
 HEC2 RELEASE DATED NOV 76 (UPDATED FEB 1977)
 ERROR CORR - 01
 MODIFICATION - 50,51,52

C
 T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 5918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.000600	0.0	0.0	0.	620.700	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	201.000	0.0	0.0	0.0	0.0	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	3600.000	5800.000	7500.000	10500.000	7500.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	23810.000	13.000	1183.000	1248.000	23810.000	23810.000	23810.000	0.0	-2.200	0.0
GR	635.300	1000.000	622.100	1083.000	619.600	1100.000	621.700	1183.000	619.300	1195.000
GR	618.400	1215.000	617.900	1233.000	622.900	1248.000	623.300	1300.000	624.300	1400.000
GR	626.800	1500.000	629.500	1500.000	630.900	1700.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	23910.000	16.000	1270.000	1406.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	647.900	1000.000	639.800	1100.000	634.400	1200.000	632.900	1270.000	626.300	1270.000
GR	626.300	1288.000	619.900	1300.000	617.300	1326.000	619.300	1352.000	624.300	1367.000
GR	625.300	1406.000	632.900	1406.000	632.200	1500.000	631.600	1600.000	630.400	1700.000
GR	631.200	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	70.000	1.000	1453.300	2.900	0.0	0.0

2274 ROWD JERSEY CH. RD. MXLCEL 630.7 RDELV 632.8

X1	23939.000	0.0	0.0	0.0	29.000	29.000	29.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	630.700	630.700	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	647.900	0.0	1100.000	639.800	0.0	1200.000	634.400	0.0
BT	1270.000	632.900	630.700	1406.000	632.900	630.700	1500.000	632.200	0.0	1600.000
BT	631.600	0.0	1700.000	630.700	0.0	1800.000	631.200	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	24034.000	13.000	1183.000	1248.000	100.000	100.000	100.000	0.0	0.0	0.0
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GR	635.300	1000.000	622.100	1083.000	619.600	1100.000	621.700	1183.000	619.300	1195.000
GR	618.400	1215.000	617.900	1233.000	622.900	1248.000	623.300	1300.000	624.300	1400.000
GR	626.800	1500.000	629.500	1610.000	630.900	1700.000	0.0	0.0	0.0	0.0
QT	5.000	3150.000	5400.000	7000.000	9300.000	7000.000	0.0	0.0	0.0	0.0

X1	26650.000	12.000	1133.000	1170.300	2611.000	2611.000	2611.000	0.0	0.0	0.0
GR	640.100	1000.000	631.400	1066.000	628.900	1100.000	625.200	1133.000	620.000	1135.000
GR	615.800	1347.000	620.000	1159.000	625.200	1170.000	625.400	1200.000	625.500	1300.000
GR	626.100	1400.000	641.200	1460.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	3100.000	5150.000	6900.000	9600.000	6900.000	0.0	0.0	0.0	0.0

X1	31270.000	15.000	1395.000	1432.000	4620.000	4620.000	4620.000	0.0	0.0	0.0
GR	642.000	1000.000	639.000	1100.000	638.200	1200.000	637.200	1300.000	636.500	1340.000
GP	629.100	1359.000	629.000	1395.000	626.000	1398.000	624.800	1413.000	625.700	1428.000
GR	629.200	1432.000	629.200	1500.000	631.900	1600.000	635.400	1700.000	634.100	1800.000
NC	0.960	0.960	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	31320.000	15.000	1401.000	1439.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	641.500	1000.000	636.200	1100.000	637.200	1200.000	635.000	1300.000	630.400	1401.000
GR	629.200	1401.000	625.400	1406.000	625.400	1418.000	624.800	1430.000	629.200	1439.000
GR	630.400	1439.000	630.200	1500.000	631.200	1600.000	634.400	1700.000	635.700	1800.000
SB	0.900	1.500	2.500	0.0	39.000	0.010	107.000	0.0	0.0	0.0

RONA FARM ROAD MXLCEL 629.2 RDELV 630.4

X1	31336.000	0.0	0.0	0.0	16.000	16.000	16.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	629.200	0.0	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	641.500	0.0	1100.000	635.200	0.0	1200.000	637.200	0.0
BT	1300.000	635.000	0.0	1401.000	630.400	629.200	1439.000	630.400	629.200	1500.000
BT	630.200	0.0	1600.000	631.200	0.0	1700.000	634.400	0.0	1800.000	635.700
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	31386.000	15.000	1395.000	1432.000	50.000	50.000	50.000	0.0	2.000	0.0
GR	642.000	1000.000	639.000	1100.000	638.200	1200.000	637.200	1300.000	636.500	1340.000
GR	629.100	1359.000	629.000	1395.000	626.000	1398.000	624.800	1413.000	625.700	1428.000
GR	629.200	1432.000	629.200	1500.000	631.900	1600.000	635.400	1700.000	634.100	1800.000
QT	5.000	3100.000	5150.000	6900.000	9600.000	6900.000	0.0	0.0	0.0	0.0

X1	35555.000	13.000	1272.000	1322.000	4169.000	4169.000	4169.000	0.0	0.220	0.0
GR	643.400	1000.000	646.000	1100.000	642.500	1200.000	635.400	1272.000	631.300	1276.000
GR	629.600	1298.000	630.700	1320.000	634.000	1322.000	636.300	1400.000	637.300	1429.000
GR	642.600	1450.000	642.800	1500.000	647.400	1550.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	35585.000	16.000	1400.000	1506.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	639.100	1000.000	638.200	1100.000	638.900	1200.000	640.100	1300.000	643.700	1400.000
GR										

THIESE ST

BT	645.100	0.0	1700.000	650.000	0.0	1800.000	655.400	0.0	0.0	0.0
NC	0.055	0.055	0.05	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	35644.000	13.000	1272.000	1322.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	643.400	1000.000	646.000	1100.000	642.500	1200.000	635.400	1272.000	631.300	1276.000
GR	625.600	1298.000	630.700	1320.000	634.000	1322.000	636.300	1400.000	637.300	1429.000
GP	642.600	1450.000	644.800	1500.000	647.400	1550.000	0.0	0.0	0.0	0.0
QT	5.000	3000.000	500.000	6500.000	9000.000	6500.000	0.0	0.0	0.0	0.0
X1	38900.000	12.000	1350.000	1394.000	3256.000	3256.000	3256.000	0.0	0.0	0.0
GR	641.800	1000.000	640.000	1100.000	639.300	1200.000	641.300	1300.000	640.800	1350.000
GR	634.500	1351.000	631.200	1371.000	634.400	1390.000	641.100	1394.000	640.700	1414.000
GR	647.900	1425.000	651.100	1452.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	3000.000	5000.000	6400.000	9000.000	6400.000	0.0	0.0	0.0	0.0
X1	41405.000	10.000	1030.000	1075.000	2505.000	2505.000	2505.000	0.0	-0.200	0.0
GR	657.000	1000.000	641.200	1030.000	634.800	1036.000	634.300	1053.000	634.800	1071.000
GR	640.400	1075.000	649.000	1093.000	650.000	1100.000	652.400	1170.000	655.800	1180.000
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	41440.000	15.000	1401.000	1520.000	35.000	35.000	35.000	0.0	0.0	0.0
GR	667.200	1000.000	664.800	1100.000	661.600	1200.000	658.900	1300.000	656.700	1401.000
GR	649.600	1401.000	637.400	1424.000	634.400	1440.000	635.500	1462.000	643.000	1464.000
GR	651.400	1520.000	656.700	1520.000	657.000	1600.000	656.500	1700.000	657.200	1800.000
SB	0.900	1.500	2.500	0.0	70.000	1.000	1645.000	1.500	0.0	0.0

RDND NCSR 1104 1430 MXLCEL 651.4 RDELV 656.7

X1	41460.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	651.400	656.500	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	667.200	0.0	1100.000	664.800	0.0	1200.000	661.600	0.0
BT	1300.000	658.900	0.0	1401.000	656.700	649.600	1520.000	656.700	651.400	1600.000
BT	657.000	0.0	1700.000	656.500	0.0	1800.000	657.200	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	41495.000	10.000	1030.000	1075.000	35.000	35.000	35.000	0.0	0.0	0.0
GR	657.000	1000.000	641.200	1030.000	634.200	1036.000	634.300	1053.000	634.800	1071.000
GR	640.400	1075.000	649.000	1093.000	650.000	1100.000	652.400	1170.000	655.800	1180.000
QT	5.000	2975.000	4900.000	6300.000	8950.000	6300.000	0.0	0.0	0.0	0.0
X1	44950.000	11.000	1300.000	1338.000	3455.000	3455.000	3455.000	0.0	0.0	0.0
GR	651.600	1000.000	650.700	1100.000	650.500	1200.000	650.900	1300.000	645.500	1306.000
GR	644.700	1321.000	645.300	1336.000	651.800	1338.000	661.000	1380.000	662.800	1400.000
GR	666.200	1500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	2900.000	4750.000	6100.000	8700.000	6100.000	0.0	0.0	0.0	0.0
X1	48400.000	11.000	1188.000	1232.000	3450.000	3450.000	3450.000	0.0	0.0	0.0
GR	669.000	1000.000	658.700	1100.000	653.000	1140.000	654.100	1188.000	648.600	1194.000
GR	648.600	1211.000	650.000	1224.000	655.900	1232.000	653.200	1300.000	654.900	1315.000
GR	653.200	1400.000	0.0	0.0	0.0					

49635

X1	49285.000	12.000	1454.500	1513.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	694.000	1000.000	691.500	1274.000	663.300	1376.000	662.100	1447.000	660.500	1454.500
GR	652.000	1462.000	650.500	1484.000	652.000	1506.000	660.500	1513.500	660.000	1547.000
GR	652.200	1576.000	688.300	1800.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	20.000	0.010	1282.000	0.450	0.0	0.0

49650

RDND SOUTHERN RR MXLCEL 680.5 RDELV 690.0

49664

X1	49314.000	0.0	0.0	0.0	29.000	29.000	29.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	680.500	688.300	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	694.000	0.0	1100.000	693.000	0.0	1200.000	692.100	0.0
BT	1300.000	691.300	0.0	1400.000	690.500	0.0	1454.500	690.200	660.500	1462.000
BT	690.200	670.500	1484.000	690.000	680.500	1506.000	690.000	670.500	1513.500	689.700
BT	660.500	1600.000	689.200	0.0	1700.000	688.700	0.0	1800.000	688.300	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

49714

X1	49364.000	10.000	1170.000	1226.000	50.000	50.000	50.000	0.0	3.400	0.0
GR	669.900	1000.000	661.500	1100.000	660.500	1170.000	649.200	1185.000	648.800	1205.000
GR	649.300	1225.000	654.600	1226.000	656.100	1256.000	663.700	1300.000	669.900	1330.000
QT	5.000	2900.000	4750.000	6100.000	8700.000	6100.000	0.0	0.0	0.0	0.0

52033

X1	51730.000	13.000	1400.000	1430.000	2366.000	2366.000	2366.000	0.0	0.0	0.0
GR	654.700	1000.000	654.600	1100.000	655.200	1200.000	655.500	1300.000	656.900	1400.000
GR	651.200	1402.000	651.400	1415.000	651.500	1428.000	657.800	1430.000	654.500	1500.000
GR	655.300	1600.000	655.800	1700.000	656.100	1800.000	0.0	0.0	0.0	0.0
VC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

52113

X1	51830.000	20.000	1443.000	1576.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	683.500	1000.000	678.700	1100.000	673.800	1200.000	670.400	1300.000	668.900	1400.000
GR	669.000	1443.000	664.100	1443.000	664.100	1448.000	655.400	1462.000	656.400	1495.000
GR	651.600	1500.000	651.600	1516.000	651.600	1527.000	654.700	1529.000	656.400	1559.000
GR	664.400	1576.000	669.000	1576.000	668.800	1600.000	668.700	1700.000	669.300	1800.000
SB	0.900	1.500	2.500	0.0	23.000	3.000	1075.200	3.300	0.0	0.0

52130

RDND NBL I-85 MXLCEL 665.6 RDELV 669.0

52148

X1	51865.000	0.0	0.0	0.0	35.000	35.000	35.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	665.600	668.700	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	683.500	0.0	1100.000	678.700	0.0	1200.000	673.800	0.0
BT	1300.000	670.400	0.0	1400.000	668.900	0.0	1443.000	669.000	665.600	1576.000
BT	669.000	665.600	1600.000	668.800	0.0	1700.000	668.700	0.0	1800.000	669.300
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

52179

X1	51960.000	13.000	1400.000	1430.000	95.000	95
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RDNO SBL T-85 MXLCEL 665.8 RDELV 667.4

52225 52240

X1	52085.000	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	665.800	667.400	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	680.900	0.0	1100.000	677.000	0.0	1200.000	673.100	0.0
BT	1300.000	669.700	0.0	1400.000	667.500	0.0	1500.000	666.800	0.0	1550.000
BT	667.400	665.800	1637.000	667.400	665.800	1700.000	669.400	0.0	1800.000	669.900
BT	0.0	1900.000	670.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

52340

X1	52185.000	13.000	1400.000	1430.000	100.000	100.000	100.000	0.0	0.500	0.0
GR	654.700	1000.000	654.600	1100.000	655.200	1200.000	655.500	1300.000	656.900	1400.000
GR	651.200	1402.000	651.400	1415.000	651.500	1428.000	657.800	1430.000	654.500	1500.000
GR	655.300	1600.000	655.800	1700.000	656.100	1800.000	0.0	0.0	0.0	0.0
QT	5.000	2825.000	4600.000	6000.000	8600.000	6000.000	0.0	0.0	0.0	0.0

544560

X1	54090.000	14.000	1400.000	1450.000	1905.000	1905.000	1905.000	0.0	-0.900	0.0
GR	659.500	1000.000	658.300	1100.000	659.300	1200.000	659.600	1300.000	660.300	1400.000
GR	653.500	1407.000	653.900	1415.000	654.700	1423.000	655.800	1440.000	660.400	1450.000
GR	660.100	1500.000	659.400	1600.000	660.500	1700.000	662.900	1800.000	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

54610

X1	54140.000	16.000	1400.000	1568.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	671.200	1000.000	671.700	1100.000	672.300	1200.000	672.900	1300.000	673.700	1400.000
GR	660.300	1400.000	657.800	1496.000	653.400	1500.000	653.400	1518.000	654.200	1529.000
GR	658.300	1535.000	657.300	1568.000	674.000	1568.000	673.400	1600.000	673.600	1700.000
GR	673.400	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	75.000	0.0	1992.000	2.900	0.0	0.0

54620 54630 RDNO OLD US 29 MXLCEL 670.1 RDELV 674.0

X1	54160.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	670.100	671.200	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	671.200	0.0	1100.000	671.700	0.0	1200.000	672.300	0.0
BT	1300.000	672.900	0.0	1400.000	674.000	670.100	1568.000	674.000	670.100	1600.000
BT	673.400	0.0	1700.000	673.600	0.0	1800.000	673.400	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

54680

X1	54210.000	14.000	1400.000	1450.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	659.500	1000.000	658.300	1100.000	659.300	1200.000	659.600	1300.000	660.300	1400.000
GR	653.500	1407.000	653.900	1415.000	654.700	1423.000	655.800	1440.000	660.400	1450.000
GR	660.100	1500.000	659.400	1600.000	660.500	1700.000	662.900	1800.000	0.0	0.0
QT	5.000	2190.000	3650.000	4790.000	6600.000	4790.000	0.0	0.0	0.0	0.0

57927 2847 2847 2847

X1	569
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63327

X1	62775.000	11.000	1038.000	1060.000	1665.000	1665.000	1665.000	0.0	0.0	0.0
GR	686.900	1000.000	674.700	1030.000	674.600	1038.000	669.100	1039.000	668.800	1047.000
GR	669.100	1057.000	674.700	1060.000	673.300	1100.000	672.200	1200.000	671.500	1300.000
GR	671.300	1400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

64417

X1	638.650	0.0	0.0	0.0	1090.000	1090.000	1090.000	0.0	1.900	0.0
QT	5.000	2100.000	3450.000	4500.000	6400.000	4500.000	0.0	0.0	0.0	0.0

65507

X1	64955.000	11.000	1210.000	1233.000	1090.000	1090.000	1090.000	0.0	-4.400	0.0
GR	682.800	1000.000	676.700	1100.000	676.600	1200.000	676.900	1210.000	672.900	1215.000
GR	672.700	1222.000	672.900	1230.000	676.800	1233.000	676.700	1300.000	676.100	1400.000
GR	676.700	1500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

65582

X1	65030.000	16.000	1340.000	1397.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	701.300	1000.000	695.500	1100.000	690.500	1200.000	686.700	1300.000	687.700	1340.000
GR	675.700	1340.000	673.300	1348.000	670.500	1315.000	673.800	1388.000	676.900	1392.000
GR	677.300	1397.000	686.300	1397.000	685.100	1500.000	685.200	1600.000	685.100	1700.000
GR	688.200	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	29.000	1.700	550.800	1.300	0.0	0.0

65600

RDNO OLD 64 MXLCEL 683.3 ROELV 686.3

X1	65065.000	0.0	0.0	0.0	35.000	35.000	35.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	683.300	685.100	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	701.300	0.0	1100.000	695.500	0.0	1200.000	690.500	0.0
BT	1300.000	686.700	0.0	1340.000	685.700	682.700	1397.000	686.300	683.300	1500.000
BT	685.100	0.0	1400.000	685.200	0.0	1700.000	685.100	0.0	1800.000	688.200
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

65692

X1	65140.000	11.000	1210.000	1233.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	682.800	1000.000	676.700	1100.000	676.600	1200.000	676.800	1210.000	672.900	1215.000
GR	672.700	1222.000	672.900	1230.000	676.800	1233.000	676.700	1300.000	676.100	1400.000
GR	676.700	1500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1790.000	2900.000	3800.000	5400.000	3800.000	0.0	0.0	0.0	0.0

66784

X1	66.232	0.0	0.0	0.0	1092.000	1092.000	1092.000	0.0	3.900	0.0
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67875

X1	67325.000	12.000	1370.000	1386.000	1093.000	1093.000	1093.000	0.0	0.0	0.0
GR	681.300	1000.000	680.800	1100.000	680.800	1200.000	682.100	1300.000	683.300	1370.000
GR	680.900	1371.000	680.500	1375.000	680.900	1383.000	683.300	1386.000	683.300	1400.000
GR	688.100	1416.000	697.200	1500.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1720.000	2800.000	3720.000	5200.000	3720.000	0.0	0.0	0.0	0.0

SB 0.900 1.500 2.000 0.0 35.000 1.000 211.000 0.0 0.0 0.0

69400
69411

RDNQ NCSR 1231 MXLCEL 688.6 RDELV 690.2

X1	68861.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	688.600	688.700	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	688.700	0.0	1100.000	689.000	0.0	1200.000	689.300	0.0
BT	1300.000	689.500	0.0	1400.000	690.200	688.600	1435.000	690.200	688.600	1500.000
BT	690.500	0.0	1600.000	690.900	0.0	1700.000	691.700	0.0	1800.000	693.900
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

69711

X1	69161.000	12.000	1400.000	1415.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	683.000	1000.000	683.500	1100.000	683.800	1200.000	684.200	1300.000	685.400	1400.000
GR	683.000	1402.000	682.800	1407.000	683.000	1413.000	685.400	1415.000	683.900	1500.000
GR	693.800	1600.000	698.600	1665.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1720.000	2800.000	3720.000	5200.000	3720.000	0.0	0.0	0.0	0.0

70003

X1	69573.000	15.000	1455.000	1482.000	412.000	412.000	412.000	0.0	0.0	0.0
GR	697.800	1000.000	686.100	1064.000	685.200	1100.000	685.400	1200.000	685.500	1300.000
GR	687.500	1400.000	687.400	1455.000	683.400	1456.000	683.300	1466.000	683.900	1476.000
GR	687.900	1482.000	687.600	1500.000	687.500	1600.000	690.800	1700.000	695.300	1800.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

70053

X1	69623.000	15.000	1399.000	1420.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	696.400	944.000	684.700	1008.000	683.800	1044.000	684.000	1144.000	685.500	1244.000
GR	686.100	1344.000	686.000	1399.000	681.900	1399.000	681.900	1420.000	686.500	1420.000
GR	686.200	1444.000	686.100	1544.000	689.400	1644.000	693.000	1744.000	701.300	1800.000
SB	0.900	1.500	2.500	0.0	21.000	0.250	166.000	0.0	0.0	0.0

