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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF NOVEMBER 1976                         *
*  UPDATED MARCH 1982                               *
*                                                   *
*  RUN DATE  09/14/82. TIME  09.53.14.              *
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*  U.S. ARMY CORPS OF ENGINEERS  *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D    *
*  DAVIS, CALIFORNIA 95616       *
*  (916) 440-2105 (FTS) 448-2105 *
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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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BC5T2F

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  HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
  ERROR CORR -  01,02,03,04,05
  MODIFICATION -  50,51,52,53,54,55
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T1       BRUNSWICK CO FIS
T2     100 YEAR FLOW
T3       STURGEON CREEK

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ
       0.        5.        0.        0.  0.000000      0.00       0.0        0.   107.930     0.000
J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE
     1.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000    15.000
J3  VARIABLE CODES FOR SUMMARY PRINTOUT
    38.000    39.000    40.000    41.000    43.000    42.000     1.000     2.000    26.000    53.000

    54.000    25.000    50.000     0.000   200.000     0.000     0.000     0.000     0.000     0.000

NC      .045      .045      .035      .100      .300     0.000     0.000     0.000     0.000     0.000
ET     0.000     0.000     0.000     0.000     0.000     8.400     0.000     0.000     0.000     0.000
QT     9.000   940.000  1300.000  1930.000  2480.000  2480.000  2480.000  2900.000  3760.000  4400.000
X1  1950.000    14.000   100.000   225.000     0.000     0.000     0.000     0.000   100.000     0.000
GR    20.000 -2300.000    15.000 -2200.000    10.000 -1600.000     7.940     0.000     7.840   100.000
GR     7.540   101.000     2.940   113.000   -12.460   161.000     7.540   223.000     7.940   225.000
GR     8.140   300.000    10.000  1100.000    15.000  1230.000    20.000  1360.000     0.000     0.000

X1  2050.000     0.000     0.000     0.000   100.000   100.000   100.000     0.000     0.000     0.000

NC     0.000     0.000     0.000      .300      .500     0.000     0.000     0.000     0.000     0.000
X1  2800.000    17.000   256.000   428.000   650.000   700.000   750.000     0.000   100.000     0.000
GR    20.000 -2600.000     9.300 -1300.000     7.360     0.000     5.260   100.000     4.260   200.000
GR     3.710   256.000     3.660   261.000     2.160   273.000   -17.840   342.000     2.160   412.000
GR     3.460   424.000     3.480   428.000     3.760   473.000     5.660   479.000     5.660   500.000
GR     4.560   600.000    20.000  1900.000     0.000     0.000     0.000     0.000     0.000     0.000

X1  2900.000     0.000     0.000     0.000   100.000   100.000   100.000     0.000     0.000     0.000
X3    10.000     0.000     0.000     0.000     0.000     0.000     0.000   107.500   107.500     0.000

SB     1.250     1.560     3.000     0.000   106.000     7.000  2484.000     0.000     0.000     0.000
ET     0.000     0.000     0.000     0.000     0.000     8.410     0.000     0.000     0.000     0.000
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X1	2928.000	0.000	0.000	0.000	28.000	28.000	28.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	107.110	107.960	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	107.960	107.960	0.000
BT	13.000	-58.000	110.460	0.000	42.000	109.860	0.000	142.000	108.560	0.000
BT	242.000	108.560	0.000	256.000	108.850	0.000	256.000	111.210	107.110	342.000
BT	111.120	106.990	428.000	111.200	107.070	428.000	108.840	0.000	442.000	108.560
BT	0.000	542.000	107.960	0.000	642.000	108.360	0.000	742.000	108.260	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000
X1	3000.000	0.000	0.000	0.000	72.000	72.000	72.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.100	.300	0.000	0.000	0.000	0.000	0.000
X1	3100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.000	0.000
NC	.115	.115	.040	.300	.500	0.000	0.000	0.000	0.000	0.000
QT	9.000	640.000	900.000	1350.000	1760.000	1760.000	1760.000	2100.000	2760.000	3350.000
X1	8275.000	20.000	736.000	791.000	4750.000	4350.000	5175.000	0.000	99.070	0.000
GR	13.760	0.000	10.760	100.000	10.360	200.000	8.360	300.000	1.660	400.000
GR	1.760	500.000	1.760	600.000	2.260	700.000	3.060	736.000	-4.440	745.000
GR	-5.440	757.000	-5.740	768.000	-1.240	778.000	2.660	791.000	4.260	800.000
GR	2.860	900.000	1.660	1000.000	3.160	1100.000	7.260	1200.000	13.760	1275.000
X1	8400.000	41.000	715.000	824.000	125.000	125.000	125.000	0.000	99.930	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	107.600	107.600	0.000
GR	13.760	0.000	13.310	15.000	10.760	100.000	10.700	115.000	10.360	200.000
GR	10.060	215.000	8.360	300.000	7.360	315.000	1.660	400.000	2.080	415.000
GR	4.470	500.000	4.470	515.000	4.470	600.000	4.540	615.000	4.970	700.000
GR	5.250	713.000	5.300	715.000	5.300	717.000	3.100	735.000	1.840	739.000
GR	1.370	740.500	-3.200	755.000	-4.500	766.500	-4.700	768.000	-5.400	775.000
GR	-1.980	793.500	-1.700	795.000	3.400	810.000	4.020	815.000	4.900	822.000
GR	4.900	824.000	2.860	900.000	2.680	915.000	1.660	1000.000	1.880	1015.000
GR	3.160	1100.000	3.780	1115.000	7.260	1200.000	8.560	1215.000	13.760	1275.000
GR	13.760	1314.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	8410.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	.070	0.000
BT	31.000	0.000	113.760	0.000	15.000	113.760	0.000	115.000	111.740	0.000
BT	215.000	110.100	0.000	315.000	109.150	0.000	415.000	109.070	0.000	515.000
BT	108.980	0.000	615.000	108.980	0.000	713.000	109.070	0.000	715.000	109.070
BT	0.000	715.000	109.070	106.820	739.000	109.100	106.820	739.000	109.100	0.000
BT	740.500	109.100	0.000	740.500	109.100	106.820	766.500	109.130	106.820	766.500
BT	109.130	0.000	768.000	109.130	0.000	768.000	109.130	106.820	793.500	109.140
BT	106.820	793.500	109.140	0.000	795.000	109.140	0.000	795.000	109.140	106.820
BT	815.000	109.150	106.820	824.000	108.970	106.820	824.000	108.970	0.000	915.000
BT	108.440	0.000	1015.000	108.410	0.000	1115.000	109.270	0.000	1215.000	110.860
BT	0.000	1314.000	113.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	8448.000	0.000	0.000	0.000	38.000	38.000	38.000	0.000	.260	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000

NC	0.000	0.000	.040	0.000	0.000	0.000	0.000	0.000	0.000
X1	8458.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	.060	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	108.400	108.400	0.000
X1	8550.000	20.000	736.000	791.000	92.000	92.000	92.000	0.000	100.960	0.000
GR	13.760	0.000	10.760	100.000	10.360	200.000	8.360	300.000	1.660	400.000
GR	1.760	500.000	1.760	600.000	2.260	700.000	3.060	736.000	-4.440	745.000
GR	-5.440	757.000	-5.740	768.000	-1.240	778.000	2.660	791.000	4.260	800.000
GR	2.860	900.000	1.660	1000.000	3.160	1100.000	7.260	1200.000	13.760	1275.000
NC	0.000	0.000	0.000	.100	.300	0.000	0.000	0.000	0.000	0.000
X1	8650.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	.680	0.000
QT	9.000	640.000	900.000	1350.000	1760.000	1760.000	1760.000	2100.000	2760.000	3350.000
NC	.120	.120	.055	.300	.500	0.000	0.000	0.000	0.000	0.000
X1	14700.000	21.000	731.000	771.000	5650.000	5500.000	6050.000	0.000	100.000	0.000
GR	18.400	0.000	15.900	100.000	13.600	200.000	10.600	300.000	8.000	400.000
GR	6.700	500.000	6.400	600.000	5.500	700.000	2.400	731.000	.800	739.000
GR	.700	746.000	2.500	770.000	4.300	771.000	5.000	800.000	6.200	900.000
GR	6.800	1000.000	8.000	1100.000	9.100	1200.000	13.200	1300.000	16.600	1400.000
GR	18.400	1500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	14800.000	41.000	739.000	760.000	100.000	100.000	100.000	0.000	100.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	110.200	110.200	0.000
GR	18.400	-236.000	17.600	-136.000	16.900	-36.000	16.600	0.000	16.160	64.000
GR	15.900	100.000	14.430	164.000	13.600	200.000	11.680	264.000	10.600	300.000
GR	8.940	364.000	8.000	400.000	7.170	464.000	6.700	500.000	6.510	564.000
GR	6.400	600.000	5.820	664.000	5.500	700.000	1.760	731.000	.800	739.000
GR	-.980	746.000	-.980	749.000	-.980	750.000	1.750	760.000	2.050	764.000
GR	2.500	770.000	4.300	771.000	5.000	800.000	5.770	864.000	6.200	900.000
GR	6.580	964.000	6.800	1000.000	7.570	1064.000	8.000	1100.000	8.700	1164.000
GR	9.100	1200.000	11.700	1264.000	13.200	1300.000	14.860	1364.000	16.600	1400.000
GR	18.400	1500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	14810.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	0.000	0.000
BT	27.000	-236.000	118.400	0.000	-136.000	117.480	0.000	-36.000	116.930	0.000
BT	64.000	116.210	0.000	164.000	115.610	0.000	264.000	115.120	0.000	364.000
BT	114.700	0.000	464.000	114.540	0.000	564.000	114.370	0.000	664.000	114.400
BT	0.000	739.000	114.630	0.000	739.000	114.630	106.020	746.000	114.650	106.020
BT	749.000	114.660	106.020	749.000	114.660	0.000	750.000	114.660	0.000	750.000
BT	114.660	106.020	760.000	114.690	106.020	760.000	114.690	0.000	764.000	114.700
BT	0.000	864.000	114.860	0.000	964.000	115.100	0.000	1064.000	115.270	0.000
BT	1164.000	115.530	0.000	1264.000	115.650	0.000	1364.000	115.810	0.000	1500.000
BT	118.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	15035.000	0.000	0.000	0.000	225.000	225.000	225.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000

