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

T1 SPENCER-ROWAN CO. BASIN E STRM 95 SPRING HILL BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS 0 WSEL FQ
 -1. 2. 0. 0. 0.016000 0.0 0.0 0. 648.500 0.0

J2 NPRGF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIN 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

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

-10.000 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
 QT 5.000 212.000 408.000 516.000 789.000 516.000 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0

X1 40.000 15.000 1207.000 1226.000 40.000 40.000 40.000 0.0 0.0 0.0
 GR 665.600 1000.000 654.900 1170.000 651.000 1132.000 648.200 1200.000 648.400 1207.000
 GR 645.400 1215.000 643.500 1216.500 645.300 1218.000 647.900 1226.000 648.400 1304.000
 GR 649.700 1318.000 652.800 1380.000 657.700 1400.000 664.300 1500.000 665.600 1518.000

X1 90.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.200 0.0
 NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 140.000 30.000 1790.300 1800.800 50.000 50.000 50.000 0.0 0.0 0.0
 GR 664.300 1000.000 661.400 1100.000 659.300 1200.000 656.800 1300.000 655.300 1400.000
 GR 654.000 1500.000 651.800 1600.000 649.800 1700.000 649.600 1757.000 648.700 1779.000
 GR 648.900 1786.000 645.800 1790.300 644.300 1791.000 644.000 1792.000 644.300 1793.000
 GR 645.800 1793.000 645.600 1797.300 644.100 1798.000 643.800 1799.000 644.100 1800.000
 GR 645.600 1800.000 648.400 1805.000 649.100 1844.000 648.900 1900.000 649.500 1952.000
 GR 649.600 1955.000 650.800 2000.000 653.700 2050.000 657.500 2100.000 655.900 2183.000
 SB 0.900 1.500 2.500 0.0 7.000 0.010 38.500 0.0 0.0 0.0

X1 182.000 0.0 0.0 0.0 42.000 42.000 42.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 647.500 648.900 0.0 0.0 0.0 0.0 0.0
 BT 25.000 1000.000 664.300 0.0 1100.000 661.400 0.0 1200.000 659.300 0.0
 BT 1300.000 656.900 0.0 1400.000 655.300 0.0 1500.000 654.000 0.0 1600.000

MADE IN U.S.A.

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BT	651.800	0.0	1700.000	649.800	0.0	1790.300	649.400	645.800	1791.000	649.400
BT	647.200	1792.000	649.400	647.500	1793.000	649.400	647.200	1793.200	649.400	645.800
BT	1797.300	649.400	645.600	1798.000	649.400	647.000	1799.000	649.400	647.300	1800.000
BT	649.400	647.000	1800.800	649.400	645.600	1900.000	648.900	0.0	1952.000	649.500
BT	0.0	1955.000	649.600	0.0	2000.000	650.800	0.0	2050.000	653.700	0.0
BT	2100.000	657.500	0.0	2183.000	665.900	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	232.000	15.000	1207.000	1226.000	50.000	50.000	50.000	0.0	1.000	0.0
GR	665.600	1000.000	654.900	1100.000	651.000	1152.000	648.200	1200.000	648.400	1207.000
GR	645.400	1215.000	643.500	1216.500	645.300	1218.000	647.900	1226.000	648.400	1304.000
GR	649.700	1318.000	652.800	1380.000	657.700	1400.000	664.300	1500.000	665.600	1518.000

X1	282.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
QT	5.000	211.000	407.000	515.000	788.000	515.000	0.0	0.0	0.0	0.0

X1	350.000	13.000	1083.000	1264.000	68.000	68.000	68.000	0.0	-0.800	0.0
GR	680.100	1000.000	672.300	1050.000	668.100	1074.000	667.400	1083.000	659.300	1089.000
GR	652.500	1112.000	650.800	1150.000	655.600	1213.000	662.800	1257.000	665.900	1264.000
GR	668.600	1300.000	675.000	1400.000	680.100	1467.000	0.0	0.0	0.0	0.0

