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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50.51.52  
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Prof. 1

1000-10-14-4

total

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

500 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
✓100.000	100.00	0.0	0.0	12500.00	621.60	624.00	0.0	4.31	127.00	2758.47	4120.40	0.0
✓2300.000	2200.00	0.0	0.0	12400.00	620.70	630.04	0.0	3.26	41.52	1068.28	6091.29	0.0
✓5700.000	3400.00	0.0	0.0	12000.00	622.60	635.27	0.0	5.37	85.29	880.40	4193.78	0.0
✓8000.000	2300.00	0.0	0.0	11700.00	625.50	640.88	0.0	6.02	111.29	693.68	3372.84	0.0
✓9580.000	1570.00	0.0	0.0	11300.00	629.30	644.25	0.0	5.07	93.04	1055.71	4372.48	0.0
✓11150.000	1570.00	0.0	0.0	11300.00	634.00	648.80	0.0	10.11	5.20	144.62	1279.08	0.0
✓11234.000	84.00	0.0	0.0	11300.00	635.50	649.51	0.0	12.07	119.67	840.81	2027.95	0.0
* /11266.000	32.00	651.20	648.60	11300.00	635.50	649.50	0.0	12.10	119.87	840.81	2021.82	0.0
✓11350.000	84.00	0.0	0.0	11100.00	636.60	649.88	649.88	16.63	12.58	174.31	1058.96	0.0
<del>13500.000</del>	2150.00	0.0	0.0	10800.00	641.50	658.34	0.0	4.31	174.23	878.22	4761.94	0.0
<del>14800.000</del>	1300.00	0.0	0.0	10500.00	646.00	659.79	0.0	4.56	20.60	490.21	3614.69	0.0
<del>16200.000</del>	2180.00	0.0	0.0	10300.00	652.40	665.91	665.28	11.65	100.54	433.44	1473.52	0.0
* 17069.000	89.00	0.0	0.0	10300.00	653.50	668.90	668.90	12.92	133.09	591.43	1519.82	0.0
17092.000	23.00	665.40	663.40	10300.00	653.50	669.20	0.0	12.13	127.82	602.86	1663.90	0.0
17180.000	88.00	0.0	0.0	10300.00	655.40	671.09	0.0	4.85	35.26	597.95	3799.73	0.0
19125.000	1945.00	0.0	0.0	9750.00	659.41	672.72	0.0	3.07	59.72	889.62	5149.97	0.0
19150.000	25.00	0.0	0.0	9750.00	659.41	672.73	0.0	3.06	59.58	890.30	5167.43	0.0
19175.000	25.00	0.0	0.0	9750.00	659.41	672.75	0.0	3.06	59.53	890.50	5172.50	0.0
19225.000	50.00	0.0	0.0	9750.00	659.41	672.78	0.0	2.59	59.35	891.38	5195.04	0.0
19325.000	100.00	0.0	0.0	9750.00	659.41	672.84	0.0	2.56	58.92	893.37	5245.69	0.0

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
20125.000	800.00	0.0	0.0	10000.00	659.81	673.59	0.0	5.29	249.70	815.86	2567.13	0.0
21125.000	1000.00	0.0	0.0	10000.00	666.81	677.50	0.0	6.39	208.90	790.15	2377.64	0.0
<del>22125.000</del>	1000.00	0.0	0.0	10000.00	669.31	680.81	0.0	5.61	130.03	663.97	2859.54	0.0
<del>23000.000</del>	500.00	0.0	0.0	10000.00	672.61	682.54	0.0	9.50	115.33	775.39	1938.77	0.0
23085.000	675.00	0.0	0.0	10000.00	674.36	688.11	0.0	9.67	126.27	474.33	1654.71	0.0

SUMMARY OF ERRORS

CAUTION SECNO=11266.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=11350.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO=11350.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=11350.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=17069.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO=17069.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=17069.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

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HEC2 RELEASE DATED NOV 76 (UPDATED FEB 1977)  
ERROR CORR - 01  
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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
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T1 ROWAN COUNTY BASIN F TOWN CREEK  
 T2 FLOODPLAIN STUDIES ROWAN AND DAVIDSON COUNTIES M-G JOB NO. 206918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	NTW	TDIR	STRT	METRIC	HVINS	Q	WSEL	FG	
	-1.	2.	0.	0.	0.0	0.0	0.0	0.	730.300	0.0	
J2	PROP	IPLOT	PREVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE	
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
J3	VARIABLE CONES 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	0.0	0.0	0.0	0.0	0.0	0.0	
NC	0.010	0.010	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
BT	1.000	5350.000	0.0	0.0	0.0	0.0	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	43100.000	15.000	500.000	520.000	43100.000	43100.000	43100.000	43100.000	0.0	-2.194	0.0
SR	740.000	0.0	730.000	210.000	726.000	275.000	725.600	330.000	726.000	375.000	
GR	726.100	480.000	725.500	500.000	721.500	502.000	721.500	518.000	725.500	520.000	
GF	726.000	600.000	725.600	640.000	726.000	660.000	728.000	700.000	740.000	800.000	
NC	0.090	0.090	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
X1	43575.000	0.0	0.0	0.0	475.000	475.000	475.000	475.000	0.0	0.0	0.0
NC	0.090	0.090	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
X1	45200.000	15.000	442.000	460.000	1625.000	1625.000	1625.000	1625.000	0.0	0.0	0.0
SR	735.500	0.0	728.400	132.000	727.200	185.000	726.100	275.000	726.600	348.000	
GR	726.100	367.000	726.700	442.000	722.300	445.000	723.000	448.000	723.300	457.000	
GF	726.800	460.000	730.600	505.000	735.500	550.000	0.0	0.0	0.0	0.0	
BT	1.000	5300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
X1	46450.000	15.000	633.000	455.000	1450.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
SR	748.100	0.0	737.200	110.000	732.600	175.000	730.500	240.000	729.200	305.000	
GR	729.000	430.000	729.500	453.000	726.500	440.000	726.000	445.000	726.500	454.000	
GF	729.500	455.000	729.200	660.000	730.400	682.000	740.000	736.000	748.100	755.000	
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
X1	48100.000	20.000	430.000	450.000	1450.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
SR	746.000	0.0	742.000	103.000	735.200	136.000	733.000	175.000	732.200	360.000	

GR	733.500	425.000	732.200	430.000	728.300	432.000	727.700	440.000	728.000	447.000
GR	733.500	450.000	733.000	460.000	733.500	530.000	732.500	560.000	732.500	660.000
GR	733.200	700.000	735.800	775.000	737.800	825.000	737.800	840.000	746.000	945.000
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	1.000	5300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	49700.000	16.000	570.000	600.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
GR	749.500	0.0	746.700	130.000	743.800	140.000	738.500	285.000	736.500	340.000
GR	726.300	500.000	736.800	555.000	735.200	570.000	732.000	574.000	730.500	585.000
GR	736.500	590.000	736.500	600.000	735.800	635.000	737.500	695.000	740.600	735.000
GR	749.500	900.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	1.000	5200.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	49785.000	24.000	856.000	895.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	755.800	0.0	749.700	205.000	748.500	315.000	746.200	410.000	743.600	615.000
GR	743.600	700.000	745.200	855.000	735.200	856.000	730.200	870.000	730.200	890.000
GR	734.500	955.000	745.200	996.000	747.000	995.000	756.000	1255.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	39.000	0.100	381.000	0.0	0.0	0.0

X1	49415.000	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	741.200	745.200	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	735.800	0.0	205.000	749.700	0.0	315.000	748.500	0.0
BT	410.000	746.200	0.0	615.000	743.600	0.0	700.000	743.600	0.0	856.000
BT	745.200	741.100	835.000	745.200	741.200	995.000	747.000	0.0	1255.000	756.000
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	49900.000	17.000	415.000	465.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	746.000	0.0	743.200	65.000	739.300	105.000	737.500	175.000	736.500	300.000
GR	737.100	360.000	737.000	380.000	731.400	384.000	731.000	396.000	736.400	405.000
GR	736.400	415.000	727.200	435.000	737.000	465.000	737.400	485.000	739.600	620.000
GK	735.000	635.000	746.000	650.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	51350.000	15.000	520.000	540.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
GR	751.000	0.0	743.600	138.000	737.500	325.000	738.200	415.000	737.300	425.000
GP	737.700	520.000	732.000	522.000	732.900	538.000	736.500	540.000	737.000	546.000
GP	737.600	605.000	737.500	710.000	739.800	725.000	742.500	775.000	751.000	875.000
NC	0.095	0.095	0.070	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	1.000	5200.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	519.600	0.0	0.0	0.0	610.000	610.000	610.000	0.0	2.300	0.0
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X1	525.800	0.0	0.0	0.0	620.000	620.000	620.000	0.0	2.300	0.0
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X1	53200.000	15.000	332.000	360.000	620.000	620.000	620.000	0.0	0.0	0.0
GR	739.000	0.0	750.500	125.000	748.100	135.000	746.300	150.000	745.000	250.000
GR	743.200	320.000	743.300	332.000	739.500	342.000	739.000	350.000	739.600	356.000
GR	742.100	360.000	746.400	380.000	751.400	435.000	751.500	465.000	755.000	515.000
BT	1.000	5100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	53235.000	11.000	450.000	533.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	743.000	0.0	759.700	75.000	751.600	355.000	751.600	458.000	746.500	458.000
GR	740.600	482.000	740.300	518.000	746.300	533.000	751.800	533.000	753.300	636.000
GR	743.000	930.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.500	2.500	0.0	75.000	1.000	599.000	0.0	0.0	0.0



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 HEC2 RELEASE DATED NOV 75 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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*100-10-14-4  
 228 Profile*

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

500 YEAR FLOOD WATER SUR  
 SUMMARY PRINTOUT

SECH0	XLCH	ELTR0	ELLC	Q	ELMIN	CWSEL	CRIMS	VCH	SSTA	ENDST	AREA	DIFWSP
43100.000	43100.00	0.0	0.0	5350.00	719.31	730.30	0.0	0.33	157.63	737.45	3294.27	0.0
43575.000	475.00	0.0	0.0	5350.00	719.31	730.32	0.0	2.68	157.38	737.55	3300.99	0.0
45200.000	1625.00	0.0	0.0	5350.00	722.30	732.29	0.0	3.96	59.64	520.54	2206.48	0.0
46550.000	1450.00	0.0	0.0	5300.00	726.00	734.85	0.0	3.14	143.22	707.03	2766.10	0.0
46100.000	1450.00	0.0	0.0	5300.00	727.70	737.22	0.0	3.59	126.21	810.44	2783.28	0.0
<del>46100.000</del>	1450.00	0.0	0.0	5300.00	730.50	740.91	0.0	4.70	228.25	740.68	2003.34	0.0
* 49785.000	85.00	0.0	0.0	5200.00	730.20	739.54	739.54	16.31	855.57	895.47	320.72	0.0
49815.000	30.00	745.20	741.20	5200.00	730.20	740.75	0.0	14.19	855.44	895.59	369.55	0.0
49900.000	85.00	0.0	0.0	5200.00	727.20	744.25	0.0	2.27	40.63	647.61	4102.98	0.0
51350.000	1450.00	0.0	0.0	5200.00	732.00	744.90	0.0	2.28	113.69	803.27	4054.78	0.0
519.600	610.00	0.0	0.0	5200.00	734.30	745.38	0.0	3.22	153.86	781.85	2851.17	0.0
525.300	620.00	0.0	0.0	5200.00	736.60	746.64	0.0	4.30	186.06	766.33	2215.76	0.0
<del>525.300</del>	620.00	0.0	0.0	5200.00	739.00	749.19	0.0	7.50	130.42	410.80	1208.29	0.0
53285.000	85.00	0.0	0.0	5100.00	740.30	749.43	0.0	9.17	458.00	533.00	556.23	0.0
53315.000	30.00	751.80	750.80	5100.00	740.30	749.52	0.0	9.06	458.00	533.00	562.94	0.0
53400.000	85.00	0.0	0.0	5100.00	730.50	751.10	0.0	3.32	59.74	476.84	2426.17	0.0
54700.000	1300.00	0.0	0.0	5050.00	740.60	752.47	0.0	2.39	48.23	670.72	3253.49	0.0
56600.000	1000.00	0.0	0.0	5000.00	746.30	754.26	0.0	2.63	163.60	927.65	2647.01	0.0

SUMMARY OF ERRORS



CAUTION SECNO=49785.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=49785.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=49785.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

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T1 TOWN CREEK THIRD PORTION WITH M-G SURVEY  
 T2 FLOODPLAIN STUDIES OF ROWAN COUNTY  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INS	MINV	TDIP	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.0	0.0	0.0	0.	751.300	0.0
J2	MPROF	IFLOT	PREVS	XSECV	XSECU	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	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.075	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	5.000	1630.000	2284.000	2611.000	5000.000	2611.000	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	56600.000	23.000	628.000	755.000	56600.000	56600.000	56600.000	0.0	0.0	0.0
GR	763.100	0.0	761.500	135.000	757.100	155.000	750.500	175.000	754.500	238.000
GR	757.100	248.000	754.300	317.000	754.500	365.000	751.600	502.000	751.400	534.000
GR	746.600	628.000	746.300	734.000	746.500	755.000	746.400	792.000	746.400	814.000
GR	753.500	840.000	747.500	842.000	747.000	845.000	747.500	855.000	751.500	857.000
GR	751.500	892.000	754.600	932.000	763.500	975.000	0.0	0.0	0.0	0.0
X2	583.750	0.0	0.0	0.0	1775.000	1775.000	1775.000	0.0	0.350	0.0
NC	0.095	0.095	0.075	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	5.000	1560.000	2225.000	2600.000	5000.000	2600.000	0.0	0.0	0.0	0.0
X1	50150.000	13.000	665.000	693.000	1775.000	1775.000	1775.000	0.0	0.0	0.0
GR	756.000	0.0	752.200	255.000	741.700	412.000	759.000	525.000	759.500	650.000
GR	759.000	665.000	756.800	480.000	755.500	683.000	735.500	690.000	738.800	693.000
GR	750.000	730.000	759.000	832.000	766.000	845.000	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.075	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	50240.000	12.000	1200.000	1315.000	90.000	90.000	90.000	0.0	0.0	0.0
GR	779.000	0.0	775.500	90.000	771.200	260.000	766.000	645.000	763.600	1000.000
GR	765.000	1209.000	756.200	1290.000	756.200	1310.000	758.600	1315.000	765.500	1316.000
GR	766.900	1415.000	779.000	1560.000	0.0	0.0	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	25.000	0.100	187.000	0.0	0.0	0.0



GR	788.000	930.000	786.100	983.000	789.300	1053.000	780.000	1189.000	780.800	1189.000
SR	775.700	1191.000	773.100	1191.000	773.100	1201.000	774.000	1261.000	780.000	1203.000
GR	781.900	1263.000	786.000	1363.000	788.500	1375.000	788.400	1400.000	790.900	1500.000
GR	795.960	1600.000	802.000	1700.000	807.200	1794.000	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	13.000	0.010	100.000	0.0	0.0	0.0

6650

X1	46190.000	0.0	0.0	0.0	80.000	30.000	80.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	783.100	788.400	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	801.600	0.0	1100.000	797.600	0.0	1190.900	792.600	0.0
BT	1191.000	792.600	783.100	1201.000	792.600	783.100	1201.100	792.600	0.0	1300.000
BT	788.700	0.0	1400.000	788.400	0.0	1500.000	790.900	0.0	1600.000	795.900
BT	0.0	1700.000	802.000	0.0	1794.000	807.200	0.0	0.0	0.0	0.0

X1	66290.000	11.000	1222.000	1240.000	100.000	100.000	100.000	0.0	5.800	0.0
GR	783.200	1000.000	777.400	1100.000	777.100	1200.000	777.700	1222.000	780.800	1231.000
GR	770.200	1233.000	770.800	1238.000	777.100	1240.000	779.000	1300.000	783.100	1400.000
GR	793.300	1550.000	0.0	0.0	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

80

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 TOWN CREEK  
 T2 ROWAN COUNTY  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.0	0.0	0.0	0.	752.300	0.0
J2	NPROF	IPLUT	PRFVS	YSECV	XSECH	FN	ALLOC	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 CERV= 0.300  
 \*SECNO 56600.000

3265 DIVIDED FLOW

SECNO	DEPTH	CWSFL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	VCH	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
56600.00	6.00	752.30	0.0	752.30	752.34	0.04	0.0	0.0	746.60
2284.	342.	1345.	597.	378.	723.	480.	0.	0.	748.50
0.0	0.91	1.86	1.24	0.095	0.075	0.095	0.0	746.30	169.55
0.000368	56600.	56600.	56600.	0	0	0	0.0	462.40	902.32

\*SECNO 583.750

3265 DIVIDED FLOW

583.75	6.81	753.46	0.0	0.	753.49	0.03	1.15	0.00	746.95
2284.	412.	1271.	601.	555.	826.	601.	73.	20.	748.85
0.39	0.74	1.54	1.00	0.095	0.075	0.095	0.075	746.65	167.10
0.000498	1775.	1775.	1775.	2	0	0	0.0	529.32	912.74

CCHV= 0.100 CERV= 0.300  
 \*SECNO 60150.000

3301 HV CHANGED MORE THAN HVYUS

SECNO	DEPTH	CWSFL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	VCH	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

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

T1 TOWN CREEK  
 T2 ROWAN COUNTY  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.0	0.0	0.0	0.	752.700	0.0
J2	NPROF	IPL0T	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 56600.000

3265 DIVIDED FLOW

SECNO	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOS	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XL0BL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
56600.00	6.40	752.70	0.0	752.70	752.74	0.04	0.0	0.0	746.60
2611.	431.	1495.	685.	460.	774.	539.	0.	0.	748.50
0.0	0.94	1.93	1.27	0.095	0.075	0.095	0.0	746.30	168.33
0.000856	56600.	56600.	56600.	0	0	0	0.0	495.58	907.49

\*SECNO 583.750

3265 DIVIDED FLOW

583.75	7.21	753.86	0.0	0.0	753.89	0.03	1.14	0.00	746.95
2611.	510.	1412.	689.	659.	876.	665.	81.	22.	748.85
0.38	0.77	1.81	1.04	0.095	0.075	0.095	0.075	746.65	165.88
0.000504	1775.	1775.	1775.	2	0	0	0.0	562.53	917.91

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 60150.000

3301 HV CHANGED MORE THAN HVINS

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

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 TOWN CREEK  
 T2 ROWAN COUNTY  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IDD	NINV	IDIR	STRT	METRIC	HVINS	9	WSEL	FO
	-10.	5.	0.	0.	0.0	0.0	0.0	0.	754.240	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FM	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 4

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 56600.000

3265 DIVIDED FLOW

SECNO	DEPTH	WSEL	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
56600.00	7.94	754.24	0.0	754.24	754.31	0.07	0.0	0.0	746.60
5000.	1106.	2563.	1331.	876.	969.	787.	0.	0.	748.50
0.0	1.26	2.64	1.69	0.095	0.075	0.095	0.0	746.30	163.67
0.001186	56600.	56600.	56600.	0	0	0	0.0	620.32	927.36

\*SECNO 583.750

3265 DIVIDED FLOW

SECNO	DEPTH	WSEL	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
583.75	9.10	755.75	0.0	0.0	755.79	0.04	1.48	0.00	746.95
5000.	1335.	2337.	1328.	1329.	1116.	992.	124.	27.	748.85
0.31	1.00	2.09	1.34	0.095	0.075	0.095	0.075	746.65	160.17
0.000617	1775.	1775.	1775.	2	0	0	0.0	727.07	935.84

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 60150.000

5301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	WSEL	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

1000-10-14-4  
3rd Profile

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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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	D	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
56600.000	56600.00	0.0	0.0	1630.00	746.30	751.30	0.0	1.71	172.58	856.90	1171.22	0.0
56600.000	56600.00	0.0	0.0	2284.00	746.30	752.30	0.0	1.86	169.55	902.32	1581.04	1.00
56600.000	56600.00	0.0	0.0	2611.00	746.30	752.70	0.0	1.93	168.33	907.49	1772.70	0.40
56600.000	56600.00	0.0	0.0	5000.00	746.30	754.24	0.0	2.64	163.67	927.36	2633.15	1.54
583.750	1775.00	0.0	0.0	1630.00	746.65	752.50	0.0	1.38	170.02	900.32	1510.36	0.0
583.750	1775.00	0.0	0.0	2284.00	746.65	753.46	0.0	1.54	167.10	912.74	1981.26	0.96
583.750	1775.00	0.0	0.0	2611.00	746.65	753.86	0.0	1.61	165.88	917.91	2200.12	0.40
583.750	1775.00	0.0	0.0	5000.00	746.65	755.75	0.0	2.09	160.17	935.84	3437.63	1.29
* 60150.000	1775.00	0.0	0.0	1560.00	755.50	760.40	760.40	7.96	466.49	833.25	383.90	0.0
* 60150.000	1775.00	0.0	0.0	2225.00	755.50	760.73	760.73	8.49	452.67	833.95	507.44	0.33
* 60150.000	1775.00	0.0	0.0	2600.00	755.50	760.86	760.86	8.98	447.32	834.21	556.57	0.13
* 60150.000	1775.00	0.0	0.0	5000.00	755.50	761.59	761.59	17.73	416.59	835.75	852.45	0.73
60240.000	90.00	0.0	0.0	1560.00	756.20	762.34	0.0	10.55	1289.30	1315.54	150.62	0.0
* 60240.000	90.00	0.0	0.0	2225.00	756.20	762.68	762.68	14.23	1289.26	1315.59	159.48	0.34
* 60240.000	90.00	0.0	0.0	2600.00	756.20	763.28	763.28	15.17	1289.20	1315.68	175.33	0.60
* 60240.000	90.00	0.0	0.0	5000.00	756.20	766.25	766.25	9.65	626.27	1369.26	1357.92	2.98
60260.000	20.00	765.00	764.00	1560.00	756.20	762.38	0.0	10.48	1289.30	1315.55	151.63	0.0
* 60260.000	20.00	765.00	764.00	2225.00	756.20	762.82	0.0	13.91	1289.25	1315.61	163.31	0.44
* 60260.000	20.00	765.00	764.00	2600.00	756.20	763.16	0.0	15.41	1289.21	1315.66	172.54	0.35
60260.000	20.00	765.00	764.00	5000.00	756.20	766.37	0.0	9.02	616.89	1378.22	1453.22	3.21
603.050	45.00	0.0	0.0	1560.00	755.35	764.29	0.0	1.26	19.55	589.28	2102.56	0.0
603.050	45.00	0.0	0.0	2225.00	755.35	766.14	0.0	1.09	13.41	598.93	3166.70	1.84
603.050	45.00	0.0	0.0	2600.00	755.35	767.22	0.0	1.02	9.76	604.66	3011.89	1.09
603.050	45.00	0.0	0.0	5000.00	755.35	767.08	0.0	2.01	10.23	603.93	3729.46	-0.14
60350.000	45.00	0.0	0.0	1560.00	756.90	764.31	0.0	2.42	24.64	581.28	1242.38	0.0
60350.000	45.00	0.0	0.0	2225.00	756.90	766.14	0.0	1.62	18.52	590.90	2278.93	1.84
60350.000	45.00	0.0	0.0	2600.00	756.90	767.23	0.0	1.41	14.91	596.57	2903.71	1.08
60350.000	45.00	0.0	0.0	5000.00	756.90	767.11	0.0	2.79	15.31	595.94	2833.76	-0.12
613.000	950.00	0.0	0.0	1500.00	759.10	766.24	0.0	2.70	40.56	579.85	1091.59	0.0
613.000	950.00	0.0	0.0	2100.00	759.10	767.02	0.0	2.62	22.95	583.94	1526.11	0.78
613.000	950.00	0.0	0.0	2400.00	759.10	767.75	0.0	2.14	20.49	587.81	1942.41	0.74
613.000	950.00	0.0	0.0	4600.00	759.10	768.65	0.0	3.06	17.51	592.49	2453.14	0.90



SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
622.500	950.00	0.0	0.0	1500.00	761.30	768.45	0.0	2.66	38.40	579.97	1104.02	0.0
622.500	950.00	0.0	0.0	2180.00	761.30	769.01	0.0	2.88	23.62	582.88	1412.44	0.56
622.500	950.00	0.0	0.0	2400.00	761.30	769.20	0.0	2.92	23.03	583.81	1522.16	0.19
622.500	950.00	0.0	0.0	4600.00	761.30	770.62	0.0	3.28	18.26	591.30	2323.24	1.43
63200.000	950.00	0.0	0.0	1500.00	763.50	770.36	0.0	2.39	1180.43	1433.54	892.72	0.0
63200.000	950.00	0.0	0.0	2180.00	763.50	771.12	0.0	2.80	1166.34	1440.34	1093.20	0.76
63200.000	950.00	0.0	0.0	2400.00	763.50	771.33	0.0	2.92	1162.12	1442.22	1151.79	0.21
63200.000	950.00	0.0	0.0	4600.00	763.50	773.00	0.0	3.85	1131.48	1457.14	1657.59	1.67
65122.000	1922.00	0.0	0.0	1450.00	767.00	775.18	0.0	3.68	1000.00	1495.65	871.94	0.0
65122.000	1922.00	0.0	0.0	2150.00	767.00	775.94	0.0	3.49	1000.00	1513.39	1253.84	0.76
65122.000	1922.00	0.0	0.0	2325.00	767.00	776.13	0.0	3.43	1000.00	1518.03	1349.67	0.19
65122.000	1922.00	0.0	0.0	4600.00	767.00	777.90	0.0	3.43	1000.00	1562.46	2309.61	1.77
65222.000	100.00	0.0	0.0	1450.00	768.00	775.61	0.0	4.59	958.21	1480.32	684.16	0.0
65222.000	100.00	0.0	0.0	2150.00	768.00	776.30	0.0	4.50	943.65	1493.05	1027.42	0.68
65222.000	100.00	0.0	0.0	2325.00	768.00	776.47	0.0	4.49	939.99	1496.68	1122.02	0.17
65222.000	100.00	0.0	0.0	4600.00	768.00	778.15	0.0	3.96	903.89	1538.80	2125.73	1.68
65378.000	156.00	780.20	778.20	1450.00	768.00	775.61	0.0	4.59	958.24	1480.29	683.47	0.0
65378.000	156.00	780.20	778.20	2150.00	768.00	776.30	0.0	4.51	943.66	1493.05	1027.29	0.68
65378.000	156.00	780.20	778.20	2325.00	768.00	776.47	0.0	4.40	939.99	1496.68	1121.92	0.17
65378.000	156.00	780.20	778.20	4600.00	768.00	782.13	0.0	1.36	818.46	1800.00	5359.36	5.67
65478.000	100.00	0.0	0.0	1450.00	769.00	776.42	0.0	6.04	1000.00	1480.79	538.35	0.0
65478.000	100.00	0.0	0.0	2150.00	769.00	776.99	0.0	6.10	1000.00	1492.07	784.04	0.58
65478.000	100.00	0.0	0.0	2325.00	769.00	777.12	0.0	6.09	1000.00	1494.59	845.26	0.13
65478.000	100.00	0.0	0.0	4600.00	769.00	782.16	0.0	1.93	1000.00	1800.00	3849.67	5.04
66010.000	532.00	0.0	0.0	1450.00	770.20	780.35	0.0	2.65	1049.07	1333.01	693.17	0.0
66010.000	532.00	0.0	0.0	2100.00	770.20	780.96	0.0	2.89	1038.57	1347.87	873.54	0.61
66010.000	532.00	0.0	0.0	2300.00	770.20	781.11	0.0	2.99	1036.05	1351.44	919.24	0.15
66010.000	532.00	0.0	0.0	4500.00	770.20	782.72	0.0	3.57	1008.33	1390.65	1480.02	1.61
* 66110.000	100.00	0.0	0.0	1450.00	773.10	781.65	781.65	8.91	1039.76	1255.03	353.65	0.0
* 66110.000	100.00	0.0	0.0	2100.00	773.10	782.12	782.12	10.00	1031.61	1268.38	460.73	0.47
* 66110.000	100.00	0.0	0.0	2300.00	773.10	782.24	782.24	10.30	1029.59	1271.23	488.76	0.12
66110.000	100.00	0.0	0.0	4500.00	773.10	783.10	0.0	13.39	1014.62	1292.42	714.33	0.86
* 66190.000	80.00	788.40	783.10	1450.00	773.10	782.13	0.0	6.86	1031.43	1268.63	463.22	0.0
66190.000	80.00	788.40	783.10	2100.00	773.10	782.12	0.0	9.99	1031.59	1268.41	461.08	-0.01
66190.000	80.00	788.40	783.10	2300.00	773.10	782.24	0.0	10.29	1029.57	1271.27	489.12	0.12
66190.000	80.00	788.40	783.10	4500.00	773.10	791.75	0.0	1.64	930.00	1517.12	4504.70	9.51
* 66290.000	100.00	0.0	0.0	1450.00	776.00	784.47	784.47	8.67	1078.14	1289.50	280.74	0.0
66290.000	100.00	0.0	0.0	2100.00	776.00	785.16	0.0	7.14	1066.29	1308.66	433.36	0.69
66290.000	100.00	0.0	0.0	2300.00	776.00	785.31	0.0	6.99	1063.57	1312.50	471.40	0.15
66290.000	100.00	0.0	0.0	4500.00	776.00	791.77	0.0	1.76	1000.00	1442.18	2837.37	5.45

SUMMARY OF ERRORS

CAUTION SECNO=60150.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60150.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=60150.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=60150.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60150.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=60150.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=60150.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60150.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=60150.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=60150.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60150.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=60150.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=60240.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60240.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=60240.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60240.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=60240.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=60240.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=60240.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=60260.000 PROFILE= 2 HYDRAULIC JUMP D.S.  
CAUTION SECNO=60260.000 PROFILE= 3 HYDRAULIC JUMP D.S.

CAUTION SECNO=66110.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=66110.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=66110.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=66110.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=66110.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=66110.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=66110.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=66110.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=66110.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=66190.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=66290.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=66290.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=66290.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

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



FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
627.50	1.00	328.00	370.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
3474.28	0.00	116.10	879.15

ENCROACHMENT DISTANCE FROM LEFT BANK = 211.90 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 509.15 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
635.50	10760.80	9653.22	1058.96
627.60	2110.77	3575.24	1017.57
626.48	1138.63	2452.73	1001.18
626.45	1125.93	2423.10	987.70
626.10	876.02	2081.08	980.45
626.00	821.43	1984.61	962.26
625.00	284.85	1040.41	937.69
624.50	115.06	588.52	879.01
624.40	89.83	502.14	856.79
624.35	78.41	459.84	843.12
624.00	20.18	189.84	707.14
623.85	15.80	115.30	293.54
623.78	23.75	101.23	115.01
623.75	44.83	98.97	41.92
621.35	1.03	9.71	36.22
620.97	0.07	1.16	9.43
620.72	0.00	0.00	0.00



FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
632.90	1.00	583.00	623.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2427.67	0.00	293.87	745.69

ENCROACHMENT DISTANCE FROM LEFT BANK = 289.13 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 122.69 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
636.00	7102.88	4778.52	833.54
633.50	3260.73	2843.11	731.74
632.65	2431.65	2265.53	644.05
632.43	2210.49	2126.74	634.45
631.00	1033.51	1282.37	561.37
630.00	470.29	763.72	493.30
629.73	364.23	636.38	464.59
629.50	276.98	532.89	449.54
629.40	244.11	489.18	438.67
629.33	223.86	459.37	426.86
629.00	140.41	329.40	374.15
628.75	131.59	256.60	220.89
628.70	134.26	246.54	193.93
628.50	137.10	215.00	133.48
628.10	219.98	101.94	43.26
622.78	0.09	1.50	30.12
622.68	0.00	0.00	0.00





COMPUTED Q AVER SLOPE MANNINGS N ELEVATION  
 CFS FT  
 4964.00 0.001 0.075 639.33

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
638.26	1.00	275.00	297.00

280

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( 0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1983.26	0.00	202.97	578.15

ENCROACHMENT DISTANCE FROM LEFT BANK = 72.03 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 281.15 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
642.60	10916.84	4415.90	665.09
642.50	10655.58	4350.92	664.60
639.25	4815.37	2462.31	527.09
637.50	2862.42	1654.07	425.36
635.85	1221.02	983.06	415.79
635.50	968.15	844.56	402.84
635.00	664.55	656.27	377.04
634.55	448.67	499.87	344.14
634.40	386.09	450.98	333.30
634.26	339.56	407.46	313.55
634.00	277.10	335.80	262.26
633.85	243.58	299.94	239.94
633.75	245.23	279.20	198.56



X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
599.21	638.25	599.66	638.45	600.00	638.60
601.46	638.45	603.41	638.25	608.00	637.78
660.00	637.60	667.12	637.78	685.71	638.25
693.63	638.45	699.56	638.60	703.52	638.70
732.00	639.42	900.00	640.30	906.64	640.47
907.81	640.50	907.81	640.50	985.90	642.50
1032.76	643.70	1093.29	645.25	1105.00	645.55
1125.00	645.25	1139.62	645.55	1220.00	647.20
1291.67	651.60	1292.00	651.62	0.00	0.00

667

COMPUTED Q CFS	AVER SLOPE	MANINGS N	ELEVATION FT
4026.00	0.002	0.075	641.93

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
641.50	1.00	548.00	580.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( -0.00 ) SQ. FT.

2.4

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1983.06	0.00	357.30	764.34

ENCROACHMENT DISTANCE FROM LEFT BANK = 190.70 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 184.34 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
651.62	57200.16	12920.47	1300.45



X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
147.24	650.50	143.00	650.50	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANINGS N	ELEVATION FT
4765.00	0.003	0.075	647.36

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
647.62	1.00	97.00	140.00

111

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1114.37	0.00	33.90	143.24

ENCROACHMENT DISTANCE FROM LEFT BANK = 63.10 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 3.24 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
650.58	7740.14	1531.09	159.79
650.50	7648.87	1519.26	159.53
646.50	3900.21	968.19	137.78
644.00	2295.49	665.83	123.30
641.00	1058.99	369.24	90.18
635.22	10.67	16.78	39.25
634.68	0.18	1.12	19.94
634.65	0.38	0.79	2.76
634.00	0.00	0.00	0.00



MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( -0.00 ) SQ. FT.

*k 425*

UNMODIFIED AREA CONVEYANCE 2434.84  
 PERCENT DIFF OF MODIFICATION 0.00  
 X-VALUE OF L ENCROACH STA 308.64  
 X-VALUE OF R ENCROACH STA 697.78

ENCROACHMENT DISTANCE FROM LEFT BANK = 109.36 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 253.78 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
728.70	112246.55	10225.93	988.16
727.92	100525.06	9469.78	962.20
725.95	74904.39	7664.15	881.51
725.60	71082.47	7360.86	862.00
724.90	64857.79	6780.85	805.56
721.90	36823.10	4547.49	693.55
719.98	22494.87	3276.64	640.14
717.95	11858.91	2087.07	541.51
717.90	11653.79	2060.31	538.22
715.92	4437.27	1082.74	458.63
715.70	3816.45	983.56	452.22
714.48	1371.94	489.59	366.77
714.22	1020.02	398.60	342.18
713.92	706.41	303.51	300.39
713.70	559.51	244.17	247.37
713.10	271.22	128.28	146.64
713.00	637.77	119.60	34.13
711.58	350.93	78.81	29.47
708.34	2.93	3.79	19.58
707.95	0.00	0.00	0.00

TOWN CREEK FLOODWAY





MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( -0.00 ) SQ. FT.

409

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF. OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2563.80	0.00	248.17	629.37

ENCROACHMENT DISTANCE FROM LEFT BANK = 149.83 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 207.37 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
731.90	168648.72	13823.30	1139.94
729.99	129957.99	11694.27	1109.32
725.90	69009.84	7518.74	950.22
721.98	27441.57	4079.45	621.71
721.95	27212.42	4055.08	619.74
719.90	16107.89	2550.65	564.81
717.91	7409.54	1515.25	492.44
717.20	5438.39	1193.29	430.99
715.90	2112.98	660.23	405.24
715.73	1873.04	595.26	374.78
715.50	1556.44	514.46	343.56
715.18	1459.18	424.54	234.13
714.50	781.31	278.96	209.14
714.42	784.29	263.93	181.06
714.32	703.92	246.61	179.70
713.90	542.43	184.67	128.91
713.64	520.73	157.58	92.18
713.35	434.78	134.21	80.89
712.30	229.08	72.80	45.84
711.90	201.00	58.63	32.45
711.56	192.28	50.18	23.52
711.39	172.65	46.70	23.09
709.19	6.62	5.83	16.97
708.69	0.02	0.12	6.07
708.65	0.00	0.00	0.00



MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( 0.00 ) SQ. FT.

235%

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1980.48	0.00	273.04	605.63

ENCROACHMENT DISTANCE FROM LEFT BANK = 56.96 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 240.63 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
731.95	45020.24	8328.82	820.93
731.90	44662.54	8288.08	820.69
727.90	23301.60	5266.85	701.06
725.95	15667.63	3978.59	630.63
725.90	15498.84	3947.37	628.46
724.60	11415.80	3171.54	575.27
721.90	4596.24	1735.14	498.53
721.00	3230.76	1322.15	428.75
719.80	1725.78	851.34	365.38
717.90	260.21	246.26	280.85
717.87	249.11	238.06	275.47
717.40	130.97	134.59	173.69
717.30	113.34	118.49	156.90
717.15	81.14	95.91	152.66
716.70	88.66	55.62	34.24
716.34	98.18	47.22	19.50
712.90	0.66	1.82	10.31
712.70	0.05	0.30	5.01
712.58	0.00	0.00	0.00

TOWN CREEK FLOODWAY



CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
733.90	33620.13	8360.65	073.40
731.90	24005.00	6670.65	823.15
727.90	10046.17	3670.65	682.92
724.40	3378.39	1652.32	476.08
722.30	959.10	729.72	407.95
721.90	668.34	572.65	382.59
721.41	395.90	397.60	337.08
720.62	133.90	176.99	226.57
720.49	101.90	148.33	219.45
720.30	69.47	110.30	185.89
719.90	91.75	67.02	35.24
718.90	38.74	36.94	28.97
718.59	35.59	29.96	19.49
715.23	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X X X X X X X Y X X X X X Y X Y X

TOWN CREEK STA 42350 CROSS SECTION R

DESIRED Q	AVER. SLOPE	MANNINGS N
2774.00	0.0073	0.042

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	737.90	0.00	733.90	12.00	731.92
70.07	731.90	200.00	728.90	211.00	727.91
217.89	727.89	242.00	727.82	293.08	725.90
309.05	721.30	360.93	723.35	387.00	722.37
420.09	721.85	422.00	721.82	422.04	721.40
422.09	720.90	422.11	720.80	422.97	712.40
423.00	712.13	432.00	711.92	435.50	712.13
440.00	712.40	444.44	720.80	444.50	720.90
444.76	721.40	444.98	721.82	445.00	721.85
446.74	721.82	471.05	721.40	500.00	720.90
600.00	720.80	616.67	720.90	700.00	721.40
707.54	721.82	708.08	721.85	717.41	722.37
735.00	723.35	750.00	725.30	820.00	725.90
838.33	727.82	839.00	727.89	839.04	727.91
841.12	728.90	847.41	731.90	847.45	731.92

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
851.61	733.90	860.00	737.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2774.00	0.007	0.082	723.52

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
726.70	1.00	422.00	445.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( 0.00 ) SQ. FT.

*E 432*

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2421.51	0.00	322.18	690.04

ENCROACHMENT DISTANCE FROM LEFT BANK = 99.82 FEET  
ENCROACHMENT DISTANCE FROM RIGHT BANK = 245.04 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
737.90	91074.11	10987.40	881.36
733.90	49382.67	7564.18	868.06
731.92	33009.05	5893.99	851.30
731.90	34442.66	5877.86	793.25
728.90	18479.59	3750.07	656.25
727.91	13801.46	3121.83	642.90
727.89	13809.03	3109.34	635.96
727.82	13857.47	3066.73	611.18
725.90	7295.35	1988.41	541.63



FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
728.60	1.00	552.00	571.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2326.73	0.00	370.50	713.93

ENCROACHMENT DISTANCE FROM LEFT BANK = 181.50 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 142.93 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
737.90	71533.80	10593.75	1155.75
735.90	51131.49	8383.75	1065.53
733.90	36204.37	6413.75	915.47
731.90	22708.88	4673.75	835.37
729.91	12964.96	3140.21	716.55
728.35	9077.82	2198.36	501.51
727.40	6520.16	1745.32	462.71
725.50	2608.20	942.86	392.30
725.10	2187.92	798.94	337.48
722.40	142.24	119.43	175.88
722.11	96.48	79.07	112.30
721.92	115.99	64.48	51.15
721.91	118.95	64.03	48.40
721.84	135.89	61.42	35.73
720.40	60.19	28.40	17.62
718.22	0.67	1.51	9.81
717.91	0.00	0.00	0.00







FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
731.30	1.00	442.00	460.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION CONVEYANCE BY ( 0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1744.01	0.00	192.25	495.26

ENCROACHMENT DISTANCE FROM LEFT BANK = 249.75 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 35.26 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
735.50	9447.56	3007.73	554.58
730.65	2328.41	1468.63	418.77
728.42	621.53	619.55	350.97
727.25	160.41	252.64	284.23
726.40	63.58	135.99	242.13
726.72	50.55	117.20	235.48
726.68	45.33	108.11	226.65
726.17	47.38	45.83	24.82
726.15	53.28	45.45	20.38
723.37	1.29	4.11	13.31
723.00	0.34	1.12	3.86
722.35	0.00	0.00	0.00

TOWN CREEK FLOODWAY



MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE 1967.13  
 PERCENT DIFF OF MODIFICATION 0.00  
 X-VALUE OF L ENCROACH STA 227.48  
 X-VALUE OF R ENCROACH STA 669.52

ENCROACHMENT DISTANCE FROM LEFT BANK = 202.52 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 219.52 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
746.00	36988.15	9815.34	952.12
742.00	20108.53	6343.78	797.67
737.85	6910.67	3214.47	723.63
737.80	6893.47	3179.03	706.49
735.85	3017.07	1870.51	647.95
735.26	2125.95	1497.57	628.30
733.55	373.21	500.04	550.31
733.50	342.14	472.95	545.43
733.20	204.46	324.05	458.80
733.00	136.68	239.75	395.27
732.50	64.25	91.21	109.50
732.20	120.38	72.66	24.18
728.32	2.41	5.80	15.39
728.00	0.37	1.63	10.89
727.70	0.00	0.00	0.00

*2.940*

TOWN CREEK FLOODWAY

X X X X X X Y X X X Y X X X Y X Y Y X

TOWN CREEK STA 49900 CROSS SECTION W

DESIRED Q 2700.00  
 AVER SLOPE 0.0002  
 MANNINGS N 0.030

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	746.00	65.00	743.25	102.44	739.60
105.00	739.35	175.00	737.55	186.90	737.45
228.57	737.10	240.48	737.00	240.48	737.00
300.00	736.50	350.00	737.00	350.00	737.00
360.00	737.10	380.00	737.00	380.36	736.50
380.40	736.45	380.40	736.45	381.44	735.00
384.00	731.44	396.00	731.00	396.73	731.44
402.61	735.00	405.00	736.45	415.00	736.45
418.15	735.00	425.89	731.44	426.85	731.00
435.00	727.25	446.54	731.00	447.89	731.44
458.85	735.00	463.31	736.45	463.31	736.45
463.46	736.50	465.00	737.00	469.44	737.10
485.00	737.45	491.28	737.55	604.30	739.35
620.00	739.60	620.82	739.35	626.68	737.55
627.01	737.45	628.15	737.10	628.48	737.00
628.48	737.00	630.11	736.50	630.27	736.45
630.27	736.45	635.00	735.00	636.98	736.45
636.98	736.45	637.05	736.50	637.73	737.00
637.73	737.00	637.86	737.10	638.34	737.45
638.48	737.55	640.93	739.35	641.27	739.60
646.25	743.25	650.00	746.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2788.00	0.000	0.080	742.28

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
741.25	1.00	415.00	465.00

*435*

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2359.43	0.00	194.71	602.50

ENCROACHMENT DISTANCE FROM LEFT BANK = 220.29 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 137.50 FEET

*212*



COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2772.00	0.003	0.080	740.33

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
742.56	1.00	520.00	546.00

*11*  
*532*

RIGHT ENCROACHMENT STATION IN CHANNEL

STATION IS SET AT BANK

ENCROACHMENT DISTANCE FROM LEFT BANK = 229.87 FEET  
ENCROACHMENT DISTANCE FROM RIGHT BANK = 0.00 FEET



CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
751.00	43381.79	8788.90	882.16
743.68	9832.70	3206.04	657.03
742.55	6823.56	2498.15	609.12
739.85	1895.10	1050.02	476.64
738.25	323.85	344.97	417.46
737.70	92.56	146.03	318.53
737.65	85.07	131.44	277.82
737.55	116.28	112.30	117.31
737.50	143.18	107.73	77.40
737.00	170.46	83.47	31.48
736.50	156.15	72.13	24.93
732.88	4.31	7.18	16.96
732.00	0.00	0.00	0.00





CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
755.00	4935.21	4239.80	524.53
751.60	2544.92	2631.94	430.08
751.55	2515.11	2610.68	428.96
747.70	767.97	1109.18	299.13
744.25	60.86	216.47	225.62
744.00	46.68	167.13	175.91
743.80	47.26	139.27	109.46
743.70	43.13	128.95	103.59
743.45	37.39	106.80	80.10
742.50	31.30	59.80	24.53
739.58	1.31	7.20	14.46
738.55	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X X X X X X X Y X Y X X X X X Y Y X X X X X Y X X X X X X X X X X X X X X X X

TOWN CREEK STA 54700 CROSS SECTION 2

DESIRED Q		AVER SLOPE		MANNINGS N	
2607.00		0.0016		0.080	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
25.00	753.55	26.13	753.50	70.03	751.55
89.17	750.70	93.00	750.53	168.00	748.58
193.56	746.75	209.20	745.63	209.62	745.60
210.88	745.51	211.02	745.50	211.02	745.50
218.00	745.00	270.00	745.50	286.67	745.00
298.33	744.65	300.00	744.60	301.67	744.65
313.33	745.00	330.00	745.50	333.33	745.00
335.67	744.65	336.00	744.60	340.00	744.00
344.37	744.60	344.74	744.65	347.28	745.00
350.93	745.50	350.93	745.50	351.00	745.51
351.04	745.50	351.04	745.50	353.08	745.00
354.51	744.65	354.71	744.60	357.16	744.00
371.00	740.61	377.11	744.00	378.20	744.60
378.29	744.65	378.92	745.00	379.82	745.50
379.82	745.50	379.84	745.51	380.00	745.60
433.00	745.63	433.67	745.60	435.69	745.51
455.92	745.50	435.92	745.50	447.14	745.00

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
455.00	744.65	471.67	745.00	495.48	745.50
495.48	745.50	495.95	745.51	500.24	745.60
501.67	745.63	555.00	746.75	574.06	748.58
594.38	750.53	596.15	750.70	605.00	751.55
620.00	750.70	644.29	751.55	700.00	753.50
700.00	753.55	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2607.00	0.001	0.080	749.16

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
750.95	1.00	351.00	380.00

*1.371*

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF. OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2347.40	0.00	190.07	536.41

ENCROACHMENT DISTANCE FROM LEFT BANK = 160.93 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 156.41 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
753.55	9401.30	3933.41	677.74
753.50	9278.09	3899.68	676.57
751.55	5531.83	2682.76	576.87
750.70	4393.76	2223.24	509.49

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
750.53	4145.58	2137.53	503.88
748.58	1957.26	1252.78	408.45
746.75	537.14	550.51	363.67
745.63	99.78	184.32	294.65
745.60	106.57	176.38	239.12
745.51	88.21	155.41	231.37
745.50	85.30	153.12	230.39
745.00	46.36	73.31	92.81
744.65	46.17	51.06	37.81
744.60	47.34	49.36	33.45
744.00	34.13	33.82	21.24
740.61	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X X X X X X X Y X X X X X Y Y Y Y X

TOWN CREEK STA 56600 CROSS SECTION AA

DESIRED Q		AVER SLOPE		MANNINGS N	
2611.00		0.0030		0.080	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	763.55	0.00	763.50	135.00	761.55
154.86	757.18	155.00	757.15	162.67	754.62
162.79	754.58	162.88	754.55	163.42	754.37
166.06	753.50	171.76	751.62	171.91	751.57
172.06	751.52	172.30	751.44	175.00	750.55
188.91	751.44	190.16	751.52	190.95	751.57
191.73	751.62	221.12	753.50	234.72	754.37
237.53	754.55	238.00	754.58	238.15	754.62
247.88	757.15	243.00	757.18	243.74	757.15
310.86	754.62	311.84	754.58	312.58	754.55
317.00	754.37	365.00	754.55	373.42	754.37
414.10	753.50	502.00	751.62	510.89	751.57
512.78	751.52	534.00	751.44	551.58	750.55
591.07	748.55	610.82	747.55	611.41	747.52
621.68	747.00	628.00	746.68	702.82	746.44
709.06	746.42	734.00	746.34	734.76	746.42
734.95	746.44	737.23	746.68	740.27	747.00

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
745.21	747.52	745.50	747.55	755.00	748.55
772.37	747.55	772.89	747.52	781.92	747.00
787.48	746.68	791.65	746.44	792.00	746.42
814.00	746.44	814.88	746.68	816.06	747.00
817.98	747.52	818.09	747.55	821.77	748.55
829.14	750.55	832.41	751.44	832.71	751.52
832.89	751.57	833.08	751.62	840.00	753.50
840.63	751.62	840.65	751.57	840.66	751.52
840.69	751.44	840.99	750.55	841.66	748.55
841.99	747.55	842.00	747.52	845.00	747.00
854.45	747.52	855.00	747.55	855.50	748.55
856.49	750.55	856.94	751.44	856.98	751.52
857.00	751.57	892.00	751.52	892.65	751.57
893.29	751.62	917.55	753.50	928.77	754.37
931.10	754.55	931.48	754.58	932.00	754.62
944.18	757.15	944.33	757.18	965.37	761.55
974.76	763.50	975.00	763.55	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANINGS N	ELEVATION FT
2611.00	0.003	0.980	751.20

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
752.70	1.00	628.00	755.00

RIGHT ENCROACHMENT STATION IN CHANNEL

STATION IS SET AT BANK

ENCROACHMENT DISTANCE FROM LEFT BANK = 102.85 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 0.00 FEET

*734*



X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1415.00	766.95	1466.14	771.20	1517.88	775.50
1560.00	779.00	0.00	0.00	0.00	0.00

*c. 13.00*

COMPUTED Q CFS	AVER SLOPE	CANNINGS N	ELEVATION FT
2600.00	0.002	0.005	766.75

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

*See  
added  
sheets*

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
763.35	1.00	1290.00	1315.00

RIGHT ENCROACHMENT STATION IN CHANNEL

STATION IS SET AT BANK

ENCROACHMENT DISTANCE FROM LEFT BANK = 0.24 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 0.00 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
779.00	76544.30	17114.30	1575.17
775.50	44199.38	11885.50	1442.85
771.20	16801.36	6222.35	1220.87
766.95	2905.00	1880.08	851.81
766.05	1506.88	1185.65	720.41
765.56	991.89	865.70	614.51
765.09	582.13	599.72	545.93
763.60	478.83	183.73	38.02
758.65	79.69	55.46	28.03
756.20	0.00	0.00	0.00





CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
783.40	27651.53	6279.78	549.80
781.42	21017.17	5229.15	524.96
777.80	12094.07	3500.83	441.05
774.70	6415.18	2248.50	377.44
769.30	1097.85	638.14	228.78
768.29	579.70	420.90	210.64
766.60	43.16	85.66	193.73
766.24	13.55	33.24	103.36
766.20	39.66	30.94	17.25
764.21	2.84	5.44	11.67
763.60	0.01	0.13	6.31
763.55	0.00	0.00	0.00



CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
845.00	963607.10	66723.59	1020.75
766.00	9203.80	3791.73	841.61
762.25	1640.53	1162.37	582.04
761.72	1319.86	899.05	424.36
760.00	165.20	239.49	350.71
759.82	142.95	187.13	235.31
759.50	69.20	116.20	211.89
759.00	66.54	55.36	35.28
758.63	64.91	50.24	28.73
756.00	10.18	11.66	12.01
755.53	0.01	0.11	7.04
755.50	0.00	0.00	0.00

// XFO STOP

TOWN CREEK FLOODWAY FOR F. SPENCER

X X X X X X X X X Y X Y X Y X

SECTION F

DESIRED Q                      AVER SLOPE                      MANNINGS N  
 4764.00                              0.0191                              0.075

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	652.50	10.00	651.00	11.04	650.55
21.58	646.00	22.00	645.82	37.19	645.00
44.04	644.63	47.00	644.47	47.14	644.00
47.29	643.46	47.57	642.50	48.00	641.00
54.00	640.64	57.00	637.67	57.80	637.58
66.00	636.66	78.00	637.58	78.12	637.67
92.16	640.64	82.65	641.00	84.69	642.50
86.00	643.46	93.85	644.00	100.68	644.47
103.00	644.63	106.30	644.47	116.00	644.00
131.98	644.47	137.42	644.63	150.00	645.00
151.48	644.63	152.12	644.47	154.00	644.00
156.16	643.46	160.00	642.50	162.74	643.46
164.29	644.00	165.63	644.47	166.09	644.63
167.14	645.00	169.49	645.82	170.00	646.00
175.00	650.55	185.38	651.00	220.00	652.50

COMPUTED Q      AVER SLOPE      MANNINGS N      ELEVATION  
 CFS                      FT  
 4761.00              0.019              0.075              647.17

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
647.90	1.00	57.00	78.00



X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	664.55	0.00	664.50	35.00	656.55
47.00	655.05	61.00	653.30	61.64	653.22
63.40	653.00	70.60	652.10	71.40	652.00
75.00	651.55	325.00	651.55	329.66	652.00
330.69	652.10	340.00	653.00	350.00	652.10
350.30	652.00	351.67	651.55	351.67	651.55
355.00	650.45	362.00	650.42	364.31	647.05
364.79	646.36	365.00	646.05	386.00	646.36
386.49	647.05	388.88	650.42	388.90	650.45
389.68	651.55	389.69	651.55	390.00	652.00
390.77	652.10	397.69	653.00	399.38	653.22
400.00	653.30	400.19	653.22	400.72	653.00
402.88	652.10	403.12	652.00	404.20	651.55
404.20	651.55	406.84	650.45	406.91	650.42
415.00	647.05	424.29	650.42	424.37	650.45
427.40	651.55	427.40	651.55	428.64	652.00
428.91	652.10	431.39	653.00	432.00	653.22
433.44	653.30	465.00	655.05	472.89	656.55
514.74	664.50	515.00	664.55	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
4546.00	0.001	0.070	656.42

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

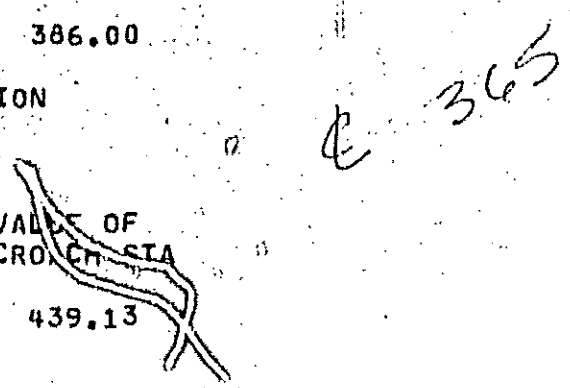
NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
656.10	1.00	362.00	386.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1928.56	0.00	116.93	439.13

ENCROACHMENT DISTANCE FROM LEFT BANK = 245.07 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 53.13 FEET





X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
515.17	656.75	518.00	660.40	614.66	671.66
625.00	672.00	690.00	676.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
4510.00	0.013	0.073	664.15

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
667.25	1.00	300.00	345.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( 0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1360.64	0.00	180.93	453.44

ENCROACHMENT DISTANCE FROM LEFT BANK = 129.07 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 108.44 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
676.00	74196.06	6891.32	696.36
672.00	7182.70	4309.25	606.95
671.66	34795.68	4107.00	594.54
668.40	12344.83	2480.39	440.09
666.75	10902.54	1757.66	406.17
665.65	7383.93	1337.19	367.88
664.55	4959.09	973.56	302.32
664.50	5044.19	959.13	283.90

*C 307*





X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
608.57	665.40	609.07	665.47	610.00	665.60
675.00	665.47	710.00	665.40	711.05	665.47
713.00	665.60	717.50	665.90	720.50	666.10
731.90	666.86	741.50	667.50	777.50	669.90
800.00	671.40	850.00	671.60	859.57	671.90
925.00	673.95	947.78	675.95	970.00	677.90
970.00	677.95	970.00	681.40	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
4485.00	0.000	0.073	670.36

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
669.76	1.00	492.00	518.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( 0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2585.07	0.00	194.66	697.85

ENCROACHMENT DISTANCE FROM LEFT BANK = 297.34 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 179.85 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
681.40	40203.73	12818.30	979.19
677.95	24955.54	9514.93	950.50
677.90	24756.66	9467.68	950.20

*C* 498



X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
561.65	662.95	561.95	662.28	562.47	661.12
562.47	661.12	563.00	659.93	572.00	661.12
582.00	661.12	588.00	662.28	589.36	662.95
597.36	666.90	598.18	667.30	598.36	667.39
598.42	667.42	599.39	667.90	600.00	668.20
604.62	667.90	612.00	667.42	612.15	667.39
612.62	667.30	634.68	666.90	635.00	662.95
650.00	666.90	670.00	667.30	674.50	667.39
676.00	667.42	700.00	667.90	706.67	668.20
710.69	668.39	722.00	668.89	788.89	671.90
800.00	672.40	821.82	673.90	850.91	675.90
880.00	677.90	923.19	683.91	937.49	685.90
952.00	687.92	971.84	690.40	972.00	690.42

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
4485.00	0.000	0.073	673.65

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
671.60	1.00	559.00	582.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1731.95	0.00	409.11	699.04

ENCROACHMENT DISTANCE FROM LEFT BANK = 149.89 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 117.04 FEET

*663*

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
690.42	59060.56	16166.42	982.38
690.40	58949.50	16146.98	982.19
687.92	47326.61	13809.26	923.54
685.90	38802.94	12010.54	877.40
683.91	30977.87	10319.37	841.87
677.90	12073.61	5594.95	748.90
675.90	7827.53	4174.04	689.67
673.90	4762.13	2911.31	590.49
672.40	3095.96	2105.57	501.10
671.90	2655.49	1867.73	467.47
668.89	602.35	676.19	341.27
668.39	411.53	517.57	309.74
668.20	361.83	462.69	283.90
667.90	302.07	386.78	237.78
667.42	263.92	297.11	150.68
667.39	263.62	292.89	145.54
667.30	312.43	282.35	102.92
666.90	300.26	243.62	79.48
662.95	39.83	50.12	30.01
662.28	19.98	32.11	27.76
661.12	2.14	5.67	10.38
659.93	0.00	0.00	0.00



MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( 0.00 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
740.50	0.00	17.18	172.09

ENCROACHMENT DISTANCE FROM LEFT BANK = 39.82 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 94.09 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
652.50	14859.49	1535.89	229.86
651.00	12006.96	1239.35	185.10
650.55	11272.73	1163.00	173.57
646.00	2515.74	452.35	155.33
645.82	2283.57	425.72	154.33
645.00	1475.15	311.96	136.64
644.63	1287.65	267.94	114.55
644.47	1277.10	251.88	99.36
644.00	1346.71	216.66	62.96
643.46	1240.03	189.04	50.68
642.50	962.66	149.48	41.19
641.00	490.44	95.65	37.10
640.64	453.34	84.34	30.48
637.67	19.79	11.15	21.24
637.58	15.06	9.29	20.28
636.66	0.00	0.00	0.00











X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	763.55	0.00	763.50	135.00	761.55
154.86	757.19	155.00	757.15	162.67	754.62
162.79	754.58	162.38	754.55	163.42	754.37
166.06	753.50	171.76	751.62	171.91	751.57
172.06	751.52	172.30	751.44	175.00	750.55
198.91	751.44	190.16	751.52	190.95	751.57
191.73	751.62	221.12	753.50	234.72	754.37
237.53	754.55	238.00	754.58	238.15	754.62
247.88	757.15	248.00	757.18	248.74	757.15
310.86	754.62	311.84	754.58	312.58	754.55
317.00	754.37	365.00	754.55	373.42	754.37
414.10	753.50	502.00	751.62	510.89	751.57
519.78	751.52	534.00	751.44	551.58	750.55
591.07	748.55	610.82	747.55	621.41	747.52
621.68	747.00	628.00	746.68	702.82	746.44
709.06	746.42	734.00	746.34	734.76	746.42
734.95	746.44	737.23	746.68	740.27	747.00
745.21	747.52	745.50	747.55	755.00	748.55
772.37	747.55	772.89	747.52	781.92	747.00
787.48	746.68	791.65	746.44	792.00	746.42
814.00	746.44	814.88	746.44	816.06	747.00
817.58	747.52	818.09	747.55	821.77	748.55
829.14	750.55	832.41	751.44	832.71	751.52
832.89	751.57	833.08	751.62	840.00	753.50
840.63	751.62	840.65	751.57	840.66	751.52
840.69	751.44	840.99	750.55	841.66	748.55
841.99	747.55	842.00	747.52	845.00	747.00
854.45	747.52	855.00	747.55	855.50	748.55
856.49	750.55	856.94	751.44	856.98	751.52
857.00	751.57	892.00	751.52	892.65	751.57
893.29	751.62	917.55	753.50	928.77	754.37
931.19	754.55	931.48	754.58	932.00	754.62
944.18	757.15	944.33	757.18	965.37	761.55
974.76	763.50	975.00	763.55	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MAINTENANCE N	ELEVATION FT
2611.00	0.003	0.080	751.20

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
752.71	1.00	628.00	755.00

RIGHT ENCROACHMENT STATION IN CHANNEL

STATION IS SET AT BANK

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION CONVEYANCE BY ( 29.01 ) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1320.30	2.19	526.24	755.00

ENCROACHMENT DISTANCE FROM LEFT BANK = 101.76 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 0.00 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
763.55	48428.84	10103.95	986.29
763.50	48048.89	10055.21	985.99
761.55	38755.07	8295.20	841.39
757.18	15864.67	4755.87	799.56
757.15	15748.33	4732.20	798.41
754.62	22360.43	2853.73	705.67
754.58	7253.44	2825.90	703.88
754.55	7176.09	2805.08	702.19
754.37	7135.18	2686.30	635.62
753.50	5396.42	2170.76	567.27
751.62	2726.97	1266.27	411.41
751.57	2702.14	1246.35	399.69
751.52	2859.29	1227.84	353.91

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
751.44	2842.18	1200.70	337.70
750.55	1932.42	922.87	297.99
748.55	527.27	385.26	246.47
747.55	152.60	166.29	193.75
747.52	144.92	160.52	191.66
747.00	43.33	71.06	152.86
746.68	8.06	24.76	136.69
746.44	0.19	1.83	54.48
746.42	0.12	1.03	25.71
746.34	0.00	0.00	0.00

X X X X X X Y X Y Y X X X X X Y Y X X X X X X X X X X X X X X X X X X X

TOWN CREEK STA. 37020

DESIGNED Q                      AVER SLOPE                      MANNINGS N  
 2024.00                              0.0004                              0.083

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	729.80	45.00	727.85	45.61	727.80
70.00	725.80	85.00	723.85	165.00	721.85
275.00	719.85	340.00	717.80	470.00	713.80
478.70	713.22	484.25	712.85	500.00	711.80
545.00	711.56	556.25	711.50	719.38	710.63
771.64	710.35	800.00	710.20	800.60	710.35
801.71	710.63	805.17	711.50	805.40	711.56
806.36	711.80	810.53	712.85	812.00	713.22
813.72	712.85	818.60	711.80	819.72	711.56
820.00	711.50	826.00	711.56	826.00	711.50
827.25	710.63	827.62	710.35	827.82	710.20
835.00	704.85	845.00	704.55	855.00	704.85
862.00	710.20	862.61	710.35	863.00	710.63
867.70	711.50	868.03	711.56	869.32	711.80
875.00	712.85	879.20	711.80	880.16	711.56
880.40	711.50	883.88	710.63	885.00	710.35
887.49	710.63	893.21	711.50	895.75	711.56
897.88	711.80	907.21	712.85	910.49	713.22
915.64	713.80	951.17	717.80	969.38	719.85
987.15	721.85	1004.91	723.85	1022.23	725.80
1040.00	727.80	1040.00	727.85	1040.00	729.80

COMPUTED Q      AVER SLOPE      MANNINGS N      ELEVATION  
 CFS                      FT  
 2024.00              0.000              0.083              716.04

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
715.80	1.00	826.00	863.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( -0.00 ) SQ. FT.

UNMODIFIED AREA PERCENT DIFF X-VALUE OF X-VALUE OF  
 CONVEYANCE OF MODIFICATION L ENCROACH STA R ENCROACH STA

2274.65 0.00 542.86 908.66

ENCROACHMENT DISTANCE FROM LEFT BANK = 283.14 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 45.66 FEET

*Handwritten notes:*  
 445  
 C

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
729.80	30439.53	13816.90	1048.61
727.85	24238.51	11832.78	1001.62
727.80	24079.56	11783.04	1000.96
725.80	18342.73	9836.42	958.61
723.85	13331.86	8011.07	926.05
721.85	9544.55	6269.01	828.15
719.85	6727.58	4752.47	700.26
717.80	4218.77	3414.28	616.90
713.80	1040.53	1300.64	451.08
713.22	739.16	1046.18	437.18
712.85	573.80	888.44	425.03
711.80	214.44	470.99	380.46
711.56	170.33	386.99	328.88
711.50	163.04	368.10	309.89
710.63	92.32	182.33	125.59
710.35	108.29	156.38	67.34
710.20	146.08	149.00	38.10
704.85	0.33	3.00	20.01
704.85	0.00	0.00	0.00

*Handwritten:*  
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 10





CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
701.30	87073.63	8143.85	658.16
697.30	57352.17	5803.85	527.90
695.38	43060.67	4821.70	510.47
695.35	42860.81	4806.61	510.03
691.30	20576.43	2914.05	438.81
686.15	4684.79	1035.35	303.93
685.10	2977.66	744.33	262.84
684.30	2621.49	576.82	168.22
683.05	1398.49	302.53	154.62
681.80	776.36	228.63	103.23
680.63	445.66	136.57	65.46
680.30	531.84	121.40	37.41
680.07	550.27	114.77	30.89
675.89	29.63	17.15	21.33
675.80	25.03	15.28	20.60
574.30	0.00	0.00	0.00



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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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C  
 1 ROWAN COUNTY BASIN F STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.004000	0.0	0.0	0.	713.100	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	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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	810.000	1450.000	1750.000	2480.000	1750.000	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	1300.000	15.000	1610.000	1625.000	1300.000	1300.000	1300.000	0.0	0.0	0.0
GR	729.100	1000.000	721.600	1100.000	716.700	1200.000	715.100	1300.000	714.500	1400.000
GR	712.700	1500.000	713.500	1600.000	713.100	1610.000	708.700	1613.000	708.700	1616.000
GR	708.100	1620.000	713.200	1625.000	715.500	1677.000	720.500	1700.000	729.100	1740.000
QT	5.000	640.000	1150.000	1420.000	2040.000	1420.000	0.0	0.0	0.0	0.0
X1	3600.000	12.000	1388.000	1426.000	2300.000	2300.000	2300.000	0.0	0.0	0.0
GR	735.600	1000.000	728.300	1100.000	723.600	1200.000	721.400	1300.000	719.400	1388.000
GR	716.300	1392.000	716.400	1401.000	716.800	1410.000	719.700	1416.000	724.000	1426.000
GR	735.100	1500.000	735.600	1513.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	470.000	855.000	1070.000	1580.000	1070.000	0.0	0.0	0.0	0.0
X1	4525.000	15.000	1299.000	1311.000	925.000	925.000	925.000	0.0	-0.600	0.0
GR	742.100	1000.000	736.500	1100.000	730.500	1200.000	727.600	1289.000	723.700	1295.000
GR	723.600	1299.000	720.700	1300.000	720.700	1305.000	720.700	1309.000	722.500	1311.000
GR	725.500	1316.000	727.300	1400.000	730.200	1482.000	737.100	1500.000	740.800	1600.000
X1	4550.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	4600.000	26.000	1393.000	1407.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	744.900	1000.000	741.100	1100.000	739.300	1140.000	736.200	1195.000	730.200	1295.000
GR	727.300	1384.000	723.400	1390.000	722.800	1393.000	721.500	1394.000	720.900	1396.000
GR	720.600	1398.000	720.400	1400.000	720.600	1402.000	720.900	1404.000	721.500	1406.000
GR	722.800	1407.000	725.200	1411.000	727.000	1495.000	729.900	1577.000	731.300	1580.000
GR	731.700	1600.000	734.200	1700.000	736.400	1800.000	739.200	1900.000	743.800	2000.000
GR	745.200	2036.000	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	14.000	0.010	93.000	0.0	0.0	0.0
X1	4648.000	0.0	0.0	0.0	48.000	48.000	48.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	728.900	729.900	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	744.900	0.0	1100.000	741.100	0.0	1200.000	736.500	0.0
BT	1300.000	732.100	0.0	1393.000	730.300	722.800	1394.000	730.300	725.400	1396.000

MADE IN U.S.A.



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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN F STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INO NINV TDIR STRT METRIC HVINS Q WSEL FR  
 -10. 3. 0. 0. 0.004000 0.0 0.0 0. 714.100 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

CCHV= 0.100 CEHV= 0.300

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

1300.00	6.90	715.00	0.0	714.10	715.32	0.32	0.0	0.0	715.10
1450.	851.	540.	58.	369.	79.	37.	0.	0.	713.20
0.0	2.31	6.81	1.59	0.055	0.035	0.055	0.0	708.10	1316.07
0.003956	1300.	1300.	1300.	0	0	5	0.0	349.70	1665.77

3600.00	5.91	722.21	0.0	0.0	722.55	0.35	7.22	0.01	719.40
1150.	324.	826.	0.	174.	152.	0.	21.	13.	724.00
0.14	1.87	5.45	0.0	0.055	0.035	0.055	0.035	716.30	1263.38
0.002426	2300.	2300.	2300.	5	0	1	0.0	158.45	1421.83

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

4525.00	6.02	726.12	726.12	0.0	727.30	1.18	3.26	0.0	726.00
855.	76.	671.	109.	19.	69.	49.	26.	16.	721.90
0.13	3.91	9.72	2.24	0.055	0.035	0.055	0.035	720.10	1290.35
0.006694	925.	925.	925.	30	5	1	0.0	82.75	1373.11

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN F STREAM 4  
 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
	-10.	4.	0.	0.	0.004000	0.0	0.0	0.	716.100	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	IOC	ICONT	CORAR	TOPWID	ENOST
1300.00	7.12	715.22	0.0	716.10	715.55	0.32	0.0	0.0	715.10
1750.	1083.	587.	80.	437.	83.	46.	0.	0.	713.20
0.0	2.48	7.09	1.74	0.055	0.035	0.055	0.0	708.10	1292.28
0.004067	1300.	1300.	1300.	0	0	5	0.0	378.46	1670.74
3600.00	6.30	722.60	0.0	0.0	722.96	0.36	7.40	0.01	719.40
1420.	473.	947.	0.	226.	165.	0.	25.	15.	724.00
0.14	2.09	5.74	0.0	0.055	0.035	0.055	0.035	716.30	1245.53
0.002494	2300.	2300.	2300.	5	0	1	0.0	177.21	1422.74

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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	ENOST
4525.00	6.70	726.80	726.80	0.0	727.80	0.99	3.12	0.0	725.00
1070.	101.	731.	239.	26.	77.	102.	32.	18.	721.90
0.18	3.94	9.46	2.35	0.055	0.035	0.055	0.035	720.10	1289.30
0.005470	925.	925.	925.	30	8	1	0.0	113.66	1402.96



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HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN F STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ  
 -10. 5. 0. 0. 0.004000 0.0 0.0 0. 717.100 0.0

J2 NPROF 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

CCHV= 0.100 CCHV= 0.300

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

1300.00	7.61	715.71	0.0	717.10	716.02	0.32	0.0	0.0	713.10
2480.	1663.	669.	148.	597.	90.	71.	0.	0.	713.20
0.0	2.78	7.44	2.09	0.055	0.035	0.055	0.0	708.10	1262.12
0.004005	1300.	1300.	1300.	0	0	5	0.0	415.83	1677.95

3600.00	6.99	723.29	0.0	0.0	723.70	0.41	7.65	0.03	719.40
2040.	834.	1206.	0.	335.	190.	0.	34.	17.	724.00
0.13	2.49	6.36	0.0	0.055	0.035	0.055	0.035	716.30	1214.21
0.002710	2300.	2300.	2300.	4	0	1	0.0	210.13	1424.34

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

4525.00	7.40	727.50	727.50	0.0	728.55	1.05	3.39	0.0	723.00
1580.	152.	899.	529.	36.	86.	172.	43.	20.	721.90
0.17	4.19	10.50	3.07	0.055	0.035	0.055	0.035	720.10	1273.66
0.005877	925.	925.	925.	30	8	1	0.0	148.95	1422.61

MADE IN U.S.A.



SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

108.1 700.1

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
1300.00	1300.00	0.0	0.0	708.10	810.00	714.32	128.02	714.66	240.06	0.0	0.0	6.24
1300.00	1300.00	0.0	0.0	708.10	1450.00	715.00	230.54	715.32	349.70	0.0	0.0	6.81
1300.00	1300.00	0.0	0.0	708.10	1750.00	715.22	274.40	715.55	378.46	0.0	0.0	7.09
1300.00	1300.00	0.0	0.0	708.10	2480.00	715.70	391.86	716.02	415.83	0.0	0.0	7.44
3600.00	2300.00	0.0	0.0	716.30	640.00	721.24	137.52	721.52	112.21	0.0	0.0	4.61
3600.00	2300.00	0.0	0.0	716.30	1150.00	722.20	233.46	722.55	158.45	0.0	0.0	5.45
3600.00	2300.00	0.0	0.0	716.30	1420.00	722.60	284.32	722.96	177.21	0.0	0.0	5.74
3600.00	2300.00	0.0	0.0	716.30	2040.00	723.29	391.96	723.70	210.13	0.0	0.0	6.35
4525.00	925.00	0.0	0.0	720.10	470.00	724.11	42.45	725.55	21.25	0.0	0.0	9.87
4525.00	925.00	0.0	0.0	720.10	855.00	726.12	104.50	727.30	82.76	0.0	0.0	9.72
4525.00	925.00	0.0	0.0	720.10	1070.00	726.80	144.67	727.79	113.66	0.0	0.0	9.46
4525.00	925.00	0.0	0.0	720.10	1580.00	727.50	206.10	728.55	148.95	0.0	0.0	10.50
4550.00	25.00	0.0	0.0	720.20	470.00	724.90	58.46	725.82	23.45	0.0	0.0	8.02
4550.00	25.00	0.0	0.0	720.20	855.00	726.70	130.52	727.48	105.63	0.0	0.0	8.20
4550.00	25.00	0.0	0.0	720.20	1070.00	727.22	169.66	727.94	126.18	0.0	0.0	8.33
4550.00	25.00	0.0	0.0	720.20	1580.00	727.99	248.84	728.70	171.67	0.0	0.0	9.01
4600.00	50.00	0.0	0.0	720.40	470.00	725.36	102.60	726.01	31.90	0.0	0.0	6.79
4600.00	50.00	0.0	0.0	720.40	855.00	727.21	265.36	727.61	116.90	0.0	0.0	6.04
4600.00	50.00	0.0	0.0	720.40	1070.00	727.71	352.62	728.06	143.54	0.0	0.0	5.99
4600.00	50.00	0.0	0.0	720.40	1580.00	728.49	535.72	728.82	189.40	0.0	0.0	6.26
4648.00	48.00	729.90	728.90	720.40	470.00	725.36	102.30	726.02	31.58	0.0	0.0	6.80
4648.00	48.00	729.90	728.90	720.40	855.00	727.21	265.67	727.61	116.96	0.0	0.0	6.03
4648.00	48.00	729.90	728.90	720.40	1070.00	727.71	352.91	728.06	143.63	0.0	0.0	5.98
4648.00	48.00	729.90	728.90	720.40	1580.00	728.49	535.95	728.82	189.45	0.0	0.0	6.26
4698.00	50.00	0.0	0.0	720.60	470.00	725.38	60.39	726.25	23.69	0.0	0.0	7.85
4698.00	50.00	0.0	0.0	720.60	855.00	726.98	123.63	727.84	100.10	0.0	0.0	8.55
4698.00	50.00	0.0	0.0	720.60	1070.00	727.44	155.68	728.30	117.88	0.0	0.0	8.92
4698.00	50.00	0.0	0.0	720.60	1580.00	728.22	229.81	729.06	162.00	0.0	0.0	9.61
4723.00	25.00	0.0	0.0	720.70	470.00	725.58	63.15	726.40	27.63	0.0	0.0	7.63
4723.00	25.00	0.0	0.0	720.70	855.00	727.16	128.38	727.97	103.95	0.0	0.0	8.31
4723.00	25.00	0.0	0.0	720.70	1070.00	727.65	164.31	728.42	122.50	0.0	0.0	8.54
4723.00	25.00	0.0	0.0	720.70	1580.00	728.40	238.95	729.18	166.72	0.0	0.0	9.31
LIMIT OF DETAILED STUDY												
7270.00	2547.00	0.0	0.0	741.10	267.00	744.26	23.78	744.74	33.84	0.0	0.0	6.66
7270.00	2547.00	0.0	0.0	741.10	528.00	744.82	38.00	745.78	35.52	0.0	0.0	9.42
7270.00	2547.00	0.0	0.0	741.10	670.00	745.14	47.43	746.28	36.48	0.0	0.0	10.20
7270.00	2547.00	0.0	0.0	741.10	1027.00	745.91	73.76	747.34	38.78	0.0	0.0	11.40
7320.00	50.00	0.0	0.0	741.50	267.00	744.91	29.67	745.25	34.58	0.0	0.0	5.69
7320.00	50.00	0.0	0.0	741.50	528.00	745.90	9.14	746.42	37.56	0.0	0.0	6.86
7320.00	50.00	0.0	0.0	741.50	670.00	746.33	74.70	746.93	38.85	0.0	0.0	7.37
7320.00	50.00	0.0	0.0	741.50	1027.00	747.21	111.77	748.02	44.49	0.0	0.0	8.51

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SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TG	EG	TOPWID	STENCL	STENCR	VCH
7370.00	50.00	0.0	0.0	741.90	267.00	745.22	82.75	745.38	35.47	0.0	0.0	3.43
7370.00	50.00	0.0	0.0	741.90	528.00	746.27	150.66	746.37	38.39	0.0	0.0	4.47
7370.00	50.00	0.0	0.0	741.90	670.00	746.73	185.36	747.09	39.65	0.0	0.0	4.93
7370.00	50.00	0.0	0.0	741.90	1027.00	747.67	268.81	748.19	48.43	0.0	0.0	5.86
7630.00	260.00	751.60	748.90	741.90	267.00	745.22	82.72	745.38	35.47	0.0	0.0	3.43
7630.00	260.00	751.60	748.90	741.90	528.00	746.28	150.50	746.57	38.39	0.0	0.0	4.48
7630.00	260.00	751.60	748.90	741.90	670.00	746.96	204.34	747.28	40.29	0.0	0.0	4.61
7630.00	260.00	751.60	748.90	741.90	1027.00	747.67	268.79	748.19	48.42	0.0	0.0	5.86
7680.00	50.00	0.0	0.0	741.50	267.00	745.27	39.47	745.50	39.67	0.0	0.0	4.64
7680.00	50.00	0.0	0.0	741.50	528.00	746.33	74.84	746.70	39.86	0.0	0.0	5.80
7680.00	50.00	0.0	0.0	741.50	670.00	747.01	102.65	747.39	40.90	0.0	0.0	5.86
7680.00	50.00	0.0	0.0	741.50	1027.00	747.74	140.32	748.34	61.15	0.0	0.0	7.42
7730.00	50.00	0.0	0.0	741.10	267.00	745.53	59.94	745.66	37.63	0.0	0.0	3.44
7730.00	50.00	0.0	0.0	741.10	528.00	746.65	104.58	746.89	41.03	0.0	0.0	4.56
7730.00	50.00	0.0	0.0	741.10	670.00	747.29	137.53	747.56	59.63	0.0	0.0	4.90
7730.00	50.00	0.0	0.0	741.10	1027.00	748.17	194.63	748.56	86.89	0.0	0.0	6.03
9600.00	1070.00	0.0	0.0	755.50	230.00	759.32	16.56	760.54	11.62	0.0	0.0	8.86
9600.00	1870.00	0.0	0.0	755.50	455.00	760.98	51.06	761.80	71.45	0.0	0.0	8.11
9600.00	1870.00	0.0	0.0	755.50	579.00	761.39	67.79	762.17	88.96	0.0	0.0	8.30
9600.00	1870.00	0.0	0.0	755.50	894.00	762.09	106.23	762.85	118.13	0.0	0.0	9.01

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
1300.000	810.000	714.316	0.0	0.0	0.0	240.060	0.0	1300.000
1300.000	1450.000	715.003	0.687	0.0	0.0	349.700	-109.640	1300.000
1300.000	1750.000	715.223	0.220	0.0	0.0	378.463	-138.403	1300.000
1300.000	2480.000	715.705	0.482	0.0	0.0	415.826	-175.756	1300.000
3600.000	640.000	721.236	0.0	6.920	0.0	112.210	0.0	2300.000
3600.000	1150.000	722.205	0.969	7.202	0.0	158.448	-46.239	2300.000
3600.000	1420.000	722.597	0.393	7.374	0.0	177.211	-65.002	2300.000
3600.000	2040.000	723.289	0.691	7.584	0.0	210.132	-97.922	2300.000
4525.000	470.000	724.114	0.0	2.878	0.0	21.252	0.0	925.000
4525.000	855.000	726.123	2.009	3.918	0.0	82.757	-61.506	925.000
4525.000	1070.000	726.804	0.681	4.206	0.0	113.661	-92.409	925.000
4525.000	1580.000	727.499	0.695	4.210	0.0	148.949	-127.698	925.000
4550.000	470.000	724.901	0.0	0.788	0.0	23.451	0.0	25.000
4550.000	855.000	726.699	1.798	0.576	0.0	105.629	-82.178	25.000
4550.000	1070.000	727.220	0.521	0.417	0.0	126.184	-102.732	25.000
4550.000	1580.000	727.990	0.770	0.492	0.0	171.671	-148.219	25.000
4600.000	470.000	725.360	0.0	0.459	0.0	31.896	0.0	50.000
4600.000	855.000	727.215	1.855	0.516	0.0	116.902	-85.006	50.000
4600.000	1070.000	727.709	0.494	0.488	0.0	143.542	-111.646	50.000
4600.000	1580.000	728.486	0.777	0.495	0.0	189.403	-157.507	50.000
4648.000	470.000	725.361	0.0	0.001	0.0	31.583	0.0	48.000
4648.000	855.000	727.215	1.854	0.0	0.0	116.960	-65.377	48.000
4648.000	1070.000	727.709	0.494	0.0	0.0	143.628	-112.046	48.000
4648.000	1580.000	728.486	0.778	0.001	0.0	189.452	-157.869	48.000
4698.000	470.000	725.375	0.0	0.014	0.0	23.694	0.0	50.000

4698,000	855,000	726,982	1,607	-0,233	0.0	100,097	-76,404	50,000
4698,000	1070,000	727,444	0,461	-0,265	0.0	117,881	-94,188	50,000
4698,000	1580,000	728,219	0,775	-0,268	0.0	161,996	-138,302	50,000
4723,000	470,000	725,580	0,0	0,204	0.0	27,630	0,0	25,000
4723,000	855,000	727,164	1,584	0,181	0.0	103,946	-76,315	25,000
4723,000	1070,000	727,652	0,489	0,209	0.0	122,499	-94,869	25,000
4723,000	1580,000	728,403	0,751	0,184	0.0	166,724	-139,094	25,000
7270,000	267,000	744,264	0,0	18,684	0.0	33,835	0,0	2547,000
7270,000	528,000	744,824	0,560	17,661	0.0	35,518	-1,683	2547,000
7270,000	670,000	745,144	0,319	17,491	0.0	36,480	-2,645	2547,000
7270,000	1027,000	745,909	0,765	17,506	0.0	38,780	-4,945	2547,000
7320,000	267,000	744,906	0,0	0,641	0.0	34,575	0,0	50,000
7320,000	528,000	745,902	0,997	1,078	0.0	37,560	-2,985	50,000
7320,000	670,000	746,330	0,428	1,186	0.0	38,854	-4,279	50,000
7320,000	1027,000	747,207	0,878	1,299	0.0	44,485	-9,910	50,000
7370,000	267,000	745,224	0,0	0,318	0.0	35,468	0,0	50,000
7370,000	528,000	746,275	1,051	0,373	0.0	36,394	-2,926	50,000
7370,000	670,000	746,726	0,451	0,396	0.0	39,646	-4,179	50,000
7370,000	1027,000	747,669	0,944	0,462	0.0	48,429	-12,961	50,000
7630,000	267,000	745,224	0,0	0,0	0.0	35,466	0,0	260,000
7630,000	528,000	746,275	1,052	0,001	0.0	38,387	-2,921	260,000
7630,000	670,000	746,958	0,683	0,233	0.0	40,285	-4,819	260,000
7630,000	1027,000	747,670	0,712	0,001	0.0	48,421	-12,955	260,000
7680,000	267,000	745,269	0,0	0,045	0.0	35,675	0,0	50,000
7680,000	528,000	746,329	1,061	0,054	0.0	38,865	-3,190	50,000
7680,000	670,000	747,006	0,677	0,048	0.0	40,896	-5,221	50,000
7680,000	1027,000	747,737	0,731	0,067	0.0	61,150	-25,475	50,000
7730,000	267,000	745,526	0,0	0,258	0.0	37,630	0,0	50,000
7730,000	528,000	746,655	1,129	0,326	0.0	41,027	-3,397	50,000
7730,000	670,000	747,293	0,638	0,287	0.0	59,626	-21,997	50,000
7730,000	1027,000	748,170	0,878	0,434	0.0	86,890	-49,260	50,000
9600,000	230,000	759,322	0,0	13,796	0.0	11,616	0,0	1870,000
9600,000	455,000	760,979	1,657	14,324	0.0	71,449	-59,833	1870,000
9600,000	579,000	761,394	0,416	14,101	0.0	88,962	-77,346	1870,000
9600,000	894,000	762,087	0,693	13,916	0.0	118,126	-106,510	1870,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0,0	0,0	14,071	0,0
2	0,0	0,0	23,366	9,295
3	0,0	0,0	26,628	12,556
4	0,0	0,0	32,089	18,017

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HEC2 VERSION UPDATED JAN 1975  
ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
MODIFICATIONS 52,53,54,55,56,57,58  
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 HEC2 RELEASE DATED NOV 76-UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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 T1 ROWAN COUNTY BASIN F STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NIIV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	715.220	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FI	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	010.000	1450.000	1750.000	2480.000	1750.000	1750.000	1750.000	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	-10.000	-7.400	0.0	0.0
						1.0	0.7			

STA. NO. HAVE BEEN CHANGED TO AGREE WITH PROFILE

X1	1300.000	15.000	1610.000	1625.000	1300.000	1300.000	1300.000	0.0	0.0	0.0
GR	729.100	1000.000	721.600	1100.000	716.700	1200.000	715.100	1300.000	714.500	1400.000
GR	712.700	1500.000	713.500	1600.000	713.100	1610.000	708.700	1613.000	708.700	1616.000
GR	708.100	1620.000	713.200	1625.000	715.500	1677.000	720.500	1700.000	729.100	1740.000
QT	5.000	640.000	1150.000	1420.000	2040.000	1420.000	1420.000	0.0	0.0	0.0
X1	3600.000	12.000	1308.000	1426.000	2300.000	2300.000	2300.000	0.0	0.0	0.0
GR	735.600	1000.000	729.300	1100.000	723.600	1200.000	721.400	1300.000	719.400	1388.000
GR	716.300	1392.000	716.400	1401.000	716.800	1410.000	719.700	1416.000	724.000	1426.000
GR	733.100	1500.000	735.600	1513.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	470.000	855.000	1070.000	1580.000	1070.000	1070.000	0.0	0.0	0.0
X1	4400.000	15.000	1299.000	1311.000	925.000	925.000	925.000	0.0	-0.600	0.0
GR	742.100	1000.000	736.500	1100.000	730.500	1200.000	727.600	1289.000	723.700	1295.000
GR	723.600	1299.000	720.700	1300.000	720.700	1305.000	720.700	1309.000	722.500	1311.000
GR	725.500	1316.000	727.200	1400.000	730.200	1482.000	737.100	1500.000	740.800	1600.000
X1	4425.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4475.000	26.000	1393.000	1407.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	744.900	1000.000	741.100	1100.000	739.300	1140.000	736.200	1195.000	730.200	1295.000
GR	727.300	1384.000	723.400	1390.000	722.800	1393.000	721.500	1394.000	720.900	1396.000
GR	720.600	1398.000	720.400	1400.000	720.600	1402.000	720.900	1404.000	721.500	1406.000
GR	722.800	1407.000	725.200	1411.000	727.300	1495.000	729.900	1577.000	731.300	1580.000
GR	731.700	1600.000	734.200	1700.000	736.400	1800.000	739.200	1900.000	743.800	2000.000
GR	746.200	2036.000	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	14.000	0.010	93.000	0.0	0.0	0.0

LIST OF DETAILED STUDY

R0ND JULIAN ROAD MXLCEL 728.9 RDELV 730.3

X1	4523.000	0.0	0.0	0.0	48.000	48.000	48.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	728.900	729.900	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	744.900	0.0	1100.000	741.100	0.0	1200.000	736.500	0.0
BT	1300.000	732.100	0.0	1393.000	730.300	722.800	1394.000	730.300	725.400	1396.000
BT	730.300	727.700	1398.000	730.300	728.600	1400.000	730.300	728.900	1402.000	730.300
BT	724.600	1404.000	730.300	727.700	1406.000	730.300	725.400	1407.000	730.300	722.800
BT	1500.000	729.000	0.0	1600.000	731.700	0.0	1700.000	734.200	0.0	1800.000
BT	736.400	0.0	1400.000	739.200	0.0	2000.000	743.800	0.0	2036.000	746.200
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	4573.000	15.000	1299.000	1311.000	50.000	50.000	50.000	0.0	0.100	0.0
GR	742.100	1000.000	736.500	1100.000	730.500	1200.000	727.600	1289.000	723.700	1295.000
GR	723.600	1299.000	720.700	1300.000	720.700	1305.000	720.700	1309.000	722.500	1311.000
GR	725.500	1316.000	727.300	1400.000	730.200	1482.000	737.100	1500.000	740.800	1600.000

X1	4598.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.100	0.0
BT	5.000	267.000	528.000	670.000	1027.000	670.000	670.000	0.0	0.0	0.0

X1	7270.000	21.000	2156.000	2171.000	2547.000	2547.000	2547.000	0.0	0.0	0.0
GR	763.500	1000.000	761.500	1100.000	759.100	1200.000	758.400	1300.000	759.300	1400.000
GR	760.800	1500.000	756.700	1600.000	753.800	1700.000	751.600	1800.000	750.600	1900.000
GR	748.400	2000.000	748.600	2100.000	746.700	2156.000	741.100	2164.000	741.500	2165.000
GR	742.300	2166.000	742.700	2171.000	742.800	2191.000	750.400	2203.000	752.300	2222.000
GR	756.600	2234.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	7220.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
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X1	7370.000	21.000	1466.000	1477.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	760.400	830.000	757.100	907.000	754.200	1007.000	752.000	1107.000	751.000	1207.000
GR	748.800	1307.000	749.000	1407.000	747.500	1463.000	745.000	1466.000	741.900	1466.000
GR	741.900	1477.000	743.100	1477.000	743.200	1498.000	750.800	1510.000	752.700	1529.000
GR	754.300	1534.000	753.900	1600.000	753.200	1700.000	752.500	1800.000	752.000	1900.000
GR	751.600	2000.000	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	11.000	0.010	77.000	0.0	0.0	0.0

R0ND I-25 MXLCEL 748.9 RDELV 754.7

X1	7630.000	0.0	0.0	0.0	260.000	260.000	260.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	748.900	751.600	0.0	0.0	0.0	0.0	0.0
BT	14.000	830.000	760.400	0.0	1000.000	758.600	0.0	1100.000	757.500	0.0
BT	200.000	756.600	0.0	1300.000	755.800	0.0	1400.000	755.100	0.0	1466.000
BT	754.700	748.900	1477.000	754.700	748.900	1500.000	754.500	0.0	1600.000	753.900
BT	0.0	1700.000	753.200	0.0	1800.000	752.500	0.0	1900.000	752.000	0.0
BT	2000.000	751.600	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







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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 EPROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 ROWAN COUNTY BASIN F STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOODWAY

J1	ICHECK	IMR	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	716.220	0.0
J2	NPROF	IPLT	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 1300.000

2800 NAT Q1= 273.72 WSEL= 715.22 ENC Q1= 273.72 WSEL= 716.22 RATIO= 0.0

NAT Q1= 548. RATIOS LOB,CH,ROB= 0.7054 0.2215 0.0731 WSEL= 716.22

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

3470 ENCROACHMENT STATIONS= 1526.0 1635.4 TYPE= 4 TARGET= 0.500

STA. NO. HAVE BEEN CHANGED TO AGREE WITH PROFILE

1300.00	8.12	716.22	0.0	715.22	716.76	0.54	0.0	0.0	713.10
1750.	887.	777.	86.	252.	98.	29.	0.	0.	713.20
0.0	3.51	7.96	2.96	0.055	0.035	0.055	0.0	708.10	1526.01
0.004196	1300.	1300.	1300.	0	0	0	0.0	109.39	1635.41

\*SECNO 3600.000

2800 NAT Q1= 284.82 WSEL= 722.60 ENC Q1= 284.82 WSEL= 723.60 RATIO= 0.0

NAT Q1= 449. RATIOS LOB,CH,ROB= 0.4386 0.5614 0.0 WSEL= 723.60

3470 ENCROACHMENT STATIONS= 1375.4 1426.0 TYPE= 4 TARGET= 0.366

3500.00	7.34	723.64	0.0	722.60	724.20	0.56	7.43	0.01	719.40
1420.	140.	1272.	0.	52.	203.	0.	17.	4.	724.00
0.11	2.88	6.28	0.0	0.055	0.035	0.055	0.035	716.30	1375.43
0.002491	2300.	2300.	2300.	4	0	0	0.0	49.74	1425.16

\*SECNO 4400.000

2800 NAT Q1= 144.75 WSEL= 726.81 ENC Q1= 144.75 WSEL= 727.80 RATIO= 0.0

NAT Q1= 239. RATIOS LOB,CH,ROB= 0.0794 0.5250 0.3756 WSEL= 727.80

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

T1 ROWAN COUNTY BASIN F STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOODWAY

J1	ICHECK	IND	NINV	IDIK	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	7.	0.	0.	0.0	0.0	0.0	0.	716,220	0.0
J2	NPROF	IPLT	PREVS	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 3

CCHV= 0.100 CFHV= 0.300

\*SECNO 1300,000

2800 NAT Q1= 273.72 WSEL= 715.22 ENC Q1= 273.72 WSEL= 715.92 RATIO= 0.0

NAT Q1=	453.	RATIOS	LOB	CH	POB=	0.6867	0.2475	0.0658	WSEL=	715.92
SECNO	DEPTH	CHSEL	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	XLOB	XLCH	XLOB	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS= 1508.1 1637.7 TYPE= 4 TARGET= 0.396

STA. NO. HAVE BEEN CHANGED TO AGREE WITH PROFILE

1300.00	8.12	716.22	0.0	715.22	716.60	0.38	0.0	0.0	713.10
1750.	979.	679.	92.	313.	86.	35.	0.	0.	713.20
0.0	3.13	6.96	2.63	0.055	0.0	0.055	0.0	708.10	1508.09
0.003136	1300.	1300.	1300.	0	0	0	0.0	129.66	1637.75

\*SECNO 3600,000

2800 NAT Q1= 284.82 WSEL= 722.60 ENC Q1= 284.82 WSEL= 723.30 RATIO= 0.0  
 NAT Q1= 394. RATIOS,LOB,CH,POB= 0.4102 0.5898 0.0 WSEL= 723.30

3470 ENCROACHMENT STATIONS=	1364.1	1426.0	TYPE=	4	TARGET=	0.278
3600.00	6.77	723.06	0.0	722.60	723.63	0.56
1420.	246.	1174.	0.	81.	182.	0.
0.11	3.03	6.47	0.0	0.055	0.035	0.055
0.002908	2300.	2300.	2300.	4	0	0
						0.035
						0.0
						59.75
						1423.83

\*SECNO 4400,000

2800 NAT Q1= 144.75 WSEL= 726.81 ENC Q1= 144.75 WSEL= 727.51 RATIO= 0.0  
 NAT Q1= 207. RATIOS,LOB,CH,POB= 0.0963 0.5678 0.3359 WSEL= 727.51

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR = .01  
 MODIFICATION = 50,51,52  
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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	Ø	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	1300.000	1300.00	0.0	0.0	1750.00	708.10	715.22	0.0	7.11	1292.48	1670.67	564.48	0.0
	1300.000	1300.00	0.0	0.0	1750.00	708.10	<del>716.22</del>	0.0	7.96	1526.01	1635.41	379.04	1.00
	1300.000	1300.00	0.0	0.0	1750.00	708.10	716.22	0.0	6.96	1508.09	1637.75	445.57	0.0
B	3600.000	2300.00	0.0	0.0	1420.00	716.30	722.60	0.0	5.73	1245.37	1422.75	391.79	0.0
	3600.000	2300.00	0.0	0.0	1420.00	716.30	<del>723.64</del>	0.0	6.28	1375.43	1425.16	254.04	1.04
	3600.000	2300.00	0.0	0.0	1420.00	716.30	723.06	0.0	6.47	1364.08	1423.83	262.74	-0.57
*C	4400.000	925.00	0.0	0.0	1070.00	720.10	726.81	726.81	9.46	1289.30	1402.99	204.45	0.0
	4400.000	925.00	0.0	0.0	1070.00	720.10	<del>726.35</del>	726.35	13.37	1296.68	1316.42	94.89	-0.45
	4400.000	925.00	0.0	0.0	1070.00	720.10	726.40	726.40	12.65	1295.66	1323.10	108.66	0.05
	4425.000	25.00	0.0	0.0	1070.00	720.20	727.22	726.91	8.33	1285.53	1411.68	240.99	0.0
	4425.000	25.00	0.0	0.0	1070.00	720.20	<del>728.01</del>	0.0	9.55	1295.71	1322.81	149.11	0.78
	4425.000	25.00	0.0	0.0	1070.00	720.20	727.95	0.0	8.62	1294.88	1330.27	171.75	-0.06
	4475.000	50.00	0.0	0.0	1070.00	720.40	727.71	0.0	5.99	1371.47	1515.01	281.32	0.0
	4475.000	50.00	0.0	0.0	1070.00	720.40	<del>728.86</del>	0.0	6.27	1309.25	1427.43	207.77	1.15
	4475.000	50.00	0.0	0.0	1070.00	720.40	728.52	0.0	6.16	1388.77	1435.28	219.69	-0.34
	4523.000	48.00	729.90	728.90	1070.00	720.40	727.71	0.0	5.98	1371.43	1515.06	281.53	0.0
	4523.000	48.00	729.90	728.90	1070.00	720.40	<del>728.71</del>	0.0	3.86	1340.75	1543.33	454.60	1.00
	4523.000	48.00	729.90	728.90	1070.00	720.40	728.41	0.0	4.38	1349.95	1534.85	396.51	-0.30
	4573.000	50.00	0.0	0.0	1070.00	720.60	727.44	0.0	8.92	1289.08	1406.98	220.80	0.0
	4573.000	50.00	0.0	0.0	1070.00	720.60	<del>728.42</del>	0.0	9.93	1296.19	1319.50	137.38	0.97
	4573.000	50.00	0.0	0.0	1070.00	720.60	728.15	0.0	9.58	1295.28	1326.61	154.00	-0.26
D	4598.000	25.00	0.0	0.0	1070.00	720.70	727.65	0.0	8.57	1287.63	1409.75	232.50	0.0
	4598.000	25.00	0.0	0.0	1070.00	720.70	<del>728.71</del>	0.0	9.41	1295.90	1321.46	149.42	1.06
	4598.000	25.00	0.0	0.0	1070.00	720.70	728.42	0.0	9.09	1295.04	1328.78	165.98	-0.29
LIMIT OF DETAILED STUDY													
E*	7270.000	2547.00	0.0	0.0	670.00	741.10	745.15	745.15	10.19	2158.22	2194.70	84.28	0.0
	7270.000	2547.00	0.0	0.0	670.00	741.10	<del>746.37</del>	746.37	11.36	2156.48	2176.40	68.38	1.22
	7270.000	2547.00	0.0	0.0	670.00	741.10	745.92	745.92	11.19	2157.12	2180.33	72.15	-0.45
	7320.000	50.00	0.0	0.0	670.00	741.50	746.33	0.0	7.37	2157.10	2195.95	113.90	0.0
	7320.000	50.00	0.0	0.0	670.00	741.50	<del>747.94</del>	0.0	7.45	2155.17	2179.90	109.71	1.61
	7320.000	50.00	0.0	0.0	670.00	741.50	747.43	0.0	7.26	2156.00	2183.67	112.93	-0.51

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENOST	AREA	DIFWSP
7370.000	50.00	0.0	0.0	670.00	741.90	746.81	0.0	6.18	1463.82	1503.71	143.34	0.0
7370.000	50.00	0.0	0.0	670.00	741.90	748.38	0.0	6.33	1464.90	1488.94	137.21	1.56
7370.000	50.00	0.0	0.0	670.00	741.90	747.84	0.0	6.31	1464.90	1492.10	139.01	-0.54
* 7630.000	260.00	751.60	748.90	670.00	741.90	746.96	0.0	5.94	1463.65	1503.93	149.09	0.0
7630.000	260.00	751.60	748.90	670.00	741.90	747.96	0.0	4.66	1445.89	1505.51	194.55	1.00
7630.000	260.00	751.60	748.90	670.00	741.90	747.66	0.0	4.99	1457.08	1505.04	178.42	-0.30
7680.000	50.00	0.0	0.0	670.00	741.50	747.16	0.0	5.61	2154.08	2197.26	147.36	0.0
7680.000	50.00	0.0	0.0	670.00	741.50	748.58	0.0	6.06	2151.37	2181.83	141.64	1.42
7680.000	50.00	0.0	0.0	670.00	741.50	748.05	0.0	6.03	2151.12	2185.26	142.16	-0.53
F 7730.000	50.00	0.0	0.0	670.00	741.10	747.42	0.0	4.75	2134.81	2198.29	182.23	0.0
7730.000	50.00	0.0	0.0	670.00	741.10	748.85	0.0	5.02	2147.50	2183.39	178.90	1.44
7730.000	50.00	0.0	0.0	670.00	741.10	748.32	0.0	5.02	2146.21	2186.55	179.07	-0.53
* G 9600.000	1870.00	0.0	0.0	579.00	755.50	761.46	761.46	8.04	1242.30	1333.89	128.89	0.0
9600.000	1870.00	0.0	0.0	579.00	755.50	761.30	761.30	11.86	1282.04	1295.37	52.29	-0.15
* 9600.000	1870.00	0.0	0.0	579.00	755.50	761.24	761.24	11.19	1279.33	1298.30	61.14	-0.06

SUMMARY OF ERRORS

CAUTION SECNO= 4400.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4400.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4400.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 4400.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4400.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4400.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4400.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 7270.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 7270.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 7270.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 7270.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 7270.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 7270.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 7630.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 9600.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 9600.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 9600.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 9600.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 9600.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 9600.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 9600.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 9600.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 9600.000 PROFILE= 3 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
<del>A-1300.000</del>	109.	379.	4.6	716.2	715.2	1.0
<del>B-3600.000</del>	50.	254.	5.6	723.6	722.6	1.0
<del>C-4400.000</del>	20.	95.	11.3	726.4	726.8	-0.4
<del>4425.000</del>	27.	149.	7.2	728.0	727.2	0.8
<del>4475.000</del>	35.	208.	5.1	728.9	727.7	1.2
<del>4525.000</del>	203.	455.	2.4	728.7	727.7	1.0
<del>4573.000</del>	23.	137.	7.8	728.4	727.4	1.0
<del>4598.000</del>	26.	149.	7.2	728.7	727.6	1.1
<del>7270.000</del>	20.	68.	9.8	746.3	745.1	1.2
<del>7320.000</del>	25.	110.	6.1	747.9	746.3	1.6
<del>7370.000</del>	24.	137.	4.9	748.4	746.8	1.6
<del>7630.000</del>	60.	195.	3.4	748.0	747.0	1.0
<del>7680.000</del>	30.	142.	4.7	748.6	747.2	1.4
<del>7730.000</del>	36.	179.	3.7	748.8	747.4	1.4
9600.000	13.	52.	11.1	761.4	761.5	-0.1

*Figured Data  
Tables  
from  
Profile 3*

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR  
PROFILE NO. 3

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
A 1300.000	130.	446.	3.9	716.2	715.2	1.0
B 3600.000	60.	263.	5.4	723.1	722.6	0.5
C 4400.000	27.	109.	9.8	726.5	726.8	0.3
4425.000	35.	172.	6.2	727.9	727.2	0.7
4475.000	47.	220.	4.9	728.5	727.7	0.8
4523.000	105.	397.	2.7	728.4	727.7	0.7
4573.000	31.	154.	6.9	728.1	727.4	0.7
D 4598.000	34.	166.	6.4	728.4	727.6	0.8
7270.000	23.	72.	9.3	745.9	745.1	0.8
7320.000	28.	113.	5.9	747.4	746.3	1.1
7370.000	27.	139.	4.8	747.8	746.8	1.0
7630.000	40.	178.	3.8	747.7	747.0	0.7
7680.000	34.	142.	4.7	748.1	747.2	0.9
7730.000	40.	179.	3.7	748.3	747.4	0.9
9600.000	19.	61.	9.5	761.4	761.5	-0.1

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





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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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C  
 I ROWAN COUNTY BASIN F STREAM 5  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.013000	0.0	0.0	0.	721.200	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLUC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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	283.000	561.000	712.000	1092.000	712.000	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	300.000	13.000	1162.000	1181.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	736.400	1000.000	730.800	1039.000	721.200	1058.000	720.600	1100.000	720.000	1162.000
GR	716.200	1163.000	716.600	1167.000	716.900	1172.000	721.000	1181.000	720.500	1200.000
GR	722.200	1300.000	727.300	1400.000	735.700	1500.000	0.0	0.0	0.0	0.0
QT	5.000	239.000	480.000	613.000	952.000	613.000	0.0	0.0	0.0	0.0
X1	1030.000	14.000	1123.000	1136.000	730.000	730.000	730.000	0.0	-2.600	0.0
GR	744.900	1000.000	739.700	1034.000	731.700	1059.000	731.000	1100.000	728.600	1123.000
GR	727.300	1124.000	727.200	1126.000	727.300	1128.000	731.300	1136.000	734.600	1200.000
GR	736.900	1300.000	741.600	1400.000	745.500	1500.000	747.100	1545.000	0.0	0.0
X1	1130.000	0.0	0.0	0.0	100.000	100.000	100.000	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	1180.000	19.000	1500.000	1507.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	765.600	1000.000	766.100	1100.000	766.600	1200.000	767.100	1300.000	743.600	1378.000
GR	738.400	1412.000	730.400	1437.000	729.700	1478.000	727.300	1500.000	725.900	1500.000
GR	725.900	1507.000	727.300	1507.000	730.000	1514.000	733.300	1578.000	735.600	1678.000
GR	740.300	1778.000	744.200	1878.000	745.800	1923.000	768.600	2000.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	7.000	0.010	49.000	0.0	0.0	0.0
X1	1424.000	0.0	0.0	0.0	244.000	244.000	244.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	732.900	765.600	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	765.600	0.0	1100.000	766.100	0.0	1200.000	766.600	0.0
BT	1300.000	767.100	0.0	1400.000	767.600	0.0	1500.000	767.800	732.900	1507.000
BT	767.800	732.900	1600.000	768.100	0.0	1700.000	768.400	0.0	1800.000	768.600
BT	0.0	1900.000	768.600	0.0	2000.000	768.600	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	1474.000	14.000	1123.000	1136.000	50.000	50.000	50.000	0.0	-0.900	0.0
GR	744.900	1000.000	739.700	1034.000	731.700	1059.000	731.000	1100.000	728.600	1123.000
GR	727.300	1124.000	727.200	1126.000	727.300	1128.000	731.300	1136.000	734.600	1200.000
GR	736.900	1300.000	741.600	1400.000	745.500	1500.000	747.100	1545.000	0.0	0.0



SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
300.00	300.00	300.00	0.0	716.20	283.00	719.66	24.81	720.54	15.96	0.0	0.0	7.55
300.00	300.00	300.00	0.0	716.20	561.00	721.23	76.25	721.69	185.01	0.0	0.0	6.30
300.00	300.00	300.00	0.0	716.20	712.00	721.43	92.62	721.93	197.06	0.0	0.0	6.83
300.00	300.00	300.00	0.0	716.20	1092.00	721.80	130.40	722.39	219.69	0.0	0.0	7.94
1030.00	730.00	730.00	0.0	724.60	239.00	728.06	24.89	728.63	31.50	0.0	0.0	6.69
1030.00	730.00	730.00	0.0	724.60	480.00	728.90	46.40	729.67	68.86	0.0	0.0	8.33
1030.00	730.00	730.00	0.0	724.60	613.00	729.27	62.45	730.03	88.62	0.0	0.0	8.56
1030.00	730.00	730.00	0.0	724.60	952.00	729.92	100.56	730.71	103.18	0.0	0.0	9.30
1130.00	100.00	100.00	0.0	725.50	239.00	728.99	25.45	729.53	31.84	0.0	0.0	6.58
1130.00	100.00	100.00	0.0	725.50	480.00	730.00	54.73	730.59	84.91	0.0	0.0	7.40
1130.00	100.00	100.00	0.0	725.50	613.00	730.27	67.36	730.93	90.79	0.0	0.0	8.09
1130.00	100.00	100.00	0.0	725.50	952.00	730.81	100.30	731.61	103.09	0.0	0.0	9.32
1180.00	50.00	50.00	0.0	725.90	239.00	729.32	40.04	729.80	30.77	0.0	0.0	6.44
1180.00	50.00	50.00	0.0	725.90	480.00	730.38	91.76	730.82	83.07	0.0	0.0	6.75
1180.00	50.00	50.00	0.0	725.90	613.00	730.76	126.27	731.14	92.83	0.0	0.0	6.61
1180.00	50.00	50.00	0.0	725.90	952.00	731.44	212.50	731.84	108.46	0.0	0.0	6.67
1424.00	244.00	765.60	732.90	725.90	239.00	729.32	39.99	729.80	30.75	0.0	0.0	6.44
1424.00	244.00	765.60	732.90	725.90	480.00	730.36	91.64	730.82	82.94	0.0	0.0	6.76
1424.00	244.00	765.60	732.90	725.90	613.00	730.76	126.31	731.16	92.84	0.0	0.0	6.61
1424.00	244.00	765.60	732.90	725.90	952.00	731.44	211.28	731.84	108.27	0.0	0.0	6.70
1474.00	50.00	0.0	0.0	726.30	239.00	729.53	20.77	730.29	28.78	0.0	0.0	7.70
1474.00	50.00	0.0	0.0	726.30	480.00	730.60	46.58	731.37	69.24	0.0	0.0	8.31
1474.00	50.00	0.0	0.0	726.30	613.00	730.97	62.35	731.73	88.58	0.0	0.0	8.57
1474.00	50.00	0.0	0.0	726.30	952.00	731.61	100.13	732.41	103.03	0.0	0.0	9.34
1574.00	100.00	0.0	0.0	727.20	239.00	730.82	28.03	731.28	33.36	0.0	0.0	6.10
1574.00	100.00	0.0	0.0	727.20	480.00	731.70	54.53	732.29	84.81	0.0	0.0	7.42
1574.00	100.00	0.0	0.0	727.20	613.00	731.97	67.41	732.63	90.82	0.0	0.0	8.09
1574.00	100.00	0.0	0.0	727.20	952.00	732.52	100.40	733.31	103.13	0.0	0.0	9.32
3000.00	1426.00	0.0	0.0	741.90	156.00	745.31	17.46	745.79	55.50	0.0	0.0	6.24
3000.00	1426.00	0.0	0.0	741.90	327.00	746.01	36.92	746.46	85.69	0.0	0.0	7.08
3000.00	1426.00	0.0	0.0	741.90	425.00	746.14	42.43	746.71	89.11	0.0	0.0	8.20
3000.00	1426.00	0.0	0.0	741.90	679.00	746.59	64.81	747.23	100.75	0.0	0.0	9.27
5800.00	2800.00	0.0	0.0	772.10	63.00	773.76	4.44	774.52	9.23	0.0	0.0	5.99
5800.00	2800.00	0.0	0.0	772.10	140.00	774.62	10.97	775.40	17.00	0.0	0.0	7.12
5800.00	2800.00	0.0	0.0	772.10	108.00	775.16	17.69	775.87	26.89	0.0	0.0	6.94
5800.00	2800.00	0.0	0.0	772.10	322.00	775.92	32.82	776.70	46.84	0.0	0.0	7.75
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH				
300.000	283.000	719.656	0.0	0.0	0.0	15.962	0.0	300.000				
300.000	561.000	721.229	1.573	0.0	0.0	185.007	-169.045	300.000				
300.000	712.000	721.420	0.199	0.0	0.0	197.063	-181.101	300.000				
300.000	1092.000	721.800	0.372	0.0	0.0	219.690	-203.723	300.000				

716.2  
716.2

1030,000	239,000	728,063	0,0	8,407	0,0	31,495	0,0	730,000
1030,000	480,000	728,896	0,833	7,666	0,0	68,862	-37,366	730,000
1030,000	613,000	729,271	0,375	7,843	0,0	88,620	-57,124	730,000
1030,000	952,000	729,917	0,646	8,117	0,0	103,177	-71,682	730,000
1130,000	239,000	728,987	0,0	0,924	0,0	31,838	0,0	100,000
1130,000	480,000	730,005	1,018	1,109	0,0	84,910	-53,072	100,000
1130,000	613,000	730,266	0,261	0,996	0,0	90,794	-58,956	100,000
1130,000	952,000	730,813	0,547	0,896	0,0	103,093	-71,255	100,000
1180,000	239,000	729,317	0,0	0,330	0,0	30,773	0,0	50,000
1180,000	480,000	730,375	1,058	0,370	0,0	83,066	-52,293	50,000
1180,000	613,000	730,757	0,383	0,491	0,0	92,831	-62,058	50,000
1180,000	952,000	731,442	0,685	0,629	0,0	108,463	-77,690	50,000
1424,000	239,000	729,319	0,0	0,002	0,0	30,755	0,0	244,000
1424,000	480,000	730,376	1,057	0,001	0,0	82,944	-52,189	244,000
1424,000	613,000	730,759	0,383	0,001	0,0	92,840	-62,085	244,000
1424,000	952,000	731,444	0,685	0,001	0,0	108,274	-77,519	244,000
1474,000	239,000	729,527	0,0	0,208	0,0	28,779	0,0	50,000
1474,000	480,000	730,600	1,073	0,224	0,0	69,242	-40,464	50,000
1474,000	613,000	730,969	0,369	0,210	0,0	88,576	-59,797	50,000
1474,000	952,000	731,611	0,642	0,167	0,0	103,035	-74,256	50,000
1574,000	239,000	730,823	0,0	1,296	0,0	33,362	0,0	100,000
1574,000	480,000	731,701	0,878	1,101	0,0	84,812	-51,458	100,000
1574,000	613,000	731,968	0,267	0,999	0,0	90,816	-57,454	100,000
1574,000	952,000	732,516	0,548	0,906	0,0	103,125	-69,764	100,000
3000,000	158,000	745,314	0,0	14,491	0,0	55,503	0,0	1426,000
3000,000	327,000	746,007	0,693	14,306	0,0	85,694	-30,190	1426,000
3000,000	425,000	746,139	0,133	14,171	0,0	89,114	-33,611	1426,000
3000,000	679,000	746,588	0,449	14,072	0,0	100,748	-45,245	1426,000
5800,000	63,000	773,757	0,0	29,444	0,0	9,233	0,0	2800,000
5800,000	140,000	774,619	0,861	28,612	0,0	17,000	-7,767	2800,000
5800,000	188,000	775,164	0,545	29,024	0,0	26,891	-17,658	2800,000
5800,000	322,000	775,922	0,759	29,354	0,0	46,842	-37,609	2800,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0,0	0,0	4,319	0,0
2	0,0	0,0	9,221	4,901
3	0,0	0,0	10,209	5,889
4	0,0	0,0	12,109	7,790



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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,03  
 MODIFICATIONS 52,53,54,55,56,57,58  
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C  
 1 ROWAN COUNTY BASIN G STREAM 9  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 691B  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IBR	NIMV	IDIR	STRT	METRIC	HVINS	Q	HSEL	EQ
	-1.	2.	0.	0.	0.010000	0.0	0.0	0.	757.000	0.0
J2	DPROF	IPLDT	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	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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	318.000	04.000	756.000	1132.000	756.000	0.0	0.0	0.0	0.0
E1	5.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
X1	475.000	14.000	1594.000	1605.000	475.000	475.000	475.000	0.0	0.0	0.0
GR	770.000	1000.000	766.300	1100.000	762.200	1200.000	759.700	1300.000	756.500	1400.000
GR	754.700	1500.000	753.400	1525.000	754.700	1594.000	751.900	1597.000	751.700	1600.000
GR	751.800	1603.000	754.600	1605.000	754.100	1627.000	770.000	1674.000	0.0	0.0
QT	5.000	270.000	515.000	647.000	976.000	647.000	0.0	0.0	0.0	0.0
X1	2600.000	15.000	1448.000	1460.000	2125.000	2125.000	2125.000	0.0	-3.600	0.0
GR	795.500	1000.000	791.600	1100.000	787.400	1200.000	781.200	1300.000	777.900	1400.000
GR	777.900	1448.000	776.000	1451.000	775.900	1454.000	776.100	1457.000	777.700	1460.000
GR	778.300	1500.000	780.100	1547.000	783.500	1600.000	793.000	1700.000	795.100	1707.000
X1	2650.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.900	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	2700.000	16.000	1423.000	1438.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	795.100	1000.000	791.300	1100.000	786.000	1200.000	781.600	1300.000	779.700	1400.000
GR	776.900	1423.000	776.300	1426.000	775.000	1427.000	774.100	1430.000	774.400	1422.000
GR	777.800	1435.000	778.000	1438.000	781.400	1500.000	786.400	1600.000	794.400	1700.000
SR	795.100	1710.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.500	1.500	2.500	0.0	15.000	0.010	32.500	0.0	0.0	0.0
X1	2721.000	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	778.000	0.0	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	795.100	0.0	1100.000	791.300	0.0	1200.000	786.000	0.0
BT	1300.000	781.600	0.0	1400.000	779.700	0.0	1423.000	779.500	778.000	1438.000
BT	779.500	778.000	1500.000	781.400	0.0	1600.000	786.400	0.0	1700.000	794.400
BT	0.0	1710.000	795.100	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
X1	2771.000	15.000	1448.000	1460.000	50.000	50.000	50.000	0.0	-0.900	0.0
GR	795.500	1000.000	791.600	1100.000	787.400	1200.000	781.200	1300.000	777.900	1400.000
GR	777.900	1448.000	776.000	1451.000	775.900	1454.000	776.100	1457.000	777.700	1460.000
GR	778.300	1500.000	780.100	1547.000	783.500	1600.000	793.000	1700.000	795.100	1707.000

X1	2821.000	0.0	00.0	0.0	50.000	50.000	50.000	0.0	0.900	0.0
QT	5.000	111.000	230.000	301.000	487.000	301.000	0.0	0.0	0.0	0.0
X1	4200.000	13.000	1341.000	1343.000	1379.000	1379.000	1379.000	0.0	0.0	0.0
GR	813.800	1000.000	809.700	1100.000	605.000	1200.000	797.200	1300.000	795.900	1341.000
SR	795.400	1342.600	795.600	1343.000	797.000	1380.000	799.500	1400.000	800.800	1500.000
GR	803.500	1600.000	809.000	1700.000	810.600	1720.000	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



100% Recycled Paper with 50% Recycled Fiber

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN G STREAM 9  
 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.	0.010000	0.0	0.0	0.	758.000	0.0
J2	NPROF	IPLT	PREVS	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

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRINS	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
475.00	3.51	755.21	0.0	758.00	755.59	0.38	0.0	0.0	754.70
604.	334.	221.	50.	116.	30.	21.	0.	0.	754.60
0.0	2.67	7.27	2.38	0.055	0.035	0.055	0.0	751.76	1471.59
0.009994	475.	475.	475.	0	0	6	0.0	158.69	1630.29
2600.00	3.12	775.42	0.0	0.0	775.82	0.40	20.22	0.01	774.30
515.	180.	221.	114.	72.	31.	47.	8.	8.	774.10
0.13	2.49	7.17	2.41	0.055	0.035	0.055	0.035	772.30	1366.19
0.009000	2125.	2125.	2125.	3	0	1	0.0	152.49	1518.69

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRINS	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
2650.00	3.10	776.30	776.30	0.0	776.71	0.41	0.46	0.0	775.20
515.	179.	223.	113.	71.	31.	46.	8.	8.	775.00
0.13	2.52	7.25	2.43	0.055	0.035	0.055	0.035	773.20	1366.69
0.009382	50.	50.	50.	30	6	1	0.0	151.56	1518.26



```

// JOB, M KEZIAH, P=1
// LIST JOB
// NOP
//RMAKL2 JOB RTI.A25.P03078,KEZIAH,M=1,T=(,15),PRTY=2,D=RTIMG
//OUTPUT DD DSN=RTI.A25.P03078.MAK.TOWN,DISP=MOD
//INPUT DD DATA
//*PROCLIB=RTI.MG.PROCLIB
//SYSIN DD *
T1 ROWAN COUNTY BASIN F STREAM 3 TOWN CREEK
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 500 YEAR FLOOD WATER SURFACE PROFILE
J1 -1 2 624.0
J2 15 -1
J3 38 39 40 41 43 42 1 2 26 53
J3 54 25 50
NC 0.085 0.085 0.060 0.1 0.3
QT 1 12500
ET 5 0 0 0 0 -10.4
X1 100 26 340 900 100 100 100
GR 633.8 60 625.0 100 624.5 115 622.0 175 622.5 340
GR 621.9 405 621.6 705 622.5 900 622.0 928 622.7 1488
GR 624.5 1555 624.5 1600 623.0 1625 624.5 1668 624.5 1705
GR 622.5 1730 622.6 1925 622.0 2075 622.7 2160 623.5 2305
GR 621.6 2455 622.3 2525 622.6 2640 621.6 2735 622.0 2750
GR 633.8 2800
NT 1 12400
X1 2300 18 328 370 2200 2200 2200
GR 633.5 30 624.5 60 623.7 138 625.0 145 623.8 245
GR 624.3 305 626.4 315 626.4 328 620.7 332 621.3 355
GR 620.9 367 626.1 370 626.0 386 624.4 390 623.7 425
GR 624.0 1020 627.6 1060 633.5 1080
NC 0.085 0.085 0.060 0.1 0.3
QT 1 12000
X1 5700 18 583 623 3400 3400 3400
GR 636.0 75 633.5 110 632.6 175 629.4 230 628.1 330
GR 628.7 425 629.0 480 628.7 550 632.4 563 629.7 573
GR 630.0 583 622.6 588 622.7 618 629.3 623 631.0 640
GR 629.5 650 628.5 700 636.0 900
NC 0.085 0.085 0.060 0.1 0.3
QT 1 11700
X1 8000 21 275 297 2300 2300 2300
GR 642.5 50 639.2 175 637.5 270 634.5 275 625.5 280
GR 625.7 294 631.5 297 635.5 310 632.8 340 634.4 370
GR 634.0 390 630.0 395 629.6 414 635.0 420 633.7 445
GR 633.2 476 634.2 526 633.6 530 633.8 605 635.8 675
GR 642.6 700
NC 0.080 0.080 0.060 0.1 0.3
QT 1 11300
X1 9580 23 540 600 1570 1570 1570
GR 651.6 0 643.7 100 642.5 160 640.5 200 640.5 350
GR 638.2 445 638.4 515 637.5 524 640.4 527 636.8 536
GR 638.7 540 630.4 548 629.3 567 629.7 580 638.6 600
GR 637.7 608 637.6 660 639.4 732 640.3 900 645.5 1105
GR 645.2 1125 647.2 1220 651.6 1292
NC 0.090 0.090 0.060 0.1 0.3
QT 1 11300

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X1 19125	25	487	526	1945	1945	1945		-2.194	
GR 683.5	0	672.0	80	668.0	140	667.9	200	667.5	300
GR 666.6	400	667.6	487	666.0	492	661.6	495	661.6	510
GR 666.8	515	668.8	526	668.1	580	668.5	585	667.0	590
GR 665.3	593	664.5	600	665.3	605	667.7	610	667.6	700
GR 667.5	710	673.6	800	673.7	850	676.0	925	680.0	970
X1 19150	0	0	0	25	25	25			
X1 19175	0	0	0	25	25	25			
NC 0.070	0.070	0.060	0.1	0.3					
X1 19225	0	0	0	50	50	50			
X1 19325	0	0	0	100	100	100			
QT 1	10000								
X1 20125	22	557	600	800	800	800		-2.194	
GR 692.5	0	686.0	95	680.0	140	678.0	170	676.0	240
GR 674.0	330	670.3	400	669.4	530	670.8	557	668.5	562
GR 662.0	564	663.1	573	663.1	583	669.3	585	700.4	600
GR 669.6	612	665.0	635	669.0	650	670.0	700	675.4	810
GR 680.0	880	690.0	955						
NC 0.070	0.070	0.060	0.1	0.3					
X1 21125	23	442	493	1000	1000	1000		-2.194	
GR 693.0	0	689.0	95	684.0	155	680.0	200	674.4	360
GR 674.6	400	675.4	442	669.6	460	669.0	463	669.1	472
GR 671.8	475	677.0	493	673.5	515	674.5	523	675.5	600
GR 675.5	625	673.5	628	673.0	640	674.7	645	676.0	653
GR 675.6	700	676.5	750	690.0	920				
X1 22125	20	485	522	1000	1000	1000		-2.194	
GR 690.0	0	688.0	65	686.0	80	684.0	115	682.0	145
GR 680.0	160	678.0	210	676.0	482	675.0	485	674.0	486
GR 672.0	490	671.5	495	671.5	510	672.0	515	674.0	520
GR 675.0	522	676.0	528	678.0	585	680.0	610	690.0	790
X1 22600	22	660	692	500	500	500		-2.194	
GR 690.0	0	688.0	15	686.0	90	684.0	130	682.0	250
GR 682.0	365	683.8	500	683.6	558	681.6	575	681.3	605
GR 678.6	615	681.3	635	678.5	660	675.2	665	674.8	675
GR 675.1	685	680.5	692	679.5	705	680.3	728	678.8	738
GR 678.5	765	690.5	785						
X1 23085	18	247	273	900	500	675		-2.644	
GR 704	30	700	80	698	85	685.7	155	684.5	200
GR 682.7	247	678.5	249	677	260	678.5	270	683.3	273
GR 683	290	687	310	687.8	400	688.8	435	694	540
GR 698	588	700	600	704	680				
EJ									

ER  
THIS IS THE SECOND HALF AFTER THE SALISBURY REACH 500 ONLY

QT 1	5350								
X1 43100	15	500	520	1085	1085	1085		-2.194	
GR 740.0	0	730.0	210	726.0	275	725.6	330	726.0	375
GR 726.1	480	725.5	500	721.5	502	721.5	518	725.5	520
GR 726.0	600	725.6	640	726.0	660	728.0	700	740.0	800
NC 0.090	0.090	0.065	0.1	0.3					
X1 43575	0	0	0	475	475	475			
NC 0.090	0.090	0.065	0.1	0.3					
X1 45200	13	442	460	1625	1625	1625			
GR 735.5	0	728.4	132	727.2	185	726.1	275	726.6	348

GR	726.1	367	726.7	442	722.3	445	723.0	448	723.3	457
GR	726.8	460	730.6	505	735.5	550				
QT	1	5300								
X1	46650	15	433	455	1450	1450	1450			
GR	748.1	0	737.2	110	732.6	175	730.5	248	729.2	305
GR	729.0	430	729.5	433	726.5	440	726.0	445	726.5	454
GR	729.5	455	729.2	660	730.4	682	740.0	736	748.1	755
NC	0.095	0.095	0.065	0.1	0.3					
X1	48100	20	430	450	1450	1450				
GR	746.0	0	742.0	103	735.2	136	733.0	175	732.2	360
GR	733.5	425	732.2	430	728.3	432	727.7	440	728.0	447
GR	733.5	450	733.0	460	733.5	530	732.5	560	732.5	660
GR	733.2	700	735.8	775	737.8	825	737.8	840	746.0	945
NC	0.095	0.095	0.065	0.1	0.3					
QT	1	5200								
X1	49700	16	570	600	1450	1450	1450			
GR	749.5	0	746.7	130	743.8	160	736.5	285	736.5	340
GR	736.3	500	736.8	555	735.2	570	732.0	574	730.5	585
GR	736.5	590	736.5	600	735.8	635	737.5	695	740.6	735
GR	749.5	900								
X1	49785	14	856	895	85	85				
GR	755.8	0	749.7	205	748.5	315	746.2	410	743.6	615
GR	743.6	700	745.2	855	735.2	856	730.2	870	730.2	890
GR	734.5	895	745.2	896	747.0	995	756.0	1255		
SB	0.9	1.5	2.5		39	0.1	381			
X1	49815	0	0	0	30	30	30			
X2			1	741.2	745.2					
BT	7	0	755.8		205	749.7		315	748.5	
BT	410	746.2		615	743.6		700	743.6		856
BT	745.2	741.1	895	745.2	741.2	995	747.0		1255	756.0
BT										
NC	0.095	0.095	0.065	0.1	0.3					
X1	49900	17	415	465	85	85				
GR	746.0	0	743.2	65	739.3	105	737.5	175	736.5	300
GR	737.1	360	737.0	380	731.4	384	731.0	396	736.4	405
GR	736.4	415	727.2	435	737.0	465	737.4	485	739.6	620
GR	735.0	635	746.0	650						
NC	0.095	0.095	0.065	0.1	0.3					
X1	51350	15	520	540	1450	1450				
GR	751.0	0	743.6	138	737.5	325	738.2	415	737.5	425
GR	737.7	520	732.0	522	732.8	538	736.5	540	737.0	546
GR	737.6	605	737.5	710	739.8	725	742.5	775	751.0	875
NC	0.095	0.095	0.070	0.1	0.3					
QT	1	5100								
X1	53200	15	332	360	1850	1850	1850			
GR	755.0	0	750.5	125	748.1	135	746.3	150	745.0	250
GR	743.2	320	743.3	332	739.5	342	739.0	350	739.6	356
GR	742.1	360	746.4	380	751.4	435	751.5	465	755.0	515
X1	53285	11	458	533	85	85				
GR	763.0	0	759.7	75	751.6	355	751.8	458	746.5	458
GR	740.6	482	740.3	518	746.3	533	751.8	533	753.3	636
GR	763.0	930								
SB	1.25	1.5	2.5		75	1.0	599			
X1	53315	0	0	0	30	30	30			
X2			1	750.8	751.8					
BT	7	0	763.0		75	759.7	0	355	751.6	
BT	458	751.8	750.0	533	751.8	750.0	636	753.3		930.0

BT	763.0									
NC	0.095	0.095	0.075	0.1	0.3					
X1	53400	14	277	295	85	85				
GR	755.0	0	751.5	55	747.7	100	747.7	160	744.0	215
GR	743.8	270	738.5	275	739.5	288	743.4	295	744.2	325
GR	744.0	360	742.5	380	743.7	430	751.6	480	755.0	520
NC	0.095	0.095	0.075	0.1	0.3					
QT	1	5050								
X1	54700	17	351	380	1300	1300	1300			
GR	753.5	25	750.5	93	748.5	168	745.0	218	745.5	270
GR	744.6	300	745.2	330	744.0	340	745.5	351	740.6	371
GR	745.6	380	743.6	433	744.6	455	746.7	555	751.5	605
GR	750.7	620	753.5	700						
NC	0.095	0.095	0.075	0.1	0.3					
QT	1	5000								
X1	56600	23	628	755	1900	1900	1900			
GR	763.1	0	761.5	135	757.1	155	750.5	175	754.5	238
GR	757.1	248	754.3	317	754.5	365	751.6	502	751.4	534
GR	746.6	628	746.3	734	748.5	755	746.4	792	746.4	814
GR	753.5	840	747.5	842	747.0	845	747.5	855	751.5	857
GR	751.5	892	754.6	932	763.5	975				
THIS IS THE THIRD PART INCLUDING THE SECTIONS SURVEYED BY M-6 U/-50-100-500 YEAR										
NC	0.095	0.095	0.075	0.1	0.3					
QT	5	1560	2225	2600	5000	2600				
X1	60150	13	665	693	3550	3550	3550			
GR	766.0	0	762.2	255	761.7	412	759.0	525	759.5	650
GR	759.0	665	756.8	680	755.5	683	755.5	690	758.8	693
GR	760.0	730	759.8	832	766.0	845				
NC	0.095	0.095	0.075	0.1	0.3					
X1	60240	12	1290	1315	90	90	90			
GR	779.0	0	775.5	90	771.2	260	766.0	645	763.6	1000
GR	765.0	1289	756.2	1290	756.2	1310	758.6	1315	765.5	1316
GR	766.9	1415	779.0	1500						
SB	0.9	1.5	2.5		25	0.1	187			
X1	60260	0	0	0	20	20	20			
X2			1	764.0	765.0					
BT	7	0	779.0		90	775.5		260	771.2	
BT	645	766.0		1000	763.6	0	1290	765.0	763.8	1315
BT	765.5	764.0								
NC	0.095	0.095	0.075	0.1	0.3					
X1	60350	12	534	548	90	90				
GR	764.5	0	763.0	25	760.5	260	760.5	490	758.6	510
GR	760.0	530	759.5	534	755.7	537	757.0	545	760.0	548
GR	760.0	565	764.5	620						
QT	5	1500	2180	2400	4600	2400				
X1	63200	12	1209	1224	2940	2940	2940			
GR	783.4	1000	774.7	1100	769.3	1200	768.2	1209	763.6	1210
GR	763.5	1216	764.2	1221	766.2	1224	766.2	1300	766.6	1400
GR	777.8	1500	781.4	1542						
QT	5	1450	2150	2325	4600	2325				
X1	65122	13	1400	1410	1922	1922	1922		-2.0	
GR	774.9	1000	775.4	1100	776.2	1200	777.2	1300	772.7	1400
GR	769.2	1402	769.0	1405	769.2	1408	772.8	1410	777.4	1500
GR	781.4	1600	781.5	1700	780.0	1800				
X1	65222	14	1393.2	1406.9	100	100	100			
GR	783.0	800	773.9	995	774.4	1095	775.2	1195	776.2	1295
GR	771.7	1393.2	769.0	1393.2	768.0	1406.9	771.7	1406.9	776.4	1495

GR	780.4	1595	780.5	1600	780.3	1700	780.2	1800		
SR	0.9	1.5	2.5	0	13.7	0.01	139.74			
X1	65378	0	0	0	156	156	156			
X2				778.2	780.2					
BT	12	1000	781.8	0	1100	781.4	0	1200	781.3	0
BT	1300	781.0	0	1393.1	781.3	0	1393.2	781.3	778.2	1406.9
BT	781.3	778.2	1407	781.3	0	1500	780.7	0	1600	780.5
BT	0	1700	780.3	0	1800	780.2	0			
X1	65478	13	1400	1410	100	100	100			
GR	774.9	1000	775.4	1100	776.2	1200	777.2	1300	772.7	1400
GR	769.2	1402	769.0	1405	769.2	1408	772.8	1410	777.4	1500
GR	781.4	1600	781.5	1700	780.0	1800				
QT	5	1450	2100	2300	4500	2300				
X1	66010	11	1222	1240	532	532	532			
GR	783.2	1000	777.4	1100	777.1	1200	777.7	1222	780.8	1231
GR	770.2	1233	770.8	1238	777.1	1240	779.0	1300	783.1	1400
GR	793.3	1550								
X1	66110	18	1191	1201	100	100	100			
GR	788.0	930	786.1	963	780.3	1063	780.0	1163	780.6	1185
GR	775.7	1191	773.1	1191	773.1	1201	774.0	1201	780.0	1203
GR	781.9	1263	786.0	1363	788.5	1375	788.4	1400	790.9	1500
GR	795.9	1600	802.0	1700	807.2	1794				
SB	0.9	1.5	2.5	0	10	0.01	100			
X1	66190	0	0	0	80	80	80			
X2			1	783.1	788.4					
BT	12	1000	801.6	0	1100	797.6	0	1190.9	792.6	0
BT	1191	792.6	783.1	1201	792.6	783.1	1201.1	792.6	0	1300
BT	788.7	0	1400	788.4	0	1500	790.9	0	1600	795.9
BT	0	1700	802.0	0	1794	807.2	0			
X1	66290	11	1222	1240	100	100	100		5.8	
GR	783.2	1000	777.4	1100	777.1	1200	777.7	1222	780.8	1231
GR	770.2	1233	770.8	1238	777.1	1240	779.0	1300	783.1	1400
GR	793.3	1550								

THIS IS THE END OF THE PROFILE FOR TOWN CREEK

/\*EOF

// \$

// XEQ STOPT

20 6921 1382 531 MK

FIS DAVIDSON-ROWAN COUNTIES

// EOJ

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

C  
 T1 HOWAN CO. BASIN F. STREAM 6 UNNAMED STREAM  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	JDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.007000	0.0	0.0	0.	765.100	0.0
J2	NPROF	IPLOT	PREVS	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
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	475.000	890.000	1120.000	1650.000	1120.000	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	205.000	10.000	1050.000	1060.000	205.000	205.000	205.000	205.000	0.0	-1.400
GR	790.000	600.000	764.500	1000.000	761.100	1050.000	760.100	1053.000	760.100	1055.000
GR	760.100	1057.000	761.900	1060.000	763.700	1100.000	765.300	1200.000	790.000	2453.000





				4000,000	1000,000	1000,000	0.0	0.0	0.0	0.0
X1	1570.000	10.000	1123.000	1137.000	976.000	976.000	976.000	0.0	0.0	0.0
GR	783.500	1000.000	769.300	1024.000	768.600	1123.000	764.700	1124.000	764.300	1128.000
GR	765.200	1135.000	767.500	1137.000	771.200	1200.000	774.500	1300.000	782.400	1470.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1670.000	13.000	1205.000	1211.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	790.400	1000.000	784.000	1080.000	769.800	1104.000	769.100	1203.000	767.800	1205.000
GR	765.700	1205.900	764.800	1208.000	765.700	1210.100	767.800	1211.000	768.000	1217.000
GR	771.700	1280.000	775.000	1380.000	782.900	1550.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	6.000	0.010	28.300	0.0	0.0	0.0

RDND NCSR 254A MXLCEL 770.8 ROELV 777.6

X1	1731.000	0.0	0.0	0.0	61.000	61.000	61.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	770.800	776.200	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	790.400	0.0	1100.000	783.500	0.0	1200.000	777.900	0.0
BT	1205.000	777.600	767.800	1205.900	777.600	769.900	1208.000	777.600	770.800	1210.100
BT	777.600	769.900	1211.000	777.600	767.800	1300.000	776.200	0.0	1400.000	777.400
BT	0.0	1500.000	781.200	0.0	1600.000	786.400	0.0	1667.000	790.400	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1831.000	10.000	1123.000	1137.000	100.000	100.000	100.000	0.0	2.000	0.0
GR	783.500	1000.000	769.300	1024.000	768.600	1123.000	764.700	1124.000	764.300	1128.000
GR	765.200	1135.000	767.500	1137.000	771.200	1200.000	774.500	1300.000	782.400	1470.000
QT	5.000	400.000	765.000	970.000	1430.000	970.000	0.0	0.0	0.0	0.0

X1	2270.000	13.000	1203.000	1220.000	439.000	439.000	439.000	0.0	-1.700	0.0
GR	789.900	1000.000	776.300	1100.000	772.700	1117.000	772.400	1203.000	769.500	1206.000
GR	769.400	1208.000	769.700	1210.000	771.700	1220.000	772.800	1300.000	780.200	1400.000
GR	782.500	1500.000	788.200	1600.000	789.900	1614.000	0.0	0.0	0.0	0.0

X1	2320.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	2370.000	20.000	1319.000	1323.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	791.400	1000.000	785.200	1100.000	781.000	1172.000	775.800	1213.000	772.200	1230.000
GR	771.900	1316.000	770.900	1319.000	769.900	1319.300	769.200	1320.000	768.900	1321.000
GR	769.200	1322.000	769.900	1322.700	770.900	1323.000	771.200	1333.000	772.300	1413.000
GR	777.900	1488.000	778.100	1500.000	780.900	1600.000	784.400	1700.000	788.000	1800.000
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.600	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
X1	2370.000	20.000	1319.000	1323.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	791.400	1000.000	785.200	1100.000	781.000	1172.000	775.800	1213.000	772.200	1230.000
GR	771.900	1316.000	770.900	1319.000	769.900	1319.300	769.200	1320.000	768.900	1321.000
GR	769.200	1322.000	769.900	1322.700	770.900	1323.000	771.200	1333.000	772.300	1413.000
GR	777.900	1488.000	778.100	1500.000	780.900	1600.000	784.400	1700.000	788.000	1800.000
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.600	0.0	0.0	0.0

RDNQ NCSR 2605 MXLCEL 772.9 RDELV 775.9

X1	2430.000	0.0	0.0	0.0	60.000	60.000	60.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	772.900	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	791.400	0.0	1100.000	785.200	0.0	1200.000	779.400	0.0
BT	1300.000	776.200	0.0	1319.000	775.900	770.900	1319.300	775.900	771.900	1320.000
BT	775.900	772.600	1321.000	775.900	772.900	1322.000	775.900	772.600	1322.700	775.900
BT	771.900	1323.000	775.900	770.900	1400.000	776.400	0.0	1500.000	778.100	0.0
BT	1600.000	780.900	0.0	1700.000	784.400	0.0	1800.000	788.000	0.0	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	2480.000	13.300	1293.000	1220.000	50.000	50.000	50.000	0.0	-0.300	0.0
GR	789.900	1000.000	776.300	1100.000	772.700	1117.000	772.400	1203.000	769.500	1206.000
GR	769.400	1208.900	769.700	1210.000	771.700	1220.000	772.200	1300.000	780.200	1400.000
GR	782.500	1500.000	788.200	1600.000	789.900	1614.000	0.0	0.0	0.0	0.0

X1	2530.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
QT	5.000	325.000	630.000	800.000	1220.000	800.000	0.0	0.0	0.0	0.0

X1	3830.000	13.000	1534.000	1545.000	1300.000	1300.000	1300.000	0.0	-0.900	0.0
GR	799.900	1000.000	783.500	1300.000	781.500	1322.000	779.200	1400.000	779.600	1500.000
GR	779.800	1534.000	776.500	1536.000	776.400	1539.000	776.300	1542.000	779.900	1545.000
GR	781.200	1600.000	793.800	1800.000	799.900	1930.000	0.0	0.0	0.0	0.0

X1	3880.000	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	3930.000	17.000	1412.000	1416.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	799.100	1000.000	783.100	1175.000	781.100	1197.000	778.800	1275.000	779.200	1375.000
GR	779.400	1409.000	778.000	1412.000	776.000	1412.000	776.000	1416.000	778.000	1416.000
GR	779.500	1420.000	780.800	1475.000	785.400	1550.000	786.300	1600.000	791.100	1700.000
GR	795.900	1800.000	799.100	1986.000	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	22.000	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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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF  
 SUMMARY PRINTOUT

*50 5 14 4*

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
					<i>758.7</i>							
						<i>758.7</i>						
A 205.000	205.00	0.0	0.0	475.00	758.70	762.60 ✓	0.0	4.96	1007.34	1118.83	147.59	0.0
205.000	205.00	0.0	0.0	890.00	758.70	763.33 ✓	0.0	5.62	996.37	1164.48	249.64	0.73
205.000	205.00	0.0	0.0	1120.00	758.70	763.61 ✓	0.0	5.89	992.00	1181.92	299.58	0.28
205.000	205.00	0.0	0.0	1650.00	758.70	764.14	0.0	6.29	983.66	1212.28	411.18	0.53
305.000	100.00	0.0	0.0	475.00	759.40	762.87 ✓	0.0	6.85	1358.58	1442.38	109.22	0.0
305.000	100.00	0.0	0.0	890.00	759.40	763.59 ✓	0.0	7.79	1348.13	1481.75	184.57	0.71
305.000	100.00	0.0	0.0	1120.00	759.40	763.87 ✓	0.0	8.13	1343.86	1499.20	224.88	0.28
305.000	100.00	0.0	0.0	1650.00	759.40	764.38	0.0	8.53	1335.11	1531.48	315.69	0.52
494.000	189.00	784.40	769.50	475.00	759.40	762.87	0.0	6.89	1358.69	1442.20	108.56	0.0
494.000	189.00	784.40	769.50	890.00	759.40	763.59	0.0	7.78	1348.12	1481.80	184.67	0.71
494.000	189.00	784.40	769.50	1120.00	759.40	763.87	0.0	8.12	1343.85	1499.23	224.95	0.28
494.000	189.00	784.40	769.50	1650.00	759.40	764.38	0.0	8.52	1335.10	1531.52	315.82	0.52
594.000	100.00	0.0	0.0	475.00	760.10	763.41	0.0	7.70	1016.10	1093.46	93.13	0.0
594.000	100.00	0.0	0.0	890.00	760.10	764.12	764.12	8.52	1005.55	1126.45	161.75	0.72
*B 594.000	100.00	0.0	0.0	1120.00	760.10	764.35	764.34	9.20	1002.27	1140.39	190.65	0.23
* 594.000	100.00	0.0	0.0	1650.00	760.10	764.87	764.87	9.50	994.21	1173.11	273.59	0.52

	305.000	100.00	0.0	0.0	1650.00	759.40	764.38	0.0	0.55	1335.11	1531.48	315.89	0.52
	494.000	189.00	784.40	769.50	475.00	759.40	762.87	0.0	6.89	1358.69	1442.20	108.56	0.0
	494.000	189.00	784.40	769.50	890.00	759.40	763.59	0.0	7.78	1348.12	1481.80	184.67	0.71
	494.000	189.00	784.40	769.50	1120.00	759.40	763.87	0.0	8.12	1343.85	1499.23	224.95	0.28
	494.000	189.00	784.40	769.50	1650.00	759.40	764.38	0.0	8.52	1335.10	1531.52	315.82	0.52
	594.000	100.00	0.0	0.0	475.00	760.10	763.41	0.0	7.70	1016.10	1093.46	93.13	0.0
*B	594.000	100.00	0.0	0.0	890.00	760.10	764.12	764.12	8.52	1005.55	1126.45	161.75	0.72
*	594.000	100.00	0.0	0.0	1120.00	760.10	764.35	764.34	9.20	1002.27	1140.39	190.65	0.23
*	594.000	100.00	0.0	0.0	1650.00	760.10	764.87	764.87	9.50	994.21	1173.11	273.59	0.52
	1570.000	976.00	0.0	0.0	460.00	764.30	769.93	0.0	3.48	1022.92	1178.47	216.97	0.0
C	1570.000	976.00	0.0	0.0	870.00	764.30	770.72	0.0	3.94	1021.60	1191.90	344.46	0.78
	1570.000	976.00	0.0	0.0	1080.00	764.30	771.07	0.0	4.05	1021.01	1197.81	405.65	0.35
	1570.000	976.00	0.0	0.0	1600.00	764.30	771.67	0.0	4.47	1019.99	1214.32	516.84	0.60
	1670.000	100.00	0.0	0.0	460.00	764.80	770.09	0.0	5.63	1103.51	1252.63	143.77	0.0
	1670.000	100.00	0.0	0.0	870.00	764.80	770.88	0.0	5.14	1102.19	1265.91	265.74	0.79
	1670.000	100.00	0.0	0.0	1080.00	764.80	771.22	0.0	5.01	1101.61	1271.69	322.43	0.34
	1670.000	100.00	0.0	0.0	1600.00	764.80	771.81	0.0	5.24	1100.62	1283.05	425.87	0.59
	1731.000	61.00	776.20	770.80	460.00	764.80	770.09	0.0	5.64	1103.51	1252.62	143.70	0.0
	1731.000	61.00	776.20	770.80	870.00	764.80	777.71	0.0	0.47	1090.62	1438.49	2033.03	7.62
	1731.000	61.00	776.20	770.80	1080.00	764.80	778.00	0.0	0.56	1090.14	1444.58	2132.40	0.28
	1731.000	61.00	776.20	770.80	1600.00	764.80	778.55	0.0	0.75	1089.20	1456.55	2333.20	0.55
	1831.000	100.00	0.0	0.0	460.00	766.30	770.68	770.68	8.36	1112.26	1157.02	63.04	0.0
D	1831.000	100.00	0.0	0.0	870.00	766.30	777.71	0.0	0.70	1013.16	1326.13	1557.10	7.04
	1831.000	100.00	0.0	0.0	1080.00	766.30	778.00	0.0	0.82	1012.68	1332.19	1646.11	0.28
	1831.000	100.00	0.0	0.0	1600.00	766.30	778.55	0.0	1.09	1011.75	1344.07	1826.18	0.55

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP	
E	2270.000	439.00	0.0	0.0	400.00	767.70	772.57	0.0	1.45	1109.59	1319.86	394.62	0.0
	2270.000	439.00	0.0	0.0	765.00	767.70	777.73	0.0	0.54	1077.03	1389.52	1733.63	5.16
	2270.000	439.00	0.0	0.0	970.00	767.70	778.02	0.0	0.65	1074.93	1393.37	1823.43	0.29
	2270.000	439.00	0.0	0.0	1430.00	767.70	778.58	0.0	0.86	1070.76	1403.33	2007.59	0.57
	2320.000	50.00	0.0	0.0	400.00	768.00	772.60	0.0	1.75	1110.88	1316.16	337.69	0.0
	2320.000	50.00	0.0	0.0	765.00	768.00	777.73	0.0	0.57	1079.18	1385.57	1643.13	5.13
	2320.000	50.00	0.0	0.0	970.00	768.00	778.02	0.0	0.68	1077.06	1389.45	1732.03	0.29
	2320.000	50.00	0.0	0.0	1430.00	768.00	778.58	0.0	0.91	1072.89	1397.12	1912.79	0.57

E	2270.000	439.00	0.0	0.0	400.00	767.70	772.57	0.0	1.45	1109.59	1319.86	394.62	0.0
	2270.000	439.00	0.0	0.0	765.00	767.70	777.73	0.0	0.54	1077.03	1389.52	1753.63	5.16
	2270.000	439.00	0.0	0.0	970.00	767.70	778.02	0.0	0.65	1074.93	1393.37	1823.43	0.29
	2270.000	439.00	0.0	0.0	1430.00	767.70	778.58	0.0	0.86	1070.76	1403.33	2007.59	0.57
	2320.000	50.00	0.0	0.0	400.00	768.00	772.60	0.0	1.75	1110.88	1316.16	337.69	0.0
	2320.000	50.00	0.0	0.0	765.00	768.00	777.73	0.0	0.57	1079.18	1385.57	1643.13	5.13
	2320.000	50.00	0.0	0.0	970.00	768.00	778.02	0.0	0.68	1077.06	1389.45	1752.03	0.29
	2320.000	50.00	0.0	0.0	1430.00	768.00	778.58	0.0	0.91	1072.89	1397.12	1912.79	0.57
	2370.000	50.00	0.0	0.0	400.00	768.90	772.58	0.0	4.85	1228.21	1416.75	144.23	0.0
	2370.000	50.00	0.0	0.0	765.00	768.90	777.73	0.0	0.58	1197.77	1485.75	1362.08	5.15
	2370.000	50.00	0.0	0.0	970.00	768.90	778.02	0.0	0.68	1195.50	1495.19	1446.12	0.29
	2370.000	50.00	0.0	0.0	1430.00	768.90	778.58	0.0	0.89	1191.02	1517.43	1624.44	0.57
	2430.000	60.00	775.90	772.90	400.00	768.90	772.58	0.0	4.85	1228.21	1416.74	144.14	0.0
	2430.000	60.00	775.90	772.90	765.00	768.90	777.99	0.0	0.54	1195.72	1493.47	1437.51	5.41
	2430.000	60.00	775.90	772.90	970.00	768.90	778.27	0.0	0.65	1193.46	1506.37	1525.48	0.29
	2430.000	60.00	775.90	772.90	1430.00	768.90	778.85	0.0	0.84	1188.91	1526.97	1713.22	0.58
	2480.000	50.00	0.0	0.0	400.00	769.10	772.77	0.0	4.29	1115.22	1303.74	156.69	0.0
	2480.000	50.00	0.0	0.0	765.00	769.10	777.99	0.0	0.67	1085.39	1374.15	1391.68	5.21
	2480.000	50.00	0.0	0.0	970.00	769.10	778.27	0.0	0.80	1083.29	1378.01	1475.02	0.29
	2480.000	50.00	0.0	0.0	1430.00	769.10	778.85	0.0	1.06	1079.04	1385.82	1648.81	0.58
	2530.000	50.00	0.0	0.0	400.00	769.40	773.15	0.0	3.89	1114.87	1304.75	170.88	0.0
F	2530.000	50.00	0.0	0.0	765.00	769.40	777.99	0.0	0.72	1087.58	1370.11	1306.40	4.83
	2530.000	50.00	0.0	0.0	970.00	769.40	778.27	0.0	0.86	1085.48	1373.98	1388.16	0.29
	2530.000	50.00	0.0	0.0	1430.00	769.40	778.85	0.0	1.12	1081.22	1381.81	1558.66	0.58
	3830.000	1300.00	0.0	0.0	325.00	775.40	779.49	0.0	2.96	1359.79	1565.55	185.98	0.0
*	3830.000	1300.00	0.0	0.0	630.00	775.40	779.36	779.36	6.74	1363.96	1560.35	161.24	-0.15
*	3830.000	1300.00	0.0	0.0	800.00	775.40	779.50	779.50	7.15	1359.28	1566.19	189.10	0.14
*	3830.000	1300.00	0.0	0.0	1220.00	775.40	779.72	779.72	8.41	1351.73	1575.61	257.07	0.22
	3880.000	50.00	0.0	0.0	325.00	775.60	779.68	0.0	3.00	1360.14	1565.11	183.84	0.0
G	3880.000	50.00	0.0	0.0	630.00	775.60	780.08	0.0	3.71	1346.55	1582.08	272.17	0.41
	3880.000	50.00	0.0	0.0	800.00	775.60	780.27	0.0	3.95	1340.28	1589.90	317.01	0.16
	3880.000	50.00	0.0	0.0	1220.00	775.60	780.67	0.0	4.30	1326.53	1602.65	424.13	0.40
	3930.000	50.00	0.0	0.0	325.00	776.00	779.78	0.0	4.21	1241.58	1432.06	135.77	0.0
	3930.000	50.00	0.0	0.0	630.00	776.00	780.21	0.0	4.36	1227.39	1449.78	222.17	0.43
	3930.000	50.00	0.0	0.0	800.00	776.00	780.40	0.0	4.44	1221.03	1457.71	265.21	0.15
	3930.000	50.00	0.0	0.0	1220.00	776.00	780.79	0.0	4.56	1207.56	1474.52	365.23	0.35
	3970.000	40.00	783.70	781.50	325.00	776.00	779.78	0.0	4.21	1241.59	1432.05	135.69	0.0
	3970.000	40.00	783.70	781.50	630.00	776.00	780.21	0.0	4.33	1227.18	1450.04	223.53	0.43
	3970.000	40.00	783.70	781.50	800.00	776.00	780.40	0.0	4.41	1220.86	1457.92	266.37	0.15
	3970.000	40.00	783.70	781.50	1220.00	776.00	780.79	0.0	4.56	1207.57	1474.50	365.11	0.35

3880.000	50.00	0.0	0.0	500.00	775.60	780.27	0.0	3.90	1340.20	1509.90	317.01	0.11
3880.000	50.00	0.0	0.0	1220.00	775.60	780.67	0.0	4.30	1326.53	1602.65	424.13	0.40
3930.000	50.00	0.0	0.0	325.00	776.00	779.73	0.0	4.21	1241.58	1432.06	135.77	0.0
3930.000	50.00	0.0	0.0	630.00	776.00	780.21	0.0	4.36	1227.39	1449.78	222.17	0.43
3930.000	50.00	0.0	0.0	800.00	776.00	780.40	0.0	4.44	1221.03	1457.71	265.21	0.19
3930.000	50.00	0.0	0.0	1220.00	776.00	780.79	0.0	4.56	1207.56	1474.52	365.23	0.39
3970.000	40.00	783.70	781.50	325.00	776.00	779.78	0.0	4.21	1241.59	1432.05	135.69	0.0
3970.000	40.00	783.70	781.50	630.00	776.00	780.21	0.0	4.33	1227.18	1450.04	223.53	0.43
3970.000	40.00	783.70	781.50	800.00	776.00	780.40	0.0	4.41	1220.86	1457.92	266.37	0.19
3970.000	40.00	783.70	781.50	1220.00	776.00	780.79	0.0	4.56	1207.57	1474.50	365.11	0.39
4020.000	50.00	0.0	0.0	325.00	776.10	779.95	0.0	4.05	1367.62	1555.79	140.50	0.0
4020.000	50.00	0.0	0.0	630.00	776.10	780.37	0.0	4.60	1353.46	1573.45	225.71	0.42
4020.000	50.00	0.0	0.0	800.00	776.10	780.56	0.0	4.80	1347.20	1581.26	267.62	0.19
4020.000	50.00	0.0	0.0	1220.00	776.10	780.94	0.0	5.15	1334.08	1597.63	363.90	0.39

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
4070.000	50.00	0.0	0.0	325.00	776.30	780.30	0.0	3.29	1362.56	1562.10	169.45	0.0
4070.000	50.00	0.0	0.0	630.00	776.30	780.75	0.0	3.80	1347.37	1581.05	266.44	0.43
4070.000	50.00	0.0	0.0	800.00	776.30	780.95	0.0	4.00	1340.76	1589.30	313.46	0.19
4070.000	50.00	0.0	0.0	1220.00	776.30	781.34	0.0	4.37	1327.22	1602.32	418.48	0.40
6000.000	1930.00	0.0	0.0	192.00	789.10	792.45	0.0	2.85	1168.50	1250.42	71.35	0.0
6000.000	1930.00	0.0	0.0	395.00	789.10	793.11	0.0	3.02	1155.00	1273.41	137.53	0.66
6000.000	1930.00	0.0	0.0	510.00	789.10	793.37	0.0	3.16	1149.79	1282.19	169.55	0.26
6000.000	1930.00	0.0	0.0	810.00	789.10	793.83	0.0	3.67	1141.79	1297.60	236.33	0.46
8425.000	2425.00	0.0	0.0	53.00	814.90	817.80	0.0	3.22	1208.99	1239.52	22.35	0.0
8425.000	2425.00	0.0	0.0	145.00	814.90	818.28	818.10	5.32	1200.38	1246.41	40.80	0.47
8425.000	2425.00	0.0	0.0	195.00	814.90	818.43	818.39	6.05	1198.41	1248.60	48.20	0.16
8425.000	2425.00	0.0	0.0	335.00	814.90	818.78	818.78	7.27	1194.22	1252.73	67.17	0.35

SUMMARY OF ERRORS

CAUTION SECNO= 594.000 PROFIL= 2 CRITICAL DEPTH ASSUMED

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

C  
 T1 FAITH-ROWAN COUNTY BASIN G 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	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	2.	0.	0.	0.046000	0.0	0.0	0.	725.600	0.0

J2	NPROF	IPL0T	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

MADE IN U.S.A.



10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

MADE IN U.S.A.

SECCG	XLCH	ELTRD	ELLC	Q	ELMIN	CVSEL	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	1289.88	198.58	0.7
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	1.1
* 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	0.5
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	737.92	0.0	8.47	1280.45	1444.94	208.01	0.5
* 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	0.8
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	0.9
<p><i>ROWAN CO. FAITH CORP. LIMITS</i></p>												
* A 6298,000	950.00	0.0	0.0	315.00	763.30	768.07	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	1.4
* 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	1.6
6898,000	50.00	0.0	0.0	235.00	775.20	778.80	0.0	8.16	1148.88	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	1.9
* 6964,000	66.00	786.10	779.20	235.00	775.20	780.69	0.0	3.70	1129.72	1175.38	81.10	0.0
* 6964,000	66.00	786.10	779.20	561.00	775.20	737.20	0.0	0.82	1061.22	1270.48	909.74	6.5
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	6.7
* 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	0.5

SUMMARY OF ERRORS



X1	43575.000	0.0	0.0	0.0	475.000	475.000	475.000	0.0	0.0	0.0
NC	0.090	0.090	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	45200.000	13.000	442.000	460.000	1625.000	1625.000	1625.000	0.0	0.0	0.0
GR	735.500	0.0	728.400	132.000	727.200	185.000	726.100	275.000	726.600	348.000
GR	726.100	367.000	726.700	442.000	722.300	445.000	723.000	448.000	723.300	457.000
GR	726.800	460.000	730.600	505.000	735.500	550.000	0.0	0.0	0.0	0.0
QT	1.000	5300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	46650.000	15.000	433.000	455.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
GR	748.100	0.0	737.200	110.000	732.600	175.000	730.500	248.000	729.200	305.000
GR	729.000	430.000	729.500	433.000	726.500	440.000	726.000	445.000	726.500	454.000
GR	729.500	455.000	729.200	660.000	730.400	682.000	740.000	736.000	748.100	755.000
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	48100.000	20.000	430.000	450.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
GR	746.000	0.0	742.000	103.000	735.200	136.000	733.000	175.000	732.200	360.000
GR	733.500	425.000	732.200	430.000	728.300	432.000	727.700	440.000	728.000	447.000
GR	733.500	450.000	733.000	460.000	733.500	530.000	732.500	560.000	732.500	660.000
GR	733.200	700.000	735.800	775.000	737.800	825.000	737.800	840.000	746.000	945.000
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	5300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	49700.000	16.000	570.000	600.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
GR	749.500	0.0	746.700	130.000	743.800	160.000	738.500	285.000	736.500	340.000
GR	736.300	500.000	736.800	555.000	735.200	570.000	732.000	574.000	730.500	585.000
GR	736.500	590.000	736.500	600.000	735.800	635.000	737.500	695.000	740.600	735.000
GR	749.500	900.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	1.000	5200.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	49785.000	14.000	856.000	895.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	755.800	0.0	749.700	205.000	748.500	315.000	746.200	410.000	743.600	615.000
GR	743.600	700.000	745.200	855.000	735.200	856.000	730.200	870.000	730.200	890.000
GR	734.500	895.000	745.200	896.000	747.000	995.000	756.000	1255.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	39.000	0.100	381.000	0.0	0.0	0.0
X1	49815.000	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	741.200	745.200	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	755.800	0.0	205.000	749.700	0.0	315.000	748.500	0.0
BT	410.000	746.200	0.0	615.000	743.600	0.0	790.000	743.600	0.0	856.000
BT	745.200	741.100	895.000	745.200	741.200	995.000	747.000	0.0	1255.000	756.000
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0

SR	734.500	895.700	745.200	896.000	747.000	995.000	756.000	1255.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	39.000	0.100	381.000	0.0	0.0	0.0
X1	49815.000	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	741.200	745.200	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	755.800	0.0	205.000	749.700	0.0	315.000	748.500	0.0
BT	410.000	746.200	0.0	615.000	743.600	0.0	700.000	743.600	0.0	856.000
BT	745.200	741.100	895.000	745.200	741.200	995.000	747.000	0.0	1255.000	756.000
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	49900.000	17.000	415.000	465.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	746.000	0.0	743.200	65.000	739.300	105.000	737.500	175.000	736.500	300.000
GR	737.100	360.000	737.000	380.000	731.400	384.000	731.000	396.000	736.400	405.000
GR	736.400	415.000	727.200	435.000	737.000	465.000	737.400	485.000	739.600	620.000
GR	735.000	635.000	746.000	650.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	51350.000	15.000	520.000	540.000	1450.000	1450.000	1450.000	0.0	0.0	0.0
GR	751.000	0.0	743.600	138.000	737.500	325.000	738.200	415.000	737.500	425.000
GR	737.700	520.000	732.000	522.000	732.800	538.000	736.500	540.000	737.000	546.000
GR	737.600	605.000	737.500	710.000	739.800	725.000	742.500	775.000	751.000	875.000
NC	0.095	0.095	0.070	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	5200.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	519.600	0.0	0.0	0.0	610.000	610.000	610.000	0.0	2.300	0.0
X1	525.800	0.0	0.0	0.0	620.000	620.000	620.000	0.0	2.300	0.0
X1	53200.000	15.000	332.000	360.000	620.000	620.000	620.000	0.0	0.0	0.0
GR	755.000	0.0	750.500	125.000	748.100	135.000	746.300	150.000	745.000	250.000
GR	743.200	320.000	743.300	332.000	739.500	342.000	739.000	350.000	739.600	356.000
GR	742.100	360.000	746.400	380.000	751.400	435.000	751.500	465.000	755.000	515.000
BT	1.000	5100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	53295.000	11.000	458.000	533.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	763.000	0.0	759.700	75.000	751.600	355.000	751.800	458.000	746.500	458.000
GR	740.600	482.000	740.300	518.000	746.300	533.000	751.800	533.000	753.300	636.000
GR	763.000	930.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR	1.250	1.500	2.500	0.0	75.000	1.000	599.000	0.0	0.0	0.0
X1	53415.000	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0



500 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECH0	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
43100.000	43100.00	0.0	0.0	5350.00	719.31	730.30	0.0	0.33	157.63	737.45	3294.27	0.0
43575.000	475.00	0.0	0.0	5350.00	719.31	730.32	0.0	2.68	157.38	737.55	3300.99	0.0
45200.000	1625.00	0.0	0.0	5350.00	722.30	732.29	0.0	3.96	59.64	520.54	2206.48	0.0
46650.000	1450.00	0.0	0.0	5300.00	726.00	734.85	0.0	3.14	143.22	707.03	2766.10	0.0
48100.000	1450.00	0.0	0.0	5300.00	727.70	737.22	0.0	3.59	126.21	810.44	2783.28	0.0
<del>48100.000</del>	1450.00	0.0	0.0	5300.00	730.50	740.91	0.0	4.70	228.25	740.68	2003.34	0.0
* 49785.000	85.00	0.0	0.0	5200.00	730.20	739.54	739.54	16.31	855.57	895.47	320.72	0.0
49815.000	30.00	745.20	741.20	5200.00	730.20	740.75	0.0	14.19	855.44	895.59	369.55	0.0
49900.000	85.00	0.0	0.0	5200.00	727.20	744.25	0.0	2.27	40.63	647.61	4102.98	0.0
51350.000	1450.00	0.0	0.0	5200.00	732.00	744.90	0.0	2.28	113.69	803.27	4054.78	0.0
519.600	610.00	0.0	0.0	5200.00	734.30	745.38	0.0	3.22	153.86	781.85	2851.17	0.0
525.800	620.00	0.0	0.0	5200.00	736.60	746.64	0.0	4.30	186.06	766.33	2215.76	0.0
<del>525.800</del>	620.00	0.0	0.0	5200.00	739.00	749.19	0.0	7.50	130.42	410.80	1208.29	0.0
53285.000	85.00	0.0	0.0	5100.00	740.30	749.43	0.0	9.17	458.00	533.00	556.23	0.0
53315.000	30.00	751.80	750.80	5100.00	740.30	749.52	0.0	9.06	458.00	533.00	562.94	0.0
53400.000	85.00	0.0	0.0	5100.00	738.50	751.10	0.0	3.32	59.74	476.84	2426.17	0.0
54700.000	1300.00	0.0	0.0	5050.00	740.60	752.47	0.0	2.39	48.23	670.72	3253.49	0.0
56600.000	1900.00	0.0	0.0	5000.00	746.30	754.26	0.0	2.63	163.60	927.65	2647.01	0.0

SUMMARY OF ERRORS

CAUTION SECNO=49785.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO=49785.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

RTOWN3 TIMF--0:18.9

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

T1 TOWN CREEK THIRD PORTION WITH M-6 SURVEY  
T2 FLOODPLAIN STUDIES OF ROWAN COUNTY  
T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.0	0.0	0.0	0.	751.300	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	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.075	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1630.000	2204.000	2611.000	5000.000	2611.000	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

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 0.0 0.0 0.0 0.0 0.0 0.0

NC 0.095 0.095 0.075 0.100 0.300 0.0 0.0 0.0 0.0 0.0  
QT 5.000 1630.000 2284.000 2611.000 5000.000 2611.000 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 56600.000 23.000 629.000 755.000 56600.000 56600.000 56600.000 0.0 0.0 0.0  
GR 763.100 0.0 761.500 135.000 757.100 155.000 750.500 175.000 754.500 238.000  
GR 757.100 248.000 754.300 317.000 754.500 365.000 751.600 502.000 751.400 534.000  
GR 746.600 628.000 746.300 734.000 746.500 755.600 746.400 792.000 746.400 814.000  
GR 753.500 840.000 747.500 842.000 747.000 845.000 747.500 855.000 751.500 857.000  
GR 751.500 892.000 754.600 932.000 763.500 975.000 0.0 0.0 0.0 0.0

X1 583.750 0.0 0.0 0.0 1775.000 1775.000 1775.000 0.0 0.350 0.0  
NC 0.095 0.095 0.075 0.100 0.300 0.0 0.0 0.0 0.0 0.0  
QT 5.000 1560.000 2225.000 2600.000 5000.000 2600.000 0.0 0.0 0.0 0.0

X1 60150.000 13.000 665.000 693.000 1775.000 1775.000 1775.000 0.0 0.0 0.0  
GR 766.000 0.0 762.200 255.000 761.700 412.000 759.000 525.000 759.500 650.000  
GR 759.000 665.000 756.800 680.000 755.500 683.000 755.500 690.000 758.800 693.000  
GR 760.000 730.000 759.800 832.000 766.000 845.000 0.0 0.0 0.0 0.0  
NC 0.095 0.095 0.075 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 60240.000 12.000 1290.000 1315.000 90.000 90.000 90.000 0.0 0.0 0.0  
GR 779.000 0.0 775.500 90.000 771.200 260.000 766.000 645.000 763.600 1000.000  
GR 765.000 1289.000 756.200 1290.000 756.200 1310.000 758.600 1315.000 765.500 1316.000  
GR 766.900 1415.000 779.000 1560.000 0.0 0.0 0.0 0.0 0.0 0.0  
SB 0.900 1.500 2.500 0.0 25.000 0.100 187.000 0.0 0.0 0.0

X1 60260.000 0.0 0.0 0.0 20.000 20.000 20.000 0.0 0.0 0.0  
X2 0.0 0.0 1.000 764.000 765.000 0.0 0.0 0.0 0.0 0.0  
BT 7.000 0.0 779.000 0.0 90.000 775.500 0.0 260.000 771.200 0.0  
BT 645.000 766.000 0.0 1000.000 763.600 0.0 1290.000 765.000 763.800 1315.000  
HT 765.500 764.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  
NC 0.095 0.095 0.075 0.100 0.300 0.0 0.0 0.0 0.0 0.0



60250

X1	60260.000	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	764.000	765.000	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	779.000	0.0	90.000	775.500	0.0	260.000	771.200	0.0
BT	645.000	766.000	0.0	1000.000	763.600	0.0	1290.000	765.000	763.800	1315.000
BT	765.500	764.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.075	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	603.050	12.000	534.000	548.000	45.000	45.000	45.000	0.0	-0.350	0.0
GR	770.500	0.0	763.000	25.000	760.500	260.000	760.500	490.000	758.600	510.000
GR	760.000	530.000	759.500	534.000	755.700	537.000	757.000	545.000	760.000	548.000
GR	760.000	565.000	770.500	620.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	60350.000	0.0	0.0	0.0	45.000	45.000	45.000	0.0	1.550	0.0
QT	5.000	1500.000	2180.000	2400.000	4600.000	2400.000	0.0	0.0	0.0	0.0

X1	613.000	0.0	0.0	0.0	950.000	950.000	950.000	0.0	2.200	0.0
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X1	622.500	0.0	0.0	0.0	950.000	950.000	950.000	0.0	2.200	0.0
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X1	63200.000	12.000	1209.000	1224.000	950.000	950.000	950.000	0.0	0.0	0.0
GR	783.400	1000.000	774.700	1100.000	769.300	1200.000	768.200	1209.000	763.600	1210.000
GR	763.500	1216.000	764.200	1221.000	766.200	1224.000	766.200	1300.000	766.600	1400.000
GR	777.800	1500.000	781.400	1542.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1450.000	2150.000	2325.000	4600.000	2325.000	0.0	0.0	0.0	0.0

X1	65122.000	13.000	1400.000	1410.000	1922.000	1922.000	1922.000	0.0	-2.000	0.0
GR	774.900	1000.000	775.400	1100.000	776.200	1200.000	777.200	1300.000	772.700	1400.000
GR	769.200	1402.000	769.000	1405.000	769.200	1408.000	772.800	1410.000	777.400	1500.000
GR	781.400	1600.000	781.500	1700.000	780.000	1800.000	0.0	0.0	0.0	0.0

65300

X1	65222.000	14.000	1393.200	1406.900	100.000	100.000	100.000	0.0	0.0	0.0
GR	783.000	800.000	773.900	995.000	774.400	1095.000	775.200	1195.000	776.200	1295.000
GR	771.700	1393.200	768.000	1393.200	768.000	1406.900	771.700	1406.900	776.400	1495.000
GR	780.400	1595.000	780.500	1600.000	780.300	1700.000	780.200	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	13.700	0.010	139.740	0.0	0.0	0.0

X1	65378.000	0.0	0.0	0.0	156.000	156.000	156.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	778.200	780.200	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	781.600	0.0	1100.000	781.400	0.0	1200.000	781.300	0.0
BT	1300.000	781.000	0.0	1393.100	781.300	0.0	1393.200	781.300	776.200	1406.900



1000-10-14-4  
3rd Profile

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
ERROR CORR - 01  
MODIFICATION - 50,51,52  
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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
56600.000	56600.00	0.0	0.0	1630.00	746.30	751.30	0.0	1.71	172.58	856.90	1171.22	0.0
56600.000	56600.00	0.0	0.0	2284.00	746.30	752.30	0.0	1.86	169.55	902.32	1581.04	1.00
56600.000	56600.00	0.0	0.0	2611.00	746.30	752.70	0.0	1.93	168.33	907.49	1772.70	0.40
56600.000	56600.00	0.0	0.0	5000.00	746.30	754.24	0.0	2.64	163.67	927.36	2633.15	1.54
583.750	1775.00	0.0	0.0	1630.00	746.65	752.50	0.0	1.38	170.02	900.32	1510.36	0.0
583.750	1775.00	0.0	0.0	2284.00	746.65	753.46	0.0	1.54	167.10	912.74	1981.26	0.96
583.750	1775.00	0.0	0.0	2611.00	746.65	753.86	0.0	1.61	165.88	917.91	2200.12	0.40
583.750	1775.00	0.0	0.0	5000.00	746.65	755.75	0.0	2.09	160.17	935.84	3437.63	1.89
60150.000	1775.00	0.0	0.0	1560.00	755.50	760.40	760.40	7.96	466.49	833.25	383.98	0.0
60150.000	1775.00	0.0	0.0	2225.00	755.50	760.73	760.73	8.49	452.67	833.95	507.44	0.34
* 60150.000	1775.00	0.0	0.0	2600.00	755.50	760.86	760.86	8.98	447.32	834.21	556.57	0.13
* 60150.000	1775.00	0.0	0.0	5000.00	755.50	761.59	761.59	10.73	416.59	835.75	852.45	0.73
60240.000	90.00	0.0	0.0	1560.00	756.20	762.34	0.0	10.55	1289.30	1315.54	150.62	0.0
60240.000	90.00	0.0	0.0	2225.00	756.20	762.68	762.68	14.23	1289.26	1315.59	159.48	0.34
* 60240.000	90.00	0.0	0.0	2600.00	756.20	763.28	763.28	15.17	1289.20	1315.68	175.33	0.60
* 60240.000	90.00	0.0	0.0	5000.00	756.20	766.25	766.25	9.65	626.27	1369.26	1357.92	2.98
60260.000	20.00	765.00	764.00	1560.00	756.20	762.38	0.0	10.48	1289.30	1315.55	151.63	0.0
* 60260.000	20.00	765.00	764.00	2225.00	756.20	762.82	0.0	13.91	1289.25	1315.61	163.31	0.44
* 60260.000	20.00	765.00	764.00	2600.00	756.20	763.16	0.0	15.41	1289.21	1315.66	172.54	0.35
60260.000	20.00	765.00	764.00	5000.00	756.20	766.37	0.0	9.02	616.89	1378.22	1453.22	3.21

MA

MB

2-16-78  
2-16-78

WEBB RD. NCR 1500

60240.000	20.00	0.0	0.0	2000.00	756.20	766.25	766.25	10.17	1289.20	1315.60	1357.92	2.98
60240.000	20.00	0.0	0.0	5000.00	756.20	766.25	766.25	9.65	626.27	1369.26	1357.92	2.98
60260.000	20.00	765.00	764.00	1560.00	756.20	762.38	0.0	10.48	1289.30	1315.55	151.63	0.0
60260.000	20.00	765.00	764.00	2225.00	756.20	762.82	0.0	13.91	1289.25	1315.61	163.31	0.44
60260.000	20.00	765.00	764.00	2600.00	756.20	763.16	0.0	15.41	1289.21	1315.66	172.54	0.35
60260.000	20.00	765.00	764.00	5000.00	756.20	766.37	0.0	9.02	616.89	1378.22	1453.22	3.21
603.050	45.00	0.0	0.0	1560.00	755.35	764.29	0.0	1.26	19.55	589.28	2102.56	0.0
603.050	45.00	0.0	0.0	2225.00	755.35	766.14	0.0	1.09	13.41	598.93	3166.70	1.84
603.050	45.00	0.0	0.0	2600.00	755.35	767.22	0.0	1.02	9.76	604.66	3811.89	1.09
603.050	45.00	0.0	0.0	5000.00	755.35	767.08	0.0	2.01	10.23	603.93	3729.46	-0.14
60350.000	45.00	0.0	0.0	1560.00	756.90	764.31	0.0	2.42	24.64	581.28	1242.38	0.0
60350.000	45.00	0.0	0.0	2225.00	756.90	766.14	0.0	1.62	18.52	590.90	2278.93	1.84
60350.000	45.00	0.0	0.0	2600.00	756.90	767.23	0.0	1.41	14.91	596.57	2903.71	1.08
60350.000	45.00	0.0	0.0	5000.00	756.90	767.11	0.0	2.79	15.31	595.94	2833.76	-0.12
613.000	950.00	0.0	0.0	1500.00	759.10	766.24	0.0	2.70	40.56	579.85	1091.59	0.0
613.000	950.00	0.0	0.0	2180.00	759.10	767.02	0.0	2.62	22.95	583.94	1526.11	0.78
613.000	950.00	0.0	0.0	2400.00	759.10	767.75	0.0	2.14	20.49	587.81	1942.41	0.74
613.000	950.00	0.0	0.0	4600.00	759.10	768.65	0.0	3.06	17.51	592.49	2453.14	0.90

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
622.500	950.00	0.0	0.0	1500.00	761.30	768.45	0.0	2.66	38.40	579.97	1104.02	0.0
622.500	950.00	0.0	0.0	2180.00	761.30	769.01	0.0	2.88	23.62	582.88	1412.44	0.56
622.500	950.00	0.0	0.0	2400.00	761.30	769.20	0.0	2.92	23.03	583.81	1512.16	0.19
622.500	950.00	0.0	0.0	4600.00	761.30	770.62	0.0	3.28	18.26	591.30	2323.24	1.43
63200.000	950.00	0.0	0.0	1500.00	763.50	770.36	0.0	2.39	1180.43	1433.54	892.72	0.0
63200.000	950.00	0.0	0.0	2180.00	763.50	771.12	0.0	2.80	1166.34	1440.34	1093.20	0.76
63200.000	950.00	0.0	0.0	2400.00	763.50	771.33	0.0	2.92	1162.42	1442.22	1151.79	0.21
63200.000	950.00	0.0	0.0	4600.00	763.50	773.00	0.0	3.85	1131.48	1457.14	1657.59	1.67
65122.000	1922.00	0.0	0.0	1450.00	767.00	775.18	0.0	3.68	1000.00	1495.65	871.94	0.0
65122.000	1922.00	0.0	0.0	2150.00	767.00	775.94	0.0	3.49	1000.00	1513.39	1253.84	0.76
65122.000	1922.00	0.0	0.0	2325.00	767.00	776.13	0.0	3.43	1000.00	1518.03	1349.67	0.19
65122.000	1922.00	0.0	0.0	4600.00	767.00	777.90	0.0	3.43	1000.00	1562.46	2309.61	1.77
65222.000	100.00	0.0	0.0	1450.00	768.00	775.61	0.0	4.59	958.21	1480.32	684.16	0.0
65222.000	100.00	0.0	0.0	2150.00	768.00	776.30	0.0	4.50	943.65	1493.05	1027.42	0.61
65222.000	100.00	0.0	0.0	2325.00	768.00	776.47	0.0	4.40	939.99	1496.68	1122.02	0.17

63200.000	950.00	0.0	0.0	1500.00	763.50	770.36	0.0	2.39	1100.43	1433.54	892.72	0.0
63200.000	950.00	0.0	0.0	2100.00	763.50	771.12	0.0	2.80	1166.34	1440.34	1093.20	0.76
63200.000	950.00	0.0	0.0	2400.00	763.50	771.33	0.0	2.92	1162.42	1442.22	1151.79	0.21
63200.000	950.00	0.0	0.0	4600.00	763.50	773.00	0.0	3.85	1131.48	1457.14	1657.59	1.67
65122.000	1922.00	0.0	0.0	1450.00	767.00	775.18	0.0	3.68	1000.00	1495.65	871.94	0.0
65122.000	1922.00	0.0	0.0	2150.00	767.00	775.94	0.0	3.49	1000.00	1513.39	1253.84	0.76
65122.000	1922.00	0.0	0.0	2325.00	767.00	776.13	0.0	3.43	1000.00	1518.03	1349.67	0.19
65122.000	1922.00	0.0	0.0	4600.00	767.00	777.90	0.0	3.43	1000.00	1562.46	2309.61	1.77
65222.000	100.00	0.0	0.0	1450.00	768.00	775.61	0.0	4.59	950.21	1480.32	684.16	0.0
65222.000	100.00	0.0	0.0	2150.00	768.00	776.30	0.0	4.50	943.65	1493.05	1027.42	0.68
65222.000	100.00	0.0	0.0	2325.00	768.00	776.47	0.0	4.40	939.99	1496.68	1122.02	0.17
65222.000	100.00	0.0	0.0	4600.00	768.00	778.15	0.0	3.96	903.09	1538.80	2125.73	1.68
65378.000	156.00	780.20	778.20	1450.00	768.00	775.61	0.0	4.59	950.24	1480.29	683.47	0.0
65378.000	156.00	780.20	778.20	2150.00	768.00	776.30	0.0	4.51	943.66	1493.05	1027.29	0.68
65378.000	156.00	780.20	778.20	2325.00	768.00	776.47	0.0	4.40	939.99	1496.68	1121.92	0.17
65378.000	156.00	780.20	778.20	4600.00	768.00	782.13	0.0	1.36	010.46	1800.00	5559.36	5.67
65478.000	100.00	0.0	0.0	1450.00	769.00	776.42	0.0	6.04	1000.00	1480.79	558.35	0.0
65478.000	100.00	0.0	0.0	2150.00	769.00	776.99	0.0	6.10	1000.00	1492.07	784.04	0.56
65478.000	100.00	0.0	0.0	2325.00	769.00	777.12	0.0	6.09	1000.00	1494.59	845.26	0.13
65478.000	100.00	0.0	0.0	4600.00	769.00	782.16	0.0	1.93	1000.00	1800.00	3849.67	5.04
66010.000	532.00	0.0	0.0	1450.00	770.20	780.35	0.0	2.65	1049.07	1333.01	693.17	0.0
66010.000	532.00	0.0	0.0	2100.00	770.20	780.96	0.0	2.89	1030.57	1347.87	873.54	0.61
66010.000	532.00	0.0	0.0	2300.00	770.20	781.11	0.0	2.99	1036.05	1351.44	919.24	0.15
66010.000	532.00	0.0	0.0	4500.00	770.20	782.72	0.0	3.57	1000.33	1390.65	1480.02	1.61
* 66110.000	100.00	0.0	0.0	1450.00	773.10	781.65	781.65	8.91	1039.76	1255.03	353.65	0.0
* 66110.000	100.00	0.0	0.0	2100.00	773.10	782.12	782.12	10.00	1031.61	1268.38	460.73	0.47
* 66110.000	100.00	0.0	0.0	2300.00	773.10	782.24	782.24	10.30	1029.59	1271.23	488.76	0.17
66110.000	100.00	0.0	0.0	4500.00	773.10	783.10	0.0	13.39	1014.62	1292.42	714.33	0.86
* 66190.000	80.00	780.40	783.10	1450.00	773.10	782.13	0.0	6.86	1031.43	1268.63	463.22	0.0
66190.000	80.00	780.40	783.10	2100.00	773.10	782.12	0.0	9.99	1031.59	1268.41	461.08	-0.01
66190.000	80.00	780.40	783.10	2300.00	773.10	782.24	0.0	10.29	1029.57	1271.27	489.12	0.12
66190.000	80.00	780.40	783.10	4500.00	773.10	791.75	0.0	1.64	930.00	1517.12	4504.70	9.51
* 66290.000	100.00	0.0	0.0	1450.00	776.00	784.47	784.47	8.67	1078.14	1289.50	280.74	0.0
66290.000	100.00	0.0	0.0	2100.00	776.00	785.16	0.0	7.14	1066.29	1308.66	433.36	0.65
66290.000	100.00	0.0	0.0	2300.00	776.00	785.31	0.0	6.99	1063.57	1312.50	471.40	0.15
66290.000	100.00	0.0	0.0	4500.00	776.00	791.77	0.0	1.76	1000.00	1442.18	2837.37	6.45

SUMMARY OF ERRORS



SECNO	D	ELMIN	XLREL	RREI	ELLC	EQUMC	ELTRD	EQBBS	CHGFL	CRJUS	FC	DFRTH
14270.00	9200.00	651.00	657.40	650.70	666.00	646.37	674.00	665.31	664.13	0	656.37	13.13
14270.00	9200.00	651.00	657.40	650.70	666.00	646.37	674.00	665.30	664.13	0	656.37	13.13
14350.00	9200.00	648.20	655.20	655.50	0	0	0	0	647.71	0	647.80	19.51
14350.00	9200.00	648.20	655.20	655.50	0	0	0	0	647.71	0	647.80	19.51
14575.00	4600.00	657.20	666.20	646.20	0	0	0	0	649.94	0	670.07	12.74
14575.00	4600.00	657.20	666.20	646.20	0	0	0	0	670.23	0	670.40	12.03
20020.00	4200.00	641.80	670.30	669.40	0	0	0	0	675.62	0	675.82	11.92
20020.00	4200.00	641.80	670.30	669.40	0	0	0	0	674.71	0	674.90	12.93
21900.00	4200.00	669.00	675.70	676.10	0	0	0	0	680.42	0	680.66	11.42
21900.00	4200.00	669.00	675.70	676.10	0	0	0	0	641.54	0	641.70	12.74
24560.00	4000.00	671.80	679.10	679.50	0	0	0	0	686.05	0	686.11	14.24
24560.00	4000.00	671.80	679.10	679.50	0	0	0	0	687.02	0	687.17	15.22
24340.00	4000.00	678.20	686.10	684.70	0	0	0	0	690.68	0	691.58	12.48
24340.00	4000.00	678.20	686.10	684.70	0	0	0	0	641.75	0	642.74	13.52
24930.00	4000.00	683.90	691.80	691.10	0	0	0	0	688.82	0	689.01	14.92
24930.00	4000.00	683.90	691.80	691.10	0	0	0	0	700.00	0	700.14	16.10
24010.00	4000.00	685.00	692.90	692.20	0	0	0	0	699.00	0	699.20	12.00
24010.00	4000.00	685.00	692.90	692.20	0	0	0	0	700.11	0	700.24	15.11
24050.00	4000.00	683.70	691.60	690.90	0	0	0	0	697.20	0	697.34	16.34
24050.00	4000.00	683.70	691.60	690.90	0	0	0	0	701.31	0	701.25	17.44
24130.00	4000.00	683.10	692.00	689.10	0	0	0	0	700.15	0	700.20	17.05
24130.00	4000.00	683.10	692.00	689.10	0	0	0	0	701.24	0	701.52	18.74
30220.00	7800.00	685.50	695.20	694.50	0	0	0	0	700.88	0	700.97	15.34
30220.00	7800.00	685.50	695.20	694.50	0	0	0	0	701.94	0	702.08	16.44
30260.00	7800.00	684.20	693.90	693.20	0	0	0	0	700.95	0	701.02	16.74
30260.00	7800.00	684.20	693.90	693.20	0	0	0	0	702.04	0	702.13	17.94
30340.00	7800.00	684.20	694.20	688.90	0	0	0	0	702.40	0	702.53	18.24
30340.00	7800.00	684.20	694.20	688.90	0	0	0	0	703.54	0	703.64	19.34
30420.00	7800.00	685.50	693.00	692.20	0	0	0	0	702.52	0	702.54	17.02
30420.00	7800.00	685.50	693.00	692.20	0	0	0	0	703.63	0	703.64	18.13
31710.00	7400.00	690.70	698.30	696.60	0	0	0	0	703.75	0	703.74	13.02
31710.00	7400.00	690.70	698.30	696.60	0	0	0	0	704.81	0	704.85	14.11
30300.00	7400.00	692.70	704.40	699.90	0	0	0	0	704.27	0	704.34	11.57
30300.00	7400.00	692.70	704.40	699.90	0	0	0	0	705.30	0	705.44	12.64
30380.00	7400.00	692.70	704.40	699.90	0	0	0	0	704.57	0	705.12	11.87
30380.00	7400.00	692.70	704.40	699.90	0	0	0	0	705.54	0	705.92	12.84
30420.00	7400.00	692.70	704.40	699.90	0	0	0	0	706.80	0	706.69	11.90
30420.00	7400.00	692.70	704.40	699.90	0	0	0	0	706.80	0	705.94	12.90



SECD	U	ELMIN	KLSEL	AREI	ELG	ELWC	ELFSD	ESPB	CSEL	CPWB	EG	DEFTM
34500.00	7400.00	693.70	700.50	701.30	0	0	0	0	705.44	0	705.53	11.74
34500.00	7400.00	693.70	700.50	701.30	0	0	0	0	706.15	0	706.24	12.05
35660.00	4700.00	696.50	702.90	703.00	0	0	0	0	707.60	0	707.71	11.10
35660.00	4700.00	696.50	702.90	703.00	0	0	0	0	708.53	0	708.60	12.03
35940.00	4700.00	697.00	703.40	703.50	0	0	0	0	707.78	0	707.92	10.78
35940.00	4700.00	697.00	703.40	703.50	0	0	0	0	708.60	0	708.68	11.80
3600.00	4700.00	697.00	703.30	703.40	707.20	707.92	707.10	709.00	709.46	709.46	710.50	12.44
* 35980.00	6700.00	697.00	703.30	703.40	707.20	709.50	707.10	710.00	709.46	709.46	710.50	12.44
34060.00	4700.00	697.10	703.20	703.90	0	0	0	0	710.75	0	710.81	13.65
34060.00	4700.00	697.10	703.20	703.90	0	0	0	0	710.75	0	710.81	13.65
37270.00	4700.00	698.30	706.50	706.60	0	0	0	0	712.33	0	712.54	14.03
37270.00	4700.00	698.30	706.50	706.60	0	0	0	0	712.47	0	712.65	14.17
37365.00	4700.00	699.10	707.30	709.40	0	0	0	0	712.50	0	712.64	13.44
37365.00	4700.00	699.10	707.30	709.40	0	0	0	0	712.72	0	713.34	13.58
37395.00	4700.00	699.10	706.00	706.20	710.20	712.85	711.20	716.20	713.64	0	713.72	14.54
37395.00	4700.00	699.10	706.00	706.20	0	715.15	999999.00	718.40	713.88	0	714.01	14.78
37470.00	4700.00	699.30	705.80	705.70	0	0	0	0	713.72	0	713.70	14.42
37470.00	4700.00	699.30	705.80	705.70	0	0	0	0	714.00	0	714.11	14.74
39900.00	6700.00	700.50	710.70	710.40	0	0	0	0	716.61	0	716.71	12.11
39900.00	6700.00	700.50	710.70	710.40	0	0	0	0	717.40	0	717.63	12.90
42635.00	6200.00	707.00	713.00	714.30	0	0	0	0	720.50	0	720.62	13.54
42635.00	6200.00	707.00	713.00	714.30	0	0	0	0	721.55	0	721.71	14.55
42635.00	6200.00	709.50	715.50	716.80	0	0	0	0	720.40	0	722.05	10.90
42635.00	6200.00	709.50	715.50	716.80	0	0	0	0	721.54	0	722.70	12.04
42635.00	6200.00	707.20	715.50	714.80	0	0	0	0	723.02	0	723.04	15.84
42635.00	6200.00	707.20	715.50	714.80	0	0	0	0	723.55	0	723.55	16.35
45250.00	5600.00	710.60	717.10	717.80	0	0	0	0	723.44	0	723.50	12.32
45250.00	5600.00	710.60	717.10	717.80	0	0	0	0	724.01	0	724.11	13.41
47560.00	4000.00	718.50	722.80	723.50	0	0	0	0	728.31	0	728.55	9.51
47560.00	4000.00	716.50	722.80	723.50	0	0	0	0	729.42	0	729.71	10.92
49420.00	4800.00	720.10	725.60	725.40	0	0	0	0	732.34	0	732.45	12.24
49420.00	4800.00	720.10	725.60	725.60	0	0	0	0	733.41	0	733.52	13.31
49500.00	4800.00	720.10	725.60	725.80	0	0	0	0	732.40	0	732.55	12.30
49500.00	4800.00	720.10	725.60	725.80	0	0	0	0	733.51	0	733.63	13.43
49505.00	4800.00	719.40	730.20	730.20	726.40	0	729.70	0	732.42	0	732.64	13.02
49505.00	4800.00	719.40	730.20	730.20	728.40	0	729.70	0	733.42	0	733.41	14.02



SECNO	D	ELMIN	XLBFL	RNE	ELF	EGLMC	ELTAD	ECRPS	CMSFL	CRIMG	EG	DEPRM
49555.00	4800.00	719.40	730.20	730.20	728.40	0	729.70	0	732.52	0	732.92	13.12
49555.00	4800.00	714.40	730.20	730.20	728.40	0	729.70	0	733.55	0	734.20	14.15
49500.00	4800.00	720.90	726.50	725.90	0	0	0	0	733.04	0	733.13	12.14
49500.00	4800.00	720.90	726.50	725.90	0	0	0	0	734.00	0	734.53	13.50
49620.00	4800.00	720.90	726.50	725.90	0	0	0	0	733.15	0	733.22	12.25
49620.00	4800.00	720.90	726.50	725.90	0	0	0	0	734.52	0	734.61	13.62
50585.00	4800.00	723.20	729.00	728.80	0	0	0	0	734.37	0	734.44	13.17
50585.00	4800.00	723.20	729.00	728.80	0	0	0	0	735.59	0	735.60	12.30
51740.00	4300.00	725.50	731.90	732.10	0	0	0	0	735.35	0	735.37	9.82
51740.00	4300.00	725.50	731.90	732.10	0	0	0	0	736.50	0	736.53	11.00
51900.00	4300.00	727.50	734.10	734.00	0	0	0	0	736.67	0	736.63	9.17
51900.00	4300.00	727.50	734.10	734.00	0	0	0	0	737.69	0	737.92	10.10
52270.00	4300.00	727.30	733.90	733.80	0	0	0	0	736.62	736.41	740.57	9.32
52270.00	4300.00	727.30	733.90	733.80	0	0	0	0	737.72	0	740.82	10.42
53310.00	4300.00	727.30	732.90	733.40	737.90	743.35	738.70	740.57	740.54	0	740.57	13.24
53310.00	4300.00	727.30	732.90	733.40	737.90	743.35	738.70	741.71	740.61	0	740.82	13.51
53390.00	4300.00	727.50	733.10	733.60	0	0	0	0	740.54	0	740.50	13.04
53390.00	4300.00	727.50	733.10	733.60	0	0	0	0	740.63	0	740.64	13.31
55785.00	3500.00	734.60	739.80	740.00	0	0	0	0	742.00	0	742.23	7.40
55785.00	3500.00	734.60	739.80	740.00	0	0	0	0	741.62	741.62	742.74	7.22
57625.00	1500.00	740.00	743.00	743.50	0	0	0	0	748.34	0	748.00	8.34
57625.00	1500.00	740.00	743.00	743.50	0	0	0	0	749.90	0	750.02	9.90
58365.00	1500.00	740.30	746.20	746.20	0	0	0	0	750.41	0	750.44	10.41
58365.00	1500.00	740.30	746.20	746.20	0	0	0	0	751.65	0	751.75	11.35
59045.00	1500.00	739.60	745.50	745.50	0	0	0	0	750.35	0	751.90	10.75
59045.00	1500.00	739.60	745.50	745.50	0	0	0	0	751.65	0	752.64	12.05
59085.00	1500.00	739.30	745.50	745.50	749.00	753.30	751.00	752.00	753.07	0	753.24	13.77
59085.00	1500.00	739.30	745.50	745.50	0	753.31	999999.00	753.30	754.30	0	755.10	15.04
59165.00	2950.00	740.30	747.20	745.50	0	0	0	0	753.30	0	753.31	13.00
59165.00	2950.00	740.30	747.20	745.50	0	0	0	0	755.10	0	755.21	14.80
60100.00	2600.00	741.60	747.50	746.50	0	0	0	0	753.50	0	753.51	13.70
60100.00	2600.00	741.60	747.50	746.50	0	0	0	0	755.30	0	755.35	13.50

SUMMARY PRINTOUT

CRAVE CR. 100-49. FLDON

SECNO	ALCH	DLOP	DCM	CBOR	KAXNL	KAXMCH	KAXNR	AREA	VLCR	VCK	VROR	DFPTA
1.00	0	8053.81	601.61	5444.54	AS.00	50.00	AS.00	14175.67	1.40	2.60	1.34	9.54
1.00	0	946.92	779.85	4653.23	AS.00	50.00	AS.00	8657.14	1.73	3.20	1.51	10.50
2.00	100.00	8050.26	593.24	5466.46	AS.00	50.00	AS.00	10452.63	1.45	2.80	1.34	9.60
2.00	100.00	8542.30	765.75	4801.83	AS.00	50.00	AS.00	9126.40	1.68	3.10	1.47	10.60
125.00	100.00	8927.04	585.70	5467.20	AS.00	50.00	AS.00	10718.30	1.41	2.72	1.31	9.70
125.00	100.00	9520.11	751.97	4797.92	AS.00	50.00	AS.00	9393.50	1.63	3.00	1.52	10.70
3.00	400.00	7193.33	1791.95	1514.72	AS.00	65.00	AS.00	2112.35	4.77	8.24	3.90	9.24
3.00	400.00	8045.10	2149.00	255.32	AS.00	65.00	AS.00	1788.05	5.57	9.40	4.23	10.17
4.00	400.00	7204.20	1411.11	1704.60	AS.00	65.00	AS.00	3122.44	3.33	5.30	2.60	11.10
4.00	400.00	7671.52	1640.00	946.30	AS.00	65.00	AS.00	2734.94	3.62	5.50	3.20	12.20
5.00	400.00	7297.65	1350.24	1851.91	AS.00	65.00	AS.00	3328.59	3.00	4.84	2.50	11.60
5.00	400.00	7826.63	1541.80	1109.04	AS.00	65.00	AS.00	2999.77	3.40	5.02	3.00	12.60
2085.00	400.00	7297.64	1323.73	1876.41	AS.00	65.00	AS.00	3503.21	2.99	4.67	2.41	11.84
2085.00	400.00	7699.67	1529.02	1141.28	AS.00	65.00	AS.00	3045.12	3.34	4.93	2.84	12.80
3610.00	1525.00	5440.24	1443.72	3560.02	AS.00	65.00	AS.00	4849.51	1.84	3.92	2.24	13.11
3610.00	1525.00	6027.32	1704.73	2947.95	AS.00	65.00	AS.00	4040.04	2.13	4.13	2.42	14.41
4725.00	1115.00	3422.70	1671.64	4095.64	AS.00	65.00	AS.00	5941.50	1.80	2.70	1.61	13.54
4725.00	1115.00	3119.17	1975.14	4905.69	AS.00	65.00	AS.00	5052.70	1.84	2.60	1.62	14.54
4805.00	40.00	3377.17	1727.02	4895.81	AS.00	65.00	AS.00	5598.22	1.54	2.90	1.71	13.24
4805.00	40.00	3044.47	2052.10	4901.35	AS.00	65.00	AS.00	4715.91	1.84	3.14	1.84	14.20
4805.00	40.00	3501.56	1540.49	4917.95	AS.00	65.00	AS.00	4644.80	1.34	2.40	1.45	14.21
4805.00	40.00	3249.24	1606.94	4903.77	AS.00	65.00	AS.00	5733.35	1.62	2.55	1.60	15.21
4925.00	40.00	4744.26	1955.54	1276.16	AS.00	65.00	AS.00	4052.56	2.25	4.05	2.29	14.24
4925.00	40.00	7336.92	2232.20	430.80	AS.00	65.00	AS.00	3556.35	2.57	4.84	2.34	15.24
7675.00	2750.00	3307.75	2025.72	4646.53	AS.00	65.00	AS.00	4377.20	1.91	4.14	2.14	12.67
7675.00	2750.00	4034.91	2358.86	4576.22	AS.00	65.00	AS.00	3775.84	2.34	4.43	2.42	13.84
9980.00	2245.00	3540.97	3137.89	3215.13	AS.00	65.00	AS.00	2718.55	3.10	6.70	2.90	12.87
9980.00	2245.00	4279.32	3455.34	2945.32	AS.00	65.00	AS.00	2351.24	3.40	7.43	3.30	13.85
11625.00	1655.00	5609.15	2740.64	850.21	AS.00	65.00	AS.00	3145.14	2.43	4.93	2.65	13.60
11625.00	1655.00	4293.71	2906.20	0	AS.00	65.00	AS.00	2793.01	2.84	4.27	4	14.80
13940.00	2315.00	409.50	2546.99	4131.50	AS.00	65.00	AS.00	3514.20	1.55	4.92	2.28	12.92
13940.00	2315.00	0	2742.52	6437.44	AS.00	65.00	AS.00	2947.30	0	4.42	2.65	14.04
16150.00	2210.00	2911.50	3196.67	1091.63	AS.00	65.00	AS.00	3417.54	2.34	3.63	2.12	13.80
16150.00	2210.00	4966.32	3107.03	1126.64	AS.00	65.00	AS.00	3751.62	2.17	3.40	1.93	14.43
14230.00	60.00	0	4200.00	0	AS.00	65.00	AS.00	622.03	0	4.79	0	11.61
14230.00	60.00	0	4200.00	0	AS.00	65.00	AS.00	622.01	0	4.79	0	11.61

SECNO	ALCH	CLOR	DCH	GROR	KAXML	KAXGPA	KAXHR	ARE1	VLOR	VGM	VPRR	DEPRM
16270.00	40.00	0	9200.00	0	90.00	45.00	90.00	746.55	0	12.00	0	13.13
14270.00	40.00	0	9200.00	0	90.00	45.00	90.00	746.55	0	12.00	0	13.13
16350.00	40.00	4119.67	2638.03	2442.30	90.00	45.00	90.00	5316.70	1.77	3.53	2.05	19.51
16350.00	40.00	4119.67	2638.03	2442.31	90.00	45.00	90.00	4316.61	1.07	3.54	2.05	19.51
14575.00	2225.00	1755.02	1561.42	5283.54	90.00	65.00	90.00	3525.27	1.92	3.94	2.35	12.74
14575.00	2225.00	1471.60	2004.02	5574.14	90.00	65.00	90.00	2856.41	2.61	4.93	2.71	13.03
20020.00	1445.00	2782.42	2165.74	3241.62	90.00	45.00	90.00	2877.64	2.63	5.77	2.25	14.82
20020.00	1445.00	2288.51	2518.62	3302.67	90.00	45.00	90.00	2397.39	2.57	6.03	2.24	12.93
21940.00	1920.00	1402.92	2405.10	3901.90	85.00	65.00	85.00	2415.30	2.54	5.75	3.00	11.42
21940.00	1920.00	1305.95	2804.41	4049.67	85.00	65.00	85.00	2041.00	3.04	6.14	3.45	12.32
24560.00	2620.00	4619.60	1785.60	1504.71	85.00	65.00	85.00	3510.57	2.04	4.09	1.92	14.20
24560.00	2620.00	4910.68	2036.12	1053.00	85.00	65.00	85.00	2849.35	2.83	4.31	2.24	15.22
24300.00	1780.00	4055.75	3759.04	145.10	90.00	65.00	90.00	1333.98	4.44	10.12	3.66	13.44
24300.00	1780.00	3577.15	4122.65	0	90.00	65.00	90.00	1142.75	5.27	10.04	3.40	13.55
24930.00	2500.00	2840.38	3135.40	2024.13	90.00	65.00	90.00	3372.34	2.04	3.97	1.70	14.90
24930.00	2500.00	2613.76	3500.06	1746.14	90.00	65.00	90.00	2616.08	2.33	4.12	2.44	16.10
24010.00	40.00	2760.28	3452.92	1746.81	90.00	65.00	90.00	2709.54	2.38	4.79	1.95	14.00
24010.00	40.00	3497.33	4027.47	1475.20	90.00	65.00	90.00	2244.55	2.77	5.44	2.45	15.11
24050.00	40.00	2920.68	2786.59	2202.43	90.00	65.00	90.00	4243.84	1.77	3.14	1.42	14.34
24050.00	40.00	2731.25	3147.51	2121.23	90.00	65.00	90.00	3607.47	1.64	3.27	1.72	17.44
24130.00	40.00	1735.67	1316.92	4944.21	90.00	65.00	90.00	4874.74	1.32	2.67	1.37	17.05
24130.00	40.00	1359.13	1452.57	5148.30	90.00	65.00	90.00	4333.65	1.53	2.95	1.44	18.14
30220.00	1020.00	1817.39	3522.92	2459.49	90.00	65.00	90.00	3643.52	1.44	3.22	1.63	15.34
30220.00	1020.00	1501.05	4052.97	2245.94	90.00	65.00	90.00	3227.99	1.04	3.45	1.45	16.44
30260.00	40.00	2026.49	3147.03	2586.44	90.00	65.00	90.00	4723.84	1.20	2.65	1.37	16.74
30260.00	40.00	1737.02	3586.25	2436.73	90.00	65.00	90.00	4151.94	1.41	2.74	1.54	17.64
30380.00	120.00	2346.90	1843.05	3549.44	90.00	65.00	90.00	5735.10	1.11	2.38	1.24	18.22
30380.00	120.00	2198.01	2075.94	3526.03	90.00	65.00	90.00	5143.99	1.24	2.45	1.39	19.34
30420.00	40.00	670.04	1132.04	5991.84	90.00	65.00	90.00	6344.02	0.94	2.10	1.17	17.02
30420.00	40.00	136.93	1251.63	6411.24	90.00	65.00	90.00	5857.02	1.21	2.15	1.21	19.13
31730.00	3310.00	2444.10	649.92	4245.94	80.00	65.00	80.00	5495.81	1.32	2.34	1.32	13.05
31730.00	3310.00	2150.97	764.34	4444.65	80.00	65.00	80.00	4613.46	1.62	2.34	1.56	14.11
30300.00	570.00	72.74	3330.01	3997.23	80.00	65.00	80.00	2895.75	0.64	2.60	2.45	11.57
30300.00	570.00	0	4675.52	2524.44	80.00	65.00	80.00	2332.15	0	3.74	2.45	12.60
30340.00	40.00	0	7400.00	0	80.00	65.00	80.00	1536.22	0	4.82	0	12.84
30340.00	40.00	0	7400.00	0	80.00	65.00	80.00	1240.80	0	5.94	0	11.87
30420.00	40.00	0	7400.00	0	80.00	65.00	80.00	1421.80	0	5.20	0	11.90
30420.00	40.00	0	7400.00	0	80.00	65.00	80.00	1721.80	0	4.30	0	12.90

SECNO	KLCH	QICR	QCM	QCR	QCR	K*YUCH	K*YUHR	ABE1	VLEN	VCM	VBOR	DEPT
23	30500.00	40.00	2514.52	1166.84	3718.64	40.00	40.00	1891.45	1.62	3.34	1.87	11.74
	30500.00	40.00	2301.07	1002.01	3694.15	40.00	40.00	3022.47	2.10	3.60	2.33	12.04
24	3860.00	1360.00	4126.64	1240.41	1200.93	40.00	40.00	2751.74	2.20	4.30	1.90	11.11
	3860.00	1360.00	4534.35	1513.47	652.10	40.00	40.00	2230.94	2.10	4.60	2.65	12.03
25	3590.00	40.00	4091.28	1362.96	1245.76	40.00	40.00	2543.04	2.45	4.72	2.13	10.74
	3590.00	40.00	4141.21	1130.23	1345.56	40.00	40.00	3235.72	1.97	3.54	1.75	11.60
26	3590.00	40.00	3020.94	3462.44	216.51	40.00	40.00	916.17	5.63	9.92	6.90	12.44
	3590.00	40.00	3020.94	3462.44	216.51	40.00	40.00	916.17	5.63	9.92	6.90	12.44
27	3400.00	40.00	5126.41	1224.16	349.43	40.00	40.00	3643.34	1.72	3.10	1.23	13.05
	3400.00	40.00	5126.41	1224.16	349.43	40.00	40.00	3643.34	1.72	3.10	1.23	13.05
28	3720.00	1210.00	2099.72	2504.10	97.14	40.00	40.00	2147.83	2.53	5.30	1.14	14.02
	3720.00	1210.00	1738.05	2543.95	0	40.00	40.00	1513.35	3.64	6.30	1.14	14.02
29	3735.00	75.00	3910.54	2729.64	59.82	40.00	40.00	1851.47	2.87	6.18	1.24	13.44
	3735.00	75.00	3442.03	3237.97	0	40.00	40.00	1317.34	4.04	7.14	0	13.64
30	37395.00	50.00	3841.83	1847.69	940.40	40.00	40.00	3470.34	1.69	3.35	1.54	14.50
	37395.00	50.00	4045.89	2256.07	356.08	40.00	40.00	2644.25	2.14	3.97	2.14	14.74
31	37470.00	75.00	4000.27	1446.64	1213.07	40.00	40.00	3644.74	1.64	3.30	1.57	14.43
	37470.00	75.00	4233.94	1778.84	647.12	40.00	40.00	2811.35	2.10	3.97	2.14	14.74
32	39900.00	2430.00	3205.14	1344.34	2149.44	40.00	40.00	3249.37	1.62	4.19	2.11	12.11
	39900.00	2430.00	3540.73	1543.04	1536.21	40.00	40.00	2699.37	2.10	4.55	2.64	12.94
33	42435.00	2535.00	3045.56	2445.27	206.17	40.00	40.00	2305.07	2.14	3.39	1.64	13.54
	42435.00	2535.00	3672.84	3527.15	0	40.00	40.00	2075.35	2.44	3.54	0	14.55
34	42505.00	70.00	0	4200.00	0	40.00	40.00	610.04	0	10.14	0	10.94
	42505.00	70.00	0	4200.00	0	40.00	40.00	729.44	0	8.50	0	12.04
35	42545.00	60.00	0	4200.00	0	40.00	40.00	643.20	0	9.64	0	11.24
	42545.00	60.00	0	4200.00	0	40.00	40.00	762.71	0	6.13	0	12.44
36	42635.00	70.00	1713.21	540.33	1940.44	40.00	40.00	997.44	1.64	1.97	1.91	15.44
	42635.00	70.00	1641.04	637.09	1791.85	40.00	40.00	4445.94	1.64	1.97	1.91	16.35
37	427500.00	2250.00	1432.20	1441.44	1904.24	40.00	40.00	1505.34	2.63	5.42	2.74	9.64
	427500.00	2250.00	1214.11	1733.45	1652.44	40.00	40.00	1243.34	3.13	5.13	3.13	10.92
38	42820.00	1920.00	1242.17	593.61	2942.23	40.00	40.00	2372.12	1.92	3.32	2.04	12.24
	42820.00	1920.00	992.94	670.52	3116.54	40.00	40.00	1840.64	2.64	3.15	3.54	13.34
39	44500.00	40.00	1333.15	540.67	2876.19	40.00	40.00	3470.22	1.64	3.24	1.97	12.34
	44500.00	40.00	1104.87	662.37	3012.76	40.00	40.00	1947.45	2.64	3.14	2.14	13.43
40	44505.00	5.00	540.24	47.53	342.23	20.00	20.00	926.44	3.55	5.10	5.54	13.02
	44505.00	5.00	0	1071.23	3776.77	20.00	20.00	723.12	0	5.68	0.54	14.02

SECHO	KLCH	OLDR	CCM	DROR	K*XLN	K*XLCH	K*XLNR	AREA	VLGR	VGH	VBGR	DFRSM
40535.00	10.00	540.91	809.66	3409.23	20.00	20.00	20.00	946.25	3.44	4.97	5.34	13.12
40535.00	10.00	31.04	1007.21	3761.71	20.00	20.00	754.70	3.74	5.50	6.04	14.15	
40540.00	5.00	605.01	601.40	3353.50	20.00	20.00	2372.10	1.21	3.12	2.12	12.14	
40540.00	5.00	603.47	675.43	3441.00	20.00	20.00	2048.63	1.12	3.11	2.13	13.50	
40620.00	40.00	647.66	504.40	3337.70	20.00	20.00	2533.44	1.14	3.04	2.02	12.25	
40620.00	40.00	675.74	648.11	3456.11	20.00	20.00	2090.67	1.15	3.05	2.13	13.62	
50585.00	965.00	1047.03	609.87	3053.10	20.00	20.00	2309.43	1.30	3.47	2.24	11.17	
50585.00	965.00	835.11	802.47	3142.41	20.00	20.00	2012.91	1.32	3.55	2.13	12.30	
51720.00	1155.00	147.86	394.96	3757.14	20.00	20.00	4222.22	.50	1.71	1.02	9.85	
51720.00	1155.00	0	480.73	3819.27	20.00	20.00	3694.59	0	1.61	1.02	11.00	
51900.00	1450.00	1502.42	1317.22	1440.36	45.00	45.00	1839.60	1.60	4.92	2.24	9.17	
51900.00	1450.00	1806.72	1544.84	846.30	45.00	45.00	1334.40	2.54	5.33	2.74	10.10	
53270.00	40.00	0	4300.00	0	40.00	40.00	269.31	0	15.97	0	9.32	
53270.00	40.00	0	4300.00	0	40.00	40.00	305.93	0	14.04	0	10.44	
53310.00	40.00	2038.31	494.32	1745.37	40.00	40.00	4705.75	.60	1.54	.94	13.24	
53310.00	40.00	2049.51	440.43	1750.06	40.00	40.00	4945.64	.74	1.47	.91	13.51	
53390.00	40.00	2015.44	511.60	1772.72	40.00	40.00	4513.09	.83	1.63	1.00	13.04	
53390.00	40.00	2047.39	493.05	1759.55	40.00	40.00	4745.25	.80	1.53	.95	13.33	
55725.00	2395.00	1690.74	626.50	1142.72	40.00	40.00	1159.20	2.71	5.97	2.75	7.43	
55725.00	2395.00	1646.73	1150.51	702.74	40.00	40.00	553.84	5.13	11.34	4.94	7.22	
57625.00	1840.00	371.17	544.04	2544.75	40.00	40.00	1744.91	1.42	3.70	1.90	9.34	
57625.00	1840.00	0	552.07	2947.93	40.00	40.00	1557.60	1.10	3.12	2.14	9.90	
54065.00	1340.00	1649.50	974.20	836.12	40.00	40.00	1977.94	1.39	3.10	1.30	10.11	
54065.00	1340.00	1767.62	1170.63	561.55	40.00	40.00	1571.54	1.03	3.21	1.02	11.34	
50005.00	40.00	0	3500.00	0	40.00	40.00	349.74	0	10.30	0	10.75	
50005.00	40.00	0	3500.00	0	40.00	40.00	303.04	0	5.04	0	12.02	
50005.00	40.00	454.04	1449.75	1506.17	40.00	40.00	1140.67	1.47	3.91	3.14	13.77	
50005.00	40.00	0	1500.00	0	40.00	40.00	512.44	0	6.84	0	15.04	
50155.00	40.00	1190.02	315.52	1444.44	40.00	40.00	3465.30	.60	1.37	.43	13.04	
50155.00	40.00	1148.24	343.21	1454.51	40.00	40.00	3295.64	.60	1.34	.41	14.90	
60100.00	935.00	505.02	355.20	1649.76	45.00	45.00	3140.33	.74	1.41	.75	11.70	
60100.00	935.00	356.24	398.82	1844.92	45.00	45.00	2975.30	.82	1.32	.82	13.50	

CRANE CR 100-42, FLOOD

SECNO	G	SSTA	ENDST	TOTWTD	DEATH	01K	ATFCL	ATFNR	ELENC	ELENC	PERNC	*REIK
1.00	15000.00	100.46	2742.00	2657.58	9.50	4646.64	0	0	0	0	0	626.37
1.00	15000.00	572.37	2400.76	1824.38	10.59	4602.69	522.37	2400.76	100000.00	100000.00	0	626.36
2.00	15000.00	103.91	2762.34	2658.45	9.60	4850.08	0	0	0	0	0	0
2.00	15000.00	515.32	2413.45	1698.13	10.60	4845.50	515.32	2413.45	100000.00	100000.00	0	626.40
3.00	15000.00	103.37	2762.67	2659.20	9.70	5048.57	0	0	0	0	0	0
3.00	15000.00	507.65	2420.63	1912.99	10.70	5045.52	507.65	2420.64	100000.00	100000.00	0	626.50
3.00	15000.00	104.96	610.34	505.40	9.28	1034.54	0	0	0	0	0	0
3.00	15000.00	147.80	493.98	306.00	10.17	1002.60	147.80	493.98	100000.00	100000.00	0	627.04
4.00	15000.00	170.24	523.00	354.01	11.19	1851.71	0	0	0	0	0	0
4.00	15000.00	47.75	524.27	354.01	12.24	1875.64	170.24	524.27	100000.00	100000.00	0	629.94
5.00	15000.00	43.63	650.94	547.31	11.64	2041.12	0	0	0	0	0	0
5.00	15000.00	166.74	529.65	382.31	12.68	2097.05	166.74	529.65	100000.00	100000.00	0	631.37
2045.00	10500.00	41.05	654.60	573.04	11.86	2195.54	0	0	0	0	0	0
2045.00	10500.00	145.24	531.90	346.60	12.89	2205.00	145.24	531.90	100000.00	100000.00	0	632.54
3610.00	10500.00	136.73	1132.20	995.44	13.11	2422.24	0	0	0	0	0	0
3610.00	10500.00	458.72	1001.27	502.55	14.11	2446.14	458.72	1001.27	100000.00	100000.00	0	635.31
4725.00	10000.00	201.30	1295.19	1023.49	15.54	3630.74	0	0	0	0	0	0
4725.00	10000.00	473.10	1111.22	676.12	14.58	3637.22	473.10	1111.22	100000.00	100000.00	0	636.42
4605.00	10000.00	214.29	1280.34	1074.05	13.24	3310.35	0	0	0	0	0	0
4605.00	10000.00	443.91	1103.74	619.61	14.24	3318.55	443.91	1103.74	100000.00	100000.00	0	636.52
4645.00	10000.00	176.61	1308.12	1131.32	14.21	4234.93	0	0	0	0	0	0
4645.00	10000.00	452.25	1123.85	671.60	15.21	4240.90	452.25	1123.85	100000.00	100000.00	0	637.61
4925.00	10000.00	157.42	791.74	634.32	14.24	2719.24	0	0	0	0	0	0
4925.00	10000.00	312.02	729.08	417.06	15.24	2731.27	312.02	729.08	100000.00	100000.00	0	637.84
7675.00	10000.00	76.04	410.32	854.24	12.87	2304.33	0	0	0	0	0	0
7675.00	10000.00	258.57	799.63	501.06	13.84	2346.17	258.57	799.63	100000.00	100000.00	0	642.07
6940.00	9900.00	150.02	706.57	568.54	12.87	1490.03	0	0	0	0	0	0
6940.00	9900.00	240.67	612.34	371.68	13.65	1485.33	240.67	612.34	100000.00	100000.00	0	647.67
11625.00	9200.00	42.57	597.24	514.67	13.65	2104.01	0	0	0	0	0	0
11625.00	9200.00	230.60	570.00	319.40	14.60	2043.25	230.60	570.00	100000.00	100000.00	0	652.72
11950.00	9200.00	251.34	956.74	745.43	12.92	2014.00	0	0	0	0	0	0
11950.00	9200.00	375.00	775.37	400.37	14.04	2020.45	375.00	775.37	100000.00	100000.00	0	657.45
14150.00	9200.00	105.63	666.04	566.00	13.84	2213.42	0	0	0	0	0	0
14150.00	9200.00	102.21	677.33	575.12	14.43	2537.92	0	0	0	0	0	641.60
14210.00	9200.00	455.00	570.00	95.00	11.61	469.41	0	0	0	0	0	0
14210.00	9200.00	455.00	570.00	95.00	11.61	469.75	0	0	0	0	0	641.61









SECNO	D	SRTA	ENDRT	TDPID	DEPM	DLK	STFCL	SIFNR	ELENC	ELFNR	PERNC	MSLK	
00315.00	4800.00	336.94	718.44	341.60	13.12	1258.57	0	0	0	0	0	0	
00335.00	4800.00	487.51	647.58	140.08	14.15	1211.53	0	647.58	100000.00	100000.00	0	732.52	
00500.00	4800.00	148.53	781.94	633.42	12.14	1437.98	0	0	0	0	0	0	
00500.00	4800.00	435.63	663.34	227.73	13.50	1567.80	0	435.63	663.37	100000.00	100000.00	0	733.04
34	4800.00	145.95	784.03	618.04	12.25	1436.78	0	0	0	0	0	0	
40620.00	4800.00	471.58	663.61	232.04	13.62	1401.31	0	471.58	643.63	100000.00	100000.00	0	733.12
35	4800.00	223.44	789.20	545.34	11.17	1285.20	0	0	0	0	0	0	
50585.00	4800.00	436.02	716.82	240.80	12.36	1273.25	0	436.02	716.82	100000.00	100000.00	0	734.37
36	4300.00	287.93	1255.24	947.33	9.85	2041.12	0	0	0	0	0	0	
51740.00	4300.00	460.00	1061.85	601.65	11.00	2120.37	0	440.00	1041.85	100000.00	100000.00	0	735.35
37	4300.00	245.48	1239.03	973.54	9.17	705.04	0	0	0	0	0	0	
51190.00	4300.00	752.56	1049.12	316.54	10.19	711.92	0	752.56	1049.12	100000.00	100000.00	0	736.67
51270.00	4300.00	940.00	992.00	32.00	9.32	213.16	0	0	0	0	0	0	
51270.00	4300.00	240.00	992.00	12.00	10.42	256.01	0	0	0	0	0	0	
51310.00	4300.00	18.74	1151.62	1076.34	13.24	2402.34	0	0	0	0	0	0	
51310.00	4300.00	37.88	1152.21	1116.33	13.51	3033.62	0	0	0	0	0	0	
38	4300.00	39.38	1149.46	1049.60	13.08	2451.59	0	0	0	0	0	0	
51390.00	4300.00	18.51	1152.36	1089.87	13.33	244.68	0	0	0	0	0	0	
39	1500.00	387.14	553.85	546.69	7.44	376.13	0	0	0	0	0	0	
55725.00	1500.00	567.25	618.11	250.84	7.22	193.24	0	567.25	618.11	100000.00	100000.00	0	742.00
40	1500.00	219.26	672.90	474.79	8.34	228.75	0	0	0	0	0	0	
51225.00	1500.00	319.00	573.33	230.33	9.92	927.68	0	319.00	523.33	100000.00	100000.00	0	743.24
41	1500.00	241.20	845.78	604.49	10.11	962.95	0	0	0	0	0	0	
58965.00	1500.00	426.14	645.53	259.39	11.35	1027.11	0	426.14	645.53	100000.00	100000.00	0	740.41
50045.00	1500.00	582.00	623.00	41.00	10.75	296.77	0	0	0	0	0	0	
50045.00	1500.00	582.00	623.00	41.00	12.05	307.68	0	0	0	0	0	0	
50085.00	1500.00	155.92	895.74	642.68	13.77	439.40	0	0	0	0	0	0	
50085.00	1500.00	582.00	623.00	41.00	15.08	436.83	0	582.00	623.00	100000.00	100000.00	0	749.07
42	2950.00	123.89	785.30	641.40	13.00	2121.84	0	0	0	0	0	0	
50165.00	2950.00	263.04	610.60	347.60	14.88	2544.07	0	263.04	610.60	100000.00	100000.00	0	753.32
43	2600.00	75.84	747.94	688.08	11.70	1485.74	0	0	0	0	0	0	
60100.00	2600.00	210.51	617.59	407.07	13.50	1098.30	0	210.51	617.59	100000.00	100000.00	0	753.50

3

PAINE CR, 100-W-3 FLOOD

SECTNO	3	CASEL	RFASP	DIFASX
1.00	15000.00	626.30	0	1.20
1.00	15000.00	627.30	1.00	
2.00	15000.00	626.00	0	1.10
2.00	15000.00	627.00	1.00	
#1	125.00	15000.00	626.50	1.00
	125.00	15000.00	627.50	1.00
	3.00	10500.00	627.04	0
	3.00	10500.00	627.98	0
	2.00	10500.00	629.92	0
	2.00	10500.00	629.92	1.05
	5.00	10500.00	631.37	0
	5.00	10500.00	632.00	1.03
#2	2045.00	10500.00	632.50	0
	2045.00	10500.00	633.50	1.02
#3	1010.00	10500.00	635.31	0
	1010.00	10500.00	636.31	1.00
#4	4725.00	10000.00	637.00	0
	4725.00	10000.00	637.00	1.00
	6605.00	10000.00	639.50	0
	6605.00	10000.00	639.50	1.00
	6625.00	10000.00	637.61	0
	6625.00	10000.00	638.61	1.00
#5	4225.00	10000.00	637.61	0
	4225.00	10000.00	638.61	1.00
#6	7675.00	10000.00	642.07	0
	7675.00	10000.00	643.07	1.00
#7	6900.00	9900.00	647.07	0
	6900.00	9900.00	648.07	1.00
#8	11225.00	6200.00	652.77	0
	11225.00	6200.00	653.77	1.00
#9	13900.00	9200.00	657.43	0
	13900.00	9200.00	658.43	1.00
#10	16150.00	6200.00	661.00	0
	16150.00	6200.00	662.00	1.00
	16230.00	9200.00	667.01	0
	16230.00	9200.00	667.01	1.00

SECNO	Q	CYSEL	QFMSR	RFMSX
14270.00	9200.00	649.13	0	1:52
14270.00	9200.00	664.11	0	1:52
#11	16350.00	9200.00	667.71	3:54
			667.71	3:54
#12	14575.00	8600.00	649.94	2:25
			679.23	2:52
			679.0	
#13	20020.00	8200.00	673.62	3:66
			673.71	4:50
#14	21940.00	8270.00	678.6	6:24
			680.42	6:65
			681.38	
#15	24560.00	8000.00	686.00	5:54
			687.02	5:60
#16	24300.00	8030.00	690.68	4:64
			691.7	6:72
#17	24930.00	8000.00	696.68	8:21
			698.9	8:24
			699.00	7:12
			700.11	7:11
			700.04	1:05
			701.14	1:05
#18	20130.00	8000.00	700.15	1:00
			701.2	1:10
#19	30220.00	7800.00	708.65	1:71
			709.9	1:70
			709.94	1:04
			702.04	1:10
			702.40	1:51
			703.58	1:53
#20	30420.00	7600.00	702.52	1:01
			703.5	1:02
			703.75	1:23
			704.61	1:10
			705.00	1:52
			705.30	1:44
			706.00	1:30
			705.54	1:24
			706.00	1:12
			705.60	1:13





SUMMARY PRINTOUT

CRANE CR. 100-425 FLOOD

SECNO	CW8FL	HL	QUORS	TOTPTD	QIOR	GM	GROR
4725.00	616.48	1.13	.00	1093.89	3422.70	1671.64	665.66
4725.00	617.48	1.12	.01	678.12	3119.17	1975.14	495.60
4805.00	676.52	.07	.01	1072.05	3377.17	1727.02	4695.81
4805.00	677.52	.07	.01	619.81	3680.47	2050.13	4901.36
4805.00	617.81	1.25	.00	1111.32	3501.56	1540.40	4917.95
4805.00	618.81	.03	.02	671.60	1299.24	1806.94	4903.77
4925.00	617.86	.07	.04	612.32	6769.26	1959.58	1276.16
4925.00	616.86	.07	.07	417.04	7336.92	2232.20	470.89
14150.00	661.64	4.18	.00	558.00	4911.50	3196.87	1091.63
14150.00	662.23	3.59	.01	575.12	4966.32	3107.03	1126.68
* 14210.00	662.61	.34	0	95.00	0	920.00	0
14210.00	662.61	.30	0	95.00	0	920.00	0
14270.00	662.13	.34	0	95.00	0	920.00	0
14270.00	662.13	.34	0	95.00	0	920.00	0
14350.00	667.71	.15	1.29	500.97	4119.67	2638.05	2482.30
14350.00	667.71	.15	1.29	500.95	4119.61	2638.04	2482.31
24930.00	694.66	7.35	.02	691.19	2800.34	3135.40	2024.13
24930.00	700.00	7.30	.00	317.37	2613.74	3400.04	1788.14
26010.00	699.60	.13	.05	546.00	2760.24	3452.92	1786.61
26010.00	700.11	.13	.07	216.52	2497.33	4027.47	1475.20
26650.00	700.04	.93	0	670.00	2920.54	2746.50	2222.23
26650.00	701.16	.04	.10	371.74	2731.25	3147.51	2121.23
29130.00	740.15	.05	.02	674.06	1738.67	1316.92	4944.21
29130.00	741.24	.05	.02	425.35	1359.13	1452.57	5143.30
30230.00	740.88	.74	.00	617.64	1617.39	3522.92	2459.59
30230.00	741.96	.71	.05	376.45	1501.05	4052.97	2205.94
30230.00	740.94	.03	.02	659.17	2026.49	3147.03	2586.44
30230.00	742.04	.02	.03	416.17	1777.02	4454.22	2436.73
30340.00	742.49	1.51	.00	712.77	2386.90	1443.65	3549.44
30340.00	743.59	.04	.02	457.72	2198.01	2075.94	3526.03
30430.00	742.52	.01	.01	747.74	670.04	1175.02	5801.86
30430.00	743.63	.01	.01	571.70	136.93	1251.83	4411.22
34300.00	744.27	.54	.02	944.02	72.74	3310.01	3987.23
34300.00	745.30	.54	.02	446.51	0	4475.52	2524.44
34350.00	744.57	.30	.35	300.00	0	7400.00	0
34350.00	745.56	.30	.14	300.00	0	7400.00	0

SECNO	CWSEL	HL	OLQSS	TOPAID	OLQR	ACR	GROR
34020.00	700.69	0	0	300.00	0	700.00	0
34030.00	705.69	.04	0	300.00	0	700.00	0
34500.00	705.46	.22	.21	952.69	2514.52	1146.80	3710.60
34500.00	706.15	.17	.11	490.80	2391.03	1402.81	3608.15
35660.00	707.60	2.14	.06	645.40	4128.64	1240.91	1290.93
35660.00	708.53	2.32	.05	344.62	4534.35	1515.47	652.19
35940.00	707.78	.19	.02	656.29	4091.28	1362.94	1205.76
35940.00	708.80	.13	.05	717.48	4164.21	1130.23	1345.56
35940.00	709.46	.20	0	823.67	3020.90	3442.49	216.61
35940.00	709.46	.14	0	823.67	3020.90	3442.49	216.61
34060.00	710.75	.22	.10	722.90	5126.34	1224.29	349.37
37270.00	712.33	1.60	.05	570.67	4099.72	2500.10	96.18
37270.00	712.47	1.90	.10	215.04	3736.05	2945.95	0
37345.00	712.54	.23	.07	500.30	4910.54	2729.60	59.62
37345.00	712.78	.34	.10	102.90	3442.03	3237.97	0
37355.00	713.64	.64	0	645.14	3881.83	1647.69	950.40
37355.00	713.88	.12	.21	352.17	4085.80	2256.07	356.04
37470.00	713.72	.07	.00	659.97	4000.27	1486.64	1213.07
37470.00	714.00	.09	.01	346.11	4233.99	1778.89	647.12
42430.00	720.50	3.80	.02	377.79	3008.54	2945.27	206.17
42430.00	721.55	4.04	.02	246.78	2672.85	3527.14	0
42505.00	720.44	.24	.12	105.00	0	4200.00	0
42505.00	721.59	.22	.72	105.00	0	4200.00	0
42565.00	720.76	.14	0	105.00	0	4200.00	0
42565.00	721.90	.71	.04	105.00	0	4200.00	0
42635.00	723.08	.02	.84	1247.16	3713.21	546.31	1940.46
42635.00	723.55	.02	.61	912.65	3861.04	617.09	1701.85
42620.00	732.38	3.68	.01	526.03	1282.17	593.61	2944.23
42620.00	733.41	3.80	.02	243.20	992.90	490.52	3116.58
42500.00	735.49	.10	.04	532.30	1333.15	584.67	2875.19
42500.00	733.53	.10	.01	254.37	1104.87	682.37	3012.74
42505.00	732.42	.01	.30	371.53	540.20	837.51	3422.23
42505.00	733.42	.01	.48	157.35	0	1021.21	3778.77
42535.00	732.52	.05	.02	341.40	580.91	409.64	2409.43
42535.00	733.55	.05	.03	140.08	71.04	107.21	3741.71
42540.00	733.04	.01	.20	643.42	805.01	601.40	3553.59
42540.00	734.44	.01	.31	227.71	643.47	675.41	1441.00

SECNO	C-SFL	HL	GLSS	TOP:03	CLOR	DCU	QTR
5190.00	716.67	1.42	.00	973.55	1502.42	1317.22	1440.36
5190.00	717.60	1.30	.00	316.56	1808.72	1580.88	846.30
51270.00	736.62	.70	3.00	32.00	0	4300.00	0
51270.00	737.75	.61	2.27	32.00	0	4300.00	0
53310.00	740.56	0	0	1078.36	2036.31	492.32	1743.37
53310.00	740.61	0	0	1115.33	2049.51	480.43	1740.06
51390.00	740.58	.02	.00	1049.60	2015.48	511.80	1772.72
51390.00	740.83	.02	.00	1087.87	2007.39	493.05	1759.55
5295.00	750.41	2.05	.00	600.49	1689.59	974.29	836.12
5295.00	751.65	1.72	.00	259.30	1747.82	1170.63	541.55
59045.00	750.35	.25	1.26	41.00	0	3500.00	0
59045.00	751.65	.22	.91	41.00	0	3500.00	0
59045.00	753.07	.34	.80	602.68	454.08	1449.75	1506.17
59045.00	754.38	.35	.30	41.00	0	3500.00	0
59165.00	753.30	.05	.02	641.40	1190.02	315.52	1404.46
59165.00	755.19	.08	.07	347.60	1108.28	303.21	1458.51
POSSIBLE ERRR	SECNO	16230.00 PROFILE		1 CRITICAL DEPTM ASSUMED			
POSSIBLE ERRR	SECNO	16230.00 PROFILE		2 CRITICAL DEPTM ASSUMED			
POSSIBLE ERRR	SECNO	15960.00 PROFILE		1 CRITICAL DEPTM ASSUMED			
POSSIBLE ERRR	SECNO	15960.00 PROFILE		2 CRITICAL DEPTM ASSUMED			
POSSIBLE ERRR	SECNO	15785.00 PROFILE		2 CRITICAL DEPTM ASSUMED			
POSSIBLE ERRR	SECNO	15785.00 PROFILE		2 20 TRIALS REQUIRED TO BALANCE *REL			



X1	100	26	340	900	100	100	100			
GR	633.8	60	625.0	100	624.5	115	622.0	175	622.5	340
GR	621.9	405	621.6	705	622.5	900	622.0	128	622.7	1488
GR	624.5	1555	624.5	1600	623.0	1625	624.5	1668	624.5	1705
GR	622.5	1730	622.6	1925	622.0	2075	622.7	2160	623.5	2305
GR	621.6	2455	622.3	2525	622.6	2640	621.6	2735	622.0	2750
GR	633.8	2800								
X1	2355	18	328	370	2255	2255	2255			
GR	633.5	30	624.5	60	623.7	138	625.0	145	623.8	245
GR	624.3	305	626.4	315	626.4	328	620.7	332	621.3	355
GR	620.9	367	626.1	370	626.0	386	624.4	390	623.7	425
GR	624.0	1020	627.6	1060	633.5	1080				
X1	5605	18	583	623	3250	3250	3250			
GR	636.0	75	633.5	110	632.6	175	629.4	230	628.1	330
GR	628.7	425	629.0	480	628.7	550	632.4	563	629.7	573
GR	630.0	583	622.6	588	622.7	618	629.3	623	631.0	640
GR	629.5	650	628.5	700	636.0	900				
X1	8030	21	275	297	2425	2425	2425			
GR	642.5	50	639.2	175	637.5	270	634.5	275	625.5	280

TOWN CREEK

COMBINED M-3 SWCC-CORP

DECKS TO BE

RUN FOR

PROFILE

Bl's need  
- 2.19.4  
see final listing  
as submitted  
to TREC

620.9

622.6

GR 625.7	294	631.5	297	635.5	310	632.8	340	634.4	370
GR 634.0	390	630.0	395	629.6	414	635.0	420	633.7	445
GR 633.2	476	634.2	526	633.6	530	633.8	605	635.8	675
GR 642.6	700								
X1 9530	23	540	600	1500	1500	1500			
GR 651.6	0	643.7	100	642.5	160	640.5	200	640.5	350
GR 638.2	445	638.4	515	637.5	524	640.4	527	636.8	536
GR 638.7	540	630.4	548	629.3	567	629.7	580	638.6	600
GR 637.7	608	637.6	660	639.4	732	640.3	900	645.5	1105
GR 645.2	1125	647.2	1220	651.6	1292				
X1 11100	10	97	140	1570	1570	1570			
GR 650.5	0	644.0	20	635.2	42	634.6	58	634.6	75
GR 641.0	85	644.0	97	634.0	111	646.5	140	650.5	148
X1 11184	14	800	840	84	84	84			
GR 656.3	0	649.5	120	645.0	240	645.3	440	649.6	610
GR 650.6	680	651.2	799	638.5	800	635.5	805	636.2	827
GR 638.6	840	652.1	841	653.5	1010	656.3	1100		
SB 0.9	1.5	2.5		40	0.1	455			
X1 11216	0	0	0	32	32	32			

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GR 664.5	515								
X1 17100	11	314	360	1950	1950	1950			
GR 674.5	0	664.5	117	662.5	158	661.3	240	659.2	314
GR 652.4	326	662.5	360	663.4	369	662.8	415	662.0	425
GR 674.5	452								
X1 17189	10	356	397	89	89	89			
GR 676.7	0	668.5	140	665.8	290	665.4	355	657.5	356
GR 653.6	370	653.5	397	665.4	398	666.3	495	676.7	880
SR 0.9	1.5	2.5	0	41	0.1	380			
X1 17212	0	0	0	23	23	23			
X2		1	663.4	665.4					
BT 7	0	676.7		140	668.5		290	665.8	
BT 356	665.4	663.4	397	665.4	663.4	495	666.3		880
BT 676.7									
X1 17300	13	300	337	88	88	88			
GR 676.0	0	671.6	26	666.7	115	664.5	190	664.5	205
GR 662.2	225	661.5	290	659.6	300	655.4	307	655.5	333
GR 660.6	337	661.2	345	659.5	350	659.5	387	661.0	393
GR 665.6	515	668.4	518	672.0	625	676.0	690		

X2		1	648.6	651.2					
BT	10	0	656.3		120	649.5		240	645.0
BT	440	645.3		610	649.6		680	650.6	800
BT	651.2	647.2	840	652.1	647.2	1010	653.5		1100 656.3
BT									
X1	11300	17	54	86	84	84	84		
GR	625.5	0	651.0	10	645.8	22	644.4	47	641.0 48
GR	640.6	54	637.6	57	636.6	66	637.5	78	643.4 86
GR	644.6	103	644.0	116	645.0	150	642.5	160	646.0 170
GR	650.5	175	652.5	220					
X1	13400	20	730	764	2100	2100	2100		
GR	666.0	0	660.3	85	658.0	190	654.8	360	652.5 470
GR	649.5	560	648.2	680	649.5	710	647.5	730	642.5 734
GR	641.5	744	642.0	755	648.4	764	649.4	785	648.1 815
GR	646.0	820	646.0	830	643.2	834	653.0	870	666.0 890
X1	15150	16	362	390	1750	1750	1750		
GR	664.5	0	656.5	35	651.5	75	651.5	325	653.0 340
GR	652.1	350	650.4	355	650.4	362	646.0	365	646.3 386
GR	652.0	390	653.3	400	647.0	415	653.2	432	655.0 465

GR 664.5	515									
X1 17100	11	314	360	1950	1950	1950				
GR 674.5	0	664.5	117	662.5	158	661.3	240	659.2	314	
GR 652.4	326	662.5	360	663.4	369	662.8	415	662.0	425	
GR 674.5	452									
X1 17189	10	356	397	89	89	89				
GR 676.7	0	668.5	140	665.8	290	665.4	355	657.5	356	
GR 653.6	370	653.5	397	665.4	398	666.3	495	676.7	880	
SB 0.9	1.5	2.5	0	41	0.1	380				
X1 17212	0	0	0	23	23	23				
X2		1	663.4	665.4						
BT 7	0	676.7		140	668.5		290	665.8		
BT 356	665.4	663.4	397	665.4	663.4	495	666.3		880	
BT 676.7										
X1 17300	19	300	337	88	88	88				
GR 676.0	0	671.6	26	666.7	115	664.5	190	664.5	205	
GR 662.2	225	661.5	290	659.6	300	655.4	307	655.5	333	
GR 660.6	337	661.2	345	659.5	350	659.5	387	661.0	393	
GR 665.6	515	668.4	518	672.0	625	676.0	690			

C

C 1

C 160.00SALISBURY,N.C.F.P.I.REPORT.TOWN CR.EXIST.COND.ONLY. NOT FOR FLOODWAY

T1 TOWN CREEK AUG 14 1974

T2 SALISBURY N.C.

T3 100 YR FLOOD 6000 CFS

J1 -1 2 0 0 0 0 -1 673.65

J2 1 -1 -5 -100

J3 1 34 3 4 27 28 26 21 22

NC .07 .07 .05 0.1 0.3

QT 2 6000 6000

ET 10.4

X1160.00/19225 25 487 526 1925 1925 1925 -2.194 667.5 300

GR 683.5 0 672.0 80 668.0 140 667.9 200 667.5 300

GR 666.6 400 667.6 487 666.0 492 661.6 495 661.6 510

GR 666.8 515 668.8 526 668.1 580 668.5 585 667.0 590

GR 665.3 593 664.5 600 665.3 605 667.7 610 667.6 700

GR 667.5 710 673.6 800 673.7 850 676.0 925 680.0 970

X1160.25/19250 0 0 0 25 25 25 -2.194

*this no. goes in column # 8 field (67-72)*

X1160.50	1925	0	0	0	25	25	25	<del>2194</del>		
X1161.00	19325	0	0	0	50	50	50	<del>2174</del>		
X1162.00	19425	0	0	0	100	100	100	<del>2194</del>		
X1170.00	20225	2	557	600	800	800	800	-2.194		
GR	692.5	0	686.0	95	680.0	140	678.0	170	676.0	240
GR	674.0	330	670.3	400	669.4	530	670.8	557	668.5	562
GR	662.0	564	663.1	573	663.1	583	669.3	585	700.4	600
GR	669.6	612	665.0	635	669.0	650	670.0	700	675.4	810
GR	680.0	880	690.0	955						
X1180.00	21225	23	442	493	1000	1000	1000	-2.194		
GR	693.0	0	688.0	95	684.0	155	680.0	200	674.4	360
GR	674.6	400	675.4	442	669.6	460	669.0	463	669.1	472
GR	671.8	475	677.0	493	673.5	515	674.5	523	675.5	600
GR	675.5	625	673.5	628	673.0	640	674.7	645	676.0	653
GR	675.6	700	676.5	750	690.0	920				
X1190.00	22225	20	485	522	1000	1000	1000	-2.194		
GR	690.0	0	688.0	65	686.0	80	684.0	115	682.0	145
GR	680.0	160	678.0	210	676.0	482	675.0	485	674.0	486
GR	672.0	490	671.5	495	671.5	510	672.0	515	674.0	520

GR 675.0	522	676.0	528	678.0	585	680.0	610	690.0	790
X1195.00	<sup>22725</sup> 22	660	692	500	500	500		- 2.194	
GR 690.0	0	688.0	15	686.0	90	684.0	130	682.0	250
GR 682.0	365	683.8	500	683.6	558	681.6	575	681.3	605
GR 678.6	615	681.3	635	678.5	660	675.2	665	674.8	675
GR 675.1	685	680.5	692	679.5	705	680.3	728	678.8	738
GR 678.5	765	690.5	785						
X1201.75	<sup>23400</sup> 18	247	273	900	500	675			
GR 704	30	700	80	698	85	685.7	155	684.5	200
GR 682.7	247	678.5	249	677	260	678.5	270	683.3	273
GR 683	290	687	310	687.8	400	688.8	435	694	540
GR 698	588	700	600	704	680				
X1204.75	<sup>23700</sup> 12	350	389	300	300	300			
X3	10						689	689	
GR 700	20	694	120	692	185	685.5	260	682.5	350
GR 679	350	678.5	380	683	389	687	405	690	550
GR 692	680	700	830						
SB	0	1.3	2.5	0	38	0	304	0	678.7 678.7
X1205.95	<sup>23730</sup> 0	0	0	30	30	30			

~~680~~ - 2.644

Brungles Larry Road

- 2.194

~~2.194~~



X2		1	686.8	689						
X3	10						689	689		
BT	8	20	700	0	200	691	0	300	689.6	0
BT	350	689.8	686.8	389	689.8	686.8	500	689.0	0	680
BT	692	0	830	700	0					
X1205.45	2377	15	322	375	40	40	40		-2.194	
GR	700	35	694	65	690	140	688	200	685.5	322
GR	678	330	678.5	355	685.2	375	685.3	400	688	470
GR	690	480	692	670	690	575	690	600	700	700
QT	2	5575	5575							
X1214.00	24625	17	967	1014	855	930	855	930	855	-2.194
GR	701.0	0	698.0	200	696.0	260	694.0	370	692.0	560
GR	692.0	700	690.3	800	685.8	900	685.5	918	684.0	967
GR	679.3	972	678.5	989	684.0	995	683.7	1005	688.0	1014
GR	687.0	1065	700.0	1110						
X1221.80	25300	25405	14	568	622	600	780	600	780	600
GR	700.0	0	696.0	110	694.0	260	690.0	440	688.0	470
GR	688.0	568	682.0	579	681.5	590	681.5	603	682.0	608
GR	688.0	622	690.0	700	692.0	715	700.0	750		

X1226.30	25100 25955	21	448	480	200 450	200 450	200 450	-3.594 -1.4		
GR	700	10	696	195	694.5	200	693.5	240	689	300
GR	689.7	385	691	400	692	432	687.5	438	687.6	448
GR	684.7	455	684.3	475	687.5	480	689.4	488	691.3	523
GR	690	550	687.5	560	688.5	600	692	650	698	680
GR	700	715								
X1232.15	26440 26000	10	422	464	585	585	585	-2.194		
X3	10							695	695	
GR	706	0	704	80	698	200	689	422	685.5	422
GR	685.5	464	689	464	698	620	698	700	705	720
SB	0	1.3	2.5	0	38	0	319	0	685.5	685.5
X1232.45	26470 26115	0	0	0	30	30	30	-2.194		
X2		1	693.9	695						
X3	10							695	695	
BT	11	0	706	0	155	700	0	300	695	0
BT	400	695	0	422	695.2	693.9	464	695.2	693.9	500
BT	695	0	600	696	0	620	698	0	700	698
BT	0	720	705	0						
X1232.85	26510 26155	15	382	420	40	40	40	-2.194		

GR	705	0	704	60	700	150	695	200	689.3	382
GR	684.7	392	684.5	400	685.1	415	689.8	420	691.2	500
GR	691.3	600	692	630	698	665	698	685	705	720
NC	.015	.015	.035	0.1	0.3					
X1234.50	<del>26475</del> 26460	17	447	508	<del>165</del> 305	<del>165</del> 305	<del>165</del> 305		-2.194	
GR	707.0	0	704.0	100	700.0	180	699.8	200	698.3	232
GR	691.5	300	690.0	447	685.3	452	684.7	482	688.5	485
GR	695.3	508	696.6	560	697.0	600	695.2	695	696.3	715
GR	695.5	760	703.5	825						
NH	5	.07	290	.015	547	.035	605	.015	761	.07
NH	945									
X1234.40	<del>26850</del>	22	547	761	<del>390</del> 390	<del>390</del> 390	<del>390</del> 390		-2.194	
X3	10								695.3	
GR	714.0	0	707.0	200	697.8	235	695.1	300	695.0	400
GR	694.7	500	694.5	547	694.0	553	685.5	565	685.2	571
GR	685.5	578	689.0	585	689.3	590	695.0	605	695.3	761
GR	691.0	764	691.6	800	692.0	862	702.4	882	703.3	895
GR	704.0	910	716.0	945						
NH	5	.07	313	.015	576	.035	626	.015	765	.07

NH 990

26960

X1239.50 17 576 626 110 110 110

X3 10

-2.194

696.4

GR 714 0 710 90 709.8 200 699.5 240 698.3 313

GR 698.8 576 690.8 576 686.5 585 686.8 605 697.8 626

GR 696.4 700 697.1 765 692.4 782 692 800 692.8 845

GR 702.7 865 704 990

NH 5 .07 313 .015 576 .035 626 .015 765 .07

NH 990

26970

X1239.60 0 0 0 10 10 10

~~-2.194~~

X3 10

698.3 696.4

BT 2 576 698.8 695 626 697.8 695.

NC .015 .015 .03

NV 2 .03 695.6 .015 725

27730

X1247.20 15 600 650 760 760 760

-2.194

X3 10

694.8 694.8

BT 2 600 698.8 695.6 650 697.7 695.6

GR 710 0 702 70 700.4 300 699.1 400 699.6 500

GR 698.8 600 688 608 687.6 642 697.7 650 697.1 800

US 3/2

GR 694.8 985 696 1260 698 1280 698 1330 710 1350

NC .015 .015 .035 .2 .5

~~X1247.30~~ 15 600 650 10 10 10 -2.194

X3 10 698.8 694.8

GR 710 0 702 70 700.4 300 699.1 400 699.6 500

GR 698.8 600 688 608 687.6 642 697.7 650 697.1 800

GR 694.8 985 696 1260 698 1280 698 1330 710 1350

~~X1248.20~~ 10 718 754 117/90 117/90 117/90 -2.194

X3 10 696.5 696

GR 710 0 700 215 697.8 400 696.5 718 687 718

GR 688 754 696.3 754 696 900 698 1420 704 1710

SB 1.25 1.3 2.5 0 36 4.5 235 0 687.2 687.2

~~X1249.05~~ 0 0 0 85 85 85 ~~2.194~~

X2 1 694.9 696

X3 10 696.5 696

BT 8 0 710 0 215 700 0 400 697.8 0

BT 718 696.5 694.9 754 696.3 694.9 900 696 0 1420

BT 698 0 1710 704 0

NC .06 .06 .05 0.1 0.3

<del>GT</del>	<del>2</del>	<del>5200</del>	<del>5200</del>							
	<i>27965</i>	<i>27972</i>								
X1249.55	13	677	716	50	50	50				<i>-2.174</i>
GR 710	0	700	200	696.2	677	688.7	685	687.5	700	
GR 688.5	712	696	716	699.3	745	697.2	800	698	1080	
GR 700	1170	700	1240	710	1315					
<i>29510</i>	<i>29500</i>									<i>-2.194</i>
X1265.00	26	497	521	<i>1508</i> 1545	<i>1508</i> 1545	<i>1508</i> 1545				
GR 717.0	0	716.0	25	710.0	65	704.0	135	701.4	200	
GR 699.5	210	700.5	215	698.9	235	699.5	250	700.0	300	
GR 699.5	350	696.3	362	697.1	400	697.1	465	699.5	482	
GR 696.5	497	691.2	503	691.4	510	690.8	518	691.5	521	
GR 698.9	535	696.5	545	696.2	600	696.5	730	700.0	780	
GR 715.0	920									
NC .06	.06	.05	.2	.5						
<i>30725</i>	<i>30585</i>									<i>-2.194</i>
X1277.15	23	442	487	<i>1385</i> 1215	<i>1385</i> 1215	<i>1385</i> 1215				
GR 712.8	0	709.8	75	707.8	100	703.8	190	702.0	300	
GR 702.4	400	702.8	435	698.1	442	697.6	462	693.7	465	
GR 693.9	472	693.7	480	702.5	487	703.0	500	702.9	535	
GR 698.2	545	702.4	555	700.8	570	700.9	600	703.9	700	
GR 705.7	835	709.8	875	714.8	960					



GR 701.8	745	702.0	808	703.0	815	700.3	825	701.5	900
GR 702.0	1060	708.0	1200	715.0	1790				
<del>X1292.00</del>	<del>20</del>	481	506	1015	1015	1015	1015		
								-2.194	
GR 716.0	0	714.0	40	710.0	90	704.0	230	703.0	300
GR 702.5	435	701.0	465	701.5	481	695.9	483	696.0	503
GR 700.4	506	700.4	518	705.1	522	705.1	532	706.8	545
GR 702.5	558	702.5	600	702.1	675	702.0	980	720.0	1135
NC			.2	.5					
<del>GT 2</del>	<del>4550</del>	<del>4530</del>							
<del>X1298.30</del>	<del>13</del>	582	612	630	630	630	630		
								-3.484	
GR 715	0	712	70	708	285	708	400	708.5	500
GR 707.4	565	704.5	582	699	590	698.5	605	706.2	612
GR 704.8	700	708	725	720	755				
<del>X1303.30</del>	<del>15</del>	761	802	500	500	500			
X3	10								
							709.5	709.5	
GR 718	0	716	60	714	185	712	215	708	500
GR 707	740	704.5	761	700	761	700	785	702.3	788
GR 704	800	706	802	707	870	710.8	900	720	1030
SB	0	1.3	2.5	0	25	0	240	.62	700



X1303-70 <sup>33520</sup> 0 0 0 40 40 40 ~~2.194~~

Vance Ave.

X2 1 708 ✓ 709.5

X3 10 709.5 709.5

BT 10 0 718 0 60 716 0 185 714 0

BT 212 712 0 335 710 0 700 709.3 0 761

BT 709.5 708 802 709.5 708 900 710.8 0 1030 720

BT 0

NC .1 .3

X1304-10 <sup>33560</sup> 17 679 712 40 40 40 -2.194

GR 720 30 716 170 712 260 710 280 708 365

GR 709 600 708.7 615 706 655 705.3 679 700 688

GR 700 695 699.6 700 705.1 712 704.5 765 707.5 800

GR 711 810 720 875

NC .2 .5

X1307-05 <sup>33915</sup> 17 915 980 <sup>415</sup> 375 <sup>415</sup> 375 -2.194

GR 720.0 0 718.0 40 716.0 100 714.0 240 712.0 305

GR 710.0 625 708.0 670 706.0 915 702.0 925 701.0 940

GR 701.0 960 702.0 970 704.0 980 706.0 1005 708.0 1045

GR 710.0 1110 720.0 1230

34475  
X1312.85  
34295

-2.194

X3	10							719.1	719.1	
GR	724	0	722	150	710	400	708	695	707.6	718
GR	704	745	704.5	760	702.5	805	807.7	825	709	852
GR	724	1000	728	1090						
SB	1.25	1.3	2.5	0	70	12	1667	2.4	702.5	702.5

34525  
X1313.35  
34345

~~2.194~~

RR

X2		1	719.6	719.1						
X3	10							719.1	719.1	
BT	9	0	724	0	150	721.6	0	420	720	0
BT	500	719.1	0	600	719.3	0	695	720.4	718	852
BT	722.1	719.6	1000	724	0	1090	728	0		
NC			.1	.3						

34675  
X1314.85  
34495

-2.193  
-2.094

GR	724.0	0	722.0	30	720.0	90	718.0	195	714.0	355
GR	712.0	500	707.6	600	712.3	755	708.7	774	707.0	785
GR	707.7	788	700.9	792	701.0	800	702.0	812	706.9	815
GR	714.8	832	713.5	853	716.5	900	717.0	1000	718.0	1030
GR	720.0	1055	724.0	1080						

35700 35410 X1324.00	28.0	896.0	928.0	1025 915.0	1025 915.0	1025 915.0	-2.194		
GR 729.0	0	728.0	10	726.0	40	724.0	65	722.0	100
GR 720.0	165	716.0	240	714.0	300	712.0	405	708.5	700
GR 709.2	855	710.9	875	708.8	879	707.8	896	702.8	905
GR 703.1	912	703.1	926	708.0	928	711.3	935	709.0	945
GR 708.0	1000	708.3	1058	705.8	1063	706.2	1078	707.6	1080
GR 711.1	1100	720.0	1120	730.0	1155				
NC 36180 36000 X1328.00	17	973	1012	.2 .5 480 590	480 590	480 590	-2.194		
GR 728.0	0	726.0	30	724.0	115	722.0	165	720.0	265
GR 714.0	487	712.0	530	709.6	900	710.3	952	712.7	965
GR 710.7	973	703.0	985	702.5	995	703.0	1000	711.2	1012
GR 714.0	1200	730.0	1365						
X1334.90 36500 36680 X3 10	12	795	840	500	500	500	-2.194		
GR 728	0	724	115	720	330	712.3	600	711	795
GR 708	795	707.6	805	704.3	811	704.3	828	708	840
GR 711	840	730	1320						
SB 0	1.3	2.5	0	25	0	350	1	704.3	704.3

00.6 ✓

00.7 ✓

36720  
36540  
X1335.30

~~2.194~~

Klunack Road

X1335.30	0	0	0	40	40	40				
X2		1	714.5	✓	716					
X3	10						716	716		
BT	10	0	728	0	115	724	0	330	720	0
BT	440	716.5	0	700	716	0	795	716.4	714.5	840
BT	716.4	714.5	900	716.3	0	1000	717.5	0	1320	730
BT	0									

NC 36765  
36585  
X1335.75

-2.194

X1335.75	26	854	900	45	45	45				
GR	730.5	0	728.0	50	726.0	130	724.0	220	716.0	510
GR	714.0	570	712.0	620	710.3	800	711.6	854	703.8	865
GR	703.0	875	703.7	885	708.5	890	711.0	900	710.8	915
GR	710.7	965	706.0	1000	709.5	1038	710.3	1060	705.4	1068
GR	709.5	1078	711.5	1090	711.5	1100	713.7	1200	720.0	1250
GR	730.0	1400								

700.8 ✓

~~QT 37950 3600 3800~~  
37950  
3800  
X1350.00

-2.194

X1350.00	20	826	863	1425	1425	1425				
GR	732.0	0	730.0	45	728.0	70	726.0	85	724.0	165
GR	722.0	275	720.0	340	716.0	470	714.0	500	712.4	800

M?

704.5 ✓

GR 715.4	812	713.7	820	713.7	826	707.0	835	706.7	845
GR 707.0	855	712.8	863	715.0	875	712.5	885	730.0	1040
NC			.2	.5					
X1350.10	20	418	446	810	810	810	810		
GR 731.0	0	728.0	100	724.0	180	722.0	205	720.0	280
GR 717.7	300	715.8	400	716.5	418	716.3	420	710.0	428
GR 710.0	435	710.3	443	713.7	446	716.2	452	715.1	500
GR 715.1	600	716.0	715	720.0	815	724.0	870	730.0	985
X1362.10	12	545	585	400	400	400	400		
X3	10	12					720.3	720.3	
GR 733	0	722.5	400	716.3	545	714.2	545	713	560
GR 710.8	565	710.9	585	716	585	720.3	800	722	1010
GR 724	1125	730	1275						
SB	0	1.3	2.5	0	28	0	273	.8	
X1362.50	0	0	0	40	40	40	40		
X2		1	718.3	720.3					
X3	10						720.3	720.3	
BT	8	0	733	0	400	722.5	0	545	721.8
BT	585	721.6	718.3	800	720.3	0	1010	722	0

-2.194

-2.194

~~2.194~~

907.7 ✓

N?

Julian Rot.

39080  
38820

39220 39480

39520  
39260

BT 724 0 1275 730 0

NC <sup>29500</sup> .1 .3

<sup>39300</sup>  
~~X1362-90~~ 26 398 422 40 40 40

GR 734.0 0 728.0 90 724.0 125 722.0 160 720.0 200

GR 719.1 250 717.7 255 718.0 260 717.6 300 717.1 398

GR 711.2 399 710.7 405 710.7 415 716.4 422 715.8 495

GR 714.0 500 715.3 505 716.0 519 713.6 535 716.4 575

GR 716.7 600 718.0 650 722.0 720 722.0 820 724.0 935

GR 732.0 1130

NC .2 .5

~~QT 2 3340 3340~~

<sup>4110 41200</sup>  
~~X1381-00~~ 19 347 365 <sup>1640</sup> 1810 <sup>1640</sup> 1810 <sup>1640</sup> 1810

GR 734.0 0 730.0 110 728.0 155 726.8 200 721.8 300

GR 719.5 332 719.9 347 715.0 350 714.6 355 714.7 361

GR 719.2 365 718.8 400 719.2 465 718.5 475 719.3 500

GR 720.0 600 723.2 700 724.0 755 734.0 815

<sup>42210 42350</sup>  
~~X1392-00~~ 18 309 329 <sup>1150</sup> 1100 <sup>1150</sup> 1100 <sup>1150</sup> 1100

GR 736.0 0 730.0 120 724.0 200 723.5 222 722.8 292

GR 721.0 300 720.6 309 717.8 318 717.1 322 717.6 325

-2.194

707.5

-2.194

712.4

-2.194

GR 722.6 329 722.0 400 722.4 500 724.2 600 726.9 650

GR 730.0 800 734.0 860 736.0 870

~~42640~~ 42700  
X1396.30 12 5550 585 430 430 430

-2.194

X3 10 730.6 730.6

GR 738 0 732 240 731.8 300 724 540 722.5 555

GR 719 562 719 575 723 585 724 585 728 800

GR 732 875 740 1100

SB 0 1.3 2.5 0 25 0 312 1 719 719

~~42680~~ 42720  
X1396.70 0 0 0 40 40 40

~~2.194~~

X2 1 728.5 / 730.6

Rowan Mill Road

X3 10 730.6 730.6

BT 7 0 738 0 240 732 0 540 730.6 728.5

BT 585 730.6 728.5 600 731 0 875 732 0 1100

BT 740 0

NC 42965 .1 .3

42725  
X1397.15 15 552 571 45 45 45

-2.494

~~.5~~

GR 740 0 736 140 728 350 724 552 520.3 553

GR 720 565 724.2 571 724 600 724.5 700 730.2 775

GR 732 955 734 1020 736 1050 738 1140 740 1150

43550  
43810-  
X1408.00

	15	500	520	1085	1085	1085			
GR 740.0	0	730.0	210	726.0	275	725.6	330	726.0	375
GR 726.1	480	725.5	500	721.5	502	721.5	518	725.5	520
GR 726.0	600	725.6	640	726.0	660	728.0	700	740.0	800

685 685 685  
-2.194

44285  
X1412.75  
44025

	0	0	0	475	475	475			
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~~2.194~~

EJ

T1 TOWN CREEK

T2 SALISBURY N.C.

T3 100 YR FLOOD FLOODWAY WITH ONE FOOT INCREASE

J1	-0	3	0	0	0	0	-1	674.65
J2	15		-1					

ER

1575 1575 1575  
-2.194

X1 45600	13	442	460	1315	1315	1315			
GR 735.5	0	728.4	132	727.2	185	726.1	275	726.6	348
GR 726.1	367	726.7	442	722.3	445	723.0	448	723.3	457
GR 726.8	460	730.6	505	735.5	550				



X1 47150	15	433	455	1550	1550	1550			
GR 748.1	0	737.2	110	732.6	175	730.5	248	729.2	305
GR 729.0	430	729.5	433	726.5	440	726.0	445	726.5	454
GR 729.5	455	729.2	660	730.4	682	740.0	736	748.1	755
X1 48650	20	430	450	1500	1500	1500			
GR 746.0	0	742.0	103	735.2	136	733.0	175	732.2	360
GR 733.5	425	732.2	430	729.3	432	727.7	440	728.0	447
GR 733.5	450	733.0	460	733.5	530	732.5	560	732.5	660
GR 733.2	700	735.8	775	737.8	825	737.8	840	746.0	945
X1 50100	16	570	600	1450	1450	1450			
GR 749.5	0	746.7	130	743.8	160	738.5	285	736.5	340
GR 736.3	500	736.8	555	735.2	570	732.0	574	730.5	585
GR 736.5	590	736.5	600	735.8	635	737.5	695	740.6	735
GR 749.5	900								
X1 50185	14	856	895	85	85	85			
GR 755.8	0	749.7	205	748.5	315	746.2	410	743.6	615
GR 743.6	700	745.2	855	735.2	856	730.2	870	730.2	890
GR 734.5	895	745.2	896	747.0	995	756.0	1255		
SB 0.9	1.5	2.5		39	0.1	381			

X1 50215	0	0	0	30	30	30			
X2		1	741.2	745.2					
BT 7	0	755.8		205	749.7		315	748.5	
BT 410	746.2		615	743.6		700	743.6		856
BT 745.2	741.1	895	745.2	741.2	995	747.0		1255	756.0
BT									
X1 50300	17	415	465	85	85	85			
GR 746.0	0	743.2	65	739.3	105	737.5	175	736.5	300
GR 737.1	360	737.0	380	731.4	384	731.0	396	736.4	405
GR 736.4	415	727.2	435	737.0	465	737.4	485	739.6	620
GR 735.0	635	746.0	650						
X1 51025	15	520	540	1525	1525	1525			
GR 751.0	0	743.6	138	737.5	325	738.2	415	737.5	425
GR 737.7	520	732.0	522	732.8	538	736.5	540	737.0	546
GR 737.6	605	737.5	710	739.8	725	742.5	775	751.0	875
X1 53700	15	332	360	1875	1875	1875			
GR 755.0	0	750.5	125	748.1	150	746.3	135	745.0	250
GR 743.2	320	743.3	332	739.5	342	739.0	350	739.6	356
GR 742.1	360	746.4	380	751.4	435	751.5	465	755.0	515

X1 53785	11	458	533	85	85	85			
GR 763.0	0	759.7	75	751.6	355	751.8	458	746.5	458
GR 740.6	482	740.3	518	746.3	533	751.8	533	753.3	636
GR 763.0	930								
SB 1.25	1.5	2.5		75	1.0	599			
X1 53815	0	0	0	30	30	30			
X2		1	750.8	751.8					
BT 7	0	763.0		75	759.7	355	751.6		458
BT 751.8	750.0	533	751.8	750.0	636	753.3		930	763.0
BT									
X1 53900	14	270	295	85	85	85			
GR 755.0	0	751.5	55	747.7	100	747.7	160	744.0	215
GR 743.8	270	738.5	275	739.5	288	743.4	295	744.2	325
GR 744.0	360	742.5	380	743.7	430	751.6	480	755.0	520
X1 55175	17	351	380	1275	1275	1275			
GR 753.5	25	750.5	93	748.5	168	745.0	218	745.5	270
GR 744.6	300	745.5	330	744.0	340	745.5	351	740.6	371
GR 745.6	380	745.6	433	744.6	455	746.7	555	751.5	605
GR 750.7	620	753.5	700						

X1 57175	23	628	755	2000	2000	2000			
GR 763.1	0	761.5	135	757.1	155	750.5	175	754.5	238
GR 757.1	248	754.3	317	754.5	365	751.6	502	751.4	534
GR 746.6	628	746.3	734	748.5	755	746.4	792	746.4	814
GR 753.5	840	747.5	842	747.0	845	747.5	855	751.5	857
GR 751.5	892	754.6	932	763.5	975				
X1 60700	13	665	693	3525	3525	3525			
GR 766.0	0	762.2	255	761.7	412	759.0	525	759.5	650
GR 759.0	665	756.8	680	755.5	683	755.5	690	758.8	693
GR 760.0	730	759.8	832	766.0	845				
X1 60790	12	1290	1315	90	90	90			
GR 779.0	0	775.5	90	771.2	260	766.0	645	763.6	1000
GR 765.0	1289	756.2	1290	756.2	1310	758.6	1315	765.5	1316
GR 766.9	1415	779.0	1560						
SB 0.9	1.5	2.5		25	0.1	187			
X1 60810	0	0	0	20	20	20			
X2 0.9		1	764.0	765.0					
B1 7	0	779.0		90	775.5		260	771.2	
BT 645	766.0		1000	763.6	1290	765.0	<del>763.6</del>	1315	765.5

BT 764.0

X1 60900

12

534

548

90

90

90

GR 764.5

0

763.0

25

760.5

260

760.5

490

758.6

510

GR 760.0

530

759.5

534

755.7

537

757.0

545

760.0

548

GR 760.0

565

764.5

620

add

3w, wt, x

to complete  
~~with~~

64485

3A

```
//RMAKL2 JOB RTI.A25.P03078,KEZIAH,M=1,T=(,15),PRTY=2,D=RTIMG
// EXEC COPY.PARM=NOLIST
//OUTPUT DD DSN=RTI.A25.P03078.MAK.TOWN.DISP=OLD
//INPUT DD DATA
//*PROCLIB=RTI.MG.PROCLIB
// EXEC HEC2
//SYSIN DD *
```

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

J1	-1	2			.0002					631.6
J2	0		-1							
J3	38	39	40	41	43	42	1	2	26	53
J3	54	25	50	0	201					
NC	0.085	0.085	0.060	0.1	0.3					
QT	5	3150	4700	5500	8800	5500				
ET	5	0	0	0	0	-10.4				
X1	100	26	340	900	100	100	100			
GR	633.8	60	625.0	100	624.5	115	622.0	175	622.5	340
GR	621.9	405	621.6	705	622.5	900	622.0	928	622.7	1488
GR	624.5	1555	624.5	1600	623.0	1625	624.5	1668	624.5	1705
GR	622.5	1730	622.6	1925	622.0	2075	622.7	2160	623.5	2305
GR	621.6	2455	622.3	2525	622.6	2640	621.6	2735	622.0	2750
GR	633.8	2800								
X1	2355	18	328	370	2255	2255	2255			
GR	633.5	30	624.5	60	623.7	138	625.0	145	623.8	245
GR	624.3	305	626.4	315	626.4	328	620.7	332	621.3	355
GR	620.9	367	626.1	370	626.0	386	624.4	390	623.7	425

LISTING AS  
SUBMITTED TO  
TUCC  
TOWN CREEK

64495

GR 624.0	1020	627.6	1060	633.5	1080				
NC 0.085	0.085	0.060	0.1	0.3					
QT 5	3100	4650	5400	8600	5400				
X1 5605	18	583	623	3250	3250	3250			
GR 636.0	75	633.5	110	632.6	175	629.4	230	628.1	330
GR 628.7	425	629.0	480	628.7	550	632.4	563	629.7	573
GR 630.0	583	622.6	588	622.7	618	629.3	623	631.0	640
GR 629.5	650	628.5	700	636.0	900				
NC 0.085	0.085	0.060	0.1	0.3					
QT 5	3050	4600	5350	8450	5350				
X1 8030	21	275	297	2425	2425	2425			
GR 642.5	50	639.2	175	637.5	270	634.5	275	625.5	280
GR 625.7	294	631.5	297	635.5	310	632.8	340	634.4	370
GR 634.0	390	630.0	395	629.6	414	635.0	420	633.7	445
GR 633.2	476	634.2	526	633.6	530	633.8	605	635.8	675
GR 642.6	700								
NC 0.080	0.080	0.060	0.1	0.3					
X1 9530	23	540	600	1500	1500	1500			
GR 651.6	100	643.7	100	642.5	160	640.6	200	640.5	350
GR 638.2	445	638.4	515	637.5	524	640.4	527	636.8	536
GR 638.7	540	630.4	548	629.3	567	629.7	580	638.6	600
GR 637.7	608	637.6	660	639.4	732	640.3	900	645.5	1105
GR 645.2	1125	647.2	1220	651.6	1292				
NC 0.090	0.090	0.060	0.1	0.3					
QT 5	3025	4550	5300	8250	5300				
X1 11100	10	97	140	1570	1570	1570			
GR 650.5	0	644.0	20	635.2	42	634.6	58	634.6	75
GR 641.0	85	644.0	97	630.0	111	646.5	140	650.5	148

X1 11184	14	800	840	84	84	84			
GR 656.3	0	649.5	120	645.0	240	645.3	440	649.6	610
GR 650.6	680	651.2	799	638.5	800	635.5	805	636.2	827
GR 638.6	840	652.1	841	653.5	1010	656.3	1100		
SB 0.9	1.5	2.5		40	0.1	455			
X1 11216	0	0	0	32	32	32			
X2		1	648.6	651.2					
BT 10	0	656.3		120	649.5		240	645.0	
BT 440	645.3		610	649.6		680	650.6		800
BT 651.2	647.2	840	652.1	647.2	1010	653.5		1100	656.3
BT									
NC 0.090	0.090	0.060	0.1	0.3					
X1 11300	17	54	86	84	84	84			
GR 625.5	0	651.0	10	645.8	22	644.4	47	641.0	48
GR 640.6	54	637.6	57	636.6	66	637.5	78	643.4	86
GR 644.6	103	644.0	116	645.0	150	642.5	160	646.0	170
GR 650.5	175	652.5	220						
NC 0.080	0.080	0.060	0.1	0.3					
X1 13400	20	730	764	2100	2100	2100			
GR 666.0	0	660.3	85	658.0	190	654.8	360	652.5	470
GR 649.5	560	648.2	680	649.5	710	647.5	730	642.5	734
GR 641.5	744	642.0	755	648.4	764	649.4	785	648.1	815
GR 646.0	820	646.0	830	643.2	834	653.0	870	666.0	890
NC 0.080	0.080	0.060	0.1	0.3					
X1 15150	16	362	390	1750	1750	1750			
GR 664.5	0	656.5	35	651.5	75	651.5	325	653.0	340
GR 652.1	350	650.4	355	650.4	362	646.0	365	646.3	386
GR 652.0	390	653.3	400	647.0	415	653.2	432	655.0	465

-0.14

1.0

1.23

1.09



GR 664.5	515									
NC 0.085	0.085	0.060	0.1	0.3						
QT 5	3000	4500	5200	8200	5200					
X1 17100	11	314	360	1950	1950	1950				
GR 674.5	0	664.5	117	662.5	158	661.3	240	659.2	314	
GR 652.4	326	662.5	360	663.4	369	662.8	415	662.0	425	
GR 674.5	452									
X1 17189	10	356	397	89	89	89				
GR 676.7	0	668.5	140	665.8	290	665.4	355	657.5	356	
GR 653.6	370	653.5	397	665.4	398	666.3	495	676.7	880	
SB 0.9	1.5	2.5	0	41	0.1	380				
X1 17212	0	0	0	23	23	23				
X2		1	663.4	665.4						
BT 7	0	676.7		140	668.5		290	665.8		
BT 356	665.4	663.4	397	665.4	663.4	495	666.3		880	
BT 676.7										
NC 0.085	0.085	0.060	0.1	0.3						
X1 17300	19	300	337	88	88	88				
GR 676.0	0	671.6	26	666.7	115	664.5	190	664.5	205	
GR 662.2	225	661.5	290	659.6	300	655.4	307	655.5	333	
GR 660.6	337	661.2	345	659.5	350	659.5	387	661.0	393	
GR 665.6	515	668.4	518	672.0	625	676.0	690			
NC .07	.07	.05	0.1	0.3						
X1 19225	25	487	526	1925	1925	1925		-2.194		
GR 683.5	0	672.0	80	668.0	140	667.9	200	667.5	300	
GR 666.6	400	667.6	487	666.0	492	661.6	495	661.6	510	
GR 666.8	515	668.8	526	668.1	580	668.5	585	667.0	590	
GR 665.3	593	664.5	600	665.3	605	667.7	610	667.6	700	

1.51

1.22

copy

GR 667.5	710	673.6	800	673.7	850	676.0	925	680.0	970
X1 19250	0	0	0	25	25	25	1.21		
X2 19275	0	0	0	25	25	25	1.21		
NC 0.070	0.070	0.060	0.1	0.3					
X3 19325	0	0	0	50	50	50	1.21		
X4 19425	0	0	0	100	100	100	1.20		
X5 20225	22	557	600	800	800	800		-2.194	
GR 692.5	0	686.0	95	680.0	140	678.0	170	676.0	240
GR 674.0	330	670.3	400	669.4	530	670.8	557	668.5	562
GR 662.0	564	663.1	573	663.1	583	669.3	585	700.4	600
GR 669.6	612	665.0	635	669.0	650	670.0	700	675.4	810
GR 680.0	880	690.0	955						
NC 0.070	0.070	0.060	0.1	0.3					
QT 5	2950	4350	5000	8000	5000				
X6 21225	23	442	493	1000	1000	1000		-2.194	
GR 693.0	0	688.0	95	684.0	155	680.0	200	674.4	360
GR 674.6	400	675.4	442	669.6	460	669.0	463	669.1	472
GR 671.8	475	677.0	493	673.5	515	674.5	523	675.5	600
GR 675.5	625	673.5	628	673.0	640	674.7	645	676.0	653
GR 675.6	700	676.5	750	690.0	920				
X7 22225	20	485	522	1000	1000	1000		-2.194	
GR 690.0	0	688.0	65	686.0	80	684.0	115	682.0	145
GR 680.0	160	678.0	210	676.0	482	675.0	485	674.0	486
GR 672.0	490	671.5	495	671.5	510	672.0	515	674.0	520
GR 675.0	522	676.0	528	678.0	585	680.0	610	690.0	790
X8 22725	22	660	692	500	500	500		-2.194	
GR 690.0	0	688.0	15	686.0	90	684.0	130	682.0	250
GR 682.0	365	683.8	500	683.6	558	681.6	575	681.3	605

1.04

1.04

TR12  
 26440  
 26470  
 26510  
 26675

GR 678.6	615	681.3	635	678.5	660	675.2	665	674.8	675
GR 675.1	685	680.5	692	679.5	705	680.3	728	678.8	738
GR 678.5	765	690.5	785						
X1 23400	18	247	273	900	500	675		-2.644	
GR 704	30	700	80	698	85	685.7	155	684.5	200
GR 682.7	247	678.5	249	677	260	678.5	270	683.3	273
GR 683	290	687	310	687.8	400	688.8	435	694	540
GR 698	588	700	600	704	680				
X2 23700	12	350	389	300	300	300		-2.194	
X3 10							689	689	
GR 700	20	694	120	692	185	685.5	260	682.5	350
GR 679	350	678.5	380	683	389	687	405	690	550
GR 692	680	700	830						
SB 0	1.3	2.5	0	38	0	304	0	678.7	678.7
X2 23730	0	0	0	30	30	30			
X2		1	686.8	689					
X3 10							689	689	
BT 8	20	697.8 700	0	200	688.8 691	0	300	687.4 689.6	0
BT 350	687.6 689.8	684.6 686.8	389	687.6 689.8	684.6 686.8	500	686.8 689.0	0	680
BT 692	0	830	697.8 700	0					
QT 5	2850	4250	4800	7800	4800				
X2 23770	15	322	375	40	40	40		-2.194	
GR 700	35	694	65	690	140	688	200	685.5	322
GR 678	330	678.5	355	685.2	375	685.3	400	688	470
GR 690	480	692	570	690	575	690	600	700	700
X2 24625	17	967	1014	855	855	855		-2.194	
GR 701.0	0	698.0	200	696.0	260	694.0	370	692.0	560
GR 692.0	700	690.3	800	685.8	900	685.5	918	684.0	967

1.41

1.32

1.32

0
680

1.31

1.21

GR 679.3	972	678.5	989	684.0	995	683.7	1005	688.0	1014
GR 687.0	1065	700.0	1110						
ⓧ 25405	14	568	622	780	780	780		-2.194	
GR 700.0	0	696.0	110	694.0	260	690.0	440	688.0	470
GR 688.0	568	682.0	579	681.5	590	681.5	603	682.0	608
GR 688.0	622	690.0	700	692.0	715	700.0	750		
ⓧ 25855	21	448	480	450	450	450		-3.594	
QT 5	2825	4200	4750	7700	4750				
GR 700	10	696	195	694.5	200	693.5	240	689	300
GR 689.7	385	691"	400	692	432	687.5	438	687.6	448
GR 684.7	455	684.3	475	687.5	480	689.4	488	691.3	523
GR 690	550	687.5	560	688.5	600	692	650	698	680
GR 700	715								
ⓧ 26440	10	422	464	585	585	585		-2.194	
X3 10							695	695	
GR 706	0	704	80	698	200	689	422	685.5	422
GR 685.5	464	689	464	698	620	698	700	705	720
SB 0	1.3	2.5	0	38	0	319	0	685.5	685.5
ⓧ 26470	0	0	0	30	30	30			
X2		1	693.9	695					
X3 10							695	695	
BT 11	0	703.8 706	0	155	700	0	300	692.8 695	0
BT 400	692.8 695	0	422	693.0 695.2	691.7 693.9	464	693.0 695.2	691.7 693.9	500
BT 692.8 695	0	600.8 702.8 705	693.8 696	0	620	695.8 698	0	700	698
RT 0	720		0						
ⓧ 26510	15	382	420	40	40	40		-2.194	
GR 705	0	704	60	700	150	695	200	689.3	382
GR 684.7	392	684.5	400	685.1	415	689.8	420	691.2	500

500  
695.8  
698

GR 679.3	972	678.5	989	684.0	995	683.7	1005	688.0	1014
GR 687.0	1065	700.0	1110						
X1 25405	14	568	622	780	780	780		-2.194	
GR 700.0	0	696.0	110	694.0	260	690.0	440	688.0	470
GR 688.0	568	682.0	579	681.5	590	681.5	603	682.0	608
GR 688.0	622	696.0	700	692.0	715	700.0	750		
X1 25855	21	448	480	450	450	450		-3.594	
QT 5	2825	4200	4750	7700	4750				
GR 700	10	696	195	694.5	200	693.5	240	689	300
GR 689.7	385	691	400	692	432	687.5	438	687.6	448
GR 684.7	455	684.3	475	687.5	480	689.4	488	691.3	523
GR 690	550	687.5	560	688.5	600	692	650	698	680
GR 700	715								
X1 26440	10	422	464	585	585	585		-2.194	
X3 10							695	695	
GR 706	0	704	80	698	200	689	422	685.5	422
GR 685.5	464	689	464	698	620	698	700	705	720
SB 0	1.3	2.5	0	38	0	319	0	685.5	685.5
X1 26470	0	0	0	30	30	30			
X2		1	693.9	695					
X3 10							695	695	
BT 11	0	706	0	155	700	0	300	695	0
BT 400	695	0	422	693.0	691.7	464	693.0	691.7	500
BT 695	0	600	695	695.2	693.9	698	695.2	693.9	698
BT 0	720	705	0	620	698	0	700		
X1 26510	15	382	420	40	40	40		-2.194	
GR 705	0	704	60	700	150	695	200	689.3	382
GR 684.7	392	684.5	400	685.1	415	689.8	420	691.2	500

BT 11	0	706	0	155	700	0	300	695	0
BT 400	695	0	422	693.0	691.7	464	693.0	691.7	500
BT 695	0	600	695	695.2	693.9	698	695.2	693.9	698
BT 0	720	705	0	620	698	0	700		

GR 691.3	600	692	630	698	665	698	685	705	728
NC .015	.015	.035	0.1	0.3					
(X1) 26675	17	447	508	165	165	165		-2.194	
GR 707.0	0	704.0	100	700.0	180	699.8	200	698.3	232
GR 691.5	300	690.0	447	685.3	452	684.7	482	688.5	485
GR 695.3	508	696.6	560	697.0	600	695.2	695	696.3	715
GR 695.5	760	703.5	825						
NH 5	.07	290	.015	547	.035	605	.015	761	.07
NH 945									
(X1) 26850	22	547	761	175	175	175		-2.194	
X3 10								695.3	
GR 714.0	0	707.0	200	697.8	235	695.1	300	695.0	400
GR 694.7	500	694.5	547	694.0	553	685.5	565	685.2	571
GR 685.5	578	689.0	585	689.3	590	695.0	605	695.3	761
GR 691.0	764	691.6	800	692.0	862	702.4	882	703.3	895
GR 704.0	910	716.0	945						
NH 5	.07	313	.015	576	.035	626	.015	765	.07
NH 990									
(X1) 26960	17	576	626	110	110	110		-2.194	
X3 10								696.4	
GR 714	0	710	90	709.8	200	699.5	240	698.3	313
GR 698.8	576	690.8	576	686.5	585	686.8	605	697.8	626
GR 696.4	700	697.1	765	692.4	782	692	800	692.8	845
GR 702.7	865	704	990						
NH 5	.07	313	.015	576	.035	626	.015	765	.07
NH 990									
(X1) 26970	0	0	0	10	10	10			
X3 10							698.3	696.4	

			696.6	692.8		695.4	692.8			
BT	2	576	698.8	695	626	697.8	695			
NC	.015	.015	.03							
NV	2	.03	695.6	.015	725					
X1	27730	15	600	650	760	760	760		-2.194	
X3	10							694.8	694.8	
BT	2	600	698.8	695.6	650	697.7	695.6			
GR	710	0	702	70	700.4	300	699.1	400	699.6	500
GR	698.8	600	688	608	687.6	642	697.7	650	697.1	800
GR	694.8	985	696	1260	698	1280	698	1330	710	1350
NC	.015	.015	.035	.2	.5					
X1	27740	15	600	650	10	10	10		-2.194	
X3	10							698.8	694.8	
GR	710	0	702	70	700.4	300	699.1	400	699.6	500
GR	698.8	600	688	608	687.6	642	697.7	650	697.1	800
GR	694.8	985	696	1260	698	1280	698	1330	710	1350
X1	27830	10	718	754	90	90	90		-2.194	
X3	10							696.5	696	
GR	710	0	700	215	697.8	400	696.5	718	687	718
GR	688	754	696.3	754	696	900	698	1420	704	1710
SB	1.25	1.3	2.5	0	36	4.5	235	0	687.2	687.2
X1	27915	0	0	0	85	85	85			
X2			1	694.9	696					
X3	10							696.5	696	
BT	8	0	710	0	215	700	0	400	695.6	0
BT	718	694.3	696.5	692.7	694.1	692.7	900	693.8	697.8	1420
BT	698	0	1710	701.8	704	0				
NC	.06	.06	.05	0.1	0.3					
QT	5	2800	4175	4700	7600	4700				

(X1) 27965	13	677	716	50	50	50		-2.194		
GR 710	0	700	200	696.2	677	688.7	685	687.5	700	
GR 688.5	712	696	716	699.3	745	697.2	800	698	1080	
GR 700	1170	700	1240	710	1315					
(X1) 29510	26	497	521	1545	1545	1545		-2.194		
GR 717.0	0	716.0	25	710.0	65	704.0	135	701.4	200	
GR 699.5	210	700.5	215	698.9	235	699.5	250	700.0	300	
GR 699.5	350	696.3	362	697.1	400	697.1	465	699.5	482	
GR 696.5	497	691.2	503	691.4	510	690.8	518	691.5	521	
GR 698.9	535	696.5	545	696.2	600	696.5	730	700.0	780	
GR 715.0	920									
NC .06	.06	.05	.2	.5						
(X1) 30725	23	442	487	1215	1215	1215		-2.194		
GR 712.8	0	709.8	75	707.8	100	703.8	190	702.0	300	
GR 702.4	400	702.8	435	698.1	442	697.6	462	693.7	465	
GR 693.9	472	693.7	480	702.5	487	703.0	500	702.9	535	
GR 698.2	545	702.4	555	700.8	570	700.9	600	703.9	700	
GR 705.7	835	709.8	875	714.8	960					
(X1) 31125	17	754	794	400	400	400		-2.194		
X3 10							703	703		
GR 716	0	712	150	710	190	706	350	704	500	
GR 703	700	701.6	754	697.7	755	695.3	765	695.3	790	
GR 696.5	794	701.6	794	703	900	704	1160	706	1245	
GR 710	1350	715	1915							
(X1) 31155	0	0	0	30	30	30				
SB 0	1.3	2.5	0	40	0	232	0	695.8	695.8	
X2		1	701.6	703						
X3 10							703	703		

-0.45



BT	13	0	716	0	150	712	0	190	710	0
BT	350	706	0	500	704	0	700	703	0	754
BT	703.6	701.6	794	703.6	701.6	900	703	0	1160	704
BT	0	1245	706	0	1350	710	0	1915	715	0
NC	.1	.1	.06	.1	.3					
QT	5	2750	4100	4650	7500	4650				
X1	31195	23	714	745	40	40	40		-2.194	
GR	715.0	0	712.0	25	710.0	88	700.0	90	706.0	285
GR	704.0	315	702.0	470	701.3	600	701.8	668	704.7	680
GR	698.9	695	698.9	700	697.6	714	695.4	715	695.3	735
GR	701.8	745	702.0	808	703.0	815	700.3	825	701.5	900
GR	702.0	1060	708.0	1200	715.0	1790				
X2	32210	20	481	506	1015	1015	1015		-2.194	
GR	716.0	0	714.0	40	710.0	90	704.0	230	703.0	300
GR	702.5	435	701.0	465	701.5	481	695.3	483	696.0	503
GR	700.4	506	700.4	518	705.1	522	705.1	532	706.8	545
GR	702.5	558	702.5	600	702.1	675	702.0	980	720.0	1135
NC				.2	.5					
X1	32840	13	582	612	630	630	630		-3.484	
GR	715	0	712	70	708	285	708	400	708.5	500
GR	707.4	565	704.5	582	699	590	698.5	605	706.2	612
GR	704.8	700	708	725	720	755				
X3	33340	15	761	802	500	500	500		-2.194	
X3	10						709.5	709.5		
GR	718	0	716	60	714	185	712	215	708	500
GR	707	740	704.5	761	700	761	700	785	702.3	788
GR	704	800	706	802	707	870	710.6	900	720	1030
SB	0	1.3	2.5	0	25	0	240	.62	700	700

X1	33380	0	0	0	40	40	40			
X2			1	708	709.5					
X3	10						709.5	709.5		
BT	10	0	715.8	0	60	713.8	0	185	711.8	0
BT	212	707.2	718	335	707.8	716	0	707.1	714	761
BT	707.3	705.7	802	707.3	705.8	900	708.6	709.3	0	717.8
BT	709.5	708		709.3	708		710.8	0	1030	720
BT	0									
NC				.1	.3					
X1	33420	17	679	712	40	40	40		-2.194	
GR	720	30	716	170	712	260	710	280	708	365
GR	709	600	708.7	615	706	655	705.3	679	700	688
GR	700	695	699.6	700	705.1	712	704.5	765	707.5	800
GR	711	810	720	875						
NC				.2	.5					
QT	5	2700	4050	4600	7400	4600				
X1	33795	17	915	980	375	375	375		-2.194	
GR	720.0	0	718.0	40	716.0	100	714.0	240	712.0	305
GR	710.0	625	708.0	670	706.0	915	702.0	925	701.0	940
GR	701.0	960	702.0	970	704.0	980	706.0	1005	708.0	1045
GR	710.0	1110	720.0	1230						
X1	34295	12	695	852	500	500	500		-2.194	
X3	10						719.1	719.1		
GR	724	0	722	150	710	400	708	695	707.6	718
GR	704	745	704.5	760	702.5	805	807.7	825	709	852
GR	724	1000	728	1090						
SB	1.25	1.3	2.5	0	70	12	1667	2.4	702.5	702.5
X1	34345	0	0	0	50	50	50			
X2			1	719.6	719.1					

GR	704	745	704.5	760	702.5	805	807.7	825	709	852
GR	724	1000	728	1090						
SB	1.25	1.3	2.5	0	0	12	1667	2.4	702.5	702.5
X1	34345	0	0	0	50	50	50			
X2			1	719.6	719.1					

X3	10							719.1	719.1	
BT	9	0	721.8	0	150	719.4	0	420	717.8	0
BT	500	716.9	724	0	600	721.6	0	718.2	720	852
BT	719.9	719.1		721.8	717.1	0	695	720.4	715.8	
BT	722.1	717.4	1000	724	0	1090	725.8	728	718	
BT	719.6	719.6								
NC				.1	.3					
QT	5	2650	4000	4500	7300	4500				
X1	34495	22	788	815	150	150	150		-2.094	
GR	724.0	0	722.0	30	720.0	90	718.0	195	714.0	355
GR	712.0	500	707.6	600	712.3	755	708.7	774	707.0	785
GR	707.7	788	700.9	792	701.0	800	702.0	812	706.9	815
GR	714.8	832	713.5	853	716.5	900	717.0	1000	718.0	1030
GR	720.0	1055	724.0	1080						
X1	35410	28.0	896.0	928.0	915.0	915.0	915.0		-2.194	
GR	729.0	0	728.0	10	726.0	40	724.0	65	722.0	100
GR	720.0	165	716.0	240	714.0	300	712.0	405	708.5	700
GR	709.2	855	710.9	875	708.8	879	707.8	896	702.8	905
GR	703.1	912	703.1	926	708.0	928	711.3	935	709.0	945
GR	708.0	1007	708.3	1058	705.8	1063	706.2	1078	707.6	1080
GR	711.1	1100	720.0	1120	730.0	1155				
NC	.1	.1	.06	.2	.5					
X1	36000	17	973	1012	590	590	590		-2.194	
GR	728.0	0	726.0	30	724.0	115	722.0	165	720.0	265
GR	714.0	487	712.0	530	709.6	900	710.3	952	712.7	965
GR	710.7	973	703.0	985	702.5	995	703.0	1000	711.2	1012

X3	10							719.1	719.1	
BT	9	0	724	0	150	721.6	0	420	717.8	0
BT	500	716.9	0	600	717.1	0	695	717.2	720	852
BT	722.1	719.1	1000	724	719.3	0	725.8	720.4	718	
BT		719.6								
NC				.1	.3					
QT	5	2650	4000	4500	7300	4500				
X1	34495	.22	788	815	150	150	150			-2.094
GR	724.0	0	722.0	30	720.0	90	718.0	195	714.0	355
GR	712.0	500	707.6	600	712.3	755	708.7	774	707.0	785
GR	707.7	788	700.9	792	701.0	800	702.0	812	706.9	815
GR	714.8	832	713.5	853	716.5	900	717.0	1000	718.0	1030
GR	720.0	1055	724.0	1080						
X1	35410	28.0	896.0	928.0	915.0	915.0	915.0			-2.194
GR	729.0	0	728.0	10	726.0	40	724.0	65	722.0	100
GR	720.0	165	716.0	240	714.0	300	712.0	405	708.5	700
GR	709.2	855	710.9	875	708.8	879	707.8	896	702.8	905
GR	703.1	912	703.1	926	708.0	928	711.3	935	709.0	945
GR	708.0	1000	708.3	1058	705.8	1063	706.2	1078	707.6	1080
GR	711.1	1100	720.0	1120	730.0	1155				
NC	.1	.1	.06	.2	.5					
X1	36000	17	973	1012	530	590	590			-2.194
GR	728.0	0	726.0	30	724.0	115	722.0	165	720.0	265
GR	714.0	487	712.0	530	709.6	900	710.3	952	712.7	965
GR	710.7	973	703.0	985	702.5	995	703.0	1000	711.2	1012
GR	714.0	1200	730.0	1365						
X1	36500	12	795	840	500	500	500			-2.194
X3	10							716	716	
GR	728	0	724	115	720	330	712.3	600	711	795

GR	708	795	707.6	805	704.3	811	704.3	828	708	-840
GR	711	840	730	1320						
SB	0	1.3	2.5	0	25	0	350	1	704.3	704.3
X1	36540	0	0	0	40	40	40			
X2			1	714.5	716					
X3	10							716	716.0	
BT	10	0	728	0	115	724	0	330	720	0
BT	440	714.3 716.5	0	700	113.8 715	0	795	714.2 716.4	712.3 714.5	840
BT	716.4	714.2 714.5	900	714.1 716.3	0	1000	715.3 717.5	0	1320	727.8 730
BT	0									
NC				.1	.3					
QT	5	2600	3950	4400	7200	4400				
X1	36585	26	854	900	45	45	45		-2.194	
GR	730.5	0	728.0	50	726.0	130	724.0	220	716.0	510
GR	714.0	570	712.0	620	710.3	800	711.6	854	703.8	865
GR	703.0	875	703.7	885	708.5	890	711.0	900	710.8	915
GR	710.7	965	706.0	1000	709.5	1038	710.3	1060	705.4	1068
GR	709.5	1078	711.5	1090	711.5	1100	713.7	1200	720.0	1250
GR	730.0	1400								
QT	5	2400	3600	4050	6450	4050				
X1	38010	20	826	863	1425	1425	1425		-2.194	
GR	732.0	0	730.0	45	728.0	70	726.0	85	724.0	165
GR	722.0	275	720.0	340	716.0	470	714.0	500	712.4	800
GR	715.4	812	713.7	820	713.7	826	707.0	835	706.7	845
GR	707.0	855	712.8	863	715.0	875	712.5	885	730.0	1040
NC				.2	.5					
X1	38820	20	418	446	810	810	810		-2.194	
GR	731.0	0	728.0	100	724.0	180	722.0	205	720.0	280

GR 717.7	300	715.8	400	716.5	418	716.3	420	710.0	428
GR 710.0	435	710.3	443	713.7	446	716.2	452	715.1	500
GR 715.1	600	716.0	715	720.0	815	724.0	870	730.0	985
(X1) 39220	12	545	585	400	400	400		-2.194	
X3 10	12						720.3	720.3	
GR 733	0	722.5	400	716.3	545	714.2	545	713	560
GR 710.8	565	710.9	585	716	585	720.3	800	722	1010
GR 724	1125	730	1275						
SB 0	1.3	2.5	0	28	0	273	.8		
(X1) 39260	0	0	0	40	40	40			
X2		1	718.3	720.3					
X3 10							720.3	720.3	
BT 8		730.8 733	0	400	722.5	0	545	719.6 721.8	716.1 718.3
BT 585	719.4 721.6	716.1 718.3	800	718.1 720.3	0	1010	719.8 722	0	1125
BT 724	0	1275	727.8 730	0					
NC			.1	.3					
(X1) 39300	26	398	422	40	40	40		-2.194	
GR 734.0	0	728.0	90	724.0	125	722.0	160	720.0	200
GR 719.1	250	717.7	255	718.0	260	717.6	300	717.1	398
GR 711.2	399	710.7	405	710.7	415	716.4	422	715.8	495
GR 714.0	500	715.3	505	716.0	519	713.6	535	716.4	575
GR 716.7	600	718.0	650	722.0	720	722.0	820	724.0	935
GR 732.0	1130								
NC			.2	.5					
QT 5	2350	3450	3900	6300	3900				
(X1) 41110	19	347	365	1810	1810	1810		-2.194	
GR 734.0	0	730.0	110	728.0	155	726.8	200	721.8	300
GR 719.5	332	719.9	347	715.0	350	714.6	355	714.7	361

GR 719.2	365	718.8	400	719.2	465	718.5	475	719.3	500
GR 720.0	600	723.2	700	724.0	755	734.0	815		
→ (X1) 42210	18	309	329	1100	1100	1100		-2.194	
GR 736.0	0	730.0	120	724.0	200	723.5	222	722.8	292
GR 721.0	300	720.6	309	717.8	318	717.1	322	717.6	325
GR 722.6	329	722.0	400	722.4	500	724.2	600	726.9	650
GR 730.0	800	734.0	860	736.0	870				
(X1) 42640	12	5550	585	430	430	430		-2.194	
X3 10							730.6	730.6	
GR 738	0	732	240	731.8	300	724	540	722.5	555
GR 719	562	719	575	723	585	724	585	728	800
GR 732	875	740	1100						
SB 0	1.3	2.5	0	25	0	312	1	719	719
(X1) 42680	0	0	0	40	40	40			
X2		1	728.5	730.6					
X3 10							730.6	730.6	
BT 7	0	<sup>729.8</sup> 738	0	240	<sup>729.8</sup> 732	0	540	<sup>729.4</sup> 730.6	<sup>726.3</sup> 728.5
BT 585	<sup>728.4</sup> 730.6	<sup>726.3</sup> 728.5	600	<sup>729.8</sup> 731	0	675	<sup>729.8</sup> 732	0	1100
BT 740	0								
NC			.1	.3					
QT 5	2300	3400	3850	6200	3850				
(X1) 42725	15	552	571	45	45	45		-2.494	
GR 740	0	736	140	728	350	724	552	520.3	553
GR 720	565	724.2	571	724	600	724.5	700	730.2	775
GR 732	955	734	1020	736	1050	738	1140	740	1150
(X1) 43810	15	500	520	1085	1085	1085		-2.194	
GR 740.0	0	730.0	210	726.0	275	715	330	726.0	375
GR 726.1	480	725.5	500	721.5	502	721.5	518	725.5	520

GR 726.0	600	725.6	640	726.0	660	728.0	700	740.0	800
NC 0.090	0.090	0.065	0.1	0.3					
X1 44285	0	0	0	475	475	475			
NC 0.090	0.090	0.065	0.1	0.3					
QT 5	2250	3300	3750	6000	3750				
X1 45600	13	442	460	1315	1315	1315			
GR 735.5	0	728.4	132	727.2	185	726.1	275	726.6	348
GR 726.1	367	726.7	442	722.3	445	723.0	448	723.3	457
GR 726.8	460	730.6	505	735.5	550				
X1 47150	15	433	455	1550	1550	1550			
GR 748.1	0	737.2	110	732.6	175	730.5	248	729.2	305
GR 729.0	430	729.5	433	726.5	440	726.0	445	726.5	454
GR 729.5	455	729.2	660	730.4	682	740.0	736	748.1	755
NC 0.095	0.095	0.065	0.1	0.3					
X1 48650	20	430	450	1500	1500	1500			
GR 746.0	0	742.0	103	735.2	136	733.0	175	732.2	360
GR 733.5	425	732.2	430	728.3	432	727.7	440	728.0	447
GR 733.5	450	733.0	460	733.5	530	732.5	560	732.5	660
GR 733.2	700	735.8	775	737.8	825	737.8	840	746.0	945
NC 0.095	0.095	0.065	0.1	0.3					
QT 5	2200	3150	3600	5800	3600				
X1 50100	16	570	600	1450	1450	1450			
GR 749.5	0	746.7	130	743.8	160	738.5	285	736.5	340
GR 736.3	500	736.8	555	735.2	570	732.0	574	730.5	585
GR 736.5	590	736.5	600	735.8	635	737.5	695	740.6	735
GR 749.5	900								
X1 50185	14	856	895	85	85	85			
GR 755.8	0	749.7	205	748.5	315	746.2	410	743.6	615



GR 743.6	700	745.2	855	735.2	856	730.2	870	730.2	890
GR 734.5	895	745.2	896	747.0	995	756.0	1255		
SB 0.9	1.5	2.5		39	0.1	381			
(X1) 50215	0	0	0	30	30	30			
X2		1	741.2	745.2					
BT 7	0	755.8		205	749.7		315	748.5	
BT 410	746.2		615	743.6		700	743.6		856
BT 745.2	741.1	895	745.2	741.2	995	747.0		1255	756.0
BT									
NC 0.095	0.095	0.065	0.1	0.3					
(X2) 50300	17	415	465	85	85	85			
GR 746.0	0	743.2	65	739.3	105	737.5	175	736.5	300
GR 737.1	360	737.0	380	731.4	384	731.0	396	736.4	405
GR 736.4	415	727.2	435	737.0	465	737.4	485	739.6	620
GR 735.0	635	746.0	650						
NC 0.095	0.095	0.065	0.1	0.3					
(X3) 51825	15	520	540	1525	1525	1525			
GR 751.0	0	743.6	138	737.5	325	738.2	415	737.5	425
GR 737.7	520	732.0	522	732.8	538	736.5	540	737.0	546
GR 737.6	605	737.5	710	739.8	725	742.5	775	751.0	875
NC 0.095	0.095	0.070	0.1	0.3					
QT 5	2050	2900	3300	5300	3300				
(X4) 53700	15	332	360	1875	1875	1875			
GR 755.0	0	750.5	125	748.1	150	746.3	135	745.0	250
GR 743.2	320	743.3	332	739.5	342	739.0	350	739.6	356
GR 742.1	360	746.4	380	751.4	435	751.5	465	755.0	515
(X5) 53785	11	458	533	85	85	85			
GR 763.0	0	759.7	75	751.6	355	751.8	458	746.5	458

GR 740.6	482	740.3	518	746.3	533	751.8	533	753.3	636
GR 763.0	930								
SB 1.25	1.5	2.5		75	1.0	599			
X1 53815	0	0	0	30	30	30			
X2		1	750.8	751.8					
BT 7	0	763.0		75	759.7	355	751.6		458
BT 751.8	750.0	533	751.8	750.0	636	753.3		930	763.0
BT									
NC 0.095	0.095	0.075	0.1	0.3					
X1 53900	14	270	295	85	85	85			
GR 755.0	0	751.5	55	747.7	100	747.7	160	744.0	215
GR 743.8	270	738.5	275	739.5	288	743.4	295	744.2	325
GR 744.0	360	742.5	380	743.7	430	751.6	480	755.0	520
NC 0.095	0.095	0.075	0.1	0.3					
X1 55175	17	351	380	1275	1275	1275			
GR 753.5	25	750.5	93	748.5	168	745.0	218	745.5	270
GR 744.6	300	745.5	330	744.0	340	745.5	351	740.6	371
GR 745.6	380	745.6	433	744.6	455	746.7	555	751.5	605
GR 750.7	620	753.5	700						
NC 0.095	0.095	0.075	0.1	0.3					
QT 5	1950	2700	3100	5000	3100				
X1 57175	23	628	755	2000	2000	2000			
GR 763.1	0	761.5	135	757.1	155	750.5	175	754.5	238
GR 757.1	248	754.3	317	754.5	365	751.6	502	751.4	534
GR 746.6	628	746.3	734	748.5	755	746.4	792	746.4	814
GR 753.5	840	747.5	842	747.0	845	747.5	855	751.5	857
GR 751.5	892	754.6	932	763.5	975				
NC 0.095	0.095	0.075	0.1	0.3					

GR 740.6	482	740.3	518	746.3	533	751.8	533	753.3	636
GR 763.0	930								
SB 1.25	1.5	2.5		75	1.0	599			
X1 53815	0	0	0	30	30	30			
X2		1	750.8	751.8					
BT 7	0	763.0		75	759.7	355	751.6		458
BT 751.8	750.0	533	751.8	750.0	636	753.3		930	763.0
BT									
NC 0.095	0.095	0.075	0.1	0.3					
X1 53900	14	270	295	85	85	85			
GR 755.0	0	751.5	55	747.7	100	747.7	160	744.0	215
GR 743.8	270	738.5	275	739.5	288	743.4	295	744.2	325
GR 744.0	360	742.5	380	743.7	430	751.6	480	755.0	520
NC 0.095	0.095	0.075	0.1	0.3					
X1 55175	17	351	380	1275	1275	1275			
GR 753.5	25	750.5	93	748.5	168	745.0	218	745.5	270
GR 744.6	300	745.5	330	744.0	340	745.5	351	740.6	371
GR 745.6	380	745.6	433	744.6	455	746.7	555	751.5	605
GR 750.7	620	753.5	700						
NC 0.095	0.095	0.075	0.1	0.3					
QT 5	1950	2700	3100	5000	3100				
X1 57175	23	628	755	2000	2000	2000			
GR 763.1	0	761.5	135	757.1	155	750.5	175	754.5	238
GR 757.1	248	754.3	317	754.5	365	751.6	502	751.4	534
GR 746.6	628	746.3	734	748.5	755	746.4	792	746.4	814
GR 753.5	840	747.5	842	747.0	845	747.5	855	751.5	857
GR 751.5	892	754.6	932	763.5	975				
NC 0.095	0.095	0.075	0.1	0.3					

ⓧ 60700	13	665	693	3525	3525	3525			
GR 766.0	0	762.2	255	761.7	412	759.0	525	759.5	650
GR 759.0	665	756.8	680	755.5	683	755.5	690	758.8	693
GR 760.0	730	759.8	832	766.0	845				
NC 0.095	0.095	0.075	0.1	0.3					
ⓧ 60790	12	1290	1315	90	90	90			
GR 779.0	0	775.5	90	771.2	260	766.0	645	763.6	1000
GR 765.0	1289	756.2	1290	756.2	1310	758.6	1315	765.5	1316
GR 766.9	1415	779.0	1560						
SB 0.9	1.5	2.5		25	0.1	187			
ⓧ 60810	0	0	0	20	20	20			
X2 <i>0.9 removed</i>		1	764.0	765.0					
BT 7	0	779.0		90	775.5		260	771.2	
BT 645	766.0		1000	763.6	1290	765.0	763.8	1315	765.5
BT 764.0									
NC 0.095	0.095	0.075	0.1	0.3					
ⓧ 60900	12	534	548	90	90	90			
GR 764.5	0	763.0	25	760.5	260	760.5	490	758.6	510
GR 760.0	530	759.5	534	755.7	537	757.0	545	760.0	548
GR 760.0	565	764.5	620						
ⓧ 61365	12	1209	1224	465	465	465			
GR 783.4	1000	774.7	1100	769.3	1200	768.2	1209	763.6	1210
GR 763.5	1216	764.2	1221	766.2	1224	766.2	1300	766.6	1400
GR 777.8	1500	781.4	1542						
ⓧ 63305	13	1400	1410	1940	1940			-2.0	
GR 774.9	1000	775.4	1100	776.2	1200	777.2	1300	772.7	1400
GR 769.2	1402	769.0	1405	769.2	1408	772.8	1410	777.4	1500
GR 781.4	1600	781.5	1700	780.0	1800				

(X1) 63405	14	1393.2	1406.9	100	100	100				
GR 783.0	800	773.9	995	774.4	1095	775.2	1195	776.2	1295	
GR 771.7	1393.2	760.0	1393.2	768.0	1406.9	771.7	1406.9	776.4	1495	
GR 780.4	1595	780.5	1600	780.3	1700	780.2	1800			
SB 0.9	1.5	2.5	0	13.7	0.01	139.74				
(X1) 63561	0	0	0	156	156	156				
X2		1	778.2	780.2						
BT 12	1000	781.8	0	1100	781.4	0	1200	781.3	0	
BT 1300	781.0	0	1393.1	781.3	0	1393.2	781.3	778.2	1406.9	
BT 781.3	778.2	1407	781.3	0	1500	780.7	0	1600	780.5	
BT 0	1700	780.3	0	1800	780.2	0				
(X1) 63661	13	1400	1410	100	100	100				
GR 774.9	1000	775.4	1100	776.2	1200	777.2	1300	772.7	1400	
GR 769.2	1402	769.0	1405	769.2	1408	772.8	1410	777.4	1500	
GR 781.4	1600	781.5	1700	780.0	1800					
(X1) 64205	11	1222	1240	544	544	544				
GR 783.2	1000	777.4	1100	777.1	1200	777.7	1222	780.8	1231	
GR 770.2	1233	770.8	1238	777.1	1240	779.0	1300	783.1	1400	
GR 793.3	1550									
(X2) 64305	18	1191	1201	100	100	100				
GR 788.0	930	786.1	963	780.3	1063	780.0	1163	780.6	1185	
GR 775.7	1191	773.1	1191	773.1	1201	774.0	1201	780.0	1203	
GR 781.9	1263	786.0	1363	788.5	1375	788.4	1400	790.9	1500	
GR 795.9	1600	802.0	1700	807.2	1794					
SB 0.9	1.5	2.5	0	10	0.01	100				
(X3) 64385	0	0	0	80	80	80				
X2		1	783.1	788.4						
BT 12	1000	801.6	0	1100	797.6	0	1190.9	792.6	0	

BT	1191	792.6	783.1	1201	792.6	783.1	1201.1	792.6	0	1300
BT	788.7	0	1400	788.4	0	1500	790.9	0	1600	795.9
BT	0	1700	802.0	0	1794	807.2	0			
X3	64485	11	1222	1240	100	100	100		+5.8	
GR	783.2	1000	777.4	1100	777.1	1200	777.7	1222	780.8	1231
GR	770.2	1233	770.8	1238	777.1	1240	779.0	1300	783.1	1400
GR	793.3	1550								

EJ

T1 ROWAN COUNTY BASIN F STREAM 3 TOWN CREEK  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 3 .0002 633.6

J2 2 -1

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

J1 -10 4 .0002 636.6

J2 3 -1

T1 ROWAN COUNTY BASIN F STREAM 3 TOWN CREEK  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 5 .0002 638.6

J2 15 -1

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TOWN CREEK	SWCC DATA								
X1 100	26	340	900	100	100	100			
GR 633.8	60	625.0	100	624.5	115	622.0	175	622.5	340
GR 621.9	405	621.6	705	622.5	900	622.0	928	622.7	1488
GR 624.5	1555	624.5	1600	623.0	1625	624.5	1668	624.5	1705
GR 622.5	1730	622.6	1925	622.0	2075	622.7	2160	623.5	2305
GR 621.6	2455	622.3	2525	622.6	2640	621.6	2735	622.0	2750
GR 633.8	2800								
X1 2355	18	328	370	2255	2255	2255			
GR 633.5	30	624.5	60	623.7	138	625.0	145	623.8	245
GR 624.3	305	626.4	315	626.4	328	620.7	332	621.3	355
GR 620.9	367	626.1	370	626.0	386	624.4	390	623.7	425
GR 624.0	1020	627.6	1060	633.5	1080				
X1 5605	18	583	623	3250	3250	3250			
GR 636.0	75	633.5	110	632.6	175	629.4	230	628.1	330
GR 628.7	425	629.0	480	628.7	550	632.4	563	629.7	573
GR 630.0	583	622.6	588	622.7	618	629.3	623	631.0	640
GR 629.5	650	628.5	700	636.0	900				
X1 8030	21	275	297	2425	2425	2425			
GR 642.5	50	639.2	175	637.5	270	634.5	275	625.5	280
GR 625.7	294	631.5	297	635.5	310	632.8	340	634.4	370
GR 634.0	390	630.0	395	629.6	414	635.0	420	633.7	445
GR 633.2	476	634.2	526	633.6	530	633.8	605	635.8	675
GR 642.6	700								
X1 9530	23	540	600	1500	1500	1500			
GR 651.6	0	643.7	100	642.5	160	640.5	200	640.5	350
GR 638.2	445	638.4	515	637.5	524	640.4	527	636.8	536
GR 638.7	540	630.4	548	629.3	567	629.7	580	638.6	600

TOWN CREEK  
DC FROM SWCC



GR 637.7	600	637.6	660	639.4	732	640.3	900	645.5	1105
GR 645.2	1125	647.2	1220	651.6	1292				
X1 11100	10	97	140	1570	1570	1570			
GR 650.5	0	644.0	20	635.2	42	634.6	58	634.6	75
GR 641.0	85	644.0	97	634.0	111	646.5	140	650.5	148
X1 11184	14	800	840	84	84	84			
GR 656.3	0	649.5	120	645.0	240	645.3	440	649.6	610
GR 650.6	680	651.2	799	638.5	800	635.5	805	636.2	827
GR 638.6	840	652.1	841	653.5	1010	656.3	1100		
SB 0.9	1.5	2.5		40	0.1	455			
X1 11216	0	0	0	32	32	32			
X2		1	648.6	651.2					
BT 10	0	656.3		120	649.5		240	645.0	
BT 440	645.3		610	649.6		680	650.6		800
BT 651.2	647.2	840	652.1	647.2	1010	653.5		1100	656.3
BT									
X1 11300	17	54	86	84	84	84			
GR 625.5	0	651.0	10	645.8	22	644.4	47	641.0	48
GR 640.6	54	637.6	57	636.6	66	637.5	78	643.4	86
GR 644.6	103	644.0	116	645.0	150	642.5	160	646.0	170
GR 650.5	175	652.5	220						
X1 13400	20	730	764	2100	2100	2100			
GR 666.0	0	660.3	85	658.0	190	654.8	360	652.5	470
GR 649.5	560	648.2	680	649.5	710	647.5	730	642.5	734
GR 641.5	744	642.0	755	648.4	764	649.4	785	648.1	815
GR 646.0	820	646.0	830	643.2	834	653.0	870	666.0	890
X1 15150	16	362	390	1750	1750	1750			
GR 664.5	0	656.5	35	651.5	75	651.5	325	653.0	340

GR 652.1	350	650.4	355	650.4	362	646.0	365	646.3	386
GR 652.0	390	653.3	400	647.0	415	653.2	432	655.0	465
GR 664.5	515								
X1 17100	11	314	360	1950	1950	1950			
GR 674.5	0	664.5	117	662.5	158	661.3	240	659.2	514
GR 652.4	326	662.5	360	663.4	369	662.8	415	662.0	425
GR 674.5	452								
X1 17189	10	356	397	89	89	89			
GR 676.7	0	668.5	140	665.8	290	665.4	355	657.5	556
GR 653.6	370	653.5	397	665.4	398	666.3	495	676.7	880
SB 0.9	1.5	2.5	0	41	0.1	380			
X1 17212	0	0	0	23	23	23			
X2		1	663.4	665.4					
BT 7	0	676.7		140	668.5		290	665.8	
BT 356	665.4	663.4	397	665.4	663.4	495	666.3		880
BT 676.7									
X1 17300	19	300	337	88	88	88			
GR 676.0	0	671.6	26	666.7	115	664.5	190	664.5	205
GR 662.2	225	661.5	290	659.6	300	655.4	307	655.5	333
GR 660.6	337	661.2	345	659.5	350	659.5	387	661.0	393
GR 665.6	515	668.4	518	672.0	625	676.0	690		
X1 45600	13	442	460	1315	1315	1315			
GR 735.5	0	728.4	132	727.2	185	726.1	275	726.6	348
GR 726.1	367	726.7	442	722.3	445	723.0	448	723.3	457
GR 726.8	460	730.6	505	735.5	550				
X1 47150	15	433	455	1550	1550	1550			
GR 748.1	0	737.2	110	732.6	175	730.5	248	729.2	305
GR 729.0	430	729.5	433	726.5	440	726.0	445	726.5	454

↑ CORP DATA ↓

1922 13  
17300  
17310

GR 729.5	455	729.2	660	730.4	682	740.0	736	748.1	155
X1 48650	20	430	450	1500	1500	1500			
GR 746.0	0	742.0	103	735.2	136	733.0	175	732.2	560
GR 733.5	425	732.2	430	728.3	432	727.7	440	728.0	447
GR 733.5	450	733.0	460	733.5	530	732.5	560	732.5	660
GR 733.2	700	735.8	775	737.8	825	737.8	840	746.0	945
X1 50100	16	570	600	1450	1450	1450			
GR 749.5	0	746.7	130	743.8	160	738.5	285	736.5	540
GR 736.3	500	736.8	555	735.2	570	732.0	574	730.5	585
GR 736.5	590	736.5	600	735.8	635	737.5	695	740.6	135
GR 749.5	900								
X1 50185	14	856	895	85	85	85			
GR 755.A	0	749.7	205	748.5	315	746.2	410	743.6	615
GR 745.6	700	745.2	855	735.2	856	730.2	870	730.2	890
GR 734.5	895	745.2	896	747.0	995	756.0	1255		
SB 0.9	1.5	2.5		39	0.1	381			
X1 50215	0	0	0	30	30	30			
X2		1	741.2	745.2					
BT 7	0	755.8		205	749.7		315	748.5	
BT 410	746.2		615	743.6		700	743.6		856
BT 745.2	741.1	895	745.2	741.2	995	747.0		1255	756.0
BT									
X1 50300	17	415	465	85	85	85			
GR 746.0	0	743.2	65	739.3	105	737.5	175	736.5	300
GR 737.1	360	737.0	380	731.4	384	731.0	396	736.4	405
GR 736.4	415	727.2	435	737.0	465	737.4	485	739.6	620
GR 735.0	635	746.0	650						
X1 51825	15	520	540	1525	1525	1525			

GR 751.0	0	743.6	138	737.5	325	738.2	415	737.5	425
GR 737.7	520	732.0	522	732.8	538	736.5	540	737.0	546
GR 737.6	605	737.5	710	739.8	725	742.5	775	751.0	875
X1 53700	15	332	360	1875	1875	1875			
GR 755.0	0	750.5	125	748.1	150	746.3	135	745.0	250
GR 743.2	320	743.3	332	739.5	342	739.0	350	739.6	356
GR 742.1	360	746.4	380	751.4	435	751.5	465	755.0	515
X1 53785	11	458	533	85	85	85			
GR 763.0	0	759.7	75	751.6	355	751.8	458	746.5	458
GR 740.6	482	740.3	518	746.3	533	751.8	533	753.3	636
GR 763.0	930								
SB 1.25	1.5	2.5		75	1.0	599			
X1 53815	0	0	0	30	30	30			
X2		1	750.8	751.8					
BT 7	0	763.0		75	759.7	355	751.6		458
BT 751.8	750.0	533	751.8	750.0	636	753.3		930	763.0
BT									
X1 53900	14	270	295	85	85	85			
GR 755.0	0	751.5	55	747.7	100	747.7	160	744.0	215
GR 743.8	270	738.5	275	739.5	288	743.4	295	744.2	325
GR 744.0	360	742.5	380	743.7	430	751.6	480	755.0	520
X1 55175	17	351	380	1275	1275	1275			
GR 753.5	25	750.5	93	748.5	168	745.0	218	745.5	270
GR 744.6	300	745.5	330	744.0	340	745.5	351	740.6	371
GR 745.6	380	745.6	433	744.6	455	746.7	555	751.5	605
GR 750.7	620	753.5	700						
X1 57175	23	628	755	2000	2000	2000			
GR 763.1	0	761.5	135	757.1	155	750.5	175	754.5	238

GR 757.1	248	754.3	317	754.5	365	751.6	502	751.4	534
GR 746.6	628	746.3	734	748.5	755	746.4	792	746.4	814
GR 753.5	840	747.5	842	747.0	845	747.5	855	751.5	857
GR 751.5	892	754.6	932	763.5	975				
X1 60700	13	665	693	3525	3525	3525			
GR 766.0	0	762.2	255	761.7	412	759.0	525	759.5	650
GR 759.0	665	756.8	680	755.5	683	755.5	690	758.8	693
GR 760.0	730	759.8	832	766.0	845				
X1 60790	12	1290	1315	90	90	90			
GR 779.0	0	775.5	90	771.2	260	766.0	645	763.6	1000
GR 765.0	1289	756.2	1290	756.2	1310	758.6	1315	765.5	1316
GR 766.9	1415	779.0	1560						
SB 0.9	1.5	2.5		25	0.1	187			
X1 60810	0	0	0	20	20	20			
X2 0.9		1	764.0	765.0					
BT 7	0	779.0		90	775.5		260	771.2	
BT 645	766.0		1000	763.6	1290	765.0	763.8	1315	765.5
BT 764.0									
X1 60900	12	534	548	90	90	90			
GR 764.5	0	763.0	25	760.5	260	760.5	490	758.6	510
GR 760.0	530	759.5	534	755.7	537	757.0	545	760.0	548
GR 760.0	565	764.5	620						

RTD001 JOB RTT.A25.P03070.MAK.M=1,I=2,P=200,PTY=1,D=RTMG  
 //\*PROCLIB=RTI.MG.PROCLIB  
 // EXEC HEC2  
 //SYSIN DD \*  
 T1 ROWAN COUNTY BASIN F STREAM 3 TOWN CREEK  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	-1	2								624.0
J2	-1		-1							
J3	38	39	40	41	43	42	1	2	26	53
J3	54	25	50							
NC	0.085	0.085	0.060	0.1	0.3					
BT	1	12500								
BT	5	0	0	0	0	-10.4				
X1	100	26	340	900	100	100	100			
GR	633.3	60	625.0	100	624.5	115	622.0	175	622.5	340
GR	621.9	405	621.6	705	622.5	900	622.0	928	622.7	1488
GR	624.5	1555	624.5	1600	623.0	1625	624.5	1668	624.5	1705
GR	622.5	1730	622.6	1925	622.0	2075	622.7	2160	623.5	2305
GR	621.6	2455	622.3	2525	622.6	2640	621.6	2735	622.0	2750
GR	633.8	2800								
BT	1	12400								
X1	2300	18	320	370	2200	2200	2200			
GR	633.5	30	624.5	60	623.7	138	625.0	145	623.8	245
GR	624.3	305	626.4	315	626.4	328	620.7	332	621.3	355
GR	620.9	367	626.1	370	626.0	366	624.4	390	623.7	425
GR	624.0	1020	627.6	1060	633.5	1080				
NC	0.085	0.085	0.060	0.1	0.3					
BT	1	12000								
X1	5700	18	583	623	3400	3400	3400			
GR	636.0	75	633.5	110	632.6	175	629.4	230	628.1	330
GR	628.7	425	629.0	480	629.7	550	632.4	563	629.7	573
GR	630.0	503	622.6	588	622.7	618	629.3	623	631.0	640
GR	629.5	650	628.5	700	636.0	900				
NC	0.085	0.085	0.060	0.1	0.3					
BT	1	11700								
X1	8000	21	275	297	2300	2300	2300			
GR	642.5	50	639.2	175	637.5	270	634.5	275	625.5	280
GR	625.7	294	631.5	297	635.5	310	632.8	340	634.4	370
GR	634.0	390	630.0	395	629.6	414	635.0	420	633.7	445
GR	633.2	476	634.2	526	633.6	530	633.8	605	635.8	675
GR	642.5	700								
NC	0.080	0.080	0.060	0.1	0.3					
BT	1	11300								
X1	9580	23	340	600	1570	1570	1570			
GR	651.6	4	643.7	100	642.5	160	640.5	200	640.5	350
GR	632.2	445	638.4	515	637.5	524	640.4	527	636.0	536
GR	632.7	540	630.4	548	629.3	567	629.7	580	636.6	600
GR	637.7	608	637.6	660	639.4	732	640.3	900	645.8	1105
GR	645.2	1125	647.2	1220	651.6	1292				

NC	0.090	0.090	0.060	0.1	0.3					
QT	1	11300								
X1	11150	19	97	140	1570	1570	1570			
GR	650.5	0	644.0	20	635.2	42	634.6	50	634.6	75
GR	641.0	85	647.0	97	634.0	111	646.5	140	650.5	148
X1	11234	14	800	640	84	84	84			
GR	656.3	0	649.5	120	645.0	240	645.3	440	649.6	610
GR	650.6	630	651.2	799	638.5	800	635.5	805	636.2	827
GR	638.6	840	652.1	841	653.5	1010	656.3	1100		
SE	0.9	1.5	2.5		40	0.1	455			
X1	11266	0	0	0	32	32	32			
X2			1	649.6	651.2					
BT	10	0	656.3		120	649.5		240	645.0	
BT	440	645.3		610	649.6		680	650.6		800
BT	651.2	647.2	840	652.1	647.2	1010	653.5		1100	656.3
BT										
NC	0.090	0.090	0.060	0.1	0.3					
QT	1	11100								
X1	11350	17	54	86	84	84	84			
GR	652.5	0	651.0	10	645.8	22	644.4	47	641.0	48
GR	640.6	54	637.6	57	636.6	66	637.5	78	643.4	86
GR	644.6	103	644.0	116	645.0	150	642.5	160	646.0	170
GR	650.5	175	652.5	220						
QT	1	10800								
X1	13500	20	730	764	2150	2150	2150			
GR	666.0	0	660.3	85	658.0	190	654.9	360	652.5	470
GR	649.5	560	648.2	680	649.5	710	647.5	730	642.5	734
GR	641.5	744	642.0	755	648.4	764	649.4	785	648.1	815
GR	646.0	620	646.0	830	643.2	834	653.0	870	666.0	890
NC	0.080	0.080	0.060	0.1	0.3					
QT	1	10500								
X1	14800	16	362	390	1300	1300	1300			
GR	664.5	0	656.5	35	651.5	75	651.5	325	653.0	340
GR	652.1	350	650.4	355	650.4	362	646.0	365	646.3	386
GR	652.0	390	653.3	400	647.0	415	653.2	432	655.0	465
GR	664.5	515								
NC	0.085	0.085	0.060	0.1	0.3					
QT	1	10300								
X1	16980	11	314	360	2180	2180	2180			
GR	674.5	0	664.5	117	662.5	158	661.3	240	659.2	314
GR	652.4	326	662.5	360	663.4	369	662.8	415	662.0	425
GR	674.5	452								
X1	17069	10	356	397	89	89	89			
GR	676.7	0	668.5	140	665.8	290	665.4	355	657.5	356
GR	653.6	370	653.5	397	665.4	398	666.3	495	676.7	880
SE	0.9	1.5	2.5	0	41	0.1	380			
X1	17092	3	0	0	23	23	23			
X2			1	643.4	665.4					
BT	7	0	676.7		140	668.5		290	665.8	
BT	756	645.4	663.4	397	665.4	663.4	495	666.3		880

BT	676.7									
NC	0.085	0.085	0.060	0.1	0.3					
X1	17100	19	300	337	88	88				
GR	676.0	0	671.6	26	666.7	115	664.5	190	664.5	205
GR	662.2	225	661.5	290	659.6	300	655.4	307	655.5	333
GR	660.6	337	661.2	345	659.5	350	659.5	387	661.0	393
GR	665.6	515	668.4	518	672.0	625	676.0	690		
NC	0.070	0.070	0.050	0.1	0.3					
QT	1	9750								
X1	19125	25	487	526	1945	1945	1945		-2.194	
GR	683.5	0	672.0	80	668.0	140	667.9	200	667.5	300
GR	666.6	400	667.6	487	666.0	492	661.6	495	661.6	510
GR	666.8	515	668.8	526	669.1	580	668.5	585	667.0	590
GR	665.3	593	664.5	600	665.3	605	667.7	610	667.6	700
GR	667.5	710	673.6	800	673.7	850	676.0	925	680.0	970
X1	19150	0	0	0	25	25	25			
X1	19175	0	0	0	25	25	25			
NC	0.070	0.070	0.060	0.1	0.3					
X1	19225	0	0	0	50	50	50			
X1	19325	0	0	0	100	100	100			
QT	1	10000								
X1	20125	22	557	600	800	800	800		-2.194	
GR	692.5	0	686.0	95	680.0	140	678.0	170	676.0	240
GR	674.0	330	670.3	400	669.4	530	670.8	557	668.5	562
GR	662.0	564	663.1	573	663.1	583	669.3	585	700.4	600
GR	669.6	612	665.0	635	669.0	650	670.0	700	675.4	810
GR	680.0	880	690.0	955						
NC	0.070	0.070	0.060	0.1	0.3					
X1	21125	23	442	493	1000	1000	1000		-2.194	
GR	693.0	0	688.0	95	684.0	155	680.0	200	674.4	360
GR	674.4	400	675.4	442	669.6	460	669.0	463	669.1	472
GR	671.8	475	677.0	493	673.5	515	674.5	523	675.5	600
GR	675.5	625	673.5	628	673.0	640	674.7	645	676.0	653
GR	675.6	700	676.5	750	690.0	920				
X1	22125	20	485	522	1000	1000	1000		-2.194	
GR	690.0	0	683.0	65	686.0	80	684.0	115	682.0	145
GR	680.0	160	678.0	210	676.0	482	675.0	485	674.0	486
GR	672.0	490	671.5	495	671.5	510	672.0	515	674.0	520
GR	675.0	522	676.0	528	678.0	585	680.0	610	690.0	790
X1	22600	22	660	692	500	500	500		-2.194	
GR	690.0	0	689.0	15	686.0	90	684.0	130	682.0	250
GR	682.0	365	683.8	500	683.6	558	681.6	575	681.3	605
GR	675.6	615	681.3	635	678.5	660	675.2	665	674.8	675
GR	675.1	685	680.5	692	679.5	705	680.3	728	678.8	738
GR	678.5	765	690.5	785						
X1	23085	10	247	273	300	500	675		-2.644	
GR	704	30	700	80	698	85	685.7	155	684.5	200
GR	682.7	247	678.5	249	677	260	678.5	270	683.3	273
GR	683	290	687	310	687.8	400	688.8	435	694	540
GR	698	585	700	500	704	680				



T3	50 YEAR FLOOD WATER SURFACE PROFILE		
J1	-10	3	736.1
J2	2	-1	
T1	ROWAN COUNTY	BASIN G	STREAM 1 CRANE CREEK
T2	FLOODPLAIN STUDY AT ROWAN & DAVIDSON	COUNTIES	M-G JOB NO. 6918
T3	100 YEAR FLOOD WATER SURFACE PROFILE		
J1	-10	4	736.7
J2	3	-1	
T1	ROWAN COUNTY	BASIN G	STREAM 1 CRANE CREEK
T2	FLOODPLAIN STUDY AT ROWAN & DAVIDSON	COUNTIES	M-G JOB NO. 6918
T3	500 YEAR FLOOD WATER SURFACE PROFILE		
J1	-10	5	738.1
J2	15	-1	
EJ			

ER