
HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SALISBURY-ROWAN CO. STREAM 9SAL PARK AVENUE BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK ICG NINV IDIR STRT METRIC HVINS Q WSEL FQ
 -1. 2. 0. 0. 0.017000 0.0 0.0 0. 689.400 0.0

J2 NPHOF IPLOT PRFVS XSECV XSECH FN ALLDC IRW 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*****

-10.900 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

MC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0
ST	5.000	167.000	332.000	426.000	666.000	426.000	0.0	0.0	0.0	0.0	0.0
CT	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	0.0

X1	200.000	25.000	1731.000	1741.000	200.000	200.000	200.000	0.0	0.0	0.0
GR	684.900	1000.000	685.500	1100.000	685.600	1200.000	686.400	1300.000	686.000	1400.000
GR	598.500	1500.000	689.700	1600.000	688.400	1700.000	687.300	1731.000	684.500	1733.000
GR	694.400	1736.000	684.500	1739.000	688.200	1741.000	688.700	1800.000	690.200	1900.000
GR	689.800	2000.000	691.100	2100.000	692.500	2200.000	693.700	2300.000	692.500	2400.000
GR	695.200	2500.000	700.300	2565.000	701.000	2600.000	702.500	2700.000	703.400	2800.000
GT	5.000	166.300	619.000	620.000	653.000	420.000	0.0	0.0	0.0	0.0

X1	913.000	19.000	1249.000	1260.000	713.000	713.000	713.000	0.0	0.0	0.0
GR	698.500	1000.000	698.700	1065.000	697.100	1080.000	698.600	1092.000	697.400	1100.000
GR	697.900	1200.000	697.200	1224.000	691.300	1249.000	689.600	1252.000	689.600	1255.000
GR	698.900	1258.000	691.200	1260.000	696.800	1291.000	698.200	1294.000	696.700	1300.000
GR	699.300	1362.000	701.300	1387.000	701.300	1400.000	704.600	1420.000	0.0	0.0

X1	983.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
MC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1013.000	18.000	1589.500	1594.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	691.900	1000.000	691.900	1014.000	692.600	1100.000	695.100	1200.000	697.200	1300.000
GR	697.900	1400.000	697.300	1500.000	696.400	1567.000	692.800	1583.000	692.800	1589.500
GR	691.000	1590.200	690.300	1592.000	691.000	1593.800	692.800	1594.500	696.800	1622.000

GR	697.100	1650.000	699.800	1700.000	704.500	1777.000	0.0	0.0	0.0	0.0
SP	0.900	1.500	2.500	0.0	5.000	0.010	19.630	0.0	0.0	0.0
X1	1087.000	0.0	0.0	0.0	74.000	74.000	74.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	695.300	0.0	0.0	0.0	0.0	0.0	0.0
BT	18.000	1000.000	695.300	0.0	1014.000	695.300	0.0	1100.000	695.300	0.0
BT	1200.000	695.300	0.0	1300.000	697.200	0.0	1400.000	697.900	0.0	1500.000
BT	697.300	0.0	1583.000	696.300	0.0	1589.500	696.300	692.800	1590.200	696.300
BT	694.600	1592.000	696.300	695.300	1593.800	696.300	694.600	1594.500	696.300	692.800
BT	1600.000	696.300	0.0	1609.000	696.700	0.0	1650.000	697.100	0.0	1700.000
BT	699.800	0.0	1777.000	704.500	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	1137.000	19.000	1249.000	1260.000	50.000	50.000	50.000	0.0	3.800	0.0
GR	698.500	1000.000	696.700	1065.000	697.100	1080.000	698.600	1092.000	697.400	1100.000
GR	697.900	1200.000	697.200	1224.000	691.300	1249.000	689.600	1252.000	689.600	1255.000
GR	688.900	1258.000	691.200	1260.000	696.800	1291.000	698.200	1294.000	696.700	1300.000
GR	699.300	1362.000	701.300	1387.000	701.300	1400.000	704.600	1420.000	0.0	0.0

X1	1187.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	3.000	0.0
BT	5.000	135.600	270.000	349.000	551.000	349.000	0.0	0.0	0.0	0.0

X1	2200.000	12.000	1412.000	1422.000	1013.000	1013.000	1013.000	0.0	0.0	0.0
GR	731.700	1000.000	728.800	1100.000	725.000	1200.000	720.500	1300.000	718.000	1400.000
GR	715.800	1412.000	711.500	1417.000	715.700	1422.000	717.100	1500.000	720.000	1600.000
GR	724.300	1700.000	729.000	1800.000	0.0	0.0	0.0	0.0	0.0	0.0
LJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 MODIFICATION - 50,51,52

T1 SALISBURY-ROWAN CO. STREAM 95AL
 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	FR
	-10.	4.	0.	0.	0.017000	0.0	0.0	0.	692.400	0.0
J2	NPROF	IPLOT	PREVS	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

