.679	1393.85	.00	1394.06	1655.52	4115.80	4050.79	753.41	.00	.00	4900.00	5090.00	.00
4.679	1392.75	.00	1392.89	799.47	2360.20	2333.36	36.44	.00	.00	4900.00	5090.00	.00
4.810	1397.33	.00	1397.62	1807.27	5069.48	5495.68	1059.84	.00	.00	4900.00	5130.00	.00
4.810	1397.96	.62	1398.38	1169.00	3296.64	7020.42	1307.94	1169.00	4381.00	4900.00	5130.00	5550.00
4.810	1396.86	.00	1397.15	1753.69	3839.26	4643.59	437.15	.00	.00	4900.00	5130.00	.00
4.810	1395.61	.00	1395.97	785.79	1421.72	3305.26	3.00	.00	.00	4900.00	5130.00	.00
4.974	1401.75	.00	1402.02	1757.43	3284.46	5087.63	3252.91	.00	.00	4898.00	5090.00	.00
4.974	1402.22	.48	1402.52	1200.00	2440.39	5518.65	3663.97	1200.00	4400.00	4898.00	5090.00	5600.00
4.974	1401.33	.00	1401.57	1633.49	2294.65	4231.90	2393.45	.00	.00	4898.00	5090.00	.00
4.974	1400.42	.00	1400.61	1310.01	782.67	2699.65	1246.68	.00	.00	4898.00	5090.00	.00
5.099	1404.90	.00	1404.09	2039.54	601.65	10793.22	230.13	.00	.00	3838.00	5448.00	.00
5.099	1405.24	.44	1405.38	1280.00	.00	11476.63	148.37	1280.00	4260.00	3838.00	5448.00	5540.00
5.099	1404.33	.00	1404.41	2024.04	431.20	9416.62	72.18	.00	.00	3838.00	5448.00	.00
5.099	1403.39	.00	1403.45	1660.09	176.20	4563.80	.00	.00	.00	3838.00	5448.00	.00

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SECNO	CWSEL	DIFKWS	EG	TOPWID	DLCB	DCH	DROB	PERENC	STENCL	STCHL	STCHR	STENCR
5.217	1407.46	.00	1407.63	1734.12	776.85	10838.46	9.68	.00	.00	4010.00	5500.00	.00
5.217	1408.29	.83	1408.48	1160.00	.00	11625.00	.00	1160.00	4340.00	4010.00	5500.00	5500.00
5.217	1407.06	.00	1407.21	1624.78	543.32	8376.65	.03	.00	.00	4010.00	5500.00	.00
5.217	1406.15	.00	1405.28	1034.10	179.90	4550.10	.00	.00	.00	4010.00	5500.00	.00
5.346	1411.56	.00	1411.86	1491.46	2409.12	5543.82	3672.06	.00	.00	4815.00	5125.00	.00
5.346	1412.09	.52	1412.40	860.00	1303.57	6336.74	3984.69	860.00	4640.00	4815.00	5125.00	5500.00
5.346	1411.14	.00	1411.39	1302.78	1719.51	4330.16	2870.33	.00	.00	4815.00	5125.00	.00
5.346	1410.17	.00	1410.35	911.80	563.04	2243.60	1823.36	.00	.00	4815.00	5125.00	.00
5.490	1416.04	.00	1416.55	1543.70	2581.01	5297.89	3746.10	.00	.00	4960.00	5045.00	.00
5.490	1416.34	.30	1417.08	810.00	1977.93	6151.73	3495.34	810.00	4680.00	4960.00	5045.00	5490.00
5.490	1415.52	.00	1416.05	1453.82	1718.03	4696.18	2505.79	.00	.00	4960.00	5045.00	.00
5.490	1414.44	.00	1414.93	1048.32	578.12	3360.65	791.23	.00	.00	4960.00	5045.00	.00
5.540	1417.54	.00	1417.98	1466.09	369.24	5730.92	5520.00	.00	.00	4985.00	5045.00	.00

5.544	1418.11	.57	1418.36	850.00	65.93	6109.96	5445.11	850.00	4745.00	4805.00	5065.00	5595.00
5.544	1417.00	.00	1417.24	1245.16	196.59	4723.39	4000.01	.00	.00	4805.00	5065.00	.00
5.544	1415.79	.00	1415.98	890.90	26.59	2975.96	1726.45	.00	.00	4805.00	5065.00	.00
5.579	1418.00	.00	1419.10	291.09	661.46	10898.54	.00	.00	.00	4900.00	5079.00	.00
5.579	1418.44	.44	1419.59	250.67	40.32	11513.36	4.32	875.00	4675.00	4900.00	5079.00	5550.00
5.579	1417.48	.00	1418.26	279.73	395.50	8449.50	.00	.00	.00	4900.00	5079.00	.00
5.579	1416.22	.00	1416.57	252.21	69.75	4620.25	.00	.00	.00	4900.00	5079.00	.00
5.645	1420.12	.00	1420.26	1459.59	4015.49	3988.53	3551.97	.00	.00	4915.00	5065.00	.00
5.645	1420.56	.43	1420.73	900.00	3847.49	4476.82	3235.69	900.00	4515.00	4915.00	5065.00	5415.00
5.645	1419.24	.00	1419.39	1350.88	3006.95	3326.82	2511.23	.00	.00	4915.00	5065.00	.00
5.645	1417.45	.00	1417.60	788.90	1287.70	2036.18	1365.12	.00	.00	4915.00	5065.00	.00
5.717	1421.61	.00	1421.84	1378.99	241.42	11002.25	316.33	.00	.00	4442.00	5455.00	.00
5.717	1421.96	.35	1422.17	1013.00	.00	11560.00	.00	1013.00	4442.00	4442.00	5455.00	5455.00
5.717	1421.02	.00	1421.26	1296.36	131.29	8637.43	75.27	.00	.00	4442.00	5455.00	.00
5.717	1419.94	.00	1420.20	767.72	5.84	4684.16	.00	.00	.00	4442.00	5455.00	.00
5.777	1423.78	.00	1424.02	1692.27	4365.31	5526.43	1658.26	.00	.00	4875.00	5160.00	.00
5.777	1423.92	.14	1424.21	1080.00	4342.13	6063.28	1153.59	1080.00	4250.00	4875.00	5160.00	5430.00
5.777	1423.36	.00	1423.56	1531.03	3348.96	4456.80	1042.24	.00	.00	4875.00	5160.00	.00
5.777	1422.46	.00	1422.62	1353.63	1698.69	2686.20	305.11	.00	.00	4875.00	5160.00	.00
5.840	1425.88	.00	1426.00	1842.70	432.99	10478.93	648.07	.00	.00	4390.00	5612.00	.00
5.840	1426.14	.26	1426.23	1135.00	.00	11560.00	.00	1135.00	4390.00	4390.00	5612.00	5525.00
5.840	1425.44	.00	1425.55	1705.51	237.32	8223.32	334.37	.00	.00	4390.00	5612.00	.00
5.840	1424.64	.00	1424.71	1490.32	39.49	4560.62	89.90	.00	.00	4390.00	5612.00	.00
5.961	1429.26	.00	1429.39	1752.43	311.68	10823.59	424.73	.00	.00	4275.00	5665.00	.00
5.961	1429.61	.35	1429.78	1165.00	.00	11560.00	.00	1165.00	4500.00	4275.00	5665.00	5665.00
5.961	1428.88	.00	1429.00	1715.74	192.54	8359.17	293.30	.00	.00	4275.00	5665.00	.00
5.961	1428.20	.00	1428.27	1649.15	50.40	4525.36	114.24	.00	.00	4275.00	5665.00	.00

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SECNO	CWSEL	DIFKWS	GB	TOPWID	OLOB	OCH	OROB	PERENC	STENCL	STCHL	STCHR	STENCR
6.082	1432.94	.00	1433.04	2436.03	3860.04	7203.21	491.75	.00	.00	4505.00	5695.00	.00
6.082	1433.62	.68	1433.78	1190.00	.00	11560.00	.00	1190.00	4505.00	4505.00	5695.00	5695.00
6.082	1432.60	.00	1432.68	2306.27	2916.55	5644.96	233.48	.00	.00	4505.00	5695.00	.00
6.082	1431.95	.00	1432.01	1910.25	1523.44	3110.29	58.16	.00	.00	4505.00	5695.00	.00
6.200	1437.05	.00	1437.17	1720.27	.00	11307.86	252.14	.00	.00	4340.00	5890.00	.00
6.200	1437.42	.37	1437.53	1460.00	.00	11560.00	.00	1460.00	4430.00	4340.00	5890.00	5890.00
6.200	1436.69	.00	1436.79	1673.77	.00	8719.18	125.92	.00	.00	4340.00	5890.00	.00
6.200	1436.01	.00	1436.06	1582.34	.00	4678.74	11.26	.00	.00	4340.00	5890.00	.00
6.293	1440.16	.00	1440.22	2080.74	.03	9898.15	1661.83	.00	.00	4195.00	5820.00	.00
6.293	1440.34	.18	1440.42	1555.00	.00	11560.00	.00	1555.00	4265.00	4195.00	5820.00	5820.00
6.293	1439.73	.00	1439.78	2049.19	.00	7648.56	1135.44	.00	.00	4195.00	5820.00	.00
6.293	1438.95	.00	1438.98	1969.87	.00	4145.03	544.97	.00	.00	4195.00	5820.00	.00
6.395	1442.70	.00	1442.76	2742.71	230.85	11329.15	.00	.00	.00	4088.00	6610.00	.00
6.395	1443.13	.42	1443.20	1720.00	.00	11560.00	.00	1720.00	4150.00	4088.00	6610.00	5870.00
6.395	1442.32	.00	1442.37	2387.76	.00	8845.00	.00	.00	.00	4088.00	6610.00	.00
6.395	1441.60	.00	1441.63	2275.53	.00	4690.00	.00	.00	.00	4088.00	6610.00	.00
6.520	1445.48	.00	1445.52	2758.10	251.53	9216.63	2031.84	.00	.00	4215.00	6005.00	.00
6.520	1445.93	.45	1445.99	1790.00	.00	11560.00	.00	1790.00	4215.00	4215.00	6005.00	6005.00
6.520	1445.12	.00	1445.16	2685.95	147.67	7196.46	1500.87	.00	.00	4215.00	6005.00	.00
6.520	1444.39	.00	1444.42	2525.38	23.78	3985.01	681.21	.00	.00	4215.00	6005.00	.00
6.645	1448.26	.00	1448.30	2686.67	1.05	9724.52	3237.44	.00	.00	4325.00	6100.00	.00

6.645	1448.50	.26	1448.56	1990.00	.00	10429.73	1130.27	1990.00	4380.00	4235.00	6140.00	6370.00
6.645	1447.85	.00	1447.89	2566.56	.00	7245.29	1599.71	.00	.00	4235.00	6140.00	.00
6.645	1447.13	.00	1447.15	2426.23	.00	3966.66	723.33	.00	.00	4235.00	6140.00	.00
6.787	1450.99	.00	1451.03	2869.29	.00	7437.52	4122.48	.00	.00	4420.00	6210.00	.00
6.787	1451.31	.31	1451.35	2200.00	.00	9367.69	2192.31	2200.00	4420.00	4420.00	6210.00	6620.00
6.787	1450.58	.00	1450.61	2737.95	.00	5804.14	3040.86	.00	.00	4420.00	6210.00	.00
6.787	1449.75	.00	1449.77	2381.75	.00	3377.47	1312.53	.00	.00	4420.00	6210.00	.00
6.906	1453.79	.00	1453.84	3367.33	2.03	3339.74	6218.23	.00	.00	4620.00	6165.00	.00
6.906	1454.15	.37	1454.24	2220.00	.00	4826.62	6733.38	2220.00	4620.00	4620.00	6165.00	6840.00
6.906	1453.42	.00	1453.47	3232.39	.00	2220.12	6624.88	.00	.00	4620.00	6165.00	.00
6.906	1452.65	.00	1452.71	2534.52	.00	753.09	3936.91	.00	.00	4620.00	6165.00	.00
7.020	1457.84	.00	1457.89	3789.73	1.79	2697.26	8799.95	.00	.00	4710.00	5640.00	.00
7.020	1458.78	.94	1458.83	1920.00	57.37	6635.62	4805.81	1920.00	4670.00	4710.00	5640.00	6590.00
7.020	1457.56	.00	1457.59	3702.12	.01	1992.79	6776.19	.00	.00	4710.00	5640.00	.00
7.020	1457.01	.00	1457.03	3245.34	.00	944.90	3701.10	.00	.00	4710.00	5640.00	.00
7.134	1460.98	.00	1461.03	2007.12	113.94	3300.86	4015.19	.00	.00	4545.00	5400.00	.00
7.134	1461.94	.96	1461.99	1208.00	.00	4466.21	2963.79	1200.00	4650.00	4545.00	5400.00	5858.00
7.134	1460.65	.00	1460.69	1969.13	49.19	2545.87	3155.14	.00	.00	4545.00	5400.00	.00
7.134	1459.99	.00	1460.02	1732.03	.00	1353.62	1711.37	.00	.00	4545.00	5400.00	.00

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SECND	CWSEL	DIFKWS	SG	TOPWID	QLEB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
7.262	1464.60	.00	1464.67	893.64	20.59	2886.63	454.58	.00	.00	4910.00	5405.00	.00
7.262	1464.93	.33	1465.24	240.00	.00	3362.00	.00	240.00	4910.00	4910.00	5405.00	5150.00
7.262	1464.35	.00	1464.41	833.00	6.86	2404.61	314.53	.00	.00	4910.00	5405.00	.00
7.262	1463.77	.00	1463.80	639.81	.27	1372.04	115.69	.00	.00	4910.00	5405.00	.00
7.410	1468.71	.00	1468.76	1053.62	167.46	2798.52	336.02	.00	.00	4670.00	5310.00	.00
7.410	1469.60	.89	1469.64	640.00	.00	3362.00	.00	640.00	4670.00	4670.00	5310.00	5310.00
7.410	1468.46	.00	1468.50	1022.46	124.94	2333.91	259.15	.00	.00	4670.00	5310.00	.00
7.410	1467.73	.00	1467.77	780.49	46.26	1400.83	40.90	.00	.00	4670.00	5310.00	.00
7.520	1471.97	.00	1472.03	942.47	293.24	3099.77	27.00	.00	.00	4435.00	5165.00	.00
7.520	1472.12	.14	1472.21	610.00	.00	3373.74	46.26	610.00	4600.00	4435.00	5165.00	5210.00
7.520	1471.72	.00	1471.77	912.21	227.34	2535.27	12.39	.00	.00	4435.00	5165.00	.00
7.520	1471.14	.00	1471.17	840.70	105.64	1415.19	.18	.00	.00	4435.00	5165.00	.00
7.643	1475.15	.00	1475.23	1007.40	1111.16	1466.66	942.19	.00	.00	4980.00	5110.00	.00
7.643	1475.64	.49	1475.60	635.00	1219.52	1775.89	424.59	635.00	4615.00	4980.00	5110.00	5250.00
7.643	1474.91	.00	1475.03	974.50	853.18	1270.30	651.52	.00	.00	4980.00	5110.00	.00
7.643	1474.36	.00	1474.45	899.16	371.60	846.99	306.42	.00	.00	4980.00	5110.00	.00
7.764	1478.29	.00	1478.64	981.00	1033.13	1622.88	763.98	.00	.00	4955.00	5012.00	.00
7.764	1478.50	.21	1478.69	515.00	804.98	1738.54	876.48	515.00	4775.00	4955.00	5012.00	5290.00
7.764	1478.06	.00	1478.41	925.20	768.13	1476.24	536.62	.00	.00	4955.00	5012.00	.00
7.764	1477.43	.00	1477.78	673.42	248.71	1091.74	184.55	.00	.00	4955.00	5012.00	.00
7.868	1482.09	.00	1482.26	587.59	1447.01	1164.22	800.77	.00	.00	4955.00	5025.00	.00
7.868	1482.43	.34	1482.68	404.00	1037.78	1440.34	941.96	404.00	4746.00	4955.00	5025.00	5150.00
7.868	1481.82	.00	1481.97	578.70	1126.05	994.64	654.31	.00	.00	4955.00	5025.00	.00
7.868	1481.11	.00	1481.23	563.18	517.93	652.82	354.25	.00	.00	4955.00	5025.00	.00
7.969	1484.40	.00	1484.51	885.49	523.27	1677.54	1279.19	.00	.00	4925.00	5095.00	.00
7.969	1484.92	.52	1485.11	395.00	523.56	2322.47	533.98	395.00	4795.00	4925.00	5095.00	5190.00
7.969	1484.11	.00	1484.21	856.94	385.25	1428.78	1010.96	.00	.00	4925.00	5095.00	.00
7.969	1483.47	.00	1483.56	762.90	162.87	906.60	491.33	.00	.00	4925.00	5095.00	.00

8.073	1487.44	.54	1487.73	420.00	264.00	2393.33	822.60	420.00	4845.00	4940.00	5100.00	5265.00
8.073	1486.69	.00	1486.87	810.04	160.72	1535.05	1079.23	.00	.00	4940.00	5100.00	.00
8.073	1486.17	.00	1486.31	753.48	24.51	1024.75	510.73	.00	.00	4940.00	5100.00	.00
8.173	1489.60	.00	1489.69	1475.39	950.63	1317.22	1212.15	.00	.00	4935.00	5050.00	.00
8.173	1490.20	.60	1490.37	490.00	579.39	1862.01	1038.59	490.00	4800.00	4935.00	5050.00	5290.00
8.173	1489.38	.00	1489.47	1418.24	728.85	1168.31	927.34	.00	.00	4935.00	5050.00	.00
8.173	1488.85	.00	1488.93	1233.91	317.36	843.09	339.54	.00	.00	4935.00	5050.00	.00
8.298	1492.33	.00	1492.72	940.92	275.12	2657.44	547.43	.00	.00	4922.00	5075.00	.00
8.298	1492.74	.41	1493.04	395.00	314.70	2643.11	522.19	395.00	4840.00	4922.00	5075.00	5235.00
8.298	1492.10	.00	1492.46	879.34	207.41	2280.77	335.82	.00	.00	4922.00	5075.00	.00
8.298	1491.47	.00	1491.69	318.87	90.98	1349.40	119.61	.00	.00	4922.00	5075.00	.00

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
8.421	1495.78	.00	1495.95	770.90	1569.53	1465.27	445.40	.00	.00	4970.00	5040.00	.00
8.421	1496.03	.25	1496.36	380.00	1102.50	1955.14	422.37	380.00	4760.00	4970.00	5040.00	5140.00
8.421	1495.47	.00	1495.63	744.20	1206.68	1293.40	324.92	.00	.00	4970.00	5040.00	.00
8.421	1494.66	.00	1494.83	673.04	502.93	956.10	39.97	.00	.00	4970.00	5040.00	.00
8.535	1498.26	.00	1498.51	607.91	573.62	2682.46	233.92	.00	.00	4960.00	5045.00	.00
8.535	1498.80	.54	1499.07	340.00	.00	3099.39	440.61	340.00	4860.00	4860.00	5045.00	5200.00
8.535	1497.95	.00	1498.17	555.07	426.81	2267.87	179.32	.00	.00	4860.00	5045.00	.00
8.535	1497.24	.00	1497.39	416.68	195.13	1351.93	43.94	.00	.00	4860.00	5045.00	.00
8.639	1500.94	.00	1501.19	615.80	2042.01	1485.38	12.61	.00	.00	4980.00	5045.00	.00
8.639	1501.53	.60	1502.16	285.00	1267.24	2272.76	.00	285.00	4760.00	4980.00	5045.00	5045.00
8.639	1500.64	.00	1500.88	587.90	1572.04	1298.53	4.42	.00	.00	4980.00	5045.00	.00
8.639	1499.85	.00	1500.08	467.52	682.01	912.99	.00	.00	.00	4980.00	5045.00	.00
8.736	1503.60	.00	1503.86	696.00	1287.43	2111.19	141.38	.00	.00	4978.00	5080.00	.00
8.736	1504.58	.98	1504.90	270.00	697.48	2613.91	238.61	270.00	4850.00	4978.00	5080.00	5120.00
8.736	1503.30	.00	1503.55	685.55	914.33	1855.53	105.14	.00	.00	4978.00	5080.00	.00
8.736	1502.59	.00	1502.81	595.04	275.76	1278.36	40.88	.00	.00	4978.00	5080.00	.00
8.851	1506.57	.00	1506.86	530.69	566.26	1774.36	1199.39	.00	.00	4935.00	5012.00	.00
8.851	1507.00	.43	1507.30	305.00	539.44	1924.05	1076.51	305.00	4870.00	4935.00	5012.00	5175.00
8.851	1506.26	.00	1506.51	486.52	438.47	1524.50	912.03	.00	.00	4935.00	5012.00	.00
8.851	1505.48	.00	1505.60	410.20	218.84	995.06	331.10	.00	.00	4935.00	5012.00	.00
8.950	1509.17	.00	1509.40	707.52	378.31	1979.65	1183.04	.00	.00	4930.00	5025.00	.00
8.950	1509.50	.33	1509.88	260.00	143.72	2441.54	954.74	260.00	4900.00	4930.00	5025.00	5160.00
8.950	1508.93	.00	1509.06	677.74	228.74	1746.48	839.77	.00	.00	4930.00	5025.00	.00
8.950	1508.01	.00	1508.23	605.95	28.94	1213.92	350.14	.00	.00	4930.00	5025.00	.00
9.043	1511.18	.00	1511.46	489.46	358.97	2253.16	927.88	.00	.00	4970.00	5070.00	.00
9.043	1511.69	.51	1512.05	235.00	312.75	2651.27	577.98	235.00	4925.00	4970.00	5070.00	5160.00
9.043	1510.85	.00	1511.09	469.60	261.91	1930.17	682.91	.00	.00	4970.00	5070.00	.00
9.043	1510.02	.00	1510.21	421.64	91.74	1253.83	249.44	.00	.00	4970.00	5070.00	.00
9.113	1512.71	.00	1512.97	597.27	462.10	2042.69	1035.22	.00	.00	4970.00	5055.00	.00
9.113	1513.20	.49	1513.59	225.00	506.64	2488.70	544.66	225.00	4915.00	4970.00	5055.00	5140.00
9.113	1512.33	.00	1512.58	545.21	339.67	1783.18	752.15	.00	.00	4970.00	5055.00	.00
9.113	1511.40	.00	1511.61	377.67	164.16	1172.65	258.19	.00	.00	4970.00	5055.00	.00
9.211	1515.07	.00	1515.55	498.30	1578.26	1832.94	248.80	.00	.00	4990.00	5029.00	.00
9.211	1515.58	.50	1515.10	240.00	1366.38	1973.88	319.73	240.00	4845.00	4990.00	5029.00	5085.00
9.211	1514.70	.00	1515.17	459.04	1166.91	1634.57	173.52	.00	.00	4990.00	5029.00	.00
9.211	1513.72	.00	1514.17	339.85	431.93	1186.40	46.67	.00	.00	4990.00	5029.00	.00
9.317	1520.06	.00	1512.47	550.54	558.97	2667.35	541.50	.00	.00	4973.00	5003.00	.00

9.317	1518.46	.43	1518.98	208.15	745.78	2910.22	.00	210.00	4850.00	4979.00	5062.00	5060.00
9.317	1517.62	.00	1517.98	389.93	417.98	2198.69	358.33	.00	.00	4979.00	5062.00	.00
9.317	1516.56	.00	1516.83	266.24	163.78	1399.41	181.81	.00	.00	4979.00	5062.00	.00