70080

70107

RDNQ RT 64 MXLCEL 689.9 RDELV 694.1

X1	69677.000	0.0	0.0	0.0	54.000	54.000	54.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	689.900	693.300	0.0	0.0	0.0	0.0	0.0
BT	12.000	944.000	696.400	0.0	1000.000	695.300	0.0	1100.000	694.400	0.0
BT	1200.000	693.800	0.0	1300.000	693.800	0.0	1399.000	694.100	689.900	1420.000
BT	694.100	689.900	1500.000	695.300	0.0	1600.000	697.200	0.0	1700.000	699.300
BT	0.0	1750.000	700.300	0.0	1800.000	701.300	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

70157

X1	69727.000	15.000	1455.000	1482.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	697.800	1000.000	686.100	1064.000	685.200	1100.000	685.400	1200.000	685.500	1300.000
GR	687.500	1400.000	687.400	1455.000	683.400	1456.000	683.300	1466.000	683.900	1476.000
GR	687.900	1482.000	687.600	1500.000	687.500	1600.000	690.800	1700.000	695.300	1800.000
QT	5.000	1590.000	2600.000	3400.000	4900.000	3400.000	0.0	0.0	0.0	0.0

74120

X1	73475.000	14.000	1400.000	1413.000	3748.000	3748.000	3748.000	0.0	0.0	0.0
GR	695.500	1000.000	695.500	1100.000	695.400	1200.000	696.90			

76215
 X1 75630.000 18.000 1512.000 1303.000 75.000 75.000 75.000 0.0 0.0 0.0
 GR 726.100 1000.000 722.400 1100.000 719.000 1200.000 715.600 1300.000 712.600 1400.000
 GR 710.800 1500.000 710.900 1512.000 708.800 1512.000 700.400 1531.000 697.400 1558.000
 GR 695.900 1570.000 697.400 1582.000 705.400 1593.000 708.800 1603.000 710.900 1603.000
 GR 711.900 1700.000 712.800 1800.000 717.100 1900.000 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 91.000 2.000 741.000 0.0 0.0 0.0

76320 RONO W. CENTER ST. MXLCEL 708.8 RDELV 710.9

76366
 X1 75721.000 0.0 0.0 0.0 91.000 91.000 91.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 708.200 710.700 0.0 0.0 0.0 0.0 0.0
 BT 11.000 1000.000 726.100 0.0 1100.000 722.400 0.0 1200.000 719.000 0.0
 BT 1300.000 715.500 0.0 1400.000 712.600 0.0 1500.000 710.800 0.0 1512.000
 BT 710.900 708.800 1603.000 710.900 708.800 1700.000 711.900 0.0 1800.000 712.800
 BT 0.0 1900.000 717.100 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0 0.0

76391
 X1 75.746 13.000 1400.000 1449.000 25.000 25.000 25.000 0.0 0.0 0.0
 GR 714.100 1000.000 707.000 1100.000 707.100 1200.000 702.900 1300.000 703.200 1400.000
 GR 697.500 1418.000 696.900 1426.000 697.600 1434.000 710.200 1449.000 710.500 1500.000
 GR 711.300 1603.000 713.000 1700.000 714.600 1800.000 0.0 0.0 0.0 0.0

76416
 X1 75.771 0.0 0.0 0.0 25.000 25.000 25.000 0.0 0.300 0.0

76441
 X1 75796.000 0.0 0.0 0.0 25.000 25.000 25.000 0.0 0.300 0.0
 QT 5.000 1130.000 1900.000 2550.000 3650.000 2550.000 0.0 0.0 0.0 0.0

76450
 X1 77800.000 15.000 1324.000 1350.000 1989 2004.000 1989 2004.000 1989 2004.000 0.0 0.0 0.0
 GR 712.300 1000.000 707.600 1100.000 707.600 1200.000 708.200 1300.000 707.700 1324.000
 GR 705.700 1330.000 704.800 1339.000 705.700 1349.000 707.000 1350.000 706.000 1368.000
 GR 709.000 1370.000 709.000 1400.000 713.100 1500.000 718.000 1600.000 721.300 1685.000

80030
 X1 79.400 0.0 0.0 0.0 1600.000 1600.000 1600.000 0.0 3.000 0.0
 QT 5.000 990.000 1400.000 2200.000 3170.000 2200.000 0.0 0.0 0.0 0.0

81630
 X1 81000.000 13.000 1260.000 1278.000 1600.000 1600.000 1600.000 0.0 0.0 0.0
 GR 731.100 1000.000 719.200 1100.000 718.200 1110.000 715.500 1200.000 717.000 1260.000
 GR 711.000 1262.000 710.700 1267.000 711.000 1273.000 717.200 1278.000 718.700 1290.000
 GR 721.500 1305.000 727.400 1400.000 730.200 1500.000 0.0 0.0 0.0 0.0
 QT 5.000 920.000 1500.000 2100.000 2900.000 2100.000 0.0 0.0 0.0 0.0

83470
 X1 82840.000 12.000 1250.000 1273.000 1840.000 1840.000 1840.000 0.0 0.0 0.0
 GR 738.100 1000.000 723.100 1080.000 723.100 1100.000 723.500 1200.000 723.800 1250.000
 GR 717.600 1257.000 715.500 1261.000 717.600 1265.000 724.500 1273.000 723.800 1300.000
 GR 728.900 1400.000 738.100 1450.000 0.0 0.0 0.0 0.0 0.0 0.0
 NC 0.060 0.060 0.040 0.100 0.300 0.0 0.0 0.0 0.0 0.0

83770
 X1 53140.000 17.000 1400.000 1427.000 300.000 300.000 300.000 0.0 0.0 0.0
 GR 740.900 1000.000 735.700 1100.000 732.000 1200.000 730.100 1300.000 729.900 1400.000
 GR 719.800 1400.000 719.300 1403.000 717.800 1405.000 718.100 1414.000 717.700 1420.000
 GR 720.600 1422.000 721.600 1427.000 730.100 1427.000 730.800 1500.000 733.300 1600.000
 GR 737.100 1700.000 740.300 1800.000 0.0 0.0 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 27.000 0.010 244.000 0.0 0.0 0.0

83780 RONO NCS 1457 MXLCEL 728.1 RDELV 730.1

35791

X1	83161.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	728.100	729.900	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	740.900	0.0	1100.000	735.700	0.0	1200.000	732.000	0.0
BT	1300.000	730.100	0.0	1400.000	729.900	727.700	1427.000	730.100	728.100	1500.000
BT	730.800	0.0	1600.000	733.300	0.0	1700.000	737.100	0.0	1800.000	740.300
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

84091

X1	83461.000	12.000	1250.000	1273.000	400.000	300.000	300.000	0.0	4.400	0.0
GR	738.100	1000.000	723.100	1080.000	723.100	1100.000	723.500	1200.000	723.800	1250.000
GR	717.600	1257.000	715.500	1261.000	717.600	1265.000	724.500	1273.000	723.800	1300.000
GR	728.900	1400.000	738.100	1450.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	750.000	1220.000	1650.000	2500.000	1650.000	0.0	0.0	0.0	0.0

86130

X1	85375.000	11.000	1116.000	1125.000	1914.000	1914.000	1914.000	0.0	0.0	0.0
GR	744.900	1000.000	734.200	1030.000	730.300	1100.000	731.200	1116.000	727.800	1117.000
GR	727.800	1119.000	728.300	1122.000	731.300	1125.000	730.000	1200.000	732.900	1300.000
GR	738.900	1370.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	520.000	850.000	1190.000	1700.000	1190.000	0.0	0.0	0.0	0.0

87480

X1	87225.000	13.000	1216.000	1225.000	1850.000	1850.000	1850.000	0.0	0.0	0.0
GR	752.100	1000.000	741.300	1052.000	739.300	1100.000	739.800	1200.000	739.700	1216.000
GR	736.500	1218.000	735.100	1220.000	736.500	1222.000	740.100	1225.000	741.000	1300.000
GR	742.700	1380.000	746.800	1400.000	752.100	1415.000	0.0	0.0	0.0	0.0
QT	5.000	480.000	780.000	1090.000	1580.000	1090.000	0.0	0.0	0.0	0.0

90845

X1	90090.000	12.000	1314.000	1338.000	2865.000	2865.000	2865.000	0.0	0.0	0.0
GR	754.600	1000.000	753.800	1100.000	753.200	1200.000	754.600	1300.000	755.300	1314.000
GR	753.900	1326.000	752.700	1330.000	752.700	1334.000	756.100	1338.000	755.600	1382.000
GR	761.300	1400.000	766.900	1435.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

90895

X1	90140.000	24.000	1396.500	1416.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	770.300	1000.000	755.200	1077.000	754.400	1177.000	753.800	1277.000	755.200	1377.000
GR	755.900	1391.000	756.800	1396.500	754.300	1397.500	753.300	1400.000	754.300	1402.700
GR	756.800	1403.500	756.800	1406.500	756.800	1409.500	754.300	1410.500	753.300	1413.000
GR	754.300	1415.500	756.800	1416.500	756.200	1459.000	761.900	1477.000	764.700	1495.000
GP	764.800	1500.000	766.700	1600.000	769.700	1700.000	771.900	1773.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	14.000	0.010	77.000	0.0	0.0	0.0

90930

RDND NCSR 1460 MXLCEL 760.3 ROELV 763.9

90966

X1	90211.000	0.0	0.0	0.0	71.000	71.000	71.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	760.300	763.800	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	770.300	0.0	1100.000	766.700	0.0	1200.000	764.500	0.0
BT	1300.000	763.800	0.0	1396.500	763.900	756.800	1397.500	763.900	759.300	1400.000
BT	763.900	760.300	1402.500	763.90						

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR = 01
 MODIFICATION = 50,51,52

T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.000600	0.0	0.0	0.	621.700	0.0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300

*SECNO 23810.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
23810.00	10.00	625.70	0.0	621.70	625.86	0.16	0.0	0.0	619.50
5800.	1930.	2415.	1455.	827.	558.	916.	0.	0.	620.70
0.0	2.33	4.33	1.59	0.055	0.035	0.055	0.0	615.70	1046.54
0.000605	23810.	23810.	23810.	0	0	5	0.0	494.11	1540.65

CCHV= 0.100 CEHV= 0.300

*SECNO 23910.000

3301 HV CHANGED MORE THAN HVINS

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

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

23910.00	7.99	625.29	625.29	0.0	627.47	2.18	0.17	0.61	632.90
5800.	0.	5800.	0.	0.	490.	0.	3.	1.	632.90
0.00	0.0	11.84	0.0	0.060	0.040	0.060	0.040	617.30	1289.89
0.015483	100.	100.	100.	20	13	0	0.0	115.89	1405.77

SPECIAL BRIDGE

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.000600	0.0	0.0	0.	623.700	0.0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 3

CCHV= 0.100 CEHV= 0.300

*SECNO 23810.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
23810.00	10.97	626.67	0.0	623.70	626.85	0.18	0.0	0.0	619.50
7500.	2424.	2891.	2185.	963.	621.	1219.	0.	0.	620.70
0.0	2.52	4.66	1.79	0.055	0.035	0.055	0.0	615.70	1040.42
0.000606	23810.	23810.	23810.	0	0	4	0.0	536.31	1576.73

CCHV= 0.100 CEHV= 0.300

*SECNO 23910.000

3301 HV CHANGED MORE THAN HVINS

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

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

23910.00	8.99	626.29	626.29	0.0	628.66	2.37	0.16	0.66	632.90
7500.	0.	7500.	0.	0.	607.	0.	4.	1.	632.90
0.00	0.0	12.36	0.0	0.060	0.040	0.060	0.040	617.30	1288.02
0.013170	100.	100.	100.	20	12	0	0.0	117.98	1406.00

SPECIAL BRIDGE

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50.51.52

T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.000600	0.0	0.0	0.	624.700	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 4

CCHV= 0.100 CEHV= 0.300

*SECNO 23810.000

SECNO	DEPTH	CWSEL	CRWS	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
23810.00	12.39	628.09	0.0	624.70	628.30	0.20	0.0	0.0	619.50
10500.	3257.	3659.	3583.	1172.	713.	1735.	0.	0.	620.70
0.0	2.78	5.13	2.07	0.055	0.035	0.055	0.0	615.70	1031.47
0.000611	23810.	23810.	23810.	0	0	4	0.0	625.29	1656.76

CCHV= 0.100 CEHV= 0.300

*SECNO 23910.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	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

3685 20 TRIALS ATTEMPTED WSEL, CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

23910.00	10.23	627.53	627.53	0.0	630.38	2.85	0.17	0.79	632.90
10500.	0.	10500.	0.	0.	776.	0.	5.	1.	632.90
0.00	0.0	13.54	0.0	0.060	0.040	0.060	0.040	617.30	1270.00
0.013983	100.	100.	100.	20	12	0	0.0	136.00	1406.00

SPECIAL BRIDGE

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

no station on this profile

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	23810.000	23810.00	0.0	0.0	3600.00	615.70	624.14	0.0	3.79	1056.33	1481.68	1585.10	0.0
	23810.000	23810.00	0.0	0.0	5800.00	615.70	625.70	0.0	4.33	1046.54	1540.65	2301.04	1.56
	23810.000	23810.00	0.0	0.0	7500.00	615.70	626.67	0.0	4.66	1040.42	1576.73	2803.05	0.97
	23810.000	23810.00	0.0	0.0	10500.00	615.70	628.09	0.0	5.13	1031.47	1656.76	3620.80	1.42
*	23910.000	100.00	0.0	0.0	3600.00	617.30	623.08	623.08	11.80	1294.04	1365.78	304.96	0.0
*	23910.000	100.00	0.0	0.0	5800.00	617.30	625.29	625.29	11.84	1209.89	1405.77	489.86	2.22
*	23910.000	100.00	0.0	0.0	7500.00	617.30	626.29	626.29	12.36	1288.02	1408.00	606.62	1.00
*	23910.000	100.00	0.0	0.0	10500.00	617.30	627.53	627.53	13.54	1270.00	1406.00	775.51	1.24
	23939.000	29.00	630.70	630.70	3600.00	617.30	623.26	0.0	11.32	1293.70	1365.96	318.03	0.0
	23939.000	29.00	630.70	630.70	5800.00	617.30	625.42	0.0	11.49	1289.65	1406.00	504.61	2.16
	23939.000	29.00	630.70	630.70	7500.00	617.30	626.42	0.0	12.01	1270.00	1406.00	624.23	1.00
	23939.000	29.00	630.70	630.70	10500.00	617.30	627.69	0.0	13.17	1270.00	1406.00	797.02	1.27
B	24039.000	100.00	0.0	0.0	3600.00	617.90	625.48	0.0	4.72	1061.75	1447.20	1235.58	0.0
	24039.000	100.00	0.0	0.0	5800.00	617.90	627.67	0.0	4.54	1047.98	1532.21	2189.49	2.19
	24039.000	100.00	0.0	0.0	7500.00	617.90	628.86	0.0	4.66	1040.46	1576.47	2799.25	1.19
	24039.000	100.00	0.0	0.0	10500.00	617.90	630.60	0.0	4.88	1029.46	1679.59	3824.55	1.74
C	26650.000	2611.00	0.0	0.0	3150.00	615.80	628.42	0.0	5.67	1104.31	1409.21	1036.80	0.0
	26650.000	2611.00	0.0	0.0	5400.00	615.80	629.93	0.0	6.64	1086.06	1415.20	1513.58	1.51
	26650.000	2611.00	0.0	0.0	7000.00	615.80	630.92	0.0	6.98	1072.54	1419.15	1849.53	0.99
	26650.000	2611.00	0.0	0.0	9800.00	615.80	632.44	0.0	7.44	1058.09	1425.20	2394.76	1.52
31492	31270.000	4620.00	0.0	0.0	3100.00	624.80	633.55	0.0	5.04	1347.58	1647.13	1111.29	0.0
	31270.000	4620.00	0.0	0.0	5150.00	624.80	635.25	0.0	5.62	1343.20	1800.00	1717.89	1.71
	31270.000	4620.00	0.0	0.0	6900.00	624.80	636.24	0.0	6.08	1340.66	1800.00	2170.59	0.99
	31270.000	4620.00	0.0	0.0	9600.00	624.80	637.61	0.0	6.51	1258.99	1800.00	2837.82	1.37
31542	31320.000	50.00	0.0	0.0	3100.00	624.80	633.53	0.0	5.97	1332.26	1672.85	961.40	0.0
	31320.000	50.00	0.0	0.0	5150.00	624.80	635.29	0.0	5.98	1287.03	1768.13	1659.77	1.75
	31320.000	50.00	0.0	0.0	6900.00	624.80	636.30	0.0	6.14	1098.09	1800.00	2198.10	1.01
	31320.000	50.00	0.0	0.0	9600.00	624.80	637.71	0.0	6.14	1071.57	1800.00	3144.71	1.41
31558	31336.000	16.00	630.20	629.20	3100.00	624.80	633.57	0.0	5.88	1331.19	1674.36	978.02	0.0
	31336.000	16.00	630.20	629.20	5150.00	624.80	635.39	0.0	5.81	1282.30	1776.12	1710.42	1.61
	31336.000	16.00											

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
<i>31,608</i> 31386.000	50.00	0.0	0.0	3100.00	621.80	<i>633.32</i> 633.32	633.32	10.10	1353.30	1578.59	522.64	0.0
31386.000	50.00	0.0	0.0	5150.00	626.80	635.14	0.0	9.33	1348.62	1435.54	992.28	1.81
<i>E</i> 31386.000	50.00	0.0	0.0	6900.00	626.80	636.16	0.0	9.62	1345.99	1800.00	1302.44	1.03
31386.000	50.00	0.0	0.0	9600.00	626.80	637.62	0.0	9.66	1342.25	1800.00	1885.59	1.46
<i>35,835</i> 35555.000	4169.00	0.0	0.0	3100.00	629.82	640.24	0.0	4.46	1225.17	1439.77	1065.51	0.0
35555.000	4169.00	0.0	0.0	5150.00	629.82	641.85	0.0	5.69	1208.86	1446.14	1428.81	1.61
<i>F</i> 35555.000	4169.00	0.0	0.0	6900.00	629.82	643.01	0.0	6.43	1191.65	1498.14	1720.40	1.17
35555.000	4169.00	0.0	0.0	9600.00	629.82	644.36	0.0	7.38	1000.00	1514.58	2182.77	1.35
<i>35,841</i> 35585.000	30.00	0.0	0.0	3100.00	627.10	640.27	0.0	4.00	1000.00	1506.00	1075.01	0.0
35585.000	30.00	0.0	0.0	5150.00	627.10	642.02	0.0	4.22	1000.00	1506.00	1935.97	1.75
35585.000	30.00	0.0	0.0	6900.00	627.10	643.28	0.0	4.33	1000.00	1506.00	2434.86	1.26
35585.000	30.00	0.0	0.0	9600.00	627.10	644.72	0.0	4.63	1000.00	1574.40	3196.34	1.44
35614.000	29.00	638.20	641.80	3100.00	627.10	640.27	0.0	4.00	1000.00	1506.00	1074.88	0.0
35614.000	29.00	638.20	641.80	5150.00	627.10	642.02	0.0	4.22	1000.00	1506.00	1836.33	1.75
35614.000	29.00	638.20	641.80	6900.00	627.10	643.34	0.0	4.27	1000.00	1506.00	2466.83	1.32
35614.000	29.00	638.20	641.80	9600.00	627.10	644.83	0.0	4.55	1000.00	1582.06	3262.27	1.49
<i>35,924</i> 35644.000	30.00	0.0	0.0	3100.00	629.60	640.31	0.0	4.24	1222.25	1440.91	1127.88	0.0
35644.000	30.00	0.0	0.0	5150.00	629.60	641.98	0.0	5.40	1205.31	1447.53	1512.86	1.67
<i>G</i> 35644.000	30.00	0.0	0.0	6900.00	629.60	643.25	0.0	6.02	1178.53	1504.91	1866.11	1.27
35644.000	30.00	0.0	0.0	9600.00	629.60	644.70	0.0	6.83	1000.00	1520.66	2413.16	1.45
38900.000	3256.00	0.0	0.0	3000.00	631.20	642.49	0.0	4.88	1000.00	1416.72	1165.71	0.0
38900.000	3256.00	0.0	0.0	5000.00	631.20	644.37	0.0	4.87	1000.00	1419.60	1954.54	1.88
<i>N</i> 38900.000	3256.00	0.0	0.0	6500.00	631.20	645.64	0.0	4.86	1000.00	1421.54	2487.52	1.27
38900.000	3256.00	0.0	0.0	9000.00	631.20	647.21	0.0	5.15	1000.00	1423.95	3153.77	1.58
<i>41,735</i> 41405.000	2505.00	0.0	0.0	3000.00	634.10	644.94	0.0	6.63	1022.52	1084.92	481.97	0.0
41405.000	2505.00	0.0	0.0	5000.00	634.10	646.48	0.0	9.42	1019.60	1088.14	582.58	1.53
<i>I</i> 41405.000	2505.00	0.0	0.0	6400.00	634.10	647.30	0.0	11.14	1018.04	1089.86	640.36	0.82
41405.000	2505.00	0.0	0.0	9000.00	634.10	648.33	0.0	14.27	1016.07	1092.03	716.95	1.03
<i>41,740</i> 41440.000	35.00	0.0	0.0	3000.00	634.40	644.98	0.0	8.75	1409.71	1477.21	444.77	0.0
41440.000	35.00	0.0	0.0	5000.00	634.40	646.78	0.0	8.61	1406.30	1489.25	580.55	1.80
41440.000	35.00	0.0	0.0	6400.00	634.40	647.98	0.0	9.34	1404.06	1497.16	685.08	1.19
41440.000	35.00	0.0	0.0	9000.00	634.40	650.09	0.0	9.99	1401.00	1511.27	900.71	2.12
<i>41,745</i> 41460.000	20.00	656.50	651.40	3000.00	634.40	645.00	0.0	6.73	1409.67	1477.33	445.93	0.0
41460.000	20.00	656.50										

