
 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 12 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.005000	0.0	0.0	0.	241.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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	5.000	550.000	1120.000	1520.000	2900.000	1520.000	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	2300.000	18.000	1668.000	1680.000	2300.000	2300.000	2300.000	0.0	0.0	0.0
GR	255.400	1000.000	251.300	1100.000	248.900	1200.000	246.000	1300.000	242.800	1400.000
GR	239.900	1500.000	238.900	1600.000	238.700	1668.000	237.100	1670.000	236.600	1674.000
GR	237.000	1678.000	238.800	1600.000	238.500	1700.000	238.200	1720.000	236.800	1723.000
GR	238.300	1726.000	238.600	1750.000	253.500	1782.000	0.0	0.0	0.0	0.0
X1	7450.000	15.000	366.000	384.000	5150.000	5150.000	5150.000	0.0	-0.900	0.0
GR	281.400	0.0	273.500	100.000	269.700	200.000	267.100	300.000	265.800	366.000
GR	262.600	371.000	262.200	374.000	262.600	378.000	266.000	384.000	266.300	400.000
GR	275.300	500.000	276.400	600.000	275.700	700.000	277.300	800.000	281.400	878.000
X1	7500.000	15.000	364.000	384.000	50.000	50.000	50.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	281.400	0.0	275.500	100.000	271.500	200.000	267.100	300.000	263.500	364.000
GR	261.500	364.100	261.500	374.000	261.500	383.900	263.500	384.000	266.300	400.000
GR	275.300	500.000	276.400	600.000	275.600	700.000	277.100	800.000	281.400	878.000
SB	0.900	1.500	3.000	0.0	20.000	0.500	120.000	0.0	262.000	261.500
X1	7550.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
X2	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X5	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	9.000	200.000	271.500	0.0	300.000	270.200	267.100	364.000	270.400	264.000
BT	364.100	270.400	268.500	374.000	270.400	268.500	383.900	270.400	268.500	384.000
BT	270.400	264.000	400.000	270.600	266.300	500.000	272.600	0.0	0.0	0.0
X1	7600.000	15.000	366.000	384.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	281.400	0.0	273.500	100.000	269.700	200.000	267.100	300.000	265.800	366.000
GR	262.600	371.000	262.200	374.000	262.600	378.000	266.000	384.000	266.300	400.000
GR	275.300	500.000	276.400	600.000	275.700	700.000	277.300	800.000	281.400	878.000
QT	5.000	325.000	675.000	950.000	1900.000	950.000	0.0	0.0	0.0	0.0
X1	11000.000	11.000	246.000	260.000	3400.000	3400.000	3400.000	0.0	0.0	0.0
GR	299.700	0.0	293.000	100.000	288.300	200.000	284.500	246.000	282.200	250.000
GR	281.900	253.000	282.200	256.000	284.600	260.000	286.700	300.000	291.400	400.000