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
9.402	1520.78	.00	1521.39	435.5[illegible]	837.73	2402.68	399.59	.00	.00	4985.00	5045.00	.00
9.402	1521.24	.46	1521.87	205.00	675.34	2563.88	420.76	205.00	4895.00	4985.00	5045.00	5100.00
9.402	1520.35	.00	1520.96	401.84	570.54	2135.46	259.00	.00	.00	4985.00	5045.00	.00
9.402	1519.24	.00	1519.81	246.20	118.03	1458.99	87.97	.00	.00	4985.00	5045.00	.00
9.473	1523.29	.00	1523.58	495.69	985.40	1577.86	1096.74	.00	.00	4981.00	5030.00	.00
9.473	1523.65	.37	1524.15	215.00	530.62	1974.58	1154.80	215.00	4925.00	4981.00	5030.00	5140.00
9.473	1522.91	.00	1523.19	477.39	727.47	1391.34	956.28	.00	.00	4981.00	5030.00	.00
9.473	1521.97	.00	1522.25	428.46	247.64	1016.53	400.83	.00	.00	4981.00	5030.00	.00
9.567	1525.21	.00	1525.57	461.93	605.36	2231.23	883.41	.00	.00	4980.00	5035.00	.00
9.567	1525.80	.59	1526.19	230.00	499.72	2416.08	804.19	230.00	4905.00	4980.00	5035.00	5135.00
9.567	1524.79	.00	1525.12	430.82	420.73	1955.94	648.34	.00	.00	4980.00	5035.00	.00
9.567	1523.78	.00	1524.04	350.67	123.74	1335.78	248.46	.00	.00	4980.00	5035.00	.00
9.649	1526.73	.00	1527.07	386.53	1158.98	2140.34	422.68	.00	.00	4970.00	5035.00	.00
9.649	1527.16	.43	1527.52	190.00	1174.90	2263.47	285.63	190.00	4900.00	4970.00	5035.00	5090.00
9.649	1526.26	.00	1526.57	350.07	956.82	1824.87	241.31	.00	.00	4970.00	5035.00	.00
9.649	1525.07	.00	1525.28	230.68	565.45	1105.87	33.68	.00	.00	4970.00	5035.00	.00
9.726	1528.79	.00	1529.46	314.63	1366.19	2344.66	9.15	.00	.00	4975.00	5032.00	.00
9.726	1528.96	.18	1530.05	180.00	858.04	2842.07	19.90	180.00	4880.00	4975.00	5032.00	5060.00
9.726	1529.30	.00	1529.95	273.19	983.03	2041.23	.75	.00	.00	4975.00	5032.00	.00
9.726	1527.00	.00	1527.76	225.14	252.17	1447.83	.00	.00	.00	4975.00	5032.00	.00
9.791	1531.02	.00	1531.37	448.63	1587.53	2115.64	15.83	.00	.00	4989.00	5050.00	.00
9.791	1531.70	.68	1532.13	220.00	1223.40	2445.52	51.06	220.00	4860.00	4989.00	5050.00	5080.00
9.791	1530.59	.00	1530.92	419.42	1166.78	1854.38	3.83	.00	.00	4989.00	5050.00	.00
9.791	1529.58	.00	1529.86	339.57	424.20	1275.80	.00	.00	.00	4989.00	5050.00	.00
9.899	1533.50	.00	1533.88	460.03	438.58	2029.22	1252.20	.00	.00	4975.00	5035.00	.00
9.899	1534.07	.57	1534.58	205.00	276.15	2414.42	1029.43	205.00	4940.00	4975.00	5035.00	5145.00
9.899	1533.09	.00	1533.45	431.00	281.27	1777.27	956.46	.00	.00	4975.00	5035.00	.00
9.899	1532.04	.00	1532.37	357.90	52.72	1226.00	420.48	.00	.00	4975.00	5035.00	.00
9.980	1535.62	.00	1535.92	510.4[illegible]	1552.42	1826.01	400.57	.00	.00	4980.00	5040.00	.00
9.980	1536.27	.65	1536.73	230.00	1387.14	2284.75	108.11	230.00	4835.00	4980.00	5040.00	5065.00
9.980	1535.23	.00	1535.52	500.87	1195.91	1614.16	254.93	.00	.00	4980.00	5040.00	.00
9.980	1534.33	.00	1534.62	478.24	818.54	1170.91	45.55	.00	.00	4980.00	5040.00	.00
10.020	1536.57	.00	1537.29	287.95	1339.87	2323.13	117.00	.00	.00	4980.00	5029.00	.00
10.020	1537.21	.64	1538.14	165.00	857.62	2737.98	184.40	165.00	4895.00	4980.00	5029.00	5060.00
10.020	1536.20	.00	1536.84	276.35	1000.42	2003.72	70.86	.00	.00	4980.00	5029.00	.00
10.020	1535.36	.00	1535.60	255.25	400.14	1318.52	16.34	.00	.00	4980.00	5029.00	.00
10.077	1539.43	.00	1538.90	373.89	1121.41	2487.62	170.97	.00	.00	4967.00	5018.00	.00
10.077	1539.11	.68	1539.61	145.00	902.77	2703.02	174.21	145.00	4890.00	4967.00	5018.00	5035.00
10.077	1537.93	.00	1538.35	252.40	812.27	2146.32	116.41	.00	.00	4967.00	5018.00	.00
10.077	1536.69	.00	1536.98	210.4[illegible]	301.34	1385.47	43.19	.00	.00	4967.00	5018.00	.00

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR

10.137	1539.89	.00	1540.52	209.14	.00	2211.55	1568.43	.00	.00	4975.00	5025.00	.00
10.137	1540.34	.45	1541.18	135.00	.00	2562.19	1217.81	135.00	4980.00	4975.00	5025.00	5115.00
10.137	1539.32	.00	1539.93	204.24	.00	1926.87	1148.13	.00	.00	4975.00	5025.00	.00
10.137	1537.84	.00	1538.52	188.45	.00	1378.65	356.35	.00	.00	4975.00	5025.00	.00
10.179	1541.07	.00	1541.43	298.60	373.85	2567.66	838.50	.00	.00	4960.00	5030.00	.00
10.179	1541.67	.61	1542.10	160.00	234.03	2909.35	636.62	160.00	4940.00	4960.00	5030.00	5100.00
10.179	1540.53	.00	1540.85	286.03	282.91	2200.57	591.51	.00	.00	4960.00	5030.00	.00
10.179	1539.28	.00	1539.52	243.63	122.15	1416.70	196.14	.00	.00	4960.00	5030.00	.00
10.283	1543.01	.00	1543.40	360.35	1106.75	2135.03	536.21	.00	.00	4970.00	5025.00	.00
10.283	1543.62	.61	1544.41	155.00	532.55	2929.51	317.84	155.00	4900.00	4970.00	5025.00	5055.00
10.283	1542.48	.00	1542.87	341.75	782.33	1882.90	409.69	.00	.00	4970.00	5025.00	.00
10.283	1541.22	.00	1541.62	303.63	220.40	1342.36	172.24	.00	.00	4970.00	5025.00	.00
10.382	1544.95	.00	1545.36	287.55	175.96	3044.21	559.83	.00	.00	4975.00	5065.00	.00
10.382	1545.89	.93	1546.24	150.00	168.24	3193.39	418.37	150.00	4945.00	4975.00	5065.00	5095.00
10.382	1544.46	.00	1544.81	262.62	103.01	2560.76	411.23	.00	.00	4975.00	5065.00	.00
10.382	1543.27	.00	1543.49	194.46	14.73	1536.96	183.31	.00	.00	4975.00	5065.00	.00
10.444	1546.00	.00	1546.16	520.10	63.08	3673.30	128.62	.00	.00	4870.00	5145.00	.00
10.444	1546.65	.65	1546.96	135.00	.00	3845.00	.00	135.00	4935.00	4870.00	5145.00	5070.00
10.444	1545.47	.00	1545.61	449.56	28.39	3047.72	48.89	.00	.00	4870.00	5145.00	.00
10.444	1544.19	.00	1544.30	279.28	.12	1774.66	.22	.00	.00	4870.00	5145.00	.00

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SUMMARY OF ERRORS AND SPECIAL NOTES

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FLOODWAY DATA, TRILBY WASH (CAP TO MCMI
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
2.737	585.	3627.	3.2	1347.6	1347.0	.6
2.811	628.	4326.	2.7	1348.6	1347.7	.9
2.890	798.	4562.	2.6	1349.3	1348.4	.9
3.023	1000.	4157.	2.8	1350.8	1349.9	.9
3.199	1145.	3826.	3.1	1354.3	1353.9	.4
3.360	1251.	4235.	2.8	1358.6	1358.3	.3
3.521	1265.	3811.	3.1	1363.5	1363.0	.5
3.636	1260.	4134.	2.8	1367.6	1366.8	.8
3.797	1330.	4128.	2.8	1372.3	1371.5	.8
3.958	1180.	3701.	3.2	1377.0	1376.5	.5
4.053	1165.	3921.	3.0	1379.9	1379.3	.6
4.157	964.	3629.	3.2	1382.7	1381.9	.8
4.275	984.	3751.	3.1	1385.5	1384.5	1.0
4.405	910.	3102.	3.7	1388.5	1387.7	.8
4.539	918.	3328.	3.5	1391.9	1391.4	.5
4.679	1114.	3620.	3.2	1394.9	1394.3	.6
4.810	1169.	3164.	3.7	1397.9	1397.3	.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.5

5.099	1280.	4012.	2.9	1405.2	1404.8	.4
5.217	1160.	3368.	3.5	1408.3	1407.5	.8
5.346	860.	2907.	4.0	1412.1	1411.6	.5
5.490	810.	2694.	4.3	1416.3	1416.0	.3
5.544	850.	3488.	3.3	1418.1	1417.5	.6
5.579	453.	1380.	8.4	1418.4	1418.0	.4
5.645	900.	4433.	2.6	1420.5	1420.1	.4
5.717	1013.	3129.	3.7	1421.9	1421.6	.3
5.777	1080.	3378.	3.4	1423.9	1423.8	.1
5.840	1135.	3694.	3.1	1426.2	1425.9	.3
5.961	1165.	3443.	3.4	1429.7	1429.3	.4
6.082	1190.	3554.	3.3	1433.6	1432.9	.7
6.200	1460.	4479.	2.6	1437.5	1437.1	.4
6.293	1585.	4982.	2.3	1440.4	1440.2	.2
6.395	1720.	5208.	2.2	1443.1	1442.7	.4
6.520	1790.	5910.	2.0	1446.0	1445.5	.5
6.645	1950.	5825.	2.0	1448.5	1448.2	.3
6.787	2200.	6515.	1.8	1451.3	1451.0	.3
6.906	2220.	5273.	2.2	1454.2	1453.8	.4
7.020	1920.	4755.	2.4	1458.7	1457.8	.9
7.134	1208.	4026.	1.8	1462.0	1461.0	1.0
7.262	240.	754.	4.5	1464.9	1464.6	.3
7.410	640.	2055.	1.6	1469.6	1468.7	.9
7.520	610.	1391.	2.5	1472.1	1472.0	.1

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FLOODWAY DATA, TRILBY WASH (CAP TO MCMI
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
7.643	635.	1439.	2.4	1475.7	1475.2	.5
7.764	515.	1077.	3.2	1478.5	1478.3	.2
7.868	404.	1112.	3.1	1482.4	1482.1	.3
7.969	395.	1170.	3.0	1484.9	1484.4	.5
8.073	420.	1004.	3.5	1487.4	1486.9	.5
8.173	490.	1343.	2.6	1490.2	1489.6	.6
8.298	395.	967.	3.6	1492.7	1492.3	.4
8.421	380.	1059.	3.3	1496.0	1495.8	.2
8.535	340.	976.	3.8	1498.8	1498.3	.5
8.639	285.	774.	4.6	1501.5	1500.9	.6
8.736	270.	980.	3.6	1504.6	1503.6	1.0
8.851	305.	1031.	3.4	1507.0	1506.6	.4
8.950	260.	897.	3.9	1509.5	1509.2	.3
9.043	235.	910.	3.5	1511.7	1511.2	.5
9.113	225.	880.	4.0	1513.2	1512.7	.5
9.211	240.	906.	4.0	1515.6	1515.1	.5
9.317	208.	766.	4.8	1518.4	1518.0	.4
9.402	205.	765.	4.8	1521.3	1520.8	.5
9.473	215.	854.	4.3	1523.7	1523.3	.4
9.567	230.	1036.	3.6	1525.8	1525.2	.6
9.649	190.	935.	4.0	1527.1	1526.7	.4
9.736	180.	575.	6.5	1529.0	1528.8	.2
9.791	220.	931.	4.0	1531.7	1531.0	.7
9.899	205.	834.	4.5	1534.1	1533.5	.6
9.980	230.	911.	4.1	1536.3	1535.6	.7
10.020	165.	654.	5.0	1537.2	1536.6	.6
10.077	145.	850.	4.4	1539.1	1538.4	.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

10.179	160.	887.	4.3	1541.7	1541.1	.6
10.283	155.	686.	5.5	1543.6	1543.0	.6
10.382	150.	901.	4.2	1545.9	1545.0	.9
10.444	135.	862.	4.5	1546.6	1546.0	.6

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FLOODWAY DATA, TRILBY WASH (CAP TO MCMI
PROFILE NO. 3

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
2.737	1438.	4373.	2.1	1346.3	1347.0	-.7
2.811	1010.	4557.	2.0	1347.0	1347.7	-.7
2.890	1239.	4672.	1.9	1347.7	1348.4	-.7
3.023	1414.	3514.	2.6	1349.3	1349.9	-.6
3.199	1580.	3291.	2.7	1353.5	1353.9	-.4
3.360	2169.	4292.	2.1	1357.9	1358.3	-.4
3.521	1994.	3515.	2.6	1362.7	1363.0	-.3
3.636	3112.	5397.	1.7	1366.6	1366.8	-.2
3.797	2467.	3628.	2.5	1371.3	1371.5	-.2
3.958	2093.	4053.	2.2	1376.3	1376.5	-.2
4.053	2024.	3993.	2.3	1379.0	1379.3	-.3
4.157	2063.	4263.	2.1	1381.6	1381.9	-.3
4.275	2050.	4180.	2.1	1384.2	1384.5	-.3
4.405	1533.	3010.	3.0	1387.4	1387.7	-.3
4.539	1666.	3411.	2.6	1391.1	1391.4	-.3
4.679	1656.	3254.	2.7	1393.9	1394.3	-.4
4.810	1754.	2941.	3.0	1396.9	1397.3	-.4
4.974	1633.	3163.	2.6	1401.4	1401.7	-.3
5.099	2024.	4121.	2.2	1404.4	1404.8	-.4
5.217	1625.	2836.	3.1	1407.2	1407.5	-.3
5.346	1303.	2557.	3.5	1411.3	1411.6	-.3
5.490	1454.	2801.	3.2	1415.6	1416.0	-.4
5.544	1496.	3084.	2.9	1417.1	1417.5	-.4
5.579	495.	1378.	6.4	1417.6	1418.0	-.4
5.645	1351.	3846.	2.3	1419.3	1420.1	-.8
5.717	1434.	2349.	3.8	1421.1	1421.6	-.5
5.777	1531.	3239.	2.7	1423.5	1423.8	-.3
5.840	1862.	3530.	2.5	1425.6	1425.9	-.3
5.961	1716.	3418.	2.6	1429.0	1429.3	-.3
6.082	2355.	3845.	2.3	1432.7	1432.9	-.2
6.200	1674.	3569.	2.5	1436.8	1437.1	-.3
6.293	2049.	4900.	1.6	1439.9	1440.2	-.3
6.395	2388.	4996.	1.8	1442.4	1442.7	-.3
6.520	2686.	5725.	1.5	1445.2	1445.5	-.3
6.645	2567.	5265.	1.7	1447.9	1448.2	-.3
6.787	2818.	6224.	1.4	1450.7	1451.0	-.3
6.906	3273.	4848.	1.8	1453.5	1453.8	-.3
7.020	3702.	5682.	1.5	1457.6	1457.8	-.2
7.134	1969.	3437.	1.7	1460.8	1461.0	-.2
7.262	833.	1460.	1.9	1464.4	1464.6	-.2
7.410	1022.	1684.	1.6	1468.6	1468.7	-.1
7.520	912.	1613.	1.7	1471.8	1472.0	-.2

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FLOODWAY DATA, TRILBY WASH (CAP TO MCMI
PROFILE NO. 3

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
7.643	975.	1412.	2.0	1475.1	1475.2	-.1
7.764	1019.	1092.	2.5	1479.2	1479.3	-.1
7.868	579.	1185.	2.3	1481.9	1482.1	-.2
7.969	857.	1447.	2.0	1484.2	1484.4	-.2
8.073	810.	1114.	2.5	1486.8	1486.9	-.1
8.173	1418.	1834.	1.5	1489.5	1489.6	-.1
8.298	879.	764.	3.7	1492.2	1492.3	-.1
8.421	744.	1386.	2.0	1495.6	1495.8	-.2
8.535	555.	949.	3.0	1498.1	1498.3	-.2
8.639	588.	1060.	2.7	1500.7	1500.9	-.2
8.736	686.	1101.	2.6	1503.4	1503.6	-.2
8.851	487.	982.	2.9	1506.4	1506.6	-.2
8.950	678.	1132.	2.5	1509.0	1509.2	-.2
9.043	470.	1021.	2.8	1511.0	1511.2	-.2
9.113	564.	1022.	2.8	1512.4	1512.7	-.3
9.211	459.	902.	3.3	1514.8	1515.1	-.3
9.317	330.	859.	3.5	1517.7	1518.0	-.3
9.402	402.	724.	4.1	1520.5	1520.8	-.3
9.473	477.	1071.	2.8	1523.0	1523.3	-.3
9.567	431.	1042.	2.9	1524.9	1525.2	-.3
9.649	350.	895.	3.4	1526.3	1526.7	-.4
9.726	273.	650.	4.7	1528.4	1528.8	-.4
9.791	419.	984.	3.1	1530.7	1531.0	-.3
9.899	431.	925.	3.2	1533.2	1533.5	-.3
9.980	501.	1081.	2.8	1535.3	1535.6	-.3
10.020	276.	700.	4.3	1536.3	1536.6	-.3
10.077	252.	843.	3.6	1538.0	1538.4	-.4
10.137	204.	665.	4.6	1539.4	1539.9	-.5
10.179	286.	920.	3.3	1540.7	1541.1	-.4
10.283	342.	908.	3.4	1542.6	1543.0	-.4
10.382	263.	801.	3.8	1544.6	1545.0	-.4
10.444	483.	1122.	2.8	1545.6	1546.0	-.4

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FLOODWAY DATA, TRILBY WASH (CAP TO MCMI
PROFILE NO. 4

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
2.737	950.	2385.	2.0	1344.7	1347.0	-2.3
2.811	946.	2941.	1.6	1345.4	1347.7	-2.3
2.890	1178.	2795.	1.7	1346.2	1348.4	-2.2
3.023	1241.	1935.	2.5	1348.0	1349.9	-1.9
3.199	1450.	1621.	2.9	1352.4	1353.9	-1.5
3.360	1702.	2607.	1.8	1357.0	1358.3	-1.3
3.521	1628.	2009.	2.4	1361.9	1363.0	-1.1
3.636	2932.	3458.	1.4	1365.9	1366.8	-.9
3.797	2211.	2220.	2.1	1370.6	1371.5	-.9
3.958	1914.	2788.	1.7	1375.7	1376.5	-.8
4.053	1845.	2563.	1.9	1378.3	1379.3	-1.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.275	1919.	2729.	1.7	1383.4	1384.5	-1.1
4.405	1454.	1745.	2.7	1386.5	1387.7	-1.2
4.539	1497.	2032.	2.3	1390.2	1391.4	-1.2
4.679	819.	1736.	2.7	1392.8	1394.3	-1.5
4.810	1034.	1334.	3.5	1395.7	1397.3	-1.6
4.974	1310.	1825.	2.6	1400.5	1401.7	-1.2
5.099	1704.	2362.	2.0	1403.5	1404.8	-1.3
5.217	1529.	1620.	2.9	1406.3	1407.5	-1.2
5.346	912.	1511.	3.1	1410.3	1411.6	-1.3
5.490	1192.	1399.	3.4	1414.5	1416.0	-1.5
5.544	1067.	1750.	2.7	1415.9	1417.5	-1.6
5.579	485.	1041.	4.5	1416.3	1418.0	-1.7
5.645	940.	1821.	2.6	1417.5	1420.1	-2.6
5.717	1024.	1158.	4.0	1420.0	1421.6	-1.6
5.777	1382.	1937.	2.4	1422.6	1423.8	-1.2
5.840	1490.	2262.	2.1	1424.8	1425.9	-1.1
5.961	1649.	2263.	2.1	1428.3	1429.3	-1.0
6.082	2076.	2440.	1.9	1432.0	1432.9	-.9
6.200	1582.	2452.	1.9	1436.2	1437.1	-.9
6.293	1970.	3307.	1.4	1439.1	1440.2	-1.1
6.395	2276.	3298.	1.4	1441.7	1442.7	-1.0
6.520	2525.	3862.	1.2	1444.5	1445.5	-1.0
6.645	2426.	3453.	1.4	1447.2	1448.2	-1.0
6.787	2724.	4126.	1.1	1449.9	1451.0	-1.1
6.906	3070.	2601.	1.8	1452.8	1453.8	-1.0
7.020	3538.	3754.	1.2	1457.1	1457.8	-.7
7.134	1732.	2189.	1.4	1460.1	1461.0	-.9
7.262	652.	1029.	1.4	1463.9	1464.6	-.7
7.410	885.	999.	1.5	1467.8	1468.7	-.9
7.520	841.	1101.	1.4	1471.3	1472.0	-.7

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FLOODWAY DATA, TRILBY WASH (CAP TO MCMI
PROFILE NO. 4

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
7.643	899.	885.	1.7	1474.5	1475.2	-.7
7.764	890.	582.	2.6	1477.5	1478.3	-.8
7.868	563.	790.	1.9	1481.2	1482.1	-.9
7.969	763.	921.	1.7	1483.6	1484.4	-.8
8.073	753.	710.	2.2	1486.3	1486.9	-.6
8.173	1288.	1109.	1.4	1488.9	1489.6	-.7
8.298	319.	482.	3.2	1491.5	1492.3	-.8
8.421	673.	809.	1.9	1494.8	1495.8	-1.0
8.535	417.	604.	2.6	1497.4	1498.3	-.9
8.639	525.	637.	2.5	1499.9	1500.9	-1.0
8.736	661.	636.	2.5	1502.7	1503.6	-.9
8.851	410.	637.	2.5	1505.6	1506.6	-1.0
8.950	606.	605.	2.6	1508.1	1509.2	-1.1
9.043	422.	658.	2.4	1510.1	1511.2	-1.1
9.113	378.	611.	2.6	1511.5	1512.7	-1.2
9.211	340.	506.	3.3	1513.8	1515.1	-1.3
9.317	266.	514.	3.2	1516.6	1518.0	-1.4
9.402	246.	370.	4.5	1519.4	1520.8	-1.4
9.473	428.	644.	2.6	1522.1	1523.3	-1.2
9.567	351.	645.	2.6	1523.9	1525.2	-1.3
9.649	231.	546.	3.1	1525.1	1526.7	-1.6
9.796	225.	237.	5.0	1527.1	1529.8	-1.7

9.791	340.	597.	2.8	1529.7	1531.0	-1.3
9.899	358.	513.	3.3	1532.1	1533.5	-1.4
9.980	478.	638.	2.7	1534.4	1535.6	-1.2
10.020	255.	485.	3.6	1535.5	1536.6	-1.1
10.077	210.	557.	3.1	1536.8	1538.4	-1.6
10.137	188.	372.	4.7	1537.9	1539.9	-2.0
10.179	244.	586.	3.0	1539.4	1541.1	-1.7
10.283	304.	504.	3.4	1541.3	1543.0	-1.7
10.382	194.	529.	3.3	1543.4	1545.0	-1.6
10.444	393.	654.	2.7	1544.3	1546.0	-1.7