NC	0.000	0.000	.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	15045.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	114.370	114.370	0.000
X1	15125.000	21.000	731.000	771.000	80.000	80.000	80.000	0.000	100.000	0.000
GR	18.400	0.000	15.900	100.000	13.600	200.000	10.600	300.000	8.000	400.000
GR	6.700	500.000	6.400	600.000	5.500	700.000	2.400	731.000	.800	739.000
GR	.700	746.000	2.500	770.000	4.300	771.000	5.000	800.000	6.200	900.000
GR	6.800	1000.000	8.000	1100.000	9.100	1200.000	13.200	1300.000	16.600	1400.000
GR	18.400	1500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.100	.300	0.000	0.000	0.000	0.000	0.000
X1	15200.000	0.000	0.000	0.000	75.000	75.000	75.000	0.000	0.000	0.000
NC	.125	.125	.065	.300	.500	0.000	0.000	0.000	0.000	0.000
QT	9.000	500.000	700.000	1080.000	1420.000	1420.000	1420.000	1710.000	2270.000	2750.000
X1	15825.000	20.000	897.000	920.000	550.000	500.000	625.000	0.000	99.340	0.000
GR	20.670	0.000	19.270	100.000	16.870	200.000	15.270	300.000	13.770	400.000
GR	11.770	500.000	9.970	600.000	8.670	700.000	8.570	800.000	5.470	897.000
GR	1.670	910.000	5.470	920.000	7.670	1000.000	7.570	1100.000	6.770	1200.000
GR	7.970	1300.000	8.970	1400.000	9.370	1500.000	12.470	1600.000	20.000	2300.000
X1	15925.000	29.000	871.000	915.000	100.000	100.000	100.000	0.000	99.940	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	112.400	112.400	0.000
GR	20.500	0.000	19.000	100.000	16.870	200.000	15.270	300.000	13.770	400.000
GR	11.770	500.000	9.970	600.000	8.670	700.000	8.570	800.000	6.330	870.000
GR	6.300	871.000	5.660	884.000	4.130	886.000	3.360	887.000	2.660	893.000
GR	4.360	902.000	4.640	903.000	6.060	908.000	3.570	915.000	3.950	916.000
GR	5.470	920.000	7.670	1000.000	7.570	1100.000	6.770	1200.000	7.970	1300.000
GR	8.970	1400.000	9.370	1500.000	12.470	1600.000	19.800	2300.000	0.000	0.000
NC	0.000	0.000	.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.410	0.000	0.000	0.000	0.000
X1	15935.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	.060	0.000
BT	32.000	0.000	120.670	0.000	100.000	119.160	0.000	200.000	117.860	0.000
BT	300.000	116.360	0.000	400.000	115.340	0.000	500.000	114.430	0.000	600.000
BT	113.760	0.000	700.000	113.270	0.000	800.000	113.170	0.000	870.000	113.100
BT	0.000	871.000	113.100	0.000	871.000	113.100	112.160	886.000	113.090	112.160
BT	886.000	113.090	0.000	887.000	113.090	0.000	887.000	113.090	112.160	893.000
BT	113.090	112.160	902.000	113.120	112.160	902.000	113.120	0.000	903.000	113.120
BT	0.000	903.000	113.120	112.160	915.000	113.170	112.160	915.000	113.170	0.000
BT	916.000	113.170	0.000	1000.000	112.970	0.000	1100.000	112.650	0.000	1200.000
BT	112.840	0.000	1300.000	113.260	0.000	1400.000	114.100	0.000	1500.000	114.780
BT	0.000	1600.000	115.330	0.000	2300.000	120.000	0.000	0.000	0.000	0.000
X1	15960.000	0.000	0.000	0.000	25.000	25.000	25.000	0.000	.150	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000

NC	0.000	0.000	.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000
X1	15970.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	.060	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	112.650	112.650	0.000
X1	16035.000	20.000	897.000	920.000	65.000	65.000	65.000	0.000	100.600	0.000
GR	20.670	0.000	19.270	100.000	16.870	200.000	15.270	300.000	13.770	400.000
GR	11.770	500.000	9.970	600.000	8.670	700.000	8.570	800.000	5.470	897.000
GR	1.670	910.000	5.470	920.000	7.670	1000.000	7.570	1100.000	6.770	1200.000
GR	7.970	1300.000	8.970	1400.000	9.370	1500.000	12.470	1600.000	20.000	2300.000
NC	.130	.130	.070	.100	.300	0.000	0.000	0.000	0.000	0.000
QT	9.000	400.000	560.000	880.000	1180.000	1180.000	1180.000	1420.000	1910.000	2340.000
X1	19325.000	11.000	1340.000	1354.000	2890.000	3015.000	3290.000	0.000	100.000	0.000
GR	30.690	1000.000	19.310	1100.000	12.360	1150.000	11.960	1200.000	11.360	1300.000
GR	10.360	1340.000	8.060	1350.000	7.560	1354.000	11.900	1460.000	12.200	1470.000
GR	21.400	1490.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	.135	.135	.075	.300	.500	0.000	0.000	0.000	0.000	0.000
QT	9.000	200.000	290.000	470.000	640.000	640.000	640.000	800.000	1100.000	1400.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	262.000	419.000	0.000	0.000
X1	23625.000	12.000	299.000	311.000	4050.000	3975.000	4300.000	0.000	100.000	0.000
GR	34.330	0.000	31.730	100.000	30.430	200.000	21.320	299.000	21.230	300.000
GR	21.130	302.000	19.330	305.000	24.530	309.000	24.520	311.000	23.930	400.000
GR	28.430	500.000	34.330	570.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	243.000	456.000	0.000	0.000
X1	23725.000	13.000	299.000	311.000	100.000	100.000	100.000	0.000	100.000	0.000
GR	34.330	0.000	31.730	100.000	30.430	200.000	21.320	299.000	21.230	300.000
GR	21.130	302.000	19.330	305.000	23.560	309.000	24.520	311.000	23.930	400.000
GR	28.430	500.000	31.280	570.000	35.000	1070.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	126.990	126.990	0.000
SB	1.250	1.560	3.000	0.000	12.030	2.970	31.810	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.110	299.000	349.000	0.000	0.000
X1	23766.000	0.000	0.000	0.000	41.000	41.000	41.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	123.560	128.800	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	129.250	129.250	0.000
BT	17.000	0.000	134.330	0.000	100.000	132.520	0.000	200.000	130.990	0.000
BT	299.000	129.430	0.000	299.000	129.450	123.560	300.000	129.430	123.560	311.000
BT	129.310	123.560	311.000	129.310	0.000	316.000	129.250	0.000	400.000	128.800
BT	0.000	500.000	130.050	0.000	600.000	131.820	0.000	700.000	132.930	0.000
BT	800.000	133.430	0.000	900.000	133.730	0.000	1000.000	133.880	0.000	1100.000
BT	133.630	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.110	299.000	349.000	0.000	0.000
X1	23825.000	0.000	0.000	0.000	59.000	59.000	59.000	0.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1950.000
  1950.00    20.39    107.93      0.00    107.93    107.99       .06      0.00      0.00    107.84
    2480.       0.     2480.        0.        4.     1286.        0.        0.        0.    107.94
     0.00      .04      1.93      0.00      .045      .035      .045     0.000     87.54     10.00
  .000099       0.        0.        0.         0         0         0      0.00    214.95    224.95


FLOW DISTRIBUTION FOR SECNO=    1950.00          CWSEL=     107.93

STA=       10.      100.      225.
  PER Q=       .0     100.0
   AREA=      4.1    1286.2
    VEL=       .0       1.9

*SECNO 2050.000
  2050.00    20.40    107.94      0.00      0.00    108.00       .06       .01       .00    107.84
    2480.       0.     2480.        0.        5.     1287.        0.        3.        1.    107.94
      .01      .04      1.93      0.00      .045      .035      .045     0.000     87.54       .15
  .000098     100.      100.      100.         0         0         0      0.00    224.85    225.00


FLOW DISTRIBUTION FOR SECNO=    2050.00          CWSEL=     107.94

STA=        0.      100.      225.
  PER Q=       .0     100.0
   AREA=      5.0    1287.4
    VEL=       .0       1.9

CCHV=     .300 CEHV=     .500
*SECNO 2800.000
  2800.00    25.86    108.02      0.00      0.00    108.03       .01       .02       .01    103.71
    2480.     192.     2051.      237.      866.     2368.     1061.       49.       13.    103.48
      .29      .22       .87       .22      .045      .035      .045     0.000     82.16   -439.58
  .000013     650.      750.      700.         1         0         0      0.00   1330.57    890.98


FLOW DISTRIBUTION FOR SECNO=    2800.00          CWSEL=     108.02

STA=    -440.        0.      100.      200.      256.      428.      473.      479.      500.      600.      891.
  PER Q=       .3       1.2       3.5       2.8      82.7       2.6        .2        .4       2.9       3.5
   AREA=    144.2     170.6     325.6     225.7    2367.6     197.8      19.8      49.5     290.6     502.8
    VEL=       .1        .2        .3        .3        .9        .3        .3        .2        .2        .2
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

*SECNO 2900.000
  2900.00    25.86    108.02      0.00      0.00    108.03       .01       .00       .00    103.71
    2480.     193.     2049.      238.      875.     2370.     1066.       59.       16.    103.48
      .32      .22       .86       .22      .045      .035      .045     0.000     82.16   -448.12
  .000013     100.      100.      100.         0         0         0      0.00   1340.18    892.06


FLOW DISTRIBUTION FOR SECNO=   2900.00          CWSEL=    108.02

STA=    -448.       0.     100.     200.     256.     428.     473.     479.     500.     600.     892.
  PER Q=      .3      1.2      3.5      2.8     82.6      2.6       .2       .4      2.9      3.5
   AREA=   149.8    171.9    326.9    226.4   2369.8    198.4     19.9     49.7    291.9    506.5
    VEL=      .1       .2       .3       .3       .9       .3       .3       .2       .2       .2

SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.56      3.00      0.00      106.00    7.00      2484.00   0.00      82.16     82.16

*SECNO 2928.000
PRESSURE AND WEIR FLOW


 EGPRS     EGLWC     H3        QWEIR     QPR       BAREA     TRAPEZOID     ELLC      ELTRD
                                                             AREA
  108.05    108.04      .00        1.     2484.     2484.     2470.     107.11    107.96