GR	300.200	500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
27	28	29	30	31	32	33	34	35	36	37	38
39	40	41	42	43	44	45	46	47	48	49	50
53	54	55	56	57	58	59	60	61	62	63	64
67	68	69	70	71	72	73	74	75	76	77	78
CCHV= 0.100 CEHV= 0.300											
SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	ULOSS	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	ICONI	CORAR	TOPWID	ENUST		
2300.00	3.53	240.13	0.0	241.00	240.20	0.07	0.0	0.0	238.70		
550.	210.	119.	220.	165.	35.	124.	0.	0.	238.80		
0.0	1.27	3.37	1.78	0.085	0.060	0.085	0.0	236.60	1491.93		
0.005015	2300.	2300.	2300.	0	0	6	0.0	261.37	1753.29		
7450.00	5.59	266.89	0.0	0.0	267.10	0.21	26.86	0.04	264.90		
550.	145.	344.	60.	98.	77.	39.	32.	24.	265.10		
0.42	1.48	4.49	1.56	0.085	0.060	0.085	0.060	261.30	273.26		
0.005428	5150.	5150.	5150.	6	0	1	0.0	143.35	416.61		
7500.00	5.66	267.16	0.0	0.0	267.27	0.11	0.16	0.01	263.50		
550.	142.	358.	50.	119.	113.	40.	32.	24.	263.50		
0.43	1.19	3.17	1.26	0.085	0.060	0.085	0.060	261.50	298.73		
0.002052	50.	50.	50.	0	0	1	0.0	110.79	409.51		
SPECIAL BRIDGE											
SB	XK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD	
0.90	1.50	3.00	0.0	20.00	0.50	120.00	0.0	262.00	261.50		
NORMAL BRIDGE, NRD= 9 MIN ELTRD= 270.20 MAX ELLC= 268.50											
7550.00	5.64	267.14	0.0	1.00	267.50	0.36	0.15	0.08	263.50		
550.	5.	543.	2.	16.	112.	4.	32.	24.	263.50		
0.43	0.30	4.84	0.48	0.085	0.060	0.085	0.060	261.50	299.13		
0.004856	50.	50.	50.	2	0	1	-137.67	110.18	409.31		
7600.00	5.29	267.49	0.0	0.0	267.82	0.33	0.32	0.00	265.80		
550.	115.	384.	51.	71.	71.	29.	32.	24.	266.00		
0.44	1.62	5.40	1.75	0.085	0.060	0.085	0.060	262.20	285.29		
0.008700	50.	50.	50.	2	0	1	0.0	127.85	413.14		
SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	ULOSS	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	ICONI	CORAR	TOPWID	ENUST		
11000.00	5.16	287.06	0.0	0.0	287.19	0.13	19.35	0.02	284.50		
325.	46.	208.	71.	40.	60.	58.	45.	33.	284.60		
0.79	1.17	3.49	1.23	0.085	0.060	0.085	0.060	281.90	215.03		
0.003248	3400.	3400.	3400.	6	0	1	0.0	92.59	307.62		

SUMMARY PRINTOUT FOR MULTIPLE PROFILES													
10 YEAR FLOOD WATER SURF													
SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
2300.00	2300.00	0.0	0.0	236.60	550.00	240.13	77.66	240.20	261.37	0.0	0.0	3.37	
7450.00	5150.00	0.0	0.0	261.30	550.00	266.89	74.65	267.10	143.35	0.0	0.0	4.49	
7500.00	50.00	0.0	0.0	261.50	550.00	267.16	121.42	267.27	110.79	0.0	0.0	3.17	
7550.00	50.00	270.20	268.50	261.50	550.00	267.14	78.92	267.50	110.18	0.0	0.0	4.84	
7600.00	50.00	0.0	0.0	262.20	550.00	267.49	58.96	267.82	127.85	0.0	0.0	5.40	
11000.00	3400.00	0.0	0.0	281.90	325.00	287.06	57.02	287.19	92.59	0.0	0.0	3.49	
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					
2300.000	550.000	240.134	0.0	0.0	0.0	261.369	0.0	2300.000					
7450.000	550.000	266.895	0.0	26.760	0.0	143.348	0.0	5150.000					
7500.000	550.000	267.161	0.0	0.267	0.0	110.786	0.0	50.000					
7550.000	550.000	267.137	0.0	-0.024	0.0	110.180	0.0	50.000					
7600.000	550.000	267.488	0.0	0.351	0.0	127.848	0.0	50.000					
11000.000	325.000	287.058	0.0	19.570	0.0	92.590	0.0	3400.000					
DATA FOR LAST CROSS SECTION													
PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF								
1	0.0	0.0	0.0	32.937	0.0								

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 MODIFICATIONS 52,53,54,55,56,57,58