X1	430.000	0.0	0.0	0.0	80.000	80.000	80.000	0.0	0.800	0.0
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X1	450.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.200	0.0
SB	0.900	1.500	2.500	0.0	0.100	0.010	0.100	0.0	0.0	0.0

X1	460.000	0.0	0.0	0.0	10.000	10.000	10.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	0.0	659.300	0.0	0.0	0.0	0.0	0.0
BT	14.000	1000.000	680.100	0.0	1050.000	672.300	0.0	1074.000	668.100	0.0
BT	1083.000	667.400	0.0	1089.000	659.300	0.0	1092.000	662.500	0.0	1100.000
BT	661.400	0.0	1150.000	662.100	0.0	1200.000	662.500	0.0	1257.000	662.800
BT	0.0	1264.000	665.900	0.0	1300.000	668.600	0.0	1400.000	675.000	0.0
BT	1467.000	680.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	480.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.400	0.0
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X1	560.000	0.0	0.0	0.0	80.000	80.000	80.000	0.0	0.800	0.0
QT	5.000	200.000	431.000	489.000	747.000	489.000	0.0	0.0	0.0	0.0

X1	1520.000	10.000	1043.000	1051.000	960.000	960.000	960.000	0.0	-4.800	0.0
GR	692.200	1000.000	677.500	1025.000	676.100	1043.000	673.300	1044.000	673.300	1050.000
GR	675.800	1051.000	677.200	1100.000	677.700	1115.000	691.500	1200.000	693.200	1212.000

X1	1570.000	0.0	0.0	0.0	50.000	50.000	50.000	0.500	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

X1	1620.000	22.000	1234.000	1238.000	50.000	50.000	50.000	0.0	0.0	0.0
GK	678.600	1000.000	697.400	1050.000	695.800	1100.000	693.400	1150.000	638.300	1189.000
GR	673.600	1214.000	672.200	1232.000	671.400	1234.000	669.700	1235.000	669.400	1236.000
GR	669.700	1237.000	671.400	1238.000	671.500	1240.000	673.300	1289.000	673.800	1304.000
GR	687.600	1389.000	689.300	1401.000	692.400	1450.000	694.700	1500.000	696.300	1550.000
GK	698.300	1600.000	698.600	1613.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.600	0.0	0.0	0.0

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X1	1717.000	0.0	0.0	0.0	97.000	97.000	97.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	673.400	688.200	0.0	0.0	0.0	0.0	0.0
BT	19.000	1000.000	698.600	0.0	1050.000	697.400	0.0	1160.000	695.800	0.0
BT	1150.000	693.400	0.0	1200.000	690.600	0.0	1234.000	689.400	671.400	1235.000
BT	689.400	673.100	1236.000	689.400	673.400	1237.000	689.400	673.100	1238.000	689.400
BT	671.900	1250.000	688.900	0.0	1300.000	688.600	0.0	1350.000	689.200	0.0
BT	1400.000	690.700	0.0	1450.000	692.400	0.0	1500.000	694.700	0.0	1550.000
BT	696.300	0.0	1600.000	698.000	0.0	1613.000	698.600	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	1767.000	10.000	1043.000	1051.000	50.000	50.000	50.000	0.0	-0.400	0.0
GR	692.200	1000.000	677.500	1025.000	675.100	1043.000	673.300	1044.000	673.300	1050.000
GR	675.800	1051.000	677.200	1100.000	677.700	1115.000	691.500	1200.000	693.200	1212.000

X1	1817.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
QT	5.000	139.000	274.000	353.000	554.000	353.000	0.0	0.0	0.0	0.0

X1	2520.000	13.000	1158.000	1147.000	703.000	703.000	703.000	0.0	0.0	0.0
GR	714.300	1000.000	697.800	1100.000	695.100	1114.000	694.800	1138.000	690.100	1140.000
GR	690.000	1142.000	690.200	1144.000	694.800	1147.000	695.700	1198.000	696.000	1200.000
GR	704.100	1250.000	709.600	1269.000	712.300	1300.000	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 9S SPRING HILL BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES H-G JOB NO. 6918
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.016000	0.0	0.0	0.	649.500	0.0

