FLOODWAY HEC-2
(REVISED RESOLUTION MODEL)

```
****************************************
*  HEC-2 WATER SURFACE PROFILES        *
*                                      *
*  Version   4.6.2;  May 1991          *
*                                      *
*  RUN DATE    20OCT00    TIME   07:04:53  *
****************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*          (916) 756-1104              *
****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX              XXXXXXX
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THIS RUN EXECUTED 20OCT00 07:04:53

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************


T1      Richland   and  Lexington County, SC FISs
T2      Stream Name: Congaree River            floodway model  10-18-00
T3      100-year flood    Q gage= 292000  cfs
T4      Calibration mode        finalhgh.01 and finallow.dat
T5      Calibrated to 1976 flood highwater marks
T6      Also calibrated to Columbia USGS gage data
T7      Ineffective areas based on RMA-2V model        July 21, 2000

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                         .00062                                  133.50

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1         0        -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    150        110        200        115

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

    -10       -10

                                          0.10          .3
  NH    4.     1.0   12000    0.12  22200.   0.065   22750   0.120  24475.
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
     12  364000  262000  278300  318200  310000  236300  145300  159000  138000
  219600  258600  364700
QT        5     298400     298400     298400     298400     298400

     5. 184600. 282400. 323700. 323700. 441800.
                  set-1          8-11-99    eq.c   set-1   set-1    8-11    8-11
ET                          7.11                   9.11        9.41        9025       23700       17475       23700.
NH        5       10.0       4900       10.0        6400         .12       22200        .038       22750         .12
NH    24475
X1   212950         45     22200.     22750.          0.          0.          0.
GR     145.      -775.       140.      -600.        130.       -550.        120.       -500.        110.       -400.
GR     108.      -200.       110.          1        113.        400.        118.       1400.        114.       2400.
GR     110.      3300.       110.      3500.        120.       3700.        122.       4900.        120.       6400.
GR    119.9       9475        119      12400         120       17175        120.       17475        120.      19700.
GR     110.     22000.       110.     22200.       107.6      22210.       106.5      22250.       106.6      22290.
GR    105.5     22330.      104.7     22370.       103.8      22410.       102.6      22450.       100.7      22490.
GR     99.9     22530.       98.6     22570.        94.8      22610.        96.9      22650.        92.3      22690.
GR    107.6     22730.       110.     22750.        120.      22765.        120.      23295.        119.      23475.
GR     120.     23675.       130.     23775.        140.      23975.        150.      24175.        155.      24475.
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NH    4.     1.0   12000    0.12  22200.   0.065   22750   0.120  23750.
       REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK

ET                          7.11                  9.11        3.41        8025       23499       15475       23499
NH        4       10.0       7600         .12      22200         .038       22750         .12       23750
X1   215700         30     22200.     22750.      2750.       2750.       2750.
GR     150.          1       140.       100.       130.        200.        120.        250.        115.        300.
GR     120.      1700.        120       7600        120        8775        120       15475        120.      20100.
GR     110.     22200.      107.6     22210.      106.5      22250.      106.6      22290.       105.5      22330.
GR    104.7     22370.      103.8     22410.      102.6      22450.      100.7      22490.        99.9      22530.
GR     98.6     22570.       94.8     22610.       96.9      22650.       92.3      22690.       107.6      22730.
GR     110.     22750.       120.     23200.       130.      23400.       140.      23600.        150.      23750.

NC                                        .3          .5
ET        0.         0.       7.11         0.       9.11        7.41       10085       26000       17000       26000
  NH9.    0.18    12025.  0.12     16095  0.035   19085.  0.12    19665.  0.038
  NH20334.0.12    20700.  0.035   22000.  0.092   25101.  0.035   30259.4 0.
       REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH       11       10.0       8100         .12       8900         .12       17585         .12       19085        .035
NH    19100         .12     19665.        .038     20334.         .12      20700.         .03      22000.        .092
NH   25101.        .090    30259.4

            ==========================================================
            ====== HEC-2 Input file created with CodeH2          ======
            ====== Version: 3.98                                 ======
            ======   CodeH2 Copyrighted 1986 - 1991              ======
            ====== Run Date: Tuesday  Janurary 20, 1998          ======
            ====== Run Time: 15:28:29                            ======
            ==========================================================

            ==========================================================
            The Following Options Have Been Activated :
                 1.  FLOODWAY Option.
                 2.  HSMM_FW_OUTPUT Option.
            ==========================================================

            Cross Section 1.0
            Cross Section A (HSMM Draft)

X1   226700         87.   19665.     20334.      3800.       7000.       11000.                  0.
GR   145.      5225.      140.       5243.       135.        5260.       130.        5285.       125.        5340.
GR   125.      5660.      130.       5665.       135.        5675.       135.        5690.       130.        5705.
GR   125.      5725.          125       8100         125        8900        125.      12025.        130.      12125.
GR     133.     12325.       130.     12525.        125.      12585.        125.      16985.        130.      16995.
GR     130.     17025.       125.     17035.        121.      17225.        120.      17325.        120.      17505.
GR     125.     17535.       130.     17545.        135.      17555.        135.      17585.        130.      17600.
GR     128.     17765.       125.     18365.        125.      19085.        130.      19095.        135.      19100.
GR     135.     19115.       130.     19145.        125.      19195.        123.      19290.        125.      19375.
GR    125.7     19665.      105.7     19700.        96.3      19755.        96.4      19815.        95.6      19895.
GR     102.     19915.     103.89     20000.        106.      20095.        111.      20265.        110.     20295.3
GR     112.    20312.2       114.    20328.9      114.57      20334.        116.     20346.7        118.     20368.9
GR     120.    20394.9       122.    20428.8        124.     20495.6        124.     20584.8      123.44      20700.
GR     122.    20998.3       120.    21456.6        120.     21908.6        120.      22000.        120.      22276.
GR     120.    22565.4       122.    22806.7        122.     23017.1        120.     23214.8        120.     23922.6
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GR     122.    24112.3      122.    24166.9      122.    24293.8      122.    24364.3      122.    25101.
C      122.    25148.2      124.     25236.      126.    25489.5      128.    26060.2      128.    26737.6
GR     128.    26786.1      130.    26898.9      132.    27573.9      134.    28081.8      136.    28411.2
GR     140.    29059.4      144.    30259.4
                                                set-2   set-2   8/99    8/99

ET       0.        0.      7.11        0.      9.11       7.11      5550     22656     15014     22650
  NH4.    0.18    10875.     .12  19585.  0.038   20415.     .12  28604.8 0.
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH       11        10      3450       .175      6175       .175      6175      .175     13400       .12
NH    15014       .12     19585       .038     20415        .12     24100        10     25450        10
NH   27394.        10     28605

            Cross Section 2.0
            Cross Section B (HSMM Draft)

X1   234100        84     19585      20415      2500       8000      7400                  0
GR   150.     1415.     125.      2465.      120.      2585.      120.      2625.      125.      2915.
GR      125      3450      125.      4135.      120.      4415.      120.      4765.      125.      4865.
GR     131.     5715.      125.      6175.      130.      9715.      130.      9885.      125.      9915.
GR     125.    10035.      128.     10165.      125.     10275.      125.     10515.      130.     10875.
GR     125.    11075.       125      13400       142      15014       129      15050     128.4     18715.
GR    126.1    18915.     127.3     19015.     126.4     19115.      129.     19415.     126.9     19565.
GR    121.9    19585.     106.3     19595.     100.1     19875.     101.1     19895.     101.7     20000.
GR    102.7    20175.     106.2     20325.      110.    20371.5      112.    20384.1      114.    20394.9
GR     116.   20402.5      118.    20408.2      120.    20412.8      121.     20415.      122.    20417.2
GR     122.   21233.1      120.    21638.9      118.    21652.6      116.    21668.8      116.    21689.8
GR     118.   21695.5      120.    21701.3      120.    21739.7      120.     21758.      120.     21884.
GR     120.   22858.3      120.    22976.6      120.    23128.4      122.    23490.4      124.    23568.9
GR     124.     24100      124.    25062.7      124.     25450.      124.    25621.9      124.    26132.9
GR     124.   26362.6      126.    26437.4      126.    26506.4      124.    26969.2      124.    27025.7
GR     124.   27035.7      124.      27394      126.    27562.6      128.    27892.8      130.    27995.3
GR     132.   28086.5      134.    28171.3      136.    28215.1      138.    28309.5      140.    28433.9
GR     142.   28483.5      144.    28533.8      146.    28571.2      148.      28605        0.        0.
NH     13      .18   18400     .180   20000     .12   21850     .035   23850     .
 H 24650     .035   29870     .038   30700     .12   33840     .175   36610     .
NH 37010      .08   37200     .175   41300     .12   42300
QT      6  148000  242000  291400  291400  435000
    12  364000  262000  278300  318200  310000  236300  145300  159000  138000
219600  258600  364700
              PRELIMINARY ET DATA
ET    0.      0.      0.      0.    9.11      0.      0.      0.  28450.  379
              REVISED PRELIMINARY ET DATA
                                                set-2   set-2   8/99    8/99

ET                          7.11                 9.11       7.11     19835     35900     28331     35900
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK with bridge
NH       16      10.0     18030       .12     24200      10.0     24800       .12     27480       .12
NH    28331       .12     29870      .038     30700       .12     31080        10     31800       .12
NH    33840      .175     36610        10     37010        10     37200        10     39800        .2
NH    41300        10     42830
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X1  238900      55    29870    30700     3800     3500     4800        0        0        0
G      150   17200      125    18030      120    18340      120    18400      125    18600
GR     125   19100      125    19700      120    20000      120    20250      125    20320
GR     130   20400      130    20950      125    21850      125    23850   122.50 24000.00
GR     120   24150      120    24200      120    24500      125    24800      125    25600
GR     125   27480      125    28000      142    28331      126    28372    121.9    29870
GR   106.3   29880    100.1    30160    101.1    30180    102.7    30460    106.2    30610
GR   123.1   30700      123    31080      123    31200    110.9    31300    122.2    31325
GR     123   31400      121    31800    120.5    31900      125    32000      125    33840
GR     124   34250      125    34550      125    35850      125    36610      125    37010
GR     125   37200      125    39800      125    41300      130    41500      135    41750
GR     140   42000      145    42150      150    42300      155    42450      175    42830
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BEGIN CODING OF EXISTING INTERCHANGE FILL FOR TWELFTH STREET

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                    HSMM n-values
NH    13    .18   18400    .180   20000    .12   21850    .035   23850     .
NH 24650   .035   29870    .038   30700    .12   33840    .175   36610     .
NH 37010    .08   37200    .175   41300    .12   42300
                PRELIMINARY ET DATA
ET    0.     0.      0.      0.    9.11     0.      0.      0.   28810   400
                 REVISED PRELIMINARY ET DATA
                                          set-2   set-2    8/99    8/99

ET                        7.11                 9.11       7.11       21160     35900     28331     35900
NC                                  .1          .3
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK     w-bridge
NH      16      10.0     19100      .12     24800        10      25600      .12     28331      .12
NH   29870      .038     30700      .12     31080        10      32000      .12     33840     .175
NH   34250        10     34550     .175     36610        10      39800       .2     41300        1
NH   42300        10     42830
X1  239370         0         0        0       470       470        470        0      0.05        0
```

CODING OF INTERCHANGE FILL INCLUDED

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NC       0         0         0        .1        .3         0         0         0         0         0
   15.  0.18    370.    0.185   1470.   0.12   1670.   0.035   5270.   0.12
 6020. 0.035   9070.     0.12   9170.  0.035   9575.   0.038  10425.   0.12
13170   0.175 17170.     0.08  17570.  0.175  17870.   0.035  18170.   0.12
21691       0     0.       0.      0.     0.      0.      0.      0.     0.
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK          -br
NH      12       .12      5200       10     6800       .12      9575     0.038     10425      .12
NH   10835        10   11904.2     0.12    13736.    0.175     14000        10     14400       .2
NH   16200        10     19750       10    21691
                                          set-2   set-2    8/99    8/99
ET      0.        0.      7.11       0.     9.11     7.11       560     15700      9030     15700
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Cross Section 3.0

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   239800        94       9575      10425        430        430        430                  0
  -50.  -2700.  125.   -1900.  120.   -1850.  120.   -1380.  125.   -1300.
GR  125.        -200      120.       200.      125.       400.       130.       530.       130.       1670.
GR    130.     1800.      125.      2130.      125.      4000.       120.      4050.       120        4350
GR    120.     4550.      125.      4760.      125.       5200       125.      6020.       125.       6800
GR     125      7820      130.      7930.      132.      8300.       137       9030        130       9050
GR    130.     9395.      125.      9575.     106.3      9600.      100.      9875.       101.      9900.
GR  101.47    10000.     102.3     10175.      110.    10291.1      120.     10343.       120.    10393.7
GR  121.56    10425.      122.    10433.7      124.    10467.7      126.    10490.5       126.     10835.
GR    124.   10865.3      122.    10894.8      122.    10916.9      124.    10939.6       124.    11159.6
GR    122.   11209.2      122.    11220.3      124.    11308.8      124.    11567.4       122.    11708.9
GR    120.   11904.2      118.    12226.4      116.    12361.6      114.    12415.3       112.    12761.5
GR    112.   12813.5      110.    12849.8      110.    12923.6      112.    12929.5       114.    12935.3
GR    124.   12980.7      126.    13042.1      126.     13170.      126.      13736       128.    13792.8
GR    130.   13825.4       130      14000       129      14400      128.    15864.9       144.    15910.6
GR     142     16200     139.1      17170      138.    17453.7      132.    17568.8       132.     17570.
GR    132.   17597.7      162.    17818.7    160.23     17870.      158.    17934.5       132.    18132.3
GR    132.   18165.2    132.46     18170.      134.    18186.2      148.     18322.       150.    18364.3
GR    124.   18644.1      124.    18657.9      126.    18669.5      130.    18713.6       130.    18927.2
GR    128.   19076.3      128.    19089.9      130.    19138.7      130.      19750       130.    20330.9
GR    132.   20406.6      132.    21481.5      138.    21690.9      138.     21691.
      CODING OF INTERCHANGE INCLUDED
                        HSM&M n-values
     12    .12    12275    .034   13125     .12   15975    .175   18495     .06
  19025   .175    19825     .12   20315       1   21055       1   21405       1
  23105    .20    24175     .20   24800       0       0       0       0       0
                REVISED PRELIMINARY ET DATA
                                                 set-2   set-2    8/99    8/99

ET                          7.11                  9.11    10.41    5400   18688   12061   18600
          REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK    w-br
NC                                        .1       .3
NH      19       10     3550       .06    4500       10    6200     .06    8000      10
NH   12061    0.120    12275      .034   13125      .12   13600      10   15000     .12
     15975      .06    16700        10   17370     .175   18495     .06   19025      10
NH   19825       10    20315        10   21055       1   24175      10   24800
X1  241500       95    12275     13125    2000     800    1700       0       0       0
GR     150        1      125       800     120     850     120    1320     125    1400
GR     125     1800      125      2400     120    2900     120    3070     125    3100
GR     130     3300      130      3550     130    4500     125    4830     125    5300
GR     125     6200      125      6700     120    6900     120    7250     125    7460
GR     125     8000      125     10520     130   10630     132   11000     132   11950
GR     141    12061      125     12275   106.3   12300     100   12575     101   12600
GR   102.8    12875    106.2     13035   111.8   13100     125   13125     130   13140
GR     130    13600      125     14300     125   15000     127   15300     128   15900
GR   127.4    15975      125     16300     125   16700     127   17000     125   17370
GR     123    18300    123.4     18495   124.4   19025     125   19350   126.5   19825
GR     128    20315      130     20335     132   20355     134   20365     136   20385
GR     138    20400      140     20415     142   20425     144   20440     146   20450
GR     148    20465      150     20475     152   20490     154   20535     152   20555
GR     148    20605      150     20625     154   20655     154   20755     156   20845
GR     154    20865      152     20885     150   20905     148   20915     146   20925
GR     144    20935      142     20945     140   20955     138   20965     136   20975
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GR      134      20995       132      21010       130      21015       128      21035       126      21055
      126.9      21405     125.3      23105       125      24000     127.9      24175       130      24300
        135      24470       140      24600       145      24700       150      24800       155      24800
                    REVISED PRELIMINARY ET DATA
                                                set-2   set-2    8/99    8/99

ET        0.         0.      7.11         0.      9.11      10.41      5400      18500      12104      18900
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK        -br
NC                                        .3        .5
NH        18         10      3800        .06      4830         10      6400        .06       8100         10
NH     11900        .12     12275       .034     13125        .12     13300         10      15270        .12
NH     15975       .175     18495        .06     19025         10     20315         10      21055          1
NH     21405          1     23105         .2     24175         10     24700          0
X1    241850         63     12275      13125       350        350       350          0          0          0
GR       150          1       125        800       120        850       120       1320        125       1400
GR       125       1800       125       2600       120       2900       120       3070        125       3100
GR       127       3230       130       3600       130       3800       130       4500        125       4830
GR       125       5500       125       6400       125       6700       120       6750        120       7000
GR       120       7250       125       7460       125       8100       125      10520        130      10630
GR       132      11000       135      11900       148      12104       125      12275      106.3      12300
GR       100      12575       101      12600     102.8      12875     106.2      13035      111.8      13100
GR       125      13125     126.7      13130       130      13140       127      13300        125      14300
GR       126      15270       128      15900     127.4      15975       125      16300        125      16620
GR       125      17350       123      18300     123.4      18495       124      18730        126      19025
GR       128      20315       140      20415       154      20535       156      20845        134      20995
GR       128      21055       126      21405     125.3      23105     125.3      23410      127.9      24175
GR       135      24470       140      24600       145      24700
  cross sections 242049, 242050, 242120, 242121, 242169 , 242170, 242240, 242241