I1 TRIB. 12 BASIN 20
 I2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 I3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	ASTRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.005000	0.0	0.0	0.	243.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	JTRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	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
2300.00	4.29	240.89	0.0	243.00	240.98	0.09	0.0	0.0	238.70
1120.	542.	174.	403.	309.	45.	180.	0.	0.	238.80
0.0	1.76	3.92	2.24	0.085	0.060	0.085	0.0	236.60	1465.72
0.004995	2300.	2300.	2300.	0	0	4	0.0	289.20	1754.93
7450.00	6.66	267.96	0.0	0.0	268.19	0.23	27.17	0.04	264.90
1120.	446.	507.	167.	219.	96.	80.	55.	29.	265.10
0.41	2.04	5.28	2.08	0.085	0.060	0.085	0.060	261.30	252.14
0.005580	5150.	5150.	5150.	5	0	1	0.0	196.36	428.49
7500.00	6.71	268.21	0.0	0.0	268.40	0.19	0.21	0.00	263.50
1120.	388.	597.	136.	201.	134.	74.	55.	29.	263.50
0.41	1.93	4.44	1.84	0.085	0.060	0.085	0.060	261.50	274.50
0.003208	50.	50.	50.	1	0	1	0.0	146.85	421.36

SPECIAL BRIDGE

SB	XK	XKORE	COFO	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	3.00	0.0	20.00	0.50	120.00	0.0	262.00	261.50

3301 HV CHANGED MORE THAN HVINS

NORMAL BRIDGE, NR0= 9 MIN ELTRO= 270.20 MAX ELLC= 260.50

0.004995 2300. 2300. 2300. 0 0 4 0.0 289.20 1754.93

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T1 TRIB. 12 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.005000	0.0	0.0	0.	244.000	0.0

J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

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

2300.00	4.71	241.31	0.0	244.00	241.41	0.10	0.0	0.0	238.70
1520.	780.	208.	523.	397.	50.	212.	0.	0.	238.80
0.0	1.99	4.21	2.47	0.085	0.060	0.085	0.0	236.60	1451.28
0.004995	2300.	2300.	2300.	0	0	5	0.0	304.54	1755.83

7450.00	7.21	268.51	0.0	0.0	268.75	0.25	27.29	0.04	264.90
1520.	676.	599.	245.	298.	106.	106.	69.	31.	265.10
0.40	2.27	5.67	2.31	0.085	0.060	0.085	0.060	261.30	211.19
0.005633	5150.	5150.	5150.	5	0	1	0.0	223.35	434.55

7500.00	7.24	268.74	0.0	0.0	268.98	0.24	0.23	0.00	263.50
1520.	575.	742.	203.	251.	145.	95.	70.	31.	263.50
0.40	2.29	5.13	2.15	0.085	0.060	0.085	0.060	261.50	262.64
0.003863	50.	50.	50.	2	0	1	0.0	164.52	427.16

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	3.00	0.0	20.00	0.50	120.00	0.0	262.00	261.50

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 268.500 EGLC= 270.300 EGC= 272.046 WSEL= 270.953

3301 HV CHANGED MORE THAN HVINS

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T1 TRIB. 12 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.005000	0.0	0.0	0.	246.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IUC	ICONT	CORAR	TOPWID	ENDST

2300.00	5.90	242.50	0.0	246.00	242.65	0.15	0.0	0.0	238.70
2980.	1730.	317.	933.	679.	64.	304.	0.	0.	238.80
0.0	2.55	4.97	3.07	0.085	0.060	0.085	0.0	236.60	1410.25
0.004980	2300.	2300.	2300.	0	0	5	0.0	348.13	1758.38
7450.00	8.59	269.89	0.0	0.0	270.18	0.29	27.49	0.04	264.90
2980.	1592.	860.	528.	542.	131.	187.	113.	37.	265.10
0.36	2.94	6.58	2.83	0.085	0.060	0.085	0.060	261.30	171.21
0.005735	5150.	5150.	5150.	5	0	1	0.0	278.73	449.94
7500.00	8.60	270.10	0.0	0.0	270.49	0.38	0.28	0.03	263.50
2980.	1313.	1184.	483.	410.	172.	164.	114.	37.	263.50
0.36	3.20	6.89	2.95	0.085	0.060	0.085	0.060	261.50	231.70
0.005540	50.	50.	50.	2	0	1	0.0	210.58	442.28