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
48400.000	3450.00	0.0	0.0	2900.00	648.60	657.74	0.0	4.23	1106.70	1400.00	1209.26	0.0
48400.000	3450.00	0.0	0.0	4750.00	648.60	658.85	0.0	5.39	1098.51	1400.00	1538.54	1.11
48400.000	3450.00	0.0	0.0	6100.00	648.60	659.64	0.0	5.92	1090.86	1400.00	1779.16	0.79
48400.000	3450.00	0.0	0.0	8700.00	648.60	661.09	0.0	6.62	1076.68	1400.00	2241.17	1.46
49235.000	835.00	0.0	0.0	2900.00	648.80	658.32	0.0	6.20	1172.89	1263.89	537.33	0.0
49235.000	835.00	0.0	0.0	4750.00	648.80	659.56	0.0	8.47	1171.25	1276.04	661.40	1.24
49235.000	835.00	0.0	0.0	6100.00	648.80	660.32	0.0	9.81	1170.2	1280.45	743.26	0.76
49235.000	835.00	0.0	0.0	8700.00	648.80	661.57	0.0	11.93	1099.1	1297.69	925.92	1.25
49285.000	50.00	0.0	0.0	2900.00	650.50	658.41	0.0	6.67	1456.35	1614.51	542.23	0.0
49285.000	50.00	0.0	0.0	4750.00	650.50	659.84	0.0	8.42	1455.08	1623.44	722.52	1.44
49285.000	50.00	0.0	0.0	6100.00	650.50	660.84	0.0	9.14	1452.92	1629.59	879.38	0.99
49285.000	50.00	0.0	0.0	8700.00	650.50	662.60	0.0	9.98	1417.90	1643.48	1212.74	1.76
49314.000	29.00	688.30	680.50	2900.00	650.50	658.41	0.0	6.67	1456.35	1614.51	542.26	0.0
49314.000	29.00	688.30	680.50	4750.00	650.50	659.84	0.0	8.42	1455.08	1623.43	722.35	1.44
49314.000	29.00	688.30	680.50	6100.00	650.50	660.84	0.0	9.14	1452.91	1629.60	879.64	0.99
49314.000	29.00	688.30	680.50	8700.00	650.50	662.60	0.0	9.97	1417.52	1640.52	1214.15	1.76
49364.000	50.00	0.0	0.0	2900.00	652.20	657.70	657.70	12.57	1178.23	1223.94	230.65	0.0
49364.000	50.00	0.0	0.0	4750.00	652.20	660.06	660.06	13.33	1175.10	1259.25	387.40	2.36
49364.000	50.00	0.0	0.0	6100.00	652.20	661.22	661.22	14.11	1173.56	1265.96	489.76	1.16
49364.000	50.00	0.0	0.0	8700.00	652.20	662.95	662.95	15.55	1171.27	1275.95	659.81	1.73
51730.000	2366.00	0.0	0.0	2900.00	651.20	660.85	0.0	1.16	1000.00	1800.00	4449.06	0.0
51730.000	2366.00	0.0	0.0	4750.00	651.20	663.38	0.0	1.22	1000.00	1800.00	6468.63	2.52
51730.000	2366.00	0.0	0.0	6100.00	651.20	664.78	0.0	1.30	1000.00	1800.00	7593.23	1.41
51730.000	2366.00	0.0	0.0	8700.00	651.20	667.04	0.0	1.46	1000.00	1800.00	9397.77	2.26
51830.000	100.00	0.0	0.0	2900.00	651.60	660.65	0.0	4.50	1453.54	1568.05	644.79	0.0
51830.000	100.00	0.0	0.0	4750.00	651.60	663.12	0.0	5.06	1449.57	1573.28	938.02	2.46
51830.000	100.00	0.0	0.0	6100.00	651.60	664.48	0.0	5.49	1443.00	1576.00	1111.21	1.36
51830.000	100.00	0.0	0.0	8700.00	651.60	666.64	0.0	6.22	1443.00	1576.00	1399.24	2.17
51865.000	35.00	668.70	665.60	2900.00	651.60	660.67	0.0	4.49	1453.51	1568.08	646.54	0.0
51865.000	35.00	668.70	665.60	4750.00	651.60	663.14	0.0	5.05	1449.54	1573.32	940.41	2.47
51865.000	35.00	668.70	665.60	6100.00	651.60	664.50	0.0	5.48	1443.00	1576.00	1114.14	1.36
51865.000	35.00	668.70	665.60	8700.00	651.60	667.67	0.0	5.67	1443.00	1576.00	1535.43	3.17
51960.000	95.00	0.0	0.0	2900.00	651.70	661.03	0.0	1.25	1000.00	1800.00	4186.70	0.0
51960.000	95.00	0.0	0.0	4750.00	651.70	663.58	0.0	1.28	1000.00	1800.00	6228.89	2.55

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
52340 52185.000	100.00	0.0	0.0	2900.00	651.70	661.21	0.0	1.20	1000.00	1800.00	4338.26	0.0
52185.000	100.00	0.0	0.0	4750.00	651.70	663.84	0.0	1.23	1000.00	1800.00	6436.50	2.62
52185.000	100.00	0.0	0.0	6100.00	651.70	665.34	0.0	1.29	1000.00	1800.00	7634.75	1.50
52185.000	100.00	0.0	0.0	8700.00	651.70	669.03	0.0	1.28	1000.00	1800.00	10587.68	3.69
54560 54090.000	1905.00	0.0	0.0	2825.00	652.60	661.42	0.0	2.73	1000.00	1775.70	2215.53	0.0
54090.000	1905.00	0.0	0.0	4600.00	652.60	663.96	0.0	2.12	1000.00	1800.00	4245.63	2.55
54090.000	1905.00	0.0	0.0	6000.00	652.60	665.45	0.0	2.07	1000.00	1800.00	5433.07	1.48
54090.000	1905.00	0.0	0.0	8600.00	652.60	669.10	0.0	1.82	1000.00	1800.00	8352.04	3.65
54610 54140.000	50.00	0.0	0.0	2825.00	653.40	661.25	0.0	4.70	1400.00	1568.00	600.96	0.0
54140.000	50.00	0.0	0.0	4600.00	653.40	663.78	0.0	4.48	1400.00	1568.00	1026.04	2.53
54140.000	50.00	0.0	0.0	6000.00	653.40	665.24	0.0	4.72	1400.00	1568.00	1270.71	1.46
54140.000	50.00	0.0	0.0	8600.00	653.40	668.89	0.0	4.56	1400.00	1568.00	1884.53	3.65
54630 54160.000	20.00	671.20	670.10	2825.00	653.40	661.32	0.0	4.60	1400.00	1568.00	613.61	0.0
54160.000	20.00	671.20	670.10	4600.00	653.40	663.81	0.0	4.46	1400.00	1568.00	1031.40	2.49
54160.000	20.00	671.20	670.10	6000.00	653.40	665.26	0.0	4.71	1400.00	1568.00	1275.17	1.45
54160.000	20.00	671.20	670.10	8600.00	653.40	668.91	0.0	4.56	1400.00	1568.00	1885.78	3.64
54683 54210.000	50.00	0.0	0.0	2825.00	653.50	661.65	0.0	3.63	1000.00	1747.93	1707.90	0.0
54210.000	50.00	0.0	0.0	4600.00	653.50	664.13	0.0	2.52	1000.00	1800.00	3662.26	2.48
54210.000	50.00	0.0	0.0	6000.00	653.50	665.62	0.0	2.36	1000.00	1800.00	4854.05	1.49
54210.000	50.00	0.0	0.0	8600.00	653.50	669.24	0.0	1.98	1000.00	1800.00	7749.93	3.62
55227 56975.000	2765.00	0.0	0.0	2190.00	659.90	663.95	0.0	2.74	1012.91	1748.05	1534.71	0.0
56975.000	2765.00	0.0	0.0	3650.00	659.90	665.06	0.0	2.78	1007.07	1750.08	2354.99	1.11
56975.000	2765.00	0.0	0.0	4790.00	659.90	666.25	0.0	2.53	1000.80	1753.42	3244.43	1.19
56975.000	2765.00	0.0	0.0	6600.00	659.90	669.49	0.0	1.87	1000.00	1784.56	5738.85	3.24
60002 59450.000	2475.00	0.0	0.0	2190.00	663.40	667.64	666.91	5.11	1050.04	1349.59	856.93	0.0
59450.000	2475.00	0.0	0.0	3650.00	663.40	668.17	667.41	6.28	1047.76	1570.66	1126.25	0.52
59450.000	2475.00	0.0	0.0	4790.00	663.40	668.43	667.69	7.24	1046.63	1581.12	1254.40	0.26
59450.000	2475.00	0.0	0.0	6600.00	663.40	670.13	0.0	5.18	1039.25	1700.00	2307.40	1.70
616.62 611.100	1660.00	0.0	0.0	2190.00	666.10	670.92	0.0	3.66	1047.52	1572.84	1154.80	0.0
611.100	1660.00	0.0	0.0	3650.00	666.10	671.80	0.0	4.11	1043.66	1642.66	1644.75	0.88
611.100	1660.00	0.0	0.0	4790.00	666.10	672.38	0.0	4.37	1041.21	1700.00	2009.21	0.57
611.100	1660.00	0.0	0.0	6600.00	666.10	672.85	0.0	5.15	1039.17	1700.00	2320.17	0.47
63322 62775.000	1665.00	0.0	0.0	2150.00	668.80	674.07	0.0	5.54	1038.10	1400.00	730.24	0.0
62775.000	1665.00	0.0	0.0	3450.00								

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
6582*	65030.000	75.00	0.0	0.0	2100.00	670.50	676.36	676.36	10.96	1340.00	1391.30	191.65	0.0
*	65030.000	75.00	0.0	0.0	3450.00	670.50	677.87	677.87	12.60	1340.00	1397.00	273.77	1.51
*	65030.000	75.00	0.0	0.0	4500.00	670.50	678.80	678.80	13.75	1340.00	1397.00	327.19	0.94
*	65030.000	75.00	0.0	0.0	6400.00	670.50	680.33	680.33	15.46	1340.00	1397.00	413.98	1.52
6587*	65065.000	35.00	685.10	683.30	2100.00	670.50	676.76	0.0	9.90	1340.00	1391.81	212.21	0.0
*	65065.000	35.00	685.10	683.30	3450.00	670.50	678.85	0.0	10.46	1340.00	1397.00	329.88	2.09
*	65065.000	35.00	685.10	683.30	4500.00	670.50	680.21	0.0	11.05	1340.00	1397.00	407.42	1.36
*	65065.000	35.00	685.10	683.30	6400.00	670.50	682.30	0.0	12.16	1340.00	1397.00	526.50	2.09
6589*	65140.000	75.00	0.0	0.0	2100.00	672.70	678.47	677.78	5.38	1070.98	1500.00	868.64	0.0
*	65140.000	75.00	0.0	0.0	3450.00	672.70	680.73	0.0	3.57	1033.90	1500.00	1861.13	2.26
*	65140.000	75.00	0.0	0.0	4500.00	672.70	682.29	0.0	3.18	1008.15	1500.00	2633.25	1.56
*	65140.000	75.00	0.0	0.0	6400.00	672.70	684.81	0.0	2.92	1000.00	1500.00	3887.52	2.52
6589*	66.232	1092.00	0.0	0.0	1790.00	676.60	681.72	0.0	7.11	1081.65	1500.00	593.06	0.0
*	66.232	1092.00	0.0	0.0	2900.00	676.60	681.90	681.90	10.07	1078.70	1500.00	668.64	0.18
*	66.232	1092.00	0.0	0.0	3800.00	676.60	682.97	0.0	7.14	1061.10	1500.00	1130.25	1.07
*	66.232	1092.00	0.0	0.0	5400.00	676.60	685.18	0.0	4.82	1024.94	1500.00	2138.34	2.20
6589*	67325.000	1093.00	0.0	0.0	1790.00	680.50	684.08	0.0	2.52	1000.00	1402.60	1051.35	0.0
*	67325.000	1093.00	0.0	0.0	2900.00	680.50	685.00	0.0	3.02	1000.00	1405.66	1422.15	0.92
*	67325.000	1093.00	0.0	0.0	3800.00	680.50	685.32	0.0	3.62	1000.00	1406.75	1555.31	0.33
*	67325.000	1093.00	0.0	0.0	5400.00	680.50	686.37	0.0	4.03	1000.00	1410.21	1978.51	1.05
6589*	68540.000	1215.00	0.0	0.0	1720.00	680.80	684.88	0.0	1.92	1000.00	1530.09	1470.06	0.0
*	68540.000	1215.00	0.0	0.0	2800.00	680.80	685.82	0.0	2.28	1000.00	1539.65	1976.45	0.95
*	68540.000	1215.00	0.0	0.0	3720.00	680.80	686.33	0.0	2.63	1000.00	1544.85	2255.37	0.51
*	68540.000	1215.00	0.0	0.0	5200.00	680.80	687.35	0.0	2.92	1000.00	1555.04	2810.68	1.02
6589*	68840.000	300.00	0.0	0.0	1720.00	680.80	686.75	686.75	11.74	1400.00	1435.00	146.53	0.0
*	68840.000	300.00	0.0	0.0	2800.00	680.80	688.31	688.31	13.91	1400.00	1435.00	201.25	1.56
*	68840.000	300.00	0.0	0.0	3720.00	680.80	690.66	690.66	8.79	1000.00	1539.34	844.35	2.34
*	68840.000	300.00	0.0	0.0	5200.00	680.80	691.20	691.20	9.52	1000.00	1637.69	1169.05	0.54
6589*	68861.000	21.00	688.70	688.60	1720.00	680.80	687.50	0.0	9.94	1400.00	1435.00	172.97	0.0
*	68861.000	21.00	688.70	688.60	2800.00	680.80	691.02	0.0	5.59	1000.00	1614.62	1053.51	3.51
*	68861.000	21.00	688.70	688.60	3720.00	680.80	690.77	0.0	8.32	1000.00	1568.59	909.12	-0.25
*	68861.000	21.00	688.70	688.60	5200.00	680.80	691.30	0.0	9.08	1000.00	1650.49	1235.02	0.53
6589*	69161.000	300.00	0.0	0.0	1720.00	682.80	689.25						

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP	
70107	68677.000	54.00	693.80	689.90	1720.00	681.90	689.30	0.0	0.83	982.85	1640.92	2458.68	0.0
	68677.000	54.00	693.80	689.90	2800.00	681.90	694.90	0.0	0.44	952.19	1751.59	6578.76	5.60
*	69677.000	54.00	693.80	689.90	3720.00	681.90	695.41	0.0	0.54	949.40	1755.44	6987.57	0.51
	69677.000	54.00	693.80	689.90	5200.00	681.90	696.04	0.0	0.70	945.94	1760.24	7500.84	0.63
70157	69727.000	50.00	0.0	0.0	1720.00	683.30	689.29	0.0	1.86	1046.50	1654.52	1718.50	0.0
	69727.000	50.00	0.0	0.0	2800.00	683.30	694.90	0.0	0.84	1015.86	1791.11	5616.95	5.61
	69727.000	50.00	0.0	0.0	3720.00	683.30	695.41	0.0	1.04	1013.08	1800.00	6014.07	0.51
	69727.000	50.00	0.0	0.0	5200.00	683.30	696.04	0.0	1.34	1009.64	1800.00	6511.40	0.63
* 73475.000	3748.00	0.0	0.0	1590.00	691.10	696.82	696.82	8.38	1000.00	1637.66	470.81	0.0	
* 73475.000	3748.00	0.0	0.0	2600.00	691.10	697.15	697.15	9.58	1000.00	1640.80	643.36	0.33	
* 73475.000	3748.00	0.0	0.0	3400.00	691.10	697.35	697.35	10.37	1000.00	1642.66	754.30	0.20	
* 73475.000	3748.00	0.0	0.0	4900.00	691.10	697.65	697.65	11.52	1000.00	1645.54	933.63	0.30	
75555.000	2080.00	0.0	0.0	1500.00	694.60	702.66	0.0	4.37	1169.88	1442.78	589.24	0.0	
75555.000	2080.00	0.0	0.0	2500.00	694.60	703.69	0.0	5.00	1134.79	1443.99	885.52	1.03	
75555.000	2080.00	0.0	0.0	3300.00	694.60	704.32	0.0	5.38	1112.74	1444.75	1090.54	0.63	
75555.000	2080.00	0.0	0.0	4700.00	694.60	705.25	0.0	5.87	1092.22	1445.85	1408.67	0.93	
75630.000	75.00	0.0	0.0	1500.00	695.90	702.62	0.0	5.59	1525.98	1589.18	268.11	0.0	
75630.000	75.00	0.0	0.0	2500.00	695.90	703.36	0.0	7.91	1524.30	1590.20	316.04	0.75	
75630.000	75.00	0.0	0.0	3300.00	695.90	703.67	0.0	9.80	1523.59	1590.63	336.90	0.31	
* 75630.000	75.00	0.0	0.0	4700.00	695.90	704.00	704.00	13.10	1522.86	1591.07	358.64	0.33	
75721.000	91.00	710.70	708.80	1500.00	695.90	702.64	0.0	5.57	1525.94	1589.20	269.07	0.0	
75721.000	91.00	710.70	708.80	2500.00	695.90	703.42	0.0	7.81	1524.16	1590.28	320.04	0.79	
75721.000	91.00	710.70	708.80	3300.00	695.90	703.80	0.0	9.56	1523.30	1590.80	345.31	0.38	
75721.000	91.00	710.70	708.80	4700.00	695.90	704.38	0.0	12.22	1522.00	1591.59	384.75	0.58	
* 75.746	25.00	0.0	0.0	1500.00	696.90	703.26	703.26	8.99	1291.47	1440.74	187.16	0.0	
* 75.746	25.00	0.0	0.0	2500.00	696.90	704.47	704.47	9.57	1262.61	1442.18	386.46	1.21	
* 75.746	25.00	0.0	0.0	3300.00	696.90	704.99	704.99	10.55	1250.32	1442.79	482.42	0.52	
* 75.746	25.00	0.0	0.0	4700.00	696.90	705.75	705.75	11.76	1232.05	1443.71	637.47	0.77	
* 75.771	25.00	0.0	0.0	1500.00	697.20	703.55	703.55	9.00	1291.57	1440.73	186.50	0.0	
* 75.771	25.00	0.0	0.0	2500.00	697.20	704.75	704.75	9.63	1263.03	1442.16	383.26	1.20	
* 75.771	25.00	0.0	0.0	3300.00	697.20	705.33	705.33	10.38	1249.21	1442.85	491.43	0.58	
* 75.771	25.00	0.0	0.0	4700.00	697.20	706.11	706.11	11.57	1230.72	1443.77	649.40	0.78	
* 75796.000	25.00	0.0	0.0	1500.00	697.50	703.85	703.85	9.01	1291.65	1440.73	186.03	0.0	
* 75796.000	25.00	0.0	0.0	2500.00	697.50	705.06	705.06	9.60	1				