J2	NPROF	IPLCT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 9S SPRING HILL BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIUSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	YDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.016000	0.0	0.0	0.	650.500	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

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN L STRM 9S SPRING HILL BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6913
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT.	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.016000	0.0	0.0	0.	651.500	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CPNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CR1WS	VCH	SSTA	ENOST	AREA	DIFWSP
* 40,000	40.00	0.0	0.0	212.00	643.50	648.14	648.14	6.22	1207.68	1264.16	38.23	0.0
* 40,000	40.00	0.0	0.0	408.00	643.50	648.84	648.84	6.28	1184.38	1308.77	110.69	0.70
* A 40,000	40.00	0.0	0.0	516.00	643.50	649.01	649.01	6.82	1180.25	1310.60	132.36	0.17
* 40,000	40.00	0.0	0.0	789.00	643.50	649.38	649.38	7.17	1171.32	1314.56	182.66	0.37
90,000	50.00	0.0	0.0	212.00	643.70	648.87	0.0	3.84	1188.48	1306.96	90.23	0.0
90,000	50.00	0.0	0.0	408.00	643.70	649.35	0.0	4.76	1176.67	1312.19	151.97	0.49
90,000	50.00	0.0	0.0	516.00	643.70	649.57	0.0	5.09	1171.41	1314.52	182.13	0.22
90,000	50.00	0.0	0.0	789.00	643.70	650.00	0.0	5.82	1161.04	1320.09	246.52	0.43
140,000	50.00	0.0	0.0	212.00	643.80	648.94	0.0	3.93	1773.29	1982.91	67.48	0.0
140,000	50.00	0.0	0.0	408.00	643.80	649.46	0.0	4.83	1750.28	1948.99	147.52	0.52
140,000	50.00	0.0	0.0	516.00	643.80	649.75	0.0	4.51	1712.77	1960.82	208.18	0.29
140,000	50.00	0.0	0.0	789.00	643.80	650.27	0.0	4.09	1676.36	1980.23	353.51	0.52
182,000	42.00	648.90	647.50	212.00	643.80	649.30	0.0	2.97	1764.39	1934.43	117.36	0.0
182,000	42.00	648.90	647.50	408.00	643.80	649.75	0.0	3.59	1714.42	1960.60	206.73	0.45
182,000	42.00	648.90	647.50	516.00	643.80	649.94	0.0	3.70	1692.82	1967.89	258.23	0.19
182,000	42.00	648.90	647.50	789.00	643.80	650.40	0.0	3.65	1670.19	1984.86	391.67	0.45
* 232,000	50.00	0.0	0.0	212.00	644.50	649.13	649.13	6.30	1207.73	1261.38	37.25	0.0
* 232,000	50.00	0.0	0.0	408.00	644.50	649.84	649.84	6.29	1184.42	1308.76	110.50	0.71
* 232,000	50.00	0.0	0.0	516.00	644.50	650.02	650.02	6.79	1180.11	1310.67	153.13	0.18
* 232,000	50.00	0.0	0.0	789.00	644.50	650.37	650.37	7.82	1171.54	1314.47	181.40	0.35
282,000	50.00	0.0	0.0	212.00	644.70	649.87	0.0	3.83	1188.38	1307.00	90.68	0.0
282,000	50.00	0.0	0.0	408.00	644.70	650.36	0.0	4.76	1176.65	1312.20	152.06	0.48
B 282,000	50.00	0.0	0.0	516.00	644.70	650.57	0.0	5.11	1171.49	1314.49	181.67	0.21
282,000	50.00	0.0	0.0	789.00	644.70	651.00	0.0	5.81	1160.94	1320.17	247.15	0.43
* 350,000	68.00	0.0	0.0	211.00	650.00	651.52	651.52	5.00	1116.02	1171.54	42.21	0.0
* 350,000	68.00	0.0	0.0	407.00	650.00	651.95	651.95	5.88	1111.14	1177.70	69.18	0.43
* C 350,000	68.00	0.0	0.0	515.00	650.00	652.15	652.15	6.25	1110.48	1180.45	82.42	0.19
* 350,000	68.00	0.0	0.0	788.00	650.00	652.57	652.57	6.97	1109.07	1186.36	113.14	0.42
430,000	80.00	0.0	0.0	211.00	650.80	652.63	0.0	3.44	1111.55	1175.99	61.26	0.0
430,000	80.00	0.0	0.0	407.00	650.80	653.11	0.0	4.34	1109.95	1182.69	93.73	0.48
430,000	80.00	0.0	0.0	515.00	650.80	653.32	0.0	4.70	1109.23	1185.70	109.57	0.21
430,000	80.00	0.0	0.0	788.00	650.80	653.77	0.0	5.40	1107.70	1192.08	145.82	0.45