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 269.27 ,NOT 270.10 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	3.00	0.0	20.00	0.50	120.00	0.0	262.00	261.50

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TW	LG	TOPWID	STENCL	STENCR	VCH	
A	2300.00	2300.00	0.0	0.0	236.60	550.00	240.13	77.66	240.20	261.37	0.0	0.0	3.37
	2300.00	2300.00	0.0	0.0	236.60	1120.00	240.89	158.47	240.98	289.20	0.0	0.0	3.92
	2300.00	2300.00	0.0	0.0	236.60	1520.00	241.31	215.06	241.41	304.54	0.0	0.0	4.21
	2300.00	2300.00	0.0	0.0	236.60	2980.00	242.50	422.27	242.65	348.13	0.0	0.0	4.97
B	7450.00	5150.00	0.0	0.0	261.30	550.00	266.89	74.65	267.10	143.35	0.0	0.0	4.49
	7450.00	5150.00	0.0	0.0	261.30	1120.00	267.96	149.94	268.19	196.36	0.0	0.0	5.28
	7450.00	5150.00	0.0	0.0	261.30	1520.00	268.51	202.52	268.75	223.35	0.0	0.0	5.67
	7450.00	5150.00	0.0	0.0	261.30	2980.00	269.89	393.52	270.18	278.73	0.0	0.0	6.58
	7500.00	50.00	0.0	0.0	261.50	550.00	267.16	121.42	267.27	110.79	0.0	0.0	3.17
	7500.00	50.00	0.0	0.0	261.50	1120.00	268.21	197.74	268.40	146.85	0.0	0.0	4.44
	7500.00	50.00	0.0	0.0	261.50	1520.00	268.74	244.56	268.98	164.52	0.0	0.0	5.13
	7500.00	50.00	0.0	0.0	261.50	2980.00	270.10	400.38	270.49	210.58	0.0	0.0	6.89
	7550.00	50.00	270.20	268.50	261.50	550.00	267.14	78.92	267.50	110.18	0.0	0.0	4.84
	7550.00	50.00	270.20	268.50	261.50	1120.00	267.80	94.77	269.00	132.59	0.0	0.0	8.84
	7550.00	50.00	270.20	268.50	261.50	1520.00	267.74	93.07	269.99	130.26	0.0	0.0	12.12
	7550.00	50.00	270.20	268.50	261.50	2980.00	272.26	144.38	273.26	285.22	0.0	0.0	10.08
C	7600.00	50.00	0.0	0.0	262.20	550.00	267.49	58.96	267.82	127.85	0.0	0.0	5.40
	7600.00	50.00	0.0	0.0	262.20	1120.00	269.27	187.65	269.42	216.23	0.0	0.0	4.43
	7600.00	50.00	0.0	0.0	262.20	1520.00	270.37	326.36	270.47	262.84	0.0	0.0	3.89
	7600.00	50.00	0.0	0.0	262.20	2980.00	273.44	983.26	273.50	377.48	0.0	0.0	3.24
D	11000.00	3400.00	0.0	0.0	281.90	325.00	287.06	57.02	287.19	92.59	0.0	0.0	3.49
	11000.00	3400.00	0.0	0.0	281.90	675.00	287.09	58.41	287.63	93.80	0.0	0.0	7.12
	11000.00	3400.00	0.0	0.0	281.90	950.00	287.33	67.83	288.13	101.54	0.0	0.0	8.93
	11000.00	3400.00	0.0	0.0	281.90	1900.00	288.38	124.55	289.45	137.67	0.0	0.0	11.20
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					
	2300.000	550.000	240.134	0.0	0.0	261.369	0.0	2300.000					
	2300.000	1120.000	240.894	0.760	0.0	289.202	-27.833	2300.000					
	2300.000	1520.000	241.313	0.419	0.0	304.543	-43.174	2300.000					
	2300.000	2980.000	242.503	1.190	0.0	348.130	-86.760	2300.000					
	7450.000	550.000	266.895	0.0	26.760	143.348	0.0	5150.000					
	7450.000	1120.000	267.960	1.066	27.066	196.358	-53.009	5150.000					
	7450.000	1520.000	268.506	0.546	27.193	223.352	-80.003	5150.000					
	7450.000	2980.000	269.891	1.385	27.388	278.729	-135.381	5150.000					
	7500.000	550.000	267.161	0.0	0.267	110.786	0.0	50.000					
	7500.000	1120.000	268.214	1.053	0.254	146.853	-36.066	50.000					
	7500.000	1520.000	268.744	0.529	0.238	164.518	-53.732	50.000					
	7500.000	2980.000	270.105	1.361	0.214	210.583	-99.796	50.000					
	7550.000	550.000	267.137	0.0	-0.024	110.180	0.0	50.000					
	7550.000	1120.000	267.800	0.663	-0.415	132.592	-22.412	50.000					
	7550.000	1520.000	267.735	-0.065	-1.009	130.262	-20.083	50.000					
	7550.000	2980.000	272.260	4.524	2.155	285.219	-175.039	50.000					