NC         0          0          0         .3         .5          0          0          0          0          0
       8    .11    10765    .034   12065     .06   13935    .034   15375     .06
   15990   .034    17470     .06   21420     .08   22200       0       0       0
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH        17         10       315         10       850         10      1320         10       3070        .06
       3640         10      5440        .12      6940         10     10765       .034      12065         10
NH     14000       .034     15375        .06     15800       .034    16375.       .034      17470        .06
NH     17800          1     21420         .2     22200
                                                set-2   set-2    8/99    8/99
ET                          7.11                 9.11       7.11      5540      17240      10815      17900
X1    242049         87     10815      12065       179        179       179          0          0          0
GR       150          1       140        315       125        800       120        850        120       1320
GR       125       1500       125       2600       120       2900       120       3070        125       3100
GR       130       3230       130       3640       130       4500       125       4830        125       5440
GR       125       5600       120       6750       120       6940       120       7250        125       7460
GR       125       9415       125      10520       130      10630       132      10765        153      10815
GR       133      11025       101      11095       100      11123     151.2    11123.1      151.2      11147
GR       100    11147.1       105      11525       100      11663       152    11663.1        152      11687
GR       100      11687       102      11690       133      11785     130.8      12015      154.8      12065
GR       147     12700.     148.8      13935       118      14000       117      14235      149.3    14235.1
GR     149.3      14290       116    14290.1       115      14350       114      14480        106      14525
GR       106      14555       111      14570       117      14620       129      14650        129      14925
GR       152    14925.1       152      14980       129    14980.1       127      15320        155      15375
GR     156.6      15800     156.6      15990       127      16050     127.0      16325      153.5    16325.1
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GR    153.5     16375       127    16375.1       127      17075      145.7    17075.1      145.7     17125
        127   17125.1       127      17454       145      17470      144.5      17800      144.5     20350
GR      147     21420       130      21457       131      21713      147.6    21713.1      147.6     21730
GR      131   21730.1       130      21982     152.6    21982.1      152.6      22000        130     22001
GR      130     22145     158.7      22200

      SOUTH EASTERN BELTWAY

       HSM&M n-values
  NH     8    .11    10765    .034   12065     .06   13935    .034   15375     .
  NH 15990   .034    17470     .06   21420     .08   22200       0       0
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK        w-br
       n-values,left to reflect d/s ground; ineffective flow due to hig section

NH       15        10     455.1        10      588.9        10     1404.1        10     3100.1       .11
NH   3300.1       .11      3435       .11       6900       .11      10815      .034     12065       .06
NH    13935      .034     15375       .06      15990      .034      17470       .06     21420        .2
NH    22145
                                                set-2   set-2    8/99    8/99
BT        0                7.11         0       9.11      7.11      5540     17240     10815     17900
X1   242050        95     10815     12065          1         1         1         0         0         0
  X1242050    106    10765   12065       1       1       1       0       0
BT       31     348.1       157       151      588.9       157       151      1380       154       154
BT   1380.1       154       128      1404       154       128    1404.1       154       154    2955.1
BT      155     146.1    3434.9       155      145.7      3435       155     147.2    5580.1       155
BT    143.5      6900       155     143.5     9113.1       155     145.5      9263       155     149.5
BT   10757.       155       149     10765      155.1     149.1     11123     160.3     151.2     11663
BT    160.3       152     12065       155        150     12700       147         0     13935     148.8
BT    147.6     14235     150.2     149.1      14925     153.1       152     15375     154.8     153.7
BT    15375     154.8         0     15990      156.7       155     16325     155.1     153.2     17075
BT    147.5     145.8     17470       145        143     21420     146.9     144.9     21713     149.6
BT    147.6     21982     154.6     152.6          0         0         0
GR      150     348.1       133       400        133       455       150     455.1       150     457.9
GR      133       458       133       536        150     588.9       154      1380       120    1380.1
        120      1404       154    1404.1        145    2955.1       120      3020       120      3100
        145    3100.1       145      3110        120    3110.1       120      3300       145    3300.1
GR      145      3310       120    3310.1        120      3380       125    3434.9     147.2      3435
GR      143    5580.1     121.5      5626        120      6848       143      6900       145    9113.1
GR      130      9150       130      9227        145      9263       145      9415       147     10757
GR      132     10765       153     10815        133     11025       101     11095       100     11123
GR    151.2     11123     151.2     11147        100     11147       105     11525       100     11663
GR      152     11663       152     11687        100     11687       102     11690       133     11785
GR    130.8     12015     154.8     12065        147     12700     148.8     13935       118     14000
GR      117     14235     149.3     14235      149.3     14290       116     14290       115     14350
GR      114     14480       106     14525        106     14555       111     14570       117     14620
GR      129     14650       129     14925        152     14925       152     14980       129     14980
GR      127     15320       155     15375      156.6     15990       127     16050     127.0     16325
GR    153.5     16325     153.5     16375        127     16375       127     17075     145.7     17075
GR    145.7     17125       127     17125        127     17454       145     17470       147     21420
GR      130     21457       131     21713      147.6     21713     147.6     21730       131     21730
GR      130     21982     152.6     21982      152.6     22000       130     22000       130     22145

  NH     8    .11    10765    .034   12065     .06   13935    .034   15375     .
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NH 15990   .034   17470    .06   21420    .08   22200      0      0
      REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK        w-br
     n-values,left to reflect d/s ground; ineffective flow due to hig section

NH       9        10    3100.1      .11     10815      .034     12065      .06     13935      .034
NH   15375       .06     15990      .034     17470       .06     21420       .2     22145         0
                                            set-2   set-2   8/99   8/99
ET       0               7.11         0      9.11      7.11      5540     17240     10815     17900
X1  242120        95     10815     12065        70        70        70         0         0         0
BT      30     348.1       157       151     588.9       157       151      1380       154       154
BT  1380.1       154       128      1404       154       128    1404.1       154       154    2955.1
BT     155     146.1    3434.9       155     145.7      3435       155     147.2    5580.1       155
BT   143.5      6900       155     143.5    9113.1       155     145.5      9263       155     149.5
BT  10757.       155       149     11123     160.3     151.2     11663     160.3       152     12065
BT     155       150     12700       147         0     13935     148.8     147.6     14235     150.2
BT   149.1     14925     153.1       152     15375     154.8     153.7     15375     154.8         0
BT   15990     156.7       155     16325     155.1     153.2     17075     147.5     145.8     17470
BT     145       143     21420     146.9     144.9     21713     149.6     147.6     21982     154.6
BT   152.6         0         0         0
GR     150     348.1       133       400       133       455       150     455.1       150     457.9
GR     133       458       133       536       150     588.9       154      1380       120    1380.1
GR     120      1404       154    1404.1       145    2955.1       120      3020       120      3100
GR     145    3100.1       145      3110       120    3110.1       120      3300       145    3300.1
GR     145      3310       120    3310.1       120      3380       125    3434.9     147.2      3435
GR     143    5580.1     121.5      5626       120      6848       143      6900       145    9113.1
GR     130      9150       130      9227       145      9263       145      9415       147   10757.1
GR     132     10765       153     10815       133     11025       101     11095       100     11123
GR   151.2     11123     151.2     11147       100     11147       105     11525       100     11663
GR     152     11663       152     11687       100     11687       102     11690       133     11785
GR   130.8     12015     154.8     12065       147     12700     148.8     13935       118     14000
GR     117     14235     149.3     14235     149.3     14290       116     14290       115     14350
GR     114     14480       106     14525       106     14555       111     14570       117     14620
GR     129     14650       129     14925       152     14925       152     14980       129     14980
GR     127     15320       155     15375     156.6     15990       127     16050     127.0     16325
GR   153.5     16325     153.5     16375       127     16375       127     17075     145.7     17075
GR   145.7     17125       127     17125       127     17454       145     17470       147     21420
GR     130     21457       131     21713     147.6     21713     147.6     21730       131     21730
GR     130     21982     152.6     21982     152.6     22000       130     22000       130     22145

                                            set-2   set-2   8/99   8/99

ET       0               7.11         0      9.11      7.11      5540     17240     10815     18000
  NH     8    .11    10765    .034   12065    .06   13935    .034   15375      .
  NH 15990   .034   17470    .06   21420    .08   22200      0      0
      REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK        w-br
NC                                   .1        .3
NH      14     10.0       850        10      1320        10      3070      .11      3540        10
NH    5600       .06      6750        10     10815      .034     12065      .06     13935      .034
NH   15375       .06     15990      .034     17470       .06     21420       .2     22200         0
X1  242121        84     10815     12065         1         1         1         0         0         0
GR     150         1       125       800       120       850       120      1320       125      1400
GR     125      2300       125      2600       120      2900       120      3070       125      3100
GR     127      3540       130      4200       130      4500       125      4830       125      5600
GR     125      6700       120      6750       120      7250       125      7460       125      9415
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GR      125      10520       130      10630       132      10765       153      10815       133      11025
        101      11095       100      11123     151.2      11123     151.2      11147       100      11147
GR      105      11525       100      11663       152      11663       152      11687       100      11687
GR      102      11690       133      11785     130.8      12015     154.8      12065       147      12700
GR    148.8      13935       118      14000       117      14235     149.3      14235     149.3      14290
GR      116      14290       115      14350       114      14480       106      14525       106      14555
GR      111      14570       117      14620       129      14650       129      14925       152      14925
GR      152      14980       129      14980       127      15320       155      15375     156.6      15990
GR      127      16050     127.0      16325     153.5      16325     153.5      16375       127      16375
GR      127      17075     145.7      17075     145.7      17125       127      17125       127      17454
GR      145      17470     144.5      20350       147      21420       130      21457       131      21713
GR    147.6      21713     147.6      21730       131      21730       130      21982     152.6      21982
GR    152.6      22000       130      22000       130      22145     158.7      22200
  NH      8     .11    10765     .034    12065     .06    13935     .034    15375      .
  NH  15990    .034    17470      .06    21420     .08    22200         0         0
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK

NC                                 .3        .5
NH       13     10.0      850       10      3070       .11      3529       10      5600       .06
NH     6829       10    10793     .034     12065       .06     13935     .034     15375       .06
NH    15990     .034    17470      .06     21420        .2     22200
                                          set-2    set-2    8/99    8/99
ET        0              7.11        0      9.11      7.11      5540     17240     10793     17500
X1   242169       85    10793     12065        49        49        49         0         0         0
GR      150        1      125       800       120       850       120      1320       125      1400
GR      125     2300      125      2600       120      2900       120      3070       125      3100
GR      127     3529      130      4200       130      4500       125      4830       125      5600
GR      125     6700      120      6750       120      6829       120      7250       125      7460
GR      125     9415      125     10520       130     10630       132     10765       153     10793
GR      133    11025      101     11095       100     11123     151.2     11123     151.2     11147
GR      100    11147      105     11525       100     11663       152     11663       152     11687
GR      100    11687      102     11690       133     11785     130.8     12015     154.8     12065
GR      147    12700    148.8     13935       118     14000       117     14235     149.3     14235
GR    149.3    14290      116     14290       115     14350       114     14480       106     14525
GR      106    14555      111     14570       117     14620       129     14650       129     14925
        152    14925      152     14980       129     14980       127     15320       155     15375
GR    156.6    15990      127     16050     127.0     16325     153.5     16325     153.5     16375
GR      127    16375      127     17075     145.7     17075     145.7     17125       127     17125
GR      127    17454      145     17470     144.5     20350       147     21420       130     21457
GR      131    21713    147.6     21713     147.6     21730       131     21730       130     21982
GR    152.6    21982    152.6     22000       130     22000       130     22145     158.7     22200
  NH      8     .11    10765     .034    12065     .06    13935     .034    15375      .
  NH  15990    .034    17470      .06    21420     .08    22200         0         0
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK

NH        9       10   3100.1       .11     10793      .034     12065       .06     13935      .034
NH    15375      .06    15990      .034     17470       .06     21420        .2     22145         0
                                          set-2    set-2    8/99    8/99
ET        0              7.11        0      9.11      7.11      5540     17240     10793     17500
X1   242170       95    10793     12065         1         1         1         0         0         0
BT       31    348.1      157       151     588.9       157       151      1380       154       154
BT   1380.1      154      128      1404       154       128    1404.1       154       154    2955.1
BT    147.6    146.1   3434.9     147.2     145.7      3435     147.2     147.2    5580.1       145
BT    143.5     6900      145     143.5    9113.1     149.5     145.5      9263     149.5     149.5
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BT	10757.	155	149	10765	155.1	149.1	11123	160.3	151.2	11663
	160.3	152	12065	155	150	12700	147	0	13935	148.8
	147.6	14235	150.2	149.1	14925	153.1	152	15375	154.8	153.7
BT	15375	154.8	0	15990	156.7	155	16325	155.1	153.2	17075
BT	147.5	145.8	17470	145	143	21420	146.9	144.9	21713	149.6
BT	147.6	21982	154.6	152.6	0	0	0			
GR	150	348.1	133	400	133	455	150	455.1	150	457.9
GR	133	458	133	536	150	588.9	154	1380	120	1380.1
GR	120	1404	154	1404.1	145	2955.1	120	3020	120	3100
GR	145	3100.1	145	3110	120	3110.1	120	3300	145	3300.1
GR	145	3310	120	3310.1	120	3380	125	3434.9	147.2	3435
GR	143	5580.1	121.5	5626	120	6848	143	6900	145	9113.1
GR	130	9150	130	9227	145	9263	145	9415	147	10757
GR	132	10765	153	10793	133	11025	101	11095	100	11123
GR	151.2	11123	151.2	11147	100	11147	105	11525	100	11663
GR	152	11663	152	11687	100	11687	102	11690	133	11785
GR	130.8	12015	154.8	12065	147	12700	148.8	13935	118	14000
GR	117	14235	149.3	14235	149.3	14290	116	14290	115	14350
GR	114	14480	106	14525	106	14555	111	14570	117	14620
GR	129	14650	129	14925	152	14925	152	14980	129	14980
GR	127	15320	155	15375	156.6	15990	127	16050	127.0	16325
GR	153.5	16325	153.5	16375	127	16375	127	17075	145.7	17075
GR	145.7	17125	127	17125	127	17454	145	17470	147	21420
GR	130	21457	131	21713	147.6	21713	147.6	21730	131	21730
GR	130	21982	152.6	21982	152.6	22000	130	22000	130	22145
					set-2	set-2 8/99	8/99			

ET	0		7.11	0	9.11	7.11	5540	17240	10806	17500
NH	8	.11	10765	.034	12065	06	13935	.034	15375	
NH	15990	.034	17470	.06	21420	08	22200	0	0	

REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK

NH	10	10	3100.1	.11	9415	.11	10806	.034	12065	.06
NH	13935	.034	15375	.06	15990	.034	17470	.06	21420	.2
NH	22145	0								
	242240	94	10806	12065	70	70	70	0	0	0
	30	348.1	157	151	588.9	157	151	1380	154	154
BT	1380.1	154	128	1404	154	128	1404.1	154	154	2955.1
BT	155	146.1	3434.9	155	145.7	3435	155	147.2	5580.1	155
BT	143.5	6900	155	143.5	9113.1	155	145.5	9263	155	149.5
BT	10757	155	149	11123	160.3	151.2	11663	160.3	152	12065
BT	155	150	12700	147	0	13935	148.8	147.6	14235	150.2
BT	149.1	14925	153.1	152	15375	154.8	153.7	15375	154.8	0
BT	15990	156.7	155	16325	155.1	153.2	17075	147.5	145.8	17470
BT	145	143	21420	146.9	144.9	21713	149.6	147.6	21982	154.6
BT	152.6									
GR	150	348.1	133	400	133	455	150	455.1	150	457.9
GR	133	458	133	536	150	588.9	154	1380	120	1380.1
GR	120	1404	154	1404.1	145	2955.1	120	3020	120	3100
GR	145	3100.1	145	3110	120	3110.1	120	3300	145	3300.1
GR	145	3310	120	3310.1	120	3380	125	3434.9	147.2	3435
GR	143	5580.1	121.5	5626	120	6848	143	6900	145	9113.1
GR	130	9150	130	9227	145	9263	145	9415	147	10757
GR	132	10765	150.60	10806	133	11025	101	11095	100	11123
GR	151.2	11123	151.2	11147	100	11147	105	11525	100	11663

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GR     152     11663      152     11687      100     11687      102     11690      133     11785
GR   130.8     12015    154.8     12065      147     12700    148.8     13935      118     14000
GR     117     14235    149.3     14235    149.3     14290      116     14290      115     14350
GR     114     14480      106     14525      106     14555      111     14570      117     14620
GR     129     14650      129     14925      152     14925      152     14980      129     14980
GR     127     15320      155     15375    156.6     15990      127     16050    127.0     16325
GR   153.5     16325    153.5     16375      127     16375      127     17075    145.7     17075
GR   145.7     17125      127     17125      127     17454      145     17470      147     21420
GR     130     21457      131     21713    147.6     21713    147.6     21730      131     21730
GR     130     21982    152.6     21982    152.6     22000      130     22145
                                          set-2   set-2   8/99    8/99

