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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 FAITH-RWAN COUNTY BASIN 6 STREAM 6-3F UNNAMED STREAM  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINQ	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	2.	0.	0.	0.046000	0.0	0.0	0.	725.600	0.0
J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CRNIM	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	NUNSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	0.0	0.0	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

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T1 FAITH-ROAN COUNTY BASIN G STREAM 6-3F UNNAMED STREAM  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
 T3 100-YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NIMV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.046000	0.0	0.0	0.	728.600	0.0

J2	NPROF	IPLGT	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

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 ERROR CORR - 01  
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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	DIFWSP
* A 800.000	800.00	0.0	0.0	601.00	720.60	722.77	722.77	8.83	1170.70	1285.72	112.84	0.0
* A 800.000	800.00	0.0	0.0	1298.00	720.60	723.51	723.51	10.67	1160.67	1288.88	198.58	0.74
∩ 2850.000	2050.00	0.0	0.0	577.00	732.00	735.63	0.0	4.72	1279.69	1415.81	232.88	0.0
∩ 2850.000	2050.00	0.0	0.0	1236.00	732.00	736.81	0.0	5.83	1253.24	1434.05	420.77	1.19
* 2900.000	50.00	0.0	0.0	577.00	733.50	737.35	737.35	7.87	1293.66	1436.04	119.35	0.0
* 2900.000	50.00	0.0	0.0	1236.00	733.50	737.92	737.92	8.49	1280.51	1444.90	207.57	0.58
2948.000	48.00	742.00	739.50	577.00	733.50	737.35	0.0	7.84	1293.62	1436.07	119.63	0.0
2948.000	48.00	742.00	739.50	1236.00	733.50	737.52	0.0	8.47	1280.45	1444.94	208.01	0.58
∩ 2998.000	50.00	0.0	0.0	577.00	735.00	737.77	737.77	8.14	1298.91	1402.55	129.59	0.0
∩ 2998.000	50.00	0.0	0.0	1236.00	735.00	738.59	738.59	10.29	1280.45	1415.29	228.31	0.83
∩ 5348.000	2350.00	0.0	0.0	459.00	755.90	760.68	760.68	7.32	1267.53	1366.54	106.42	0.0
∩ 5348.000	2350.00	0.0	0.0	1014.00	755.90	761.61	761.59	9.16	1228.67	1387.06	226.44	0.93
BOWMAN CO ↑ 5850 FAITH CORP. LIMITS FAITH CORP. ↓												
* A 6298.000	950.00	0.0	0.0	315.00	763.30	766.07	767.86	7.77	1046.54	1080.40	46.63	0.0
* A 6298.000	950.00	0.0	0.0	732.00	763.30	769.49	769.49	9.49	1034.15	1095.65	118.63	1.42
* B 6848.000	550.00	0.0	0.0	235.00	774.30	778.26	778.26	7.99	1150.33	1168.25	29.97	0.0
* B 6848.000	550.00	0.0	0.0	561.00	774.30	779.95	779.95	8.90	1133.13	1182.73	82.36	1.69
6898.000	50.00	0.0	0.0	235.00	775.20	778.80	0.0	8.16	1140.80	1162.88	30.45	0.0
* 6898.000	50.00	0.0	0.0	561.00	775.20	780.70	780.70	8.79	1129.65	1175.49	81.44	1.90
6954.000	66.00	786.10	779.20	235.00	775.20	780.69	0.0	3.70	1129.72	1175.38	81.10	0.0
* 6954.000	66.00	786.10	779.20	561.00	775.20	787.20	0.0	0.82	1061.22	1270.48	909.74	6.51
∩ 7014.000	50.00	0.0	0.0	235.00	776.10	780.43	0.0	6.65	1146.52	1169.03	37.51	0.0
∩ 7014.000	50.00	0.0	0.0	561.00	776.10	787.20	0.0	1.48	1076.14	1262.26	723.17	6.76
* D 8950.000	1936.00	0.0	0.0	143.00	850.70	851.99	851.99	4.64	1223.10	1270.94	30.84	0.0
* D 8950.000	1936.00	0.0	0.0	357.00	850.70	852.56	852.56	5.54	1204.44	1273.58	64.43	0.57

SUMMARY OF ERRORS

CAUTION SECNO= 800,000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 800,000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2900,000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 2900,000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 2900,000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 2900,000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 2900,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 2900,000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2998,000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 2998,000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 2998,000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 2998,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 2998,000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 5348,000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5348,000 PROFILE= 1 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 6299,000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6298,000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 6848,000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6848,000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6848,000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6848,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6848,000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6898,000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6898,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6898,000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6964,000 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 8950,000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 8950,000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 8950,000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 8950,000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 8950,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 8950,000 PROFILE= 2 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		
		10'	2'	0.2'
800.000	0.	722.8	723.5	0.0
2850.000	2050.	726.8	728.0	****
2900.000	2100.	****	****	****
2948.000	2148.	1.7	2.3	****
2998.000	2198.	737.6	738.6	0.0
5348.000	4548.	183.7	184.6	156.5
6298.000	5498.	****	****	****
6848.000	6048.	36.3	37.9	-2.5
6898.000	6098.	771.0	772.9	****
6964.000	6164.	****	****	****
7014.000	6214.	42.7	49.4	0.0
8950.000	8150.	852.0	852.6	****