  2928.00    25.88    108.04      0.00      0.00    108.05       .01       .01      0.00    103.71
    2480.     195.     2045.      240.      889.     2373.     1076.       62.       17.    103.48
      .34      .22       .86       .22      .045      .035      .045     0.000     82.16   -461.54
  .000013      28.       28.       28.         0         0         6      0.00   1355.29    893.74


FLOW DISTRIBUTION FOR SECNO=   2928.00          CWSEL=    108.04

STA=    -462.       0.     100.     200.     256.     428.     473.     479.     500.     600.     894.
  PER Q=      .4      1.2      3.5      2.8     82.5      2.6       .2       .4      2.9      3.6
   AREA=   158.9    173.9    328.9    227.6   2373.2    199.3     20.0     50.2    293.9    512.4
    VEL=      .1       .2       .3       .3       .9       .3       .3       .2       .2       .2

*SECNO 3000.000
  3000.00    25.88    108.04      0.00      0.00    108.05       .01       .00       .00    103.71
    2480.     194.     2047.      239.      883.     2372.     1072.       69.       19.    103.48
      .36      .22       .86       .22      .045      .035      .045     0.000     82.16   -455.71
  .000013      72.       72.       72.         0         0         0      0.00   1348.72    893.01
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

FLOW DISTRIBUTION FOR SECNO=   3000.00          CWSEL=    108.04

STA=    -456.       0.      100.      200.      256.      428.      473.      479.      500.      600.      893.
  PER Q=      .4       1.2       3.5       2.8      82.5       2.6       .2       .4       2.9       3.5
   AREA=   155.0     173.0     328.0     227.1    2371.7     198.9      20.0      50.0     293.0     509.8
    VEL=      .1       .2       .3       .3       .9       .3       .3       .2       .2       .2

CCHV=    .100 CEHV=    .300
*SECNO 3100.000
  3100.00     25.88    108.04      0.00      0.00    108.05       .01       .00       .00    103.71
    2480.      194.     2046.      239.      884.     2372.     1072.       79.       22.    103.48
      .40       .22       .86       .22      .045      .035      .045     0.000     82.16   -456.57
  .000013      100.      100.      100.         0         0         0      0.00   1349.69    893.12

FLOW DISTRIBUTION FOR SECNO=   3100.00          CWSEL=    108.04

STA=    -457.       0.      100.      200.      256.      428.      473.      479.      500.      600.      893.
  PER Q=      .4       1.2       3.5       2.8      82.5       2.6       .2       .4       2.9       3.6
   AREA=   155.5     173.1     328.1     227.2    2371.9     199.0      20.0      50.0     293.1     510.2
    VEL=      .1       .2       .3       .3       .9       .3       .3       .2       .2       .2

CCHV=    .300 CEHV=    .500
*SECNO 8275.000
  8275.00     14.80    108.13      0.00      0.00    108.14       .01       .08       .00    102.13
    1760.      653.      607.      501.     2818.      651.     2349.      631.      145.    101.73
     3.32       .23       .93       .21      .115      .040      .115     0.000     93.33    264.99
  .000026     4750.     5175.     4350.         2         0         0      0.00    955.78   1220.77

FLOW DISTRIBUTION FOR SECNO=   8275.00          CWSEL=    108.13

STA=     265.      400.      500.      600.      700.      736.      791.      900.     1000.     1100.     1200.     1221.
  PER Q=      3.9      10.4      10.2       9.7       3.0      34.5       7.0       9.1       8.8       3.5        .1
   AREA=   417.3     735.0     730.0     705.0     230.4     651.0     600.4     680.0     665.0     385.0      18.7
    VEL=      .2       .2       .2       .2       .2       .9       .2       .2       .2       .2        .1

*SECNO 8400.000
  8400.00     13.60    108.13      0.00      0.00    108.14       .01       .00       .00    105.23
    1760.      365.      919.      476.     1601.      894.     1806.      646.      147.    104.83
     3.37       .23      1.03       .26      .115      .040      .115     0.000     94.53    302.36
  .000048      125.      125.      125.         0         0         0      0.00    908.51   1210.88
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

FLOW DISTRIBUTION FOR SECNO=   8400.00          CWSEL=    108.13

STA=      302.      400.      500.      600.      700.      715.      824.      900.     1000.     1100.     1200.     1211.
  PER Q=      3.8       7.8       4.6       4.1        .5      52.2       4.4       9.9       9.5       3.2        .0
   AREA=    319.2     513.8     373.3     348.5      46.1     894.1     328.5     594.3     579.5     299.0       5.1
    VEL=       .2        .3        .2        .2        .2       1.0        .2        .3        .3        .2        .1

*SECNO 8410.000

3370 NORMAL BRIDGE,NRD= 31 MIN ELTRD=  108.41 MAX ELLC=  106.82

  8410.00     13.49    108.09      0.00      0.00    108.19       .10       .00       .04    105.30
    1760.        0.     1760.        0.        0.      705.        0.      647.      148.    104.90
     3.38      0.00      2.49      0.00      .115      .036      .115     0.000     94.60    304.05
  .000992       10.       10.       10.         2         0         0 -3493.76    905.53   1209.58

FLOW DISTRIBUTION FOR SECNO=   8410.00          CWSEL=    108.09

STA=      304.      824.
  PER Q=    100.0
   AREA=    705.4
    VEL=      2.5

*SECNO 8448.000

3370 NORMAL BRIDGE,NRD= 31 MIN ELTRD=  108.41 MAX ELLC=  107.08

  8448.00     13.27    108.13      0.00      0.00    108.22       .10       .04       .00    105.56
    1760.        0.     1760.        0.        0.      705.        0.      647.      148.    105.16
     3.38      0.00      2.49      0.00      .115      .036      .115     0.000     94.86    307.52
  .000992       38.       38.       38.         1         0         0 -3285.05    899.39   1206.91

FLOW DISTRIBUTION FOR SECNO=   8448.00          CWSEL=    108.13

STA=      308.      824.
  PER Q=    100.0
   AREA=    705.4
    VEL=      2.5

*SECNO 8458.000
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      108.40 ELREA=      108.40

  8458.00     13.25    108.17      0.00      0.00    108.24       .07       .00       .01    105.62
    1760.        0.     1760.        0.        0.      856.        0.      647.      148.    105.22
      3.38      0.00      2.06      0.00      .115      .040      .115     0.000     94.92    715.00
  .000202       10.       10.       10.         2         0         0      0.00    109.00    824.00

FLOW DISTRIBUTION FOR SECNO=   8458.00          CWSEL=    108.17

STA=      715.      824.
  PER Q=    100.0
   AREA=    855.9
    VEL=      2.1

*SECNO 8550.000
  8550.00     13.03    108.25      0.00      0.00    108.26       .01       .01       .02    104.02
    1760.      613.      719.      428.     2043.      554.     1607.      653.      150.    103.62
      3.42      .30      1.30       .27      .115      .040      .115     0.000     95.22    315.94
  .000062       92.       92.       92.         2         0         0      0.00    884.42   1200.37


FLOW DISTRIBUTION FOR SECNO=   8550.00          CWSEL=    108.25

STA=      316.      400.      500.      600.      700.      736.      791.      800.      900.     1000.     1100.     1200.
  PER Q=      2.7      10.2      10.0       9.3       2.7      40.8        .5       5.2       8.5       8.1       2.0
   AREA=    236.7     558.2     553.2     528.2     166.7     553.7      34.5     373.2     503.2     488.2     208.2
    VEL=       .2        .3        .3        .3        .3       1.3        .2        .2        .3        .3        .2

CCHV=     .100 CEHV=     .300
*SECNO 8650.000
  8650.00     12.36    108.26      0.00      0.00    108.27       .02       .01       .00    104.70
    1760.      591.      777.      393.     1766.      517.     1339.      662.      152.    104.30
      3.45      .33      1.50       .29      .115      .040      .115     0.000     95.90    325.90
  .000091      100.      100.      100.         0         0         0      0.00    858.62   1184.51


FLOW DISTRIBUTION FOR SECNO=   8650.00          CWSEL=    108.26

STA=      326.      400.      500.      600.      700.      736.      791.      800.      900.     1000.     1100.     1185.
  PER Q=      2.4      10.0       9.8       9.0       2.5      44.1        .4       4.5       8.2       7.7       1.5
   AREA=    184.0     491.5     486.5     461.5     142.7     517.0      28.5     306.5     436.5     421.5     146.4
    VEL=       .2        .4        .4        .3        .3       1.5        .3        .3        .3        .3        .2
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST

CCHV=     .300 CEHV=     .500
*SECNO 14700.000
 14700.00      8.54    109.24      0.00      0.00    109.28       .03      1.00       .01    102.40
    1760.       537.      676.      548.      982.      310.     1026.     1047.      261.    104.30
     4.82       .55      2.18       .53      .120      .055      .120     0.000    100.70    352.16
  .000443     5650.     6050.     5500.         2         0         0      0.00    851.35   1203.51

FLOW DISTRIBUTION FOR SECNO=  14700.00          CWSEL=     109.24

STA=      352.      400.      500.      600.      700.      731.      771.      800.      900.     1000.     1100.     1200.     1204.
  PER Q=       .3       4.3       7.7      10.8       7.4      38.4       5.5      12.8       8.0       4.1        .8        .0
   AREA=     29.8     189.4     269.4     329.4     164.1     309.9     133.2     364.4     274.4     184.4      69.4        .3
    VEL=       .2        .4        .5        .6        .8       2.2        .7        .6        .5        .4        .2        .0

*SECNO 14800.000

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=       110.20 ELREA=       110.20

 14800.00      9.63    108.65      0.00      0.00    110.10      1.44       .11       .71    100.80
    1760.        0.     1760.        0.        0.      183.        0.     1049.      262.    101.75
     4.83      0.00      9.64      0.00      .120      .055      .120     0.000     99.02    739.00
  .007396      100.      100.      100.         2         0         0      0.00     21.00    760.00

FLOW DISTRIBUTION FOR SECNO=  14800.00          CWSEL=     108.65

STA=      739.      760.
  PER Q=    100.0
   AREA=    182.5
    VEL=      9.6

*SECNO 14810.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF    106.020 EGLC=    109.354 EGC=    116.426 WSEL=    115.884

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF    106.020 EGLC=    109.354 EGC=    109.357 WSEL=    105.992

3301 HV CHANGED MORE THAN HVINS
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3370 NORMAL BRIDGE,NRD= 27 MIN ELTRD=  114.37 MAX ELLC=  106.02