ET       0                7.11         0     9.11      7.11     5540     17240     10806     17300
  NH     8    .11   10765   .034   12065    .06   13935   .034   15375     .
  NH 15990   .034   17470    .06   21420    .08   22200      0       0
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH      12     10.0     3070     .11     3535       10     5535      .11     6835       10
NH   10806     .034    12065     .06    13935     .034    15375      .06    15990     .034
NH   17470      .06    21420      .2    22200
X1  242241       87    10806    12065        1        1        1        0        0        0
GR     150        1      125      800      120      850      120     1320      125     1400
GR     125     1600      125     2400      125     2600      120     2900      120     3070
GR     125     3100      130     3230      130     3535      130     4500      125     4830
GR     125     5535      125     5700      125     6700      120     6750      120     6835
GR     120     7250      125     7460      125     9415      125    10520      130    10630
GR     132    10765    150.6    10806      133    11025      101    11095      100    11123
GR   151.2    11123    151.2    11147      100    11147      105    11525      100    11663
GR     152    11663      152    11687      100    11687      102    11690      133    11785
GR   130.8    12015    154.8    12065      147    12700    148.8    13935      118    14000
GR     117    14235    149.3    14235    149.3    14290      116    14290      115    14350
GR     114    14480      106    14525      106    14555      111    14570      117    14620
GR     129    14650      129    14925      152    14925      152    14980      129    14980
GR     127    15320      155    15375    156.6    15990      127    16050    127.0    16325
GR   153.5    16325    153.5    16375      127    16375      127    17075    145.7    17075
GR   145.7    17125      127    17125      127    17454      145    17470    144.5    20350
       147    21420      130    21457      131    21713    147.6    21713    147.6    21730
GR     131    21730      130    21982    152.6    21982    152.6    22000      130    22000
GR     130    22145    158.7    22200
                                          set-2   set-2   8/99    8/99

ET                      7.11                9.11      7.11     5540     17600     11800     17600
NH      12       10     3912      .11     4662       10     6262      .06     8212       10
NH   11750     .038    12825      .11    13000       10    14500     .175    18820       10
NH   22000       .2    22800        1    25070
X1  242440       82    11900    12825      199      199      199        0        0        0
GR     150        1      125      800      120      850      120     1320      125     1400
GR     125     1800      125     2600      120     2900      120     3070      125     3100
GR     130     3230      130     3700      130     3912      130     4500    127.5     4662
GR     125     4830      125     6262      125     6300      125     6700      120     6750
GR     120     7250      125     8200      125     8212      125    10368      125    10520
GR     130    10630      132    11000      130    11630      125    11750   147.56    11800
GR  135.52    11832   130.40    11900    128.9    11920      132    12000    102.4    12125
GR   106.5    12680    100.4    12775    131.3    12825      135    13000      130    13200
GR     131    13400      125    14500    118.9    15270    116.9    15370    113.9    15470
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GR	103.9	15490	103.9	15510	113.9	15570	115.9	15970	118.9	16070
GR	130	16130	129.1	16520	124	18820	126	18850	128	18870
GR	130	18900	132	18925	134	18940	136	18960	138	18980
GR	140	19000	142	19020	144	19040	146	19080	148	19170
GR	150	19470	160	19545	164	19570	164	19620	160	19655
GR	150	20110	130	20380	128	20430	126	20440	124	20460
GR	122	20480	130	20610	132	20770	132	22000	132	22800
GR	132	24820	155	25070						

ADDITION OF INTERCHANGE INCLUDED

NC	0	0	0	.1	.3	0	0	0	0	0
NH	12	.12	12000	.034	12825	.12	15225	.06	15325	.1
NH	17325	.06	17725	.175	18025	.06	18635	.12	19185	.
NH	20075	.175	23005	.12	24200	0	0	0	0	

REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK w-br

NH	18	10.0	4113	.11	5113	10	6413	.06	9000	10
NH	11830	.12	12000	.038	12825	.12	13000	10	14400	.12
NH	15225	.06	15325	.175	17325	.06	17725	.175	18025	.06
NH	18635	1	21200	.2	23005	10	24200	0		
					set-2	set-2 8/99	8/99			
ET	0	0	7.11	0	9.11	16.41	5412.5	17704	11830	17500
X1	243000	80	12000	12825	560	560	560	0	0	0
GR	156	1	134	350	133	400	133	536	129	590
GR	122.5	1200	125	1350	120	1380	120	1410	127	1415
GR	128.4	1500	129	2700	120	2750	119	2800	120	3750
GR	125.5	3775	123.4	4113	121.7	4425	122.3	4450	123.3	5113
GR	123.5	5250	123.5	5400	122	5580	121.5	5624	121	5900
GR	120.8	6413	120.7	6848	120.7	6900	122	7600	128.8	9000
GR	129	9113	129	9150	129.2	9227	129.2	9264	131	10185
GR	123	10275	120.7	10570	126.5	10757	128.5	10893	148.00	11830
GR	124.54	11920	133.1	12000	103.5	12125	107.6	12680	101.5	12775
GR	132.4	12825	135	13000	130	13200	131	13400	125	14200
GR	120	14400	120	14500	115	14600	110	14620	110	14640
	115	14700	117	15100	120	15200	124.2	15225	130	15260
GR	129.9	15325	127	17000	126.8	17325	126.5	17725	126.3	18025
GR	126	18570	126.9	18635	132	19000	131.1	19185	128	19815
GR	130	19825	140	19865	146	19890	146	19995	140	20025
GR	130	20075	130.5	21200	131.5	23005	132	23950	155	24200

ADDITION OF INTERCHANGE FILL
USED DATA FROM 2430+00 (ADJUSTED DUE TO SLOPE)

ET	0	0	0	0	9.11	0	0	0	12000	195
NH	10	.12	12000	.034	12825	.12	15075	.175	15275	.
NH	16595	.175	18815	.08	19085	.06	19265	.175	22315	.
NH	24200	0	0	0	0	0	0	0	0	

REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK w-br

	15	10.0	4900	10	4900	10	5580	.06	10893	0.120
NH	12000	.038	12825	.12	13000	10	13400	.12	15100	.175
NH	15260	.12	16595	.175	18025	1	19185	1	23005	.2
NH	24200									
					set-2	set-2 8/99	8/99			
RT	0	0	7.11	0	9.11	7.11	5580	17300	11800	17300
X1	245800	76	12000	12825	2800	2300	2800	0	0	0
GR	156	0	134	350	133	400	133	536	129	590
GR	122.5	1200	125	1350	120	1380	120	1410	127	1415
GR	128.4	1500	129	2700	120	2750	119	2800	120	3750
GR	125.5	3775	121.7	4425	122.3	4450	123	4900	123.5	5250
GR	123.5	5400	122	5580	121.5	5624	120.7	6848	120.7	6900
GR	122	8800	128.8	9000	129	9113	129	9150	129.2	9227
GR	129.2	9264	131	10185	123	10275	120.7	10570	126.5	10757
GR	128.5	10893	145.70	11800	134	11920	133.1	12000	103.5	12125
GR	107.6	12680	101.5	12775	132.4	12825	135	13000	130	13200
GR	131	13400	125	14200	120	14400	120	14500	115	14600
GR	110	14620	110	14640	115	14700	117	15100	120	15200
GR	124.2	15225	130	15260	129.9	15325	127	16595	126.8	17325
GR	126.5	17725	126.3	18025	126	18570	126.9	18635	132	19000
GR	131.1	19185	128	19815	130	19825	140	19865	146	19890
GR	146	19995	140	20025	130	20075	131.5	23005	132	23950
GR	155	24200								

NEW STATION USED DATA FROM 2430+00 (ADJUSTED DUE TO SLOPE)
JUST OUTSIDE OF INTERCHANGE FILL SECTION
END OF EXISTING INTERCHANGE

RT	0	0	0	0	9.11	0	0	0	12000	205
NH	7	.12	12000	.034	12825	.12	16595	.175	18815	.
NH	19215	.175	22365	.12	24200	0	0	0	0	

REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK

	11	10.0	4612	.06	5250	10	5580	.06	10893	.12
NH	12000	.038	12825	.12	16595	.175	18815	1	19865	.2
NH	23005	10	24200	0						
					set-2	set-2 8/99	8/99			
RT	0	0	7.11	0	9.11	12.41	5512.5	16877	11815	17200
X1	246000	77	12000	12825	200	200	200	0	0	0
GR	156	1	134	350	133	400	133	536	129	590
GR	122.5	1200	125	1350	120	1380	120	1410	127	1415
GR	128.4	1500	129	2700	120	2750	119	2800	120	3750
GR	125.5	3775	121.7	4425	122.3	4450	122.5	4612	123.5	5250
GR	123.5	5400	122	5580	121.5	5624	120.7	6848	120.7	6900
GR	122	8800	128.8	9000	129	9113	129	9150	129.2	9227
GR	129.2	9264	131	10185	123	10275	120.7	10570	126.5	10757
GR	128.5	10893	144.70	11815	130.9	11920	133.1	12000	103.5	12125
GR	107.6	12680	101.5	12775	132.4	12825	135	13000	130	13200
GR	131	13400	125	14200	120	14400	120	14500	115	14600
GR	110	14620	110	14640	115	14700	117	15100	120	15200
GR	124.2	15225	130	15260	129.9	15325	127	16595	126.8	17325
GR	126.5	17725	126.3	18025	126	18570	126.9	18635	127	18815

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GR      132      19000      131.1      19185        128       19815        130       19825        140       19865
C       146      19890        146      19995        140       20025        130       20075      131.5       23005
GR      132      23950        155      24200


ET        0          0       7.11          0       9.11        7.11       8900       18800      14467       18800
     10  0.12     6650.   0.035   14050.  0.12    14587.       .1  15413.  0.12
  15750    .175  17450.   0.12    18850.  0.175   20550.  0.09    20850.  0.175
  24907       0  0.       0.      0.      0.      0.      0.      0.      0.
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH       11         10     7037.5        .06      12862         .06      14050        0.12      14587.        .04
NH   15413.        .12      15750       .175     17450.         .12      18850.        .175      19724          1
NH    23512       .175      24907          0         0.          0.         0.          0.          0.          0.

          Cross Section 4.0
          Cross Section C (HSMM Draft)

X1   246700         93      14567      15413        700         700        700                     0
  148. 2587.5  134     2937.5  133.    2987.5  133.    3123.5  129.    3177.5
GR   122.5    3787.5        120      3967.5       120.      3997.5       127.      4002.5      128.4      4087.5
GR     129.     5287.5       120.     5337.5       119.      5387.5       120.      6337.5      125.5      6362.5
GR   123.82      6650.      121.7     7012.5      122.3      7037.5      123.5      7837.5      123.5      7987.5
GR     122.     8167.5      121.5     8211.5        121        9100      120.7      9487.5       122.     11387.5
GR    128.8    11587.5       129.    11700.5      129.2     11851.5       131.     12772.5       123.      12862
GR    120.7    13157.5      126.5    13344.5      128.5     13480.5     128.39      14050.     140.60      14467
GR    128.3    14507.5     133.07      14587      133.1     14587.5      103.5     14712.5      106.9      15000
GR    101.5      15262        110    15262.2        132     15321.4        132     15412.5        132      15413
GR      132    15446.3        130    15493.4        130     15653.3        128     15737.6     124.06      15750
GR      120    15762.8        120    15888.5        122     15899.5        130     15949.5        132     15973.7
GR      134    16097.8        134    16192.6        132     16566.6        130     16821.5        128     17243.7
GR      128      17450        128    17564.9        130     17572.9        130     17577.7        128     17590.8
GR      126    17601.4        126    17611.2        128     17622.5        128     17623.9        126     17694.4
GR      126    17743.6        128    17925.8        128       18850        128     18850.7        126     18861.7
GR      120    18894.5        118    18944.7        116     18984.3        116     19011.4        118     19048.6
        118    19063.7        116    19075.8        116     19113.9        118     19117.9        130     19140.3
GR      130    19505.8        132      19724        132       20550        132       20850        132       23512
GR      134    23697.8        134    23905.8        132     24078.7        132     24100.5        134     24397.9
GR      134    24787.9        140    24906.8        140       24907          0          0          0          0

          NEW X-SECTION THAT REPRESENTS DOWNSTREAM EDGE OF ISLAND

  ET     0.       0.       0.       0.     9.41       0.       0.       0.       0.

ET        0.          0.       7.11          0.       9.11      10.41      13257       23100      18790       23100
  NH     11     .12     18900     .034    19725      .12    20425      .06    21425       .
  NH  23625    .175     24145      .06    24475     .175    25295       08    25695      .1
  NH  27345      12     29900        0        0        0        0        0        0
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH       13       10.0      11500        .06      18700      0.120      18900        .038      19725        .12
NH    20425        .06      21425        .12      23625       .175      24145          1      24475          1
NH    25295          1      25695          1      27345        .12      29900          0          0          0
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X1   247000        62     18900     19725       300       300       300         0         0         0
GR      175      6000       170      7000       160      8000       155      9000       153      9050
GR      125      9900       125     10800       130     11500       130     12400       125     12800
GR      125     13070       127     13500     123.5     13625       128     13850       126     14000
GR    126.3     15100     132.7     15900     130.5     16300       133     17300     135.3     18100
GR    134.3     18200     123.1     18280     126.2     18480     117.9     18640     118.3     18700
GR   142.50     18790     128.9     18820     133.1     18900     103.5     19025     107.6     19580
GR    101.5     19675     132.4     19725     130.5     20080       117     20140     128.1     20180
GR    121.2     20280     135.1     20400       135     20425     129.4     21425       129     21500
GR      127     22150     126.5     23100     128.9     23175       112     23275     117.5     23300
GR    109.8     23425     129.5     23525     130.9     23625       132     23700       131     24000
GR      133     24100     132.9     24145     132.6     24475     131.9     25295     131.5     25695
GR    131.1     26100     133.3     27345     133.9     27690       133     29000       130     29190
GR      136     29450       180     29900         0         0         0         0         0         0
```

USED DATA FROM 2470+00 (ADJUSTED DUE TO SLOPE) AND CODING OF ISLAND