MADE IN U.S.A.

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SECRD	XLCH	ELYRD	ELLC	R	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
450.000	20.00	0.0	0.0	211.00	651.00	652.77	0.0	3.72	1111.79	1174.97	56.68	0.0
450.000	20.00	0.0	0.0	407.00	651.00	653.25	0.0	4.55	1110.15	1181.84	89.37	0.48
450.000	20.00	0.0	0.0	515.00	651.00	653.46	0.0	4.93	1109.46	1184.75	104.47	0.21
450.000	20.00	0.0	0.0	788.00	651.00	653.91	0.0	5.59	1107.90	1191.28	141.03	0.45
460.000	10.00	659.30	0.0	211.00	651.00	662.73	0.0	0.16	1086.60	1255.56	1335.15	0.0
460.000	10.00	659.30	0.0	407.00	651.00	663.11	0.0	0.29	1086.32	1257.26	1400.09	0.38
460.000	10.00	659.30	0.0	515.00	651.00	663.29	0.0	0.36	1086.19	1257.65	1429.43	0.17
460.000	10.00	659.30	0.0	788.00	651.00	663.66	0.0	0.53	1085.91	1258.51	1494.95	0.38
480.000	20.00	0.0	0.0	211.00	651.40	662.73	0.0	0.17	1086.90	1253.40	1267.99	0.0
480.000	20.00	0.0	0.0	407.00	651.40	663.11	0.0	0.31	1086.62	1255.46	1331.85	0.38
480.000	20.00	0.0	0.0	515.00	651.40	663.29	0.0	0.38	1086.49	1256.38	1360.75	0.17
480.000	20.00	0.0	0.0	788.00	651.40	663.66	0.0	0.55	1086.21	1257.60	1425.33	0.38
560.000	80.00	0.0	0.0	211.00	652.20	662.73	0.0	0.19	1087.49	1249.06	1136.80	0.0
560.000	80.00	0.0	0.0	407.00	652.20	663.11	0.0	0.34	1087.21	1251.13	1198.82	0.38
D 560.000	80.00	0.0	0.0	515.00	652.20	663.29	0.0	0.42	1087.08	1252.05	1226.84	0.17
560.000	80.00	0.0	0.0	788.00	652.20	663.66	0.0	0.61	1086.80	1254.10	1289.83	0.38
* 1520.000	960.00	0.0	0.0	200.00	668.50	671.98	671.98	6.75	1034.31	1085.17	44.78	0.0
* 1520.000	960.00	0.0	0.0	431.00	668.50	672.88	672.88	7.37	1024.69	1114.50	109.84	0.91
* E 1520.000	960.00	0.0	0.0	489.00	668.50	672.99	672.99	7.70	1024.50	1115.57	119.77	0.11
* 1520.000	960.00	0.0	0.0	747.00	668.50	673.33	673.33	9.32	1023.93	1117.63	150.63	0.33
* 1570.000	50.00	0.0	0.0	200.00	668.50	672.67	672.67	7.32	1012.69	1054.06	45.73	0.0
* 1570.000	50.00	0.0	0.0	431.00	668.50	673.36	673.36	9.12	1011.94	1058.93	77.01	0.69
* 1570.000	50.00	0.0	0.0	489.00	668.50	673.49	673.49	9.78	1011.83	1059.32	83.10	0.13
* F 1570.000	50.00	0.0	0.0	747.00	668.50	673.94	673.94	11.09	1011.45	1050.70	104.70	0.45
1620.000	50.00	0.0	0.0	200.00	669.40	673.26	0.0	5.60	1218.33	1287.71	58.79	0.0
1620.000	50.00	0.0	0.0	431.00	669.40	674.11	0.0	4.73	1213.13	1305.93	130.81	0.45