1

THIS RUN EXECUTED 05/05/88 15:37:16

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*****************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
*****************************************************
```

INPUT FILE: IONAEAST
OUTPUT FILE: IONAEAST.OUT

INPUT FILE: IONAWEST
OUTPUT FILE: IONAWEST.OUT

THIS RUN EXECUTED 04/28/88 10:07:18

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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T1 HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS
T2 100 YEAR FLOOD EVENT
T3 CAP OVERCHUTE 4 - IONA WASH (WEST CHANNEL)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	0.	0.	0.	.000000	.00	.5	12400.	1457.930	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	.000	.000	.000	.000	.000	.000	.000	15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	43.000	1.000	53.000	21.000	22.000	54.000	51.000	4.000	6.000
42.000	5.000	26.000	.000	.000	.000	.000	.000	.000	.000

NC	.090	.090	.090	.100	.300	.000	.000	.000	.000	.000
X1	.000	51.000	4710.000	5640.000	.000	.000	.000	.000	.000	.000
X2	12400.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1460.200	4185.000	1460.000	4378.000	1459.000	4480.000	1458.000	4662.000	1457.500	4710.000
GR	1456.000	4835.000	1456.000	4880.000	1455.000	4965.000	1455.000	5000.000	1456.000	5020.000
GR	1456.000	5045.000	1455.000	5070.000	1456.000	5080.000	1455.500	5255.000	1456.000	5315.000
GR	1456.000	5340.000	1456.000	5375.000	1456.000	5410.000	1455.000	5420.000	1456.000	5440.000
GR	1456.000	5485.000	1455.500	5640.000	1456.000	5795.000	1455.500	6000.000	1456.500	6210.000
GR	1457.000	6345.000	1457.500	6488.000	1457.000	6640.000	1456.000	6758.000	1454.000	6952.000
GR	1454.000	6970.000	1454.000	6988.000	1453.000	7005.000	1454.000	7019.000	1454.500	7100.000
GR	1454.000	7204.000	1454.000	7222.000	1456.000	7368.000	1456.500	7485.000	1456.000	7595.000
GR	1456.000	7805.000	1456.500	8005.000	1456.000	8182.000	1454.000	8200.000	1456.000	8212.000
GR	1457.000	8288.000	1458.000	8501.000	1460.000	8771.000	1462.000	8935.000	1464.000	9218.000
GR	1466.000	9340.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.114	14.000	4640.000	6410.000	570.000	630.000	600.000	.000	.000	.000
X2	6200.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1461.000	4060.000	1460.000	4270.000	1457.500	4640.000	1456.500	5000.000	1457.500	5230.000
GR	1458.500	5585.000	1460.000	6000.000	1460.000	6040.000	1456.000	6120.000	1456.000	6145.000
GR	1458.000	6220.000	1460.000	6340.000	1460.500	6410.000	1464.000	6850.000	.000	.000

1

X1	.201	22.000	7790.000	9170.000	560.000	460.000	440.000	.000	.000	.000
X2	6200.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1464.000	6930.000	1464.000	6930.000	1464.000	6930.000	1464.000	6930.000	1464.000	6930.000
GR	1462.000	7125.000	1460.000	7300.000	1460.000	7610.000	1459.500	7700.000	1460.000	7790.000
GR	1460.000	7860.000	1459.500	7900.000	1460.000	7950.000	1460.000	8180.000	1461.500	8500.000
GR	1462.000	8350.000	1460.000	8990.000	1459.500	9000.000	1462.000	9015.000	1462.000	9170.000
GR	1464.000	9360.000	1468.000	9800.000	.000	.000	.000	.000	.000	.000
X1	.402	17.000	4720.000	5300.000	950.000	1110.000	1030.000	.000	.000	.000
X2	6200.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1469.000	4180.000	1468.000	4275.000	1467.500	4430.000	1466.000	4590.000	1465.000	4720.000
GR	1464.500	5000.000	1465.000	5200.000	1466.000	5540.000	1468.000	5960.000	1469.000	6070.000
GR	1468.000	6160.000	1467.000	6230.000	1468.000	6350.000	1469.000	6390.000	1469.000	6570.000
GR	1470.000	6980.000	1472.000	7200.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.534	11.000	4825.000	5130.000	560.000	750.000	670.000	.000	.000	.000
X2	140.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1472.000	4400.000	1468.000	4750.000	1468.000	4825.000	1468.000	4910.000	1468.000	5000.000
GR	1466.000	5050.000	1467.500	5130.000	1468.000	5210.000	1471.000	5350.000	1472.000	5500.000
GR	1474.000	5670.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.663	8.000	4740.000	5120.000	650.000	680.000	680.000	.000	.000	.000
GR	1474.000	4250.000	1472.000	4680.000	1472.000	4740.000	1468.000	5000.000	1472.000	5120.000
GR	1472.000	5180.000	1474.000	5400.000	1476.000	5585.000	.000	.000	.000	.000
X1	.796	8.000	4875.000	5110.000	690.000	710.000	700.000	.000	.000	.000
GR	1480.000	4100.000	1477.500	4555.000	1476.000	4875.000	1473.000	5000.000	1476.000	5110.000
GR	1477.000	5260.000	1478.000	5545.000	1480.000	5640.000	.000	.000	.000	.000
X1	.919	12.000	4755.000	5025.000	640.000	650.000	650.000	.000	.000	.000
GR	1483.500	4365.000	1480.000	4720.000	1480.000	4755.000	1480.000	4795.000	1476.000	4890.000
GR	1476.000	4980.000	1475.500	5000.000	1476.000	5025.000	1480.000	5150.000	1484.000	5265.000
GR	1483.000	5430.000	1484.000	5695.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	.976	10.000	4950.000	5100.000	210.000	300.000	300.000	.000	.000	.000
X2	142.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1485.000	4620.000	1484.000	4850.000	1482.000	4950.000	1481.500	5000.000	1484.000	5015.000
GR	1484.000	5035.000	1484.000	5100.000	1484.000	5580.000	1488.000	5620.000	1485.000	5660.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1.046	8.000	4900.000	5230.000	350.000	450.000	370.000	.000	.000	.000
GR	1487.500	4375.000	1487.000	4565.000	1484.000	4900.000	1483.000	5000.000	1483.500	5070.000
GR	1483.000	5230.000	1484.000	5380.000	1488.000	5815.000	.000	.000	.000	.000
X1	1.133	9.000	4880.000	5350.000	450.000	460.000	460.000	.000	.000	.000
GR	1490.000	4355.000	1488.000	4685.000	1486.000	4880.000	1485.000	5000.000	1484.500	5050.000
GR	1486.000	5350.000	1488.000	5545.000	1490.000	5780.000	1492.000	6020.000	.000	.000

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X1	1.207	13.000	4930.000	5250.000	390.000	400.000	390.000	.000	.000	.000
GR	1491.500	4355.000	1491.000	4570.000	1488.000	4845.000	1487.500	4930.000	1489.500	5000.000
GR	1487.000	5090.000	1487.000	5130.000	1488.000	5250.000	1488.500	5320.000	1490.500	5450.000
GR	1491.500	5660.000	1492.000	5760.000	1494.000	6200.000	.000	.000	.000	.000
X1	1.285	7.000	4910.000	5110.000	410.000	410.000	410.000	.000	.000	.000
GR	1492.000	4600.000	1490.000	4910.000	1489.000	5000.000	1490.000	5110.000	1489.000	5350.000
GR	1492.000	5440.000	1495.000	5870.000	.000	.000	.000	.000	.000	.000
X1	1.393	8.000	4930.000	5060.000	570.000	570.000	570.000	.000	.000	.000
X2	145.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1487.500	4375.000	1485.000	4540.000	1484.000	4770.000	1483.500	4930.000	1483.000	4980.000

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GR   1491.500   5000.000   1492.000   5020.000   1494.100   5050.000      .000      .000      .000      .000

X1      1.476      8.000   4875.000   5120.000    420.000    440.000    440.000      .000      .000      .000
GR   1498.500   4400.000   1496.000   4875.000   1494.000   5000.000   1496.000   5120.000   1495.000   5230.000
GR   1496.000   5340.000   1496.000   5460.000   1500.000   5920.000      .000      .000      .000      .000

X1      1.592      7.000   4940.000   5250.000    610.000    610.000    610.000      .000      .000      .000
GR   1504.000   4300.000   1501.500   4595.000   1500.000   4870.000   1499.000   4940.000   1497.500   5000.000
GR   1500.000   5140.000   1501.000   5250.000      .000      .000      .000      .000      .000      .000

X1      1.702      5.000   4830.000   5220.000    580.000    580.000    580.000      .000      .000      .000
GR   1506.500   4450.000   1504.000   4830.000   1500.500   5000.000   1504.000   5220.000   1506.000   5410.000

X1      1.806      7.000   4970.000   5215.000    540.000    560.000    530.000      .000      .000      .000
GR   1509.500   4525.000   1508.000   4720.000   1504.000   4970.000   1503.000   5000.000   1504.000   5020.000
GR   1509.000   5215.000   1510.000   5520.000      .000      .000      .000      .000      .000      .000

X1      1.912      8.000   4990.000   5250.000    520.000    590.000    560.000      .000      .000      .000
X2    150.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1512.000   4500.000   1510.500   4820.000   1508.000   4990.000   1507.500   5000.000   1508.000   5010.000
GR   1512.000   5290.000   1514.000   5520.000   1514.500   5730.000      .000      .000      .000      .000

X1      2.002      7.000   6250.000   6400.000    490.000    560.000    460.000      .000      .000      .000
GR   1514.000   5970.000   1512.000   6250.000   1511.500   6270.000   1512.000   6300.000   1514.000   6400.000
GR   1514.500   6540.000   1516.000   6600.000      .000      .000      .000      .000      .000      .000

X1      2.100      5.000   5960.000   6020.000    650.000    540.000    520.000      .000      .000      .000
GR   1517.000   5960.000   1516.000   5975.000   1514.000   6000.000   1515.000   6020.000   1518.000   6190.000

X1      2.145      8.000   5230.000   5610.000    540.000    530.000    520.000      .000      .000      .000
X2    152.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1518.000   5230.000   1517.000   5315.000   1519.000   5380.000   1515.000   5420.000   1516.500   5540.000
GR   1518.000   5610.000   1517.000   5790.000   1520.000   5905.000      .000      .000      .000      .000
EJ       .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ICRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=    .100 CEHV=    .300
*SECNO  .000
      .00     4.93  1457.93      .00  1457.93  1457.98      .05      .00      .00  1457.50
   12400.       3.     2923.    9468.       9.     1801.    9274.       0.       0.  1455.50
      .00      .38     1.63     1.80     .090     .090     .090     .000  1453.00  4568.71
  .004019       0.       0.       0.        0        0        0      .00  3817.39  8486.18
0
FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1457.93

STA=    4669.    4710.    5640.    5705.    6030.    6345.    6758.    6952.    7085.    7100.    7204.    7380.    7595.
  PER Q=      .0     23.6      4.8      4.7      4.3      3.1      9.0      4.7      7.4      7.7      8.9      4.5
   AREA=     8.9   1801.2    337.9    394.8    416.7    369.4    568.4    216.8    360.1    382.7    498.5    381.4
    VEL=      .4      1.6      1.8      1.5      1.3      1.0      2.1      2.7      2.6      2.5      2.2      1.5
STA=    7595.    7885.    8182.    8486.
  PER Q=     7.3      6.0      3.1
   AREA=   559.7    499.0    288.7
    VEL=     1.6      1.5      1.3

*SECNO  .114
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    6200.     568.    5632.       0.     513.    3746.       0.      82.      42.   1460.50
      .12     1.11     1.90      .00     .090     .090     .090     .000  1456.00  4242.16
  .002930     570.     600.     630.        1        0        0      .70  2116.40  6358.56
0
 FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1460.14

 STA=    4242.    4640.    6410.
   PER Q=      9.2     90.8
   AREA=     513.4   3747.8
    VEL=       1.1      1.5

 *SECNO  .201
      .20     2.73  1462.23      .00      .00  1462.29      .06     2.11      .01  1460.00
    6200.    2763.    3436.       1.    1267.    1961.       3.     121.      55.   1462.00
      .19     2.18     1.75      .33     .090     .090     .090     .000  1459.50  7102.42
  .007053     560.     460.     460.        3        0        0      .00  2089.58  9192.00
0
1
 04/28/98    10:07:17                                                                          PAGE    5


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    INITIAL  IDC      IDCNT    CDROP    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=       .21          CWSEL=   1462.23

 STA=    7102.    7125.    7300.    7610.    7700.    7770.    9170.    9192.
   PER Q=      .0      5.5     26.4     6.3      6.3     55.4      .0
   AREA=      2.6    215.5    691.8   170.3    170.3  1900.8     2.5
    VEL=       .3      1.6      2.4      2.2      2.2      1.8      .3

 *SECNO  .402

 3265 DIVIDED FLOW

      .40     3.28  1467.78      .00      .00  1467.84      .07     5.55      .00  1465.00
    6200.     780.    4015.    1405.     487.    1759.     940.     196.     110.   1465.00
      .33     1.60     2.28     1.50     .090     .090     .090     .070  1464.50  4342.32
  .004353     950.    1030.    1110.        4        0        0      .00  1720.81  6334.80
0
 FLOW DISTRIBUTION FOR SECNO=       .40          CWSEL=   1467.78

 STA=    4342.    4430.    4580.    4720.    5300.    5540.    5914.    6280.    6335.
   PER Q=      .1      2.8      9.7     64.8     16.7      5.4      .3      .2
   AREA=     12.4    154.9    319.6   1759.0    547.9    333.7     36.8    21.4
    VEL=       .3      1.1      1.9      2.3      1.9      1.0      .6      .6

 *SECNO  .534
      .53     3.61  1469.61      .00      .00  1469.61      .00     1.76      .01  1468.00
     140.      23.      92.      24.     234.     641.     209.     229.     128.   1467.50
     1.74      .10      .14      .12     .090     .090     .090     .000  1465.00  4609.05
  .000022     560.     670.     750.        2        0        0      .00   576.12  5285.17
0
 FLOW DISTRIBUTION FOR SECNO=       .53          CWSEL=   1469.61

 STA=    4609.    4750.    4825.    5130.    5210.    5285.
   PER Q=      6.2     10.4     66.0     14.1      3.3
   AREA=     113.5    120.8    641.3    148.9     60.5
    VEL=       .1       .1       .1       .1       .1

 *SECNO  .663
      .66     1.65  1469.65      .00      .00  1469.67      .02      .05      .01  1472.00
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     1.91      .00     1.07      .00     .000     .000     .000     .000  1461.00  4091.99
   .004230    650.     680.     680.        2        0        0      .00   157.85  5049.85
0
1
  04/29/88    10:07:17                                                                          PAGE    6

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


  FLOW DISTRIBUTION FOR SECNO=       .66          CWSEL=   1469.65

  STA=    4892.    5120.
    PER Q=    100.0
     AREA=    131.1
      VEL=      1.1

  *SECNO  .796
      .00     1.45  1474.45      .00      .00  1474.50      .05     4.82      .01  1476.00
     140.       0.     140.       0.       0.      62.       0.     241.     137.  1476.00
     2.03      .00     1.71      .00     .000     .000     .000     .000  1473.00  4939.62
   .013139    690.     700.     710.        3        0        0      .00   113.14  5052.96
0
  FLOW DISTRIBUTION FOR SECNO=       .97          CWSEL=   1474.45

  STA=    4940.    5110.
    PER Q=    100.0
     AREA=     81.7
      VEL=      1.7

  *SECNO  .919
      .92     1.53  1477.03      .00      .00  1477.04      .01     2.54      .02  1480.00
     140.       0.     132.       8.       0.     163.      17.     243.     139.  1476.00
     2.26      .00      .81      .51     .000     .000     .000     .000  1475.50  4865.55
   .001842    640.     650.     650.        4        0        0      .00   191.60  5057.16
0
  FLOW DISTRIBUTION FOR SECNO=       .92          CWSEL=   1477.03

  STA=    4866.    5025.    5057.
    PER Q=     94.0      6.0
     AREA=    162.8     16.5
      VEL=       .3       .5

  CCHV=    .300 CEHV=    .500
  *SECNO  .976

  3235 SLOPE TOO STEEP,EXCEEDS       .10

  3685 20 TRIALS ATTEMPTED WSEL,CWSEL
  3693 PROBABLE MINIMUM SPECIFIC ENERGY
  3720 CRITICAL DEPTH ASSUMED
1
  04/29/88    10:07:17                                                                          PAGE    7

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


      .98      .86  1482.36  1482.36      .00  1482.62      .26     1.72      .12  1482.00
     140.       0.     136.       0.        7       77        0     247.     [illegible]  1486.00
```

```
      2.28      1.88      4.15       .00      .000      .000      .000      .000   1481.50   4931.97
   .100181      210.      300.      300.        20        11         0       .00     73.19   5005.16
0
 FLOW DISTRIBUTION FOR SECNO=        .92          CWSEL=   1482.36

 STA=    4932.     4950.     5100.
   PER Q=       4.3      95.7
    AREA=       3.3      32.8
     VEL=       1.9       4.1

 CCHV=    .100 CEHV=    .300
 *SECNO 1.046
      1.05      1.01   1484.01       .00       .00   1484.02       .00      1.37       .03   1484.00
     142.        0.      111.       31.        0.      209.       78.      345.      143.   1483.00
      2.50       .21       .48       .40      .000      .000      .000      .000   1483.00   4897.82
   .001107      350.      370.      450.         5         0         0       .00    484.31   5382.12
0
 FLOW DISTRIBUTION FOR SECNO=       1.05          CWSEL=   1484.01

 STA=    4898.     5230.     5380.
   PER Q=      78.1      21.9
    AREA=     220.9      77.9
     VEL=        .5        .4

 *SECNO 1.133
      1.13       .32   1485.32       .00       .00   1485.35       .03      1.33       .01   1486.00
     142.        0.      142.        0.        0.      101.        0.      247.      147.   1486.00
      2.59       .00      1.41       .00      .000      .000      .000      .000   1484.50   4962.02
   .019310      450.      460.      460.         2         0         0       .00    251.29   5213.31
0
 FLOW DISTRIBUTION FOR SECNO=       1.13          CWSEL=   1485.32

 STA=    4962.     5350.
   PER Q=     100.0
    AREA=     101.0
     VEL=       1.4

1
 04/29/88    10:07:17                                                                          PAGE    8


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        DLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       ANOB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICCNT     CORAR     TOPWID      ENDST


 *SECNO 1.207
      1.21      1.13   1487.68       .00       .00   1487.69       .01      2.34       .00   1487.50
     142.        1.      141.        0.        3.      187.        0.      248.      149.   1488.00
      2.74       .20       .76       .00      .000      .000      .000      .000   1486.50   4899.12
   .002880      390.      390.      400.         4         0         0       .00    312.68   5211.80
0
 FLOW DISTRIBUTION FOR SECNO=       1.21          CWSEL=   1487.68

 STA=    4899.     4930.     5250.
   PER Q=        .4      99.6
    AREA=       2.8     186.7
     VEL=        .2        .8

 *SECNO 1.285

 3265 DIVIDED FLOW

      1.28       .75   1489.75       .00       .00   1489.77       .02      2.07       .00   1490.00
```

```
      2.85      .00      1.02      1.02      .000      .000      .000      .000  1489.00  4932.54
   .011116     410.      410.      410.         4         0         0       .00   372.26  5402.49
0
 FLOW DISTRIBUTION FOR SECNO=      1.28          CWSEL=   1489.75

 STA=    4933.     5110.     5390.     5402.
   PER Q=      40.3      56.4       3.4
    AREA=      56.2      78.5       4.7
     VEL=       1.0       1.0       1.0

 *SECNO 1.393
      1.39      1.67  1493.17       .00       .00  1493.18       .02      3.42       .00  1492.50
      145.       13.      132.        0.       23.      114.        0.      252.      156.   1494.10
      2.99       .54      1.16       .00      .000      .000      .000      .000  1491.50  4859.86
   .003777      570.      570.      570.         5         0         0       .00   182.19  5042.05
0
 FLOW DISTRIBUTION FOR SECNO=      1.39          CWSEL=   1493.17

 STA=    4860.     4930.     5060.
   PER Q=       8.6      91.4
    AREA=      23.1     114.4
     VEL=        .5       1.2

1
  04/28/00    10:07:17                                                                          PAGE    9


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     I"RIAL    IDC       IOCNT     CORAR     TOPWID      ENDST


 *SECNO 1.476

 3265 DIVIDED FLOW

      1.48      1.37  1495.37       .00       .00  1495.39       .02      2.20       .00  1496.00
      145.        0.      138.        7.        0.      114.       15.      252.      158.   1496.00
      3.10       .00      1.20       .50      .000      .000      .000      .000  1494.00  4914.61
   .006982      420.      440.      440.         4         0         0       .00   247.93  5270.28
0
 FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1495.37

 STA=    4915.     5120.     5230.     5270.
   PER Q=      94.9       2.5       2.5
    AREA=     114.3       7.4       7.4
     VEL=       1.2        .5        .5

 *SECNO 1.592
      1.59      1.59  1499.09       .00       .00  1499.12       .02      3.73       .00  1499.00
      145.        0.      145.        0.        0.      122.        0.      259.      161.   1501.00
      3.24       .18      1.19       .00      .000      .000      .000      .000  1497.50  4933.44
   .005392      610.      610.      610.         5         0         0       .00   155.81  5089.25
0
 FLOW DISTRIBUTION FOR SECNO=      1.59          CWSEL=   1499.09

 STA=    4933.     4940.     5250.
   PER Q=        .0     100.0
    AREA=        .3     121.7
     VEL=        .2       1.2

 *SECNO 1.702
      1.70      1.55  1502.05       .00       .00  1502.07       .02      2.95       .00  1504.00
      145.        0.      145.        0.        0.      134.        0.      256.      163.   1504.00
      2.20       .02      1.00       .00      .000      .000      .000      .000  1500.50  4926.39
```

```
  .004806    580.     580.     580.       3        0        0      .00   172.53  5897.32
2
 FLOW DISTRIBUTION FOR SECNO=      1.70          CWSEL=   1502.05

 STA=    4925.    5220.
   PER Q=    100.0
    AREA=    133.6
     VEL=      1.1

1
 04/28/88    10:07:17                                                                          PAGE   10

    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 *SECNO 1.806
      1.81     1.91  1504.91      .00      .00  1504.93      .03     2.86      .00  1504.00
      145.      21.     124.       0.      26.      91.       0.     258.     165.   1508.00
      3.51      .83     1.36      .00     .000     .000     .000     .000  1503.00  4913.13
  .005680     540.     550.     560.        4        0        0      .00   151.23  5064.36
0
 FLOW DISTRIBUTION FOR SECNO=      1.81          CWSEL=   1504.91

 STA=    4913.    4970.    5215.
   PER Q=     14.8     85.2
    AREA=     25.9     90.7
     VEL=       .9      1.4

 *SECNO 1.912
      1.91     1.59  1509.08      .00      .00  1509.11      .03     4.19      .00  1508.00
      150.      49.     101.       0.      39.      67.       0.     259.     167.   1512.00
      3.61     1.26     1.51      .00     .000     .000     .000     .000  1507.50  4916.93
  .010536     520.     560.     590.        4        0        0      .00   163.17  5085.16
0
 FLOW DISTRIBUTION FOR SECNO=      1.91          CWSEL=   1509.08

 STA=    4917.    4990.    5290.
   PER Q=     32.9     67.1
    AREA=     39.2     66.8
     VEL=      1.3      1.5

 *SECNO 2.002
      2.00     1.41  1512.91      .00      .00  1512.93      .02     3.82      .00  1512.00
      150.      50.     100.       0.      58.      79.       0.     261.     169.   1514.00
      3.73      .86     1.28      .00     .000     .000     .000     .000  1511.50  6122.83
  .006135     490.     480.     560.        5        0        0      .00   222.58  6345.42
0
 FLOW DISTRIBUTION FOR SECNO=      2.00          CWSEL=   1512.91

 STA=    6123.    6250.    6400.
   PER Q=     33.1     66.9
    AREA=     57.8     78.5
     VEL=       .9      1.3

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
```

```
*SECNO 2.100
     2.10     2.53  1516.55      .00      .00  1516.61      .06     3.67      .01  1517.00
     150.       0.     141.       9.       0.     72.       13.     262.     172.   1516.00
     3.81      .00     1.96      .68     .080     .080     .080     .000  1514.00  5966.76
  .007503     650.     520.     540.        3        0        0      .00    93.94  6066.70
0
FLOW DISTRIBUTION FOR SECNO=      2.10          CWSEL=   1516.55

STA=    5967.    6020.    6067.
  PER Q=     94.2      5.8
   AREA=     72.0     12.8
    VEL=      2.0       .7

*SECNO 2.145

3265 DIVIDED FLOW

     2.14     1.69  1517.69      .00      .00  1517.69      .00     1.08      .01  1518.00
     152.       0.     137.      15.       0.     254.      53.     264.     175.   1518.00
     4.09      .00      .54      .28     .080     .080     .080     .000  1516.00  5255.99
  .000360     540.     520.     530.        3        0        0      .00   431.46  5816.61
0
FLOW DISTRIBUTION FOR SECNO=      2.14          CWSEL=   1517.69

STA=    5256.    5610.    5790.    5817.
  PER Q=     90.2      8.1      1.7
   AREA=    254.0     43.4      9.2
    VEL=       .5       .3       .3


PROFILE FOR STREAM  CAP OVERCHUTE 4 - IOWA W


PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


ELEVATION  1450.     1460.     1470.     1480.     1490.     1500.     1510.     1520.     1530.     1540.
    SECNO   CUMDIS

     .00      0.  C  I  R E M        .         .         .         .         .         .         .         .         .
            100.  C   I R E M        .         .         .         .         .         .         .         .         .
            200.  C   I  RLEM        .         .         .         .         .         .         .         .         .
            300.  C    I  LE.M       .         .         .         .         .         .         .         .         .
            400.  C    I  LE.M       .         .         .         .         .         .         .         .         .
            500.  C     I L EM       .         .         .         .         .         .         .         .         .
     .11    600.  C     I L ER       .         .         .         .         .         .         .         .         .
            700.  C      IL .EM      .         .         .         .         .         .         .         .         .
            800.  C       IL.EM      .         .         .         .         .         .         .         .         .
            900.  C       IL.WEM     .         .         .         .         .         .         .         .         .
           1000.  C        IL E M    .         .         .         .         .         .         .         .         .
     .20   1100.  C         I E M    .         .         .         .         .         .         .         .         .
           1200.  C         I REM    .         .         .         .         .         .         .         .         .
           1300.  C         IL E M   .         .         .         .         .         .         .         .         .
           1400.  C         .I REM   .         .         .         .         .         .         .         .         .
           1500.  C         .ILRE M  .         .         .         .         .         .         .         .         .
           1600.  C         . IR EM  .         .         .         .         .         .         .         .         .
           1700.  C         . ILRWEM .         .         .         .         .         .         .         .         .
           1800.  C         .  IR EM .         .         .         .         .         .         .         .         .
           1900.  C         .  IL  EM .        .         .         .         .         .         .         .         .
           2000.  C         .   IR EM .        .         .         .         .         .         .         .         .
     .40   2100.  C         .    I  EM.        .         .         .         .         .         .         .         .
           2200.  C         .    I  EM.        .         .         .         .         .         .         .         .
           2300.  C         .    IL E M        .         .         .         .         .         .         .         .
```

```
     2400. C        .  IL  EM        .         .         .         .         .         .         .         .
     2500. C        .  IRL E.M       .         .         .         .         .         .         .         .
     2600. C        .   IL E.M       .         .         .         .         .         .         .         .
     2700. C        .   IRLE. M      .         .         .         .         .         .         .         .
 .53 2800. C        .   I L E M      .         .         .         .         .         .         .         .
     2900. C        .   I RLE M      .         .         .         .         .         .         .         .
     3000. C        .    I LE  M     .         .         .         .         .         .         .         .
     3100. C        .    I RE  M     .         .         .         .         .         .         .         .
     3200. C        .    I  E  M     .         .         .         .         .         .         .         .
     3300. C        .    I  EL M     .         .         .         .         .         .         .         .
     3400. C        .     I ERL M    .         .         .         .         .         .         .         .
 .66 3500. C        .     I E L M    .         .         .         .         .         .         .         .
     3600. C        .      IE  L M   .         .         .         .         .         .         .         .
     3700. C        .      I.E L  M  .         .         .         .         .         .         .         .
     3800. C        .       I E L  M .         .         .         .         .         .         .         .
     3900. C        .       .IE L  M .         .         .         .         .         .         .         .
     4000. C        .       . IE L  M.         .         .         .         .         .         .         .
     4100. C        .       . I EL  M.         .         .         .         .         .         .         .
 .98 4200. C        .        . IWEL  M         .         .         .         .         .         .         .
     4300. C        .        . I ERL .M        .         .         .         .         .         .         .
     4400. C        .         IERL  .M         .         .         .         .         .         .         .
     4500. C        .        . I E L . M       .         .         .         .         .         .         .
     4600. C        .         IE L . M         .         .         .         .         .         .         .
     4700. C        .         IE  L. M         .         .         .         .         .         .         .
 .92 4800. C        .          IE  L  M        .         .         .         .         .         .         .
     4900. C        .           IE.L  M        .         .         .         .         .         .         .
     5000. C        .             IE  M        .         .         .         .         .         .         .
 .98 5100. .        .            . WERM        .         .         .         .         .         .         .
     5200. C        .            . IER M       .         .         .         .         .         .         .
     5300. C        .            . IE  M       .         .         .         .         .         .         .
     5400. C        .            .  IE  M      .         .         .         .         .         .         .
1.05 5500. C        .            .  IE  M.     .         .         .         .         .         .         .
     5600. C        .            .  IE  M.     .         .         .         .         .         .         .
     5700. C        .            .   IE  M.    .         .         .         .         .         .         .
     5800. C        .            .   IE  M.    .         .         .         .         .         .         .
     5900. C        .            .   IEL  M    .         .         .         .         .         .         .
1.13 6000. C        .            .    EL  M    .         .         .         .         .         .         .
     6100. C        .            .    IER  M   .         .         .         .         .         .         .
     6200. C        .            .     IE  .M  .         .         .         .         .         .         .
     6300. C        .            .     IER .M  .         .         .         .         .         .         .
1.21 6400. C        .            .      IE . M .         .         .         .         .         .         .
     6500. C        .            .      IE . M .         .         .         .         .         .         .
     6600. C        .            .       IE. M .         .         .         .         .         .         .
     6700. C        .            .       IE. M .         .         .         .         .         .         .
1.28 6800. C        .            .        IE M .         .         .         .         .         .         .
     6900. C        .            .        IERM .         .         .         .         .         .         .
     7000. C        .            .         IE M .         .         .         .         .         .         .
     7100. C        .            .         ILEM .         .         .         .         .         .         .
     7200. C        .            .         .IER .         .         .         .         .         .         .
1.39 7300. C        .            .         . IER .        .         .         .         .         .         .
     7400. C        .            .         . ILER .       .         .         .         .         .         .
     7500. C        .            .         .  IERM .      .         .         .         .         .         .
     7600. C        .            .         .  I E M .     .         .         .         .         .         .
     7700. C        .            .         .   IEL M .    .         .         .         .         .         .
1.48 7800. C        .            .         .   IEL  M.    .         .         .         .         .         .
     7900. C        .            .         .    IER M.    .         .         .         .         .         .
     8000. C        .            .         .    I ERM.    .         .         .         .         .         .
     8100. C        .            .         .     IER M    .         .         .         .         .         .
     8200. C        .            .         .     I ERM    .         .         .         .         .         .
     8300. C        .            .         .      IE RM   .         .         .         .         .         .
1.59 8400. C        .            .         .       IE.R   .         .         .         .         .         .
     8500. C        .            .         .       I E R  .         .         .         .         .         .
     8600. C        .            .         .        IELRM .         .         .         .         .         .
     8700. C        .            .         .        I.ELRM .        .         .         .         .         .
     8800. C        .            .         .         IELRM .        .         .         .         .         .
     8900. C        .            .         .         I ELRM
```