	7600.000	550.000	267.488	0.0	0.351	0.0	127.848	0.0	50.000
	7600.000	1120.000	269.267	1.778	1.467	0.0	216.229	-88.382	50.000
	7600.000	1520.000	270.368	1.102	2.633	0.0	262.841	-134.993	50.000
	7600.000	2980.000	273.436	3.068	1.176	0.0	377.476	-249.628	50.000
	11000.000	325.000	287.058	0.0	19.570	0.0	92.590	0.0	3400.000
1	11000.000	675.000	287.094	0.037	17.828	0.0	93.804	-1.214	3400.000
2	11000.000	950.000	287.326	0.231	16.958	0.0	101.537	-8.946	3400.000
3	11000.000	1900.000	288.385	1.059	14.949	0.0	137.665	-45.075	3400.000

DATA FOR LAST CROSS SECTION

	PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
4					
5					
6					
7					
8					
9	1	0.0	0.0	32.937	0.0
10	2	0.0	0.0	41.360	8.424
11	3	0.0	0.0	46.044	13.107
12	4	0.0	0.0	58.106	25.169
13					
14					
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57					

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 12 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	0.	4.	0.	0.	0.005000	0.0	0.0	0.	244.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	550.000	1120.000	1520.000	2980.000	1520.000	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	2300.000	18.000	1668.000	1680.000	2300.000	2300.000	2300.000	0.0	0.0	0.0
GR	255.400	1000.000	251.300	1100.000	248.900	1200.000	246.000	1300.000	242.800	1400.000
GR	239.900	1500.000	238.900	1600.000	238.700	1668.000	237.100	1670.000	236.600	1674.000
GR	237.000	1678.000	238.800	1680.000	238.500	1700.000	238.200	1720.000	236.800	1723.000
GR	238.300	1726.000	238.600	1750.000	253.500	1782.000	0.0	0.0	0.0	0.0
X1	7450.000	15.000	366.000	384.000	5150.000	5150.000	5150.000	0.0	-0.900	0.0
GR	281.400	0.0	273.500	100.000	269.700	200.000	267.100	300.000	265.800	366.000
GR	262.600	371.000	262.200	374.000	262.600	378.000	266.000	384.000	266.300	400.000
GR	275.300	500.000	276.400	600.000	275.700	700.000	277.300	800.000	281.400	878.000
X1	7500.000	15.000	364.000	384.000	50.000	50.000	50.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	281.400	0.0	275.500	100.000	271.500	200.000	267.100	300.000	263.500	364.000
GR	261.500	364.100	261.500	374.000	261.500	383.900	263.500	384.000	266.300	400.000
GR	275.300	500.000	276.400	600.000	275.600	700.000	277.100	800.000	281.400	878.000
SB	0.900	1.500	3.000	0.0	20.000	0.500	120.000	0.0	262.000	261.500
X1	7550.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
X2	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	9.000	200.000	271.500	0.0	300.000	270.200	267.100	364.000	270.400	264.000
BT	364.100	270.400	268.500	374.000	270.400	268.500	383.900	270.400	268.500	384.000
BT	270.400	264.000	400.000	270.600	266.300	500.000	272.600	0.0	0.0	0.0
X1	7600.000	15.000	366.000	384.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	281.400	0.0	273.500	100.000	269.700	200.000	267.100	300.000	265.800	366.000
GR	262.600	371.000	262.200	374.000	262.600	378.000	266.000	384.000	266.300	400.000
GR	275.300	500.000	276.400	600.000	275.700	700.000	277.300	800.000	281.400	878.000
QT	5.000	325.000	675.000	950.000	1900.000	950.000	0.0	0.0	0.0	0.0
X1	11000.000	11.000	246.000	260.000	3400.000	3400.000	3400.000	0.0	0.0	0.0
GR	299.700	0.0	293.000	100.000	288.300	200.000	284.500	246.000	282.200	250.000
GR	281.900	253.000	282.200	256.000	284.600	260.000	286.700	300.000	291.400	400.000