81630
AF

83470

83770

83771

84091
AF

84630
AH

87980
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90845
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90845

90845

91016
AF

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
81000.000	1600.00	0.0	0.0	990.00	710.70	717.51	0.0	7.19	1133.02	1280.48	240.55	0.0
81000.000	1600.00	0.0	0.0	1600.00	710.70	718.13	717.93	8.73	1112.50	1285.40	339.14	0.62
81000.000	1600.00	0.0	0.0	2200.00	710.70	718.58	718.49	9.74	1106.22	1289.02	419.99	0.45
81000.000	1600.00	0.0	0.0	3170.00	710.70	719.15	718.97	11.09	1100.54	1292.39	526.49	0.57
82840.000	1840.00	0.0	0.0	920.00	715.50	724.40	0.0	5.66	1073.07	1311.77	303.96	0.0
82840.000	1840.00	0.0	0.0	1500.00	715.50	725.27	0.0	5.73	1068.45	1328.74	519.74	0.87
82840.000	1840.00	0.0	0.0	2100.00	715.50	725.91	0.0	5.98	1064.99	1341.47	694.04	0.64
82840.000	1840.00	0.0	0.0	2900.00	715.50	726.70	0.0	6.14	1060.80	1356.88	918.97	0.79
83140.000	300.00	0.0	0.0	920.00	717.70	725.18	0.0	5.37	1400.00	1427.00	171.35	0.0
83140.000	300.00	0.0	0.0	1500.00	717.70	725.83	0.0	7.93	1400.00	1427.00	189.05	0.65
83140.000	300.00	0.0	0.0	2100.00	717.70	726.09	0.0	10.71	1400.00	1427.00	195.99	0.26
83140.000	300.00	0.0	0.0	2900.00	717.70	725.92	725.92	15.15	1400.00	1427.00	191.43	-0.17
83161.000	21.00	729.90	728.10	920.00	717.70	725.18	0.0	5.37	1400.00	1427.00	171.37	0.0
83161.000	21.00	729.90	728.10	1500.00	717.70	725.83	0.0	7.94	1400.00	1427.00	188.95	0.65
83161.000	21.00	729.90	728.10	2100.00	717.70	726.09	0.0	10.71	1400.00	1427.00	196.03	0.26
83161.000	21.00	729.90	728.10	2900.00	717.70	725.93	0.0	15.13	1400.00	1427.00	191.72	-0.16
83461.000	300.00	0.0	0.0	920.00	719.90	727.01	727.01	11.93	1251.35	1270.81	77.15	0.0
83461.000	300.00	0.0	0.0	1500.00	719.90	728.97	728.97	8.35	1072.18	1315.04	343.91	1.96
83461.000	300.00	0.0	0.0	2100.00	719.90	729.49	0.0	8.79	1069.40	1325.23	473.54	0.52
83461.000	300.00	0.0	0.0	2900.00	719.90	731.00	0.0	6.36	1061.32	1354.95	890.03	1.51
85375.000	1914.00	0.0	0.0	750.00	727.80	733.44	0.0	2.41	1043.55	1306.36	585.05	0.0
85375.000	1914.00	0.0	0.0	1220.00	727.80	733.89	0.0	3.15	1035.43	1311.64	707.02	0.45
85375.000	1914.00	0.0	0.0	1650.00	727.80	734.43	0.0	3.40	1029.33	1317.95	860.42	0.54
85375.000	1914.00	0.0	0.0	2500.00	727.80	734.81	0.0	4.48	1028.30	1322.25	967.69	0.38
87225.000	1850.00	0.0	0.0	520.00	735.10	740.47	740.47	7.32	1071.79	1256.26	156.55	0.0
87225.000	1850.00	0.0	0.0	850.00	735.10	740.80	740.80	8.44	1064.02	1283.24	221.94	0.32
87225.000	1850.00	0.0	0.0	1190.00	735.10	741.07	741.07	9.13	1057.54	1303.24	284.96	0.27
87225.000	1850.00	0.0	0.0	1700.00	735.10	741.36	741.36	10.11	1051.71	1316.93	359.37	0.29
90090.000	2865.00	0.0	0.0	480.00	752.70	754.84	0.0	2.35	1000.00	1336.52	315.45	0.0
90090.000	2865.00	0.0	0.0	780.00	752.70	755.23	0.0	2.46	1000.00	1336.99	444.81	0.39
90090.000	2865.00	0.0	0.0	1090.00	752.70	755.56	0.0	2.75	1000.00	1337.37	553	

CAUTION	SECNO=23910.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=23910.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=23910.000</		

CAUTION	SECNO=68861.000	PROFILE= 1	20 TRIALS OF EG NOT ENOUGH
CAUTION	SECNO=69677.000	PROFILE= 3	HYDRAULIC JUMP D.S.
CAUTION	SECNO=73475.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=73475.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=73475.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=73475.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=73475.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=73475.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=73475.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=73475.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=73475.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=73475.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=73475.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=73475.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=75630.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=75630.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=75630.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.746	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.746	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.746	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.746	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.746	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.746	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.746	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.746	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.746	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.746	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.746	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.746	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.771	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.771	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.771	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.771	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.771	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.771	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.771	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.771	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 75.771	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 75.771	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 75.771	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=75796.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=75796.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=75796.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=75796.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=75796.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=75796.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=75796.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=75796.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=75796.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=75796.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=75796.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=83140.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=83140.000	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=83461.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=83461.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=83461.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=83461.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=83461.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=83461.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=87225.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=87225.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=87225.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=87225.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=87225.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=87225.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=87225.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=87225.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=87225.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=87225.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=87225.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=87225.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10f	2f	0.2f
23810.000	0.	-2.5	-1.0	1.4
23910.000	100.	-3.2	-1.0	1.2
23939.000	129.	-3.2	-1.0	1.3
24039.000	229.	-3.4	-1.2	1.7
26650.000	2840.	-2.5	-1.0	1.5
31270.000	7460.	-2.7	-1.0	1.4
31320.000	7510.	-2.8	-1.0	1.4
31336.000	7526.	-2.8	-1.0	1.4
31386.000	7576.	-2.8	-1.0	1.5
35555.000	11745.	-2.8	-1.2	1.4
35585.000	11775.	-3.0	-1.3	1.4
35614.000	11804.	-3.1	-1.3	1.5
35644.000	11834.	-2.9	-1.3	1.4
38900.000	15090.	-3.1	-1.3	1.6
41405.000	17595.	-2.4	-0.8	1.0
41440.000	17630.	-3.0	-1.2	2.1
41460.000	17650.	-3.0	-1.2	2.1
41495.000	17685.	-2.8	-1.1	1.8
44950.000	21140.	-3.3	-1.2	2.0
48400.000	24590.	-1.9	-0.8	1.5
49235.000	25425.	-2.0	-0.8	1.2
49285.000	25475.	-2.4	-1.0	1.8
49314.000	25504.	-2.4	-1.0	1.8
49364.000	25554.	-3.5	-1.2	1.7
51730.000	27920.	-3.9	-1.4	2.3
51830.000	28020.	-3.8	-1.4	2.2
51865.000	28055.	-3.8	-1.4	3.2
51960.000	28150.	-4.0	-1.4	3.2
52055.000	28245.	-3.8	-1.3	3.1
52085.000	28275.	-3.8	-1.4	3.6
52185.000	28375.	-4.1	-1.5	3.7
54090.000	30280.	-4.0	-1.5	3.6
54140.000	30330.	-4.0	-1.5	3.7
54160.000	30350.	-3.9	-1.5	3.6
54210.000	30400.	-4.0	-1.5	3.6
56975.000	33165.	-2.3	-1.2	3.2
59450.000	35640.	-0.8	-0.3	1.7
611.160	37300.	-1.5	-0.6	0.5
62775.000	38965.	-1.3	-0.5	0.9
638.650	40055.	-1.5	-0.6	0.9
64955.000	41145.	-1.7	-0.7	1.1
65030.000	41220.	-2.4	-0.9	1.5
65065.000	41255.	-3.5	-1.4	2.1
65140.000	41330.	-3.8	-1.6	2.5
66.232	42422.	-1.3	-1.1	2.2
67325.000	43515.	-1.2	-0.3	1.0
68540.000	44730.	-1.5	-0.5	1.0
68840.000	45030.	-3.9	-2.3	0.5
68861.000	45051.	-3.3	0.2	0.5
69161.000	45351.	-2.4	-0.2	0.6

69573.000	45763.	-2.4	-0.2	0.6
69623.000	45813.	-2.4	-0.3	0.6
69677.000	45867.	-6.1	-0.5	0.6
69727.000	45917.	-6.1	-0.5	0.6
73475.000	49665.	-0.5	-0.2	0.3
75555.000	51745.	-1.7	-0.6	0.9
75630.000	51820.	-1.1	-0.3	0.3
75721.000	51911.	-1.2	-0.4	0.6
75.746	51936.	-1.7	-0.5	0.8
75.771	51961.	-1.8	-0.6	0.8
75796.000	51986.	-1.8	-0.6	0.8
77800.000	53990.	-1.5	-0.6	0.9
79.400	55590.	-1.3	-0.5	0.8
81000.000	57190.	-1.1	-0.5	0.6
82840.000	59030.	-1.5	-0.6	0.8
83140.000	59330.	-0.9	-0.3	-0.2
83161.000	59351.	-0.9	-0.3	-0.2
83461.000	59651.	-2.5	-0.5	1.5
85375.000	61565.	-1.0	-0.5	0.4
87225.000	63415.	-0.6	-0.3	0.3
90090.000	66280.	-0.7	-0.3	0.4
90140.000	66330.	-0.7	-0.3	0.4
90211.000	66401.	-0.7	-0.3	0.4
90261.000	66451.	-0.6	-0.3	0.4

WEIGHTED AVG FOR REACH -2.3 -0.8 1.4

FHF FOR THE REACH = 025 WITH 69.1% OF THE REACH WITHIN 1.0 FEET
 ZONE FOR THE REACH = A 5

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA 10C	DATA 1C	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
1	0.						
	179.	623.2	626.3	-3.1	-3.1	030	100.
	100.					SEC. 23810.000	
	129.					SEC. 23910.000	
	229.					SEC. 23939.000	
	229.					SEC. 24039.000	
2	358.	625.5	628.9	-3.4	-3.3	035	100.
3	537.	625.7	629.0	-3.3	-3.3	035	100.
4	716.	625.9	629.2	-3.3	-3.3	035	100.
5	895.	626.1	629.3	-3.2	-3.3	035	100.
6	1074.	626.3	629.5	-3.1	-3.2	030	100.
7	1253.	626.5	629.6	-3.1	-3.2	030	100.
8	1432.	626.7	629.7	-3.0	-3.2	030	100.
9	1611.	626.9	629.9	-2.9	-3.1	030	100.
10	1790.	627.1	630.0	-2.9	-3.1	030	100.
11	1969.	627.3	630.2	-2.8	-3.1	030	100.
12	2148.	627.5	630.3	-2.8	-3.1	030	100.
13	2327.	627.7	630.4	-2.7	-3.0	030	100.
14	2506.	627.9	630.6	-2.6	-3.0	030	100.
15	2685.	628.1	630.7	-2.6	-3.0	030	100.
	2840.					SEC. 26650.000	
16	2864.	628.3	630.9	-2.5	-3.0	030	100.
17	3043.	628.5	631.1	-2.5	-2.9	030	100.
18	3222.	628.7	631.3	-2.5	-2.9	030	100.
19	3401.	628.9	631.5	-2.5	-2.9	030	100.
20	3580.	629.1	631.7	-2.5	-2.9	030	100.

21	3759.	629.3	631.9	-2.5	-2.9	030	100.
22	3938.	629.5	632.1	-2.5	-2.8	030	100.
23	4117.	629.7	632.3	-2.6	-2.8	030	100.
24	4296.	629.9	632.5	-2.6	-2.8	030	100.
25	4475.	630.1	632.7	-2.6	-2.8	030	100.
26	4654.	630.3	632.9	-2.6	-2.8	030	100.
27	4833.	630.5	633.1	-2.6	-2.8	030	100.
28	5012.	630.7	633.3	-2.6	-2.8	030	100.
29	5191.	630.9	633.5	-2.6	-2.8	030	100.
30	5370.	631.1	633.7	-2.6	-2.8	030	100.
31	5549.	631.3	633.9	-2.6	-2.8	030	100.
32	5728.	631.5	634.1	-2.6	-2.8	030	100.
33	5907.	631.7	634.3	-2.6	-2.8	030	100.
34	6086.	631.9	634.5	-2.6	-2.8	030	100.
35	6265.	632.1	634.7	-2.6	-2.8	030	100.
36	6444.	632.3	635.0	-2.7	-2.7	025	100.
37	6623.	632.5	635.2	-2.7	-2.7	025	100.
38	6802.	632.7	635.4	-2.7	-2.7	025	100.
39	6981.	632.9	635.6	-2.7	-2.7	025	100.
40	7160.	633.1	635.8	-2.7	-2.7	025	100.
41	7339.	633.3	636.0	-2.7	-2.7	025	100.
	7460.						
	7510.						
42	7518.	633.5	636.3	-2.8	-2.7	025	100.
	7526.						
	7576.						
43	7697.	633.4	636.3	-2.8	-2.7	025	100.
44	7876.	633.7	636.5	-2.8	-2.7	025	100.
45	8055.	634.0	636.8	-2.8	-2.7	025	100.
46	8234.	634.3	637.1	-2.8	-2.7	025	100.
47	8413.	634.6	637.4	-2.8	-2.8	030	100.
48	8592.	634.9	637.7	-2.8	-2.8	030	100.
49	8771.	635.2	638.0	-2.8	-2.8	030	100.
50	8950.	635.5	638.3	-2.8	-2.8	030	100.
51	9129.	635.7	638.6	-2.8	-2.8	030	100.
52	9308.	636.0	638.9	-2.8	-2.8	030	100.
53	9487.	636.3	639.2	-2.8	-2.8	030	100.
54	9666.	636.6	639.4	-2.8	-2.8	030	100.
55	9845.	636.9	639.7	-2.6	-2.8	030	100.
56	10024.	637.2	640.0	-2.8	-2.8	030	100.
57	10203.	637.5	640.3	-2.8	-2.8	030	100.
58	10382.	637.8	640.6	-2.8	-2.8	030	100.
59	10561.	638.1	640.9	-2.8	-2.8	030	100.
60	10740.	638.4	641.2	-2.8	-2.8	030	100.
61	10919.	638.7	641.5	-2.8	-2.8	030	100.
62	11098.	639.0	641.8	-2.8	-2.8	030	100.
63	11277.	639.3	642.1	-2.8	-2.8	030	100.
64	11456.	639.6	642.4	-2.8	-2.8	030	100.

SEC. 31270.000

SEC. 31320.000

SEC. 31336.000

SEC. 31386.000

24	4296.	629.9	632.5	-2.6	-2.8	030	100.
25	4475.	630.1	632.7	-2.6	-2.8	030	100.
26	4654.	630.3	632.9	-2.6	-2.8	030	100.
27	4833.	630.5	633.1	-2.6	-2.8	030	100.
28	5012.	630.7	633.3	-2.6	-2.8	030	100.
29	5191.	630.9	633.5	-2.6	-2.8	030	100.
30	5370.	631.1	633.7	-2.6	-2.8	030	100.
31	5549.	631.3	633.9	-2.6	-2.8	030	100.
32	5728.	631.5	634.1	-2.6	-2.8	030	100.
33	5907.	631.7	634.4	-2.6	-2.8	030	100.
34	6086.	631.9	634.6	-2.6	-2.8	030	100.
35	6265.	632.1	634.8	-2.6	-2.8	030	100.
36	6444.	632.3	635.0	-2.7	-2.7	025	100.
37	6623.	632.5	635.2	-2.7	-2.7	025	100.
38	6802.	632.7	635.4	-2.7	-2.7	025	100.
39	6981.	632.9	635.6	-2.7	-2.7	025	100.
40	7160.	633.1	635.8	-2.7	-2.7	025	100.
41	7339.	633.3	636.0	-2.7	-2.7	025	100.
	7460.						
	7510.						
42	7518.	633.5	636.3	-2.8	-2.7	025	100.
	7526.						
	7576.						
43	7697.	633.4	636.3	-2.8	-2.7	025	100.
44	7876.	633.7	636.5	-2.8	-2.7	025	100.
45	8055.	634.0	636.8	-2.8	-2.7	025	100.
46	8234.	634.3	637.1	-2.8	-2.7	025	100.
47	8413.	634.6	637.4	-2.8	-2.8	030	100.
48	8592.	634.9	637.7	-2.8	-2.8	030	100.
49	8771.	635.2	638.0	-2.8	-2.8	030	100.
50	8950.	635.5	638.3	-2.8	-2.8	030	100.
51	9129.	635.7	638.6	-2.8	-2.8	030	100.
52	9308.	636.0	638.9	-2.8	-2.8	030	100.
53	9487.	636.3	639.2	-2.8	-2.8	030	100.
54	9666.	636.6	639.4	-2.8	-2.8	030	100.
55	9845.	636.9	639.7	-2.8	-2.8	030	100.
56	10024.	637.2	640.0	-2.8	-2.8	030	100.
57	10203.	637.5	640.3	-2.8	-2.8	030	100.
58	10382.	637.8	640.6	-2.8	-2.8	030	100.
59	10561.	638.1	640.9	-2.8	-2.8	030	100.
60	10740.	638.4	641.2	-2.8	-2.8	030	100.
61	10919.	638.7	641.5	-2.8	-2.8	030	100.
62	11098.	639.0	641.8	-2.8	-2.8	030	100.
63	11277.	639.3	642.1	-2.8	-2.8	030	100.
64	11456.	639.6	642.4	-2.8	-2.8	030	100.
65	11635.	639.9	642.7	-2.8	-2.8	030	100.
	11745.						
	11775.						
	11804.						
66	11814.	640.3	643.3	-3.0	-2.8	030	100.
	11834.						
67	11993.	640.4	643.3	-3.0	-2.8	030	100.
68	12172.	640.5	643.4	-3.0	-2.8	030	100.
69	12351.	640.6	643.6	-3.0	-2.8	030	100.
70	12530.	640.7	643.7	-3.0	-2.8	030	100.
71	12709.	640.8	643.8	-3.0	-2.8	030	100.
72	12888.	641.0	644.0	-3.0	-2.8	030	100.
73	13067.	641.1	644.1	-3.0	-2.8	030	100.
74	13246.	641.2	644.2	-3.0	-2.8	030	100.
75	13425.	641.3	644.4	-3.0	-2.8	030	100.
76	13604.	641.4	644.5	-3.0	-2.8	030	100.