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 1.70  9000.  C     .     .     .     .     .IE L M  .     .     .     .     .
       9100.  C     .     .     .     .     .I ELR M .     .     .     .     .
       9200.  C     .     .     .     .     .I ELR M .     .     .     .     .
       9300.  C     .     .     .     .     . I E R M.     .     .     .     .
       9400.  C     .     .     .     .     . I E  R M.    .     .     .     .
 1.81  9500.  C     .     .     .     .     .  ILE  R M    .     .     .     .
       9600.  C     .     .     .     .     .   ILE  RM    .     .     .     .
       9700.  C     .     .     .     .     .    IE  RM    .     .     .     .
       9800.  C     .     .     .     .     .   ILE  RM    .     .     .     .
       9900.  C     .     .     .     .     .    ILE .R    .     .     .     .
      10000.  C     .     .     .     .     .     ILE. R   .     .     .     .
 1.91 10100.  C     .     .     .     .     .      IE. R   .     .     .     .
      10200.  C     .     .     .     .     .      ILE R   .     .     .     .
      10300.  C     .     .     .     .     .       ILE R  .     .     .     .
      10400.  C     .     .     .     .     .        IE R  .     .     .     .
      10500.  C     .     .     .     .     .        .IE R .     .     .     .
 2.00 10600.  C     .     .     .     .     .         . IER .     .     .     .
      10700.  C     .     .     .     .     .         . ILEM .    .     .     .
      10800.  C     .     .     .     .     .         . I ER .    .     .     .
      10900.  C     .     .     .     .     .          . I EM .   .     .     .
      11000.  C     .     .     .     .     .          . I  E .   .     .     .
 2.10 11100.  C     .     .     .     .     .           . I RE .  .     .     .
      11200.  C     .     .     .     .     .           . I RE .  .     .     .
      11300.  C     .     .     .     .     .            . I E .  .     .     .
      11400.  C     .     .     .     .     .            . I EL . .     .     .
      11500.  C     .     .     .     .     .             . IEL . .     .     .
 2.14 11600.  C     .     .     .     .     .             . I E . .     .     .
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1

THIS RUN EXECUTED 04/28/88 10:08:07

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 4 - IONA W

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
.000	12400.00	1457.93	4688.71	4710.00	5640.00	8486.10	.00	3817.39	4.93	1453.00	40.19	1.63
.114	6200.00	1460.14	4242.16	4640.00	6410.00	6358.56	2.21	2116.40	4.14	1456.00	29.30	1.50
.201	6200.00	1462.23	7102.42	7790.00	9170.00	9192.00	2.09	2089.58	2.73	1459.50	70.53	1.75
.402	6200.00	1467.79	4342.32	4720.00	5300.00	6334.00	5.59	1720.81	3.28	1464.50	43.53	2.28
.534	140.00	1469.61	4609.05	4825.00	5130.00	5285.17	1.83	676.12	3.61	1466.00	.22	.14
.663	140.00	1469.65	4891.99	4740.00	5120.00	5049.85	.04	157.85	1.65	1468.00	42.30	1.07
.796	140.00	1474.45	4929.82	4875.00	5110.00	5052.96	4.80	113.14	1.45	1473.00	131.29	1.71

.919	140.00	1477.03	4865.56	4755.00	5025.00	5057.16	2.57	191.60	1.53	1475.50	18.42	.81
* .976	142.00	1482.36	4931.97	4950.00	5100.00	5005.16	5.33	73.19	.86	1481.50	1001.81	4.15
1.046	142.00	1484.01	4897.82	4900.00	5230.00	5382.12	1.69	484.31	1.01	1483.00	11.07	.48
1.133	142.00	1485.32	4962.02	4880.00	5350.00	5213.31	1.31	251.29	.82	1484.50	193.10	1.41
1.207	142.00	1487.68	4899.12	4930.00	5250.00	5211.00	2.36	312.68	1.10	1486.50	28.80	.76
1.285	142.00	1489.75	4932.54	4910.00	5110.00	5402.49	2.07	372.28	.75	1489.00	111.16	1.02
1.393	145.00	1493.17	4859.86	4930.00	5060.00	5042.05	3.42	182.19	1.67	1491.30	37.77	1.16
1.476	145.00	1495.37	4914.61	4875.00	5120.00	5270.28	2.20	247.93	1.37	1494.00	69.82	1.20
1.592	145.00	1499.09	4933.44	4940.00	5250.00	5089.25	3.73	155.81	1.59	1497.50	53.92	1.19
1.702	145.00	1502.05	4924.79	4830.00	5220.00	5097.32	2.95	172.53	1.55	1500.50	48.06	1.09

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SECNO	Q	CWSEL	SGTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10X*S	VCH
1.806	145.00	1504.91	4913.13	4970.00	5215.00	5064.36	2.06	151.23	1.91	1503.00	56.00	1.36
1.912	150.00	1509.08	4916.99	4990.00	5290.00	5085.16	4.18	168.17	1.58	1507.50	105.36	1.51
2.002	150.00	1512.91	6122.03	6250.00	6400.00	6345.42	3.83	222.58	1.41	1511.50	61.35	1.28
2.100	150.00	1516.55	5965.76	5960.00	6020.00	6066.70	3.64	99.94	2.55	1514.00	75.03	1.96
2.145	152.00	1517.69	5255.99	5230.00	5610.00	5816.61	1.14	431.46	1.69	1516.00	9.60	.54

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SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION  SECNO=     .976  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .976  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .976  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=     .976  PROFILE= 1  SLOPE TOO STEEP
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THIS RUN EXECUTED 04/28/88 10:08:10

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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THIS RUN EXECUTED 04/28/88 10:12:52

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
**************************************************


T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS
T2      100 YEAR FLOOD EVENT
T3      CAP OVERCHUTE 4 - IONA WASH (EAST CHANNEL)

J1  ICHECK    INQ       NINV      IDIR      STRT     METRIC    HVINS     Q         WSEL      FQ

      0.        0.        0.        0.   .000000      .00       .5    12400.  1457.930     .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH      FN      ALLDC     IBW      CHNIM     ITRACE

    -1.000     .000      .000      .000      .000      .000      .000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.000    43.000     1.000    53.000    21.000    22.000    54.000    51.000     4.000     8.000


    42.000     5.000    26.000      .000      .000      .000      .000      .000      .000      .000


NC      .090      .090      .090      .100      .300      .000      .000      .000      .000      .000
X1      .000    51.000  4710.000  5640.000      .000      .000      .000      .000      .000      .000
X2  12400.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1460.200  4185.000  1460.000  4378.000  1459.000  4460.000  1458.000  4662.000  1457.500  4710.000
GR   1456.000  4835.000  1456.000  4880.000  1455.000  4965.000  1455.000  5000.000  1456.000  5020.000
GR   1456.000  5045.000  1455.000  5070.000  1456.000  5080.000  1456.500  5255.000  1456.000  5315.000
GR   1456.000  5340.000  1456.000  5375.000  1456.000  5410.000  1455.000  5420.000  1456.000  5440.000
GR   1456.000  5485.000  1455.500  5640.000  1456.000  5795.000  1456.500  6030.000  1456.500  6210.000
GR   1457.000  6345.000  1457.500  6488.000  1457.000  6640.000  1456.000  6758.000  1454.000  6952.000
GR   1454.000  6970.000  1454.000  6988.000  1453.000  7005.000  1454.000  7019.000  1454.500  7100.000
GR   1454.000  7204.000  1454.000  7222.000  1456.000  7368.000  1456.500  7485.000  1456.000  7585.000
GR   1456.000  7885.000  1456.500  8025.000  1456.000  8182.000  1454.000  8200.000  1456.000  8212.000
GR   1457.000  8288.000  1458.000  8501.000  1460.000  8771.000  1462.000  8995.000  1464.000  9218.000
GR   1466.000  9340.000     .000      .000      .000      .000      .000      .000      .000      .000

X1      .114    14.000  4640.000  6410.000   570.000   630.000   600.000      .000      .000      .000
X2  7900.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
GR   1461.000  4060.000  1460.000  4270.000  1457.500  4640.000  1456.500  5000.000  1457.500  5230.000
GR   1458.500  5685.000  1460.000  6020.000  1460.000  6040.000  1456.000  6120.000  1456.000  6145.000
GR   1458.000  6220.000  1460.000  6340.000  1460.500  6410.000  1464.000  6850.000     .000      .000
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X1	.201	7.000	4410.000	5230.000	360.000	460.000	460.000	.000	.000	.000
X2	4440.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1465.000	4060.000	1464.000	4160.000	1464.000	4410.000	1461.000	4660.000	1461.000	4860.000
GR	1460.500	5000.000	1464.000	5230.000	.000	.000	.000	.000	.000	.000
X1	.421	11.000	6250.000	7170.000	820.000	1340.000	1160.000	.000	.000	.000
GR	1470.000	5820.000	1468.000	6035.000	1468.000	6250.000	1467.000	6480.000	1468.000	6620.000
GR	1468.000	6720.000	1467.500	6910.000	1468.000	6960.000	1471.000	7170.000	1471.000	7495.000
GR	1472.000	7740.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.516	10.000	4370.000	5405.000	430.000	590.000	500.000	.000	.000	.000
GR	1473.500	4090.000	1472.000	4370.000	1470.500	4645.000	1470.500	4680.000	1471.000	4800.000
GR	1471.000	5000.000	1471.500	5230.000	1472.000	5405.000	1473.500	5575.000	1474.000	5850.000
X1	.636	12.000	4535.000	5325.000	560.000	700.000	635.000	.000	.000	.000
X2	4540.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1477.500	4355.000	1476.000	4535.000	1472.500	4620.000	1472.000	4690.000	1474.000	4930.000
GR	1473.000	5000.000	1472.000	5090.000	1476.000	5325.000	1476.000	5390.000	1476.000	5440.000
GR	1476.000	5525.000	1480.000	5810.000	.000	.000	.000	.000	.000	.000
NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	.752	9.000	4720.000	5290.000	560.000	640.000	610.000	.000	.000	.000
GR	1480.000	4520.000	1476.000	4720.000	1476.500	4790.000	1476.000	4865.000	1476.000	5000.000
GR	1477.000	5115.000	1478.500	5290.000	1480.000	5600.000	1482.500	5800.000	.000	.000
X1	.850	16.000	4500.000	5285.000	520.000	520.000	520.000	.000	.000	.000
GR	1482.500	4440.000	1482.000	4500.000	1479.000	4695.000	1480.000	4845.000	1480.000	4980.000
GR	1479.500	5000.000	1480.000	5020.000	1480.000	5040.000	1479.000	5080.000	1480.000	5110.000
GR	1480.500	5180.000	1480.000	5250.000	1480.000	5285.000	1484.000	5570.000	1485.000	5720.000
GR	1486.000	6030.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.956	7.000	4570.000	5180.000	600.000	540.000	560.000	.000	.000	.000
GR	1485.500	4400.000	1484.000	4570.000	1482.000	4765.000	1481.500	4820.000	1481.500	5000.000
GR	1481.000	5180.000	1485.000	5315.000	.000	.000	.000	.000	.000	.000
X1	1.056	11.000	4700.000	5265.000	600.000	500.000	530.000	.000	.000	.000
GR	1488.000	4320.000	1489.000	4420.000	1488.000	4520.000	1486.500	4704.000	1485.000	4810.000
GR	1484.000	5000.000	1487.000	5160.000	1488.000	5285.000	1488.000	5360.000	1488.000	5735.000
GR	1490.000	5990.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.147	17.000	4840.000	5330.000	530.000	440.000	420.000	.000	.000	.000
X2	4640.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1492.000	4230.000	1491.500	4260.000	1492.000	4375.000	1492.000	4560.000	1492.000	4615.000
GR	1488.500	4840.000	1488.000	4980.000	1487.500	5000.000	1488.000	5020.000	1488.000	5110.000
GR	1488.000	5170.000	1488.000	5195.000	1487.500	5210.000	1488.000	5230.000	1488.000	5330.000
GR	1491.000	5525.000	1492.000	5520.000	.000	.000	.000	.000	.000	.000
X1	1.230	13.000	4825.000	5350.000	530.000	360.000	440.000	.000	.000	.000
GR	1492.500	4700.000	1492.500	4700.000	1492.500	4700.000	1492.500	4700.000	1492.000	4745.000
GR	1490.000	4825.000	1488.500	4945.000	1489.500	5000.000	1490.000	5285.000	1491.000	5350.000
GR	1492.000	5445.000	1493.000	5560.000	1494.000	6040.000	.000	.000	.000	.000

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X1	1.310	13.000	4800.000	5300.000	470.000	390.000	420.000	.000	.000	.000
GR	1500.000	3630.000	1499.500	4200.000	1497.500	4240.000	1496.000	4610.000	1492.000	4800.000
GR	1491.000	4840.000	1492.000	4850.000	1493.000	4940.000	1492.000	5000.000	1493.000	5190.000
GR	1492.500	5300.000	1492.500	5460.000	1496.000	5855.000	.000	.000	.000	.000
X1	1.393	14.000	4855.000	5350.000	550.000	320.000	440.000	.000	.000	.000
GR	1504.000	3650.000	1500.000	4220.000	1496.000	4555.000	1495.500	4710.000	1496.000	4855.000
GR	1496.000	4980.000	1494.000	5000.000	1496.000	5020.000	1496.000	5130.000	1496.000	5215.000
GR	1496.500	5350.000	1496.000	5510.000	1496.000	5530.000	1497.700	5810.000	.000	.000

X1	1.480	10.000	4700.000	5190.000	430.000	440.000	450.000	.000	.000	.000
X2	4740.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1504.000	3340.000	1500.000	4000.000	1499.000	4210.000	1497.500	4470.000	1498.000	4700.000
GR	1496.000	4980.000	1495.500	5000.000	1496.000	5020.000	1499.500	5150.000	1499.600	5530.000
X1	1.577	13.000	4820.000	5210.000	400.000	600.000	510.000	.000	.000	.000
GR	1505.000	4160.000	1502.000	4160.000	1502.000	4160.000	1502.000	4160.000	1500.000	4275.000
GR	1499.000	4350.000	1500.000	4720.000	1501.000	4820.000	1503.000	4980.000	1500.000	5000.000
GR	1500.000	5020.000	1502.000	5210.000	1504.000	5600.000	.000	.000	.000	.000
X1	1.664	9.000	4965.000	5080.000	370.000	510.000	450.000	.000	.000	.000
GR	1505.000	3985.000	1504.000	4070.000	1501.000	4440.000	1502.500	4655.000	1503.500	4965.000
GR	1501.000	5000.000	1502.500	5100.000	1504.000	5210.000	1506.500	5370.000	.000	.000
X1	1.747	16.000	4910.000	5100.000	320.000	500.000	440.000	.000	.000	.000
GR	1506.300	3960.000	1504.000	4090.000	1504.000	4185.000	1504.000	4300.000	1504.000	4430.000
GR	1504.000	4575.000	1503.500	4615.000	1504.000	4655.000	1505.500	4910.000	1504.000	4975.000
GR	1503.000	5000.000	1504.000	5020.000	1504.000	5100.000	1504.500	5175.000	1508.000	5300.000
GR	1509.500	5440.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.826	14.000	4955.000	5050.000	350.000	450.000	420.000	.000	.000	.000
X2	4830.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1503.000	3875.000	1508.000	3960.000	1507.500	4170.000	1506.000	4450.000	1508.000	4550.000
GR	1508.000	4670.000	1506.000	4770.000	1507.000	4955.000	1505.000	5000.000	1508.000	5050.000
GR	1507.000	5240.000	1507.000	5270.000	1508.000	5355.000	1512.000	5570.000	.000	.000
X1	1.921	11.000	4970.000	5200.000	450.000	460.000	500.000	.000	.000	.000
GR	1511.500	4265.000	1510.500	4475.000	1511.000	4760.000	1508.000	4970.000	1507.500	5000.000
GR	1508.000	5020.000	1510.000	5200.000	1509.000	5400.000	1508.500	5565.000	1512.000	5740.000
GR	1514.000	5970.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.035	15.000	4860.000	5205.000	600.000	500.000	600.000	.000	.000	.000
GR	1517.000	4160.000	1516.000	4250.000	1512.000	4710.000	1512.000	4750.000	1513.000	4860.000
GR	1512.000	4920.000	1512.000	4975.000	1510.000	5000.000	1512.000	5020.000	1513.000	5090.000
GR	1514.000	5205.000	1512.000	5540.000	1512.000	5620.000	1513.000	5770.000	1517.000	5960.000
X1	2.145	11.000	4840.000	5190.000	540.000	600.000	530.000	.000	.000	.000
X2	4920.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1519.000	3930.000	1518.000	4110.000	1516.000	4260.000	1515.000	4440.000	1516.000	4640.000
GR	1516.000	4840.000	1514.000	4870.000	1513.000	5000.000	1516.000	5025.000	1517.500	5100.000
GR	1518.000	5230.000	.000	.000	.000	.000	.000	.000	.000	.000

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X1	2.296	15.000	4960.000	5165.000	550.000	700.000	800.000	.000	.000	.000
X2	5080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1521.700	3830.000	1520.000	4090.000	1518.000	4160.000	1518.500	4290.000	1520.000	4570.000
GR	1521.000	4795.000	1521.000	4960.000	1520.000	4980.000	1519.000	5000.000	1520.000	5015.000
GR	1520.000	5060.000	1519.000	5065.000	1520.000	5110.000	1521.000	5165.000	1522.000	5745.000
NC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.412	14.000	4900.000	5085.000	550.000	550.000	610.000	.000	.000	.000
X2	5130.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1525.500	3780.000	1524.000	3860.000	1523.000	4000.000	1524.000	4140.000	1524.000	4220.000
GR	1522.500	4510.000	1524.000	4790.000	1524.000	4900.000	1522.000	5000.000	1524.000	5085.000
GR	1524.500	5160.000	1524.000	5240.000	1524.000	5370.000	1526.000	5600.000	.000	.000
X1	2.525	12.000	4770.000	5080.000	720.000	520.000	600.000	.000	.000	.000
X2	5130.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1528.500	4200.000	1528.500	4200.000	1528.500	4200.000	1528.000	4550.000	1526.500	4770.000
GR	1524.000	4980.000	1523.500	5000.000	1524.000	5020.000	1527.000	5080.000	1528.000	5190.000
GR	1528.000	5285.000	1530.000	5570.000	.000	.000	.000	.000	.000	.000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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 X2   5180.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1533.000   4385.000   1532.000   4530.000   1532.000   4660.000   1531.000   4870.000   1528.000   4980.000
 GR   1527.000   5000.000   1528.000   5020.000   1531.000   5180.000   1532.000   5250.000   1533.000   5420.000