 14810.00      8.77    107.79    106.02      0.00    111.12      3.33       .08       .94    100.80
    1760.        0.     1760.        0.        0.      120.        0.     1050.      263.    101.75
      4.83      0.00     14.65      0.00      .120      .014      .120     0.000     99.02    416.54
  .008244       10.       10.       10.         4        20         0 -1116.87    665.51   1082.04


FLOW DISTRIBUTION FOR SECNO=  14810.00          CWSEL=    107.79

STA=      417.      760.
  PER Q=     100.0
   AREA=     120.1
    VEL=      14.7

*SECNO 15035.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF   106.020 EGLC=   109.354 EGC=   116.426 WSEL=   115.884

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF   106.020 EGLC=   109.354 EGC=   109.357 WSEL=   105.992

3370 NORMAL BRIDGE,NRD= 27 MIN ELTRD=  114.37 MAX ELLC=  106.02

 15035.00     10.62    109.64    106.02      0.00    112.97      3.33      1.85      0.00    100.80
    1760.        0.     1760.        0.        0.      120.        0.     1050.      266.    101.75
      4.83      0.00     14.65      0.00      .120      .014      .120     0.000     99.02    337.00
  .008244      225.      225.      225.         4        20         0 -2575.99    876.30   1213.30


FLOW DISTRIBUTION FOR SECNO=  15035.00          CWSEL=    109.64

STA=      337.      760.
  PER Q=     100.0
   AREA=     120.1
    VEL=      14.7

*SECNO 15045.000

3301 HV CHANGED MORE THAN HVINS
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      114.37 ELREA=      114.37

 15045.00    14.18    113.20      0.00      0.00    113.82       .62       .03       .81    100.80
    1760.       0.     1760.       0.        0.      278.        0.     1050.      267.    101.75
      4.83     0.00      6.34     0.00      .120      .055      .120     0.000     99.02    739.00
  .001826      10.       10.       10.         3         0         0      0.00     21.00    760.00

FLOW DISTRIBUTION FOR SECNO=  15045.00          CWSEL=    113.20

STA=      739.      760.
  PER Q=    100.0
   AREA=    277.7
    VEL=      6.3

*SECNO 15125.000

3301 HV CHANGED MORE THAN HVINS

 15125.00    13.31    114.01      0.00      0.00    114.01       .00       .01       .19    102.40
    1760.     688.      345.     727.      3196.     501.     3367.     1057.      268.    104.30
      4.90     .22       .69      .22      .120      .055      .120     0.000    100.70    182.12
  .000023      80.       80.       80.         2         0         0      0.00   1141.73   1323.86

FLOW DISTRIBUTION FOR SECNO=  15125.00          CWSEL=    114.01

STA=      182.      400.      500.      600.      700.      731.      771.      800.      900.     1000.     1100.     1200.     1324.
  PER Q=      5.5       8.0       9.7      11.0       4.9      19.6       4.1      11.8       9.8       7.9       5.8       2.0
   AREA=    665.9     666.1     746.1     806.1     311.9     500.6     271.5     841.1     751.1     661.1     546.1     295.8
    VEL=       .1        .2        .2        .2        .3        .7        .3        .2        .2        .2        .2        .1

CCHV=     .100 CEHV=     .300
*SECNO 15200.000
 15200.00    13.31    114.01      0.00      0.00    114.01       .00       .00       .00    102.40
    1760.     688.      344.     727.      3197.     501.     3368.     1069.      270.    104.30
      4.97     .22       .69      .22      .120      .055      .120     0.000    100.70    182.05
  .000023      75.       75.       75.         2         0         0      0.00   1141.86   1323.91

FLOW DISTRIBUTION FOR SECNO=  15200.00          CWSEL=    114.01

STA=      182.      400.      500.      600.      700.      731.      771.      800.      900.     1000.     1100.     1200.     1324.
  PER Q=      5.5       8.0       9.7      11.0       4.9      19.6       4.1      11.8       9.8       7.9       5.8       2.0
   AREA=    666.3     666.3     746.3     806.3     312.0     500.7     271.5     841.3     751.3     661.3     546.3     296.0
    VEL=       .1        .2        .2        .2        .3        .7        .3        .2        .2        .2        .2        .1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

CCHV=     .300 CEHV=     .500
*SECNO 15825.000
 15825.00     13.02    114.03      0.00      0.00    114.03       .00       .01       .00    104.81
    1420.      426.      129.      865.     2488.      256.     4617.     1156.      285.    104.81
     5.67       .17       .51       .19      .125      .065      .125     0.000    101.01    338.94
  .000021      550.      625.      500.         0         0         0      0.00   1467.05   1805.99

FLOW DISTRIBUTION FOR SECNO=  15825.00          CWSEL=    114.03

STA=      339.      600.      700.      800.      897.      920.     1000.     1100.     1200.     1300.     1400.     1500.     1600.
  PER Q=      4.8       6.3       7.8      11.1       9.1      10.1      10.0      11.1      10.6       8.1       6.6       3.5
   AREA=    601.1     536.6     606.6     743.6     255.7     649.3     706.6     751.6     731.6     621.6     551.6     376.6
    VEL=       .1        .2        .2        .2        .5        .2        .2        .2        .2        .2        .2        .1
STA=     1600.     1806.
  PER Q=       .9
   AREA=    228.2
    VEL=       .1

*SECNO 15925.000
 15925.00     11.43    114.03      0.00      0.00    114.03       .00       .00       .00    106.24
    1420.      349.      217.      854.     1953.      414.     4156.     1172.      289.    103.51
     5.79       .18       .52       .21      .125      .065      .125     0.000    102.60    378.76
  .000028      100.      100.      100.         0         0         0      0.00   1375.81   1754.57

FLOW DISTRIBUTION FOR SECNO=  15925.00          CWSEL=    114.03

STA=      379.      600.      700.      800.      870.      871.      915.     1000.     1100.     1200.     1300.     1400.     1500.
  PER Q=      3.8       6.0       7.5       7.2        .1      15.3      11.1       9.9      11.1      10.5       7.8       6.3
   AREA=    457.1     476.9     546.9     464.7       7.8     414.0     649.3     646.9     691.9     671.9     561.9     491.9
    VEL=       .1        .2        .2        .2        .2        .5        .2        .2        .2        .2        .2        .2
STA=     1500.     1600.     1755.
  PER Q=      3.0        .5
   AREA=    316.9     125.1
    VEL=       .1        .1

*SECNO 15935.000

3370 NORMAL BRIDGE,NRD= 32 MIN ELTRD=  112.65 MAX ELLC=  112.16

 15935.00     11.33    113.99      0.00      0.00    114.07       .07       .00       .04    106.30
    1420.      123.      921.      375.      190.      352.      448.     1173.      289.    103.57
     5.79       .65      2.62       .84      .125      .062      .125     0.000    102.66    385.07
  .004733       10.       10.       10.         2         0         0 -5402.87   1360.46   1745.53
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

FLOW DISTRIBUTION FOR SECNO=  15935.00          CWSEL=    113.99

STA=      385.      800.      870.      871.      915.     1000.     1100.     1200.     1300.     1746.
  PER Q=      5.5       3.1        .0      64.9       4.3       7.6       8.3       5.2        .9
   AREA=    129.4      60.1        .9     352.0      78.4     118.4     124.9      94.4      32.1
    VEL=       .6        .7        .8       2.6        .8        .9        .9        .8        .4

*SECNO 15960.000

3370 NORMAL BRIDGE,NRD= 32 MIN ELTRD=  112.65 MAX ELLC=  112.31

 15960.00     11.31    114.12      0.00      0.00    114.18       .06       .11       .00    106.45
    1420.      148.      858.      413.      230.      358.      509.     1174.      290.    103.72
     5.79       .64      2.40       .81      .125      .062      .125     0.000    102.81    386.64
  .003900       25.       25.       25.         2         0         0 -5264.77   1356.65   1743.29

FLOW DISTRIBUTION FOR SECNO=  15960.00          CWSEL=    114.12

STA=      387.      800.      870.      871.      915.     1000.     1100.     1200.     1300.     1743.
  PER Q=      6.8       3.6        .1      60.5       4.8       8.2       8.9       5.9       1.3
   AREA=    160.3      69.0       1.0     357.5      89.2     131.0     137.5     107.0      44.1
    VEL=       .6        .7        .8       2.4        .8        .9        .9        .8        .4

*SECNO 15970.000
 15970.00     11.32    114.19      0.00      0.00    114.20       .00       .00       .02    106.51
    1420.      347.      219.      854.     1903.      409.     4069.     1175.      290.    103.78
     5.80       .18       .54       .21      .125      .065      .125     0.000    102.87    385.69
  .000029       10.       10.       10.         2         0         0      0.00   1358.96   1744.65

FLOW DISTRIBUTION FOR SECNO=  15970.00          CWSEL=    114.19

STA=      386.      600.      700.      800.      870.      871.      915.     1000.     1100.     1200.     1300.     1400.     1500.
  PER Q=      3.6       5.9       7.5       7.3        .1      15.4      11.2       9.9      11.1      10.6       7.8       6.2
   AREA=    434.5     466.5     536.5     457.4       7.7     409.4     640.5     636.5     681.5     661.5     551.5     481.5
    VEL=       .1        .2        .2        .2        .3        .5        .2        .2        .2        .2        .2        .2
STA=     1500.     1745.
  PER Q=      3.3
   AREA=    416.0
    VEL=       .1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

*SECNO 16035.000
 16035.00     11.93    114.20      0.00      0.00    114.20       .00       .00       .00    106.07
    1420.      404.      148.      867.     1919.      231.     3707.     1184.      292.    106.07
     5.87       .21       .64       .23      .125      .065      .125     0.000    102.27    408.66
  .000039       65.       65.       65.         2         0         0      0.00   1296.09   1704.75


FLOW DISTRIBUTION FOR SECNO=  16035.00          CWSEL=     114.20

STA=      409.      600.      700.      800.      897.      920.     1000.     1100.     1200.     1300.     1400.     1500.     1705.
  PER Q=      3.2       5.9       7.6      11.8      10.5      10.8      10.3      11.7      11.1       8.0       6.3       2.9
   AREA=    356.1     427.7     497.7     638.0     230.6     562.1     597.7     642.7     622.7     512.7     442.7     326.7
    VEL=       .1        .2        .2        .3        .6        .3        .2        .3        .3        .2        .2        .1