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SEC. 31320.000

SEC. 31336.000

SEC. 31386.000

SEC. 35555.000

SEC. 35585.000

SEC. 35614.000

SEC. 35644.000

77	13783.	641.6	644.6	-3.1	-2.8	030	100.
78	13962.	641.7	644.7	-3.1	-2.8	030	100.
79	14141.	641.8	644.9	-3.1	-2.8	030	100.
80	14320.	641.9	645.0	-3.1	-2.8	030	100.
81	14499.	642.0	645.1	-3.1	-2.8	030	100.
82	14678.	642.2	645.3	-3.1	-2.8	030	100.
83	14857.	642.3	645.4	-3.1	-2.8	030	100.
84	15036.	642.4	645.5	-3.1	-2.8	030	100.
	15090.				SEC.	38900.000	
85	15215.	642.5	645.7	-3.1	-2.8	030	100.
86	15394.	642.7	645.8	-3.1	-2.8	030	100.
87	15573.	642.9	645.9	-3.0	-2.8	030	100.
88	15752.	643.0	646.0	-3.0	-2.8	030	100.
89	15931.	643.2	646.1	-2.9	-2.8	030	100.
90	16110.	643.4	646.3	-2.9	-2.8	030	100.
91	16289.	643.6	646.4	-2.8	-2.8	030	100.
92	16468.	643.8	646.5	-2.7	-2.8	030	100.
93	16647.	643.9	646.6	-2.7	-2.8	030	100.
94	16826.	644.1	646.7	-2.6	-2.8	030	100.
95	17005.	644.3	646.8	-2.6	-2.8	030	100.
96	17184.	644.5	647.0	-2.5	-2.8	030	100.
97	17363.	644.6	647.1	-2.5	-2.8	030	100.
98	17542.	644.8	647.2	-2.4	-2.8	030	100.
	17595.				SEC.	41405.000	
	17630.				SEC.	41440.000	
	17650.				SEC.	41460.000	
	17685.				SEC.	41495.000	
99	17721.	645.1	647.9	-2.8	-2.8	030	100.
100	17900.	645.4	648.1	-2.8	-2.8	030	100.
101	18079.	645.7	648.5	-2.8	-2.8	030	100.
102	18258.	646.1	648.9	-2.8	-2.8	030	100.
103	18437.	646.5	649.3	-2.9	-2.8	030	100.
104	18616.	646.9	649.7	-2.9	-2.8	030	100.
105	18795.	647.2	650.1	-2.9	-2.8	030	100.
106	18974.	647.6	650.5	-2.9	-2.8	030	100.
107	19153.	648.0	650.9	-3.0	-2.8	030	100.
108	19332.	648.4	651.3	-3.0	-2.8	030	100.
109	19511.	648.7	651.7	-3.0	-2.8	030	100.
110	19690.	649.1	652.1	-3.0	-2.8	030	100.
111	19869.	649.5	652.5	-3.1	-2.8	030	100.
112	20048.	649.8	652.9	-3.1	-2.8	030	100.
113	20227.	650.2	653.3	-3.1	-2.8	030	100.
114	20406.	650.6	653.7	-3.1	-2.8	030	100.
115	20585.	651.0	654.1	-3.2	-2.8	030	100.
116	20764.	651.3	654.5	-3.2	-2.8	030	100.
117	20943.	651.7	654.9	-3.2	-2.8	030	100.
118	21122.	652.1	655.3	-3.2	-2.9	030	100.
	21140.				SEC.	44950.000	
119	21301.	652.4	655.6	-3.2	-2.9	030	100.
120	21480.	652.7	655.9	-3.2	-2.9	030	100.
121	21659.	653.0	656.1	-3.1	-2.9	030	100.
122	21838.	653.3	656.3	-3.0	-2.9	030	100.
123	22017.	653.6	656.5	-3.0	-2.9	030	100.
124	22196.	653.8	656.7	-2.9	-2.9	030	100.
125	22375.	654.1	656.9	-2.8	-2.9	030	100.
126	22554.	654.4	657.1	-2.7	-2.9	030	100.
127	22733.	654.7	657.3	-2.7	-2.9	030	100.
128	22912.	655.0	657.6	-2.6	-2.9	030	100.
129	23091.	655.2	657.8	-2.5	-2.9	030	100.
130	23270.	655.5	658.0	-2.5	-2.8	030	100.
131	23449.	655.8	658.2	-2.4	-2.8	030	100.
132	23628.	656.1	658.4	-2.3	-2.8	030	100.
133	23807.	656.4	658.6	-2.2	-2.8	030	100.
134	23986.	656.7	658.8	-2.2	-2.8	030	100.
135	24165.	656.9	659.0	-2.1	-2.8	030	100.
136	24344.	657.2	659.2	-2.0	-2.8	030	100.

137	24523.	657.5	659.5	-2.0	-2.8	030	100.
	24590.				SEC.	48400.000	
138	24702.	657.7	659.6	-1.9	-2.8	030	100.
139	24881.	657.9	659.8	-1.9	-2.8	030	100.
140	25060.	658.0	659.9	-1.9	-2.8	030	100.
141	25239.	658.1	660.1	-2.0	-2.8	030	100.
142	25410.	658.3	660.2	-2.0	-2.8	030	100.
	25425.				SEC.	49235.000	
	25475.				SEC.	49285.000	
	25504.				SEC.	49314.000	
	25554.				SEC.	49364.000	
143	25597.	657.7	661.3	-3.5	-2.8	030	100.
144	25776.	657.3	661.4	-3.5	-2.8	030	100.
145	25955.	658.1	661.7	-3.6	-2.8	030	100.
146	26134.	658.4	662.0	-3.6	-2.8	030	100.
147	26313.	658.6	662.2	-3.6	-2.8	030	100.
148	26492.	658.8	662.5	-3.7	-2.8	030	100.
149	26671.	659.1	662.8	-3.7	-2.8	030	100.
150	26850.	659.3	663.0	-3.7	-2.8	030	100.
151	27029.	659.5	663.3	-3.8	-2.8	030	100.
152	27208.	659.8	663.6	-3.8	-2.8	030	100.
153	27387.	660.0	663.8	-3.8	-2.8	030	100.
154	27566.	660.3	664.1	-3.9	-2.9	030	100.
155	27745.	660.5	664.4	-3.9	-2.9	030	99.
	27920.				SEC.	51730.000	
156	27924.	660.7	664.6	-3.9	-2.9	030	99.
	28020.				SEC.	51830.000	
	28055.				SEC.	51865.000	
157	28103.	660.8	664.6	-3.9	-2.9	030	99.
	28150.				SEC.	51960.000	
	28245.				SEC.	52055.000	
	28275.				SEC.	52085.000	
158	28282.	660.8	664.6	-3.8	-2.9	030	99.
	28375.				SEC.	52185.000	
159	28461.	661.0	665.0	-4.0	-2.9	030	99.
160	28640.	661.2	665.3	-4.1	-2.9	030	99.
161	28819.	661.3	665.4	-4.1	-2.9	030	98.
162	28998.	661.3	665.4	-4.1	-2.9	030	97.
163	29177.	661.3	665.4	-4.1	-2.9	030	96.
164	29356.	661.3	665.4	-4.1	-2.9	030	95.
165	29535.	661.3	665.4	-4.1	-2.9	030	95.
166	29714.	661.3	665.4	-4.1	-2.9	030	94.
167	29893.	661.4	665.4	-4.1	-2.9	030	93.
168	30072.	661.4	665.4	-4.0	-3.0	030	92.
169	30251.	661.4	665.4	-4.0	-3.0	030	92.
	30280.				SEC.	54090.000	
	30330.				SEC.	54140.000	
	30350.				SEC.	54160.000	
	30400.				SEC.	54210.000	
170	30430.	661.7	665.6	-4.0	-3.0	030	91.
171	30609.	661.7	665.6	-3.9	-3.0	030	91.
172	30788.	661.9	665.7	-3.8	-3.0	030	91.
173	30967.	662.0	665.7	-3.7	-3.0	030	91.
174	31146.	662.2	665.8	-3.6	-3.0	030	91.
175	31325.	662.3	665.8	-3.5	-3.0	030	91.
176	31504.	662.5	665.9	-3.4	-3.0	030	91.
177	31683.	662.6	665.9	-3.3	-3.0	030	92.
178	31862.	662.8	665.9	-3.1	-3.0	030	91.
179	32041.	662.9	666.0	-3.0	-3.0	030	91.
180	32220.	663.1	666.0	-2.9	-3.0	030	91.
181	32399.	663.2	666.1	-2.8	-3.0	030	92.
182	32578.	663.4	666.1	-2.7	-3.0	030	92.
183	32757.	663.5	666.1	-2.6	-3.0	030	92.
184	32936.	663.7	666				

186	33294.	664.0	666.3	-2.3	-3.0	030	92.
187	33473.	664.3	666.4	-2.2	-3.0	030	92.
188	33652.	664.5	666.6	-2.1	-3.0	030	92.
189	33831.	664.8	666.8	-1.9	-3.0	030	91.
190	34010.	665.1	666.9	-1.8	-3.0	030	91.
191	34189.	665.3	667.1	-1.7	-2.9	030	91.
192	34368.	665.6	667.2	-1.6	-2.9	030	91.
193	34547.	665.9	667.4	-1.5	-2.9	030	91.
194	34726.	666.1	667.5	-1.4	-2.9	030	90.
195	34905.	666.4	667.7	-1.3	-2.9	030	90.
196	35084.	666.7	667.9	-1.2	-2.9	030	90.
197	35263.	666.9	668.0	-1.1	-2.9	030	89.
198	35442.	667.2	668.2	-1.0	-2.9	030	88.
199	35621.	667.5	668.3	-0.9	-2.9	030	87.
	35640.				SEC.	59450.000	
200	35800.	667.8	668.6	-0.8	-2.9	030	87.
201	35979.	668.1	669.0	-0.9	-2.9	030	86.
202	36158.	668.5	669.4	-1.0	-2.8	030	85.
203	36337.	668.8	669.9	-1.0	-2.8	030	85.
204	36516.	669.2	670.3	-1.1	-2.8	030	85.
205	36695.	669.5	670.7	-1.2	-2.8	030	84.
206	36874.	669.9	671.2	-1.2	-2.8	030	83.
207	37053.	670.3	671.6	-1.3	-2.8	030	83.
208	37232.	670.6	672.0	-1.4	-2.8	030	82.
	37300.				SEC.	611.100	
209	37411.	671.0	672.4	-1.4	-2.8	030	82.
210	37590.	671.3	672.7	-1.4	-2.8	030	80.
211	37769.	671.6	673.1	-1.4	-2.8	030	80.
212	37948.	672.0	673.4	-1.4	-2.8	030	80.
213	38127.	672.3	673.7	-1.4	-2.8	030	79.
214	38306.	672.7	674.1	-1.4	-2.8	030	79.
215	38485.	673.0	674.4	-1.4	-2.8	030	78.
216	38664.	673.3	674.7	-1.4	-2.8	030	78.
217	38843.	673.7	675.0	-1.4	-2.7	025	77.
	38965.				SEC.	62775.000	
218	39022.	674.0	675.4	-1.4	-2.7	025	77.
219	39201.	674.4	675.8	-1.4	-2.7	025	77.
220	39380.	674.8	676.2	-1.4	-2.7	025	76.
221	39559.	675.2	676.6	-1.4	-2.7	025	76.
222	39738.	675.6	677.1	-1.4	-2.7	025	76.
223	39917.	676.0	677.5	-1.5	-2.7	025	75.
	40055.				SEC.	638.650	
224	40096.	676.4	677.9	-1.5	-2.7	025	75.
225	40275.	676.6	678.1	-1.5	-2.7	025	74.
226	40454.	676.7	678.2	-1.5	-2.7	025	74.
227	40633.	676.8	678.3	-1.6	-2.7	025	74.
228	40812.	676.8	678.4	-1.6	-2.7	025	73.
229	40991.	676.9	678.6	-1.7	-2.7	025	72.
	41145.				SEC.	64955.000	
230	41170.	676.9	678.7	-1.8	-2.7	025	73.
	41220.				SEC.	65030.000	
	41255.				SEC.	65065.000	
	41330.				SEC.	65140.000	
231	41349.	678.5	682.3	-3.8	-2.7	025	72.
232	41528.	678.8	682.4	-3.6	-2.7	025	72.
233	41707.	679.3	682.5	-3.1	-2.7	025	73.
234	41886.	679.9	682.6	-2.7	-2.7	025	73.
235	42065.	680.4	682.7	-2.3	-2.7	025	73.
236	42244.	680.9	682.8	-1.9	-2.7	025	73.
	42422.				SEC.	66.232	
237	42423.	681.5	682.9	-1.5	-2.7	025	73.
238	42602.	681.9	683.2	-1.3	-2.7	025	72.
239	42781.	682.3	683.6	-1.3	-2.7	025	72.
240	42960.	682.7	683.9	-1.2	-2.7	025	71.
241	43139.	683.1	684.3	-1.2	-2.7	025	71.
242	43318.	683.5	684.7	-1.2	-2.6	025	71.

243	43497.	683.0	685.1	-1.2	-2.6	025	71.
	43515.				SEC.	67325.000	
244	43676.	684.1	685.4	-1.3	-2.6	025	70.
245	43855.	684.2	685.5	-1.3	-2.6	025	70.
246	44034.	684.4	685.7	-1.3	-2.6	025	70.
247	44213.	684.5	685.8	-1.4	-2.6	025	70.
248	44392.	684.6	686.0	-1.4	-2.6	025	70.
249	44571.	684.7	686.1	-1.4	-2.6	025	69.
	44730.				SEC.	68540.000	
250	44750.	684.9	686.4	-1.5	-2.6	025	69.
251	44929.	685.6	687.9	-2.4	-2.6	025	69.
	45030.				SEC.	68840.000	
	45051.				SEC.	68861.000	
252	45108.	687.7	690.8	-3.2	-2.6	025	69.
253	45287.	688.4	691.2	-2.8	-2.6	025	70.
	45351.				SEC.	69161.000	
254	45466.	689.1	691.5	-2.5	-2.6	025	70.
255	45645.	689.3	691.6	-2.4	-2.6	025	69.
	45763.				SEC.	69573.000	
	45813.				SEC.	69623.000	
256	45824.	689.3	692.1	-2.8	-2.6	025	70.
	45867.				SEC.	69677.000	
	45917.				SEC.	69727.000	
257	46003.	689.4	695.4	-6.1	-2.6	025	69.
258	46182.	689.6	695.5	-5.9	-2.6	025	69.
259	46361.	690.0	695.6	-5.6	-2.6	025	69.
260	46540.	690.4	695.7	-5.3	-2.7	025	68.
261	46719.	690.7	695.8	-5.1	-2.7	025	68.
262	46898.	691.1	695.9	-4.8	-2.7	025	68.
263	47077.	691.4	696.0	-4.5	-2.7	025	68.
264	47256.	691.8	696.1	-4.3	-2.7	025	67.
265	47435.	692.2	696.1	-4.0	-2.7	025	68.
266	47614.	692.5	696.2	-3.7	-2.7	025	67.
267	47793.	692.9	696.3	-3.5	-2.7	025	67.
268	47972.	693.2	696.4	-3.2	-2.7	025	68.
269	48151.	693.6	696.5	-2.9	-2.7	025	68.
270	48330.	694.0	696.6	-2.7	-2.7	025	68.
271	48509.	694.3	696.7	-2.4	-2.7	025	68.
272	48688.	694.7	696.8	-2.1	-2.7	025	68.
273	48867.	695.0	696.9	-1.9	-2.7	025	68.
274	49046.	695.4	697.0	-1.6	-2.7	025	68.
275	49225.	695.8	697.1	-1.3	-2.7	025	67.
276	49404.	696.1	697.2	-1.1	-2.7	025	67.
277	49583.	696.5	697.3	-0.8	-2.7	025	67.
	49665.				SEC.	73475.000	
278	49762.	696.9	697.5	-0.6	-2.7	025	66.
279	49941.	697.3	698.0	-0.6	-2.7	025	66.
280	50120.	697.8	698.6	-0.7	-2.6	025	66.
281	50299.	698.3	699.2	-0.8	-2.6	025	66.
282	50478.	698.9	699.8	-0.9	-2.6	025	65.
283	50657.	699.4	700.4	-1.0	-2.6	025	65.
284	50836.	699.9	701.0	-1.1	-2.6	025	65.
285	51015.	700.4	701.6	-1.2	-2.6	025	65.
286	51194.	700.9	702.2	-1.3	-2.6	025	65.
287	51373.	701.4	702.8	-1.4	-2.6	025	65.
288	51552.	701.9	703.4	-1.5	-2.6	025	65.
289	51731.	702.4	704.0	-1.6	-2.6	025	64.
	51745.				SEC.	75555.000	
	51820.				SEC.	75630.000	
290	51910.	702.6	703.7	-1.1	-2.6	025	64.
	51911.				SEC.	75721.000	
	51936.				SEC.	75.746	
	51961.				SEC.	75.771	
	51986						

293	52447.	705.0	706.7	-1.7	-2.6	025	65.
294	52626.	705.5	707.2	-1.7	-2.6	025	65.
295	52805.	706.0	707.7	-1.7	-2.6	025	65.
296	52984.	706.6	708.2	-1.6	-2.6	025	65.
297	53163.	707.1	708.7	-1.6	-2.6	025	65.
298	53342.	707.6	709.2	-1.6	-2.6	025	65.
299	53521.	708.1	709.7	-1.6	-2.6	025	64.
300	53700.	708.7	710.2	-1.5	-2.6	025	64.
301	53879.	709.2	710.7	-1.5	-2.6	025	64.
	53990.				SEC.	77800.000	
302	54058.	709.7	711.2	-1.5	-2.6	025	64.
303	54237.	710.0	711.5	-1.5	-2.6	025	64.
304	54416.	710.3	711.7	-1.4	-2.6	025	64.
305	54595.	710.5	711.9	-1.4	-2.5	025	63.
306	54774.	710.8	712.2	-1.4	-2.5	025	63.
307	54953.	711.1	712.4	-1.4	-2.5	025	63.
308	55132.	711.3	712.6	-1.3	-2.5	025	63.
309	55311.	711.6	712.9	-1.3	-2.5	025	63.
310	55490.	711.8	713.1	-1.3	-2.5	025	63.
	55590.				SEC.	79.400	
311	55669.	712.2	713.4	-1.3	-2.5	025	63.
312	55848.	712.7	713.9	-1.2	-2.5	025	62.
313	56027.	713.3	714.5	-1.2	-2.5	025	62.
314	56206.	713.9	715.1	-1.2	-2.5	025	62.
315	56385.	714.5	715.7	-1.2	-2.5	025	63.
316	56564.	715.1	716.2	-1.2	-2.5	025	63.
317	56743.	715.7	716.8	-1.1	-2.5	025	63.
318	56922.	716.3	717.4	-1.1	-2.5	025	62.
319	57101.	716.9	718.0	-1.1	-2.5	025	62.
	57190.				SEC.	81000.000	
320	57280.	717.5	718.6	-1.1	-2.5	025	62.
321	57459.	718.2	719.3	-1.1	-2.5	025	62.
322	57638.	718.9	720.0	-1.2	-2.5	025	62.
323	57817.	719.5	720.7	-1.2	-2.5	025	62.
324	57996.	720.2	721.4	-1.2	-2.5	025	62.
325	58175.	720.9	722.1	-1.3	-2.5	025	61.
326	58354.	721.5	722.9	-1.3	-2.5	025	61.
327	58533.	722.2	723.6	-1.4	-2.5	025	61.
328	58712.	722.9	724.3	-1.4	-2.5	025	61.
329	58891.	723.5	725.0	-1.5	-2.5	025	62.
	59030.				SEC.	82840.000	
330	59070.	724.2	725.6	-1.5	-2.5	025	62.
331	59249.	724.7	726.0	-1.3	-2.4	025	62.
	59330.				SEC.	83140.000	
	59351.				SEC.	83161.000	
332	59428.	725.4	726.5	-1.1	-2.4	025	62.
333	59607.	726.2	728.0	-1.8	-2.4	025	62.
	59651.				SEC.	83461.000	
334	59786.	727.1	729.4	-2.3	-2.4	025	62.
335	59965.	727.8	730.1	-2.3	-2.4	025	63.
336	60144.	728.4	730.5	-2.2	-2.4	025	63.
337	60323.	729.0	731.0	-2.0	-2.4	025	63.
338	60502.	729.6	731.5	-1.9	-2.4	025	63.
339	60681.	730.2	731.9	-1.7	-2.4	025	64.
340	60860.	730.8	732.4	-1.6	-2.4	025	64.
341	61039.	731.4	732.8	-1.5	-2.4	025	64.
342	61218.	732.0	733.3	-1.3	-2.4	025	64.
343	61397.	732.6	733.8	-1.2	-2.4	025	64.
	61565.				SEC.	85375.000	
344	61576.	733.2	734.2	-1.1	-2.4	025	64.
345	61755.	733.8	734.8	-1.0	-2.4	025	64.
346	61934.	734.5	735.4	-0.9	-2.4	025	65.
347	62113.	735.2	736.1	-0.9	-2.4	025	65.
348	62292.	735.9	736.7	-0.9	-2.4	025	65.
349	62471.	736.5	737.4	-0.8	-2.4	025	66.
350	62650.	737.2	738.0	-0.8	-2.4	025	66.