 X1      2.762      7.000   4960.000   5020.000    720.000    720.000    720.000      .000      .000      .000
 X2   5180.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1538.500   4520.000   1536.000   4770.000   1532.000   4960.000   1530.000   5000.000   1532.000   5020.000
 GR   1536.000   5255.000   1537.500   5370.000      .000      .000      .000      .000      .000      .000

 X1      2.843      8.000   4880.000   5135.000    430.000    430.000    430.000      .000      .000      .000
 X2   5230.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1541.500   4430.000   1540.000   4670.000   1536.000   4880.000   1533.000   5000.000   1536.000   5040.000
 GR   1538.000   5135.000   1540.000   5240.000   1541.000   5360.000      .000      .000      .000      .000

 X1      2.942     13.000   4930.000   5145.000    580.000    450.000    520.000      .000      .000      .000
 X2   5230.000      .000      .000      .000      .000      .000      .000      .000      .000      .000
 GR   1545.000   4245.000   1544.000   4585.000   1540.000   4750.000   1536.000   4930.000   1535.000   5000.000
 GR   1536.000   5045.000   1540.000   5145.000   1539.500   5210.000   1540.000   5310.000   1543.000   5405.000
 GR   1542.500   5620.000   1542.000   5860.000   1543.500   6180.000      .000      .000      .000      .000

 X1      3.027     11.000   4960.000   5155.000    450.000    370.000    430.000      .000      .000      .000
 GR   1548.000   3810.000   1544.000   4110.000   1540.000   4580.000   1540.000   4655.000   1542.000   4770.000
 GR   1540.000   4980.000   1540.000   4960.000   1539.000   5000.000   1540.000   5040.000   1544.000   5155.000
 GR   1546.000   5240.000      .000      .000      .000      .000      .000      .000      .000      .000
 EJ      .000      .000      .000      .000      .000      .000      .000      .000      .000      .000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       SLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELXIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    COARA    TOPWID    ENDST


  *PROF 1

  CCHV=    .100 CEHV=    .300
  *SECNO  .000
       .00     4.93  1457.93      .00  1457.93  1457.98      .05      .00      .00  1457.50
    12400.       3.     2929.    9468.       9.    1801.    5274.       0.       0.   1455.50
       .00      .33     1.63     1.80     .030     .030     .030     .020  1451.00  4668.71
   .004019       0.       0.       0.        0        0        0      .00  3817.39  8486.10
0
  FLOW DISTRIBUTION FOR SECNO=       .00          CWSEL=   1457.93

  STA=    4669.    4710.    5640.    5795.    6030.    6343.    6758.    6953.    7005.    7100.    7204.    7368.    7595.
    PER Q=      .0     23.6      4.9      4.7      4.3      3.1      9.8      4.7      7.4      7.7      8.9      4.5
     AREA=     8.9   1801.2    337.9    354.8    416.7    369.4    568.4    216.8    360.1    382.7    498.5    381.4
      VEL=      .4      1.6      1.8      1.5      1.3      1.0      2.1      2.7      2.6      2.5      2.2      1.5
  STA=    7595.    7885.    8182.    8485.
    PER Q=     7.3      6.0      3.1
     AREA=   559.7    493.0    288.7
      VEL=     1.6      1.5      1.3

  *SECNO  .114
       .11     4.30  1460.30      .00      .00  1460.35      .05     2.37      .00  1457.50
     7900.     779.     7121.       0.     586.     4051.       0.      82.      42.   1460.50
       .10     1.33     1.76      .00     .030     .030     .030     .000  1456.00  4205.38
   .003682     570.     600.     630.        2        0        0      .00  2177.71  6383.08
0
  FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1460.30

  STA=    4205.    4270.    4640.    6410.
    PER Q=      .0      9.8     90.1
```

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    VEL=      .3      1.3      1.8

 *SECNO  .201
      .20     2.55  1463.06      .00      .00  1463.30      .24     2.90      .06  1464.00
     4440.      0.     4440.      0.       0.    1129.       0.     113.      58.   1464.00
      .13      .00     3.93      .00     .090     .090     .090     .000  1460.50  4488.16
  .028870     560.     460.     460.        3        0        0      .00   680.21  5168.37
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

 FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1463.06

 STA=    4488.    5230.
   PER Q=    100.0
    AREA=   1129.0
     VEL=      3.9

 *SECNO  .421
      .42     3.42  1470.42      .00      .00  1470.46      .04     7.14      .02  1468.00
     4440.    1029.    3411.      0.      746.    2170.       0.     164.      32.   1471.00
      .34     1.33     1.57      .00     .090     .090     .090     .000  1467.00  5849.02
  .002719     820.     1160.    1340.        5        0        0      .00  1283.53  7129.55
0
 FLOW DISTRIBUTION FOR SECNO=       .42          CWSEL=   1470.42

 STA=    5849.    6035.    6250.    7170.
   PER Q=      5.0     18.2     76.8
    AREA=    225.2    520.8   2170.0
     VEL=      1.0      1.6      1.6

 *SECNO  .516
      .52     2.33  1472.33      .00      .00  1472.35      .10     2.47      .02  1472.00
     4440.      69.    4329.      42.      67.    1702.      41.     191.      97.   1472.00
      .39     1.03     2.54     1.03     .090     .090     .090     .000  1470.50  4211.79
  .012221     430.     500.     590.        3        0        0      .00  1283.26  5501.05
0
 FLOW DISTRIBUTION FOR SECNO=       .52          CWSEL=   1472.33

 STA=    4212.    4370.    5405.    5571.
   PER Q=      1.6     97.5      .9
    AREA=     67.0   1702.2     40.7
     VEL=      1.0      2.5      1.0

 *SECNO  .636
      .64     4.39  1476.39      .00      .00  1476.44      .06     3.50      .00  1476.00
     4540.       3.    4497.      40.       9.    2348.      83.     222.     114.   1476.00
      .48      .31     1.92      .48     .090     .090     .090     .000  1472.00  4488.48
  .003152     560.     635.     700.        5        0        0      .00  1364.15  5552.62
0
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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 FLOW DISTRIBUTION FOR SECNO=       .64          CWSEL=   1476.39

 STA=    4498.    4535.    5325.    5390.    5440.    5525.    5553.
   PER Q=       .1      99.1       .3       .2       .4       .0
    AREA=      9.0    2347.5     25.2     19.4     33.0      5.4
     VEL=       .3       1.9       .5       .5       .5       .3

 *SECNO  .752
      .75     2.77  1478.77      .00      .00  1478.96      .19     2.48      .04  1476.00
    4540.     328.    4209.       3.     192.    1180.       8.     242.     127.  1478.50
      .53     1.71     3.57      .36     .080     .050     .080     .000  1476.00  4581.36
  .005454     560.     610.     640.        3        0        0      .00   764.99  5346.36
0
 FLOW DISTRIBUTION FOR SECNO=       .75          CWSEL=   1478.77

 STA=    4581.    4720.    5290.    5346.
   PER Q=      7.2     92.7       .1
    AREA=    192.2   1180.4      7.7
     VEL=      1.7      3.6       .4

 *SECNO  .850
      .85     2.72  1481.72      .00      .00  1481.88      .16     2.92      .00  1482.00
    4540.       0.    4405.     135.       0.    1342.     106.     265.     137.  1480.00
      .59      .00     3.28     1.28     .080     .050     .080     .000  1479.00  4518.03
  .005790     520.     520.     520.        2        0        0      .00   883.60  5407.68
0
 FLOW DISTRIBUTION FOR SECNO=       .85          CWSEL=   1481.72

 STA=    4518.    5285.    5408.
   PER Q=     97.0      3.0
    AREA=   1341.6    105.6
     VEL=      3.3      1.3

 *SECNO  .956
      .96     3.23  1484.23      .00      .00  1484.37      .14     2.48      .00  1484.00
    4540.       1.    4275.     264.       3.    1397.     175.     285.     147.  1481.00
      .63      .25     3.06     1.51     .080     .050     .080     .000  1481.00  4545.19
  .003510     600.     560.     540.        3        0        0      .00   743.44  5288.64
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WEELK    EG       HV       HL       QLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1484.23

 STA=    4545.    4570.    5180.    5203.
   PER Q=       .0     94.2      5.8
    AREA=      2.7   1397.3    174.8
     VEL=       .3      3.1      1.5

 *SECNO 1.056
     1.06     3.14  1487.14      .00      .00  1487.51      .37     3.03      .07  1486.50
    4540.      23.    4517.       0.      25.     913.       0.     300.     155.  1488.00
      .66      .93     4.92      .00     .080     .050     .080     .000  1484.00  4823.02
  .011439     600.     530.     500.        2        0        0      .00   554.66  5177.63
0
 FLOW DISTRIBUTION FOR SECNO=      1.06          CWSEL=   1487.14

 STA=    4622.    4700.    5205.
```

```
   PER Q=      .5     99.5
    AREA=     24.7    918.8
     VEL=      .9      4.9

 *SECNO 1.147
      1.15     3.03  1490.59      .00      .00  1490.77      .19     3.24      .02  1488.50
     4640.      178.     4332.     130.     140.     1200.     122.     313.     168.   1489.00
       .70     1.23      3.61     1.06     .080      .050     .000     .000  1487.50  4706.03
   .004471     530.      480.     440.        2         0        0      .00   773.41  5484.44
0
 FLOW DISTRIBUTION FOR SECNO=      1.15          CWSEL=   1490.59

 STA=    4706.    4840.    5330.    5484.
   PER Q=      3.8     93.4      2.8
    AREA=    139.6   1199.9    122.3
     VEL=      1.3      3.6      1.1

 *SECNO 1.230
      1.23     3.79  1492.28      .00      .00  1492.44      .15     1.66      .00  1490.00
     4640.      129.     4444.      68.     106.     1302.      79.     329.     170.   1491.00
       .74     1.21      3.22      .86     .080      .050     .080     .000  1483.50  4719.62
   .003222     530.      440.     360.        3         0        0      .00   757.81  5477.43
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        SLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XML       XMCH      XMR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.23          CWSEL=   1492.28

 STA=    4720.    4745.    4825.    5350.    5445.    5477.
   PER Q=      .0      2.7     95.8      1.4      .0
    AREA=      3.6    102.6   1381.8     74.3     4.6
     VEL=      .3      1.2      3.2      .9      .3

 *SECNO 1.310
      1.31     3.25  1494.25      .00      .00  1494.44      .19     1.99      .01  1492.00
     4640.      215.     3494.     932.     121.     902.     456.     343.     178.   1492.50
       .77     1.77      3.87     2.04     .080      .050     .080     .000  1491.00  4692.71
   .007738     470.      420.     390.        2         0        0      .00   865.78  5658.49
0
 FLOW DISTRIBUTION FOR SECNO=      1.31          CWSEL=   1494.25

 STA=    4693.    4800.    5300.    5460.    5658.
   PER Q=      4.6     75.3     14.4      5.6
    AREA=    121.2   901.9    281.4    174.6
     VEL=      1.8      3.9      2.4      1.5

 *SECNO 1.393
      1.39     3.54  1497.54      .00      .00  1497.67      .12     3.22      .01  1496.00
     4640.     1365.     2572.     703.     638.     771.     434.     360.     190.   1496.50
       .82     2.14      3.34     1.62     .080      .050     .080     .000  1494.00  4425.68
   .006995     550.      440.     320.        4         0        0      .00  1358.64  5784.32
0
 FLOW DISTRIBUTION FOR SECNO=      1.39          CWSEL=   1497.54

 STA=    4426.    4585.    4710.    4853.    5350.    5510.    5530.    5784.
   PER Q=      2.8     13.7     12.9     55.4      0.2      1.4      5.5
    AREA=     99.8    278.1    260.1    770.6    207.1     30.9    196.3
     VEL=      1.3      2.3      2.3      3.3      1.8      2.1      1.3
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*SECNO 1.490
     1.48     4.09  1499.59      .00      .00  1499.70      .12     2.04      .00  1498.00
    4740.    1126.     3512.       2.     807.     1191.      13.      300.     204.   1499.50
      .95     1.39      3.03      .13     .080      .050     .080     .000  1495.50  4086.34
  .003187     430.      460.     440.        4         0        0      .00  1405.88  5492.22
0
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1499.59

STA=    4086.    4210.    4470.    4700.    5190.    5492.
  PER Q=      .4      9.4     14.0     76.2       .0
   AREA=    36.4    348.1    422.9   1191.0     13.4
    VEL=      .5      1.3      1.6      3.0       .1

*SECNO 1.577
     1.58     2.80  1501.80      .00      .00  1501.93      .12     2.32      .00  1501.00
    4740.    3433.     1307.       0.    1248.      435.       0.     399.     217.   1502.00
      .91     2.75      3.01      .00     .080      .050     .080     .000  1499.00  4171.38
  .008299     400.      510.     600.        2         0        0      .00  1013.82  5291.20
0
FLOW DISTRIBUTION FOR SECNO=      1.58          CWSEL=   1501.00

STA=    4171.    4275.    4350.    4720.    4820.    5210.
  PER Q=      3.1     10.7     53.0      5.5     27.6
   AREA=    93.4    172.7    851.8    120.2    434.7
    VEL=      1.6      3.0      3.0      2.0      3.0

*SECNO 1.664
     1.66     3.35  1504.35      .00      .00  1504.46      .10     2.52      .00  1503.50
    4740.    3452.     1084.     205.    1672.      282.     148.     416.     227.   1502.50
      .95     2.06      3.84     1.38     .080      .050     .080     .000  1501.00  4039.81
  .005057     370.      460.     510.        4         0        0      .00  1192.93  5232.73
0
FLOW DISTRIBUTION FOR SECNO=      1.66          CWSEL=   1504.35

STA=    4040.    4070.    4440.    4653.    4965.    5000.    5210.    5233.
  PER Q=      .0     28.9     29.6     14.3     22.9      4.3       .0
   AREA=     5.4    686.4    560.1    420.1    282.1    143.7      4.2
    VEL=      .4      2.0      2.5      1.6      3.8      1.4       .4

*SECNO 1.747
     1.75     3.10  1506.10      .00      .00  1506.18      .08     1.73      .00  1505.50
    4740.    3229.     1186.     316.    1684.      375.     186.     433.     237.   1504.00
     1.00     1.92      3.17     1.70     .080      .050     .080     .000  1503.00  3970.78
  .004593     320.      440.     500.        2         0        0      .00  1261.69  5232.47
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
```

```
 STA=    3971.    4090.    4185.    4300.    4430.    4575.    4615.    4655.    4910.    5170.    5175.    5232.
   PER Q=     3.5      8.8     10.6     12.0     13.4      4.4      4.4     11.3     25.0      5.6      1.1
    AREA=   125.7    200.4    242.6    274.2    305.8     94.4     94.4    346.6    374.5    139.4     46.2
     VEL=     1.3      2.1      2.1      2.1      2.1      2.2      2.2      1.5      3.2      1.9      1.1

 *SECNO 1.826
      1.83     3.45  1508.45      .00      .00  1508.59      .14     2.39      .02  1507.00
     4830.     3272.     1003.     555.    1374.     208.     303.     451.     248.  1508.00
      1.03     2.38     4.83     1.79     .080     .050     .080     .000  1505.00  3921.93
   .009341     350.     420.     450.        3        0        0      .00  1457.14  5379.07
0
 FLOW DISTRIBUTION FOR SECNO=      1.83          CWSEL=   1508.45

 STA=    3922.    3960.    4170.    4450.    4590.    4670.    4770.    4955.    5050.    5240.    5270.    5355.    5379.
   PER Q=      .1      4.3     25.1      9.6      .8      6.9     20.9     20.8      6.5      2.1      2.9      .1
    AREA=     8.5    146.6    475.4    202.7     35.8    144.8    360.4    207.5    180.1     43.4     80.6     5.4
     VEL=      .7      1.4      2.6      2.3      1.1      2.3      2.8      4.8      1.7      2.3      1.7      .7

 *SECNO 1.921
      1.92     3.79  1511.29      .00      .00  1511.41      .12     2.82      .00  1508.00
     4830.     835.     2126.    1869.     598.     500.     974.     472.     364.  1510.00
      1.09     1.40     3.60     1.92     .080     .050     .080     .000  1507.50  4308.35
   .004185     450.     500.     460.        4        0        0      .00  1395.33  5704.68
0
 FLOW DISTRIBUTION FOR SECNO=      1.92          CWSEL=   1511.29

 STA=    4308.    4475.    4760.    4970.    5200.    5400.    5565.    5705.
   PER Q=      .9      2.6     13.8     44.0     13.2     19.5      6.1
    AREA=    66.1    154.9    376.7    590.0    358.7    419.7    195.1
     VEL=      .6      .9      1.8      3.6      1.8      2.2      1.5

 *SECNO 2.035
      2.04     4.23  1514.25      .00      .00  1514.36      .11     2.93      .00  1513.00
     4830.     1072.     1970.    1788.     549.     585.     900.     500.     382.  1514.00
      1.15     1.95     3.37     1.99     .080     .050     .080     .000  1510.00  4473.46
   .006362     600.     600.     500.        4        0        0      .00  1356.05  5829.51
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     ES        HV        HL        QLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA      LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XML       XMCH      XMR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORRAR    TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.04          CWSEL=   1514.25

 STA=    4473.    4710.    4750.    4860.    5205.    5540.    5620.    5770.    5830.
   PER Q=      8.8      4.8      8.6     40.8     15.0      9.5     11.7      .8
    AREA=   266.4     90.1    192.8    584.7    419.7    198.2    262.9    37.3
     VEL=      1.6      2.5      2.2      3.4      1.7      2.5      2.2      1.1

 *SECNO 2.145
      2.14     4.41  1517.41      .00      .00  1517.53      .10     3.20      .02  1516.00
     4928.     2022.     2906.      0.     1086.     795.      0.     525.     297.  1517.53
      1.20     1.86     4.12     .00      .080     .050     .080     .000  1513.00  4153.80
   .004995     540.     580.     600.        2        0        0      .00   942.00  5095.80
0
 FLOW DISTRIBUTION FOR SECNO=      2.14          CWSEL=   1517.41

 STA=    4154.    4260.    4440.    4640.    4840.    5100.
   PER Q=      1.6     14.2     15.7      9.5     59.0
    AREA=    75.3    346.9    383.2    283.2    796.6
```

```
    VEL=      1.0      2.0      2.0      1.7      4.1

 *SECNO 2.296
     2.30     3.43  1521.43      .00      .00  1521.54      .11     3.95      .01  1521.00
    5080.     4066.     983.      30.     1610.     299.      53.     552.     315.  1521.00
     1.27     2.53     3.31      .50     .080     .050     .080     .000  1518.00  3970.16
  .007534     550.     800.     780.        4        0        0      .00  1542.43  5412.59
0
 FLOW DISTRIBUTION FOR SECNO=      2.30          CWSEL=   1521.43

 STA=    3870.    4080.    4160.    4260.    4570.    4765.    4960.    5165.    5413.
   PER Q=      3.9     11.1     21.9     36.0      6.0      1.3     19.4       .6
    AREA=    149.7    194.2    317.7    674.8    199.3     74.7    297.5     52.8
     VEL=      1.3      2.9      3.5      2.7      1.5       .9      3.3       .6

 *SECNO 2.412
     2.41     3.15  1525.15      .00      .00  1525.24      .10     3.70      .00  1524.00
    5130.     3209.    1490.     431.     1794.     397.     363.     581.     336.  1524.00
     1.33     1.79     3.75     1.19     .090     .050     .090     .000  1522.00  3798.89
  .005762     550.     610.     550.        4        0        0      .00  1702.89  5501.78
0
1
 04/29/98    10:12:52                                                                    PAGE   13


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CONAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.41          CWSEL=   1525.15

 STA=    3799.    3860.    4000.    4140.    4220.    4510.    4790.    4900.    5085.    5160.    5240.    5370.    5302.
   PER Q=       .6      7.8      7.8      2.5     20.6     19.9      3.4     23.0      1.5      1.6      4.0      1.3
    AREA=     35.0    230.4    230.4     91.7    549.8    530.8    126.0    397.0     67.2     71.7    149.0     78.5
     VEL=       .9      1.7      1.7      1.4      1.9      1.9      1.4      3.0      1.2      1.2      1.4       .9

 *SECNO 2.525
     2.53     4.89  1528.39      .00      .00  1528.68      .30     3.38      .06  1526.50
    5130.     333.     4667.     130.     301.     1016.     144.     611.     356.  1527.00
     1.39     1.11     4.59      .90     .090     .050     .090     .000  1523.50  4281.69
  .004904     720.     600.     520.        3        0        0      .00  1057.93  5339.62
0
 FLOW DISTRIBUTION FOR SECNO=      2.53          CWSEL=   1528.39

 STA=    4282.    4550.    4770.    5080.    5190.    5285.    5340.
   PER Q=       .4      6.1     91.0      2.0       .4       .1
    AREA=     51.4    249.3   1016.3     97.2     36.4     10.5
     VEL=       .4      1.3      4.6      1.1       .6       .4

 *SECNO 2.626
     2.63     5.13  1532.13      .00      .00  1532.71      .50     3.94      .08  1531.00
    5180.     187.     3412.    1581.     149.     474.     490.     627.     368.  1528.00
     1.40     1.25     7.20     3.22     .090     .050     .090     .000  1527.00  4511.59
  .012658     580.     530.     500.        2        0        0      .00   794.91  5306.50
0
 FLOW DISTRIBUTION FOR SECNO=      2.63          CWSEL=   1532.13

 STA=    4512.    4660.    4870.    5020.    5180.    5290.    5307.
   PER Q=       .2      3.5     65.9     28.7      1.8       .0
    AREA=     17.7    131.7    474.0    420.3     69.0      1.0
     VEL=       .5      1.4      7.2      3.5      1.4       .3

 *SECNO 2.762
```

```
    5180.    1318.    2251.    1611.     644.     365.     769.     651.     390.   1532.00
     1.45     2.05     6.17     2.09     .090     .050     .090     .000  1530.00  4661.70
  .003890     720.     720.     720.        4        0        0      .00   676.33  5338.03
0
1
 04/28/88   10:12:52                                                                    PAGE   14


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.76          CWSEL=   1537.08

 STA=    4662.    4770.    4960.    5020.    5255.    5338.
   PER Q=      .8     24.7     43.5     30.5      .6
   AREA=    58.6    585.8    365.0    724.5     45.0
    VEL=      .7      2.2      6.2      2.2      .7

 *SECNO 2.843
     2.84     6.02  1539.02      .00      .00  1539.42      .40     2.01      .03  1536.00
    5230.     393.     4815.     22.     239.     915.     27.     665.     395.   1538.00
     1.48     1.64     5.26     .00     .090     .050     .090     .000  1533.00  4721.51
  .005717     430.     430.     430.        3        0        0      .00   466.97  5188.49
0
 FLOW DISTRIBUTION FOR SECNO=      2.84          CWSEL=   1539.02

 STA=    4722.    4880.    5135.    5188.
   PER Q=      7.5     92.1      .4
   AREA=    239.2    914.8     27.2
    VEL=      1.6      5.3      .8

 *SECNO 2.942
     2.94     6.16  1541.16      .00      .00  1541.36      .20     1.93      .02  1536.00
    5230.    1034.     3941.    255.     596.     966.     253.     683.     392.   1540.00
     1.52     1.73     4.08     1.01     .090     .050     .090     .000  1535.00  4702.25
  .002540     580.     520.     450.        2        0        0      .00   644.41  5346.66
0
 FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1541.16

 STA=    4702.    4750.    4930.    5145.    5210.    5310.    5347.
   PER Q=      .3     19.5     75.4      1.8      2.8      .2
   AREA=    27.6    568.4    966.4     91.5    140.8     21.2
    VEL=      .6      1.8      4.1      1.0      1.0      .6

 *SECNO 3.027
     3.03     3.99  1542.99      .00      .00  1543.17      .17     1.80      .00  1540.00
    5230.    3339.     1891.      0.     1441.     409.      0.     702.     400.   1544.00
     1.56     2.32     4.63     .00     .090     .050     .090     .000  1539.00  4228.02
  .007302     450.     450.     370.        3        0        0      .00   898.11  5126.12
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.03          CWSEL=   1542.99

 STA=    4620.    4500.    4555.    4710.    4990.    4950.    5155.
```