CCHV=     .100 CEHV=     .300
*SECNO 19325.000
 19325.00      6.92    114.48      0.00      0.00    114.50       .02       .30       .01    110.36
    1180.      434.      178.      568.      559.       79.      533.     1424.      348.    107.56
     6.60       .78      2.25      1.06      .130      .070      .130     0.000    107.56   1134.76
  .001140     2890.     3290.     3015.         2         0         0      0.00    340.20   1474.95


FLOW DISTRIBUTION FOR SECNO=  19325.00          CWSEL=     114.48

STA=     1135.     1150.     1200.     1300.     1340.     1354.     1460.     1470.     1475.
  PER Q=       .5       6.6      18.4      11.2      15.1      46.5       1.4        .2
   AREA=     16.1     115.9     281.9     144.8      79.4     503.4      24.3       5.6
    VEL=       .4        .7        .8        .9       2.2       1.1        .7        .4

CCHV=     .300 CEHV=     .500
*SECNO 23625.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 23625.00      5.44    124.77    124.77      0.00    125.38       .61      9.59       .29    121.32
     640.      241.      303.       95.       65.       36.       56.     1486.      371.    124.52
     6.81      3.73      8.39      1.70      .135      .075      .135     0.000    119.33    261.51
 .055875     4050.     4300.     3975.        20        13         0      0.00    157.14    418.65
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

FLOW DISTRIBUTION FOR SECNO=  23625.00          CWSEL=    124.77

STA=      262.      299.      311.      400.      419.
  PER Q=     37.7      47.4      13.1       1.8
   AREA=     64.7      36.1      48.5       7.8
    VEL=      3.7       8.4       1.7       1.5

*SECNO 23725.000

3301 HV CHANGED MORE THAN HVINS

 23725.00      7.10    126.43      0.00      0.00    126.49       .06       .95       .16    121.32
     640.      179.      182.      279.      142.       59.      266.     1487.      371.    124.52
     6.82      1.26      3.09      1.05      .135      .075      .135     0.000    119.33    243.45
  .003760      100.      100.      100.         5         0         0      0.00    212.13    455.59

FLOW DISTRIBUTION FOR SECNO=  23725.00          CWSEL=    126.43

STA=      243.      299.      311.      400.      456.
  PER Q=     27.9      28.5      35.1       8.5
   AREA=    142.0      59.0     196.4      69.5
    VEL=      1.3       3.1       1.1        .8

SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
5227 DOWNSTREAM ELEV IS     122.35 ,NOT    126.43 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00      0.00     12.03      2.97     31.81      0.00    119.33    119.33

*SECNO 23766.000

3235 SLOPE TOO STEEP,EXCEEDS        .10

3370 NORMAL BRIDGE,NRD= 17 MIN ELTRD=  128.80 MAX ELLC=  123.56

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 23766.00     10.49    129.82    129.82      0.00    130.28       .46       .47       .20    121.32
     640.        8.      236.      397.        5.       31.      109.     1487.      371.    124.52
     6.82      1.60      7.66      3.63      .135      .075      .135     0.000    119.33    206.65
  .187782       41.       41.       41.        20         6         0 -1232.32    327.44    534.09
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

FLOW DISTRIBUTION FOR SECNO=  23766.00          CWSEL=    129.82

STA=      207.      299.      311.      400.      500.
  PER Q=      1.2      36.9      42.3      19.7
   AREA=      4.8      30.8      67.9      41.5
    VEL=      1.6       7.7       4.0       3.0

*SECNO 23825.000
 23825.00    11.11    130.44      0.00      0.00    130.45       .00       .03       .14    121.32
     640.     159.       93.      388.      452.      107.     1030.     1488.      372.    124.52
     6.86      .35       .87       .38      .135      .075      .135     0.000    119.33    198.85
  .000134      59.       59.       59.         3         0         0      0.00    350.65    549.49


FLOW DISTRIBUTION FOR SECNO=  23825.00          CWSEL=    130.44

STA=      199.      299.      311.      400.      500.      549.
  PER Q=     24.8      14.6      37.3      22.3       1.0
   AREA=    452.4     107.2     553.6     426.5      49.9
    VEL=       .4        .9        .4        .3        .1
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*********************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
 ERROR CORR -  01,02,03,04,05
 MODIFICATION -  50,51,52,53,54,55
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T1    BRUNSWICK CO FIS
T2    FLOODWAY
T3      STURGEON CREEK

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ
     -10.       6.        0.        0.  0.000000     0.00      0.0       0.   108.930    0.000
J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE
     15.000    0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1950.000
 2800 NAT Q1=    2498.67  WSEL=     107.93  ENC Q1=    2829.85  WSEL=     108.73  RATIO=  -.1325
 NAT Q1=    2922.  RATIOS LOB,CH,ROB=    .0232    .9685    .0083  WSEL=     108.73

3470 ENCROACHMENT STATIONS=      100.0      225.0  TYPE=      4  TARGET=        .032
  1950.00    21.39    108.93      0.00    107.93    108.98       .05      0.00      0.00    107.84
    2480.       0.     2480.        0.        0.     1411.        0.        0.        0.    107.94
     0.00     0.00      1.76      0.00      .045      .035      .045     0.000     87.54    100.00
  .000074       0.        0.        0.         0         0         0      0.00    125.00    225.00


*SECNO 2050.000
 2800 NAT Q1=    2502.07  WSEL=     107.94  ENC Q1=    2834.09  WSEL=     108.74  RATIO=  -.1327
 NAT Q1=    2929.  RATIOS LOB,CH,ROB=    .0238    .9676    .0086  WSEL=     108.74

3470 ENCROACHMENT STATIONS=      100.0      225.0  TYPE=      4  TARGET=        .032
  2050.00    21.40    108.94      0.00    107.94    108.99       .05       .01       .00    107.84
    2480.       0.     2480.        0.        0.     1412.        0.        3.        0.    107.94
      .02     0.00      1.76      0.00      .045      .035      .045     0.000     87.54    100.00
  .000074     100.      100.      100.         0         0         0      0.00    125.00    225.00


CCHV=     .300 CEHV=     .500
*SECNO 2800.000
 2800 NAT Q1=    6828.48  WSEL=     108.02  ENC Q1=    6828.48  WSEL=     108.82  RATIO=   .0000
 NAT Q1=    8166.  RATIOS LOB,CH,ROB=    .1155    .7605    .1240  WSEL=     108.82

3470 ENCROACHMENT STATIONS=      195.1      519.7  TYPE=      4  TARGET=        .164
  2800.00    26.84    109.00      0.00    108.02    109.02       .01       .02       .01    103.71
    2480.     101.     2249.      130.      304.     2537.      406.       43.        4.    103.48
      .26      .33       .89       .32      .045      .035      .045     0.000     82.16    195.08
  .000013     650.      750.      700.         2         0         0      0.00    324.61    519.69


*SECNO 2900.000
 2800 NAT Q1=    6846.91  WSEL=     108.02  ENC Q1=    6846.91  WSEL=     108.82  RATIO=   .0000
 NAT Q1=    8168.  RATIOS LOB,CH,ROB=    .1156    .7604    .1240  WSEL=     108.82

3470 ENCROACHMENT STATIONS=      192.8      523.2  TYPE=      4  TARGET=        .162
  2900.00    26.85    109.01      0.00    108.02    109.02       .01       .00       .00    103.71
    2480.     104.     2243.      133.      315.     2538.      419.       50.        5.    103.48
      .30      .33       .88       .32      .045      .035      .045     0.000     82.16    192.77
  .000013     100.      100.      100.         0         0         0      0.00    330.42    523.18
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00      0.00    106.00      7.00   2484.00      0.00     82.16     82.16

*SECNO 2928.000
     3700.   BRIDGE STENCL=     192.77    STENCR=     523.19
 2800 NAT Q1=    6876.05  WSEL=     108.04  ENC Q1=    6876.05  WSEL=     108.84  RATIO=    .0000
 NAT Q1=    8196.  RATIOS LOB,CH,ROB=    .1164    .7591    .1245  WSEL=     108.84
PRESSURE AND WEIR FLOW


 EGPRS     EGLWC     H3        QWEIR     QPR       BAREA   TRAPEZOID     ELLC      ELTRD
                                                             AREA
   109.03    109.02      .00       62.     2422.     2484.     2470.     107.11    107.96



3470 ENCROACHMENT STATIONS=      192.8     523.2  TYPE=      4  TARGET=        .161
  2928.00     26.86    109.02      0.00    108.04    109.03       .01       .01      0.00    103.71
    2480.      105.     2242.      133.      316.     2540.      420.       52.        5.    103.48
      .31       .33       .88       .32      .045      .035      .045     0.000     82.16    192.77
  .000012       28.       28.       28.         2         0         6      0.00    330.42    523.18


*SECNO 3000.000
 2800 NAT Q1=    6863.37  WSEL=     108.04  ENC Q1=    6863.37  WSEL=     108.84  RATIO=    .0000
 NAT Q1=    8198.  RATIOS LOB,CH,ROB=    .1165    .7590    .1245  WSEL=     108.84

3470 ENCROACHMENT STATIONS=      192.1     522.9  TYPE=      4  TARGET=        .163
  3000.00     26.86    109.02      0.00    108.04    109.03       .01       .00       .00    103.71
    2480.      106.     2242.      133.      319.     2540.      419.       58.        6.    103.48
      .33       .33       .88       .32      .045      .035      .045     0.000     82.16    192.07
  .000012       72.       72.       72.         0         0         0      0.00    330.80    522.88


CCHV=     .100 CEHV=     .300
*SECNO 3100.000
 2800 NAT Q1=    6865.24  WSEL=     108.04  ENC Q1=    6865.24  WSEL=     108.84  RATIO=    .0000
 NAT Q1=    8200.  RATIOS LOB,CH,ROB=    .1166    .7589    .1245  WSEL=     108.84

3470 ENCROACHMENT STATIONS=      192.0     522.9  TYPE=      4  TARGET=        .163
  3100.00     26.86    109.02      0.00    108.04    109.03       .01       .00       .00    103.71
    2480.      106.     2242.      133.      320.     2540.      419.       65.        6.    103.48
      .36       .33       .88       .32      .045      .035      .045     0.000     82.16    191.95
  .000012      100.      100.      100.         0         0         0      0.00    331.00    522.95
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