351	62829.	737.9	738.6	-0.7	-2.4	025	66.
352	63008.	738.6	739.3	-0.7	-2.4	025	66.
353	63187.	739.3	739.9	-0.7	-2.4	025	66.
354	63366.	739.9	740.6	-0.6	-2.4	025	66.
	63415.					SEC, 87225.000	
355	63545.	740.7	741.3	-0.6	-2.4	025	66.
356	63724.	741.6	742.2	-0.6	-2.4	025	66.
357	63903.	742.5	743.1	-0.6	-2.4	025	66.
358	64082.	743.4	744.0	-0.6	-2.4	025	66.
359	64261.	744.3	744.9	-0.6	-2.3	025	66.
360	64440.	745.2	745.8	-0.6	-2.3	025	66.
361	64619.	746.1	746.7	-0.6	-2.3	025	65.
362	64798.	747.0	747.6	-0.6	-2.3	025	66.
363	64977.	747.9	748.5	-0.7	-2.3	025	66.
364	65156.	748.8	749.4	-0.7	-2.3	025	66.
365	65335.	749.7	750.3	-0.7	-2.3	025	66.
366	65514.	750.6	751.2	-0.7	-2.3	025	66.
367	65693.	751.5	752.1	-0.7	-2.3	025	66.
368	65872.	752.3	753.0	-0.7	-2.3	025	66.
369	66051.	753.2	753.9	-0.7	-2.3	025	66.
370	66230.	754.1	754.9	-0.7	-2.3	025	66.
	66280.					SEC, 90090.000	
	66330.					SEC, 90140.000	
	66401.					SEC, 90211.000	
371	66409.	755.0	755.6	-0.7	-2.3	025	66.
	66451.					SEC, 90261.000	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 211 371
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

HEC2 RELEASE DATED NOV 76 (UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,51,52

EU

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

C
 T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	626.670	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	200.000	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	3600.000	5800.000	7500.000	10500.000	7500.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	23810.000	13.000	1183.000	1248.000	23810.000	23810.000	23810.000	0.0	-2.200	0.0
GR	635.300	1000.000	622.100	1083.000	619.600	1100.000	621.700	1183.000	619.300	1195.000
GR	618.400	1215.000	617.900	1233.000	622.900	1248.000	623.300	1300.000	624.300	1400.000
GR	625.800	1500.000	629.500	1600.000	630.900	1700.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	23910.000	16.000	1270.000	1406.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	647.900	1000.000	639.800	1100.000	634.400	1200.000	632.900	1270.000	626.300	1270.000
GR	626.300	1288.000	619.900	1300.000	617.300	1326.000	619.300	1362.000	624.300	1367.000
GR	625.300	1406.000	632.900	1406.000	632.200	1500.000	631.600	1600.000	630.400	1700.000
GR	631.200	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	70.000	1.000	1453.300	2.900	0.0	0.0
RDNO JERSEY CH. RD. MXLCEL 630.7 RDELV 632.8										
X1	23939.000	0.0	0.0	0.0	29.000	29.000	29.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	630.700	630.700	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	647.900	0.0	1100.000	639.800	0.0	1200.000	634.400	0.0
BT	1270.000	632.900	630.700	1406.000	632.900	630.700	1500.000	632.200	0.0	1600.000
BT	631.600	0.0	1700.000	630.700	0.0	1800.000	631.200	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	24039.000	13.000	1183.000	1248.000	100.000	100.000	100.000	0.0	0.0	0.0

GR	635.300	1000.000	622.100	1083.000	619.600	1100.000	621.700	1183.000	619.300	1195.000
GR	618.400	1215.000	617.900	1233.000	622.900	1248.000	623.300	1300.000	624.300	1400.000
GR	626.800	1500.000	629.500	1600.000	630.900	1700.000	0.0	0.0	0.0	0.0
QT	5.000	3150.000	5000.000	7000.000	9800.000	7000.000	0.0	0.0	0.0	0.0

X1	26650.000	12.000	1133.000	1170.000	2611.000	2611.000	2611.000	0.0	0.0	0.0
GR	640.100	1000.000	631.400	1066.000	628.900	1100.000	625.200	1133.000	620.000	1135.000
GR	615.800	1147.000	620.000	1159.000	625.200	1170.000	625.400	1200.000	625.500	1300.000
GR	626.100	1400.000	641.200	1460.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	3100.000	5150.000	6900.000	9600.000	6900.000	0.0	0.0	0.0	0.0

X1	31270.000	15.000	1395.000	1432.000	4620.000	4620.000	4620.000	0.0	0.0	0.0
GR	642.000	1000.000	639.000	1100.000	638.200	1200.000	637.200	1300.000	636.500	1340.000
GR	629.100	1359.000	629.000	1395.000	626.000	1398.000	624.800	1413.000	625.700	1428.000
GR	629.200	1432.000	629.200	1500.000	631.900	1600.000	635.400	1700.000	634.100	1800.000
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	31320.000	15.000	1401.000	1439.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	641.500	1000.000	636.200	1100.000	637.200	1200.000	635.000	1300.000	630.400	1401.000
GR	629.200	1401.000	625.400	1406.000	625.400	1418.000	624.800	1430.000	629.200	1439.000
GR	630.400	1439.000	630.200	1500.000	631.200	1600.000	634.400	1700.000	635.700	1800.000
SB	0.900	1.500	2.500	0.0	39.000	0.010	107.000	0.0	0.0	0.0

RDN0 FARM ROAD MXLCEL 629.2 RDELV 630.4

X1	31336.000	0.0	0.0	0.0	16.000	16.000	16.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	629.200	0.0	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	641.500	0.0	1100.000	636.200	0.0	1200.000	637.200	0.0
BT	1300.000	635.000	0.0	1401.000	630.400	629.200	1439.000	630.400	629.200	1500.000
BT	630.200	0.0	1400.000	631.200	0.0	1700.000	634.400	0.0	1800.000	635.700
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	31386.000	15.000	1395.000	1432.000	50.000	50.000	50.000	0.0	2.000	0.0
GR	642.000	1000.000	639.000	1100.000	638.200	1200.000	637.200	1300.000	636.500	1340.000
GR	629.100	1359.000	629.000	1395.000	626.000	1398.000	624.800	1413.000	625.700	1428.000
GR	629.200	1432.000	629.200	1500.000	631.900	1600.000	635.400	1700.000	634.100	1800.000
QT	5.000	3100.000	5150.000	6900.000	9600.000	6900.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	35555.000	13.000	1272.000	1322.000	4169.000	4169.000	4169.000	0.0	0.220	0.0
GR	643.400	1000.000	646.000	1100.000	642.500	1200.000	635.400	1272.000	631.300	1276.000
GR	629.600	1298.000	630.700	1320.000	634.000	1322.000	636.300	1400.000	637.300	1429.000
GR	642.600	1450.000	642.800	1500.000	647.400	1550.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	35585.000	16.000	1400.000	1506.000	30.000</
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BT	9.000	1000.000	639.100	0.0	1100.000	638.200	0.0	1200.000	638.900	0.0
BT	1300.000	640.100	0.0	1400.000	643.700	641.800	1506.000	643.700	641.800	1600.000
BT	645.100	0.0	1700.000	650.000	0.0	1800.000	655.400	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	35644.000	13.000	1272.000	1322.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	643.400	1000.000	646.000	1100.000	642.500	1200.000	635.400	1272.000	631.300	1276.000
GR	629.600	1298.000	630.700	1320.000	634.000	1322.000	636.300	1400.000	637.300	1429.000
GR	642.600	1450.000	642.800	1500.000	647.400	1550.000	0.0	0.0	0.0	0.0
QT	5.000	3000.000	5000.000	6500.000	9000.000	6500.000	0.0	0.0	0.0	0.0

X1	38900.000	12.000	1350.000	1394.000	3256.000	3256.000	3256.000	0.0	0.0	0.0
GR	641.800	1000.000	640.000	1100.000	639.300	1200.000	641.300	1300.000	640.800	1350.000
GR	634.500	1351.000	631.200	1371.000	634.400	1390.000	641.100	1394.000	640.700	1414.000
GR	647.900	1425.000	651.100	1452.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	3000.000	5000.000	6400.000	9000.000	6400.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	41405.000	10.000	1030.000	1075.000	2505.000	2505.000	2505.000	0.0	-0.200	0.0
GR	637.000	1000.000	641.000	1030.000	634.800	1036.000	634.300	1053.000	634.800	1071.000
GR	640.400	1075.000	649.000	1093.000	650.000	1100.000	652.400	1170.000	655.800	1180.000
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	41440.000	15.000	1401.000	1520.000	35.000	35.000	35.000	0.0	0.0	0.0
GR	667.200	1000.000	664.800	1100.000	661.600	1200.000	658.900	1300.000	656.700	1401.000
GR	649.600	1401.000	637.400	1424.000	634.400	1440.000	635.500	1462.000	643.000	1464.000
GR	651.400	1520.000	656.700	1520.000	657.000	1600.000	656.500	1700.000	657.200	1800.000
SB	0.900	1.500	2.500	0.0	70.000	1.000	1645.000	1.500	0.0	0.0

RDNQ NCSR 1130

MXLCEL 651.4

RDELV 656.7

X1	41460.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	651.400	656.500	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	667.200	0.0	1100.000	664.800	0.0	1200.000	661.600	0.0
BT	1300.000	658.900	0.0	1401.000	656.700	649.600	1520.000	656.700	651.400	1600.000
BT	657.000	0.0	1700.000	656.500	0.0	1800.000	657.200	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	41495.000	10.000	1030.000	1075.000	35.000	35.000	35.000	0.0	0.0	0.0
GR	657.000	1000.000	641.200	1030.000	634.800	1036.000	634.300	1053.000	634.800	1071.000
GR	640.400	1075.000	649.000	1093.000	650.000	1100.000	652.400	1170.000	655.800	1180.000
QT	5.000	2975.000	4900.000	6300.000	8950.000	6300.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	44950.000	11.000	1300.000	1338.000	3455.000	3455.000	3455.000	0.0	0.0	0.0
GR	651.600	1000.000	650.700	1100.000	650.500	1200.000	650.900	1300.000	645.500	1306.00

X1	49235.000	10.000	1170.000	1226.000	835.000	835.000	835.000	0.0	0.0	0.0
GR	669.900	1000.000	661.500	1100.000	660.500	1170.000	649.200	1185.000	648.800	1205.000
GR	649.300	1225.000	654.600	1226.000	656.100	1256.000	663.700	1300.000	669.900	1330.000
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	49285.000	12.000	1454.500	1513.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	694.000	1000.000	691.500	1274.000	663.300	1376.000	662.100	1447.000	660.500	1454.500
GR	652.000	1462.000	650.500	1484.000	652.000	1506.000	660.500	1513.500	660.000	1547.000
GR	652.200	1576.000	688.300	1800.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	20.000	0.010	1282.000	0.450	0.0	0.0

R0N0 SOUTHERN RR MXLCEL 680.5 RDELV 690.0

X1	49314.000	0.0	0.0	0.0	29.000	29.000	29.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	680.500	688.300	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	694.000	0.0	1100.000	693.000	0.0	1200.000	692.100	0.0
BT	1300.000	691.300	0.0	1400.000	690.500	0.0	1454.500	690.200	660.500	1462.000
BT	690.200	670.500	1484.000	690.000	680.500	1506.000	690.000	670.500	1513.500	689.700
BT	660.500	1600.000	689.200	0.0	1700.000	688.700	0.0	1800.000	688.300	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	49364.000	10.000	1170.000	1226.000	50.000	50.000	50.000	0.0	3.400	0.0
GR	669.900	1000.000	661.500	1100.000	660.500	1170.000	649.200	1185.000	648.800	1205.000
GR	649.300	1225.000	654.600	1226.000	656.100	1256.000	663.700	1300.000	669.900	1330.000
QT	5.000	2900.000	4750.000	6100.000	6700.000	6100.000	0.0	0.0	0.0	0.0

X1	51730.000	13.000	1400.000	1430.000	2366.000	2366.000	2366.000	0.0	0.0	0.0
GR	654.700	1000.000	654.600	1100.000	655.200	1200.000	655.500	1300.000	656.900	1400.000
GR	651.200	1402.000	651.400	1415.000	651.500	1428.000	657.800	1430.000	654.500	1500.000
GR	655.300	1600.000	655.800	1700.000	656.100	1800.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	51830.000	20.000	1443.000	1576.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	683.500	1000.000	678.700	1100.000	673.800	1200.000	670.400	1300.000	668.900	1400.000
GR	669.000	1443.000	664.100	1443.000	664.100	1448.000	655.400	1462.000	656.400	1495.000
GR	651.600	1500.000	651.600	1516.000	651.600	1527.000	654.700	1529.000	656.400	1559.000
GR	664.400	1576.000	669.000	1576.000	668.800	1600.000	668.700	1700.000	669.300	1800.000
SB	0.900	1.500	2.500	0.0	23.000	3.000	1075.200	3.300	0.0	0.0

R0N0 NBL I-85 MXLCEL 665.6 RDELV 669.0

X1	51865.000	0.0	0.0	0.0	35.000	35.000	35.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	665.600	668.700	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	683.500	0.0	1100.000	678.700	0.0	1200.000	673.800	0.0
BT	1300.000	670.400	0.0	1400.000	668.900	0.0	1443.000	669.000	665.600	1576.900
BT	669.000	665.600	1600.000	668.800	0.0	1700.000	668.700	0.0	1800.000	669.300
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	5
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GR	666.800	1500.000	667.400	1550.000	656.400	1550.000	655.500	1573.000	652.200	1575.000
GR	652.200	1590.000	652.600	1603.000	654.300	1606.000	652.700	1637.000	667.400	1637.000
GR	669.400	1700.000	669.900	1800.000	670.600	1900.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	87.000	4.000	972.000	0.0	0.0	0.0

RDNO SBL I-85 MXLCEL 665.8 RDELV 667.4

X1	52085.000	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	665.800	667.400	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	680.900	0.0	1100.000	677.000	0.0	1200.000	673.100	0.0
BT	1300.000	669.700	0.0	1400.000	667.500	0.0	1500.000	666.800	0.0	1550.000
BT	667.400	665.800	1637.000	667.400	665.800	1700.000	669.400	0.0	1800.000	669.900
BT	0.0	1900.000	670.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	52185.000	13.000	1400.000	1430.000	100.000	100.000	100.000	0.0	0.500	0.0
GR	654.700	1000.000	654.600	1100.000	655.200	1200.000	655.500	1300.000	656.900	1400.000
GR	651.200	1402.000	651.400	1415.000	651.500	1428.000	657.800	1430.000	654.500	1500.000
GR	655.300	1600.000	655.800	1700.000	656.100	1800.000	0.0	0.0	0.0	0.0
QT	5.000	2825.000	4600.000	6000.000	8600.000	6000.000	0.0	0.0	0.0	0.0

X1	54090.000	14.000	1400.000	1450.000	1905.000	1905.000	1905.000	0.0	-0.900	0.0
GR	659.500	1000.000	658.300	1100.000	659.300	1200.000	659.600	1300.000	660.300	1400.000
GR	653.500	1407.000	653.900	1415.000	654.700	1423.000	655.800	1440.000	660.400	1450.000
GR	660.100	1500.000	659.400	1600.000	660.500	1700.000	662.900	1800.000	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	54140.000	16.000	1400.000	1568.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	671.200	1000.000	671.700	1100.000	672.300	1200.000	672.900	1300.000	673.700	1400.000
GR	660.300	1400.000	657.800	1496.000	653.400	1500.000	653.400	1518.000	654.200	1529.000
GR	658.300	1535.000	657.300	1568.000	674.000	1568.000	673.400	1600.000	673.600	1700.000
GR	673.400	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	75.000	0.0	1992.000	2.900	0.0	0.0

RDNO OLD US 29 MXLCEL 670.1 RDELV 674.0

X1	54160.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	670.100	671.200	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	671.200	0.0	1100.000	671.700	0.0	1200.000	672.300	0.0
BT	1300.000	672.900	0.0	1400.000	674.000	670.100	1568.000	674.000	670.100	1600.000
BT	673.400	0.0	1700.000	673.600	0.0	1800.000	673.400	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	54210.000	14.000	1400.000	1450.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	659.500	1000.000	658.300	1100.000	659.300	1200.000	659.600	1300.000	660.300	1400.000
GR	653.500	1407.000	653.900	1415.000	654.700	1423.000	655.800	1440.000	660.400	1450.000
GR	660.100	1500.000	659.400	1600.000	660.500	1700.000	662.900	1800.000	0.0	0.0
QT	5.000	2190.000	3650.000	4790.000	6600.000	4790.000	0.0	0.0	0.0	0.0

X1	54975.000</
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GR	667.600	1350.000	663.400	1331.000	663.400	1341.000	663.400	1352.000	667.500	1354.000
GR	666.200	1400.000	666.400	1500.000	668.900	1500.000	669.400	1700.000	0.0	0.0
X1	611.100	0.0	0.0	0.0	1660.000	1660.000	1660.000	0.0	2.700	0.0
QT	5.000	2150.000	3450.000	4500.000	6400.000	4500.000	0.0	0.0	0.0	0.0
X1	62775.000	11.000	1038.000	1060.000	1665.000	1665.000	1665.000	0.0	0.0	0.0
GR	686.900	1000.000	674.700	1030.000	674.600	1038.000	669.100	1039.000	668.800	1047.000
GR	669.100	1057.000	674.700	1060.000	673.300	1100.000	672.200	1200.000	671.500	1300.000
GR	671.300	1400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	638.650	0.0	0.0	0.0	1090.000	1090.000	1090.000	0.0	1.900	0.0
QT	5.000	2100.000	3450.000	4500.000	6400.000	4500.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	64955.000	11.000	1210.000	1233.000	1090.000	1090.000	1090.000	0.0	-4.400	0.0
GR	682.800	1000.000	676.700	1100.000	676.600	1200.000	676.800	1210.000	672.900	1215.000
GR	672.700	1222.000	672.900	1230.000	676.800	1233.000	676.700	1300.000	676.100	1400.000
GR	676.700	1500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	65033.000	16.000	1340.000	1397.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	701.300	1000.000	695.500	1100.000	690.500	1200.000	686.700	1300.000	687.700	1340.000
GR	675.700	1340.000	673.300	1348.000	670.500	1365.000	673.600	1388.000	676.900	1392.000
GR	677.300	1397.000	686.300	1397.000	685.100	1500.000	685.200	1600.000	685.100	1700.000
GR	688.200	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	29.000	1.700	550.800	1.300	0.0	0.0

ROND OLD 64

MXLCEL 683.3

RDELV 686.3

X1	65065.000	0.0	0.0	0.0	35.000	35.000	35.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	683.300	685.100	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	701.300	0.0	1100.000	695.500	0.0	1200.000	690.500	0.0
BT	1300.000	686.700	0.0	1340.000	685.700	682.700	1397.000	686.300	683.300	1500.000
BT	685.100	0.0	1800.000	685.200	0.0	1700.000	685.100	0.0	1800.000	688.200
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	65140.000	11.000	1210.000	1233.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	682.800	1000.000	676.700	1100.000	676.600	1200.000	676.800	1210.000	672.900	1215.000
GR	672.700	1222.000	672.900	1230.000	676.800	1233.000	676.700	1300.000	676.100	1400.000
GR	676.700	1500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1790.000	2900.000	3800.000	5400.000	3800.000	0.0	0.0	0.0	0.0

X1	66.232	0.0	0.0	0.0	1092.000	1092.000	1092.000	0.0	3.900	0.0
ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	67325.000	12.000	1370.000	1386.000	1093.000	1093.000	1093.000	0.0	0.0	0.0
GR	681.300	1000.000	680.800	1100.000	6					

GR	683.000	1402.000	682.800	1407.000	683.000	1413.000	685.400	1415.000	683.900	1500.000
GR	693.800	1600.000	698.600	1665.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.300	0.500	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1169.000	1369.000	0.0	0.0

X1	68840.000	14.000	1400.000	1435.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	688.700	1000.000	689.000	1100.000	689.300	1200.000	689.500	1300.000	690.200	1400.000
GR	682.800	1400.000	680.800	1418.000	683.000	1425.000	685.800	1435.000	690.200	1435.000
GR	690.500	1500.000	690.900	1600.000	691.700	1700.000	693.900	1800.000	0.0	0.0
SB	0.900	1.500	2.000	0.0	35.000	1.000	211.000	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1000.000	1568.000	0.0	0.0

RDND NCSR 1231

MXLCEL 688.6

RDELV 690.2

X1	68861.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	688.600	688.700	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	688.700	0.0	1100.000	689.000	0.0	1200.000	689.300	0.0
BT	1300.000	689.500	0.0	1400.000	690.200	688.600	1435.000	690.200	688.600	1500.000
BT	690.500	0.0	1400.000	690.900	0.0	1700.000	691.700	0.0	1800.000	693.900
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1020.000	1560.000	0.0	0.0