GR 300.200 500.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 EJ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

1	2	3	4	5	6	7	8	9	10	11	12
1	CCHV=	0.100	CEHV=	0.300							
2	SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
3	Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
4	TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
5	SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
6											
7											
8	2300.00	4.71	241.31	0.0	244.00	241.41	0.10	0.0	0.0	238.70	
9	1520.	788.	208.	523.	397.	50.	212.	0.	0.	258.80	
10	0.0	1.99	4.21	2.47	0.085	0.060	0.085	0.0	236.60	1451.28	
11	0.004995	2300.	2300.	2300.	0	0	5	0.0	304.54	1755.83	
12											
13											
14	7450.00	7.21	268.51	0.0	0.0	268.75	0.25	27.29	0.04	264.90	
15	1520.	676.	599.	245.	298.	106.	106.	69.	31.	265.10	
16	0.40	2.27	5.67	2.31	0.085	0.060	0.085	0.060	261.30	211.19	
17	0.005633	5150.	5150.	5150.	5	0	1	0.0	223.35	434.55	
18											
19											
20											
21	7500.00	7.24	268.74	0.0	0.0	268.98	0.24	0.23	0.00	265.50	
22	1520.	575.	742.	203.	251.	145.	95.	70.	31.	263.50	
23	0.40	2.29	5.13	2.15	0.085	0.060	0.085	0.060	261.50	262.64	
24	0.003863	50.	50.	50.	2	0	1	0.0	164.52	427.16	
25											
26											
27											
28	SPECIAL BRIDGE										
29											
30	SB	XK	XKOR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
31		0.90	1.50	3.00	0.0	20.00	0.50	120.00	0.0	262.00	261.50
32											
33											
34	4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 268.500 EGLC= 270.300 EGC= 272.046 WSEL= 270.953										
35	5301 HV CHANGED MORE THAN HVINS										
36											
37											
38											
39	NORMAL BRIDGE, NRD= 9 MIN ELTRD= 270.20 MAX ELLC= 268.50										
40											
41	7550.00	6.24	267.74	267.01	1.00	269.99	2.26	0.41	0.61	265.50	
42	1520.	11.	1504.	4.	16.	124.	4.	70.	32.	263.50	
43	0.40	0.71	12.12	1.12	0.085	0.060	0.085	0.060	261.50	285.65	
44	0.026674	50.	50.	50.	8	23	1	-197.21	130.26	415.91	
45											
46											
47											
48	5301 HV CHANGED MORE THAN HVINS										
49											
50	SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
51	Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
52	TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
53	SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
54											
55	7600.00	8.17	270.37	0.0	0.0	270.47	0.10	0.26	0.22	265.80	
56	1520.	778.	479.	264.	462.	123.	160.	70.	32.	266.00	
57	0.41	1.69	3.89	1.65	0.085	0.060	0.085	0.060	262.20	182.38	
	0.002169	50.	50.	50.	3	0	1	0.0	262.84	445.22	