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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	CRWS	VCH	SSTA	ENDST	AREA	OIFWSP
A 200.000	200.00	0.0	0.0	167.00	684.40	685.70	0.0	5.30	1000.00	1739.65	73.26	0.0
200.000	200.00	0.0	0.0	426.00	684.40	686.02	0.0	5.96	1000.00	1739.82	150.69	0.32
913.000	713.00	0.0	0.0	166.00	688.90	692.34	0.0	5.68	1244.59	1266.32	33.65	0.0
913.000	713.00	0.0	0.0	420.00	688.90	693.57	693.36	8.47	1239.38	1273.12	67.75	1.23
B 963.000	50.00	0.0	0.0	166.00	688.90	692.75	0.0	4.70	1242.85	1268.58	43.36	0.0
963.000	50.00	0.0	0.0	420.00	688.90	694.31	0.0	6.47	1236.23	1277.24	95.55	1.56
C 1013.000	50.00	0.0	0.0	166.00	690.30	693.12	0.0	1.98	1000.00	1596.72	111.05	0.0
1013.000	50.00	0.0	0.0	420.00	690.30	694.87	0.0	1.11	1000.00	1608.77	428.17	1.75
D 1087.000	74.00	695.30	695.30	166.00	690.30	693.12	0.0	1.95	1000.00	1596.73	111.06	0.0
1087.000	74.00	695.30	695.30	420.00	690.30	694.67	0.0	1.11	1000.00	1603.77	428.12	1.75
* 1137.000	50.00	0.0	0.0	166.00	692.70	695.59	695.59	7.56	1246.93	1263.26	23.14	0.0
* 1137.000	50.00	0.0	0.0	420.00	692.70	697.17	697.17	9.16	1240.23	1272.01	61.20	1.58
* E 1187.000	50.00	0.0	0.0	166.00	695.70	698.59	698.59	7.55	1246.92	1263.27	23.19	0.0
1187.000	50.00	0.0	0.0	420.00	695.70	700.16	700.16	9.20	1240.26	1271.95	60.80	1.57
F 2200.000	1013.00	0.0	0.0	135.00	711.50	715.41	0.0	7.52	1412.46	1421.65	17.95	0.0
* 2200.000	1013.00	0.0	0.0	349.00	711.50	717.08	717.08	7.05	1405.01	1498.98	92.22	1.68

SUMMARY OF ERRORS

CAUTION SECNO= 1137.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 1137.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 1137.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 1137.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 1137.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 1137.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
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 CAUTION SECNO= 1187.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 1187.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1187.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2200.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 2200.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

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		
		100	20	0.20
200.000	0.	685.7	686.0	0.0
313.000	713.	687.0	688.3	994.7
963.000	783.	****	****	****
1013.000	913.	0.0	2.5	****
1087.000	987.	693.1	694.9	0.0
1137.000	937.	629.5	531.2	522.9
1187.000	987.	****	****	****
2200.000	2000.	715.4	717.1	0.0
WEIGHTED AVG FOR REACH		****	****	****

FHF FOR THE REACH = 005 WITH 0.00 OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = A 1

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG. ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		100	10	DIFF.			
	0.						
1	100.	686.2	0.0	685.8	685.8	005	100.
2	200.	687.1	1.1	686.0	685.9	005	100.
3	300.	688.0	1.9	686.2	686.0	005	100.
4	400.	689.0	2.6	686.4	686.1	005	100.
5	500.	689.9	3.3	686.5	686.2	005	100.
6	600.	690.8	4.1	686.7	686.3	005	100.
7	700.	691.8	4.9	686.9	686.4	005	71.
	713.				SEC.	913.000	
	783.				SEC.	963.000	
8	800.	689.9	41.0	-138.5	583.3	005	0.
	913.				SEC.	1013.000	
	987.				SEC.	1087.000	
9	900.	693.4	21.0	671.2	593.1	005	0.
	937.				SEC.	1137.000	
	987.				SEC.	1187.000	
10	1000.	698.7	1260.4	-561.7	477.6	005	0.
11	1100.	699.6	1182.7	-490.0	389.6	005	0.
12	1200.	701.3	1064.8	-363.2	326.9	005	0.
13	1300.	703.0	939.2	-236.3	283.6	005	0.
14	1400.	704.6	814.0	-109.4	255.5	005	0.
15	1500.	706.3	638.6	17.5	239.7	005	0.
16	1600.	707.9	563.5	144.4	233.7	005	0.
17	1700.	709.6	458.3	271.3	235.9	005	0.
18	1800.	711.3	513.1	398.2	244.9	005	0.

19. 1900. 712.9 187.8 525.1 259.7 005 0.
2000. SEC. 2200.000

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 6 19
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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