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
		10'	1'	DIFF.			
	0.						200.000
1	135.	723.2	0.3	722.9	722.9	005	100.
2	270.	724.0	0.9	723.2	723.0	005	100.
3	405.	724.9	1.5	723.4	723.2	005	100.
4	540.	725.7	2.0	723.7	723.3	005	100.
5	675.	726.6	2.6	724.0	723.4	005	60.
6	810.	727.4	3.2	724.2	723.6	005	57.
7	945.	728.3	3.8	724.5	723.7	005	43.
8	1080.	729.1	4.4	724.8	723.8	005	50.
9	1215.	730.0	4.9	725.0	724.0	005	36.
10	1350.	730.8	5.5	725.3	724.1	005	40.
11	1485.	731.7	6.1	725.6	724.2	005	27.
12	1620.	732.5	6.7	725.8	724.4	005	33.
13	1755.	733.4	7.3	726.1	724.5	005	23.
14	1890.	734.2	7.9	726.3	724.6	005	29.
15	2025.	735.0	8.0	726.6	724.6	005	20.
	2050.					SEC.	2850.000
	2100.					SEC.	2900.000
	2148.					SEC.	2948.000
16	2160.	737.4	647.4	90.0	685.1	005	0.
	2198.					SEC.	2998.000

17	2295.	738.1	291.4	446.6	671.1	005	0.
18	2430.	739.4	40.4	699.0	672.6	005	0.
19	2565.	740.7	73.5	667.1	672.3	005	0.
20	2700.	742.0	106.7	635.3	670.5	005	0.
21	2835.	743.3	139.8	603.5	667.3	005	5.
22	2970.	744.6	173.0	571.7	662.9	005	0.
23	3105.	746.0	206.1	539.8	657.6	005	0.
24	3240.	747.3	239.3	508.0	651.3	005	0.
25	3375.	748.6	272.4	476.2	644.3	005	0.
26	3510.	749.9	305.6	444.3	636.6	005	0.
27	3645.	751.2	338.7	412.5	628.3	005	0.
28	3780.	752.5	371.9	380.7	619.5	005	0.
29	3915.	753.8	405.0	348.8	610.2	005	0.
30	4050.	755.2	438.2	317.0	600.4	005	0.
31	4185.	756.5	471.3	285.2	590.2	005	0.
32	4320.	757.8	504.4	253.4	579.7	005	0.
33	4455.	759.1	537.6	221.5	568.8	005	0.
	4548.				SEC.	5348.000	
34	4590.	760.4	584.6	175.8	557.3	005	0.
35	4725.	761.5	676.0	85.5	543.8	005	0.
36	4860.	762.6	798.1	-35.5	527.7	005	0.
37	4995.	763.6	920.2	-156.5	509.2	005	0.
38	5130.	764.7	1042.2	-277.6	488.5	005	0.
39	5265.	765.7	1164.3	-398.6	465.9	005	0.
40	5400.	766.8	1286.4	-519.6	441.1	005	0.
	5498.				SEC.	6198.000	
41	5535.	768.0	1368.4	-600.3	415.7	005	0.
42	5670.	770.0	1504.2	-634.2	393.1	005	0.
43	5805.	772.5	1133.8	-361.3	375.6	005	0.
44	5940.	775.0	963.5	-198.5	362.8	005	0.
	6048.				SEC.	6848.000	
45	6075.	777.4	611.9	168.5	358.4	005	0.
	6098.				SEC.	6898.000	
	6164.				SEC.	6964.000	
46	6210.	780.6	1953.3	*****	325.0	005	0.
	6214.				SEC.	7014.000	
47	6345.	782.9	803.2	-20.4	317.6	005	0.
48	6480.	787.0	662.1	125.6	313.6	005	0.
49	6615.	792.8	610.7	182.1	310.9	005	0.
50	6750.	797.7	559.2	238.5	309.5	005	0.
51	6885.	802.7	507.8	295.0	309.2	005	0.
52	7020.	807.7	456.3	351.4	310.0	005	0.
53	7155.	812.7	404.9	407.6	311.9	005	0.
54	7290.	817.7	353.4	464.8	314.7	005	0.
55	7425.	822.7	302.0	520.7	318.4	005	0.
56	7560.	827.7	250.6	577.1	323.1	005	0.
57	7695.	832.7	199.1	633.6	328.5	005	0.
58	7830.	837.7	147.7	690.0	334.7	005	0.
59	7965.	842.7	96.2	746.4	341.7	005	0.
60	8100.	847.6	44.8	802.9	349.4	005	0.
	8150.				SEC.	8950.000	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS  
INPUT 202 WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END  
OF EACH REACH BY INC NO. FOR EXAMPLE 202 4 60  
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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HEG2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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