CCHV=     .300 CEHV=     .500
*SECNO 8275.000
 2800 NAT Q1=    3465.26  WSEL=     108.13  ENC Q1=    3465.26  WSEL=     108.93  RATIO=    .0000
 NAT Q1=    4115.  RATIOS LOB,CH,ROB=    .3790    .3237    .2973  WSEL=     108.93

3470 ENCROACHMENT STATIONS=      427.0     1059.7  TYPE=      4  TARGET=        .158
  8275.00     15.78    109.11      0.00    108.13    109.11       .01       .08       .00    102.13
    1760.      630.      670.      460.     2500.      704.     1956.      530.       58.    101.73
     3.05       .25       .95       .24      .115      .040      .115     0.000     93.33    427.04
  .000024     4750.     5175.     4350.         1         0         0      0.00    632.69   1059.73

*SECNO 8400.000
 2800 NAT Q1=    2548.51  WSEL=     108.13  ENC Q1=    2548.51  WSEL=     108.93  RATIO=  0.0000
 NAT Q1=    3153.  RATIOS LOB,CH,ROB=    .2267    .4929    .2804  WSEL=     108.93

3470 ENCROACHMENT STATIONS=      452.9     1038.7  TYPE=      4  TARGET=        .192
  8400.00     14.58    109.11      0.00    108.13    109.12       .01       .00       .00    105.23
    1760.      292.     1066.      402.     1231.     1001.     1375.      543.       60.    104.83
     3.09       .24      1.07       .29      .115      .040      .115     0.000     94.53    452.93
  .000044      125.      125.      125.         0         0         0      0.00    585.78   1038.71

*SECNO 8410.000
 2800 NAT Q1=     558.75  WSEL=     108.09  ENC Q1=     558.75  WSEL=     108.89  RATIO=  0.0000
 NAT Q1=     564.  RATIOS LOB,CH,ROB=  0.0000    .9908    .0092  WSEL=     108.89

3370 NORMAL BRIDGE,NRD= 31 MIN ELTRD=  108.41 MAX ELLC=  106.82

3470 ENCROACHMENT STATIONS=      715.0      824.0  TYPE=      4  TARGET=        .009
  8410.00     14.47    109.07      0.00    108.09    109.16       .10       .00       .04    105.30
    1760.        0.     1760.        0.        0.      706.        0.      543.       60.    104.90
     3.09      0.00      2.49      0.00      .115      .036      .115     0.000     94.60    715.00
  .001025       10.       10.       10.         2         0         0   -282.45    109.00    824.00

*SECNO 8448.000
 2800 NAT Q1=     558.75  WSEL=     108.13  ENC Q1=     558.75  WSEL=     108.93  RATIO=  0.0000
 NAT Q1=     565.  RATIOS LOB,CH,ROB=  0.0000    .9893    .0107  WSEL=     108.93

3370 NORMAL BRIDGE,NRD= 31 MIN ELTRD=  108.41 MAX ELLC=  107.08
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3470 ENCROACHMENT STATIONS=      715.0      824.0  TYPE=      4  TARGET=          .011
  8448.00     14.25    109.11      0.00    108.13    109.20       .10       .04       .00    105.56
    1760.        0.     1760.        0.        0.      706.        0.      544.       60.    105.16
     3.10      0.00      2.49      0.00      .115      .036      .115     0.000     94.86    715.00
  .001176       38.       38.       38.         0         0         0   -257.58    109.00    824.00


*SECNO 8458.000
 2800 NAT Q1=    1237.29  WSEL=     108.17  ENC Q1=    1454.46  WSEL=     108.97  RATIO=  -.1755
 NAT Q1=    2880.  RATIOS LOB,CH,ROB=    .2186    .5050    .2764  WSEL=     108.97

3470 ENCROACHMENT STATIONS=      715.0      824.0  TYPE=      4  TARGET=          .495
  8458.00     14.25    109.17      0.00    108.17    109.22       .05       .00       .01    105.62
    1760.        0.     1760.        0.        0.      965.        0.      544.       60.    105.22
     3.10      0.00      1.82      0.00      .115      .040      .115     0.000     94.92    715.00
  .000148       10.       10.       10.         2         0         0      0.00    109.00    824.00


*SECNO 8550.000
 2800 NAT Q1=    2233.58  WSEL=     108.25  ENC Q1=    2233.58  WSEL=     109.05  RATIO=   .0000
 NAT Q1=    2755.  RATIOS LOB,CH,ROB=    .3595    .3760    .2645  WSEL=     109.05

3470 ENCROACHMENT STATIONS=      457.6     1019.3  TYPE=      4  TARGET=          .189
  8550.00     14.01    109.23      0.00    108.25    109.24       .01       .01       .01    104.02
    1760.       580.      808.      372.     1755.      607.     1239.      549.       61.    103.62
     3.13       .33      1.33       .30      .115      .040      .115     0.000     95.22    457.57
  .000058       92.       92.       92.         2         0         0      0.00    561.71   1019.28


CCHV=     .100 CEHV=     .300
*SECNO 8650.000
 2800 NAT Q1=    1844.29  WSEL=     108.26  ENC Q1=    1844.29  WSEL=     109.06  RATIO=   .0000
 NAT Q1=    2311.  RATIOS LOB,CH,ROB=    .3504    .4029    .2468  WSEL=     109.06

3470 ENCROACHMENT STATIONS=      468.8     1002.0  TYPE=      4  TARGET=          .202
  8650.00     13.33    109.23      0.00    108.26    109.25       .02       .01       .00    104.70
    1760.       555.      878.      327.     1501.      570.      985.      557.       62.    104.30
     3.16       .37      1.54       .33      .115      .040      .115     0.000     95.90    468.85
  .000084      100.      100.      100.         0         0         0      0.00    533.10   1001.95
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST

CCHV=     .300 CEHV=     .500
*SECNO 14700.000
 2800 NAT Q1=     836.11  WSEL=     109.24  ENC Q1=     836.11  WSEL=     110.04  RATIO=  0.0000
 NAT Q1=    1158.  RATIOS LOB,CH,ROB=    .3298    .3266    .3437  WSEL=     110.04

3470 ENCROACHMENT STATIONS=      586.6      926.9  TYPE=      4  TARGET=        .278
 14700.00      9.45    110.15      0.00    109.24    110.19       .04       .93       .01    102.40
    1760.      467.      791.      502.      661.      346.      717.      868.      119.    104.30
     4.30       .71      2.29       .70      .120      .055      .120     0.000    100.70    586.59
  .000421     5650.     6050.     5500.         1         0         0      0.00    340.31    926.90

*SECNO 14800.000
 2800 NAT Q1=     204.65  WSEL=     108.65  ENC Q1=     236.78  WSEL=     109.45  RATIO=  -.1570
 NAT Q1=     237.  RATIOS LOB,CH,ROB=  0.0000  1.0000  0.0000  WSEL=     109.45

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=      739.0      760.0  TYPE=      4  TARGET=       0.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      110.20 ELREA=      110.20

 14800.00     10.69    109.71      0.00    108.65    110.86      1.15       .11       .56    100.80
    1760.        0.      1760.       0.        0.      204.        0.      870.      119.    101.75
     4.30      0.00      8.61      0.00      .120      .055      .120     0.000     99.02    739.00
  .007698      100.      100.      100.         2         0         0      0.00     21.00    760.00

*SECNO 14810.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF   106.020 EGLC=   109.354 EGC=   116.426 WSEL=   115.884

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF   106.020 EGLC=   109.354 EGC=   109.357 WSEL=   105.992

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 27 MIN ELTRD=  114.37 MAX ELLC=  106.02

 14810.00      9.67    108.69    106.02    107.79    112.03      3.33       .08      1.09    100.80
    1760.        0.      1760.       0.        0.      120.        0.      870.      119.    101.75
     4.30      0.00     14.65      0.00      .120      .014      .120     0.000     99.02    373.41
  .008244       10.       10.       10.         4        20         0 -1780.66    790.08   1163.49
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

*SECNO 15035.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF   106.020 EGLC=   109.354 EGC=   116.426 WSEL=   115.884

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF   106.020 EGLC=   109.354 EGC=   109.357 WSEL=   105.992

3370 NORMAL BRIDGE,NRD= 27 MIN ELTRD=  114.37 MAX ELLC=  106.02

 15035.00    11.53   110.55   106.02   109.64   113.88     3.33     1.85     0.00   100.80
    1760.       0.    1760.       0.       0.     120.       0.     871.     124.   101.75
     4.31     0.00    14.65     0.00     .120     .014     .120    0.000    99.02   301.96
  .008244     225.     225.     225.        4       20        0 -3398.53   933.72  1235.67

*SECNO 15045.000
 2800 NAT Q1=     411.83  WSEL=     113.20  ENC Q1=     454.64  WSEL=     114.00  RATIO=  -.1040
 NAT Q1=     455.  RATIOS LOB,CH,ROB=  0.0000  1.0000  0.0000  WSEL=     114.00

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     739.0     760.0  TYPE=     4  TARGET=       0.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      114.37 ELREA=      114.37

 15045.00    15.21   114.23     0.00   113.20   114.76     .54     .04     .84   100.80
    1760.       0.    1760.       0.       0.     300.       0.    871.    124.   101.75
     4.31     0.00     5.87     0.00     .120     .055     .120    0.000   99.02   739.00
  .002602      10.      10.      10.        3        0        0     0.00   21.00   760.00


*SECNO 15125.000
 2800 NAT Q1=   3647.00  WSEL=     114.01  ENC Q1=   3647.00  WSEL=     114.81  RATIO=  0.0000
 NAT Q1=   4336.  RATIOS LOB,CH,ROB=   .3980   .1826   .4195  WSEL=     114.81

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     414.9    1111.5  TYPE=     4  TARGET=        .159
 15125.00    14.23   114.93     0.00   114.01   114.93     .00     .01     .16   102.40
    1760.     669.     380.     711.    2729.     537.    2905.    877.    124.   104.30
     4.37      .25      .71      .24     .120     .055     .120    0.000  100.70   414.87
  .000022      80.      80.      80.        2        0        0     0.00  696.61  1111.47
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

CCHV=     .100 CEHV=     .300
*SECNO 15200.000
 2800 NAT Q1=    3648.46  WSEL=     114.01  ENC Q1=    3648.46  WSEL=     114.81  RATIO=    .0000
 NAT Q1=    4337.  RATIOS LOB,CH,ROB=    .3980    .1825    .4195  WSEL=     114.81