F 1620.000	50.00	0.0	0.0	489.00	669.40	674.28	0.0	4.65	1212.64	1306.98	146.74	0.17
1620.000	50.00	0.0	0.0	747.00	669.40	674.97	0.0	4.45	1211.66	1311.23	213.53	0.68
1717.000	97.00	688.20	673.40	200.00	669.40	679.13	0.0	0.30	1204.60	1336.83	695.22	0.0
G 1717.000	97.00	688.20	673.40	431.00	669.40	689.38	0.0	0.17	1180.72	1402.31	2469.07	10.25
1717.000	97.00	688.20	673.40	489.00	669.40	689.56	0.0	0.19	1179.34	1405.16	2509.44	0.18
1717.000	97.00	688.20	673.40	747.00	669.40	690.10	0.0	0.28	1175.24	1413.63	2633.82	0.54
1767.000	50.00	0.0	0.0	200.00	672.90	679.12	0.0	1.22	1021.56	1126.22	289.01	0.0
1767.000	50.00	0.0	0.0	431.00	672.90	689.38	0.0	0.38	1004.11	1189.41	1776.38	10.26
1767.000	50.00	0.0	0.0	489.00	672.90	689.56	0.0	0.43	1003.81	1190.52	1809.98	0.18
1767.000	50.00	0.0	0.0	747.00	672.90	690.10	0.0	0.62	1002.90	1193.82	1910.93	0.53
1817.000	50.00	0.0	0.0	200.00	673.30	679.13	0.0	1.44	1022.24	1123.78	248.11	0.0
1817.000	50.00	0.0	0.0	431.00	673.30	689.38	0.0	0.40	1004.79	1186.95	1702.94	10.25
H 1817.000	50.00	0.0	0.0	489.00	673.30	689.56	0.0	0.44	1004.49	1188.05	1735.89	0.18
1817.000	50.00	0.0	0.0	747.00	673.30	690.10	0.0	0.64	1003.58	1191.35	1835.21	0.53
* 2520.000	703.00	0.0	0.0	139.00	690.00	693.01	693.01	8.63	1139.76	1145.83	16.11	0.0
* 2520.000	703.00	0.0	0.0	274.00	690.00	694.41	694.41	10.13	1138.17	1146.74	27.04	1.40
* I 2520.000	703.00	0.0	0.0	353.00	690.00	695.77	695.77	6.97	1110.53	1198.45	86.45	1.36
* 2520.000	703.00	0.0	0.0	554.00	690.00	696.25	696.25	7.77	1108.06	1201.76	129.82	0.48

SUMMARY OF ERRORS

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 3S SOUTHERN RR BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTY'S M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS 0 WSEL FQ
 -1. 2. 0. 0. 0.029000 0.0 0.0 0. 685.200 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 0.0 201.000 0.0 0.0 0.0 0.0 0.0

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

-10.000 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
 OT 5.000 107.000 218.000 284.000 456.000 284.000 0.0 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0

X1 150.000 10.000 1293.000 1304.000 150.000 150.000 150.000 0.0 -6.000 0.0
 GR 701.500 1000.000 699.100 1100.000 693.100 1200.000 687.800 1293.000 685.200 1298.000
 GR 686.200 1299.000 686.200 1300.000 688.200 1304.000 698.100 1400.000 701.500 1448.000