```
ET       0.        0.      7.11        0.      9.11      7.41     13362     23100     18800     23100
  ET     0.      0.      0.      0.    9.41      0.      0.      0.      0.
  NH      9      12   18900    .034   19725     .12   20375     .06   21475
  NH  23625    .175   24125     06   25215     .08   25715    .175   26690
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH       12      10.0     11500       .06     18700     0.120     18900      .038     19725       .12
NH    20375        06     21475       .12     23625      .175     24125         1     25215         1
NH    25715        10     26690       175     28600
X1   247200        61     18900     19725       200       200       200         0         0         0
GR      175      6000       170      7000       160      8000       155      9000       153      9050
GR      125      9900       125     10800       130     11500       130     12400       125     12800
GR      125     13070       127     13500     123.5     13625       128     13850       126     14000
GR    126.3     15100     132.7     15900     130.5     16300       132     17300     135.3     18100
GR    134.3     18200     123.1     18280     126.2     18480     117.9     18640     118.3     18700
GR   142.50     18800     128.9     18820     133.1     18900     103.5     19025     107.6     19580
GR    101.5     19675     132.4     19725     130.5     20080       117     20140     128.1     20180
GR    121.2     20280     132.2     20375     135.1     20400     134.7     21475       129     21500
GR      127     22150     126.5     23100     128.9     23175       112     23275     117.5     23300
GR    109.8     23425     129.6     23525       131     23625       132     23700       131     24000
GR      133     24100     132.9     24125     131.9     25215     131.5     25715     131.1     26100
GR      140     26250       145     26390       150     26690       134     27000       131     28500
GR      156     28600
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USED DATA FROM 2493+00 (ADJUSTED DUE TO SLOPE) INCLUDES ISLAND

```
  NH      6      .12   13000     .034   13676     .12   14126    .175   16086
  NH  17906    .175   19306

ET                      7.11                  9.11      3.41      7568     17100     12660     17100
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH       10      10.0      6000       .06     12640     0.120     13000       038     13676       .12
NH    14126      .175     16086       .12     17906         1     18106         1     20950      .175
NH    21500
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X1   248200        55      13000      13676       1000       1000       1000          0          0          0
G       175         0        170        940        160       1940        155       2940        153       2990
GR      125      3840        125       4740        130       5440        130       6000        130       6340
GR      125      6740        125       7010        127       7440      123.5       7565        128       7790
GR      126      7940      126.3       9040      132.7       9840      130.5      10240      135.3      12040
GR    134.3     12140      123.1      12220      126.2      12420      117.9      12580      118.3      12640
GR   145.00     12860      128.9      12900      120.6      13000      104.3      13075      105.2      13125
GR    104.3     13280      105.2      13435      102.5      13605      123.4      13676      122.3      13700
GR    122.4     13705      136.5      14100      136.6      14126      135.1      14555        135      14850
GR      127     14900      124.5      16086        124      16300        125      17300        105      17436
GR    118.9     17486        125      17536        125      17906        148      18106        148      18250
GR      155     19426        148      20950        138      20960        138      21460        156      21500
          X-SECTION INCLUDES ISLAND DATA

 NH      5      .12     9662     .034    10338      .06    15588     .140    17688      .
 NH  19762        0        0        0        0        0        0        0        0

ET                          7.11                    9.11      18.41       4464      13600       9390      13600
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
 NH      5      10.0      3002      .06       9390      0.120       9662       .038      10338        .06
 NH   14887

          Cross Section 5.0
          Cross Section D (HSMM Draft)

X1   249300        88       9662      10338       1100       1100       1100                0.
  175.  -3338.  170.    -2398.  160.    -1398.  155.    -398.   153.    -348.
  125.  502.    125.    1402.   130.    2102.   130.    3002.   125.    3402.
GR      130      3002        125       3402        127.      4102.      123.5      4227.        128.      4452.
GR     126.      4602.        126       5000      126.3      5702.      132.7      6502.      130.5      6902.
GR      134      7700      135.3      8702.      134.3      8802.      123.1      8882.      126.2      9082.
GR    117.9      9242.      118.3      9302.     142.50      9390      128.9      9482      128.9      9562
GR    121.7      9662      105.4      9737      106.3      9787      105.4      9942     105.74      10000
GR    106.3     10097      103.6     10267        110     10273.1        112     10291.9        114     10303.6
GR      116     10317.9      118     10328.2     119.05     10338        120     10346.8        122     10368.4
        124     10390.6      126     10415.7        128     10434        130      10452        130      10561
GR      130     10633.3      132     10643.8        134     10654.4        136     10685.6        136     10703.6
GR      134     11158.5      134     11175.4        134     11209.5        132      11601        130     11735.7
GR      130     11739.5      132     11779.9        132     12091.5        130     12490.2        128     12769.3
GR      126     12784.7      124      12800        122      12816        122     13011.3        122     13055.8
GR      120     13244.2      120     13251.2        122     13303.4        122     13339.3        120     13367.1
GR      120      13763      122     13861.8        122     13924.7        120     13935.7        120     14036.2
GR      122     14150.3      122     14264.7        120     14328.4        120     14575.5        122     14611.5
GR      124     14657.8      126     14663.8        128     14670.8        130     14678.5        132     14685.2
GR      134     14691.7      136     14697.3        138     14705.4        140     14717.4        142     14739.5
GR      144     14773.8      146     14813.2        148      14887

          NEW X-SECTION THAT ENDS CODING OF ISLAND

 NH      5      .12     13000     .034    13676      .06    13926     .175    16026      .
 NH  18100        0        0        0        0        0        0        0        0
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        0.        0.       7.11        0.       9.11      12.41      8208     16600     12740     16600
      REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
NH        9      10.0      7010        06      12040     0.120     13000      .038     13676       .06
NH    13926      .175     16026       .12      17400       .12     18100         1     18340         0
X1   249590        54     13000     13676        290       290       290         0         0         0
GR      175         1       170       940        160      1940       155      2940       153      2990
GR      125      3840       125      4740        130      5440       130      6340       125      6740
GR      125      7010       127      7440      123.5      7565       128      7790       126      7940
GR      126      8600     126.3      9040      132.7      9840      130.5     10240     135.3     12040
GR    134.3     12140     123.1     12220      126.2     12420      117.9     12580     118.3     12640
GR   145.30     12740       132     12820        125     12900      121.7     13000     105.4     13075
GR    106.3     13125     105.4     13280      106.3     13435      103.6     13605     124.5     13676
GR    123.4     13700     124.5     13705      131.8     13926      137.6     14100     135.1     14555
GR      135     14850       127     14900      124.6     16026        124     16300       125     17300
GR      120     17350       123     17400        125     17880        120     17950       125     18100
GR      130     18200       135     18260        140     18300        150     18340

        USED DATA FROM 2534+00 (ADJUSTED DUE TO SLOPE)

  NH      6      .12    6089     .034    6695      .12    6895      .06    7095      .1
  NH   9655      .12   11155        0       0        0       0        0       0

ET                          7.11                  9.11      9.41      2102      6710      5910      6710
      REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
      7    10.0    4020   0.120    6089     .034    6695     .024    7032     .175
   9100      .12   11525     .024   11730        0       0        0       0        0
      revised rob NH to model effective flow 6-29-99        d&d
NH        8      10.0      1300       .06      5320     0.120      6089      .038      6695       .06
NH     7095       175      9700       .12     11076         1     11730         0         0         0
X1   250770        34      6089      6695      1180      1180      1180         0         0         0
GR      150       170       125       420       125      1300       130      2320       131      2570
        130      3892       130      4020       135      4440       136      4770       135      5070
        130      5230       125      5270       125      5320    148.66      5910       133      5950
GR      130      6000     122.8      6089     103.7      6140       106      6200     104.2      6600
GR    100.4      6660     101.7      6680     117.8      6695     139.6      6725     140.3      6865
GR    140.2      6895     140.2      7095       132      9000       130      9300       120      9700
GR      120     10000       128     10500       130     11076       150     11730

  RT    0.       0.       0.       0.     9.11       0.       0.       0.    4150   112
  NH7.    0.12    7985.   0.035   8935.   0.12    9697.   0.038   10303.  0.175
  H12000.0.12    14785.  0.12    15278.  0.       0.       0.       0.       0.
      REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
      5    10.0    7628   0.120    9697   0.038  10303     .175  12000.       1
  14785.       1  15278.
      rob NH value revised to reflect ineffective flow area.      -w-br
        right overland flow modeled for high e   vents     &  smooth fwy
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N        9       10.0       7985        .06       9558       0.120       9697        .038      10303.        .175
NH   12000          1      12196       .175      13352.           1      14785.           1      15278.
RT                          9.11                  9.11        7.11       7628       12000       9590       11200

            Cross Section 6.0
            Cross Section E (HSMM Draft)

X1   253400         77       9697      10303       2630       2630       2630                       0
GR   150.      3778.      125.      4028.       125       4908.       130.       5928.       131.       6178
GR      130       7200       130.       7628      134.25      7985.        135       8048.       136.       8378.
GR     135.      8678.       130.      8838.       125.      8878.        125.      8928.      125.06      8935.
GR     130.      9488.       133.      9558.     148.00       9590       123.5      9697.      104.4      9748.
GR    106.7      9808.     105.84     10000       104.9     10208.       101.1     10268.      102.4     10288.
GR    117.8     10303.       118.     10313.4       120.     10318.2       122.     10323.6       124.     10328.
GR     126.     10333.6       128.     10338.4       130.     10343.1       132.     10349.1       134.     10352.9
GR     136.     10357.4       138.     10361.5       140.     10372.3       138.     10865.2       138.     10930.9
GR     138.     11167.2       136.     11725.7     134.83      12000        134       12196       132.     12294.3
GR     130.     12501.7       132.     12540.9       134.     12580.3       136.     12621.1       138.     12659.1
GR     140.     12718.9       140      12916        140.      13352        138.     13366.1       136.     13404.4
GR     134.     13475.6       134.     13679.1       136.     13774.5       136.     13872.4       136.     13897.8
GR     138.     14035.3       140.     14121.4       142      14167.6       144.     14215.3       144.      14434.
GR     144.     14504.2       144.     14531.7       144       14785        144.      14787.       146.     14854.5
GR     148.     14924.7       150.     15000.        152.     15043.1       154.      15083.       154.     15184.6
GR     154.     15209.2       156.     15278.
  NC  0.11    0.11    0.035     0.1     0.30
  NH    10    0.12   2685.    0.11    4685   0.035   5260.    0.11    5400     0.
  NH  5510     0.1   5550.    0.20    5650    0.11   5700.    0.20    5800     0.
  NH 10700

RT                          9.11                  9.11        9.41                   5315       4685       5315
        REVISED NH TO REFLECT EFFECTIVE FLOW AREA IN LEFT OVERBANK
      9    10.0    3185   0.035   5260.   0.120    5320   0.024    6405   0.120
   7110   0.024    7840   0.120    8530   0.024    9000   0.120   10000
        right oveland flow modeled for high flood events
     11    10.0    3185    .028   5260.   0.120    5320      .6    6405       1
   7110      .6    7364      .2    7660      .2    7840      .2    8530      .2
   9000      .2   10000
NC      .07        .07       .038        .3         .5
NH       13         10       3185        10       3800        .11       4685        .038       5315        .12
NH     5335         .6       6405         1       7110         .6       7364          .2       7660          2
NH     7840          1       8530         1       9000          1      10000

            Cross Section 6.2

X1   254500         48       4685       5315       1050       1150       1100
GR      180       2685        160       3185        140       3285        142       3800      145.4       4685
GR    101.4       4785      105.9       4925      105.9       4985      104.1       5125      105.6       5225
GR    103.3       5265      111.7       5300      127.2       5315      124.3       5335      124.8       5360
GR    129.3       5385        140       5500        138       5880        138       5980        136       6263
GR      134       6340        128       6373        134       6405        134       6580        136       6940
GR      138       7054        140       7110        142       7170        142       7364        140       7660
GR      138       7770        136       7840        136       8440        138       8485        140       8530
GR      140       8700        138       8840        138       8905        140       8940        142       8967
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GR	144	9000	146	9060	148	9100	148	9185	146	9382
G	146	9882	148	9956	152	10000				
ET			9.11		9.4	9.41		5315	4685	5315
NH	13	10	3185	10	3800	.11	4685	.038	5315	.12
NH	5335	.6	6405	1	7110	.6	7364	.2	7660	.2
NH	7840	.2	8530	1	9000	1	10000			

Cross Section 6.5

X1	254600	0	0	0	100	100	100			
ET			9.11					5315	4685	5315
NH	8	10	2685	10	4685	.038	5315	.12	5710	.6
NH	6080	1	6900	.6	7400	.2	9875			

Cross Section 6.7

X1	255100	40	4685	5315	500	500	500	0	0	
GR	180	2685	160	3185	140	3285	145.15	4685	101.45	4785
GR	105.95	4925	105.95	4985	104.15	5125	105.65	5225	103.35	5265
GR	111.75	5300	127.25	5315	124.35	5335	124.85	5360	129.35	5385
GR	140	5710	138	5970	136	6080	134	6400	132	6420
GR	134	6490	134	6735	132	6800	136	6900	138	6930
GR	140	6970	142	7025	142	7210	141.6	7400	140	8260
GR	140	8430	138	8500	138	8550	140	8600	142	8640
GR	144	8705	146	8800	148	9585	150	9790	154	9875
ET			7.11			9.41	4685	5315		
NH	8	.07	4485	.18	4685	.038	5315	.12	5545	1
NH	6800	.6	7100	.175	7765	.2	8600			

Cross Section 7.0
Cross Section F (HSMM Draft)

X1	256100	24	4685	5315	1000	1000	1000	0		
GR	180	2685	160	3185	140	3285	145.15	4685	101.45	4785
GR	105.95	4925	105.85	4985	104.15	5125	105.65	5225	103.35	5265
GR	111.75	5300	127.25	5315	124.35	5335	124.85	5360	129.35	5385
GR	135	5390	140	5545	140	6800	140	7100	140	7700
GR	138.8	7705	138.8	8400	150	8500	160	8600		
ET			9.11			7.41		5315	4685	5315
NH	4	.09	4685	.038	5315	.1	5545	1	8660	
X1	257200	0	0	0	1250	950	1100			
NC	.07	.07	.035	.1	.3					
NH	5	.07	6209	.035	6665	.07	6800	10	7900	10
NH	12600									
ET			9.11			5.41		6759	6192	6759

Cross Section 8.0
Cross Section G (HSMM Draft)

X1	258400	23	6209	6665	1150	1250	1200			
GR	180	1	160	4800	160	4950	151.7	6000	150.8	6023
GR	142.2	6042	143.5	6085	149.4	6090	132	6125	130.6	6170
GR	131.8	6175	124.7	6209	104.7	6260	101.4	6580	104.7	6610
GR	103.6	6620	105.7	6640	114.3	6665	120	6700	129.2	6800
GR	140	7900	160	9800	180	12600				
RT			9.11		9.1	5.41		6665	6209	6665
NH	5	.07	6209	.035	6665	.07	6800	10	7900	10
NH	12600									
X1	259600	0	0	0	1150	1250	1200			
RT			9.11		9.1	6.41		6665	6209	6665
NH	5	.07	6209	.035	6665	.07	6800	10	7900	10
NH	12600									
X1	260100	0	0	0	500	500	500			
NC	.065	.065	.03	.1	.3					
NH	5	.065	6000	.03	6689	.065	6705	10	6780	10
NH	9500									
RT			9.11		9.1	23.41		6689	4882	6689

Cross Section 9.0
Cross Section H (HSMM Draft)

X1	260400	22	6000	6689	300	300	300			
GR	180	1	160	1700	160	4000	140	4400	131.7	6000
GR	110.2	6030	103.5	6100	106.9	6200	106.7	6280	104.8	6320
GR	105.6	6340	105.2	6380	100.7	6460	106.9	6480	99.8	6530
GR	102.4	6600	108.3	6640	109.4	6660	120.6	6689	122.4	6705
	161.7	6780	180	9500						
NC	.065	.065	.03	.6	.8					
NH	3	1	1570	.03	2465	.065	3100			
RT			9.11		9.1	9.1		2465	1570	2465
X1	260500	18	1570	2465	100	100	100			
X3	10				0	0	0	165.5	165.5	
	5	350	166.1	0	880	166.1	0	1570	165.7	156.8
	2465	165.5	156.8	2900	167					
GR	170	1	166.1	350	140	435	135	585	135	785
GR	145	880	145	1320	140.5	1570	135.6	1640	105.7	1735
GR	107	1810	104.3	1825	107.2	2065	105.9	2230	112.5	2350
GR	140	2465	165	2900	170	3100				
SB	1.25	1.25	2.5	0	600	92	33973	3		
NH	3	1	1570	.03	2465	.065	3100			
RT			9.11		9.1	9.1		2465	1570	2465

X1	260550	0	0	0	50	50	50			
	0	0	1	156.8	165.5					
X3	10							165.5	165.5	
BT	5	350	166.1	0	880	166.1	0	1570	165.7	156.8
BT	2465	165.5	156.8	2900	167					
NC	.095	.095	.03	.1	.3					
ET			9.11		9.1	9.1		2465	1570	2465
NH	3	1	1570	.03	2465	.065	3100			
X1	260600	0	0	0	50	50	50			
X3	10							165.5	165.5	
ET			9.11		9.1	9.1		2730	1510	2730
NH	3	1	1510	.03	2730	.065	3590			
X1	260700	30	1000	2730	100	100	100			
X3	10							165.5	165.5	
GR	170	1	165	100	160	700	155	800	151	1000
GR	150	1050	130	1100	130	1170	170	1280	170	1380
GR	145	1510	126.1	1680	126.1	1681	127.5	1770	110	1800
GR	105.3	1942	107.4	2105	107.4	2115	104.6	2250	106	2265
GR	108.6	2410	103.7	2425	134	2570	123.1	2730	135	2850
GR	135	2900	155	2960	160	3120	160	3320	170	3570
NC	.065	.065	.03	.6	.8					
ET			9.11		9.1	9.11		2730	1510	2730
NH	3	1	1510	.03	2730	.065	3570			
X1	260730	0	0	0	30	30	30			
X3	10							170.9	170.9	
	11	1000	170.9	0	1380	172.9	0	1510	173.7	172.4
	1680	174.8	173.2	1681	174.9	166	2105	175	166	2115
	175	170.5	2250	175	170.5	2265	175	166	2730	175
	166	3570	175.3							
SB	1.25	1.25	2.5	0	670	122	50877	4.7		
	3	1	1510	.03	2730	.065	3570			
			9.11		9.1	9.11		2730	1510	2730
X1	260800	0	0	0	60	60	70			
X2	0	0	1	166	170.9					
X3	10							170.9	170.9	
BT	11	1000	170.9	0	1380	172.9	0	1510	173.7	172.4
BT	1680	174.8	173.2	1681	174.9	166	2105	175	166	2115
BT	175	170.5	2250	175	170.5	2265	175	166	2730	175
BT	166	3570	175.3							
NC	.065	.065	.03	.1	.3					
ET			9.11		9.11	9.41		1725.14	1548.77	1725.14

Cross Section 10.0
Cross Section I (HSMM Draft)

X	261200	25	370	1435	250	550	400			
GR	170	1	150	50	130	110	130	160	145	230
GR	145	300	140	370	133.4	500	128	520	131.8	570
GR	106.1	640	107.9	700	104	1100	105.5	1140	105.8	1240
GR	108.7	1280	127.6	1310	130	1385	135	1410	135	1435
GR	130	1455	125	1480	125	1730	150	1850	175	2050
ET			9.11		9.11	6.41			370	1700

Cross Section 11.0
Cross Section J (HSMM Draft)

X1	262900	0	0	0	1600	1800	1700	1 0	2 2	
ET			9.11		9.1	10.41			1660	3130

Cross Section 12.0
Cross Section K (HSMM Draft)

X1	264500	24	1660	3130	1750	1450	1600			
GR	175	1	170	140	165	250	160	900	155	1065
GR	150	1160	145	1200	137	1400	137	1659	137	1660
GR	140	1810	140	1890	138	1900	117	2005	108.5	2050
GR	110.8	2130	108.9	2490	111.5	2700	116.7	2830	130	2850
GR	143.6	3130	158.9	3165	158.2	3183	175	3210		
ET			9.11		9.1	10.41		3130	1660	3130
X1	264600	0	0	0	100	100	100			
X3	10							159.7	159.7	
BT	6	1	175	0	1660	160.5	153.4	2490	162.5	155.4
BT	3130	160.7	153.5	3165	160.7	158.9	3210	175	0	
SB	1.25	1.25	2.5	0	770	64.3	47517	8		
			9.11		9.1	12.41		3130	1660	3130
	264750				150	150	150			
X2			1	155.4	159.7					
X3	10							159.7	159.7	
BT	5	1	175	0	1660	160.5	153.4	2490	162.5	155.4
BT	3130	160.7	153.5	3210	175	0				
NC	.065	.065	.030	.1	.3	10.41				
ET			9.11		9.1	25.41		2285	709	2285

Cross Section 13.0
Cross Section L (HSMM Draft)

X1	265200	35	1220	2285	450	450	450			
GR	180	1	175	55	170	170	165	260	160	290
GR	155	310	150	340	145	360	140	415	135	440
GR	130	475	130	770	135	810	135	960	135	1100
GR	139.9	1200	139.9	1220	139.9	1270	130.7	1345	120	1353
GR	112.8	1380	110.5	1420	112.6	1490	111	1525	112.5	1545
GR	113.5	1575	113.8	1810	114.5	1850	112.4	1890	114.6	2075

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GR   114.6      2110     115.6      2185      118.5      2208       135       2235      164.5      2285
      At USGS gage   channel measurements from USGS 11-5-41 survey

NC     065       .065      .030        .1         .3
ET      0.         0.      9.11        0.        9.1       2.41        0.       5472      4303      5472
     12  364000  256000  272000  311000  303000  231000  142000  155000  135000
  214700  252900  356600
QT       5     292000    292000    292000    292000    292000
X1   266750      72.    4595.       5471      1650      1450      1550                0.
GR   175      3595      150       3725      150.      3895      155.      3915      160.      3935.
GR   160.     4000.     155.      4085.     150.      4105.     145.      4145.     145.      4455.
GR   145.     4575.     138.6     4595.       138       4660     118.22     4670     114.72     4690
GR   113.02     4710    111.12      4735     108.22     4760     109.72     4785     108.92     4810
GR   108.22     4835    110.02      4850     109.72     4910     110.72     4935     110.42     4960
GR   111.22     5035    112.22      5060     112.62     5085     112.62     5110     112.62     5135
GR   113.32     5160    112.62      5185     112.92     5210     112.72     5260     112.62     5285
GR   111.42     5310    110.62      5335     112.12     5360     117.22     5385     111.5      5470
GR     143      5471      144      5562.4      146.     5591.7      148.     5606.1      150.      5614.
GR    152.     5623.3     154.     5633.3      156.     5642.6      158.     5652.4      160.     5662.1
GR    162.     5670.8     162.     5712.6      160.     5778.4      158.     5889.3      158.     5963.1
GR    160.      6054      162.     6150.4      164.      6225.      166.     6276.4      168.     6347.4
GR    170.     6397.3     172.     6417.3      174.     6447.7      176.     6473.2      178.     6497.9
GR    180.     6531.      182.     6548.3      184.     6606.1      186.     6657.1      188.     6707.
GR    190.     6741.5     192.     6779.5       0.        0.        0.        0.        0.        0.

NC    .065       .065     0.030        1         .3
RT      0.         0.      9.11        0.        9.1       7.41        0.     5479.38     4300      5480

            Cross Section 14.0
            Cross Section M (HSMM Draft)

X1   266900     56       4595.     5405.       150       150       150                0.
GR   175.     3595      150.      3725.     150.      3895.     155.      3915.     160.      3935.
     160.     4000.     155.      4085.     150.      4105.     145.      4145.     145.      4455.
GR   145.     4575.     138.6     4595.     118.3     4643.     107.      4815.     105.8     4870.
GR   110.1    4985      110.09    5000.     110       5095.     111.9     5205.     111.5     5300.
GR   113.3    5350.     138.      5368.2    140       5373.4    142.      5378.4    142.29    5405.
GR   144.     5562.4    146.      5591.7    148.      5606.1    150.      5614.     152.      5623.3
GR   154.     5633.3    156.      5642.6    158.      5652.4    160.      5662.1    162.      5670.8
GR   162.     5712.6    160.      5778.4    158       5889.3    158       5963.1    160.      6054.
GR   162.     6150.4    164.      6225.     166.      6276.4    168.      6347.4    170.      6397.3
GR   172.     6417.3    174.      6447.7    176.      6473.2    178.      6497.9    180.      6531.
GR   182.     6548.3    184.      6606.1    186.      6657.1    188.      6707.     190.      6741.5
GR   192.     6779.5    0.        0.        0.        0.        0.        0.        0.        0.
```