PER Q=	18.6	12.6	9.8	9.4	13.4	26.2
AREA=	527.2	224.7	229.5	229.5	239.6	408.6
VEL=	1.8	2.9	2.2	2.2	2.9	4.6

1

PROFILE FOR STREAM CAP OVERCHUTE 4 - IONA W

PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

```
ELEVATION  1450.    1460.    1470.    1480.    1490.    1500.    1510.    1520.    1530.    1540.
   SECND   CUMDIS

     .00      0.  C I  R E M       .        .        .        .        .        .        .        .
            100.  C  I R E M       .        .        .        .        .        .        .        .
            200.  C  I  RLEM       .        .        .        .        .        .        .        .
            300.  C   I  LE.M      .        .        .        .        .        .        .        .
            400.  C   I  LREM      .        .        .        .        .        .        .        .
            500.  C    I L EM      .        .        .        .        .        .        .        .
     .11    600.  C    I L ER      .        .        .        .        .        .        .        .
            700.  C     I L.EM     .        .        .        .        .        .        .        .
            800.  C      I L E     .        .        .        .        .        .        .        .
            900.  C       I. ER    .        .        .        .        .        .        .        .
           1000.  C        I  ER   .        .        .        .        .        .        .        .
     .20   1100.  C        .I EL   .        .        .        .        .        .        .        .
           1200.  C        .I  ER  .        .        .        .        .        .        .        .
           1300.  C        . I WE  .        .        .        .        .        .        .        .
           1400.  C        . I  ER .        .        .        .        .        .        .        .
           1500.  C        .  I LE .        .        .        .        .        .        .        .
           1600.  C        .  I  ER .       .        .        .        .        .        .        .
           1700.  C        .   I LER .      .        .        .        .        .        .        .
           1800.  C        .   I L E .      .        .        .        .        .        .        .
           1900.  C        .    I LER.      .        .        .        .        .        .        .
           2000.  C        .     IL E.      .        .        .        .        .        .        .
           2100.  C        .     IL ER      .        .        .        .        .        .        .
           2200.  C        .      IL ER     .        .        .        .        .        .        .
     .42   2300.  C        .      IL ER     .        .        .        .        .        .        .
           2400.  C        .       IL.E     .        .        .        .        .        .        .
           2500.  C        .       I LEM    .        .        .        .        .        .        .
           2600.  C        .        IL E    .        .        .        .        .        .        .
           2700.  C        .         ILEM   .        .        .        .        .        .        .
     .52   2800.  C        .         .ILEM  .        .        .        .        .        .        .
           2900.  C        .         .I EM  .        .        .        .        .        .        .
           3000.  C        .         .I LEM .        .        .        .        .        .        .
           3100.  C        .         .I  LE .        .        .        .        .        .        .
           3200.  C        .         .I   EM .       .        .        .        .        .        .
           3300.  C        .         . I  LEM .      .        .        .        .        .        .
     .64   3400.  C        .         . I   E M .     .        .        .        .        .        .
           3500.  C        .         .  I  LEM .     .        .        .        .        .        .
           3600.  C        .         .  I  LEM .     .        .        .        .        .        .
           3700.  C        .         .   I LREM.     .        .        .        .        .        .
           3800.  C        .         .    IL EM.     .        .        .        .        .        .
           3900.  C        .         .    IL WEM     .        .        .        .        .        .
     .75   4000.  C        .         .     I  EM     .        .        .        .        .        .
           4100.  C        .         .      I WE     .        .        .        .        .        .
           4200.  C        .         .      ILREM    .        .        .        .        .        .
           4300.  C        .         .       ILWE    .        .        .        .        .        .
           4400.  C        .         .       I REM   .        .        .        .        .        .
     .85   4500.  C        .         .        IR EM  .        .        .        .        .        .
           4600.  C        .         .        IR EM  .        .        .        .        .        .
           4700.  C        .         .         I  E  .        .        .        .        .        .
           4800.  C        .         .        IR EM  .        .        .        .        .        .
           4900.  C        .         .        IR LE  .        .        .        .        .        .
           5000.  C        .         .         I  EM
```

```
 .96  5100.  C     .     .     .I  EM    .     .     .     .     .     .     .
      5200.  C     .     .     . I LEM   .     .     .     .     .     .     .
      5300.  C     .     .     . I RWE   .     .     .     .     .     .     .
      5400.  C     .     .     .  I LEM  .     .     .     .     .     .     .
      5500.  C     .     .     .  I  WE  .     .     .     .     .     .     .
 1.06 5600.  C     .     .     .   I  WE .     .     .     .     .     .     .
      5700.  C     .     .     .   I LEM.     .     .     .     .     .     .
      5800.  C     .     .     .   I LREM     .     .     .     .     .     .
      5900.  C     .     .     .    I LWEM    .     .     .     .     .     .
      6000.  C     .     .     .     ILREM    .     .     .     .     .     .
 1.15 6100.  C     .     .     .      IL.EM   .     .     .     .     .     .
      6200.  C     .     .     .      IL.EM   .     .     .     .     .     .
      6300.  C     .     .     .      ILRWE   .     .     .     .     .     .
      6400.  C     .     .     .      I L E   .     .     .     .     .     .
 1.23 6500.  C     .     .     .       ILREM  .     .     .     .     .     .
      6600.  C     .     .     .       ILR E  .     .     .     .     .     .
      6700.  C     .     .     .        ILREM .     .     .     .     .     .
      6800.  C     .     .     .        ILR EM .     .     .     .     .     .
      6900.  C     .     .     .        .IL E M .     .     .     .     .     .
 1.31 7000.  C     .     .     .        .ILRE M .     .     .     .     .     .
      7100.  C     .     .     .         . IL EM .     .     .     .     .     .
      7200.  C     .     .     .         . I L EM .     .     .     .     .     .
      7300.  C     .     .     .         .  I LWE .     .     .     .     .     .
 1.39 7400.  C     .     .     .         .   I LRE .     .     .     .     .     .
      7500.  C     .     .     .         .   I LRE .     .     .     .     .     .
      7600.  C     .     .     .         .    I LWE.     .     .     .     .     .
      7700.  C     .     .     .         .    I LRE.     .     .     .     .     .
      7800.  C     .     .     .         .    I  LE.     .     .     .     .     .
 1.48 7900.  C     .     .     .         .     I L E     .     .     .     .     .
      8000.  C     .     .     .         .     I  LE     .     .     .     .     .
      8100.  C     .     .     .         .      I LWE    .     .     .     .     .
      8200.  C     .     .     .         .       I LEM   .     .     .     .     .
      8300.  C     .     .     .         .       I LE M  .     .     .     .     .
 1.58 8400.  C     .     .     .         .        I.LE M .     .     .     .     .
      8500.  C     .     .     .         .        I. E M .     .     .     .     .
      8600.  C     .     .     .         .         I LEM .     .     .     .     .
      8700.  C     .     .     .         .         I RWEM .     .     .     .     .
 1.66 8800.  C     .     .     .         .         .I REM .     .     .     .     .
      8900.  C     .     .     .         .         .I RLE .     .     .     .     .
      9000.  C     .     .     .         .          . IRLEM .     .     .     .     .
      9100.  C     .     .     .         .          . I RLE .     .     .     .     .
      9200.  C     .     .     .         .           . IRLE .     .     .     .     .
 1.75 9300.  C     .     .     .         .           . IR E .     .     .     .     .
      9400.  C     .     .     .         .           . I RLE .     .     .     .     .
      9500.  C     .     .     .         .            . I LEM .     .     .     .     .
      9600.  C     .     .     .         .            . I  LE .     .     .     .     .
 1.83 9700.  C     .     .     .         .             . I LWE.     .     .     .     .
      9800.  C     .     .     .         .              ILREM     .     .     .     .
      9900.  C     .     .     .         .              IL RE     .     .     .     .
     10000.  C     .     .     .         .               ILREM    .     .     .     .
     10100.  C     .     .     .         .               IL RE    .     .     .     .
 1.92 10200. C     .     .     .         .                I REM   .     .     .     .
     10300.  C     .     .     .         .                IL.RE   .     .     .     .
     10400.  C     .     .     .         .                I LREM  .     .     .     .
     10500.  C     .     .     .         .                 I.LREM .     .     .     .
     10600.  C     .     .     .         .                 I.L E M .     .     .     .
     10700.  C     .     .     .         .                  I LRE M .     .     .     .
 2.04 10800. C     .     .     .         .                  I  LE  M .     .     .     .
     10900.  C     .     .     .         .                  .I  LE M .     .     .     .
     11000.  C     .     .     .         .                  .I  LE M .     .     .     .
     11100.  C     .     .     .         .                   . I  LE M .     .     .     .
     11200.  C     .     .     .         .                   . I  LWEM .     .     .     .
     11300.  C     .     .     .         .                    . I  LEM .     .     .     .
 2.14 11400. C     .     .     .         .                    . I  LWE .     .     .     .
     11500.  C     .     .     .         .                     . I  LE .     .     .     .
     11600.  C                                                   I  LWE
```

```
        11700.  C     .     .     .     .     .     .  I  LE.     .     .     .
        11800.  C     .     .     .     .     .     .   I  WE     .     .     .
        11900.  C     .     .     .     .     .     .   I  LE     .     .     .
        12000.  C     .     .     .     .     .     .    I  WE    .     .     .
        12100.  C     .     .     .     .     .     .    I  LE    .     .     .
   2.30 12200.  C     .     .     .     .     .     .     I .WE   .     .     .
        12300.  C     .     .     .     .     .     .      I.LE   .     .     .
        12400.  C     .     .     .     .     .     .      I. LE  .     .     .
        12500.  C     .     .     .     .     .     .       I LEM .     .     .
        12600.  C     .     .     .     .     .     .       .I LE .     .     .
        12700.  C     .     .     .     .     .     .       .I LWE .    .     .
   2.41 12800.  C     .     .     .     .     .     .       . I LEM .   .     .
        12900.  C     .     .     .     .     .     .       . I LRE .   .     .
        13000.  C     .     .     .     .     .     .       .  I LEM .  .     .
        13100.  C     .     .     .     .     .     .       .  I LRE .  .     .
        13200.  C     .     .     .     .     .     .       .  I  LWE . .     .
        13300.  C     .     .     .     .     .     .       .  I  LRE . .     .
   2.53 13400.  C     .     .     .     .     .     .       .   I  LWE. .     .
        13500.  C     .     .     .     .     .     .       .   I  L E. .     .
        13600.  C     .     .     .     .     .     .       .    I RL E .     .
        13700.  C     .     .     .     .     .     .       .    I  RL.E .     .
        13800.  C     .     .     .     .     .     .       .     I R LWE .    .
   2.63 13900.  C     .     .     .     .     .     .       .      IR .LWE .   .
        14000.  C     .     .     .     .     .     .       .      I R.L EM .  .
        14100.  C     .     .     .     .     .     .       .       IR.L  E .  .
        14200.  C     .     .     .     .     .     .       .       I RL  WE . .
        14300.  C     .     .     .     .     .     .       .        IR L  EM . .
        14400.  C     .     .     .     .     .     .       .        I.RL   E . .
        14500.  C     .     .     .     .     .     .       .         IRL   WE . .
   2.76 14600.  C     .     .     .     .     .     .       .         I L    EM . .
        14700.  C     .     .     .     .     .     .       .         .I L    E . .
        14800.  C     .     .     .     .     .     .       .         .I  LR  EM. .
        14900.  C     .     .     .     .     .     .       .         . I  LR WEM .
        15000.  C     .     .     .     .     .     .       .          . I  L RE.M .
   2.84 15100.  C     .     .     .     .     .     .       .          . I  L RE.M .
        15200.  C     .     .     .     .     .     .       .          . I  L RWEM .
        15300.  C     .     .     .     .     .     .       .           . I L  WE M .
        15400.  C     .     .     .     .     .     .       .           . I L  RWEM .
        15500.  C     .     .     .     .     .     .       .            IL   RE M .
   2.94 15600.  C     .     .     .     .     .     .       .            IL   RE  M .
        15700.  C     .     .     .     .     .     .       .             IL  .RE M .
        15800.  C     .     .     .     .     .     .       .              IL . E  M .
        15900.  C     .     .     .     .     .     .       .               IL. WE M .
   3.03 16000.  C     .     .     .     .     .     .       .                IL  ER M .
1
 04/28/88    10:12:52                                                          PAGE   16


                                                                THIS RUN EXECUTED 04/28/88   10:14:02
 ***************************************************
   HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
   ERROR CORR -  01,02,03,04,05,06
   MODIFICATION -  50,51,52,53,54,55,56
   IBM-PC-XT VERSION 1.1
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 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 CAP OVERCHUTE 4 - IONA W

 SUMMARY PRINTOUT
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SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
.000	12400.00	1457.93	4668.71	4710.00	5640.00	8486.10	.00	3817.39	4.93	1453.00	40.19	1.63
.114	7900.00	1460.30	4225.38	4640.00	5410.00	6383.08	2.37	2177.71	4.30	1456.00	36.82	1.76
.201	4440.00	1463.06	4488.16	4410.00	5230.00	5168.37	2.76	680.21	2.56	1460.50	288.70	3.93
.421	4440.00	1470.42	5049.02	6250.00	7170.00	7129.55	7.36	1280.53	3.42	1467.00	27.19	1.57
.516	4440.00	1472.85	4211.79	4370.00	5405.00	5501.05	2.43	1289.26	2.35	1470.50	122.21	2.54
.636	4540.00	1476.39	4488.43	4535.00	5325.00	5552.62	3.54	1064.15	4.39	1472.00	31.52	1.92
.752	4540.00	1478.77	4581.36	4720.00	5290.00	5346.36	2.38	764.99	2.77	1476.00	54.54	3.57
.850	4540.00	1481.72	4518.00	4500.00	5285.00	5407.68	2.95	889.60	2.72	1479.00	57.90	3.28
.956	4540.00	1484.23	4545.19	4570.00	5180.00	5288.64	2.51	743.44	3.23	1481.00	33.10	3.06
1.056	4540.00	1487.14	4623.02	4700.00	5285.00	5177.69	2.91	554.66	3.14	1484.00	114.39	4.92
1.147	4640.00	1490.58	4706.03	4840.00	5330.00	5484.44	3.44	778.41	3.08	1487.50	44.71	3.61
1.230	4640.00	1492.28	4719.62	4825.00	5350.00	5477.43	1.70	757.81	3.78	1488.50	32.22	3.22
1.310	4640.00	1494.25	4692.71	4800.00	5300.00	5658.49	1.97	965.78	3.25	1491.00	77.38	3.87
1.393	4640.00	1497.54	4425.68	4855.00	5350.00	5784.32	3.29	1358.64	3.54	1494.00	69.95	3.34
1.480	4740.00	1499.59	4086.34	4700.00	5190.00	5492.22	2.05	1405.88	4.09	1495.50	31.87	3.03
1.577	4740.00	1501.80	4171.38	4820.00	5210.00	5191.20	2.22	1019.92	2.80	1499.00	82.99	3.01
1.664	4740.00	1504.35	4229.81	4965.00	5080.00	5232.73	2.55	1192.93	3.35	1501.00	58.57	3.84

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SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
1.747	4740.00	1506.10	3970.78	4910.00	5100.00	5232.47	1.75	1261.69	3.10	1503.00	45.93	3.17
1.826	4830.00	1508.45	3921.93	4955.00	5050.00	5373.07	2.35	1457.14	3.45	1505.00	93.41	4.83
1.921	4830.00	1511.29	4308.35	4970.00	5200.00	5704.68	2.84	1396.33	3.79	1507.50	41.85	3.60
2.035	4830.00	1514.25	4473.46	4860.00	5205.00	5829.51	2.96	1356.05	4.25	1510.00	63.62	3.37
2.145	4928.00	1517.41	4153.80	4840.00	5100.00	5095.80	3.15	942.00	4.41	1513.00	49.95	4.12
2.296	5080.00	1521.43	3870.16	4960.00	5165.00	5412.59	4.02	1542.43	3.43	1518.00	75.34	3.31
2.412	5130.00	1525.15	3799.89	4900.00	5285.00	5501.78	3.72	1702.89	3.15	1522.00	57.62	3.75
2.525	5130.00	1528.39	4281.69	4770.00	5080.00	5339.62	3.24	1057.93	4.89	1523.50	49.04	4.59
2.626	5180.00	1532.13	4511.59	4870.00	5020.00	5305.50	3.74	794.91	5.13	1527.00	186.54	7.20
2.762	5180.00	1537.08	4661.78	4960.00	5020.00	5338.03	4.95	676.33	7.08	1530.00	38.90	6.17
2.843	5230.00	1539.02	4721.51	4880.00	5135.00	5188.49	1.94	466.97	6.02	1533.00	57.17	5.26
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

3.027	5230.00	1542.99	4228.02	4960.00	5155.00	5126.12	1.84	896.11	3.99	1539.00	73.02	4.63

SUMMARY OF ERRORS AND SPECIAL NOTES

THIS RUN EXECUTED 04/28/88 10:14:06

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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INPUT FILE: CAP5WEST

OUTPUT FILE: CAP5WEST.OUT

THIS RUN EXECUTED 04/28/88 10:26:33

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
  ERROR CORR - 01,02,03,04,05,06
  MODIFICATION - 50,51,52,53,54,55,56
  IBM-PC-XT VERSION 1.1
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T1      HEC-2 FLOODPLAIN AND FLOODWAY ANALYSIS
T2      100 YEAR FLOOD EVENT
T3      CAP OVERCHUTE S-WEST WASH

J1  ICHECK    INQ      NINV     IDIR     STAT     METRIC   HVINQ    Q        WSEL     FQ

      0.       0.       0.       0.   .000000      .00       .5   12400.  1457.930     .000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH      FN    ALLDC      IBW    CHNIM   ITRACE

   -1.000     .000     .000     .000     .000     .000     .000     .000     .000   15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   38.000   43.000    1.000   53.000   21.000   22.000   54.000   51.000    4.000    8.000


   42.000    5.000   26.000     .000     .000     .000     .000     .000     .000     .000


NC      .090     .090     .090     .100     .300     .000     .000     .000     .000     .000
X1      .000   41.000 7860.000 8260.000     .000     .000     .000     .000     .000     .000
X2 12400.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1460.500 4185.000 1460.000 4375.000 1459.000 4480.000 1458.000 4662.000 1456.000 4880.000
GR  1455.000 4905.000 1455.000 5000.000 1456.000 5020.000 1456.000 5020.000 1456.000 5045.000
GR  1455.000 5070.000 1456.000 5090.000 1456.500 5255.000 1456.000 5315.000 1455.500 5325.000
GR  1456.000 5340.000 1456.500 5360.000 1455.000 5385.000 1456.000 5410.000 1455.000 5575.000
GR  1456.000 5720.000 1456.500 5810.000 1457.000 6050.000 1456.500 6145.000 1457.000 6245.000
GR  1456.500 6370.000 1456.000 6620.000 1452.000 6930.000 1452.500 7000.000 1452.500 7090.000
GR  1456.000 7350.000 1456.000 7460.000 1455.500 7660.000 1456.000 7860.000 1456.000 8010.000
GR  1456.000 8100.000 1455.000 8120.000 1456.000 8175.000 1457.000 8250.000 1460.000 8720.000
GR  1464.000 8150.000     .000     .000     .000     .000     .000     .000     .000     .000

X1      .114   15.000 6000.000 6410.000     560.000     560.000     500.000     .000     .000     .000
X2 6300.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1461.000 4060.000 1460.000 4270.000 1457.500 4640.000 1456.500 5000.000 1457.500 5230.000
GR  1458.500 5685.000 1460.000 6000.000 1460.000 6040.000 1456.000 6120.000 1456.000 6145.000
GR  1458.000 6220.000 1460.000 6340.000 1460.500 6410.000 1464.000 6850.000 1468.000 7320.000

X1      .214   21.000 5985.000 6310.000     530.000     530.000     530.000     .000     .000     .000
X2 6300.000     .000     .000     .000     .000     .000     .000     .000     .000     .000
GR  1464.000 4060.000 1462.000 4265.000 1460.000 4450.000 1460.000 4470.000 1460.000 4550.000
GR  1460.000 4640.000 1460.000 4755.000 1460.500 4845.000 1460.000 4925.000 1460.000 4960.000
GR  1460.000 5000.000 1460.000 5030.000 1460.000 5320.000 1461.500 5645.000 1462.000 5985.000
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GR	1468.000	6300.000	.000	.000	.000	.000	.000	.000	.000	.000

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[illegible]	.434	17.000	6070.000	6350.000	1300.000	1120.000	1160.000	.000	.000	.000
X2	6300.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1463.000	4180.000	1468.000	4275.000	1467.500	4430.000	1466.000	4590.000	1465.000	4720.000
GR	1464.500	5200.000	1465.000	5300.000	1466.000	5540.000	1463.000	5960.000	1469.000	6070.000
GR	1468.000	6160.000	1467.000	6280.000	1468.000	6350.000	1468.000	6390.000	1469.000	6570.000
GR	1470.000	6690.000	1472.000	7200.000	.000	.000	.000	.000	.000	.000
X1	.598	11.000	4780.000	5240.000	850.000	850.000	850.000	.000	.000	.000
X2	5890.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1476.000	4140.000	1472.500	4520.000	1472.500	4760.000	1472.000	4570.000	1471.500	5000.000
GR	1472.000	5030.000	1472.000	5200.000	1473.000	5340.000	1474.000	5690.000	1476.000	5830.000
GR	1476.000	5950.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	.737	12.000	4840.000	5290.000	760.000	710.000	730.000	.000	.000	.000
X2	5745.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1481.000	3910.000	1480.000	4060.000	1476.000	4470.000	1475.000	4840.000	1473.500	5000.000
GR	1476.000	5290.000	1478.000	5650.000	1480.000	5990.000	1481.000	6280.000	1480.000	6185.000
GR	1480.000	6220.000	1481.000	6300.000	.000	.000	.000	.000	.000	.000
NC	.090	.090	.050	.000	.000	.000	.000	.000	.000	.000
X1	.886	9.000	4900.000	5130.000	790.000	790.000	790.000	.000	.000	.000
X2	5600.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1484.000	4120.000	1480.000	4490.000	1476.500	4900.000	1476.000	4940.000	1475.300	5000.000
GR	1476.000	5020.000	1477.000	5130.000	1480.000	5450.000	1484.000	5880.000	.000	.000
X1	.971	12.000	4750.000	5075.000	420.000	440.000	430.000	.000	.000	.000
[illegible]	5500.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1487.500	4330.000	1484.000	4490.000	1484.000	4585.000	1484.000	4750.000	1480.000	4890.000
GR	1476.000	5000.000	1480.000	5075.000	1480.000	5155.000	1481.000	5350.000	1480.500	5560.000
GR	1484.000	5775.000	1488.000	6075.000	.000	.000	.000	.000	.000	.000
X1	1.057	13.000	4950.000	5020.000	440.000	420.000	450.000	.000	.000	.000
X2	5455.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1492.000	4130.000	1488.000	4725.000	1484.000	4865.000	1480.000	4950.000	1478.000	5000.000
GR	1480.000	5020.000	1484.000	5540.000	1484.000	5695.000	1480.000	6055.000	1488.000	6155.000
GR	1487.000	6170.000	1488.000	6200.000	1492.000	6585.000	.000	.000	.000	.000
X1	1.125	10.000	4820.000	5200.000	380.000	310.000	360.000	.000	.000	.000
GR	1492.000	4175.000	1488.000	4450.000	1484.000	4615.000	1484.000	4700.000	1485.000	4820.000
GR	1484.000	4850.000	1490.000	4980.000	1480.000	5020.000	1484.000	5200.000	1488.000	5870.000
X1	1.199	14.000	4900.000	5100.000	420.000	340.000	400.000	.000	.000	.000
X2	5455.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1496.000	3680.000	1492.000	4220.000	1491.000	4280.000	1492.000	4430.000	1492.000	4645.000
GR	1488.000	4885.000	1484.000	4920.000	1480.500	5000.000	1484.000	5035.000	1484.000	5100.000
GR	1488.000	5415.000	1490.000	5950.000	1492.000	6250.000	1496.000	6635.000	.000	.000
X1	1.337	15.000	4900.000	5060.000	770.000	630.000	730.000	.000	.000	.000
X2	5310.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1500.000	3560.000	1496.000	3950.000	1492.000	4230.000	1490.000	4655.000	1486.000	4730.000
GR	1488.000	4795.000	1488.000	4840.000	1486.000	4900.000	1484.000	4970.000	1483.000	5000.000
[illegible]	1484.000	5010.000	1488.000	5050.000	1492.000	5550.000	1495.000	6155.000	1500.000	6685.000

X1	1.492	10.000	4960.000	5020.000	830.000	820.000	820.000	.000	.000	.000
X2	5165.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

GR	1488.000	5020.000	1492.000	5230.000	1496.000	5590.000	1496.000	5750.000	1500.000	6175.000