X1 200.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.800 0.0
 NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 250.000 17.000 1348.000 1350.000 50.000 50.000 50.000 0.0 0.0 0.0
 GR 702.400 1000.000 699.100 1084.000 693.600 1200.000 690.700 1250.000 685.400 1343.000
 GR 684.800 1348.000 683.800 1348.000 683.800 1350.000 684.800 1350.000 685.800 1354.000
 GR 688.000 1375.000 688.000 1400.000 689.900 1500.000 691.500 1600.000 696.300 1700.000
 GR 697.400 1750.000 696.700 1800.000 0.0 0.0 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 2.000 0.010 4.000 0.0 0.0 0.0

X1 303.000 0.0 0.0 0.0 53.000 53.000 53.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 685.800 687.900 0.0 0.0 0.0 0.0 0.0
 BT 12.000 1000.000 702.400 0.0 1084.000 699.100 0.0 1200.000 693.600 0.0
 BT 1300.000 689.000 0.0 1348.000 687.900 685.800 1350.000 687.900 685.800 1400.000
 BT 688.000 0.0 1500.000 689.900 0.0 1600.000 691.500 0.0 1700.000 696.300
 BT 0.0 1750.000 697.400 0.0 1800.000 696.700 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

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X1	353.000	10.000	1293.000	1304.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	701.500	1000.000	699.100	1100.000	693.100	1200.000	687.800	1293.000	686.200	1298.000
GR	686.200	1299.000	686.200	1300.000	688.200	1304.000	698.100	1400.000	701.500	1448.000

X1	403.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
QT	5.000	93.000	188.000	246.000	398.000	246.000	0.0	0.0	0.0	0.0

X1	533.000	14.000	492.000	510.000	130.000	130.000	130.000	0.0	0.0	0.0
GR	698.000	300.000	694.000	350.000	694.000	400.000	695.000	450.000	695.000	492.000
GR	694.000	495.000	692.200	497.000	692.000	500.000	692.300	503.000	694.000	505.000
GR	695.000	510.000	695.000	520.000	696.000	550.000	700.000	580.000	0.0	0.0

X1	583.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.900	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	633.000	13.000	2226.200	2227.800	50.000	50.000	50.000	0.0	0.0	0.0
GR	704.300	2000.000	704.300	2191.000	700.300	2206.000	698.900	2221.000	697.400	2226.200
GR	696.400	2226.200	696.400	2227.800	697.400	2227.800	697.700	2235.000	706.400	2290.000
GR	706.700	2300.000	710.200	2400.000	713.200	2472.000	0.0	0.0	0.0	0.0
SB	1.250	2.500	2.500	0.0	1.500	0.010	3.000	0.0	0.0	0.0

X1	817.000	0.0	0.0	0.0	184.000	184.000	184.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	698.400	0.0	0.0	0.0	0.0	0.0	0.0
BT	8.000	2000.000	704.300	0.0	2191.000	704.300	0.0	2200.000	704.300	0.0
BT	2226.200	704.700	698.400	2227.800	704.700	698.400	2300.000	706.700	0.0	2400.000
BT	710.200	0.0	2472.000	713.200	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.045	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	857.000	10.000	1104.000	1118.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	718.300	1000.000	711.000	1056.000	702.100	1089.000	700.700	1104.000	698.200	1109.000
GR	698.200	1110.000	698.400	1111.000	699.500	1118.000	712.800	1200.000	718.300	1265.000

X1	917.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.900	0.0
QT	5.000	67.000	139.000	183.000	301.000	183.000	0.0	0.0	0.0	0.0

X1	1293.000	7.000	1093.000	1097.000	376.000	376.000	376.000	0.0	0.0	0.0
GR	726.700	1000.000	717.100	1050.000	710.000	1093.000	709.100	1095.000	710.800	1097.000
GR	720.300	1100.000	726.700	1156.000	0.0	0.0	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 3S SOUTHERN RR BRANCH
 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	RVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.029000	0.0	0.0	0.	686.200	0.0
J2	NPROF	IPLT	PRFS	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