THE (-) WAS REMOVED FROM 1.06 FACTOR IN FIELD 8 DUE THAT THE PROGRAM WILL NOT RUN WITH A (-) VALUE IN THIS FIELD

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	0.	0.	12.41	0.	9.41	12.41	0.	2231.3		
X1	267400	13	775	2105	500	500	500	1.06	-3.6	0
GR	180	0	135	775	132.2	810	119.7	850	115.2	945
GR	117	1400	118	2045	138.1	2105	116.5	2200	150	2240
GR	160	2270	165	2330	175	2700	0	0	0	0
NC	0.095	0.095	0.03	0.30	0.50	0	0	0	0	0
RT	0.	0	9.11	0.	9.41	3.41	0.	5525	4475	5525

Cross Section 15.0
Cross Section N (HSMM Draft)

X1	267750	35	4475	5525.	350	350.	350.			
X3	10.							163.5	163.5	
GR	175.	3475.	150.	3605.	150.	3775.	155.	3795.	160.	3815.
GR	160.	3880.	155.	3965.	150.	3985.	145.	4025.	145.	4335.
GR	145	4455	138.6	4475.	118.3	4523.	107	4695	105.8	4750
GR	110.1	4865	110.	4975.	110.43	5000.	111.9	5085	111.5	5180
GR	113.3	5230.	127.3	5272.	135.	5285.	150.	5525.	152.	5775.3
GR	154.	5785.	156.	5793.8	158.	5803.3	160.	5811.8	162.	5860.6
GR	164	5938.6	166.	6063.5	168	6081.5	170	6118.2	172.	6199.4

SB	1.25	1.25	2.50	0	1240	120	54110	0	116	116
BT	0.		9.11	0	7.1	9.1	0	2000	563	2000
X1	267850	39	563	2000	100	100	100	0	0	0
X2	0	0	1.0	160	165	0	0	0	0.934	0
X3	10	0	0	0	0	0	0	163.5	163.5	0
BT	6	1	180	0	820	165	160	1400	167.3	160
BT	2060	165	160	2200	163.5	0	2700	175	0	0
GR	170.5	1	169.9	68	158.5	115	141.7	145	137.4	168
	135.3	195	135.3	225	136.7	265	138.8	295	152.8	320
	155.8	330	155.8	345	137.6	385	136	400	132	522
GR	132.5	525	131.0	532	130.0	563	121	575	119.1	592
GR	119.2	628	120.9	682	118	800	118.3	900	117.5	950
GR	118.5	1100	120.5	1200	118.8	1478	115.5	1580	115.2	1602
GR	115.5	1655	117.5	1715	116.0	1810	116.8	1875	119.0	1925
GR	122.7	1935	123.2	1950	129.5	2000	175.0	2400	0	0

	.065	.065	.03	0.1	0.3					
NC	.065	065	03	0.3	0.5					
NH	3	.095	4260	.03	5915	.095	6532.7			
BI	0.	0.	12.41	0.	9.1	12.41	0	5915	4260	5915

Cross Section 17.0
Cross Section P (HSMM Draft)

X1	268920	75.	4260.	5915.	1400.	800.	1070.		0.	
X3	10.							155.7	0	
GR	170.5	3915.	169.9	3983.	158.5	4030.	141.7	4060	137.4	4083
GR	135.3	4110.	135.3	4140.	136.8	4180.	138.8	4210.	153.	4235.
GR	155.8	4245.	155.8	4260.	137.5	4300.	136.	4315.	132.	4437.
GR	132.5	4440	130.8	4447.	130.	4478.	121.2	4490	119.6	4507
GR	119.6	4543	134.	4560.	120.9	4597.	118.	4715.	118.5	4765
GR	117.5	4865.	118.8	4965.	118.59	5000.	118.5	5015.	120.8	5115.
GR	133.8	5157.	137.	5200.	147.	5237.	147.	5260.	140.4	5275.
GR	135.9	5315	122.8	5390	118.8	5393.	115.5	5495	115.1	5520
GR	115.5	5565	117.5	5630.	116.	5720.	116.8	5790	119.	5840
GR	122.6	5850.	123.3	5865.	129.5	5915.	130.	5973.9	132.	5988.2
GR	134.	6002.9	136.	6013.2	138.	6017.9	140.	6021.2	142.	6024.9
GR	144.	6027.8	146.	6031.1	148.	6034.8	150.	6037.8	152.	6041.1
GR	154	6044.9	156.	6049.	158.	6053.4	160.	6059.3	162.	6063.7
GR	164.	6068.2	166.	6072.9	168.	6081.2	170.	6126.6	172.	6163.6
GR	174.	6210.6	176.	6247.2	176.	6330.	176.	6355.3	178.	6532.7

NC	.095	.095	.03	.3	.5					
	.095	.095	.03	.1	.3	.1, .3 not appropriate d bridge				
BT	0.	0.	9.11	0.	9.1	12.41	0.	2248	600	2248

Cross Section Q

X1	269250	96	600	2248	100	600	330			
BT	22	1	190.5	190.5	200	185	181.5	300	182.5	179
BT	422	180.2	174.5	520.0	178.5	172.5	600	177.6	171.6	661
BT	177	171	802	176	170	921	175.8	169.8	1021	175.8
BT	169.8	1161	175.8	169.8	1302	175.8	169.8	1661	175.5	170
BT	1802	175.2	170.5	1921	177.2	171.5	1987	178.5	174.8	2061
BT	179.9	176.0	2136	181.5	177.7	2211	183.0	179.4	2248	184
	180.4	2286	185	181.4	2366	187	187.0			
GR	190.5	1	188.2	70	153.5	116	183.6	116	183.2	126
GR	152.6	126	132.8	190	181.8	190	181.4	200	130.0	200
GR	129.2	252	133.0	300	179.0	300	178.8	310	143.5	310
GR	156.0	329	155.8	340	139.0	350	146.0	360	137.0	392
GR	134.0	412	174.5	412	174.4	422	133.0	422	131.2	458
GR	131.2	520	172.8	520	172.7	531	131.1	531	134.5	565
GR	134.0	600	123.8	661	171.0	661	171.0	671	123.0	671
GR	119.5	802	170.0	802	170.0	812	119.4	812	120.5	911
GR	170.0	911	169.8	921	120.0	921	120.1	1021	169.6	1021
GR	169.5	1031	120.5	1031	120.1	1161	169.5	1161	169.5	1171
GR	170.0	1171	121.5	1302	169.5	1302	169.5	1312	121.5	1312
GR	121.7	1340	137.8	1357	136.0	1411	169.5	1411	169.5	1421
GR	134.8	1421	123.8	1505	127.2	1520	169.5	1520	169.5	1530
GR	123.0	1530	121.0	1661	169.8	1661	169.8	1671	121.0	1671
GR	170.6	1802	170.1	1802	170.1	1812	121.0	1812	121.5	1911
GR	171.5	1911	171.5	1921	121.5	1921	120.8	1987	174.5	1992
GR	119.0	1997	122.0	2061	176.0	2061	176.2	2071	121.8	2071
GR	125.2	2136	177.6	2141	125.7	2146	131.5	2211	179.5	2216
GR	132.8	2221	135.8	2248	152.2	2286	181.4	2291	153.5	2296

GR 187.0 2366

ET	0.	0.	9.11	0.	9.1	12.41	0.	2248	600	2248
NC				.3	.5					
X1	269300	0	0	0	50	50	50	0	0	0
X2	0	0	0	0	0	0	1	0	0	0

ET	0.	0.	9.11	0.	9.1	12.41	0.	6165	3835	6165
	0	0	0	.1	.3	0	0	0	0	0
NC	0	0	0	.3	.5	0	0	0	0	0
NH	3	.095	3835	.03	6165	.095	6415	0	0	0

Cross Section 19.0
Cross Section R (HSMM Draft)

X1	270450	71	3835	6165	1200	1100	1150		0.	
X3	10.							158.3	0.	
GR	174.	3055.	170.	3145.	165.	3185.	160.	3365.	158.3	3655.
GR	148	3665	144	3675	138	3755	150	3830	158.2	3835
GR	157	3850	157.1	3863	145	3890	144.3	3920	128	4035
GR	127.5	4065.	125.	4155.	125.7	4255.	126.6	4360.	132.8	4410.
GR	133.6	4455.	126.5	4473.	126.5	4510.	132.4	4517.	132.4	4530.
GR	126	4545.	123.5	4605	124	4745	126.6	4797	139	4825.
GR	142.5	4855.	129.4	4897	124.5	4905	124.5	4923	125.7	4990.
GR	132.35	5000.	137.	5007.	137.2	5020.	142.8	5040.	142.2	5055.
GR	144.	5105.	140.	5120.	148.5	5147.	150.5	5230.	141.	5247.
GR	142	5255	138.1	5283.	138.4	5301.	140.6	5310	138.6	5340.
GR	138.5	5360	128.5	5396.	124.1	5398.	125.5	5529	132	5547.
GR	134.	5555.	132.5	5590.	127.	5605.	136.	5633.	136.1	5673.
GR	127.5	5729.	124.	5761.	122.8	5833.	115.6	5863.	128.	5969.2
GR	130	5985.9	132	6002.4	134	6049.2	136	6087.1	145.27	6165
GR	175.	6415.	0	0.	0.	0.	0.	0.	0.	0.

NH	3	.095	2970	.03	5300	.095	5595	0	0	0
NC				.3	.5					
ET			9.11		9.1	13.41		5300	2970	5300

Cross Section 20.0
Cross Section S (HSMM Draft)
Confluence of the Broad and Saluda Rivers
Upstream Limit of Detailed Study

X1	272010	89.	2970.	5300.	1560.	1560.	1560.		0.	
GR	175.	2190.1	171.	2280	166.	2320	161.	2500	159.3	2790.
GR	149.	2800.	145.	2810	139.	2890	151.	2965.	159.2	2970.
GR	158.	2985.	158.1	2998.	146.	3025.	145.3	3055.	129.	3170.
GR	128.5	3200.	126.	3290.	126.7	3390.	127.6	3495.	133.8	3545.
GR	134.6	3590.	127.5	3608	127.5	3645.	133.4	3652.	133.4	3665.
GR	127.	3680.	124.5	3740	125.	3880.	127.6	3932.	140.	3960.
GR	143.5	3990.	130.4	4032.	125.5	4040.	125.5	4058.	126.7	4125.
GR	138.	4142.	138.2	4155.	143.8	4175.	143.2	4190.	145.	4240.
GR	141.	4255.	149.5	4282	151.5	4365.	142.	4382.	143.	4390.

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GR	139.1	4418.	139.4	4436.	141.6	4445.	139.6	4475.	139.5	4495.
C	129.5	4531.	125.1	4533.	12o.5	4664.	133.	4682.	135.	4690.
GR	133.5	4725.	128.	4740.	137	4768.	137.1	4808.	128.5	4864.
GR	125.	4896.	123.8	4968.	116.6	4998.	116.61	5000.	117.	5108.
GR	116.1	5172.	122.	5235.	133.	5300.	132.	5320.	134.	5330.
GR	136.	5335.	138.	5345.	140.	5480.	142.	5495.	144.	5505.
GR	146.	5510.	148.	5515.	150	5520.	152.	5530.	154.	5535.
GR	156.	5540.	158.	5545.	160.	5550.	162.	5560.	164.	5565.
GR	166.	5570.	168.	5580.	170.	5585.	174.	5595.	0.	0.