3470 ENCROACHMENT STATIONS=      414.8     1111.5  TYPE=      4  TARGET=        .159
 15200.00    14.23   114.93      0.00    114.01    114.93       .00       .00       .00    102.40
    1760.      669.      380.      711.     2730.      537.     2906.      888.      126.    104.30
     4.43       .25       .71       .24      .120      .055      .120     0.000    100.70    414.82
  .000022       75.       75.       75.         0         0         0      0.00    696.71   1111.53

CCHV=     .300 CEHV=     .500
*SECNO 15825.000
 2800 NAT Q1=    3091.47  WSEL=     114.03  ENC Q1=    3091.47  WSEL=     114.83  RATIO=  0.0000
 NAT Q1=    3797.  RATIOS LOB,CH,ROB=    .3090    .0831    .6079  WSEL=     114.83

3470 ENCROACHMENT STATIONS=      651.7     1449.1  TYPE=      4  TARGET=        .186
 15825.00    13.93   114.94      0.00    114.03    114.94       .00       .01       .00    104.81
    1420.      377.      144.      899.     1850.      277.     4220.      963.      135.    104.81
     5.05       .20       .52       .21      .125      .065      .125     0.000    101.01    651.69
  .000020      550.      625.      500.         0         0         0      0.00    797.45   1449.14

*SECNO 15925.000
 2800 NAT Q1=    2698.38  WSEL=     114.03  ENC Q1=    2698.38  WSEL=     114.83  RATIO=    .0000
 NAT Q1=    3354.  RATIOS LOB,CH,ROB=    .2585    .1406    .6009  WSEL=     114.83

3470 ENCROACHMENT STATIONS=      679.2     1422.0  TYPE=      4  TARGET=        .195
 15925.00    12.35   114.95      0.00    114.03    114.95       .00       .00       .00    106.24
    1420.      284.      247.      889.     1305.      454.     3798.      977.      136.    103.51
     5.15       .22       .54       .23      .125      .065      .125     0.000    102.60    679.15
  .000026      100.      100.      100.         0         0         0      0.00    742.80   1421.96

*SECNO 15935.000
     3700.   BRIDGE STENCL=     679.15    STENCR=    1421.96
 2800 NAT Q1=     206.40  WSEL=     113.99  ENC Q1=     206.40  WSEL=     114.79  RATIO=    .0000
 NAT Q1=    1066.  RATIOS LOB,CH,ROB=    .3793    .1473    .4735  WSEL=     114.79

3370 NORMAL BRIDGE,NRD= 32 MIN ELTRD=  112.65 MAX ELLC=  112.16
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3470 ENCROACHMENT STATIONS=      871.0     1008.8  TYPE=      4  TARGET=          .806
 15935.00     12.22    114.88     0.00    113.99    115.01      .13       .00       .06    106.30
    1420.        0.     1194.     226.        0.      391.     171.      978.      136.    103.57
     5.15      0.00      3.05     1.32      .125      .062     .125     0.000    102.66    871.00
  .005670       10.       10.      10.         2         0        0   -667.41    137.82   1008.82


*SECNO 15960.000
 2800 NAT Q1=     227.39  WSEL=     114.12  ENC Q1=     227.39  WSEL=     114.92  RATIO=    .0000
 NAT Q1=    1086.  RATIOS LOB,CH,ROB=    .3744    .1480    .4776  WSEL=     114.92

3370 NORMAL BRIDGE,NRD= 32 MIN ELTRD=  112.65 MAX ELLC=  112.31


3470 ENCROACHMENT STATIONS=      871.0     1013.9  TYPE=      4  TARGET=          .791
 15960.00     12.22    115.03     0.00    114.12    115.15      .11       .13       .00    106.45
    1420.        0.     1162.     258.        0.      398.     196.      978.      137.    103.72
     5.15      0.00      2.92     1.32      .125      .062     .125     0.000    102.81    871.00
  .005079       25.       25.      25.         2         0        0   -672.84    142.91   1013.91


*SECNO 15970.000
 2800 NAT Q1=    2619.20  WSEL=     114.19  ENC Q1=    2619.20  WSEL=     114.99  RATIO=  0.0000
 NAT Q1=    3264.  RATIOS LOB,CH,ROB=    .2570    .1420    .6010  WSEL=     114.99

3470 ENCROACHMENT STATIONS=      683.5     1417.4  TYPE=      4  TARGET=          .198
 15970.00     12.31    115.18     0.00    114.19    115.18      .00       .00       .03    106.51
    1420.      280.      249.     890.     1272.      453.    3753.      979.      137.    103.78
     5.16       .22       .55      .24      .125      .065     .125     0.000    102.87    683.51
  .000027       10.       10.      10.         2         0        0      0.00    733.88   1417.39


*SECNO 16035.000
 2800 NAT Q1=    2264.93  WSEL=     114.20  ENC Q1=    2264.93  WSEL=     115.00  RATIO=  0.0000
 NAT Q1=    2858.  RATIOS LOB,CH,ROB=    .2961    .0941    .6097  WSEL=     115.00

3470 ENCROACHMENT STATIONS=      696.7     1403.1  TYPE=      4  TARGET=          .207
 16035.00     12.91    115.18     0.00    114.20    115.18      .00       .00       .00    106.07
    1420.      345.      167.     908.     1349.      253.    3429.      986.      138.    106.07
     5.22       .26       .66      .26      .125      .065     .125     0.000    102.27    696.66
  .000036       65.       65.      65.         0         0        0      0.00    706.48   1403.15
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST

CCHV=     .100 CEHV=     .300
*SECNO 19325.000
 2800 NAT Q1=     349.42  WSEL=     114.48  ENC Q1=     349.42  WSEL=     115.28  RATIO=  0.0000
 NAT Q1=     480.  RATIOS LOB,CH,ROB=    .4047    .1370    .4582  WSEL=     115.28

3470 ENCROACHMENT STATIONS=     1223.4     1419.1  TYPE=      4  TARGET=        .273
 19325.00      7.88    115.44      0.00    114.48    115.47       .03       .27       .01    110.36
    1180.      442.      220.      518.      478.       93.      426.     1194.      169.    107.56
     5.85       .93      2.37      1.22      .130      .070      .130     0.000    107.56   1223.45
  .001028     2890.     3290.     3015.         2         0         0      0.00    195.62   1419.06

CCHV=     .300 CEHV=     .500
*SECNO 23625.000
3280 CROSS SECTION  23625.00 EXTENDED     90.51 FEET

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

3470 ENCROACHMENT STATIONS=      262.0      419.0  TYPE=      1  TARGET=     157.000
 23625.00      5.51    124.84    124.84    124.77    125.36       .52      8.61       .24    121.32
    640.      240.      291.      110.       67.       37.       64.     1248.      185.    124.52
     6.07      3.55      7.85      1.70      .135      .075      .135     0.000    119.33    262.00
  .047266     4050.     4300.     3975.        20        18         0      0.00    157.00    419.00

*SECNO 23725.000
3280 CROSS SECTION  23725.00 EXTENDED     91.39 FEET


3470 ENCROACHMENT STATIONS=      243.0      456.0  TYPE=      1  TARGET=     213.000
 23725.00      7.06    126.39      0.00    126.43    126.45       .06       .95       .14    121.32
    640.      179.      184.      277.      140.       58.      260.     1248.      185.    124.52
     6.09      1.28      3.15      1.06      .135      .075      .135     0.000    119.33    243.91
  .003954      100.      100.      100.         5         0         0      0.00    210.75    454.66
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
5227 DOWNSTREAM ELEV IS     122.35 ,NOT     126.39 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.56      3.00      0.00      12.03     2.97      31.81     0.00      119.33    119.33

*SECNO 23766.000
     3700.   BRIDGE STENCL=     299.00     STENCR=     349.00
3280 CROSS SECTION  23766.00 EXTENDED      94.29 FEET


3370 NORMAL BRIDGE,NRD= 17 MIN ELTRD=  128.80 MAX ELLC=  123.56

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

3470 ENCROACHMENT STATIONS=      299.0      349.0  TYPE=      1  TARGET=      50.000

4677 BRIDGE DECK DEFINITION ERROR AT STATIONS     311.00     349.00
 23766.00     9.96   129.29   129.29   129.82   129.43      .14      .26      .04   121.32
     640.       0.      65.     575.       0.      31.     186.    1249.     185.   124.52
     6.09     0.00     2.08     3.09     .135     .075     .135    0.000   119.33   299.00
  .011199      41.      41.      41.       20       15        0   -62.05    50.00   349.00


*SECNO 23825.000

3470 ENCROACHMENT STATIONS=      299.0      349.0  TYPE=      1  TARGET=      50.000
 23825.00    10.35   129.68     0.00   130.44   129.77      .09      .32      .02   121.32
     640.       0.     291.     349.       0.      98.     201.    1249.     185.   124.52
     6.10     0.00     2.97     1.74     .135     .075     .135    0.000   119.33   299.00
  .003235      59.      59.      59.        2        0        0     0.00    50.00   349.00
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*********************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
  ERROR CORR -  01,02,03,04,05
  MODIFICATION -  50,51,52,53,54,55
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