X1	1.627	13.000	4980.000	5045.000	710.000	710.000	710.000	.000	.000	.000
X2	5020.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1504.000	3850.000	1500.000	4270.000	1496.000	4670.000	1492.000	4760.000	1492.000	4750.000
GR	1492.000	4990.000	1488.000	5000.000	1488.000	5020.000	1492.000	5045.000	1492.000	5120.000
GR	1496.000	5230.000	1500.000	5615.000	1504.000	5825.000	.000	.000	.000	.000
X1	1.758	9.000	4980.000	5040.000	690.000	690.000	690.000	.000	.000	.000
X2	5020.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1504.000	3990.000	1500.000	4230.000	1496.000	4910.000	1492.000	4950.000	1490.000	5000.000
GR	1492.000	5040.000	1496.000	5150.000	1500.000	5435.000	1504.000	5080.000	.000	.000
X1	1.907	16.000	4975.000	5070.000	780.000	800.000	790.000	.000	.000	.000
X2	4875.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1508.000	3940.000	1504.000	4050.000	1500.000	4710.000	1499.500	4760.000	1500.000	4900.000
GR	1500.000	4900.000	1498.000	4975.000	1495.000	5000.000	1496.000	5040.000	1500.000	5070.000
GR	1501.000	5215.000	1504.000	5350.000	1505.000	5440.000	1504.000	5550.000	1504.000	5585.000
GR	1508.000	5750.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	2.063	13.000	4960.000	5050.000	590.000	870.000	820.000	.000	.000	.000
X2	4730.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1508.000	4110.000	1504.000	4200.000	1503.500	4335.000	1504.000	4420.000	1504.000	4570.000
GR	1503.000	4680.000	1504.000	4800.000	1500.000	4960.000	1496.000	4990.000	1496.000	5060.000
GR	1500.000	5060.000	1504.000	5180.000	1508.000	5290.000	.000	.000	.000	.000
NC	.080	.080	.050	.000	.000	.000	.000	.000	.000	.000
X1	2.243	7.000	4970.000	5020.000	450.000	830.000	935.000	.000	.000	.000
X2	4585.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1507.100	4615.000	1504.000	4970.000	1500.000	4985.000	1493.000	5002.000	1500.000	5020.000
GR	1504.000	5130.000	1508.000	5220.000	.000	.000	.000	.000	.000	.000
X1	2.310	8.000	4970.000	5030.000	430.000	240.000	330.000	.000	.000	.000
X2	4585.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1512.000	4400.000	1508.000	4720.000	1504.000	4970.000	1500.000	4990.000	1500.000	5010.000
GR	1504.000	5030.000	1506.000	5190.000	1508.400	5380.000	.000	.000	.000	.000
X1	2.406	14.000	4980.000	5025.000	580.000	350.000	510.000	.000	.000	.000
X2	4440.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1516.000	4300.000	1512.000	4490.000	1508.000	4515.000	1507.000	4560.000	1508.000	4655.000
GR	1508.000	4840.000	1508.000	4920.000	1504.000	4980.000	1503.000	5000.000	1504.000	5010.000
GR	1508.000	5025.000	1512.000	5050.000	1512.000	5125.000	1513.000	5195.000	.000	.000
X1	2.512	9.000	4970.000	5010.000	550.000	570.000	502.000	.000	.000	.000
X2	4440.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1513.100	4275.000	1512.000	4500.000	1512.000	4650.000	1508.000	4970.000	1505.500	5000.000
GR	1508.000	5020.000	1512.000	5115.000	1516.000	5230.000	1517.000	5360.000	.000	.000

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X1	2.599	12.000	4900.000	5045.000	420.000	400.000	400.000	.000	.000	.000
X2	4295.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1518.000	4660.000	1516.000	4760.000	1512.000	4900.000	1508.000	5000.000	1512.000	5045.000
GR	1512.000	5120.000	1511.500	5155.000	1512.000	5200.000	1516.000	5390.000	1510.000	5570.000
X1	2.692	9.000	4980.000	5010.000	500.000	450.000	490.000	.000	.000	.000
X2	4295.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1524.000	4470.000	1520.000	4570.000	1516.000	4765.000	1512.000	4950.000	1511.000	5000.000
GR	1512.000	5010.000	1516.000	5140.000	1520.000	5465.000	1522.000	5630.000	.000	.000
X1	2.794	3.000	4960.000	5040.000	540.000	540.000	540.000	.000	.000	.000
X2	4150.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1528.000	4380.000	1524.000	4670.000	1520.000	4860.000	1516.000	4960.000	1513.000	5000.000

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 X1      2.929      9.000   4990.000   5040.000    690.000    610.000    710.000       .000       .000       .000
 X2   4005.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1527.000   4270.000   1524.000   4440.000   1520.000   4895.000   1515.000   4990.000   1515.000   5000.000
 GR   1516.000   5010.000   1520.000   5040.000   1524.000   5105.000   1527.000   5335.000       .000       .000

      3.020      7.000   4975.000   5030.000    410.000    540.000    460.000       .000       .000       .000
 X2   4005.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1528.000   4490.000   1524.000   4890.000   1520.000   4975.000   1517.500   5000.000   1520.000   5030.000
 GR   1524.000   5385.000   1528.000   5490.000       .000       .000       .000       .000       .000       .000

 X1      3.116     10.000   4985.000   5040.000    480.000    430.000    460.000       .000       .000       .000
 X2   3860.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1532.000   4450.000   1528.000   4860.000   1524.000   4830.000   1524.000   4950.000   1520.000   4985.000
 GR   1519.000   5000.000   1520.000   5015.000   1524.000   5040.000   1533.000   5355.000   1531.500   5600.000

 X1      3.028      9.000   4980.000   5010.000    480.000    530.000    500.000       .000       .000       .000
 X2   3860.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1535.000   4150.000   1532.000   4590.000   1528.000   4900.000   1524.000   4980.000   1521.500   5000.000
 GR   1524.000   5020.000   1528.000   5105.000   1532.000   5375.000   1535.000   5515.000       .000       .000

 X1      3.310      8.000   4960.000   5055.000    530.000    560.000    570.000       .000       .000       .000
 X2   3724.000       .000       .000       .000       .000       .000       .000       .000       .000       .000
 GR   1536.000   4570.000   1532.000   4250.000   1528.000   4960.000   1524.000   4990.000   1524.000   5000.000
 GR   1528.000   5055.000   1532.000   5150.000   1536.000   5200.000       .000       .000       .000       .000

 X1      3.378      8.000   4875.000   5180.000    320.000    400.000    380.000       .000       .000       .000
 GR   1540.000   4480.000   1536.000   4730.000   1532.000   4875.000   1528.000   4965.000   1528.000   5040.000
 GR   1532.000   5180.000   1536.000   5250.000   1540.000   5325.000       .000       .000       .000       .000
 SI       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 *PROF 1

 CCHV=    .100 CEHV=    .300
 *SECNO  .000
      .00     5.93  1457.93      .00  1457.93  1457.97      .04      .00      .00  1456.00
   12400.    11438.     933.      29.     7466.     796.      63.       0.       0.  1457.00
      .00     1.53     1.17      .46     .090     .090     .090     .000  1452.00  4669.62
  .002153       0.       0.       0.        0        0        0      .00  3746.78  8416.41
0
 FLOW DISTRIBUTICK FOR SECNO=       .00          CWSEL=   1457.93

 STA=    4670.    5000.    5255.    5575.    5720.    6050.    6620.    6930.    7000.    7090.    7360.    7660.    7860.
   PER Q=      5.4      4.5      7.5      3.9      3.3      5.3     18.7      7.8      9.3     14.6      6.3      4.5
   AREA=    542.1    475.9    705.1    352.4    434.4    797.6   1218.3    397.6    488.7    993.6    624.0    436.0
    VEL=      1.2      1.2      1.3      1.4       .9      1.0      1.9      2.4      2.4      1.9      1.3      1.3
 STA=    7860.    8280.    8416.
   PER Q=      7.5       .2
   AREA=    795.6     63.4
    VEL=      1.2       .5

 *SECNO  .114

 3265 DIVIDED FLOW

      .11     3.54  1459.54      .00       .00  1459.50      .05     1.63      .01  1460.00
```

```
      .08      2.05      1.94       .00      .090      .090      .090      .000  1451.00  4333.11
   .005282     560.      560.      560.         3         0         0       .00  1823.43  6312.39
0
 FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1459.54

 STA=    4338.     4640.     5000.     5220.     5685.     5903.     6410.
   PER Q=      6.5      35.4      22.6      19.4       1.5      14.6
    AREA=    307.9     914.3     584.2     700.6     113.5     478.4
     VEL=      1.3       2.4       2.4       1.7        .8       1.9

 *SECNO  .214
      .21      2.91  1462.41       .00       .00  1462.46       .05      2.26       .00  1462.00
    6300.     5553.      744.        3.     3393.      497.        6.      114.       60.  1462.00
      .16      1.00      1.50       .39      .090      .090      .090      .000  1459.50  4222.63
   .004678     530.      530.      530.         4         0         0       .00  2113.37  6341.00
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORRX     TOPWID    SNOST


 FLOW DISTRIBUTION FOR SECNO=       .21          CWSEL=   1462.41

 STA=    4223.     4450.     4550.     4640.     4755.     4845.     4925.     5003.     5090.     5330.     5645.     5903.     6310.
   PER Q=      6.0       7.8       7.0       9.0       5.8       5.2       5.8       7.0      17.9      13.6       3.1      11.8
    AREA=    270.2     241.3     217.2     277.5     194.7     173.1     181.0     217.2     555.1     540.6     225.5     496.0
     VEL=      1.4       2.0       2.0       2.0       1.9       1.9       2.0       2.0       2.0       1.6        .9       1.5
 STA=    6310.     6341.
   PER Q=       .0
    AREA=      6.4
     VEL=       .4

 *SECNO  .434

 3265 DIVIDED FLOW

      .43      3.39  1467.89       .00       .00  1467.94       .05      5.48       .00  1469.00
    6300.     6255.       45.        0.     3301.       75.        0.      217.      117.  1468.00
      .35      1.89       .50       .00      .090      .090      .090      .000  1464.50  4398.64
   .003863    1300.     1160.     1120.         4         0         0       .00  1797.95  6342.40
0
 FLOW DISTRIBUTION FOR SECNO=       .43          CWSEL=   1467.89

 STA=    4309.     4430.     4580.     4720.     5000.     5300.     5540.     5937.     6390.
   PER Q=       .1       3.0       9.8      30.8      33.0      15.7       5.9        .7
    AREA=     23.8     171.2     334.8     879.6     942.4     574.0     375.7      75.5
     VEL=       .3       1.1       1.8       2.2       2.2       1.8       1.0        .6

 *SECNO  .598
      .60      2.59  1474.09       .00       .00  1474.27       .18      6.23       .04  1472.50
    5890.     1624.     3924.      342.      548.     1064.      204.      268.      148.  1473.00
      .42      2.97      3.69      1.68      .090      .090      .090      .000  1471.50  4348.14
   .021205     850.      850.      850.         3         0         0       .00  1347.66  5695.80

 FLOW DISTRIBUTION FOR SECNO=       .60          CWSEL=   1474.09

 STA=    4348.     4520.     4780.     5340.     5690.     5695.
   PER Q=      4.8      22.8      66.6       5.8        .0
    AREA=    136.0     411.6    1063.9     204.0        .2
     VEL=      2.1       3.3       3.7       1.7        .3
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       BLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VEL      TWA      LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 *SECNO  .737
      .74     4.83  1478.33      .00      .00  1478.37      .05     4.09      .01  1475.00
     5745.    1950.    3327.     468.    1317.    1605.     482.     313.     172.  1476.00
      .54     1.43     1.97      .97     .090     .090     .090     .000  1473.50  4232.61
  .002461     760.     730.     710.        5        0        0      .00  1471.12  5703.73
0
 FLOW DISTRIBUTION FOR SECNO=       .74          CWSEL=   1478.33

 STA=    4233.    4470.    4840.    5290.    5650.    5704.
   PER Q=      4.3     29.6     57.9      3.1       .0
   AREA=    274.9   1041.3   1684.7    473.8      8.5
    VEL=       .9      1.6      2.0      1.0       .2

 *SECNO  .886
      .89     4.97  1480.27      .00      .00  1480.44      .17     2.03      .04  1476.50
     5600.    1160.    3731.     709.     852.     945.     570.     366.     195.  1477.00
      .61     1.35     3.95     1.24     .090     .050     .090     .000  1475.30  4455.69
  .002680     790.     790.     790.        1        0        0      .00  1323.35  5479.24
0
 FLOW DISTRIBUTION FOR SECNO=       .89          CWSEL=   1480.27

 STA=    4456.    4480.    4900.    5130.    5450.    5479.
   PER Q=       .0     20.7     66.6     12.7       .0
   AREA=      3.3    840.5    945.1    566.4      3.9
    VEL=       .2      1.4      3.9      1.3       .2

 *SECNO  .971
      .97     5.95  1481.95      .00      .00  1482.29      .34     1.00      .05  1484.00
     5500.       0.    4215.    1285.       0.     796.     753.     386.     204.  1480.00
      .64     .00     5.30     1.71     .090     .050     .090     .000  1476.00  4821.92
  .006895     420.     450.     440.        3        0        0      .00   828.86  5648.78
0
 FLOW DISTRIBUTION FOR SECNO=       .97          CWSEL=   1481.95

 STA=    4822.    5075.    5155.    5350.    5560.    5643.
   PER Q=     76.6      6.0      9.0      7.0      1.3
   AREA=    796.1    155.6    281.8    251.0     64.1
    VEL=      5.3      2.1      1.8      1.5      1.1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       BLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VEL      TWA      LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 *SECNO 1.057
     1.06     6.45  1484.45      .00      .00  1484.75      .30     2.45      .00  1480.00
     5455.     425.    2382.    2647.     212.     382.    1353.     403.     212.  1480.00
      .67     2.01     6.24     1.96     .090     .050     .090     .000  1478.00  4849.24
  .004614     440.     450.     420.        3        0        0      .00   886.29  5735.53
0
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 STA=    4849.    4865.    4950.    5020.    5540.    5695.    5736.
   PER Q=      .0      7.8     43.7     47.6       .8       .1
    AREA=     3.5    208.3    381.5   1274.2     69.8      9.1
     VEL=      .4      2.0      6.2      2.0       .7       .4

 SECNO 1.125
      1.13     5.71  1485.71      .00      .00  1485.88      .17     1.12      .01  1485.00
     5455.      245.     4931.      178.      352.     1416.      246.      413.      219.  1484.00
       .70      .93     3.48      .73     .090     .050     .090     .000  1480.00  4044.33
   .002378      300.      360.      310.        3        0        0      .00   942.62  5486.95
0
 FLOW DISTRIBUTION FOR SECNO=      1.13          CWSEL=   1485.71

 STA=    4544.    4615.    4700.    4820.    5200.    5487.
   PER Q=      .8      3.1      2.4     90.4      3.3
    AREA=    60.5    145.6    145.6   1416.0    245.8
     VEL=      .7      1.2       .9      3.5       .7

 *SECNO 1.199
      1.20     6.43  1486.93      .00      .00  1487.40      .47     1.43      .09  1484.00
     5455.      170.     4722.      564.      102.      806.      339.      433.      226.  1484.00
       .72     1.66     5.86     1.66     .090     .050     .090     .000  1480.50  4030.31
   .006080      420.      400.      340.        3        0        0      .00   502.77  5331.08
0
 FLOW DISTRIBUTION FOR SECNO=      1.20          CWSEL=   1486.93

 STA=    4830.    4900.    5100.    5331.
   PER Q=      3.1     86.6     10.3
    AREA=    102.2    805.6    339.0
     VEL=      1.7      5.9      1.7
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   SECNO    DEPTH    CWSEL    CRIWS    WEELK    SS       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 *SECNO 1.337
      1.34     7.04  1490.04      .00      .00  1490.23      .24     2.83      .02  1486.00
     5310.    1361.     3728.      221.      895.      816.      256.      460.      237.  1488.00
       .79     1.92     4.57      .87     .090     .050     .090     .000  1483.00  4443.29
   .002696      770.      730.      650.        3        0        0      .00   860.45  5309.74
0
 FLOW DISTRIBUTION FOR SECNO=      1.34          CWSEL=   1490.04

 STA=    4443.    4685.    4730.    4795.    4840.    4900.    5060.    5310.
   PER Q=      3.7      6.7      6.7      2.4      6.2     72.2      4.2
    AREA=    226.9    197.5    197.5     91.7    182.3    815.2    254.6
     VEL=       .9      1.8      1.8      1.4      1.8      4.6       .9

 *SECNO 1.492
      1.49     6.74  1492.74      .00      .00  1493.02      .28     2.73      .01  1488.00
     5165.    1540.     2123.     1502.      761.      344.      733.      496.      252.  1488.00
       .84     2.02     6.17     2.05     .090     .050     .090     .000  1486.00  4536.43
   .004208      830.      820.      820.        2        0        0      .00   740.60  5337.03
0
 FLOW DISTRIBUTION FOR SECNO=      1.49          CWSEL=   1492.74

 STA=    4596.    4695.    4960.    5020.    5280.    5337.
   PER Q=       .4     29.4     41.1     23.9       .2
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    VEL=      .6      2.1      6.2      2.1      .6

 *SECNO 1.627
     1.63     7.46  1495.46      .00      .00  1495.74      .28     2.72      .00  1492.00
    5020.    1901.    2302.     817.     900.     396.     425.     525.     263.   1492.00
      .89     2.11     5.02     1.92     .090     .050     .090     .000  1484.00  4581.07
  .003496     710.     710.     710.        2        0        0      .00   533.63  5215.49
0
 FLOW DISTRIBUTION FOR SECNO=      1.63          CWSEL=   1495.46

 STA=    4682.    4760.    4790.    4980.    5045.    5120.    5215.
   PER Q=      3.8      4.6     29.4     45.9     11.6      4.7
   AREA=    135.7    104.2    659.8    395.7    260.4    165.8
    VEL=      1.4      2.2      2.2      5.8      2.2      1.4

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       SLOPE    BANK ELEV
    Q        GLOB     BCH      BROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XML      XNCH     XMR      WTN      SLMIN       SSTA
    SLOPE    XLOBL    XLCH     XLOBR    INTRIAL  IDC      ICCNT    CORAR    TOPWID      ENDST


 *SECNO 1.759
     1.76     7.92  1497.92      .00      .00  1498.34      .43     2.56      .04  1492.00
    5020.     973.    2806.    1241.     540.     415.     562.     551.     272.   1492.00
      .93     1.80     6.76     2.21     .090     .050     .090     .000  1490.00  4632.09
  .003939     690.     690.     690.        2        0        0      .00   554.47  5206.56
0
 FLOW DISTRIBUTION FOR SECNO=      1.76          CWSEL=   1497.92

 STA=    4632.    4910.    4980.    5040.    5150.    5287.
   PER Q=      5.3     14.0     55.9     22.1      2.6
   AREA=    266.3    274.2    415.0    420.8    130.9
    VEL=      1.0      2.6      6.8      2.6      1.0

 *SECNO 1.907
     1.91     6.64  1501.64      .00      .00  1502.14      .50     3.78      .02  1490.00
    4875.    1359.    3279.     237.     756.     404.     175.     577.     285.   1500.00
      .97     1.80     6.78     1.35     .090     .050     .090     .000  1493.00  4438.69
  .005975     780.     790.     800.        3        0        0      .00   805.30  5243.99
0
 FLOW DISTRIBUTION FOR SECNO=      1.91          CWSEL=   1501.64

 STA=    4439.    4710.    4760.    4870.    4900.    4975.    5070.    5215.    5244.
   PER Q=      5.1      3.8      3.0      6.0      9.9     67.3      4.8       .1
   AREA=    223.1     94.7     75.8    164.4    198.3    483.7    165.9      9.3
    VEL=      1.1      2.0      2.0      1.8      2.4      6.8      1.4       .8

 *SECNO 2.063
     2.06     8.45  1504.45      .00      .00  1504.75      .30     2.59      .02  1500.00
    4730.     791.    3533.     406.     780.     705.     297.     604.     298.   1500.00
     1.03     1.01     5.01     1.37     .090     .050     .090     .000  1490.00  4850.30
  .002116     590.     830.     870.        3        0        0      .00   931.46  5152.36
0
 FLOW DISTRIBUTION FOR SECNO=      2.06          CWSEL=   1504.45

 STA=    4261.    4280.    4335.    4420.    4570.    4680.    4800.    4960.    5060.    5183.    5192.
   PER Q=       .0       .5       .8       .6      1.6      1.8     11.4     74.7      8.6       .0
   AREA=      4.3     38.5     59.5     67.4    104.4    113.9    391.9    704.9    293.9      2.8
    VEL=       .3       .6       .6       .4       .7       .7      1.4      5.0      1.4       .3

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      SLMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 2.243
      2.24     9.72  1506.72      .00      .00  1507.06      .34     2.30      .01  1504.00
     4585.      576.     2152.    1867.     423.     341.     695.     631.     309.   1500.00
      1.09     1.36     6.31     2.67     .080     .050     .080     .000  1491.00  4658.56
   .003558     450.     955.     850.        2        0        0      .00   500.62  5259.18
0
 FLOW DISTRIBUTION FOR SECNO=      2.24          CWSEL=   1506.72

 STA=    4659.    4970.    5020.    5130.    5259.
   PER Q=     12.6     46.9     35.3      5.2
   AREA=    423.5    341.0    519.2    175.7
    VEL=      1.4      6.3      3.1      1.4

 *SECNO 2.310
      2.31     7.09  1507.09      .00      .00  1508.27      .37     1.20      .01  1504.00
     4585.      845.     2507.    1233.     473.     393.     604.     642.     314.   1504.00
      1.10     1.79     6.37     2.04     .080     .050     .080     .000  1500.00  4726.79
   .003809     430.     350.     240.        2        0        0      .00   612.94  5339.73
0
 FLOW DISTRIBUTION FOR SECNO=      2.31          CWSEL=   1507.09

 STA=    4727.    4970.    5030.    5190.    5340.
   PER Q=     18.4     54.7     23.5      3.4
   AREA=    473.2    393.5    462.6    141.6
    VEL=      1.8      6.4      2.3      1.1

 *SECNO 2.406
      2.41     7.10  1510.10      .00      .00  1510.37      .27     2.09      .01  1504.00
     4440.     2800.     1616.      24.    1229.     259.      19.     659.     321.   1500.00
      1.14     2.23     6.23     1.26     .080     .050     .080     .000  1503.00  4454.68
   .004324     500.     510.     350.        3        0        0      .00   583.68  5043.36
0
 FLOW DISTRIBUTION FOR SECNO=      2.41          CWSEL=   1510.10

 STA=    4455.    4515.    4560.    4655.    4840.    4930.    4980.    5025.    5043.
   PER Q=      1.8      6.1     12.8     17.5      7.6     17.3     35.4      .5
   AREA=     63.3    116.9    246.8    388.1    167.8    245.9    253.4     19.3
    VEL=      1.3      2.3      2.3      2.0      2.0      3.1      6.2      1.3


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      SLMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 SECNO 2.512
      2.51     7.05  1512.55      .00      .00  1512.87      .33     2.49      .02  1508.00
     4440.     1978.     1889.     573.     894.     290.     246.     678.     329.   1508.00
      1.18     2.21     6.52     2.33     .080     .050     .080     .000  1505.50  4428.84
   .004654     550.     560.     570.        1        0        0      .00   701.84  5130.67
0
 FLOW DISTRIBUTION FOR SECNO=      2.51          CWSEL=   1512.55

 STA=    4428.    4503.    4650.    4831.    5000.    5115.    5131.
```

```
   PER Q=      .5      .7     43.3     42.5     12.3      .1
    AREA=    41.2    30.2    814.5    239.8    241.8     4.3
     VEL=      .5      .8      2.4      6.5      2.4      .5

 *SECNO 2.599
     2.60     6.43  1514.43      .00      .00  1514.72      .29     1.84      .00  1512.00
    4295.     133.    3142.    1020.     102.     641.     534.     691.     335.   1512.00
     1.21     1.29     4.90     1.91     .000     .050     .000     .000  1500.00  4815.35
  .003764     420.     460.     400.        2        0        0      .00   499.54  5314.89
0
 FLOW DISTRIBUTION FOR SECNO=      2.60          CWSEL=   1514.43

 STA=    4815.    4900.    5045.    5120.    5155.    5200.    5315.
   PER Q=      3.1     73.2      8.7      4.8      6.1      4.2
    AREA=    102.4   640.7    181.4     93.4    120.1    138.9
     VEL=      1.3      4.9      2.1      2.2      2.2      1.3

 *SECNO 2.692
     2.69     5.82  1516.82      .00      .00  1517.18      .36     2.44      .02  1512.00
    4295.    1908.    1219.    1168.     620.     159.     392.     705.     340.   1512.00
     1.24     3.08     7.65     2.98     .000     .050     .000     .000  1511.00  4725.49
  .007180     500.     490.     450.        2        0        0      .00   480.37  5205.86
0
 FLOW DISTRIBUTION FOR SECNO=      2.69          CWSEL=   1516.82

 STA=    4725.    4765.    4980.    5010.    5140.    5205.
   PER Q=      .3     44.1     28.4     26.7      .5
    AREA=    16.0   604.3    159.3    365.4     26.7
     VEL=      .9      3.1      7.7      3.1      .9

1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       BLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CDRAR    TOPWID     ENDST


 *SECNO 2.794
     2.79     6.88  1519.88      .00      .00  1520.29      .41     3.09      .01  1516.00
    4150.     370.    2670.    1110.     180.     430.     564.     719.     346.   1516.00
     1.27     1.97     6.20     1.97     .000     .050     .000     .000  1513.00  4863.03
  .004641     540.     540.     540.        3        0        0      .00   457.89  5330.92