20OCT00 07:04:53

T1 Richland and Lexington , SC FIS models
T2 Stream Name: Congaree River
T3 Floodway Qgage 292000 Set-2 equal conv

J1	ICHRCK	INQ	NINV	IDTR	STRT	MRTRIC	HVINS	Q	WSEL	FQ
		6							128.19	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2	0	-1							

THIS RUN EXECUTED 20OCT00 07:07:26

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

100-year flood Q gage

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PRRENC	STENCL	STCHL	STCHR	STENCR
212950.000	127.24	-6.26	127.67	24283.63	173978.20	115986.40	8435.40	.00	.00	22200.00	22750.00	.00
212950.000	128.19	.95	128.66	13835.22	174405.30	121630.50	2364.28	.12	9139.38	22200.00	22750.00	22974.60
215700.000	128.82	.00	129.18	23170.54	174728.20	113348.70	10323.11	.00	.00	22200.00	22750.00	.00
215700.000	129.72	.90	130.04	14884.36	182243.20	111354.40	4802.45	.04	8030.57	22200.00	22750.00	22914.93
226700.000	131.79	.00	132.06	21948.70	60775.50	116157.40	121467.10	.00	.00	19665.00	20334.00	.00
226700.000	132.44	.65	132.75	14155.75	56014.16	121631.20	120754.70	.09	10452.84	19665.00	20334.00	24758.76
234100.000	133.89	.00	134.32	25282.92	67637.71	172034.80	58727.46	.00	.00	19585.00	20415.00	.00
234100.000	134.64	.75	135.18	16386.58	67079.16	188561.60	42759.24	17106.00	5550.00	19585.00	20415.00	22656.00
238900.000	135.29	.00	135.54	23928.12	101799.10	146683.40	49917.54	.00	.00	29870.00	30700.00	.00
238900.000	136.22	.94	136.52	15937.73	97521.06	157397.50	43481.48	16065.00	19835.00	29870.00	30700.00	35900.00
239370.000	135.37	.00	135.66	23931.56	96629.76	154043.10	47727.12	.00	.00	29870.00	30700.00	.00
239370.000	136.30	.93	136.65	14613.38	92125.52	166097.40	40177.12	14740.00	21160.00	29870.00	30700.00	35900.00
239800.000	135.41	.00	135.82	19141.40	74223.35	170312.10	53864.52	.00	.00	9575.00	10425.00	.00
239800.000	136.39	.98	136.78	15050.72	71249.30	170731.00	56419.74	15140.00	560.00	9575.00	10425.00	15700.00
241500.000	135.82	.00	136.32	23311.41	57543.82	190375.80	50480.38	.00	.00	12275.00	13125.00	.00
241500.000	136.73	.91	137.28	12253.06	52704.43	200941.40	44754.18	.08	6333.63	12275.00	13125.00	18696.50
241850.000	135.91	.00	136.41	23162.56	60073.79	191129.70	47196.51	.00	.00	12275.00	13125.00	.00
241850.000	136.82	.91	137.38	12418.91	55574.80	201713.30	41111.94	.08	6193.04	12275.00	13125.00	18870.63
242049.000	136.13	.00	136.50	14595.06	33357.87	140127.40	124914.70	.00	.00	10815.00	12065.00	.00
242049.000	137.08	.94	137.48	8615.55	27058.48	143794.70	127546.80	11700.00	5540.00	10815.00	12065.00	17240.00
242050.000	136.13	.00	136.51	6270.99	33949.19	141553.90	122896.90	.00	.00	10815.00	12065.00	.00
242050.000	137.08	.95	137.48	4798.54	29593.51	144379.80	124426.70	11700.00	5540.00	10815.00	12065.00	17240.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
242120.000	136.15	.00	136.53	6271.70	33959.89	141466.70	122973.40	.00	.00	10815.00	12065.00	.00
242120.000	137.10	.95	137.50	4799.33	29610.03	144262.80	124527.20	11700.00	5540.00	10815.00	12065.00	17240.00
242121.000	136.15	.00	136.53	14592.66	33968.47	141446.70	122984.80	.00	.00	10815.00	12065.00	.00
242121.000	137.11	.96	137.50	8615.98	30873.16	143607.40	123919.40	11700.00	5540.00	10815.00	12065.00	17240.00
242169.000	136.19	.00	136.55	14593.29	36909.49	139708.50	121782.00	.00	.00	10793.00	12065.00	.00
242169.000	137.15	.96	137.52	8616.06	34147.75	141633.40	122618.90	11700.00	5540.00	10793.00	12065.00	17240.00
242170.000	136.18	.00	136.55	6272.43	33990.26	141232.30	123177.50	.00	.00	10793.00	12065.00	.00
242170.000	137.13	.95	137.53	4799.43	29632.59	144086.40	124681.00	11700.00	5540.00	10793.00	12065.00	17240.00
242240.000	136.20	.00	136.58	6174.10	34046.51	141287.00	123066.50	.00	.00	10806.00	12065.00	.00
242240.000	137.16	.96	137.55	4808.18	29659.28	143940.90	124799.80	11700.00	5540.00	10806.00	12065.00	17240.00
242241.000	136.18	.00	136.60	14599.62	23013.89	147098.20	128287.90	.00	.00	10806.00	12065.00	.00
242241.000	137.14	.96	137.57	8624.06	20801.01	148746.60	128852.40	11700.00	5540.00	10806.00	12065.00	17240.00
242440.000	136.30	.00	136.68	23040.98	80729.44	164257.50	53413.08	.00	.00	11900.00	12825.00	.00
242440.000	137.24	.94	137.64	12009.69	82918.25	170880.20	44601.54	12060.00	5540.00	11900.00	12825.00	17600.00
243000.000	136.61	.00	136.86	22909.76	97198.05	138627.30	62574.68	.00	.00	12000.00	12825.00	.00
243000.000	137.48	.87	137.83	10892.32	90817.09	155085.50	52497.38	.14	6450.38	12000.00	12825.00	17888.48
245600.000	137.25	.00	137.45	23011.18	137175.20	113245.50	47979.36	.00	.00	12000.00	12825.00	.00
* 245800.000	138.25	.96	138.39	11268.03	143487.10	112775.80	42137.13	11720.00	5580.00	12000.00	12825.00	17300.00
246000.000	137.35	.00	137.46	23052.53	141757.70	103747.40	52894.91	.00	.00	12000.00	12825.00	.00
246000.000	138.28	.93	138.42	11158.09	142844.70	112109.70	43445.62	.11	5586.51	12000.00	12825.00	17159.18
246700.000	137.47	.00	137.57	20951.27	179720.80	92323.02	26356.22	.00	.00	14587.00	15413.00	.00
246700.000	138.37	.93	138.56	9816.95	160658.50	113960.30	23781.19	9900.00	8900.00	14587.00	15413.00	18800.00
247000.000	137.41	.00	137.68	19910.99	110056.50	142640.30	45703.19	.00	.00	18900.00	19725.00	.00
247000.000	138.36	.95	138.67	10533.17	111045.50	151286.80	36067.73	.11	12723.08	18900.00	19725.00	23280.78
247200.000	137.43	.00	137.74	18239.37	114540.60	143393.20	38464.21	.00	.00	18900.00	19725.00	.00
247200.000	138.43	.98	138.72	10845.95	117845.70	149060.60	31493.74	.08	12436.90	18900.00	19725.00	23305.72
248200.000	137.70	.00	138.01	14484.24	114862.30	137056.70	46481.05	.00	.00	13000.00	13676.00	.00
248200.000	138.68	.98	138.97	11179.75	120224.00	134243.00	43933.00	.03	6336.94	13000.00	13676.00	17584.46
249300.000	136.06	.00	138.27	11657.99	95377.69	109599.90	93422.45	.00	.00	9662.00	10338.00	.00
249300.000	138.97	.88	139.23	9740.00	89606.09	126334.00	82459.89	.18	4219.32	9662.00	10338.00	13996.07
249590.000	138.03	.00	138.40	14769.35	99959.59	142885.20	55555.16	.00	.00	13000.00	13676.00	.00
249590.000	138.92	.89	139.37	9571.98	99489.99	154650.20	44259.81	.12	7575.04	13000.00	13676.00	17209.03
250770.000	138.20	.00	139.02	9932.43	75547.26	162759.60	39693.23	.00	.00	6089.00	6695.00	.00
250770.000	139.11	.91	140.01	7719.65	76376.80	191162.70	30910.51	.09	1618.87	6089.00	6695.00	10225.15

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QPOB	PERENC	STENCL	STCHL	STCHR	STENCR
253400.000 253400.000	139.24 140.21	.00 .97	141.25 142.08	9293.62 4321.34	42817.03 47093.35	249354.40 247625.40	6227.96 3681.27	.00 4372.00	.00 7628.00	9697.00 9697.00	10303.00 10303.00	.00 12000.00
254500.000 254500.000	139.85 140.69	.00 .84	143.20 143.97	3463.26 619.30	.00 .00	295553.20 298400.00	2846.80 .00	.00 .01	.00 4685.00	4685.00 4685.00	5315.00 5315.00	.00 5315.00
254600.000 254600.000	140.14 140.88	.00 .74	143.38 144.12	3756.36 619.72	.00 .00	293864.10 298400.00	4535.92 .00	.00 .02	.00 4685.00	4685.00 4685.00	5315.00 5315.00	.00 5315.00
255100.000 255100.000	141.15 141.72	.00 .58	144.11 144.81	3587.93 621.53	.62 .00	290748.20 298400.00	7651.22 .00	.00 .03	.00 4685.00	4685.00 4685.00	5315.00 5315.00	.00 5315.00
256100.000 256100.000	142.62 143.24	.00 .62	145.32 146.07	4467.33 625.64	766.06 .00	290627.60 298400.00	6966.35 .00	.00 .03	.00 4685.00	4685.00 4685.00	5315.00 5315.00	.00 5315.00
257200.000 257200.000	144.02 144.63	.00 .61	146.49 147.25	4871.30 632.34	1793.50 .00	289419.30 298342.50	7187.18 57.45	.00 .01	.00 4685.00	4685.00 4685.00	5315.00 5315.00	.00 5318.52
258400.000 258400.000	144.31 145.35	.00 .64	147.91 148.66	2277.99 601.58	3178.10 2495.50	277326.60 287863.40	12865.20 13041.05	.00 .02	.00 6172.58	6209.00 6209.00	6665.00 6665.00	.00 6774.17
259600.000 259600.000	145.92 146.54	.00 .62	149.05 149.77	2418.51 612.41	5831.02 3002.73	276230.40 281578.90	16237.66 13818.38	.00 .02	.00 6166.38	6209.00 6209.00	6665.00 6665.00	.00 6778.79
260100.000 260100.000	146.44 147.03	.00 .59	149.46 150.20	2471.16 605.32	6063.23 3036.41	275737.00 281862.40	16579.76 13511.15	.00 .03	.00 6168.50	6209.00 6209.00	6665.00 6665.00	.00 6773.82
* 260400.000 * 260400.000	148.75 149.17	.00 .42	149.79 150.51	2530.30 1082.18	38641.11 15107.65	258437.00 283290.30	1321.92 .00	.00 .11	.00 5606.82	6000.00 6000.00	6689.00 6689.00	.00 6689.00
260500.000 260500.000	148.71 149.22	.00 .51	150.08 150.55	895.00 895.00	.00 .00	295400.00 298400.00	.00 .00	.00 895.00	.00 1570.00	1570.00 1570.00	2465.00 2465.00	.00 2465.00
260550.000 260550.000	149.13 149.62	.00 .49	150.47 150.92	895.00 895.00	.00 .00	298400.00 298400.00	.00 .00	.00 895.00	.00 1570.00	1570.00 1570.00	2465.00 2465.00	.00 2465.00
260600.000 260600.000	149.15 149.64	.00 .49	150.48 150.93	895.00 895.00	.00 .00	298400.00 298400.00	.00 .00	.00 895.00	.00 1570.00	1570.00 1570.00	2465.00 2465.00	.00 2465.00
260700.000 260700.000	149.80 150.17	.00 .36	150.56 151.01	1418.97 1220.00	.00 .00	298400.00 298400.00	.00 .00	.00 1220.00	.00 1510.00	1000.00 1000.00	2730.00 2730.00	.00 2730.00
260730.000 260730.000	149.81 150.18	.00 .36	150.57 151.03	1419.04 1220.00	.00 .00	298400.00 298400.00	.00 .00	.00 1220.00	.00 1510.00	1000.00 1000.00	2730.00 2730.00	.00 2730.00
260800.000 260800.000	150.03 150.42	.00 .39	150.78 151.25	1422.09 1220.00	.00 .00	298400.00 298400.00	.00 .00	.00 1220.00	.00 1510.00	1000.00 1000.00	2730.00 2730.00	.00 2730.00
261200.000 261200.000	150.10 150.49	.00 .39	150.87 151.34	1691.13 1315.00	3169.84 .00	270611.10 287251.10	22019.26 16146.90	.00 .04	.00 370.00	370.00 370.00	1435.00 1435.00	.00 1685.01

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	FERENC	STENCL	STCHL	STCHR	STENCR
262900.000	150.40	.00	151.27	1765.95	4665.95	272442.60	21091.44	.00	.00	370.00	1435.00	.00
262900.000	150.82	.42	151.75	1388.26	399.22	280823.20	17177.63	.03	322.30	370.00	1435.00	1710.56
264500.000	150.97	.00	151.64	2005.24	10001.77	288352.60	45.65	.00	.00	1660.00	3130.00	.00
264500.000	151.41	.44	152.13	1470.00	.00	298400.00	.00	.04	1660.00	1660.00	3130.00	3130.00
264600.000	150.94	.00	151.69	1470.00	.00	298400.00	.00	.00	.00	1660.00	3130.00	.00
264600.000	151.43	.49	152.15	1470.00	.00	298400.00	.00	.00	1660.00	1660.00	3130.00	3130.00
264750.000	151.03	.00	151.77	1470.00	.00	298400.00	.00	.00	.00	1660.00	3130.00	.00
264750.000	151.52	.49	152.24	1470.00	.00	298400.00	.00	.00	1660.00	1660.00	3130.00	3130.00
265200.000	151.09	.00	151.69	1926.79	33965.50	264434.50	.00	.00	.00	1220.00	2285.00	.00
265200.000	151.35	.26	152.46	1087.96	900.92	297499.10	.00	.12	1174.75	1220.00	2285.00	2285.00
266750.000	151.20	.00	152.38	1700.41	3919.83	286744.10	1336.12	.00	.00	4595.00	5471.00	.00
266750.000	151.72	.52	152.90	1184.61	2874.03	289126.00	.00	.01	4286.39	4595.00	5471.00	5471.00
266900.000	151.14	.00	152.47	1699.35	3972.13	285766.30	2161.62	.00	.00	4595.00	5405.00	.00
266900.000	151.62	.48	153.00	810.00	.00	292000.00	.00	.02	4595.00	4595.00	5405.00	5405.00
* 267400.000	152.19	.00	152.63	1950.87	4169.49	285828.90	2001.60	.00	.00	821.50	2231.30	.00
* 267400.000	152.71	.52	153.17	1409.80	.00	292000.00	.00	.02	821.50	821.50	2231.30	2231.30
* 267750.000	151.90	.00	153.03	1050.00	.00	292000.00	.00	.00	.00	4475.00	5525.00	.00
* 267750.000	152.45	.55	153.54	1050.00	.00	292000.00	.00	.00	4475.00	4475.00	5525.00	5525.00
* 267850.000	151.90	.00	153.03	1437.00	.00	292000.00	.00	.00	.00	563.00	2000.00	.00
* 267850.000	152.45	.55	153.54	1437.00	.00	292000.00	.00	1437.00	563.00	563.00	2000.00	2000.00
268920.000	152.64	.00	153.20	1775.37	.00	288376.40	3623.63	.00	.00	4260.00	5915.00	.00
268920.000	153.15	.51	153.71	1649.20	.00	292000.00	.00	.01	4260.00	4260.00	5915.00	5915.00
269250.000	152.70	.00	153.29	1966.77	11572.91	280054.90	372.16	.00	.00	600.00	2248.00	.00
* 269250.000	153.18	.48	153.83	1513.85	.00	292000.00	.00	.04	600.00	600.00	2248.00	2248.00
269300.000	152.72	.00	153.31	1966.83	11560.35	280046.40	373.24	.00	.00	600.00	2248.00	.00
269300.000	153.20	.49	153.85	1513.86	.00	292000.00	.00	.04	600.00	600.00	2248.00	2248.00
270450.000	153.11	.00	153.64	2358.91	.00	291848.00	151.95	.00	.00	3835.00	6165.00	.00
270450.000	153.69	.59	154.20	2294.40	.00	292000.00	.00	.00	3835.00	3835.00	6165.00	6165.00
272010.000	153.53	.00	153.99	2696.65	1637.08	286052.80	4310.16	.00	.00	2970.00	5300.00	.00
272010.000	154.06	.52	154.52	2292.98	.00	292000.00	.00	.02	2970.00	2970.00	5300.00	5300.00