MADE IN U.S.A.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 3S SOUTHERN RR BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-S JOB NO. 6910
T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.029000	0.0	0.0	0.	687.200	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

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERPOR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 3S SOUTHERN RR BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	YDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	5.	0.	0.	0.029000	0.0	0.0	0.	688.200	0.0

J2	TPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
* 150.000	150.00	0.0	0.0	107.00	680.20	682.43	682.43	6.15	1281.91	1306.25	20.32	0.0
* 150.000	150.00	0.0	0.0	218.00	680.20	683.19	683.19	7.02	1268.67	1313.56	46.43	0.75
* A 150.000	150.00	0.0	0.0	284.00	680.20	683.48	683.48	7.49	1263.58	1316.38	60.61	0.29
* 150.000	150.00	0.0	0.0	456.00	680.20	684.03	684.03	8.50	1253.79	1321.79	94.31	0.56
* 200.000	50.00	0.0	0.0	107.00	681.00	683.23	683.23	6.15	1281.90	1306.25	20.33	0.0
* 200.000	50.00	0.0	0.0	218.00	681.00	683.99	683.99	7.00	1268.61	1313.60	46.60	0.76
* 200.000	50.00	0.0	0.0	284.00	681.00	684.28	684.28	7.45	1263.45	1316.45	61.01	0.29
* 200.000	50.00	0.0	0.0	456.00	681.00	684.85	684.85	8.44	1253.59	1321.90	95.09	0.56
* 250.000	50.00	0.0	0.0	107.00	683.80	686.29	686.29	5.99	1327.43	1350.65	22.90	0.0
* 250.000	50.00	0.0	0.0	218.00	683.80	686.73	686.73	7.00	1319.68	1362.87	39.34	0.44
* B 250.000	50.00	0.0	0.0	284.00	683.80	687.02	687.02	6.70	1314.61	1365.62	52.93	0.29
* 250.000	50.00	0.0	0.0	456.00	683.80	687.42	687.42	7.38	1307.50	1369.49	75.83	0.41
303.000	53.00	687.90	685.80	107.00	683.80	688.48	0.0	0.76	1288.89	1425.45	173.94	0.0
303.000	53.00	687.90	685.80	218.00	683.80	688.85	0.0	1.19	1282.39	1444.95	229.36	0.37
C 303.000	53.00	687.90	685.80	284.00	683.80	689.00	0.0	1.39	1279.75	1452.87	254.62	0.16
303.000	53.00	687.90	685.80	456.00	683.80	689.32	0.0	1.82	1274.23	1469.42	312.52	0.31
* 353.000	50.00	0.0	0.0	107.00	686.20	688.44	688.44	6.11	1281.79	1306.31	20.48	0.0
* 353.000	50.00	0.0	0.0	218.00	686.20	689.18	689.18	7.03	1268.71	1313.54	46.33	0.75
* 353.000	50.00	0.0	0.0	284.00	686.20	689.48	689.48	7.49	1263.56	1316.39	60.65	0.29
* 353.000	50.00	0.0	0.0	456.00	686.20	690.03	690.03	8.50	1253.78	1321.79	94.32	0.56
* 403.000	50.00	0.0	0.0	107.00	687.00	689.23	689.23	6.15	1281.91	1306.25	20.32	0.0
* 403.000	50.00	0.0	0.0	218.00	687.00	689.99	689.99	7.00	1268.60	1313.60	46.31	0.76
* D 403.000	50.00	0.0	0.0	284.00	687.00	690.28	690.28	7.45	1263.42	1316.46	61.08	0.30
* 403.000	50.00	0.0	0.0	456.00	687.00	690.85	690.85	8.44	1253.57	1321.91	95.14	0.56
* 533.000	130.00	0.0	0.0	93.00	692.00	694.28	694.28	4.35	346.51	506.40	34.24	0.0
* 533.000	130.00	0.0	0.0	188.00	692.00	694.58	694.58	5.44	342.77	507.88	61.05	0.30
* E 533.000	130.00	0.0	0.0	246.00	692.00	694.75	694.75	5.49	340.64	508.74	79.41	0.17
* 533.000	130.00	0.0	0.0	398.00	692.00	694.96	694.96	6.65	338.01	509.80	104.74	0.21
* 583.000	50.00	0.0	0.0	93.00	692.90	695.16	695.16	4.45	346.69	506.32	33.12	0.0
* 583.000	50.00	0.0	0.0	188.00	692.90	695.50	695.50	5.21	342.45	508.02	63.88	0.34
* 583.000	50.00	0.0	0.0	246.00	692.90	695.60	695.60	5.90	341.26	508.50	73.94	0.09
* 583.000	50.00	0.0	0.0	398.00	692.90	695.89	695.89	6.38	337.61	509.95	108.83	0.29