X1	69161.000	12.000	1400.000	1415.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	683.000	1000.000	683.500	1100.000	683.800	1200.000	684.200	1300.000	685.400	1400.000
GR	683.000	1402.000	682.800	1407.000	683.000	1413.000	685.400	1415.000	683.900	1500.000
GR	693.800	1600.000	698.600	1665.000	0.0	0.0	0.0	0.0	0.0	0.0
BT	5.000	1720.000	2800.000	3720.000	5200.000	3720.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1100.000	1700.000	0.0	0.0

X1	69573.000	15.000	1455.000	1482.000	412.000	412.000	412.000	0.0	0.0	0.0
GR	697.800	1000.000	686.100	1064.000	685.200	1100.000	685.400	1200.000	685.500	1300.000
GR	687.500	1400.000	687.400	1455.000	683.400	1456.000	683.300	1466.000	683.900	1476.000
GR	687.900	1482.000	687.600	1500.000	687.500	1600.000	690.800	1700.000	695.300	1800.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	69623.000	15.000	1399.000	1420.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	696.400	944.000	684.700	1008.000	683.800	1044.000	684.000	1144.000	685.500	1244.000
GR	686.100	1344.000	686.000	1399.000	681.900	1399.000	681.900	1420.000	686.500	1420.000
GR	686.200	1444.000	686.100	1544.000	689.400	1644.000	693.900	1744.000	701.300	1800.000
SB	0.900	1.500	2.500	0.0	21.000	0.250	166.000	0.0	0.0	0.0

RDND RT 64

MXLCEL 689.9

RDELV 694.1

X1	69677.000	0.0	0.0	0.0	54.000	54.000	54.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	689.900	693.800	0.0	0.0	0.0	0.0	0.0
BT	12.000	944.000	696.400	0.0	1000.000	695.300	0.0	1100.000	694.400	0.0
BT	1200.000	69								

	ET	5.000	0.0	0.0	0.0	0.0	-8.400	0.0	0.0	0.0	0.0
X1	73475.000	14.000	1400.000	1413.000	3748.000	3748.000	3748.000	0.0	0.0	0.0	0.0
GR	695.500	1000.000	695.500	1100.000	695.400	1200.000	696.900	1300.000	698.200	1400.000	1500.000
GR	692.000	1402.000	691.100	1407.000	692.000	1411.000	697.300	1413.000	696.200	1500.000	1500.000
GR	696.600	1600.000	695.800	1628.000	703.400	1700.000	710.400	1800.000	0.0	0.0	0.0
EJ											

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50.51.52

T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-19.	6.	0.	0.	0.0	0.0	0.0	0.	627.670	0.0

J2	MPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300

*SECNO 23810.000

2800 NAT Q1= 3045.07 WSEL= 626.67 ENC Q1= 3045.07 WSEL= 627.67 RATIO= 0.0
 NAT Q1= 3862. RATIOS LOB,CH,ROB= 0.3141 0.3588 0.3270 WSEL= 627.67

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

3470 ENCROACHMENT STATIONS=	1102.2	1395.9	TYPE=	4	TARGET=	0.211
23810.00	11.97	627.67	0.0	626.67	627.90	0.23
7300.	2003.	3411.	2086.	743.	686.	936.
0.0	2.70	4.97	2.23	0.055	0.035	0.055
0.000606	23810.	23810.	23810.	0	0	0

CCHV= 0.100 CEHV= 0.300

*SECNO 23910.000

IHC209I IBCOM - PROGRAM INTERRUPT (P) - DIVIDE CHECK OLD PSW IS FFA5000F420DE492 , REGISTER CONTAINED 0000000000000000

TRACEBACK ROUTINE CALLED FROM ISN	REG. 14	REG. 15	REG. 0	REG. 1
H2MAIN	0005	520D373A	000D3778	FD000008
MAIN	0001224A	010D3610	FD000008	0014F7F8

ENTRY POINT= 010D3610

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

2800 NAT Q1= 653.54 WSEL= 626.29 ENC Q1= 827.60 WSEL= 627.29 RATIO= -0.2663
 NAT Q1= 828. RATIOS LOB,CH,ROB= 0.0 1.0000 0.0 WSEL= 627.29

3301 HV CHANGED MORE THAN HVINS

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

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

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
23810.000	23810.00	0.0	0.0	7500.00	615.70	626.67	0.0	4.66	1040.43	1576.67	2802.20	0.0
23810.000	23810.00	0.0	0.0	7500.00	615.70	627.67	0.0	4.97	1102.17	1395.91	2365.24	1.00
23910.000	100.00	0.0	0.0	7500.00	617.30	626.29	626.29	12.36	1288.02	1406.00	606.62	0.0
23910.000	100.00	0.0	0.0	7500.00	617.30	626.44	626.26	11.97	1270.00	1406.00	626.78	0.15
23939.000	29.00	630.70	630.70	7500.00	617.30	626.42	0.0	12.01	1270.00	1406.00	624.23	0.0
23939.000	29.00	630.70	630.70	7500.00	617.30	627.42	0.0	9.87	1270.00	1406.00	760.20	1.00
24039.000	100.00	0.0	0.0	7500.00	617.90	628.86	0.0	4.66	1040.46	1576.47	2799.25	0.0
24039.000	100.00	0.0	0.0	7500.00	617.90	628.96	0.0	5.62	1102.09	1396.02	2098.02	0.10
26650.000	2611.00	0.0	0.0	7000.00	615.80	630.92	0.0	6.98	1072.54	1419.15	1849.53	0.0
26650.000	2611.00	0.0	0.0	7000.00	615.80	631.65	0.0	7.71	1108.04	1320.87	1511.89	0.73
31270.000	4620.00	0.0	0.0	6900.00	624.80	636.24	0.0	6.08	1340.66	1800.00	2170.59	0.0
31270.000	4620.00	0.0	0.0	6900.00	624.80	637.28	0.0	6.42	1361.50	1571.63	1762.48	1.03
31320.000	50.00	0.0	0.0	6900.00	624.80	636.30	0.0	6.14	1098.09	1800.00	2198.10	0.0
31320.000	50.00	0.0	0.0	6900.00	624.80	637.32	0.0	6.50	1346.72	1584.36	1734.71	1.03
31336.000	16.00	630.20	629.20	6900.00	624.80	636.42	0.0	5.96	1095.79	1800.00	2269.04	0.0
31336.000	16.00	999999.00	0.0	6900.00	624.80	637.45	0.0	6.30	1343.53	1586.96	1795.86	1.03
31386.000	50.00	0.0	0.0	6900.00	626.80	636.16	0.0	9.62	1345.99	1800.00	1302.44	0.0
31386.000	50.00	0.0	0.0	6900.00	626.80	637.01	0.0	10.64	1367.90	1518.62	1004.31	0.84
35555.000	4169.00	0.0	0.0	6900.00	629.82	643.01	0.0	6.43	1191.65	1498.14	1720.40	0.0
35555.000	4169.00	0.0	0.0	6900.00	629.82	643.94	0.0	6.43	1241.07	1401.33	1542.53	0.93
35585.000	30.00	0.0	0.0	6900.00	627.10	643.28	0.0	4.33	1000.00	1506.00	2434.86	0.0
35585.000	30.00	0.0	0.0	6900.00	627.10	644.17	0.0	4.68	1148.11	1506.00	2054.25	0.90
35614.000	29.00	638.20	641.80	6900.00	627.10	643.34	0.0	4.27	1000.00	1506.00	2466.83	0.0
35614.000	29.00	999999.00	0.0	6900.00	627.10	644.24	0.0	4.62	1147.04	1506.00	2083.47	0.90
35924.000	30.00	0.0	0.0	6900.00	629.60	643.25	0.0	6.02	1178.53	1504.91	1866.11	0.0
35944.000	30.00	0.0	0.0	6900.00	629.60	644.17	0.0	6.04	1236.70	1405.10	1668.44	0.92

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
H	38900.000	3256.00	n.0	0.0	6500.00	631.20	645.64	0.0	4.86	1000.00	1421.54	2487.52	0.0
	38900.000	3256.00	n.0	0.0	6500.00	631.20	646.42	0.0	4.93	1096.29	1414.15	2265.13	0.78
	41735												
I	41405.000	2505.00	n.0	0.0	6400.00	634.10	647.30	0.0	11.14	1018.04	1089.86	640.36	0.0
	41405.000	2505.00	n.0	0.0	6400.00	634.10	648.18	0.0	10.86	1030.00	1075.00	589.54	0.82
	41440.000	35.00	n.0	0.0	6400.00	634.40	647.98	0.0	9.34	1404.06	1497.16	685.08	0.0
	41440.000	35.00	n.0	0.0	6400.00	634.40	649.25	0.0	7.90	1401.67	1505.64	810.43	1.27
	41460.000	20.00	656.50	651.40	6400.00	634.40	648.01	0.0	9.30	1404.00	1497.40	688.45	0.0
	41460.000	20.00	656.50	651.40	6400.00	634.40	649.01	0.0	8.14	1402.11	1504.07	786.11	1.00
	41825												
J	41495.000	35.00	n.0	0.0	6400.00	634.30	647.86	0.0	10.77	1017.34	1090.63	666.86	0.0
	41495.000	35.00	n.0	0.0	6400.00	634.30	648.83	0.0	10.50	1030.00	1075.00	609.67	0.96
	44950.000	3455.00	n.0	0.0	6300.00	644.70	655.57	0.0	6.28	1000.00	1355.24	1834.26	0.0
K	44950.000	3455.00	n.0	0.0	6300.00	644.70	656.57	0.0	6.29	1090.18	1345.99	1682.74	0.99
	48400.000	3450.00	n.0	0.0	6100.00	648.60	659.64	0.0	5.92	1090.86	1400.00	1779.16	0.0
L	48400.000	3450.00	n.0	0.0	6100.00	648.60	660.45	0.0	6.44	1138.19	1349.62	1505.78	0.81
	49585												
	49235.000	835.00	n.0	0.0	6100.00	648.80	660.32	0.0	9.81	1170.23	1280.45	743.26	0.0
M	49235.000	835.00	n.0	0.0	6100.00	648.80	661.10	0.0	10.41	1170.00	1226.00	586.09	0.78
	49635												
	49285.000	50.00	n.0	0.0	6100.00	650.50	660.84	0.0	9.14	1452.92	1629.59	879.38	0.0
	49285.000	50.00	n.0	0.0	6100.00	650.50	661.50	0.0	10.34	1453.68	1573.04	702.59	0.66
	49664												
	49314.000	29.00	688.30	680.50	6100.00	650.50	660.84	0.0	9.14	1452.91	1629.60	879.64	0.0
	49314.000	29.00	688.30	680.50	6100.00	650.50	661.84	0.0	7.81	1448.23	1635.81	1061.73	1.00
	49714												
N	49364.000	50.00	n.0	0.0	6100.00	652.20	661.22	661.22	14.11	1173.56	1265.96	489.76	0.0
	49364.000	50.00	n.0	0.0	6100.00	652.20	660.89	660.89	15.64	1173.99	1226.00	389.98	-0.33
	52032												
O	51730.000	2366.00	n.0	0.0	6100.00	651.20	664.78	0.0	1.30	1000.00	1800.00	7593.23	0.0
	51730.000	2366.00	n.0	0.0	6100.00	651.20	665.46	0.0	1.42	1060.08	1734.45	6865.21	0.68
	52113												
	51830.000	100.00	n.0	0.0	6100.00	651.60	664.48	0.0	5.49	1443.00	1576.00	1111.21	0.0
	51830.000	100.00	n.0	0.0	6100.00	651.60	665.20	0.0	5.05	1443.00	1576.00	12	

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
54610												
54140.000	50.00	0.0	0.0	6000.00	653.40	665.24	0.0	4.72	1400.00	1568.00	1270.71	0.0
54140.000	50.00	0.0	0.0	6000.00	653.40	665.91	0.0	4.33	1400.00	1568.00	1384.42	0.68
54620												
54160.000	20.00	671.20	670.10	6000.00	653.40	665.26	0.0	4.71	1400.00	1568.00	1275.17	0.0
54160.000	20.00	99999.00	0.0	6000.00	653.40	665.94	0.0	4.32	1400.00	1568.00	1388.92	0.68
54680												
54210.000	50.00	0.0	0.0	6000.00	653.50	665.62	0.0	2.36	1000.00	1800.00	4854.05	0.0
54210.000	50.00	0.0	0.0	6000.00	653.50	666.23	0.0	2.68	1099.70	1680.14	4036.87	0.60
57527												
56975.000	2765.00	0.0	0.0	4790.00	659.90	666.25	0.0	2.53	1000.80	1753.42	3244.43	0.0
56975.000	2765.00	0.0	0.0	4790.00	659.90	666.97	0.0	2.99	1144.73	1665.39	2687.17	0.72
60002												
59450.000	2475.00	0.0	0.0	4790.00	663.40	668.43	667.69	7.24	1046.63	1581.12	1264.40	0.0
59450.000	2475.00	0.0	0.0	4790.00	663.40	669.40	0.0	8.32	1172.61	1457.20	999.89	0.97
611.100	1660.00	0.0	0.0	4790.00	666.10	672.38	0.0	4.37	1041.21	1700.00	2039.21	0.0
611.100	1660.00	0.0	0.0	4790.00	666.10	673.43	0.0	4.77	1147.28	1494.42	1682.02	1.06
63327												
62775.000	1665.00	0.0	0.0	4500.00	668.80	675.43	0.0	6.35	1028.21	1400.00	1223.27	0.0
62775.000	1665.00	0.0	0.0	4500.00	668.80	676.40	0.0	7.11	1031.48	1293.27	1069.75	0.97
638.650	1090.00	0.0	0.0	4500.00	670.70	678.02	0.0	5.10	1026.50	1400.00	1481.59	0.0
638.650	1090.00	0.0	0.0	4500.00	670.70	679.05	0.0	5.59	1030.36	1305.83	1317.51	1.03
64955.000	1090.00	0.0	0.0	4500.00	668.30	678.72	0.0	2.71	1000.00	1500.00	3038.44	0.0
64955.000	1090.00	0.0	0.0	4500.00	668.30	679.75	0.0	2.71	1085.12	1452.14	2853.92	1.03
65532												
65030.000	75.00	0.0	0.0	4500.00	670.50	678.80	678.80	13.75	1340.00	1397.00	327.19	0.0
65030.000	75.00	0.0	0.0	4500.00	670.50	678.80	678.80	13.75	1340.00	1397.00	327.18	-0.00
65617												
65065.000	35.00	685.10	683.30	4500.00	670.50	680.21	0.0	11.05	1340.00	1397.00	407.42	0.0
65065.000	35.00	685.10	683.30	4500.00	670.50	681.21	0.0	9.69	1340.00	1397.00	464.40	1.00
65642												
65140.000	75.00	0.0	0.0	4500.00	672.70	682.29	0.0	3.18	1008.15	1500.00	2633.25	0.0
65140.000	75.00	0.0	0.0	4500.00	672.70	682.78	0.0	3.70	1099.69	1428.40	2119.63	0.49
66.232	1092.00	0.0	0.0	3800.00	676.60	682.97	0.0	7.14	1061.10	1500.00	1130.25	0.0
66.232	1092.00	0.0	0.0	3800.00	676.60	683.51	0.0	9.22	1143.17	1378.46	778.81	0.54
67875												

SEE PART II

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN.	CWSEL	CRINS	VCH	SSTA	ENDST	AREA	DIFWSP
70053												
69623.000	50.00	0.0	0.0	3720.00	681.90	691.67	0.0	0.99	969.91	1694.31	4094.72	0.0
69623.000	50.00	0.0	0.0	3720.00	681.90	692.87	0.0	1.02	1070.77	1573.49	3793.10	1.20
70107												
69677.000	54.00	693.80	689.90	3720.00	681.90	695.41	0.0	0.54	949.40	1755.44	6987.57	0.0
69677.000	54.00	999999.00	0.0	3720.00	681.90	696.61	0.0	0.55	1042.15	1635.46	6565.72	1.20
70157												
69727.000	50.00	0.0	0.0	3720.00	683.30	695.41	0.0	1.04	1013.08	1800.00	6014.07	0.0
69727.000	50.00	0.0	0.0	3720.00	683.30	696.61	0.0	0.99	1083.13	1696.97	6081.78	1.20
74120												
73475.000	3748.00	0.0	0.0	3400.00	691.10	697.35	697.35	10.37	1000.00	1642.66	754.30	0.0
73475.000	3748.00	0.0	0.0	3400.00	691.10	698.15	698.15	11.14	1153.51	1525.98	632.10	0.81

SUMMARY OF ERRORS

CAUTION SECNO=23910.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=23910.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=23910.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=49364.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=49364.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=49364.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=49364.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=49364.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=49364.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=65030.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=65030.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=65030.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=65030.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=65030.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=65030.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=65065.000 PROFILE= 1 HYDRAULIC JUMP D.S.
CAUTION SECNO=65065.000 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO=68840.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=68840.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=68840.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=68840.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=68840.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=68840.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=69677.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=73475.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=73475.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=73475.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=73475.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=73475.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=73475.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR.
 PROFILE NO. 2

STATION	----- WIDTH (FT)	FLOODWAY SECTION AREA	----- MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
23810.000	294.	2365.	3.2	627.7	626.7	1.0
23910.000	136.	627.	12.0	626.4	626.3	0.1
23939.000	136.	760.	9.9	627.4	626.4	1.0
24039.000	294.	2098.	3.6	629.0	628.9	0.1
26650.000	213.	1512.	4.6	631.6	630.9	0.7
31270.000	210.	1762.	3.9	637.2	636.2	1.0
31320.000	238.	1735.	4.0	637.3	636.3	1.0
31336.000	243.	1796.	3.8	637.4	636.4	1.0
31386.000	151.	1004.	6.9	637.0	636.2	0.8
35555.000	160.	1543.	4.5	643.9	643.0	0.9
35585.000	358.	2054.	3.4	644.2	643.3	0.9
35614.000	359.	2083.	3.3	644.2	643.3	0.9
35644.000	168.	1668.	4.1	644.2	643.3	0.9
38900.000	318.	2265.	2.9	646.4	645.6	0.8
41405.000	45.	590.	10.9	648.2	647.3	0.9
41440.000	104.	810.	7.9	649.3	648.0	1.3
41460.000	102.	786.	8.1	649.0	648.0	1.0
41495.000	45.	610.	10.5	648.9	647.9	1.0
44950.000	256.	1683.	3.7	656.6	655.6	1.0
48400.000	211.	1506.	4.1	660.4	659.6	0.8
49235.000	56.	586.	10.4	661.1	660.3	0.8
49285.000	119.	703.	8.7	661.5	660.8	0.7
49314.000	198.	1062.	5.7	661.8	660.0	1.0
49364.000	52.	390.	15.6	661.0	661.2	-0.2
51730.000	674.	6865.	0.9	665.5	664.8	0.7
51930.000	133.	1208.	5.1	665.2	664.5	0.7
51863.000	133.	1211.	5.0	665.2	664.5	0.7
51960.000	671.	6630.	0.9	665.6	665.0	0.6
52055.000	87.	1001.	6.1	665.3	664.6	0.7
52085.000	87.	1004.	6.1	665.3	664.6	0.7
52185.000	675.	6868.	0.9	665.9	665.3	0.6
54090.000	600.	4616.	1.3	666.0	665.4	0.6
54140.000	168.	1384.	4.3	665.9	665.2	0.7
54160.000	168.	1389.	4.3	666.0	665.3	0.7
54210.000	580.	4037.	1.5	666.2	665.6	0.6
56975.000	521.	2687.	1.8	666.9	666.2	0.7
59450.000	285.	1000.	4.8	669.4	668.4	1.0
611.100	347.	1682.	2.8	673.5	672.4	1.1
62775.000	267.	1070.	4.2	676.4	675.4	1.0
638.650	275.	1318.	3.4	679.0	678.0	1.0
64955.000	367.	2854.	1.6	679.7	678.7	1.0
65030.000	57.	327.	13.8	678.8	678.8	0.0
65065.000	57.	464.	9.7	681.2	680.2	1.0
65140.000	329.	2120.	2.1	682.8	682.3	0.5
66.232	235.	779.	4.9	683.5	683.0	0.5
67325.000	314.	1479.	2.6	686.2	685.3	0.9
68540.000	424.	2119.	1.8	687.1	686.3	0.8
68840.000	200.	840.	8.5	691.7	690.7	1.0
68861.000	568.	2003.	1.9	692.7	690.8	1.9
69161.000	540.	4570.	0.8	692.8	691.6	1.2