100-year flood Q gage

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLOC	ELMIN	Q	CWSEL	CRIWS	EG	10*XS	VCH	AREA	.01K
212950.000	.00	.00	.00	92.30	298400.00	127.24	.00	127.67	6.28	8.44	227612.80119878.50	
212950.000	.00	.00	.00	92.30	298400.00	128.19	.00	128.66	6.03	8.43	140829.50121540.80	
215700.000	2750.00	.00	.00	92.30	298400.00	128.82	.00	129.16	4.64	7.00	229717.80132030.10	
215700.000	2750.00	.00	.00	92.30	298400.00	129.72	.00	130.04	4.18	7.30	166418.10145906.00	
226700.000	11000.00	.00	.00	95.60	298400.00	131.79	.00	132.06	3.27	6.26	177832.80165131.60	
226700.000	11000.00	.00	.00	95.60	298400.00	132.44	.00	132.75	3.31	6.50	134050.90161070.30	
234100.000	7400.00	.00	.00	100.10	298400.00	133.83	.00	134.32	3.41	6.91	223882.20181249.40	
234100.000	7400.00	.00	.00	100.10	298400.00	134.64	.00	135.18	3.78	7.39	158877.10153548.70	
238900.000	4800.00	.00	.00	100.10	298400.00	135.29	.00	135.54	2.72	5.79	265677.10200771.00	
238900.000	4800.00	.00	.00	100.10	298400.00	136.22	.00	136.52	2.32	5.94	200703.30196119.60	
239470.000	470.00	.00	.00	100.15	298400.00	135.37	.00	135.80	2.44	5.56	288459.30191036.10	
239470.000	470.00	.00	.00	100.15	298400.00	136.30	.00	136.65	2.57	6.26	188117.70186131.60	
239800.000	430.00	.00	.00	100.00	298400.00	135.41	.00	135.82	2.29	5.75	187646.80163627.70	
239800.000	430.00	.00	.00	100.00	298400.00	136.39	.00	136.78	2.96	6.55	177308.30173466.00	
241500.000	1700.00	.00	.00	100.00	298400.00	135.82	.00	136.32	2.50	7.05	245915.30182961.10	
241500.000	1700.00	.00	.00	100.00	298400.00	136.73	.00	137.28	2.70	7.26	147980.40183639.50	
241850.000	350.00	.00	.00	100.00	298400.00	135.91	.00	136.41	2.66	7.09	247582.90182095.40	
241850.000	350.00	.00	.00	100.00	298400.00	136.82	.00	137.38	2.70	7.27	154339.60181725.60	
42049.000	179.00	.00	.00	100.00	298400.00	135.13	.00	135.20	2.04	6.19	170929.60171121.70	
42049.000	179.00	.00	.00	100.00	298400.00	137.08	.00	137.48	2.91	6.10	121471.50175070.00	
242050.000	1.00	145.00	152.00	100.00	298400.00	136.13	.00	136.53	2.80	6.26	83142.86175461.00	
242050.000	1.00	145.00	152.00	100.00	298400.00	137.08	.00	137.48	2.71	6.13	74685.64181251.90	
242120.000	70.00	145.00	152.00	100.00	298400.00	136.15	.00	136.55	2.58	6.22	83250.84175737.40	
242120.000	70.00	145.00	152.00	100.00	298400.00	137.10	.00	137.50	2.70	6.17	74813.97181663.80	
242121.000	1.00	.00	.00	100.00	298400.00	136.15	.00	136.53	2.88	6.25	178609.40175773.60	
242121.000	1.00	.00	.00	100.00	298400.00	137.11	.00	137.50	2.68	6.09	118836.50182437.00	
242169.000	49.00	.00	.00	100.00	298400.00	136.19	.00	136.55	2.61	6.16	170930.70176100.10	
242169.000	49.00	.00	.00	100.00	298400.00	137.15	.00	137.52	2.59	5.99	119282.80185284.40	
242170.000	1.00	145.00	152.00	100.00	298400.00	136.18	.00	136.55	2.87	6.23	83477.93176273.80	
242170.000	1.00	145.00	152.00	100.00	298400.00	137.13	.00	137.53	2.69	6.10	74949.41182047.60	
242240.000	70.00	145.00	152.00	100.00	298400.00	136.20	.00	136.56	2.67	6.22	82793.40176242.00	
242240.000	70.00	145.00	152.00	100.00	298400.00	137.16	.00	137.55	2.68	6.08	75083.59182375.90	

[illegible] 07:04:53

SECNO	XLCH	ELTFD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
242241.000 242241.000	1.00 1.00	.00 .00	.00 .00	100.00 100.00	298400.00 298400.00	136.16 137.14	.00 .00	136.80 137.57	3.12 2.86	8.49 6.29	100374.60 119728.40	10630970.40 10176347.10
242440.000 242440.000	199.00 199.00	.00 .00	.00 .00	100.40 100.40	298400.00 298400.00	136.38 137.24	.00 .00	136.68 137.64	3.64 3.51	6.62 6.66	233724 157317.80	10756505.40 10159317.60
243000.000 243000.000	560.00 560.00	.00 .00	.00 .00	101.50 101.50	298400.00 298400.00	136.81 137.48	.00 .00	136.80 137.83	2.03 3.00	5.69 6.39	243037.60 137864.40	10183361.00 10172371.60
245800.000 245800.000	2800.00 2800.00	.00 .00	.00 .00	101.50 101.50	298400.00 298400.00	137.29 138.25	.00 .00	137.44 138.39	1.61 1.45	4.18 4.53	263444.90 159287.80	10233512.10 10247439.10
246000.000 246000.000	200.00 200.00	.00 .00	.00 .00	101.50 101.50	298400.00 298400.00	137.30 138.28	.00 .00	137.40 138.47	1.30 1.44	4.29 4.50	253482.00 158211.20	10230302.50 10249756.10
246700.000 246700.000	700.00 700.00	.00 .00	.00 .00	101.50 101.50	298400.00 298400.00	137.47 138.37	.00 .00	137.57 138.56	1.68 2.20	4.22 5.01	226139.80 128050.70	10248794.70 10197552.50
247000.000 247000.000	300.00 300.00	.00 .00	.00 .00	101.50 101.50	298400.00 298400.00	137.61 138.36	.00 .00	137.80 138.67	2.30 2.59	3.69 6.05	172216.60 117475.60	10160631.10 10185589.70
247200.000 247200.000	200.00 200.00	.00 .00	.00 .00	101.50 101.50	298400.00 298400.00	137.45 138.43	.00 .00	137.74 138.72	2.64 2.49	6.00 5.95	161244.40 119510.20	10183554.60 10188947.00
248200.000 248200.000	1000.00 1000.00	.00 .00	.00 .00	102.50 102.50	298400.00 298400.00	137.70 138.68	.00 .00	138.01 138.97	2.70 2.49	6.44 6.12	134736.10 132887.80	10179730.10 10194011.90
249300.000 249300.000	1100.00 1100.00	.00 .00	.00 .00	103.60 103.60	298400.00 298400.00	138.08 138.97	.00 .00	138.27 139.23	1.90 2.30	5.23 5.90	178877.30 111558.60	10216543.10 10196921.50
249590.000 249590.000	290.00 290.00	.00 .00	.00 .00	103.60 103.60	298400.00 298400.00	138.03 138.92	.00 .00	138.40 139.37	3.29 3.47	8.69 7.24	100391.40 110936.80	10165365.30 10160709.00
250770.000 250770.000	1180.00 1180.00	.00 .00	.00 .00	100.40 100.40	298400.00 298400.00	138.28 139.11	.00 .00	139.02 140.01	5.42 5.42	9.21 9.38	97342.98 77887.55	10128143.80 10128216.30
253400.000 253400.000	2630.00 2630.00	.00 .00	.00 .00	101.10 101.10	298400.00 298400.00	139.24 140.21	.00 .00	141.23 142.08	8.74 8.72	12.44 12.00	66161.13 42944.95	9302429.30 10101842.50
254500.000 254500.000	1100.00 1100.00	.00 .00	.00 .00	101.40 101.40	298400.00 298400.00	139.85 140.69	.00 .00	143.28 143.97	14.26 13.78	14.76 14.53	30048.61 20539.61	79828.82 80390.73
254600.000 254600.000	100.00 100.00	.00 .00	.00 .00	101.40 101.40	298400.00 298400.00	140.14 140.88	.00 .00	143.38 144.32	13.70 13.55	14.33 14.45	31092.33 20652.52	80611.30 81075.76
255100.000 255100.000	500.00 500.00	.00 .00	.00 .00	101.45 101.45	298400.00 298400.00	141.15 141.72	.00 .00	144.11 144.81	12.24 12.59	13.98 14.11	32058.02 21147.87	85293.52 84102.81
256100.000 256100.000	1000.00 1000.00	.00 .00	.00 .00	101.45 101.45	298400.00 298400.00	142.62 143.24	.00 .00	145.32 146.07	10.83 10.97	13.36 13.49	33071.47 22118.28	91427.41 90891.51

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
257200.000	1100.00	.00	.00	101.45	298400.00	144.62	.00	146.49	9.33	12.60	33609.51	97707.31
257200.000	1100.00	.00	.00	101.45	298400.00	144.63	.00	147.25	9.40	12.98	23052.33	97345.73
258400.000	1200.00	.00	.00	101.40	298400.00	144.51	.00	147.91	9.00	15.34	34369.04	95341.73
258400.000	1200.00	.00	.00	101.40	298400.00	145.15	.00	148.66	9.64	15.38	21589.51	96084.39
259600.000	1200.00	.00	.00	101.40	298400.00	145.52	.00	149.03	8.94	14.74	37000.68101313.80	
259600.000	1200.00	.00	.00	101.40	298400.00	146.54	.00	149.77	8.54	14.80	22617.70102173.90	
260100.000	500.00	.00	.00	101.40	298400.00	146.44	.00	149.48	8.25	14.54	38952.93104876.90	
260100.000	500.00	.00	.00	101.40	298400.00	147.03	.00	150.20	8.23	14.65	22778.96104027.80	
260400.000	300.00	.00	.00	99.80	298400.00	148.73	.00	149.73	2.14	6.77	51303.39204066.10	
260400.000	300.00	.00	.00	99.80	298400.00	149.17	.00	150.51	2.62	9.51	36251.11184100.50	
260500.000	100.00	.00	.00	104.30	298400.00	148.71	.00	150.00	2.70	9.38	31836.65169437.70	
260500.000	100.00	.00	.00	104.30	298400.00	149.22	.00	150.55	3.00	9.24	32287.28172366.50	
260550.000	50.00	165.50	156.80	104.30	298400.00	149.15	.00	150.47	2.90	9.27	32204.38172795.80	
260550.000	50.00	165.50	156.80	104.30	298400.00	149.67	.00	150.99	2.89	9.14	32647.61175488.90	
260600.000	50.00	.00	.00	104.30	298400.00	149.15	.00	150.48	2.98	9.26	32217.98172611.60	
260600.000	50.00	.00	.00	104.30	298400.00	149.64	.00	150.93	2.89	9.14	32655.79175605.10	
260700.000	100.00	.00	.00	103.70	298400.00	149.60	.00	150.36	2.14	8.99	42664.44203003.60	
260700.000	100.00	.00	.00	103.70	298400.00	150.17	.00	151.01	2.14	7.44	40642.45204844.10	
260730.000	30.00	.00	.00	103.70	298400.00	149.81	.00	150.57	2.14	8.29	47604.55203879.30	
260730.000	30.00	.00	.00	103.70	298400.00	150.18	.00	151.01	2.14	7.34	40661.23203905.00	
260800.000	70.00	170.50	156.00	103.70	298400.00	150.03	.00	150.76	2.10	8.94	45007.22206154.70	
260800.000	70.00	170.50	156.00	103.70	298400.00	150.47	.00	151.25	2.09	7.78	40962.56206375.90	
261200.000	400.00	.00	.00	104.00	298400.00	150.18	.00	150.87	1.96	7.34	49817.26217894.40	
261200.000	400.00	.00	.00	104.00	298400.00	150.49	.00	151.31	2.09	7.56	43503.21206624.00	
262900.000	1700.00	.00	.00	106.20	298400.00	150.40	.00	151.17	2.11	7.62	45563.26192303.50	
262900.000	1700.00	.00	.00	106.20	298400.00	150.82	.00	151.75	2.45	7.95	41961.44190657.50	
264500.000	1600.00	.00	.00	108.50	298400.00	150.97	.00	151.64	2.04	6.70	48867.46208672.00	
264500.000	1600.00	.00	.00	108.50	298400.00	151.41	.00	152.13	2.12	6.83	43679.18204821.00	
264600.000	100.00	160.20	155.40	108.50	298400.00	150.94	.00	151.65	2.19	6.94	42588.59202447.50	
264600.000	100.00	160.50	155.40	108.50	298400.00	151.43	.00	152.15	2.09	6.83	43709.18206377.90	
264750.000	150.00	159.70	155.40	108.50	298400.00	151.03	.00	151.77	2.17	6.92	44178.64201474.90	
264750.000	150.00	159.70	155.40	108.50	298400.00	151.52	.00	152.24	2.06	6.81	43837.74208123.10	
265200.000	450.00	.00	.00	110.50	298400.00	151.09	.00	151.69	2.21	7.56	43600.[illegible]20641.50	
265200.000	450.00	.00	.00	110.50	298400.00	151.54	.00	152.46	2.75	8.46	45713.17188628.90	

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	BG	10*KS	VCH	AREA	.01E
266750.000	1550.00	.00	.00	108.22	292000.00	151.20	.00	152.36	2.72	8.81	36744.70177088.30
266750.000	1550.00	.00	.00	108.22	292000.00	151.72	.00	152.90	2.67	8.76	35145.71178468.60
266900.000	150.00	.00	.00	105.80	292000.00	151.14	.00	152.47	2.89	9.35	35270.91171672.60
266900.000	150.00	.00	.00	105.80	292000.00	151.62	.00	153.00	3.00	9.43	30967.43168566.30
* 267400.000	500.00	.00	.00	111.60	292000.00	152.19	.00	152.63	.94	5.39	56714.12300631.40
* 267400.000	500.00	.00	.00	111.60	292000.00	152.71	.00	153.17	.98	5.43	53774.98295655.10
* 267750.000	350.00	.00	.00	105.80	292000.00	151.90	.00	153.03	2.89	8.54	34187.12171656.30
* 267750.000	350.00	.00	.00	105.80	292000.00	152.45	.00	153.54	2.74	8.40	34765.19176248.50
* 267850.000	100.00	165.00	160.00	115.20	292000.00	151.50	.00	153.03	1.40	6.03	46114.30149102.60
* 267850.000	100.00	165.00	160.00	115.20	292000.00	152.45	.00	153.54	1.35	5.97	48886.70251062.10
268920.000	1070.00	.00	.00	115.10	292000.00	152.64	.00	153.20	1.71	6.05	50051.74273208.90
268920.000	1070.00	.00	.00	115.10	292000.00	153.15	.00	153.71	1.69	6.02	48525.96224828.70
269250.000	330.00	175.20	180.40	119.00	292000.00	152.70	.00	153.13	3.13	6.18	51110.62168871.80
* 269250.000	330.00	175.20	180.40	119.00	292000.00	153.18	.00	153.83	3.44	6.44	45329.29157396.40
269300.000	50.00	175.20	180.40	119.00	292000.00	152.77	.00	153.71	3.25	6.26	52150.53162816.70
269300.000	50.00	175.20	180.40	119.00	292000.00	153.20	.00	153.85	3.44	6.44	45353.27157473.40
270450.000	1150.00	.00	.00	115.60	292000.00	153.21	.00	153.64	2.32	5.64	50267.96181343.00
270450.000	1150.00	.00	.00	115.60	292000.00	153.69	.00	154.20	2.14	5.66	51474.40199661.80
272010.000	1560.00	.00	.00	116.10	292000.00	153.53	.00	153.49	1.90	5.45	57358.65277941.00
272010.000	1560.00	.00	.00	116.10	292000.00	154.06	.00	154.52	1.86	5.41	53672.98214119.70

2000100 07:04:53

10-year flood Q gage

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
212950.000	298400.00	127.24	.00	.00	-6.26	24283.63	.00
212950.000	298400.00	128.19	.95	.00	.95	13835.22	.00
215700.000	298400.00	128.82	.00	1.58	.00	23170.54	2750.00
215700.000	298400.00	129.72	.90	1.53	.90	14884.36	2750.00
226700.000	298400.00	131.75	.00	2.97	.00	21948.70	11000.00
226700.000	298400.00	132.44	.65	2.72	.65	14155.75	11000.00
234100.000	298400.00	133.89	.00	2.10	.00	25782.92	7400.00
234100.000	298400.00	134.64	.75	2.20	.75	16386.58	7400.00
238900.000	298400.00	135.29	.00	1.40	.00	23928.12	4800.00
238900.000	298400.00	136.22	.94	1.59	.94	15937.73	4800.00
239370.000	298400.00	135.37	.00	.08	.00	23931.56	470.00
239370.000	298400.00	136.30	.93	.08	.93	14613.38	470.00
239800.000	298400.00	135.41	.00	.04	.00	19141.40	430.00
239800.000	298400.00	136.39	.98	.09	.98	15050.72	430.00
241500.000	298400.00	135.82	.00	.41	.00	23311.41	1700.00
241500.000	298400.00	136.73	.91	.34	.91	12253.06	1700.00
241850.000	298400.00	135.91	.00	.09	.00	23162.56	350.00
241850.000	298400.00	136.82	.91	.09	.91	12418.91	350.00
242049.000	298400.00	136.13	.00	.22	.00	14595.06	179.00
242049.000	298400.00	137.08	.94	.26	.94	8615.55	179.00
242050.000	298400.00	136.13	.00	.00	.00	6170.99	1.00
242050.000	298400.00	137.08	.95	.00	.95	4798.54	1.00
242120.000	298400.00	136.15	.00	.02	.00	6271.70	70.00
242120.000	298400.00	137.10	.95	.02	.95	4799.33	70.00
242121.000	298400.00	136.15	.00	.00	.00	14592.66	1.00
242121.000	298400.00	137.11	.96	.01	.96	8615.98	1.00
242169.000	298400.00	136.19	.00	.03	.00	14595.29	49.00
242169.000	298400.00	137.15	.96	.03	.96	8616.06	49.00
242170.000	298400.00	136.18	.00	.01	.00	6272.43	1.00
242170.000	298400.00	137.13	.95	.01	.95	4799.43	1.00
242240.000	298400.00	136.20	.00	.02	.00	6174.10	70.00
242240.000	298400.00	137.16	.96	.02	.96	4808.18	70.00

[illegible]	Q	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	298400.00	[illegible]	.00	-.02	.00	14599.62	1.00
212341.000	298400.00	137.14	.96	-.02	.96	8624.06	1.00
[illegible]	298400.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
242440.000	298400.00	137.24	.94	.10	.94	12809.64	199.00
[illegible]	298400.00	[illegible]	.00	.31	.00	[illegible]	560.00
243000.000	298400.00	137.48	.87	.24	.87	10892.32	560.00
[illegible]	298400.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
245500.000	298400.00	138.45	.96	.77	.96	11768.03	2800.00
[illegible]	298400.00	[illegible]	.00	.06	.00	[illegible]	200.00
216000.000	298400.00	138.28	.93	.03	.93	11158.09	200.00
[illegible]	298400.00	[illegible]	.00	.11	.00	[illegible]	[illegible]
[illegible]	298400.00	138.17	.91	.09	.91	9816.45	200.00
[illegible]	298400.00	[illegible]	.00	.06	.00	[illegible]	300.00
247000.000	298400.00	138.36	.95	-.01	.95	10533.17	300.00
[illegible]	298400.00	[illegible]	.00	.04	.00	[illegible]	[illegible]
[illegible]	298400.00	138.43	.96	.07	.96	10645.95	[illegible]
[illegible]	298400.00	[illegible]	.00	.25	.00	14354.74	1000.00
223200.000	298400.00	138.68	.98	.26	.98	11179.75	1000.00
[illegible]	298400.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	298400.00	138.97	.88	.28	.88	4740.00	1100.00
[illegible]	298400.00	[illegible]	.00	-.05	.00	14769.35	290.00
249590.000	298400.00	138.92	.89	-.05	.89	9571.98	290.00
[illegible]	298400.00	[illegible]	.00	.17	.00	[illegible]	[illegible]
[illegible]	298400.00	139.77	.91	.19	.91	7719.65	1180.00
[illegible]	298400.00	[illegible]	.00	1.04	.00	[illegible]	2630.00
253100.000	298400.00	140.21	.97	1.10	.97	4321.34	2630.00
[illegible]	298400.00	[illegible]	.00	.61	.00	3483.28	1100.00
[illegible]	298400.00	140.69	.84	.48	.84	619.18	1100.00
[illegible]	298400.00	140.14	.00	.79	.00	3756.36	100.00
254600.000	298400.00	140.88	.74	.18	.74	619.72	100.00
[illegible]	298400.00	[illegible]	.00	1.01	.00	[illegible]	500.00
[illegible]	298400.00	141.[illegible]	.58	.85	.58	671.53	500.00
[illegible]	298400.00	142.67	.00	1.47	.00	4467.45	1000.00
256100.000	298400.00	143.24	.62	1.52	.62	625.64	1000.00

2000100 07/04/53

SECNO	Q	CWSEN	DIFWSP	DIFWSX	DIFRWS	TOPWID	XLCH
257200.000	298400.00	144.02	.00	1.40	.00	4871.30	1100.00
257200.000	298400.00	144.63	.61	1.39	.61	632.34	1100.00
258400.000	298400.00	144.51	.00	.50	.00	2277.99	1200.00
258400.000	298400.00	145.15	.64	.52	.64	601.58	1200.00
259600.000	298400.00	145.97	.00	1.41	.00	2418.51	1200.00
259600.000	298400.00	146.54	.62	1.39	.62	612.41	1200.00
260100.000	298400.00	146.44	.00	.53	.00	2471.16	500.00
260100.000	298400.00	147.03	.59	.49	.59	605.32	500.00
260400.000	298400.00	148.75	.00	2.31	.00	2530.30	300.00
260400.000	298400.00	149.17	.42	2.14	.42	1082.18	300.00
260500.000	298400.00	148.72	.00	.04	.00	895.00	100.00
260500.000	298400.00	149.22	.51	.05	.51	895.00	100.00
260550.000	298400.00	149.13	.00	.42	.00	895.00	50.00
260550.000	298400.00	149.62	.49	.40	.49	895.00	50.00
260600.000	298400.00	149.15	.00	.02	.00	895.00	50.00
260600.000	298400.00	149.64	.49	.02	.49	895.00	50.00
260700.000	298400.00	149.80	.00	.66	.00	1418.97	100.00
260700.000	298400.00	150.17	.36	.53	.36	1220.00	100.00
260730.000	298400.00	149.81	.00	.01	.00	1429.04	30.00
260730.000	298400.00	150.18	.36	.01	.36	1220.00	30.00
260800.000	298400.00	150.03	.00	.22	.00	1422.89	70.00
260800.000	298400.00	150.42	.39	.25	.39	1220.00	70.00
261200.000	298400.00	150.10	.00	.07	.00	1801.15	400.00
261200.000	298400.00	150.49	.39	.07	.39	1315.00	400.00
262900.000	298400.00	150.40	.00	.29	.00	1785.93	1700.00
262900.000	298400.00	150.82	.42	.33	.42	1388.26	1700.00
264500.000	298400.00	150.97	.00	.57	.00	2005.24	1600.00
264500.000	298400.00	151.41	.44	.59	.44	1470.00	1600.00
264600.000	298400.00	150.94	.00	-.03	.00	1470.00	100.00
264600.000	298400.00	151.43	.49	.02	.49	1470.00	100.00
264750.000	298400.00	151.03	.00	.09	.00	1470.00	150.00
264750.000	298400.00	151.52	.49	.09	.49	1470.00	150.00
265200.000	298400.00	151.09	.00	.06	.00	1928.79	450.00
265200.000	298400.00	151.35	.26	-.17	.26	1087.96	450.00

1000100 07:04:55

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
266750.000	292000.00	151.70	.00	.11	.00	3700.41	1550.00
266750.000	292000.00	151.72	.52	.37	.52	1184.61	1550.00
266900.000	292000.00	151.14	.00	-.06	.00	1699.55	150.00
266900.000	292000.00	151.62	.48	-.10	.48	810.00	150.00
* 267400.000	292000.00	152.19	.00	1.05	.00	1550.87	500.00
* 267400.000	292000.00	152.71	.52	1.09	.52	1409.00	500.00
* 267650.000	292000.00	151.59	.00	-.23	.00	1050.00	250.00
* 267650.000	292000.00	152.45	.55	.77	.55	1050.00	250.00
* 267850.000	292000.00	151.90	.00	.00	.00	1437.00	100.00
* 267850.000	292000.00	152.45	.55	.00	.55	1437.00	100.00
268920.000	292000.00	152.84	.00	.74	.00	1775.37	1070.00
268920.000	292000.00	153.14	.41	.70	.41	1649.26	1070.00
269250.000	292000.00	152.70	.00	.06	.00	1966.77	330.00
* 269250.000	292000.00	153.18	.48	.01	.48	1513.05	330.00
269300.000	292000.00	152.72	.00	.02	.00	1966.65	50.00
269300.000	292000.00	153.20	.49	.07	.49	1513.86	50.00
270450.000	292000.00	153.11	.00	.34	.00	2158.97	1150.00
270450.000	292000.00	153.69	.59	.49	.59	2294.40	1150.00
272610.000	292000.00	153.53	.00	.43	.00	2656.53	1550.00
272610.000	292000.00	154.05	.52	.37	.52	2552.48	1550.00

20OCT00 07:04:53

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 145800.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 260400.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 260400.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 267400.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 267400.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 267750.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 267750.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 267850.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 267850.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 269240.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

[illegible] 07:04:51

[illegible]way width summary: 100-year 11000 [illegible]
[illegible]le No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
212950.000	.95	13835.22	9139.38	13335.62	22475.00	499.60	22974.60
215700.000	.90	14884.36	8030.57	14444.43	22475.00	439.93	22914.93
[illegible]	.93	14303.92	10452.54	3950.00	17222.50	4737.20	24738.79
241100.000	.95	17106.00	5550.00	14450.00	20000.00	2655.00	22655.00
2[illegible]0000.000	.94	16065.00	10015.00	10450.00	30285.00	5615.00	35900.00
239370.000	.93	14740.00	21160.00	9125.00	30285.00	5615.00	35900.00
2[illegible]7000.000	.90	15140.00	380.00	9440.00	10000.00	5700.00	15700.00
241500.000	.91	17362.87	6211.63	6488.38	12700.00	5995.50	18695.50
241850.000	.91	17677.50	6193.04	6506.96	12700.00	6170.63	18870.63
242019.000	.94	11700.00	5540.00	5900.00	11440.00	5800.00	17240.00
242050.000	.93	11700.00	5540.00	5900.00	11440.00	5800.00	17240.00
242176.000	.95	11700.00	5540.00	5900.00	11440.00	5800.00	17240.00
242237.000	.96	11700.00	5540.00	5900.00	11440.00	5800.00	17240.00
242169.000	.96	11700.00	5540.00	5889.00	11429.00	5811.00	17240.00
242176.000	.93	11700.00	5540.00	5889.00	11429.00	5811.00	17240.00
242255.000	.96	11700.00	5540.00	5895.50	11435.50	5804.50	17240.00
242321.000	.96	11700.00	5540.00	5895.50	11435.50	5804.50	17240.00
242440.000	.94	12060.00	5540.00	6822.50	12362.50	5237.50	17600.00
243030.000	.87	11436.11	5439.30	5982.11	12412.50	5493.50	17906.00
243800.000	.96	11720.00	5580.00	6832.50	12412.50	4887.50	17300.00
246000.000	.93	11577.67	5586.51	6825.99	12412.50	4746.68	17159.18
246700.000	.91	9900.00	8900.00	6100.00	15000.00	3800.00	18800.00
247000.000	.93	10537.70	12763.00	6305.42	19312.50	3586.20	23280.70
247300.000	.95	10862.82	12436.50	6875.68	19312.50	4991.22	24305.72
248700.000	.96	11247.53	6136.04	7001.06	13136.00	4746.46	17584.46
248300.000	.88	9776.74	4219.32	5780.68	10000.00	3996.07	13996.07
250.000	.85	9631.96	7015.34	5161.95	12333.00	3871.05	17205.05
250700.000	.91	8606.78	7618.87	4773.13	8447.00	1831.17	10278.17
251400.000	.91	4374.00	7628.00	2372.00	10000.00	7000.00	17000.00
254500.000	.84	630.00	4685.00	315.00	5000.00	315.00	5315.00
254600.000	.74	630.10	4665.00	315.00	5000.00	315.00	5315.00
255100.000	.58	630.00	4685.00	315.00	5000.00	315.00	5315.00
256100.000	.67	630.00	4685.00	315.00	5000.00	315.00	5315.00
257200.000	.61	633.52	4685.00	315.00	5000.00	318.52	5318.52
258400.000	.63	601.36	6171.30	264.44	6437.00	337.27	6774.27
259600.000	.62	612.41	6166.38	270.62	6437.00	341.79	6778.79
260100.000	.59	665.33	6368.50	268.50	6437.00	336.87	6773.87
260400.000	.42	1082.19	5606.82	737.68	6344.50	344.50	6689.00
260500.000	.51	855.00	1370.00	447.50	2817.50	447.50	2865.00
260700.000	.49	845.00	1470.00	447.50	2817.50	447.50	2865.00
260800.000	.49	895.00	1570.00	447.50	2817.50	447.50	2865.00
260700.000	.36	1220.00	1510.00	355.00	1865.00	865.00	2730.00
260750.000	.38	1220.00	1510.00	355.00	1865.00	865.00	2730.00
260850.000	.49	1220.00	1510.00	355.00	1865.00	864.00	2729.00
260900.000	.49	1375.81	470.00	532.50	982.50	782.51	1765.01
262900.000	.42	1388.26	322.30	580.20	982.50	808.06	1710.56
264500.000	.44	1240.00	1660.00	755.00	2355.00	755.00	3130.00

[illegible] 07:04:53

[illegible]	.49	1470.00	1660.00	735.00	2395.00	735.00	3130.00
2[illegible]0.000	.49	1470.00	1660.00	735.00	2395.00	735.00	3130.00
265200.000	.26	1110.25	1174.75	577.75	1752.50	532.50	2285.00
266750.000	.52	1184.62	4286.39	746.61	5033.00	438.00	5471.00
266900.000	.48	810.00	4595.00	405.00	5000.00	405.00	5405.00
267400.000	.52	1409.80	821.50	704.90	1526.40	704.90	2231.30
267750.000	.55	1050.00	4475.00	525.00	5000.00	525.00	5525.00
267850.000	.55	1437.00	563.00	718.50	1281.50	718.50	2000.00
268570.000	.51	1655.00	4260.00	827.50	5087.50	827.50	5915.00
269250.000	.48	1648.00	600.00	824.00	1424.00	824.00	2248.00
269500.000	.49	1648.00	600.00	824.00	1424.00	824.00	2248.00
270450.000	.55	2330.00	3835.00	1165.00	5000.00	1165.00	6165.00
272010.000	.52	2330.00	2970.00	1165.00	4135.00	1165.00	5300.00

FLOODWAY DATA 100-year 11000 Q 0800
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
212950.000	13835.	140829.	2.1	128.1	127.2	.9
215700.000	14664.	166416.	1.6	129.7	128.5	.9
226100.000	14306	134057.	2.2	132.4	131.8	.6
234100.000	17106	150827.	2.0	134.6	133.9	.7
238900.000	16065.	200703.	1.5	136.2	135.3	.9
239370.000	14740.	166118.	1.6	136.3	135.4	.9
239800.000	15140	177308.	1.7	136.4	135.4	1.0
241500.000	12563.	147980.	2.0	136.7	135.8	.9
241850.000	12678.	154340.	1.9	136.8	135.9	.9
242049.000	11700.	111312.	2.5	137.0	135.1	.9
242050.000	11647.	74666.	4.0	137.1	136.1	1.0
242120.000	11647.	74814.	4.0	137.2	136.2	1.0
242121.000	11700.	118836.	2.5	137.2	136.2	1.0
242169.000	11700.	119202.	2.5	137.2	136.2	1.0
242170.000	11647.	74949	4.0	137.2	136.2	1.0
242240.000	11647.	75084	4.0	137.2	136.2	1.0
242241.000	11700.	119230.	2.5	137.2	136.2	1.0
242440.000	12060.	137316.	1.9	137.2	136.3	.9
243000.000	11438.	137664	2.2	137.5	136.6	.9
245800.000	11720.	155288.	1.9	138.3	137.3	1.0
246000.000	11573.	158211.	1.9	138.3	137.4	.9
246700.000	9903.	128051.	2.3	138.4	137.5	.9
247000.000	10558.	117426.	2.5	138.4	137.4	1.0
247200.000	10869	119540.	2.5	138.5	137.5	1.0
[illegible]00.000	11248.	132883.	2.2	138.7	137.7	1.0
[illegible]00.000	9777.	111559.	2.7	139.0	138.1	.9
249500.000	9634	116957.	2.7	138.9	138.0	.9
250770.000	8606	77888.	3.8	139.1	138.2	.9
253400.000	4372.	42944.	6.9	140.2	139.2	1.0
254500.000	619.	20540.	14.5	140.6	139.6	.6
254600.000	620.	20653.	14.4	140.8	140.1	.7
255100.000	622.	21148.	14.1	141.7	141.1	.6
256100.000	626.	22118.	13.5	143.2	142.6	.6
257200.000	632.	23052.	12.9	144.6	144.0	.6
258400.000	602.	21590.	13.6	145.1	144.5	.6
259600.000	612.	22613.	13.2	146.5	145.9	.6
260100.000	605.	22779.	13.1	147.0	146.4	.6
260400.000	1062.	36251.	8.2	149.2	148.8	.4
260500.000	895.	32287	9.2	149.2	148.7	.5
260550.000	895.	32643	9.1	149.6	149.1	.5
260600.000	895.	32656.	9.1	149.6	149.1	.5
260700.000	1220.	40652.	7.3	150.2	149.8	.4

FLOODWAY DATA. 100-year flood 0 gage
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
260700.000	1220.	40661.	7.3	150.2	149.8	.4
260800.000	1270.	40963.	7.3	150.4	150.0	.4
261200.000	1315.	43503.	6.9	150.5	150.1	.4
261500.000	1366.	41961.	7.1	150.8	150.4	.4
264500.000	1470.	43679.	6.8	151.4	151.0	.4
264600.000	1470.	43709.	6.8	151.4	150.9	.5
264750.000	1470.	43838.	6.8	151.5	151.0	.5
265200.000	1058.	35713.	8.4	151.8	151.1	.5
266750.000	1185.	35156.	8.3	151.7	151.2	.5
266900.000	810.	30967.	9.4	151.6	151.1	.5
267400.000	1410.	53775.	5.4	152.7	152.2	.5
267750.000	1050.	34765.	8.4	152.5	152.9	.6
267850.000	1437.	48887.	6.0	152.5	151.9	.6
268920.000	1649.	48526.	6.0	153.1	152.6	.5
269250.000	1648.	45329.	6.4	153.2	152.7	.5
269300.000	1648.	45353.	6.4	153.2	152.7	.5
270450.000	2294.	51374.	5.7	153.7	153.1	.6
272010.000	2293.	53673.	5.4	154.0	153.5	.5