MADE IN U.S.A.

SECNO	XLCH	FLTRD	ELLC	D	ELMIN	CASEL	CRISU	VCH	SSTA	ENDST	AREA	DIFMSP
* 633.000	50.00	0.0	0.0	93.00	696.40	698.66	698.66	5.85	2221.03	2241.07	17.20	0.0
* 633.000	50.00	0.0	0.0	188.00	696.40	699.26	699.26	6.17	2217.12	2244.88	51.11	0.60
* 633.000	50.00	0.0	0.0	246.00	696.40	699.52	699.52	6.39	2214.33	2246.52	58.92	0.26
* 633.000	50.00	0.0	0.0	398.00	696.40	700.05	700.05	6.88	2209.72	2249.83	58.10	0.52
817.000	184.00	704.30	698.40	93.00	696.40	704.53	0.0	0.23	2000.00	2278.17	394.87	0.0
817.000	184.00	704.30	698.40	188.00	696.40	704.73	0.0	0.43	2000.00	2279.49	453.07	0.21
817.000	184.00	704.30	698.40	246.00	696.40	704.84	0.0	0.54	2000.00	2280.14	481.83	0.10
817.000	184.00	704.30	698.40	398.00	696.40	705.05	0.0	0.80	2000.00	2281.54	544.30	0.22
867.000	50.00	0.0	0.0	93.00	698.20	704.53	0.0	0.64	1080.01	1140.98	212.80	0.0
867.000	50.00	0.0	0.0	188.00	698.20	704.73	0.0	1.21	1079.26	1150.23	226.72	0.20
867.000	50.00	0.0	0.0	246.00	698.20	704.82	0.0	1.54	1078.90	1150.83	233.63	0.10
867.000	50.00	0.0	0.0	398.00	698.20	705.02	0.0	2.36	1078.15	1152.07	248.32	0.20
917.000	50.00	0.0	0.0	93.00	699.10	704.53	0.0	0.86	1083.34	1143.44	134.59	0.0
917.000	50.00	0.0	0.0	188.00	699.10	704.73	0.0	1.61	1082.58	1144.70	157.08	0.20
917.000	50.00	0.0	0.0	246.00	699.10	704.83	0.0	2.04	1082.21	1145.31	173.27	0.10
917.000	50.00	0.0	0.0	398.00	699.10	705.03	0.0	3.08	1081.44	1146.60	186.64	0.20
* 1293.000	376.00	0.0	0.0	67.00	709.10	711.43	711.43	6.77	1084.37	1097.20	12.91	0.0
* 1293.000	376.00	0.0	0.0	139.00	709.10	712.14	712.14	0.15	1080.04	1097.42	23.70	0.71
* 1293.000	376.00	0.0	0.9	183.00	709.10	712.46	712.46	8.78	1078.11	1097.52	29.59	0.32
* 1293.000	376.00	0.0	0.0	301.00	709.10	713.13	713.13	10.02	1074.03	1097.74	44.11	0.67

SUMMARY OF ERRORS

CAUTION SECNO= 150.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 150.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 150.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 150.000 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 200.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 200.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 200.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 200.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 200.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 200.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 200.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 200.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 200.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 200.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 200.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 250.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 250.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 250.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 250.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 250.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 250.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 250.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 250.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 250.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 250.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 250.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 250.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL