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12/8/77

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TOWN CREEK  
MOUTH - SALISBURY  
500 YEAR

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PROGRAMMER=MAK	ACCOUNT=RT1.A25.P03078		
JOB TURN-AROUND	JOB PARAMETERS	TIME USED INCLUDES	MISC. JOB VALUES
DATE	TIME	SPECIFIED	USED
ENTERED 12/07/77	13:26:43.2	TIME 2:00.0	0:14.4
EXECUTED 12/07/77	13:30:57.2	PAGES 200	13
RETURNED 12/07/77	15:49:08.9	CARDS 0	0
JOB ENTERED ON WEDNESDAY		PLOTS 0	0
		NO.	EQUIVALENT
		CPU	0:03.0
		UR EXCPS	900
		DISK EXCPS	387
		TAPE READ-WRITE	0:00.0
		TAPE FILE SEARCH	0:00.0
		LINES IN	155
		LINES OUT	658
		MEMORY TIME	7185 K-SEC
		PRIORITY	01
		APPROX. COST	\$4.10

J O B   C O N S O L E   L O G

N 13.30.14 JOB 71 -- RTOWN1 -- JCL INTERPRETED. TUCC CPU #2  
N 13.30.57 JOB 71 -- RTOWN1 -- BEGINNING EXEC - INIT 5 - CLASS  
L\*13.30.57 JOB 71 +++++S=163,T=02,J=RTOWN1 13:30:57 MAK  
N 13.31.28 JOB 71 END EXECUTION.



X1	8000.000	21.000	275.000	297.000	2300.000	2300.000	2300.000	0.0	0.0	0.0
GR	642.500	50.000	639.200	175.000	637.500	270.000	634.500	275.000	625.500	280.000
GR	625.700	294.000	631.500	297.000	635.500	310.000	632.800	340.000	634.400	370.000
GR	634.000	390.000	630.000	395.000	629.600	414.000	635.000	420.000	633.700	445.000
GR	633.200	476.000	634.200	526.000	633.600	530.000	633.800	605.000	635.800	675.000
GR	642.600	700.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	11300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	9580.000	23.000	540.000	600.000	1570.000	1570.000	1570.000	0.0	0.0	0.0
GR	651.600	0.0	643.700	100.000	642.500	150.000	640.500	200.000	640.500	350.000
GR	638.200	445.000	638.400	515.000	637.500	524.000	640.400	527.000	636.800	536.000
GR	638.700	540.000	630.400	548.000	629.300	567.000	629.700	580.000	638.600	600.000
GR	637.700	608.000	637.600	660.000	639.400	732.000	640.300	900.000	645.500	1105.000
GR	645.200	1125.000	647.200	1220.000	651.600	1292.000	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	11300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	11150.000	10.000	97.000	140.000	1570.000	1570.000	1570.000	0.0	0.0	0.0
GR	650.500	0.0	644.000	20.000	635.200	42.000	634.600	58.000	634.600	75.000
GR	641.000	85.000	644.000	97.000	634.000	111.000	646.500	140.000	650.500	148.000

X1	11234.000	14.000	800.000	840.000	84.000	84.000	84.000	0.0	0.0	0.0
GR	656.300	0.0	649.500	120.000	645.000	240.000	645.300	440.000	649.600	610.000
GR	650.600	680.000	651.200	799.000	638.500	800.000	635.500	805.000	636.200	827.000
GR	638.600	840.000	652.100	841.000	653.500	1010.000	656.300	1100.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	40.000	0.100	455.000	0.0	0.0	0.0

X1	11266.000	0.0	0.0	0.0	32.000	32.000	32.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	648.600	651.200	0.0	0.0	0.0	0.0	0.0
BT	10.000	0.0	656.300	0.0	120.000	649.500	0.0	240.000	645.000	0.0
BT	440.000	645.300	0.0	610.000	649.600	0.0	680.000	650.600	0.0	800.000
BT	651.200	647.200	840.000	652.100	647.200	1010.000	653.500	0.0	1100.000	656.300
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	11100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	11350.000	17.000	54.000	86.000	84.000	84.000	84.000	0.0	0.0	0.0
GR	652.500	0.0	651.000	10.000	645.800	22.000	644.400	47.000	641.000	48.000
GR	640.600	54.000	637.600	57.000	636.600	66.000	637.500	76.000	643.400	86.000
GR	644.600	103.000	644.000	116.000	645.000	150.000	642.500	160.000	646.000	170.000
GR	650.500	175.000	652.500	220.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	1.000	10800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	13500.000	20.000	730.000	764.000	2150.000	2150.000	2150.000	0.0	0.0	0.0
GR	666.000	0.0	660.300	85.000	658.000	190.000	654.800	360.000	652.500	470.000
GR	649.500	560.000	648.200	680.000	649.500	710.000	647.500	730.000	642.500	734.000
GR	641.500	744.000	642.000	755.000	648.400	764.000	649.400	785.000	648.100	815.000
GR	646.000	820.000	646.000	830.000	643.200	834.000	653.000	870.000	666.000	890.000
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	10500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	14800.000	16.000	362.000	390.000	1300.000	1300.000	1300.000	0.0	0.0	0.0
GR	664.500	0.0	656.500	35.000	651.500	75.000	651.500	325.000	653.000	340.000
GR	652.100	350.000	650.400	355.000	650.400	362.000	646.000	365.000	646.300	386.000
GR	652.000	390.000	653.300	400.000	647.000	415.000	653.200	432.000	655.000	465.000
GR	664.500	515.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

QT	1.000	10300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	16980.000	11.000	314.000	360.000	2180.000	2180.000	2180.000	0.0	0.0	0.0
GR	674.500	0.0	664.500	117.000	662.500	158.000	661.300	240.000	659.200	314.000
GR	652.400	326.000	662.500	360.000	663.400	369.000	662.800	415.000	662.000	425.000
GR	674.500	452.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	17069.000	10.000	356.000	397.000	89.000	89.000	89.000	0.0	0.0	0.0
GR	676.700	0.0	668.500	140.000	665.800	290.000	665.400	355.000	657.500	356.000
GR	653.600	370.000	653.500	397.000	665.400	398.000	666.300	495.000	676.700	880.000
SB	0.900	1.500	2.500	0.0	41.000	0.100	380.000	0.0	0.0	0.0
X1	17092.000	0.0	0.0	0.0	23.000	23.000	23.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	663.400	665.400	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	676.700	0.0	140.000	668.500	0.0	290.000	665.800	0.0
BT	356.000	665.400	663.400	397.000	665.400	663.400	495.000	666.300	0.0	880.000
BT	676.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	17180.000	19.000	300.000	337.000	88.000	88.000	88.000	0.0	0.0	0.0
GR	676.000	0.0	671.600	26.000	666.700	115.000	664.500	190.000	664.500	205.000
GR	662.200	225.000	661.500	290.000	659.600	300.000	655.400	307.000	655.500	333.000
GR	660.600	337.000	661.200	345.000	659.500	350.000	659.500	387.000	661.000	393.000
GR	665.600	515.000	668.400	518.000	672.000	625.000	676.000	690.000	0.0	0.0
NC	0.070	0.070	0.050	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	9750.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	19125.000	25.000	487.000	526.000	1945.000	1945.000	1945.000	0.0	-2.194	0.0
GR	683.500	0.0	672.000	80.000	668.000	140.000	667.900	200.000	667.500	300.000
GR	666.600	400.000	667.600	487.000	666.000	492.000	661.600	495.000	661.600	510.000
GR	666.800	515.000	668.800	526.000	668.100	580.000	668.500	585.000	667.000	590.000
GR	665.300	593.000	664.500	600.000	665.300	605.000	667.700	610.000	667.600	700.000
GR	667.500	710.000	673.600	800.000	673.700	850.000	676.000	925.000	680.000	970.000
X1	19150.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X1	19175.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
NC	0.070	0.070	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	19225.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
X1	19325.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	0.0	0.0
QT	1.000	10000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	20125.000	22.000	557.000	600.000	800.000	800.000	800.000	0.0	-2.194	0.0
GR	692.500	0.0	686.000	95.000	680.000	140.000	678.000	170.000	676.000	240.000
GR	674.000	330.000	670.300	400.000	669.400	530.000	670.800	557.000	668.500	562.000
GR	662.000	564.000	663.100	573.000	663.100	583.000	669.300	585.000	700.400	600.000
GR	669.600	612.000	665.000	635.000	669.000	650.000	670.000	700.000	675.400	810.000
GR	680.000	880.000	690.000	955.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.070	0.070	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	21125.000	23.000	442.000	493.000	1000.000	1000.000	1000.000	0.0	-2.194	0.0
GR	693.000	0.0	688.000	95.000	684.000	155.000	680.000	200.000	674.400	360.000
GR	674.600	400.000	675.400	442.000	669.600	460.000	669.000	463.000	669.100	472.000



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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50.51.52  
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Page 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	CRISW	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>11350.000</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>16988.000</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	389.62	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	891.30	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>23085.000</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  
MODIFICATION - 50,51,52  
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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 TOWN CREEK  
 T2 FLOODPLAIN STUDIES ROWAN AND DAVIDSON COUNTIES M-G JOB NO. 206918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR	
	-1.	2.	0.	0.	0.0	0.0	0.0	0.	730.300	0.0	
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	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 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	0.010	0.010	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0
QT	1.000	5350.000	0.0	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	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
GR	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	
GR	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	13.000	442.000	460.000	1625.000	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	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	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	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
QT	1.000	5100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	53285.000	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
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 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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*1000-10  
 14-4  
 2nd Profile*

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
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
45650.000	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	73.50	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  
CAUTION SECNO=49785.000 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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Faint, mostly illegible data table with multiple columns and rows, possibly representing a hydrological or engineering dataset.

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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 THIRD PORTION WITH M-G 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	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	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	-10.400	0.0	0.0	0.0	0.0
X1	56600.000	23.000	628.000	755.000	56000.000	56600.000	56600.000	56600.000	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
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	750.000	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







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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	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.0	0.0	0.0	0.	752.300	0.0
J2	MPROF	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 56600.000

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRISW	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	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
0.000868	56600.	56600.	56600.	0	0	0	0.0	462.40	902.32

\*SECNO 583.750

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRISW	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	6.81	753.46	0.0	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 CEHV= 0.300  
 \*SECNO 60150.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRISW	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

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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 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.0	0.0	0.0	0.	752.700	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\*PROF 3

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 56600.000

3265 DIVIDED FLOW

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

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

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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	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.0	0.0	0.0	0.	754.240	0.0

  

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

\*PROF 4

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 56600.000

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	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	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	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	746.93
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

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	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	Q	ELMIN	CWSEL	CRISW	VCH	SSTA	ENDST	AREA	DIPWSP
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	0.33
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	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
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

MA  
 2-16-78  
 2-16-78

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	0.3
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	0.68
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	903.89	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	461.28	-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	6.45

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  
\*\*\*\*\*

EJ

## TOWN CREEK FLOODWAY

X X

## TOWN CREEK STA 2300 CROSS SECTION A

DESIRED Q	AVER SLOPE	MANNINGS N
5571.00	0.0001	0.075

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
30.00	633.50	49.67	627.60	53.40	626.48
53.50	626.45	54.67	626.10	55.00	626.00
58.33	625.00	60.00	624.50	70.83	624.40
76.25	624.35	114.17	624.00	130.42	623.85
138.00	623.78	138.40	623.85	139.26	624.00
141.27	624.35	141.56	624.40	142.13	624.50
145.00	625.00	188.48	624.50	197.17	624.40
201.52	624.35	231.96	624.00	245.00	623.85
263.00	624.00	305.00	624.35	305.24	624.40
305.71	624.50	308.10	625.00	312.86	626.00
313.33	626.10	315.00	626.45	328.00	626.48
328.02	626.45	328.26	626.10	328.33	626.00
329.03	625.00	329.38	624.50	329.44	624.40
329.48	624.35	329.72	624.00	329.83	623.85
329.88	623.78	329.90	623.75	331.56	621.35
331.83	620.97	332.00	620.72	341.13	620.97
355.00	621.35	367.00	620.97	367.22	621.35
368.63	623.75	368.64	623.78	368.68	623.85
368.77	624.00	368.98	624.35	369.01	624.40
369.06	624.50	369.36	625.00	369.94	626.00
370.00	626.10	386.00	626.00	388.50	625.00
389.75	624.50	390.00	624.40	392.69	624.35
411.54	624.00	419.62	623.85	423.38	623.78
425.00	623.75	496.40	623.78	663.00	623.85
1020.00	624.00	1023.89	624.35	1024.44	624.40
1025.56	624.50	1031.11	625.00	1042.22	626.00
1043.33	626.10	1047.22	626.45	1047.56	626.48
1060.00	627.60	1080.00	633.50	0.00	0.00

COMPUTED Q	AVER SLOPE	MANNINGS N	ELEVATION
CFS			FT
5571.00	0.000	0.075	629.96



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.

*e* 332

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

*16/1.6*

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
633.50	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	878.02	2031.08	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

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 5700 CROSS SECTION B

DESTRED Q	AVER SLOPE	MANNINGS N
5257.00	0.0005	0.075

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
75.00	636.00	110.00	633.50	175.00	632.65
178.72	632.43	202.92	631.00	219.85	630.00
224.42	629.73	228.31	629.50	230.00	629.40
235.38	629.33	260.77	629.00	280.00	628.75
283.85	628.70	299.23	628.50	330.00	628.10
388.46	628.50	417.69	628.70	425.00	628.75
480.00	629.00	538.33	628.75	550.00	628.70
550.17	628.75	551.05	629.00	552.20	629.33
552.44	629.40	552.79	629.50	553.59	629.73
554.53	630.00	558.02	631.00	563.00	632.43
568.30	631.00	572.00	630.00	573.00	629.73
583.00	630.00	583.18	629.73	583.34	629.50
583.41	629.40	583.46	629.33	583.68	629.00
583.85	628.75	583.89	628.70	584.02	628.50
584.30	628.10	587.93	622.78	588.00	622.68
618.00	622.78	622.06	628.10	622.37	628.50
622.52	628.70	622.56	628.75	622.75	629.00
623.00	629.33	623.71	629.40	624.73	629.50
627.07	629.73	629.82	630.00	640.00	631.00
646.67	630.00	648.47	629.73	650.00	629.50
655.00	629.40	658.50	629.33	675.00	629.00
687.50	628.75	690.00	628.70	700.00	628.50
705.33	628.70	706.67	628.75	713.33	629.00
722.13	629.33	724.00	629.40	726.67	629.50
732.80	629.73	740.00	630.00	766.67	631.00
804.80	632.43	810.67	632.65	833.33	633.50
900.00	636.00	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
5257.00	0.000	0.075	634.80

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.

*e 586*

*4-22*

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	1283.37	561.37
630.00	474.29	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	181.94	43.26
622.78	0.09	1.50	30.12
622.68	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 8000 CROSS SECTION C

DESIGNED Q                      AVER SLOPE                      MANNINGS N  
4964.00                              0.0012                              0.075

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
50.00	642.60	50.00	642.50	175.00	639.25
270.00	637.50	272.80	635.85	273.39	635.50
274.24	635.03	275.00	634.55	275.08	634.40
275.16	634.26	275.30	634.00	275.39	633.85
275.44	633.75	275.52	633.60	275.71	633.26
275.97	632.80	276.65	631.57	277.51	630.00
277.71	629.64	279.87	625.74	280.00	625.50
294.00	625.74	296.01	629.64	296.19	630.00
297.00	631.57	301.07	632.80	302.59	633.26
303.72	633.60	304.21	633.75	304.54	633.85
305.04	634.00	305.90	634.26	306.36	634.40
306.86	634.55	308.35	635.00	310.00	635.50
315.56	635.00	320.56	634.55	322.22	634.40
323.78	634.26	326.67	634.00	328.33	633.85
329.44	633.75	331.11	633.60	334.89	633.26
340.00	632.80	348.63	633.26	355.00	633.60
357.81	633.75	359.69	633.85	362.50	634.00
367.38	634.26	370.00	634.40	377.00	634.26
390.00	634.00	390.19	633.85	390.31	633.75
390.50	633.60	390.93	633.26	391.50	632.80
393.04	631.57	395.00	630.00	414.00	629.64
414.40	630.00	416.16	631.57	417.54	632.80
418.05	633.26	418.43	633.60	418.60	633.75
418.71	633.85	418.88	634.00	419.17	634.26
419.33	634.40	419.50	634.55	420.00	635.00
429.00	634.55	432.00	634.40	434.80	634.26
440.00	634.00	443.00	633.85	445.00	633.75
454.49	633.60	476.00	633.26	493.00	633.60
500.50	633.75	505.50	633.85	513.00	634.00
526.00	634.26	527.58	634.00	528.48	633.85
529.09	633.75	530.00	633.60	575.00	633.75
605.00	633.85	610.25	634.00	619.35	634.26
624.25	634.40	629.50	634.55	645.25	635.00
662.75	635.50	675.00	635.85	681.11	637.50
687.59	639.25	699.63	642.50	700.00	642.60

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION 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

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
1983.25	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	983.08	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

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
633.60	282.00	256.29	130.00
633.26	316.34	224.63	78.69
632.80	300.71	197.29	61.38
631.57	187.80	139.10	51.91
630.00	75.62	75.08	43.48
629.64	50.45	64.93	25.12
625.74	0.29	1.70	14.28
625.50	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 9600 CROSS SECTION D

DESIRED Q	AVER SLOPE	MANNINGS N
4826.00	0.0023	0.075

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	651.62	0.00	651.60	55.70	647.20
76.58	645.55	80.38	645.25	100.00	643.70
160.00	642.50	200.00	640.50	350.00	640.50
351.27	640.47	358.44	640.30	395.60	639.42
426.00	638.70	430.22	638.60	436.56	638.45
445.00	638.25	515.00	638.45	516.98	638.25
521.63	637.78	523.41	637.60	524.00	637.54
524.06	637.60	524.25	637.78	524.73	638.25
524.93	638.45	525.09	638.60	525.19	638.70
525.92	639.42	526.83	640.30	527.00	640.47
527.42	640.30	529.62	639.42	531.41	638.70
531.66	638.60	532.04	638.45	532.53	638.25
533.71	637.78	534.16	637.60	534.30	637.54
536.00	636.86	537.48	637.54	537.61	637.60
538.00	637.78	539.02	638.25	539.46	638.45
539.78	638.60	540.00	638.70	540.10	638.60
540.24	638.45	540.44	638.25	540.90	637.78
541.07	637.60	541.13	637.54	541.79	636.86
548.00	630.48	561.35	629.70	567.00	629.37
580.00	629.70	581.75	630.48	596.09	636.86
597.62	637.54	597.75	637.60	598.16	637.78

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	637.79	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	MANNINGS N	ELEVATION FT
4826.00	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	57200.18	12920.47	1300.45

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
651.60	57019.81	12694.63	1360.10
647.20	24710.73	7491.48	1172.42
645.55	16419.79	5653.93	1071.07
645.25	15425.76	5342.54	1020.92
643.70	9373.55	3834.65	940.70
642.50	5941.28	2779.45	833.61
640.50	2019.95	1245.73	565.64
640.47	1980.73	1229.03	563.20
640.30	1767.31	1135.84	548.68
639.42	1221.57	751.43	339.89
638.70	790.37	533.99	278.03
638.60	741.68	507.31	269.06
638.45	676.77	469.07	253.76
638.25	788.01	428.80	161.37
637.78	695.47	363.33	128.62
637.60	1005.46	346.76	65.84
637.54	1000.44	343.15	64.63
636.86	875.08	304.40	58.55
630.48	17.63	23.51	33.96
629.70	0.89	3.08	18.66
629.37	0.00	0.00	0.00

TOWN CREEK FLOODWAY

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

TOWN CREEK STA 11150 CROSS SECTION E

DESIGNED Q		AVER SLOPE		MANNINGS N	
4765.00		0.0032		0.075	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	650.58	0.00	650.50	12.31	646.50
20.00	644.00	27.52	641.00	42.00	635.22
58.00	634.68	75.00	634.00	75.05	634.68
75.90	635.22	85.00	641.00	97.00	644.00
101.20	641.00	109.29	635.22	110.05	634.68
110.09	634.65	111.00	634.00	112.51	634.65
112.58	634.68	113.83	635.22	127.24	641.00
134.20	644.00	134.20	644.00	140.00	646.50



X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
147.84	650.50	148.00	650.58	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS 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

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	3980.21	968.19	137.78
644.00	2295.49	665.83	123.38
641.00	1058.99	369.24	90.18
638.22	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

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 38950 CROSS SECTION N

DESIGD Q		AVER SLOPE		MANNINGS N	
2808.00		0.0165		0.082	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	728.70	25.16	727.92	88.71	725.95
100.00	725.60	140.00	724.90	161.46	721.90
208.00	719.98	278.27	717.95	280.00	717.90
298.00	715.92	300.00	715.70	361.00	714.48
374.00	714.22	389.00	713.92	400.00	713.70
405.08	713.92	412.00	714.22	418.00	714.48
418.28	714.22	418.60	713.92	418.84	713.70
419.48	713.10	419.59	713.00	421.11	711.58
424.58	708.34	425.00	707.95	444.00	708.34
448.00	711.58	450.15	713.00	450.30	713.10
451.21	713.70	451.55	713.92	452.00	714.22
464.86	713.92	474.29	713.70	500.00	713.10
600.00	713.00	612.17	713.10	685.22	713.70
712.00	713.92	718.00	714.22	723.20	714.48
747.60	715.70	752.00	715.92	813.45	717.90
815.00	717.95	843.27	719.90	870.00	721.90
940.37	724.90	956.79	725.60	965.00	725.95
982.00	727.92	982.00	728.70	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2808.00	0.016	0.082	715.20

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
718.58	1.00	418.00	444.00

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

*e 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 = 309.36 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	74904.38	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

X X

TOWN CREEK STA <sup>38150</sup> ~~38550~~ CROSS SECTION 0

DESTRED Q		AVER SLOPE		MANNINGS N	
2808.00		0.0165		0.082	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	731.90	28.65	729.99	90.00	725.90
124.73	721.98	125.00	721.95	163.56	719.90
163.56	719.90	201.00	717.91	250.00	717.20
252.65	715.90	252.65	715.90	253.00	715.73
260.00	715.90	277.00	715.73	300.00	715.50
398.00	715.18	398.11	714.50	398.13	714.42
398.14	714.32	398.21	713.90	398.26	713.64
398.31	713.35	398.48	712.30	398.55	711.90
398.60	711.56	398.63	711.39	399.00	709.19
409.00	708.69	415.00	708.65	415.06	708.69
415.79	709.19	419.00	711.39	419.19	711.56
419.56	711.90	420.00	712.30	421.04	713.35
421.33	713.64	421.58	713.90	422.00	714.32
466.47	713.90	494.00	713.64	495.00	713.35
498.62	712.30	500.00	711.90	501.38	712.30
505.00	713.35	507.64	713.64	510.00	713.90
512.89	713.64	516.11	713.35	527.78	712.30
532.22	711.90	536.00	711.56	540.28	711.90
545.31	712.30	558.53	713.35	562.16	713.64
565.45	713.90	570.74	714.32	572.00	714.42
600.00	714.50	624.29	715.18	635.71	715.50
643.93	715.73	650.00	715.90	672.75	717.20
685.18	717.91	720.00	719.90	820.00	719.90
936.30	721.95	930.00	721.98	1031.47	725.90
1129.00	729.99	1129.00	731.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2808.00	0.016	0.082	716.17

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
719.92	1.00	398.00	422.00

P

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	821.71
721.95	27212.42	4055.08	819.74
719.90	16107.89	2550.65	564.81
717.91	7409.54	1515.25	492.44
717.20	5438.59	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	0.92	0.12	6.07
708.65	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 40800 CROSS SECTION P

DESIRED Q		AVER SLOPE		MANNINGS N	
2805.00		0.0041		0.082	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	731.95	0.00	731.90	104.20	727.90
155.00	725.95	156.67	725.90	200.00	724.60
256.25	721.90	275.00	721.00	300.00	719.80
323.75	717.90	324.13	717.87	330.00	717.40
347.00	717.87	347.28	717.40	347.34	717.30
347.43	717.15	347.43	717.15	347.71	716.70
347.92	716.34	350.00	712.90	355.00	712.70
358.00	712.58	360.00	712.70	360.22	712.90
364.09	716.34	364.49	716.70	365.00	717.15
400.00	716.70	465.00	717.15	470.00	716.70
474.00	716.34	483.75	716.70	495.94	717.15
495.94	717.15	500.00	717.30	516.67	717.40
595.00	717.87	600.00	717.90	660.68	719.80
699.00	721.00	750.00	721.90	770.25	724.60
780.00	725.90	780.50	725.95	800.00	727.90
814.81	731.90	815.00	731.95	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2805.00	0.004	0.082	720.66

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
722.39	1.00	330.00	365.00

1.4-1  
 MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION  
 CONVEYANCE BY ( 0.00 ) SQ. FT.

4358

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

X X

TOWN CREEK STA 41900 CROSS SECTION Q

DESIRED Q                 AVER SLOPE                 MANNINGS N  
 2784.00                   0.0024                   0.082

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	733.90	40.00	731.90	120.00	727.90
166.67	724.40	194.67	722.30	200.00	721.90
221.00	721.41	292.00	720.62	292.60	720.49
293.49	720.30	295.35	719.90	300.00	718.90
309.00	718.59	323.00	715.23	326.83	718.59
327.19	718.90	328.33	719.90	328.78	720.30
329.00	720.49	351.86	720.30	400.00	719.90
500.00	720.30	509.50	720.49	516.00	720.62
555.50	721.41	580.00	721.90	600.00	722.30
640.00	724.40	800.00	727.90	860.00	731.90
870.00	733.90	0.00	0.00	0.00	0.00

COMPUTED Q     AVER SLOPE     MANNINGS N     ELEVATION  
 CFS   FT  
 2784.00         0.002             0.082             723.88

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
724.35	1.00	300.00	329.00

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

117.5

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1628.69	0.00	213.73	528.24

C 323

ENCROACHMENT DISTANCE FROM LEFT BANK = 86.27 FEET  
 ENCROACHMENT DISTANCE FROM RIGHT BANK = 199.24 FEET



CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
733.90	33620.13	8360.65	873.40
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	29.95	19.49
715.23	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 42350 CROSS SECTION R

DESIRED Q		AVER. SLOPE		MANNINGS N	
2774.00		0.0073		0.082	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	737.90	0.00	733.90	12.00	731.92
70.00	731.90	200.00	728.90	211.00	727.91
217.89	727.89	242.00	727.82	293.08	725.90
309.05	725.30	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
651.61	733.90	660.00	737.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2774.00	0.007	0.032	723.32

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.

*C 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	

*512*

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	74442.66	5877.86	793.23
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	311.18
725.90	7295.35	1988.41	541.63

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
725.30	6292.62	1698.05	455.65
723.35	2444.14	903.40	388.61
722.37	1186.29	558.20	344.90
721.85	735.03	397.42	302.46
721.82	715.45	388.84	298.24
721.40	437.73	276.39	265.47
720.90	306.76	178.71	152.12
720.60	753.04	170.64	35.24
712.40	3.71	5.30	17.29
712.13	0.45	1.71	12.51
711.92	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 42550 CROSS SECTION S

DESIRED Q	AVER SLOPE	MANNINGS N
2774.00	0.0073	0.082

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	737.90	80.00	735.90	140.00	733.90
190.00	731.90	239.75	729.91	276.75	728.35
302.50	727.40	350.00	725.50	400.00	725.10
529.06	722.40	542.92	722.11	552.00	721.92
552.00	721.91	552.00	721.84	552.00	720.40
552.00	718.22	561.00	717.91	561.74	718.22
566.93	720.40	570.36	721.84	570.52	721.91
570.55	721.92	571.00	722.11	590.00	721.92
591.00	721.91	591.42	721.84	600.00	720.40
604.00	721.84	616.00	721.91	617.71	721.92
650.29	722.11	700.00	722.40	732.40	725.10
737.20	725.50	760.00	727.40	775.00	728.35
951.00	729.91	1020.00	731.90	1050.00	733.90
1140.00	735.90	1150.00	737.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2774.00	0.007	0.082	725.50

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	51131.89	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

*E 561*

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 43100 CROSS SECTION T

DESTRED Q                      AVER SLOPE                      MANNINGS N  
 2771.00                                      0.0027                                      0.082

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	737.90	210.00	727.90	244.10	725.90
277.00	723.97	284.20	723.92	287.07	723.90
287.07	723.90	287.07	723.90	336.00	723.56
370.00	723.90	370.00	723.90	370.00	723.90
372.00	723.92	480.00	723.90	493.60	723.56
496.00	723.50	500.00	723.40	501.96	719.49
502.00	719.42	519.00	719.49	520.00	723.40
536.00	723.50	545.60	723.56	600.00	723.90
634.00	723.56	640.00	723.50	643.00	723.56
660.00	723.90	660.40	723.92	661.40	723.97
700.00	725.90	716.67	727.90	800.00	737.90

COMPUTED Q    AVER SLOPE    MANNINGS N    ELEVATION  
 CFS                      FT  
 2771.00            0.002            0.082            726.78

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
729.00	1.00	500.00	520.00

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

*502*

*1.150*

UNMODIFIED AREA OF CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2508.05	0.00	278.41	668.08
ENCROACHMENT DISTANCE FROM LEFT BANK =		221.59 FEET	
ENCROACHMENT DISTANCE FROM RIGHT BANK =		148.08 FEET	

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
737.90	38172.47	8466.30	806.63
727.90	4405.32	1932.97	512.46
725.90	1497.96	970.40	461.52
723.97	82.67	159.50	389.91
723.92	67.86	140.49	381.71
723.90	79.41	134.10	268.43
723.56	83.40	79.03	66.49
723.50	100.64	76.00	45.49
723.40	138.46	73.00	25.49
719.49	0.06	0.60	17.08
719.42	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 45200 CROSS SECTION U

DESIRED Q		AVER SLOPE		MANNINGS N	
2734.00		0.0013		0.080	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	735.50	90.42	730.65	132.00	728.42
185.00	727.25	221.82	726.80	228.36	726.72
231.64	726.68	273.36	726.17	275.00	726.15
277.75	726.17	348.00	726.68	367.00	726.17
436.55	726.68	442.00	726.72	442.03	726.68
442.38	726.17	442.39	726.15	444.30	723.37
444.55	723.00	445.00	722.35	448.00	723.00
457.00	723.37	459.43	726.15	459.45	726.17
459.90	726.68	459.93	726.72	460.00	726.80
465.26	727.25	478.94	728.42	505.00	730.65
550.00	735.50	0.00	0.00	0.00	0.00

COMPUTED Q	AVER SLOPE	MANNINGS N	ELEVATION
CFS			FT
2734.00	0.001	0.080	730.93

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
731.30	1.00	442.00	460.00

*2445*

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

*1.6-2-1*

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	3807.73	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
726.80	63.58	135.99	242.13
726.72	50.55	117.20	235.48
726.66	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

X X

TOWN CREEK STA 48100 CROSS SECTION V

DESIRED Q                  AVER SLOPE                  MANNINGS N  
2716.00                      0.0018                      0.080

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	746.00	103.00	742.00	123.32	737.85
123.56	737.80	133.11	735.85	136.00	735.26
165.51	733.55	166.37	733.50	166.37	733.50
171.55	733.20	175.00	733.00	290.63	732.50
290.63	732.50	360.00	732.20	374.44	732.50
374.44	732.50	398.52	733.00	398.52	733.00
408.15	733.20	422.59	733.50	422.59	733.50
425.00.	733.55	425.19	733.50	425.19	733.50
426.30	733.20	427.04	733.00	427.04	733.00
428.89	732.50	428.89	732.50	430.00	732.20
432.00	728.32	436.13	728.00	440.00	727.70
447.00	728.00	447.17	728.32	449.29	732.20
449.29	732.20	449.45	732.50	449.45	732.50
449.73	733.00	449.73	733.00	449.84	733.20
450.00	733.50	456.00	733.20	460.00	733.00
486.00	733.20	530.00	733.50	539.00	733.20
545.00	733.00	545.00	733.00	560.00	732.50
660.00	732.50	688.57	733.00	688.57	733.00
700.00	733.20	708.49	733.50	708.49	733.50
709.91	733.55	758.30	735.26	775.00	735.85
823.75	737.80	825.00	737.85	840.00	737.80
840.64	737.85	893.78	742.00	945.00	746.00

COMPUTED Q    AVER SLOPE    MANNINGS N    ELEVATION  
CFS                      FT  
2716.00                  0.001                  0.080                  735.65

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
736.00	1.00	430.00	450.00



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

1442

UNMODIFIED AREA OF CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1967.13	0.00	227.48	669.52
ENCROACHMENT DISTANCE FROM LEFT BANK = 202.52 FEET			
ENCROACHMENT DISTANCE FROM RIGHT BANK = 219.52 FEET			

440

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	14.89
727.70	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 4990 CROSS SECTION W

DESTRED Q	AVER SLOPE	MANNINGS N
2788.00	0.0002	0.080

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	620.62	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
741.26	1.00	415.00	465.00

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
2359.43	0.00	194.71	602.50
ENCROACHMENT DISTANCE FROM LEFT BANK =		220.29 FEET	
ENCROACHMENT DISTANCE FROM RIGHT BANK =		137.50 FEET	

*435*

*1512*

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
746.00	6267.00	5186.08	662.53
743.25	3493.03	3493.11	592.82
739.60	848.18	1448.95	549.04
739.35	740.78	1316.67	529.48
737.55	236.37	553.93	337.24
737.45	222.44	522.05	318.54
737.10	180.32	424.05	259.53
737.00	187.86	401.33	212.67
736.50	224.28	327.88	98.36
736.45	236.28	323.39	87.88
735.00	148.82	220.82	67.73
731.44	18.23	48.89	36.44
731.00	16.43	36.92	21.11
727.25	0.00	0.00	0.00

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 51350 CROSS SECTION X

DESIRED Q		AVER SLOPE		MANNINGS N	
2772.00		0.0033		0.080	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	751.00	138.00	743.68	172.47	742.55
254.84	739.85	303.65	738.25	320.42	737.70
321.95	737.65	325.00	737.55	337.86	737.65
344.29	737.70	415.00	738.25	422.86	737.70
423.57	737.65	425.00	737.55	488.33	737.65
520.00	737.70	520.02	737.65	520.05	737.55
520.05	737.55	520.07	737.50	520.25	737.00
520.42	736.50	521.69	732.88	522.00	732.00
538.00	732.88	540.00	736.50	546.00	737.00
591.38	737.50	595.92	737.55	595.92	737.55
605.00	737.65	675.00	737.55	675.00	737.55
710.00	737.50	710.32	737.55	710.32	737.55
710.96	737.65	711.28	737.70	714.79	738.25
725.00	739.85	775.00	742.55	788.37	743.68
875.00	751.00	0.00	0.00	0.00	0.00

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

*Q 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
742.56	6823.56	2498.15	609.12
739.85	1895.18	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

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 53400 CROSS SECTION Y

DESired Q		AVER SLOPE		MANNINGS N	
2603.00		0.0002		0.080	

  

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	755.00	54.20	751.60	55.00	751.55
100.00	747.70	160.00	747.70	211.28	744.25
215.00	744.00	270.00	743.80	270.10	743.70
270.33	743.45	271.24	742.50	274.02	739.58
275.00	738.55	288.00	739.55	293.28	742.50
295.00	743.45	304.38	743.70	308.13	743.80
315.63	744.00	315.63	744.00	325.00	744.25
360.00	744.00	362.67	743.80	364.00	743.70
367.33	743.45	380.00	742.50	419.58	743.45
430.00	743.70	430.63	743.80	431.90	744.00
431.90	744.00	433.48	744.25	455.32	747.70
455.32	747.70	479.68	751.55	480.00	751.60
520.00	755.00	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2603.00	0.000	0.080	751.68

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
750.11	1.00	270.00	295.00

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

*0.275*

*V=1.3*

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2017.82	0.00	131.05	421.99

ENCROACHMENT DISTANCE FROM LEFT BANK = 138.95 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 126.99 FEET



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	745.30	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

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





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	MANNINGS 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
752.70	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

e 734

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
763.55	48428.04	10103.95	986.29
763.50	48048.89	10055.21	985.99
761.55	38755.07	8293.20	841.39
757.18	15864.67	4755.87	799.56
757.15	15748.33	4732.20	798.41
754.62	7360.43	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	410.41
751.57	2703.14	1246.35	399.69
751.52	2859.29	1227.84	353.91
751.44	2842.18	1200.70	337.70
750.55	1992.42	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

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 60240 CROSS SECTION AB

DESIRED Q		AVER SLOPE		MANNINGS N	
2600.00		0.0027		0.085	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	779.00	90.00	775.50	260.00	771.20
577.72	766.95	645.00	766.05	716.00	765.56
784.10	765.09	1000.00	763.60	1289.00	765.09
1289.17	763.60	1289.72	758.65	1290.00	756.20
1310.00	756.20	1315.00	758.65	1315.72	763.60
1315.93	765.09	1316.00	765.56	1350.90	766.05

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

C1300

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2600.00	0.002	0.085	766.75

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
763.35	1.00	1290.00	1315.00

*See  
added  
sheets*

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	2905.80	1880.08	851.81
766.05	1506.85	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

TOWN CREEK FLOODWAY

X X

TOWN CREEK STA 63200 CROSS SECTION AC

DESIRED Q              AVER SLOPE              MANNINGS N  
 2400.00              0.0024              0.085

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1000.00	783.40	1022.76	781.42	1064.37	777.80
1100.00	774.70	1200.00	769.30	1209.00	768.29
1209.36	766.60	1209.44	766.24	1209.45	766.20
1209.87	764.21	1210.00	763.60	1216.00	763.56
1216.31	763.60	1221.00	764.21	1223.94	766.20
1224.00	766.24	1300.00	766.20	1310.00	766.24
1400.00	766.60	1415.09	768.29	1424.11	769.30
1472.32	774.70	1500.00	777.80	1542.00	781.42
1542.00	783.40	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2400.00	0.002	0.085	770.62

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
771.30	1.00	1209.00	1224.00

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
1141.25	0.00	1169.44	1377.23

ENCROACHMENT DISTANCE FROM LEFT BANK = 39.56 FEET  
 ENCROACHMENT DISTANCE FROM RIGHT BANK = 153.23 FEET

12/16 = 2

2/1/72

## CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
783.40	27651.53	6279.78	549.80
781.42	21017.17	5229.15	524.98
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	3.6	30.94	17.25
764.21	2.84	5.44	11.67
763.60	0.01	0.13	6.31
763.56	0.00	0.00	0.00

TOWN CREEK FLOODWAY STATION 60150

X X

TOWN CREEK STATION 60150 SECTION AB

DESIRED Q                      AVER SLOPE                      MANNINGS N  
 2600.00                      0.0025                      0.085

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	845.00	0.00	766.00	255.00	762.25
412.00	761.72	483.46	760.00	490.93	759.82
504.23	759.50	525.00	759.00	650.00	759.50
665.00	759.00	666.16	758.83	680.00	756.80
683.00	755.53	690.00	755.50	690.03	755.53
691.17	756.80	693.00	758.83	698.38	759.00
698.38	759.00	714.19	759.50	724.31	759.62
730.00	760.00	832.00	759.82	831.86	760.00
830.53	761.72	830.12	762.25	827.21	766.00
766.00	845.00	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2600.00	0.002	0.085	762.73

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
760.90	1.00	665.00	693.00

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
569.57	0.00	557.73	762.82

ENCROACHMENT DISTANCE FROM LEFT BANK = 107.27 FEET  
 ENCROACHMENT DISTANCE FROM RIGHT BANK = 69.82 FEET

*E 676*

*V=46*

## CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
845.00	963607.10	66723.59	1020.75
766.00	9203.80	3791.73	841.81
762.25	1640.53	1162.37	582.04
761.72	1319.86	899.05	424.36
760.00	165.28	239.49	350.71
759.82	142.95	187.13	235.31
759.50	69.28	116.20	211.89
759.00	66.54	55.36	35.28
758.83	64.91	50.24	28.73
756.80	10.18	11.66	12.01
755.53	0.01	0.11	7.04
755.50	0.00	0.00	0.00

// XEQ STOPT

TOWN CREEK FLOODWAY FOR E. SPENCER

X 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
82.16	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 CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
4764.00	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	363.00	646.05	386.00	646.36
386.49	647.05	388.88	650.42	388.90	650.45
389.68	651.55	389.68	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. CONVFYANCE 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

*e* 365

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
664.55	23515.57	5936.72	525.21
664.50	23355.29	5910.98	524.89
656.55	4726.36	2124.27	446.41
655.05	2675.80	1482.35	426.28
653.50	1012.54	799.71	380.57
653.22	954.88	761.03	377.65
653.00	798.60	680.24	372.95
652.10	309.78	368.90	334.34
652.00	267.49	336.38	330.85
651.55	305.59	193.58	68.07
650.45	180.59	131.62	57.12
650.42	193.99	130.19	49.92
647.05	12.29	18.26	23.06
646.36	0.74	3.29	21.38
646.05	0.00	0.00	0.00

TOWN CREEK FLOODWAY FOR E. SPENCER

X X

SECTION I

DESIRED Q		AVER SLOPE		MANNINGS N	
4510.00		0.0131		0.073	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	676.00	23.96	672.00	26.00	671.66
83.64	668.48	115.00	666.75	151.67	665.65
188.33	664.55	190.00	664.50	205.00	664.55
205.43	664.50	225.00	662.25	290.00	661.50
291.32	661.25	292.63	661.00	294.37	660.67
300.00	659.60	300.05	659.57	300.17	659.50
306.90	655.53	307.00	655.47	333.00	655.53
336.09	659.50	336.14	659.57	336.17	659.60
337.00	660.67	341.55	661.00	345.00	661.25
345.71	661.00	346.66	660.67	349.71	659.60
349.80	659.57	350.00	659.50	387.00	659.57
387.13	659.60	391.62	660.67	393.00	661.00
399.56	661.25	406.12	661.50	425.80	662.25
484.83	664.50	486.14	664.55	515.00	665.65

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
516.17	666.75	518.00	668.48	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

*C 307*

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
1960.64	0.00	180.93	453.44

ENCROACHMENT DISTANCE FROM LEFT BANK = 119.07 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 108.44 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
676.00	74196.86	6891.32	696.36
672.00	37182.70	4309.25	606.95
671.66	34795.68	4107.00	594.54
668.48	18348.83	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



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	24754.66	9467.68	950.20

498  
C



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	614.68	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
710.89	668.39	722.00	668.89	788.09	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

*563*



## 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	38808.94	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	263.82	297.11	150.68
667.39	263.62	292.89	145.54
667.30	312.43	282.35	102.92
666.90	300.26	248.62	79.48
662.95	36.83	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

TOWN CREEK FLOODWAY FOR E. SPENCER

XX

SECTION F

DESTRED 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
82.16	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
4764.00	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	0.00	57.00	78.00

0" encroachment

6/66

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



CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
674.52	56670.90	4837.24	458.62
674.50	56500.05	4828.21	458.55
664.57	5475.83	1027.50	317.53
663.49	3065.15	702.15	292.68
662.85	2339.10	538.46	226.10
662.58	2001.72	479.95	214.23
662.50	1929.99	463.37	207.24
662.00	1546.98	371.62	166.35
661.30	1163.21	273.94	119.03
659.24	619.27	118.52	37.72
652.46	0.00	0.00	0.00

*Handwritten notes:*  
 1. G.H.I. 5K  
 2. 5.5 ft  
 3. 4.5 ft

TOWN CREEK FLOODWAY

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

TOWN CREEK STA 51350 CROSS SECTION X

DESIRED Q		AVER SLOPE		MANNINGS N	
2772.00		0.0033		0.080	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	751.00	138.00	743.68	172.47	742.55
254.84	739.85	303.65	738.25	320.42	737.70
321.95	737.65	325.00	737.55	337.86	737.65
344.29	737.70	415.00	738.25	422.86	737.70
423.57	737.65	425.00	737.55	488.33	737.65
520.00	737.70	520.02	737.65	520.05	737.55
520.05	737.55	520.07	737.50	520.25	737.00
520.42	736.50	521.69	732.88	522.00	732.00
538.00	732.88	540.00	736.50	546.00	737.00
591.38	737.50	595.92	737.55	595.92	737.55
605.00	737.65	675.00	737.55	675.00	737.55
710.00	737.50	710.32	737.55	710.32	737.55
710.96	737.65	711.28	737.70	714.79	738.25
725.00	739.85	775.00	742.55	788.37	743.68
875.00	751.00	0.00	0.00	0.00	0.00

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
742.50	1.00	520.00	546.00

RIGHT ENCROACHMENT STATION IN CHANNEL

STATION IS SET AT BANK



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	162.38	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
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	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	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
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	751.52	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 D CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2511.00	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	625.00	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

134

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	48428.04	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	7360.43	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	410.41
751.57	2703.14	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	1992.42	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

TOWN CREEK STA. 37820

DESIRED Q	AVER SLOPE	MANNINGS N
2824.00	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
771.88	710.35	800.00	710.20	800.60	710.35
801.71	710.63	305.17	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	826.08	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
862.40	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	895.21	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
2824.00	0.000	0.083	716.04

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

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

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

12  
 UNMODIFIED AREA OF CONVEYANCE 2274.65  
 PERCENT DIFF OF MODIFICATION 0.00  
 X-VALUE OF L ENCROACH STA 542.86  
 X-VALUE OF R ENCROACH STA 908.66  
 ENCROACHMENT DISTANCE FROM LEFT BANK = 283.14 FEET  
 ENCROACHMENT DISTANCE FROM RIGHT BANK = 45.66 FEET

845 E

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	888.64	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
704.55	0.00	0.00	0.00

XX

TOWN CREEK STA. 23085

DESIRED Q                      AVER SLOPE                      MANNINGS N  
4428.00                      0.0078                      0.065

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
30.00	701.30	80.00	697.30	84.92	695.38
85.00	695.35	108.05	691.30	137.36	686.15
143.33	685.10	147.89	684.30	155.00	683.05
200.00	681.80	231.79	680.63	240.75	680.30
247.00	680.07	249.00	675.89	249.62	675.80
260.00	674.30	270.00	675.80	270.06	675.89
272.65	680.07	272.30	680.30	273.00	680.63
290.00	680.30	291.65	680.63	297.50	681.80
303.75	683.05	310.00	684.30	400.00	685.10
435.00	686.15	540.00	691.30	587.65	695.35
588.00	695.38	600.00	697.30	680.00	701.30

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
4428.00	0.007	0.065	685.99

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
686.70	1.00	247.00	273.00

*260 ft*

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
1202.99	0.00	178.39	381.35

ENCROACHMENT DISTANCE FROM LEFT BANK = 68.61 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 108.35 FEET

## CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
701.30	87073.63	8140.85	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	382.53	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
674.30	0.00	0.00	0.00