0
 FLOW DISTRIBUTION FOR SECNO=      2.79          CWSEL=   1519.88

 STA=    4863.    4960.    5040.    5331.
   PER Q=      8.9     64.3     26.8
    AREA=    188.1   430.3    564.2
     VEL=      2.0      6.2      2.0

 *SECNO 2.929
     2.93     7.10  1522.90      .00      .00  1523.17      .27     2.87      .01  1516.00
    4005.    2232.    1673.     100.     346.     287.      69.     739.     253.   1520.00
     1.32     2.36     5.82     1.46     .000     .050     .000     .000  1515.00  4564.54
  .003758     690.     710.     610.        2        0        0      .00   522.67  5087.21

 FLOW DISTRIBUTION FOR SECNO=      2.93          CWSEL=   1522.90

 STA=    4565.    4895.    4990.    5040.    5087.
   PER Q=     17.5     38.2     41.8      2.5
    AREA=   480.0   466.0    287.3     60.6
     VEL=      1.5      3.3      5.8      1.5
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*SECNO 3.020
     3.02     7.15  1524.66      .00      .00  1524.98      .32     1.79      .01  1520.00
    4005.     516.     1969.    1520.     248.     325.     690.     752.     359.   1520.00
     1.35     2.09     6.05     2.20     .080     .050     .080     .000  1517.50  4623.67
  .003900     410.     480.     540.        2        0        0      .00   495.33  5319.00
0
 FLOW DISTRIBUTION FOR SECNO=      3.02          CWSEL=   1524.66

 STA=    4824.    4890.    4975.    5030.    5285.    5319.
   PER Q=      .3     12.6     49.2     37.8      .2
   AREA=    22.0    226.4    325.2    679.1     11.3
    VEL=      .6      2.2      6.1      2.2      .6

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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CONRA    TOPWID     ENDST


 *SECNO 3.116
     3.12     7.52  1526.52      .00      .00  1526.90      .38     1.30      .02  1520.00
    3860.    1416.     2073.     371.     395.     323.     257.     765.     364.   1524.00
     1.38     2.33     6.41     1.44     .080     .050     .080     .000  1519.00  4723.01
  .004422     480.     460.     430.        2        0        0      .00   521.54  5244.54
0
 FLOW DISTRIBUTION FOR SECNO=      3.12          CWSEL=   1526.52

 STA=    4723.    4830.    4950.    4985.    5040.    5245.
   PER Q=     5.0     17.9     13.8     53.7      9.6
   AREA=   134.7    302.1    158.1    323.5    257.5
    VEL=     1.4      2.3      3.4      6.4      1.4

 *SECNO 3.020
     3.03     7.42  1528.92      .00      .00  1529.37      .45     2.45      .02  1524.00
    3860.     682.     1812.    1366.     268.     247.     502.     778.     369.   1524.00
     1.41     2.55     7.34     2.72     .080     .050     .080     .000  1521.50  4826.38
  .005449     480.     500.     530.        2        0        0      .00   402.34  5228.71
0
 FLOW DISTRIBUTION FOR SECNO=      3.03          CWSEL=   1528.92

 STA=    4826.    4900.    4980.    5020.    5185.    5229.
   PER Q=      .7     16.9     47.0     35.0      .4
   AREA=    33.9    233.6    246.8    481.8     20.1
    VEL=      .8      2.8      7.3      2.8      .8

 *SECNO 3.310
     3.31     7.41  1531.41      .00      .00  1531.86      .44     2.45      .00  1528.00
    3724.     324.     3181.     220.     204.     554.     138.     790.     374.   1528.00
     1.44     1.59     5.74     1.59     .080     .050     .080     .000  1524.00  4840.47
  .003573     530.     570.     580.        1        0        0      .00   295.63  5136.11
0
 FLOW DISTRIBUTION FOR SECNO=      3.31          CWSEL=   1531.41

 STA=    4840.    4960.    5055.    5136.
   PER Q=     8.7     85.4      5.9
   AREA=   204.1    554.4    138.5
    VEL=     1.6      5.7      1.6

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


SECNO 3.378
    3.38     4.85  1532.85      .00      .00  1533.06      .21     1.18      .02  1532.00
   3724.       8.    3713.       4.      13.    1019.       6.     798.     376.  1532.00
    1.47      .58     3.64      .58     .080     .050     .080     .000  1528.00  4844.18
  .003008     320.     360.     400.        4        0        0      .00   358.70  5194.88
0
 FLOW DISTRIBUTION FOR SECNO=      3.38          CWSEL=   1532.85

 STA=    4844.    4875.    5180.    5195.
   PER Q=      .2     99.7      .1
   AREA=     13.1   1019.3     6.3
    VEL=      .6      3.6      .6

1
 PROFILE FOR STREAM  CAP OVERCHUTE 5-WEST WAS


 PLOTTED POINTS (BY PRIORITY)-E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA


 ELEVATION  1450.     1460.     1470.     1480.     1490.     1500.     1510.     1520.     1530.     1540.
    SECNO   CUMDIS

      .00      0.  C I   LRE .M        .         .         .         .         .         .         .         .         .
             100.  C  I   LE .M        .         .         .         .         .         .         .         .         .
             200.  C  I   LRE.M        .         .         .         .         .         .         .         .         .
             300.  C   I   LE.M        .         .         .         .         .         .         .         .         .
             400.  C    I   ERM        .         .         .         .         .         .         .         .         .
             500.  C     I  ELM        .         .         .         .         .         .         .         .         .
      .11    600.  C     I   ER        .         .         .         .         .         .         .         .         .
             700.  C      I  ERM       .         .         .         .         .         .         .         .         .
             800.  C      I  .EM       .         .         .         .         .         .         .         .         .
             900.  C       I .E M      .         .         .         .         .         .         .         .         .
            1000.  C        I. EM      .         .         .         .         .         .         .         .         .
      .21   1100.  C         I E M     .         .         .         .         .         .         .         .         .
            1200.  C         I  EM     .         .         .         .         .         .         .         .         .
            1300.  C         I  E M    .         .         .         .         .         .         .         .         .
            1400.  C         .I  EM    .         .         .         .         .         .         .         .         .
            1500.  C         .I  E M   .         .         .         .         .         .         .         .         .
            1600.  C         . I  EM   .         .         .         .         .         .         .         .         .
            1700.  C         . I  ELM  .         .         .         .         .         .         .         .         .
            1800.  C         .  I  EM  .         .         .         .         .         .         .         .         .
            1900.  C         .  I  EL  .         .         .         .         .         .         .         .         .
            2000.  C         .  I   EM .         .         .         .         .         .         .         .         .
            2100.  C         .   I  EL .         .         .         .         .         .         .         .         .
            2200.  C         .   I   EL.         .         .         .         .         .         .         .         .
      .43   2300.  C         .    I  EL.         .         .         .         .         .         .         .         .
            2400.  C         .    I   EM         .         .         .         .         .         .         .         .
            2500.  C         .     I  ELM        .         .         .         .         .         .         .         .
            2600.  C         .      I  EM        .         .         .         .         .         .         .         .
            2700.  C         .       I REM       .         .         .         .         .         .         .         .
            2800.  C         .        I.LEM      .         .         .         .         .         .         .         .
            2900.  C         .        I.LE M     .         .         .         .         .         .         .         .
            3000.  C         .         I LE M    .         .         .         .         .         .         .         .
      .60   3100.  C         .          . ILE M  .         .         .         .         .         .         .         .
            3200.  C         .          . IL E M .         .         .         .         .         .         .         .
            3300.  C         .          . ILRE M .         .         .         .         .         .         .         .
            3400.  C         .          . I L E M .        .         .         .         .         .         .         .
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```
      3600. C        .        . ILR E M.        .        .        .        .        .        .
      3700. C        .        . I L  E M        .        .        .        .        .        .
      3800. C        .        . I LR E .M       .        .        .        .        .        .
 .74  3900. C        .        .  ILR E .M       .        .        .        .        .        .
      4000. C        .        .  ILR  E.M       .        .        .        .        .        .
      4100. C        .        .  ILR  E. M      .        .        .        .        .        .
      4200. C        .        .  I L  E. M      .        .        .        .        .        .
      4300. C        .        .  I LR E.  M     .        .        .        .        .        .
      4400. C        .        .   ILR  E  M     .        .        .        .        .        .
      4500. C        .        .   ILR  E  M     .        .        .        .        .        .
      4600. C        .        .   ILR  E   M    .        .        .        .        .        .
 .89  4700. C        .        .   I L  E   M    .        .        .        .        .        .
      4800. C        .        .   I  L .E  M    .        .        .        .        .        .
      4900. C        .        .    I R LE   M   .        .        .        .        .        .
      5000. C        .        .    I  R.WE  M   .        .        .        .        .        .
 .97  5100. C        .        .    I   R E L  M.        .        .        .        .        .
      5200. C        .        .    I   R  E    M.       .        .        .        .        .
      5300. C        .        .     I  R LE     M       .        .        .        .        .
      5400. C        .        .     I  RL  E    .M      .        .        .        .        .
      5500. C        .        .      I L   E    . M     .        .        .        .        .
 1.06 5600. C        .        .      I L   WE   . M     .        .        .        .        .
      5700. C        .        .       I.L   E   .M      .        .        .        .        .
      5800. C        .        .       I. RL E   M       .        .        .        .        .
 1.13 5900. C        .        .        I  RLE M.        .        .        .        .        .
      6000. C        .        .        I  RLE  M        .        .        .        .        .
      6100. C        .        .        I  RLWE . M      .        .        .        .        .
      6200. C        .        .        I  L  E .  M     .        .        .        .        .
 1.20 6300. C        .        .        .I  L  E .    M  .        .        .        .        .
      6400. C        .        .        .I  LR WE .     M .        .        .        .        .
      6500. C        .        .        .I   L  E .     M .        .        .        .        .
      6600. C        .        .        . I  LR WE.      M.        .        .        .        .
      6700. C        .        .        . I  LR  E.      M.        .        .        .        .
      6800. C        .        .        . I  L R E.       M.       .        .        .        .
      6900. C        .        .        .  I  LR WE       M.       .        .        .        .
      7000. C        .        .        .  I  L R E        M       .        .        .        .
 1.34 7100. C        .        .        .  I  L R E        M       .        .        .        .
      7200. C        .        .        .  I  L R WE       M       .        .        .        .
      7300. C        .        .        .   I L R .E       M       .        .        .        .
      7400. C        .        .        .   I  LR .E       M       .        .        .        .
      7500. C        .        .        .   I  LR .WE      M       .        .        .        .
      7600. C        .        .        .    I LR . E      M       .        .        .        .
      7700. C        .        .        .    I LR . E      M       .        .        .        .
      7800. C        .        .        .     I L . WE     M       .        .        .        .
 1.49 7900. C        .        .        .     I L .  E     M       .        .        .        .
      8000. C        .        .        .     I  L.  E     .M      .        .        .        .
      8100. C        .        .        .      I L.   E    .M      .        .        .        .
      8200. C        .        .        .      I  L   E    . M     .        .        .        .
      8300. C        .        .        .      I  L   WE   . M     .        .        .        .
      8400. C        .        .        .      I  .L   E   .  M    .        .        .        .
      8500. C        .        .        .       I .L   E   .  M    .        .        .        .
 1.63 8600. C        .        .        .       I . L  WE  .   M   .        .        .        .
      8700. C        .        .        .       I . L   E  .   M   .        .        .        .
      8800. C        .        .        .        I. L   E  .   M   .        .        .        .
      8900. C        .        .        .        I. L    E .   M   .        .        .        .
      9000. C        .        .        .        I. L    E .   M   .        .        .        .
      9100. C        .        .        .        I. L    WE .  M   .        .        .        .
      9200. C        .        .        .         I L    E .   M   .        .        .        .
 1.76 9300. C        .        .        .         I L    E .   M   .        .        .        .
      9400. C        .        .        .         .I L   WE.    M  .        .        .        .
      9500. C        .        .        .         .I  L   E.    M  .        .        .        .
      9600. C        .        .        .         . I LR  WE     M .        .        .        .
      9700. C        .        .        .         .  I LR  E     M .        .        .        .
      9800. C        .        .        .         .  I  LR WE    M .        .        .        .
      9900. C        .        .        .         .   I  LR .E   M .        .        .        .
     10000. C        .        .        .         .   I  L R.WE   M.        .        .        .
 1.81 10100. C        .        .        .         .    I L R E   M.
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      10200.  C     .     .     .     .  I LRE   M.    .     .     .     .
      10300.  C     .     .     .     .  I LRWE  M.    .     .     .     .
      10400.  C     .     .     .     .  I  LR E  M.    .     .     .     .
      10500.  C     .     .     .     .  I  LR E  M.    .     .     .     .
      10600.  C     .     .     .     .   I LR WE M.    .     .     .     .
      10700.  C     .     .     .     .   I LR  E M.    .     .     .     .
      10800.  C     .     .     .     .   I  L  E M.    .     .     .     .
 2.06 10900.  C     .     .     .     .   I  L  WE M.    .     .     .     .
      11000.  C     .     .     .     .   I  L   E M.    .     .     .     .
      11100.  C     .     .     .     .   I  RL  E M.    .     .     .     .
      11200.  C     .     .     .     .    I RL  E M.    .     .     .     .
      11300.  C     .     .     .     .    I R L WE M.    .     .     .     .
      11400.  C     .     .     .     .    I R L  E M.    .     .     .     .
      11500.  C     .     .     .     .    I R L EM .    .     .     .     .
      11600.  C     .     .     .     .    I R L EM .    .     .     .     .
      11700.  C     .     .     .     .     I R L WE .    .     .     .     .
 2.24 11800.  C     .     .     .     .     I R  L E .    .     .     .     .
      11900.  C     .     .     .     .      I.R L E .    .     .     .     .
      12000.  C     .     .     .     .      I. R L WE.    .     .     .     .
      12100.  C     .     .     .     .       I RL  E.    .     .     .     .
 2.31 12200.  C     .     .     .     .       I  L  E.    .     .     .     .
      12300.  C     .     .     .     .       .I LR WE.    .     .     .     .
      12400.  C     .     .     .     .       .I L R EM    .     .     .     .
      12500.  C     .     .     .     .       . I L R WEM  .     .     .     .
      12600.  C     .     .     .     .       . I L R E M  .     .     .     .
 2.41 12700.  C     .     .     .     .       . IL  R E M  .     .     .     .
      12800.  C     .     .     .     .       . I L R.E M  .     .     .     .
      12900.  C     .     .     .     .       .  IL R.E M  .     .     .     .
      13000.  C     .     .     .     .       . I L R.WEM  .     .     .     .
      13100.  C     .     .     .     .       .  I LR. EM  .     .     .     .
      13200.  C     .     .     .     .       .  I  L. WE  .     .     .     .
 2.51 13300.  C     .     .     .     .       .   I L. E   .     .     .     .
      13400.  C     .     .     .     .       .   I  L. EM .     .     .     .
      13500.  C     .     .     .     .       .    I L WEM .     .     .     .
      13600.  C     .     .     .     .       .    I .L E M .     .     .     .
 2.60 13700.  C     .     .     .     .       .     I. L WE M.    .     .     .
      13800.  C     .     .     .     .       .      I. L E M.    .     .     .
      13900.  C     .     .     .     .       .      I. L WE M    .     .     .
      14000.  C     .     .     .     .       .       I L  E M    .     .     .
      14100.  C     .     .     .     .       .       I L  WE .M  .     .     .
 2.69 14200.  C     .     .     .     .       .       .IL  E . M  .     .     .
      14300.  C     .     .     .     .       .       .I L  WE. M .     .     .
      14400.  C     .     .     .     .       .       . IL  E. M  .     .     .
      14500.  C     .     .     .     .       .       . I L  E. M .     .     .
      14600.  C     .     .     .     .       .       . I L  E. M .     .     .
      14700.  C     .     .     .     .       .       .  I L E M  .     .     .
 2.79 14800.  C     .     .     .     .       .       .  I L E M  .     .     .
      14900.  C     .     .     .     .       .       .  I LR WE M .     .     .
      15000.  C     .     .     .     .       .       .   I LR .E M .     .     .
      15100.  C     .     .     .     .       .       .   I L R.WE M .     .     .
      15200.  C     .     .     .     .       .       .    IL R. E M .     .     .
      15300.  C     .     .     .     .       .       .    IL R. E M .     .     .
      15400.  C     .     .     .     .       .       .    IL R. WE M .     .     .
 2.93 15500.  C     .     .     .     .       .       .     I  R E M .     .     .
      15600.  C     .     .     .     .       .       .    IL R WE M .     .     .
      15700.  C     .     .     .     .       .       .     IL R E M .     .     .
      15800.  C     .     .     .     .       .       .     I LR E M .     .     .
 3.02 15900.  C     .     .     .     .       .       .      I L  E M.     .     .
      16000.  C     .     .     .     .       .       .      I LR E M.     .     .
      16100.  C     .     .     .     .       .       .      I L R WE M    .     .
      16200.  C     .     .     .     .       .       .      I L R E M     .     .
      16300.  C     .     .     .     .       .       .       IL R WE .M   .     .
 3.12 16400.  C     .     .     .     .       .       .       IL  R E . M  .     .
      16500.  C     .     .     .     .       .       .       IL R E . M   .     .
      16600.  C     .     .     .     .       .       .       I L R WE . M .     .
      16700.  C                                             IL R E  M
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        16900.  C      .      .      .      .      .      .      .I LR   WE.   M    .      .
   3.03 16900.  C      .      .      .      .      .      .      . I L    E.   M    .      .
        17000.  C      .      .      .      .      .      .      . I  L   WE   M    .      .
        17100.  C      .      .      .      .      .      .      . I  L    E   M    .      .
        17200.  C      .      .      .      .      .      .      .  I  L   WE   M    .      .
        17300.  C      .      .      .      .      .      .      .  I   L  .E   M    .      .
        17400.  C      .      .      .      .      .      .      .   I   L .WE   M    .      .
   3.31 17500.  C      .      .      .      .      .      .      .   I   L .WE   M    .      .
        17600.  C      .      .      .      .      .      .      .    I   L. E   M    .      .
        17700.  C      .      .      .      .      .      .      .     I   L WE   M.   .      .
   3.39 17800.  C      .      .      .      .      .      .      .       I . LE     M      .
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 04/28/88    10:26:33                                                                    PAGE   16
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THIS RUN EXECUTED 04/28/88 10:27:43

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAP OVERCHUTE 5-WEST WAS

SUMMARY PRINTOUT

SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
.000	12400.00	1457.93	4669.62	7860.00	8280.00	8416.41	.00	3746.78	5.93	1452.00	21.53	1.17
.114	6300.00	1459.54	4331.11	6000.00	6410.00	6312.39	1.61	1829.43	3.54	1456.00	62.82	1.94
.214	6300.00	1462.41	4222.63	5985.00	6310.00	6341.00	3.88	2118.37	2.91	1459.50	46.78	1.50
.434	6300.00	1467.89	4300.64	6070.00	6390.00	6342.40	5.48	1797.95	3.39	1464.50	38.69	.60
.598	5890.00	1474.09	4349.14	4780.00	5340.00	5695.00	6.20	1347.66	2.59	1471.50	212.05	3.69
.737	5745.00	1478.33	4233.61	4840.00	5290.00	5703.73	4.24	1471.12	4.83	1473.50	24.61	1.97
.886	5600.00	1480.27	4455.69	4900.00	5130.00	5479.04	1.94	1023.35	4.37	1475.20	25.80	3.95
.971	5500.00	1481.95	4821.32	4750.00	5075.00	5649.78	1.68	926.86	5.95	1476.00	63.95	5.30
1.057	5455.00	1484.45	4849.24	4950.00	5120.00	5735.53	2.50	886.29	6.45	1478.00	45.14	6.24
1.125	5455.00	1485.71	4544.33	4920.00	5200.00	5486.35	1.26	942.62	5.71	1480.00	23.78	3.48
1.199	5455.00	1486.93	4822.3[illegible]	4900.00	5100.00	5321.08	1.22	500.77	6.43	1480.50	62.80	5.86
1.337	5310.00	1490.04	4443.29	4900.00	5060.00	5309.74	3.10	866.45	7.04	1483.00	23.96	4.57
1.492	5165.00	1492.74	4556.48	4960.00	5020.00	5337.08	2.70	740.60	6.74	1486.00	42.08	6.17
1.627	5020.00	1495.46	4661.87	4980.00	5045.00	5215.49	2.73	533.63	7.46	1489.00	34.96	5.82
1.758	5020.00	1497.92	4632.00	4980.00	5040.00	5206.56	2.46	654.47	7.92	1490.00	39.39	6.76

1.907	4875.00	1501.64	4438.69	4975.00	5071.00	5243.99	3.73	905.32	6.64	1495.00	59.75	6.70
2.063	4730.00	1504.45	4200.90	4960.00	5060.00	5192.36	2.81	931.46	8.45	1496.00	81.15	5.01

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SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10K*S	VCH
2.243	4585.00	1506.72	4653.55	4970.00	5020.00	5259.10	2.27	600.62	8.72	1498.00	35.51	6.31
2.310	4585.00	1507.89	4725.79	4970.00	5030.00	5339.73	1.17	612.94	7.89	1500.00	38.09	6.37
2.406	4440.00	1510.10	4454.68	4980.00	5025.00	5043.36	2.21	588.68	7.10	1503.00	43.29	6.23
2.512	4440.00	1512.55	4428.84	4970.00	5020.00	5130.67	2.45	701.84	7.05	1505.50	46.54	6.52
2.599	4295.00	1514.43	4815.35	4900.00	5045.00	5314.09	1.88	495.54	6.43	1508.00	37.64	4.90
2.692	4295.00	1516.82	4725.49	4980.00	5010.00	5205.86	2.39	480.37	5.82	1511.00	71.83	7.65
2.794	4150.00	1519.88	4863.03	4960.00	5040.00	5330.92	3.06	467.89	6.98	1513.00	46.41	6.20
2.929	4005.00	1522.90	4564.54	4990.00	5040.00	5087.21	3.03	522.67	7.10	1515.00	37.53	5.82
3.020	4005.00	1524.66	4823.67	4975.00	5030.00	5319.00	1.76	495.33	7.16	1517.50	39.02	6.05
3.116	3860.00	1526.52	4723.01	4985.00	5040.00	5244.54	1.85	521.54	7.52	1519.00	44.22	6.41
3.028	3860.00	1528.92	4826.38	4980.00	5020.00	5228.71	2.40	402.34	7.42	1521.50	54.49	7.34
3.310	3724.00	1531.41	4840.47	4960.00	5055.00	5136.11	2.49	295.63	7.41	1524.00	35.73	5.74
3.378	3724.00	1532.85	4844.13	4875.00	5180.00	5194.88	1.44	350.70	4.85	1528.00	30.01	3.64

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SUMMARY OF ERRORS AND SPECIAL NOTES

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THIS RUN EXECUTED 04/28/88 10:27:47

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
 IBM-PC-XT VERSION 1.1
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