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
 PROFILE NO. 2

STATION	----- WIDTH (FT)	FLOODWAY SECTION AREA	----- MEAN VELOCITY	WATER SURFACE ELEVATION WITH WITHOUT DIFFERENCE FLOODWAY FLOODWAY		
69573.000	600.	3666.	1.0	692.9	691.7	1.2
69623.000	503.	3793.	1.0	692.9	691.7	1.2
69677.000	593.	6566.	0.6	696.6	695.4	1.2
69727.000	614.	6082.	0.6	696.6	695.4	1.2
73475.000	369.	632.	5.4	698.1	697.3	0.8

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,51,52

EJ

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

C
 T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	691.620	0.0

J2	WPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	39.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	200.000	0.0	0.0	0.0	0.0	0.0

NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1720.000	2800.000	3720.000	5200.000	3720.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	69161.000	12.000	1400.000	1415.000	69161.000	69161.000	69161.000	0.0	0.0	0.0
GR	683.000	1000.000	683.500	1100.000	683.800	1200.000	684.200	1300.000	685.400	1400.000
GR	683.000	1402.000	682.800	1407.000	683.000	1413.000	685.400	1415.000	683.900	1500.000
GR	693.800	1600.000	698.600	1665.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1720.000	2800.000	3720.000	5200.000	3720.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1333.000	1419.000	0.0	0.0

X1	69573.000	15.000	1455.000	1482.000	412.000	412.000	412.000	0.0	0.0	0.0
GR	697.800	1000.000	686.100	1064.000	685.200	1100.000	685.400	1200.000	685.500	1300.000
GR	687.500	1400.000	687.400	1455.000	683.400	1456.000	683.300	1466.000	683.900	1476.000
GR	687.500	1482.000	687.600	1500.000	687.500	1600.000	690.800	1700.000	695.300	1800.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-15.400	0.0	0.0	0.0	0.0

X1	69623.000	15.000	1399.000	1420.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	696.400	944.000	684.700	1008.000	683.800	1044.000	684.000	1144.000	685.500	1244.000
GR	686.100	1344.000	686.000	1399.000	681.900	1399.000	681.900	1420.000	686.500	1420.000
GR	686.200	1444.000	686.100	1544.000	689.400	1644.000	693.900	1744.000	701.300	1800.000
SB	0.900	1.500	2.500	0.0	21.000	0.250	166.000	0.0	0.0	0.0

X1	65677.000	0.0	0.0	0.0	54.000	54.000	54.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	689.900	693.800	0.0	0.0	0.0	0.0	0.0
BT	12.000	944.000	696.400	0.0	1000.000	695.300	0.0	1100.000	694.400	0.0
BT	1200.000	693.800	0.0	1300.000	693.800	0.0	1399.000	694.100	689.900	1420.000
BT	694.100	689.900	1500.000	695.300	0.0	1600.000	697.200	0.0	1700.000	699.300
BT	0.0	1750.000	700.300	0.0	1800.000	701.300	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-1.400	0.0	0.0	0.0	0.0

X1	69727.000	15.000	1455.000	1482.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	697.800	1000.000	686.100	1064.000	685.200	1100.000	685.400	1200.000	685.500	1300.000
GR	687.500	1400.000	687.400	1455.000	683.400	1456.000	683.300	1466.000	683.900	1476.000
GR	687.900	1482.000	687.600	1500.000	687.500	1600.000	690.800	1700.000	695.300	1800.000
QT	5.000	1590.000	2600.000	3400.000	4900.000	3400.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-8.400	0.0	0.0	0.0	0.0

X1	73475.000	14.000	1400.000	1413.000	3748.000	3748.000	3748.000	0.0	0.0	0.0
GR	695.500	1000.000	695.500	1100.000	695.400	1200.000	696.900	1300.000	698.200	1400.000
GR	692.000	1402.000	691.100	1407.000	692.000	1411.000	697.300	1413.000	696.200	1500.000
GR	696.600	1600.000	695.800	1628.000	703.400	1700.000	710.400	1800.000	0.0	0.0
QT	5.000	1500.000	2500.000	3300.000	4700.000	3300.000	0.0	0.0	0.0	0.0

X1	75555.000	13.000	1400.000	1449.000	2080.000	2080.000	2080.000	0.0	-2.300	0.0
GR	714.100	1000.000	707.000	1100.000	704.100	1200.000	702.900	1300.000	703.200	1400.000
GR	697.500	1419.000	696.900	1426.000	697.600	1434.000	710.200	1449.000	710.500	1500.000
GR	711.300	1600.000	713.000	1700.000	714.600	1800.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	75630.000	18.000	1512.000	1603.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	726.100	1000.000	722.400	1100.000	719.000	1200.000	715.600	1300.000	712.600	1400.000
GR	710.800	1500.000	710.900	1512.000	708.800	1512.000	700.400	1531.000	697.400	1558.000
GR	695.900	1570.000	697.400	1582.000	705.400	1593.000	708.800	1603.000	710.900	1603.000
GR	711.900	1700.000	712.800	1800.000	717.100	1900.000	0.0	0.0	0.0	0.0
SB	0.900	195.000	295.000	0.0	91.000	2.000	741.000	0.0	0.0	0.0

ROND W. CENTER ST. MXLCEL 708.8

RDELV 710.9

X1	75721.000	0.0	0.0	0.0	91.000	91.000	91.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	708.800	710.700	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	726.100	0.0	1100.000	722.400	0.0	1200.000	719.000	0.0
BT	1300.000	715.600	0.0	1400.000	712.600	0.0	1500.000	710.800	0.0	1512.000
BT	710.900	708.800	1603.000	710.900	708.800	1700.000	711.900	0.0	1800.000	712.800
BT	0.0	1900.000	717.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1250.000	1442.000	0.0	0.0

X1	75.746	13.000	1400.000	1449.000	25.000	25.000	25.000	0.0	0.0	0.0

X1	77800.000	15.000	1324.000	1350.000	2004.000	2004.000	2004.000	0.0	0.0	0.0
GR	712.300	1000.000	707.600	1100.000	707.600	1200.000	708.200	1300.000	707.700	1324.000
GR	705.700	1330.000	704.800	1339.000	705.700	1349.000	707.000	1359.000	706.000	1368.000
GR	709.000	1370.000	709.000	1400.000	713.100	1500.000	718.000	1600.000	721.300	1685.000
QT	5.000	990.000	1600.000	2200.000	3170.000	2200.000	0.0	0.0	0.0	0.0

X1	79.400	0.0	0.0	0.0	1600.000	1600.000	1600.000	0.0	3.000	0.0
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X1	81000.000	13.000	1260.000	1278.000	1600.000	1600.000	1600.000	0.0	0.0	0.0
GR	731.100	1000.000	719.200	1100.000	718.200	1110.000	715.500	1200.000	717.000	1260.000
GR	711.000	1262.000	710.700	1267.000	711.000	1273.000	717.200	1278.000	718.700	1290.000
GR	721.500	1305.000	727.400	1400.000	730.200	1500.000	0.0	0.0	0.0	0.0
JT	5.000	920.000	1500.000	2100.000	2900.000	2100.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0	0.0

X1	82840.000	12.000	1250.000	1273.000	1840.000	1840.000	1840.000	0.0	0.0	0.0
GR	738.100	1000.000	723.100	1080.000	723.100	1100.000	723.500	1200.000	723.800	1250.000
GR	717.600	1257.000	715.500	1261.000	717.600	1265.000	724.500	1273.000	723.800	1300.000
GR	720.900	1400.000	738.100	1450.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	83140.000	17.000	1400.000	1427.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	740.900	1000.000	735.700	1100.000	732.000	1200.000	730.100	1300.000	729.900	1400.000
GR	719.800	1400.000	719.300	1403.000	717.800	1405.000	718.100	1414.000	717.700	1420.000
GR	720.600	1422.000	721.600	1427.000	730.100	1427.000	730.800	1500.000	733.300	1600.000
GR	737.100	1700.000	740.300	1800.000	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.900	1.500	2.500	0.0	27.000	0.010	244.000	0.0	0.0	0.0

RDN0 NCSR 1457 MXLCEL 728.1 RDELV 730.1

X1	83161.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	728.100	729.900	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	740.900	0.0	1100.000	735.700	0.0	1200.000	732.000	0.0
BT	1300.000	730.100	0.0	1400.000	729.900	727.700	1427.000	730.100	728.100	1500.000
BT	730.800	0.0	1600.000	733.300	0.0	1700.000	737.100	0.0	1800.000	740.300
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	83461.000	12.000	1250.000	1273.000	300.000	300.000	300.000	0.0	4.400	0.0
GR	738.100	1000.000	723.100	1080.000	723.100	1100.000	723.500	1200.000	723.800	1250.000
GR	717.600	1257.000	715.500	1261.000	717.600	1265.000	724.500	1273.000	723.800	1300.000
GR	728.900	1400.000	738.100	1450.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	750.000	1220.000	1650.000	2500.000	1650.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1070.000	1270.000	0.0	0.0

X1	85375.000	11.000	1116.000	1125.000	1914.000	1914.000	1914.000	0.0	0.0	0.0
GR	744.900	1000.								

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 DAVIDSON COUNTY BASIN C STREAM 1 SWEARING CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	692.620	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300

*SECNO 69161.000

2600 NAT Q1= 4185.43 WSEL= 691.62 ENC Q1= 4185.43 WSEL= 692.62 RATIO= 0.0
 NAT Q2= 5164. RATIOS LOB,CH,ROB= 0.7583 0.0468 0.1949 WSEL= 692.62
 3280 CROSS SECTION 69161.00 EXTENDED 9.62 FEET

SECNO	DEPTH	CWSEL	CRWS	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	XLORL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	1070.6	1509.7	TYPE=	4	TARGET=	0.190
69161.00	9.82	692.62	0.0	691.62	692.64	0.02
3720.	2797.	216.	707.	2812.	141.	757.
0.0	0.99	1.54	0.93	0.055	0.035	0.055
0.000080	69161.	69161.	69161.	0	0	0

*SECNO 69573.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	1333.0	1419.0	TYPE=	1	TARGET=	86.000
69573.00	5.75	691.91	0.0	691.66	693.10	1.19
3720.	3720.	0.	0.	425.	0.	0.
0.01	8.76	0.0	0.0	0.055	0.035	0.055
0.014330	412.	412.	412.	3	0	0

CCHV= 0.100 CEHV= 0.300

*SECNO 69623.000

2800 NAT Q1= 8112.23 WSEL= 691.67 ENC Q1= 8112.23 WSEL= 693.17 RATIO= 0.0

0.001599 50. 50. 50. 2 0 0 0.0 105.00 1362.88

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,51,52

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

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
	69711												
AA	69161.000	69161.00	0.0	0.0	3720.00	682.80	691.62	0.0	1.42	1000.00	1577.98	4097.13	0.0
	69161.000	69161.00	0.0	0.0	3720.00	682.80	692.62	0.0	1.54	1070.55	1509.67	3709.52	1.00
	70003												
	69573.000	412.00	0.0	0.0	3720.00	683.30	691.66	0.0	2.02	1033.63	1718.95	3245.48	0.0
	69573.000	412.00	0.0	0.0	3720.00	686.16	691.91	0.0	0.0	1333.00	1419.00	424.70	0.25
	70053												
	69623.000	50.00	0.0	0.0	3720.00	681.90	691.67	0.0	0.99	969.89	1694.37	4096.66	0.0
	69623.000	50.00	0.0	0.0	3720.00	681.90	691.21	0.0	1.09	1101.16	1555.95	3566.72	1.53
	70107												
*	69677.000	54.00	693.80	689.90	3720.00	681.90	695.41	0.0	0.54	949.40	1755.45	6987.96	0.0
	69677.000	54.00	999999.00	0.0	3720.00	681.90	696.94	0.0	0.58	1064.65	1615.62	6305.80	1.53
	70157												
	69727.000	50.00	0.0	0.0	3720.00	683.30	695.41	0.0	1.04	1013.08	1800.00	6014.46	0.0
	69727.000	50.00	0.0	0.0	3720.00	683.30	696.94	0.0	0.89	1053.35	1733.72	6803.00	1.53
	74120												
AB	73475.000	3748.00	0.0	0.0	3400.00	691.10	697.35	697.35	10.37	1000.00	1642.66	754.16	0.0
	73475.000	3748.00	0.0	0.0	3400.00	691.10	698.16	698.16	11.12	1153.51	1525.98	633.25	0.81
	76200												
AC	75555.000	2080.00	0.0	0.0	3300.00	694.60	704.32	0.0	5.37	1112.73	1444.75	1090.58	0.0
	75555.000	2080.00	0.0	0.0	3300.00	694.60	705.16	0.0	5.67	1284.96	1445.74	854.98	0.84
	76275												
	75630.000	75.00	0.0	0.0	3300.00	695.90	703.67	0.0	9.79	1523.58	1590.63	336.94	0.0
	75630.000	75.00	0.0	0.0	3300.00	695.90	704.91	0.0	7.81	1520.78	1592.33	422.73	1.24
	76366												
	75721.000	91.00	710.70	708.80	3300.00	695.90	703.80	0.0	9.56	1523.30	1590.80	345.36	0.0
	75721.000	91.00	710.70	708.80	3300.00	695.90	704.60	0.0	8.24	1521.49	1591.90	400.51	0.80
	76391												
*	75746	25.00	0.0	0.0	3300.00	696.90	704.99	704.99	10.54	1250.27	1442.80	482.85	0.0
*	75746	25.00	0.0	0.0	3300.00	696.90	705.14	705.14	10.02	1250.00	1442.00	512.44	0.16
	76416												
*	75771	25.00	0.0	0.0	3300.00	697.20	705.33	705.33	10.38	1249.19	1442.85	491.57	0.0
*	75771	25.00	0.0	0.0	3300.00	697.20	705.25	705.25	10.67	1251.14	1442.75	475.86	-0.08
	76441												
AD	75795.000	25.00	0.0	0.0	3300.00	697.50	705.61	705.61	10.45	1249.71	1442.82	487.41	0.0
	75795.000	25.00	0.0	0.0	3300.00	697.50	705.65	705.65	10.33	1248.88	1442.87	494.12	0.03
	78430												
AE	77800.000	2004.00	0.0	0.0	2550.00	704.80	711.28	0.0	3.88	1021.			

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
	800.30												
	79.400	1600.00	0.0	0.0	2200.00	707.80	713.21	0.0	5.15	1044.43	1429.55	864.90	0.0
	79.480	1600.00	0.0	0.0	2200.00	707.80	714.18	0.0	5.94	1199.95	1367.75	631.82	0.97
AF	81630												
	81008.000	1600.00	0.0	0.0	2200.00	710.70	718.51	718.51	10.04	1106.88	1288.49	407.96	0.0
	81009.000	1600.00	0.0	0.0	2200.00	710.70	719.30	0.0	11.66	1211.87	1281.10	274.43	0.79
	83470												
	82840.000	1840.00	0.0	0.0	2100.00	715.50	725.95	0.0	5.90	1064.80	1342.17	703.85	0.0
	82849.000	1840.00	0.0	0.0	2100.00	715.50	727.22	0.0	5.89	1147.75	1273.00	558.62	1.27
	83770												
	83148.000	300.00	0.0	0.0	2100.00	717.70	726.09	0.0	10.72	1400.00	1427.00	195.98	0.0
	83140.000	300.00	0.0	0.0	2100.00	717.70	727.51	0.0	8.96	1400.00	1427.00	234.33	1.42
	83791												
	83161.000	21.00	729.90	728.10	2100.00	717.70	726.09	0.0	10.71	1400.00	1427.00	196.01	0.0
	83161.000	21.00	999999.00	0.0	2100.00	717.70	727.51	0.0	8.96	1400.00	1427.00	234.39	1.42
	84091												
AG	83461.000	300.00	0.0	0.0	2100.00	719.90	729.49	0.0	8.79	1069.40	1325.23	473.53	0.0
	83461.000	300.00	0.0	0.0	2100.00	719.90	730.00	730.00	11.32	1193.27	1288.41	274.63	0.51
	86130												
AH	85375.000	1914.00	0.0	0.0	1350.00	727.80	734.44	0.0	3.40	1029.34	1317.92	859.65	0.0
	85375.000	1914.00	0.0	0.0	1650.00	727.80	735.18	0.0	2.96	1070.00	1270.00	882.45	0.75
	87980												
AI	87225.000	1850.00	0.0	0.0	1190.00	735.10	741.07	741.07	9.13	1057.54	1303.23	284.90	0.0
	87225.000	1850.00	0.0	0.0	1190.00	735.10	741.12	741.12	9.09	1100.00	1250.00	236.60	0.05
	90845												
AT	90490.000	2865.00	0.0	0.0	1090.00	752.70	755.56	0.0	2.75	1000.00	1337.37	553.75	0.0
	90490.000	2865.00	0.0	0.0	1090.00	752.70	756.56	0.0	3.78	1186.69	1362.43	408.05	1.00
	90895												
	90140.000	50.00	0.0	0.0	1090.00	753.30	755.62	0.0	2.95	1074.86	1416.03	367.69	0.0
	90148.000	50.00	0.0	0.0	1090.00	753.30	756.57	0.0	3.69	1275.96	1448.97	259.37	0.95
	90966												
	90211.000	71.00	763.80	760.30	1090.00	753.30	755.62	0.0	2.96	1074.87	1416.03	367.23	0.0
	90211.000	71.00	763.80	760.30	1090.00	753.30	756.62	0.0	1.28	1069.77	1460.32	706.00	1.00
	91016												
AK	90261.000	50.00	0.0	0.0	1090.00	752.70	755.80	0.0	2.40	1000.00	1382.64	637.04	0.0
	90261.000	50.00	0.0	0.0	1090.00	752.70	756.80	0.0	3.21	1177.88	1362.88	481.34	1.00

SUMMARY OF ERRORS

CAUTION SECNO=69677.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=73475.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO=73475.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=73475.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=73475.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO=73475.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=73475.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION	SECNO=	75.771	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	75.771	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	75.771	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	75.771	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	75.771	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	75.771	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION	SECNO=	75796.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	75796.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	75796.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	75796.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	75796.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	75796.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION	SECNO=	81000.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	31000.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY

CAUTION	SECNO=	83461.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	83461.000	PROFILE=	2	MINIMUM SPECIFIC ENERGY

CAUTION	SECNO=	87225.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	87225.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	87225.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	87225.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	87225.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	87225.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
AA-69711 69161.000	439.	3710.	1.0	692.6	691.6	1.0
AB-69723.000	86.	425.	8.8	692.0	691.7	0.3
69623.000	455.	3567.	1.0	693.2	691.7	1.5
69677.000	551.	6306.	0.6	696.9	695.4	1.5
69727.000	380.	6803.	0.5	696.9	695.4	1.5
AB-75475.000	369.	633.	5.4	698.1	697.3	0.8
AC-75485.000	161.	855.	3.9	705.1	704.3	0.8
75630.000	72.	423.	7.8	704.9	703.7	1.2
75721.000	70.	401.	8.2	704.6	703.8	0.8
75746	192.	512.	6.4	705.2	705.0	0.2
75771	192.	476.	6.9	705.3	705.3	0.0
AD-75795.000	194.	494.	6.7	705.6	705.6	0.0
AE-77000.000	213.	937.	2.7	711.9	711.3	0.6
77040	168.	632.	3.5	714.2	713.2	1.0
AF-81430.000	69.	274.	8.0	719.3	718.5	0.8
82840.000	125.	559.	3.8	727.3	726.0	1.3
83140.000	27.	234.	9.0	727.5	726.1	1.4
83161.000	27.	234.	9.0	727.5	726.1	1.4
AG-83161.000	95.	275.	7.6	730.0	729.5	0.5
AH-85128.000	200.	882.	1.9	735.1	734.4	0.7
AI-87288.000	150.	237.	5.0	741.2	741.1	0.1
AJ-88850.000	176.	400.	2.7	756.6	755.6	1.0
90140.000	149.	259.	4.2	756.6	755.6	1.0
90211.000	370.	706.	1.5	756.6	755.6	1.0
AK-90261.000	185.	481.	2.3	756.8	755.8	1.0

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EJ