STURGEON CREEK

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
1950.000	0.00	0.00	0.00	2480.00	87.54	107.93	0.00	1.93	10.00	224.95	1290.25	0.00
1950.000	0.00	0.00	0.00	2480.00	87.54	108.93	0.00	1.76	100.00	225.00	1411.20	1.00
2050.000	100.00	0.00	0.00	2480.00	87.54	107.94	0.00	1.93	.15	225.00	1292.42	0.00
2050.000	100.00	0.00	0.00	2480.00	87.54	108.94	0.00	1.76	100.00	225.00	1412.11	1.00
2800.000	750.00	0.00	0.00	2480.00	82.16	108.02	0.00	.87	-439.58	890.98	4294.24	0.00
2800.000	750.00	0.00	0.00	2480.00	82.16	109.00	0.00	.89	195.08	519.69	3248.03	.98
2900.000	100.00	0.00	0.00	2480.00	82.16	108.02	0.00	.86	-448.12	892.06	4311.24	0.00
2900.000	100.00	0.00	0.00	2480.00	82.16	109.01	0.00	.88	192.77	523.18	3271.73	.98
2928.000	28.00	107.96	107.11	2480.00	82.16	108.04	0.00	.86	-461.54	893.74	4338.24	0.00
2928.000	28.00	107.96	107.11	2480.00	82.16	109.02	0.00	.88	192.77	523.18	3275.76	.98
3000.000	72.00	0.00	0.00	2480.00	82.16	108.04	0.00	.86	-455.71	893.01	4326.48	0.00
3000.000	72.00	0.00	0.00	2480.00	82.16	109.02	0.00	.88	192.07	522.88	3278.15	.98
3100.000	100.00	0.00	0.00	2480.00	82.16	108.04	0.00	.86	-456.57	893.12	4328.21	0.00
3100.000	100.00	0.00	0.00	2480.00	82.16	109.02	0.00	.88	191.95	522.95	3279.37	.98
8275.000	5175.00	0.00	0.00	1760.00	93.33	108.13	0.00	.93	264.99	1220.77	5817.83	0.00
8275.000	5175.00	0.00	0.00	1760.00	93.33	109.11	0.00	.95	427.04	1059.73	5160.37	.98
8400.000	125.00	0.00	0.00	1760.00	94.53	108.13	0.00	1.03	302.36	1210.88	4301.35	0.00
8400.000	125.00	0.00	0.00	1760.00	94.53	109.11	0.00	1.07	452.93	1038.71	3605.57	.97
8410.000	10.00	108.41	106.82	1760.00	94.60	108.09	0.00	2.49	304.05	1209.58	705.45	0.00
8410.000	10.00	108.41	106.82	1760.00	94.60	109.07	0.00	2.49	715.00	824.00	705.67	.98
8448.000	38.00	108.41	107.08	1760.00	94.86	108.13	0.00	2.49	307.52	1206.91	705.45	0.00
8448.000	38.00	108.41	107.08	1760.00	94.86	109.11	0.00	2.49	715.00	824.00	706.34	.98

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
8458.000	10.00	0.00	0.00	1760.00	94.92	108.17	0.00	2.06	715.00	824.00	855.86	0.00
8458.000	10.00	0.00	0.00	1760.00	94.92	109.17	0.00	1.82	715.00	824.00	964.51	1.00
8550.000	92.00	0.00	0.00	1760.00	95.22	108.25	0.00	1.30	315.94	1200.37	4203.84	0.00
8550.000	92.00	0.00	0.00	1760.00	95.22	109.23	0.00	1.33	457.57	1019.28	3601.43	.97
8650.000	100.00	0.00	0.00	1760.00	95.90	108.26	0.00	1.50	325.90	1184.51	3622.60	0.00
8650.000	100.00	0.00	0.00	1760.00	95.90	109.23	0.00	1.54	468.85	1001.95	3056.49	.97
14700.000	6050.00	0.00	0.00	1760.00	100.70	109.24	0.00	2.18	352.16	1203.51	2317.93	0.00
14700.000	6050.00	0.00	0.00	1760.00	100.70	110.15	0.00	2.29	586.59	926.90	1724.23	.91
14800.000	100.00	0.00	0.00	1760.00	99.02	108.65	0.00	9.64	739.00	760.00	182.51	0.00
14800.000	100.00	0.00	0.00	1760.00	99.02	109.71	0.00	8.61	739.00	760.00	204.44	1.05
14810.000	10.00	114.37	106.02	1760.00	99.02	107.79	106.02	14.65	416.54	1082.04	120.12	0.00
14810.000	10.00	114.37	106.02	1760.00	99.02	108.69	106.02	14.65	373.41	1163.49	120.12	.91
15035.000	225.00	114.37	106.02	1760.00	99.02	109.64	106.02	14.65	337.00	1213.30	120.12	0.00
15035.000	225.00	114.37	106.02	1760.00	99.02	110.55	106.02	14.65	301.96	1235.67	120.12	.91
15045.000	10.00	0.00	0.00	1760.00	99.02	113.20	0.00	6.34	739.00	760.00	277.65	0.00
15045.000	10.00	0.00	0.00	1760.00	99.02	114.23	0.00	5.87	739.00	760.00	299.72	1.03
15125.000	80.00	0.00	0.00	1760.00	100.70	114.01	0.00	.69	182.12	1323.86	7063.44	0.00
15125.000	80.00	0.00	0.00	1760.00	100.70	114.93	0.00	.71	414.87	1111.47	6172.03	.92
15200.000	75.00	0.00	0.00	1760.00	100.70	114.01	0.00	.69	182.05	1323.91	7065.47	0.00
15200.000	75.00	0.00	0.00	1760.00	100.70	114.93	0.00	.71	414.82	1111.53	6173.83	.92
15825.000	625.00	0.00	0.00	1420.00	101.01	114.03	0.00	.51	338.94	1805.99	7360.63	0.00
15825.000	625.00	0.00	0.00	1420.00	101.01	114.94	0.00	.52	651.69	1449.14	6347.14	.92
15925.000	100.00	0.00	0.00	1420.00	102.60	114.03	0.00	.52	378.76	1754.57	6522.89	0.00
15925.000	100.00	0.00	0.00	1420.00	102.60	114.95	0.00	.54	679.15	1421.96	5557.53	.92
15935.000	10.00	112.65	112.16	1420.00	102.66	113.99	0.00	2.62	385.07	1745.53	990.53	0.00
15935.000	10.00	112.65	112.16	1420.00	102.66	114.88	0.00	3.05	871.00	1008.82	562.23	.89
15960.000	25.00	112.65	112.31	1420.00	102.81	114.12	0.00	2.40	386.64	1743.29	1096.71	0.00
15960.000	25.00	112.65	112.31	1420.00	102.81	115.03	0.00	2.92	871.00	1013.91	593.70	.91
15970.000	10.00	0.00	0.00	1420.00	102.87	114.19	0.00	.54	385.69	1744.65	6380.83	0.00
15970.000	10.00	0.00	0.00	1420.00	102.87	115.18	0.00	.55	683.51	1417.39	5478.62	.99
16035.000	65.00	0.00	0.00	1420.00	102.27	114.20	0.00	.64	408.66	1704.75	5857.29	0.00
16035.000	65.00	0.00	0.00	1420.00	102.27	115.18	0.00	.66	696.66	1403.15	5031.46	.99
19325.000	3290.00	0.00	0.00	1180.00	107.56	114.48	0.00	2.25	1134.76	1474.95	1171.42	0.00
19325.000	3290.00	0.00	0.00	1180.00	107.56	115.44	0.00	2.37	1223.45	1419.06	996.26	.96

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
*	23625.000	4300.00	0.00	0.00	640.00	119.33	124.77	124.77	8.39	261.51	418.65	157.07	0.00
*	23625.000	4300.00	0.00	0.00	640.00	119.33	124.84	124.84	7.85	262.00	419.00	168.92	.08
	23725.000	100.00	0.00	0.00	640.00	119.33	126.43	0.00	3.09	243.45	455.59	466.84	0.00
	23725.000	100.00	0.00	0.00	640.00	119.33	126.39	0.00	3.15	243.91	454.66	458.00	-.04
*	23766.000	41.00	128.80	123.56	640.00	119.33	129.82	129.82	7.66	206.65	534.09	144.94	0.00
*	23766.000	41.00	128.80	123.56	640.00	119.33	129.29	129.29	2.08	299.00	349.00	217.20	-.53
	23825.000	59.00	0.00	0.00	640.00	119.33	130.44	0.00	.87	198.85	549.49	1589.54	0.00
	23825.000	59.00	0.00	0.00	640.00	119.33	129.68	0.00	2.97	299.00	349.00	298.79	-.77

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION  SECNO=23625.000  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=23625.000  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=23625.000  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=23625.000  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=23625.000  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=23625.000  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=23766.000  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=23766.000  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=23766.000  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=23766.000  PROFILE= 1  SLOPE TOO STEEP
CAUTION  SECNO=23766.000  PROFILE= 1  HYDRAULIC JUMP D.S.
CAUTION  SECNO=23766.000  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=23766.000  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=23766.000  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=23766.000  PROFILE= 2  HYDRAULIC JUMP D.S.
CAUTION  SECNO=23766.000  PROFILE= 2  BRIDGE DECK DEFINITION ERROR
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FLOODWAY DATA, STURGEON CREEK
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
A 1950.000	125.	1411.	1.8	108.9	107.9	1.0
2050.000	125.	1412.	1.8	108.9	107.9	1.0
B 2800.000	325.	3248.	.8	109.0	108.0	1.0
2900.000	330.	3272.	.8	109.0	108.0	1.0
2928.000	330.	3276.	.8	109.0	108.0	1.0
3000.000	331.	3278.	.8	109.0	108.0	1.0
C 3100.000	331.	3279.	.8	109.0	108.0	1.0
D 8275.000	633.	5160.	.3	109.1	108.1	1.0
8400.000	586.	3606.	.5	109.1	108.1	1.0
8410.000	109.	706.	2.5	109.1	108.1	1.0
8448.000	109.	706.	2.5	109.1	108.1	1.0
8458.000	109.	965.	1.8	109.2	108.2	1.0
8550.000	562.	3601.	.5	109.3	108.3	1.0
E 8650.000	533.	3056.	.6	109.3	108.3	1.0
F 14700.000	340.	1724.	1.0	110.1	109.2	.9
14800.000	21.	204.	8.6	109.8	108.7	1.1
14810.000	790.	120.	14.7	108.7	107.8	.9
15035.000	934.	120.	14.7	110.5	109.6	.9
15045.000	21.	300.	5.9	114.2	113.2	1.0
15125.000	697.	6172.	.3	114.9	114.0	.9
G 15200.000	697.	6174.	.3	114.9	114.0	.9
H 15825.000	797.	6347.	.2	114.9	114.0	.9
15925.000	743.	5558.	.3	114.9	114.0	.9
15935.000	138.	562.	2.5	114.9	114.0	.9
15960.000	143.	594.	2.4	115.0	114.1	.9
15970.000	734.	5479.	.3	115.2	114.2	1.0
I 16035.000	706.	5031.	.3	115.2	114.2	1.0
J 19325.000	196.	996.	1.2	115.5	114.5	1.0
K 23625.000	157.	169.	3.8	124.9	124.8	.1
23725.000	211.	458.	1.4	126.4	126.4	0.0
23766.000	50.	217.	2.9	129.4	129.8	-.4
L 23825.000	50.	299.	2.1	129.7	130.4	-.7

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  HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
  ERROR CORR -  01,02,03,04,05
  MODIFICATION -  50,51,52,53,54,55
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