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX FL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
2300.00	2300.00	0.0	0.0	236.60	1520.00	241.31	215.06	241.41	304.54	0.0	0.0	4.21
7450.00	5150.00	0.0	0.0	261.30	1520.00	268.51	202.52	268.75	223.35	0.0	0.0	5.67
7500.00	50.00	0.0	0.0	261.50	1520.00	268.74	244.56	268.98	164.52	0.0	0.0	5.13
7550.00	50.00	270.20	268.50	261.50	1520.00	267.74	93.07	269.99	130.26	0.0	0.0	12.12
7600.00	50.00	0.0	0.0	262.20	1520.00	270.37	326.36	270.47	262.84	0.0	0.0	3.89
11000.00	3400.00	0.0	0.0	281.90	950.00	287.33	67.83	288.13	101.54	0.0	0.0	8.93

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
2300.000	1520.000	241.313	0.0	0.0	0.0	304.543	0.0	2300.000
7450.000	1520.000	268.506	0.0	27.193	0.0	223.352	0.0	5150.000
7500.000	1520.000	268.744	0.0	0.238	0.0	164.518	0.0	50.000
7550.000	1520.000	267.735	0.0	-1.009	0.0	130.262	0.0	50.000
7600.000	1520.000	270.368	0.0	2.633	0.0	262.841	0.0	50.000
11000.000	950.000	287.326	0.0	16.958	0.0	101.537	0.0	3400.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	46.044	0.0

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 12 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	242.310	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

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 215.06 WSEL= 241.31 ENC Q1= 215.06 WSEL= 242.31 RATIO= 0.0

NAT Q1=	385.	RATIOS	LOB,CH,ROB=	0.5727	0.1101	0.3172	WSEL=	242.31	
SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	1585.9	1718.0	TYPE=	4	TARGET=	0.441			
2300.00	5.71	242.31	0.0	241.31	242.48	0.17	0.0	0.0	230.70
1520.	799.	294.	427.	286.	62.	144.	0.	0.	238.80
0.0	2.80	4.79	2.96	0.085	0.060	0.085	0.0	236.60	1585.88
0.004845	2300.	2300.	2300.	0	0	1	0.0	132.07	1717.95

2800 NAT Q1= 202.52 WSEL= 268.51 ENC Q1= 202.52 WSEL= 269.51 RATIO= 0.0
 NAT Q1= 332. RATIOS LOB,CH,ROB= 0.5139 0.3124 0.1737 WSEL= 269.51

3470 ENCROACHMENT STATIONS=	323.3	396.8	TYPE=	4	TARGET=	0.390			
7450.00	8.05	269.35	0.0	268.51	269.75	0.39	27.20	0.07	264.90
1520.	580.	759.	181.	172.	121.	53.	50.	12.	265.10
0.30	3.37	6.28	3.42	0.085	0.060	0.085	0.060	261.30	323.29
0.005780	5150.	5150.	5150.	7	0	1	0.0	73.49	396.78

2800 NAT Q1= 244.56 WSEL= 268.74 ENC Q1= 244.56 WSEL= 269.74 RATIO= -0.0000
 NAT Q1= 354. RATIOS LOB,CH,ROB= 0.4265 0.4184 0.1551 WSEL= 269.74

3470 ENCROACHMENT STATIONS=	330.3	394.7	TYPE=	4	TARGET=	0.309			
7500.00	8.19	269.69	0.0	268.74	269.97	0.28	0.21	0.01	263.50
1520.	526.	827.	166.	177.	164.	56.	50.	12.	263.50
0.30	2.98	5.06	2.95	0.085	0.060	0.085	0.060	261.50	330.27
0.003189	50.	50.	50.	2	0	1	0.0	64.45	394.72

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
2300.00	2300.00	0.0	0.0	236.60	1520.00	241.31	215.06	241.41	304.54	0.0	0.0	4.21
2300.00	2300.00	0.0	0.0	236.60	1520.00	242.31	218.38	242.48	132.07	1585.89	1717.95	4.79
7450.00	5150.00	0.0	0.0	261.30	1520.00	268.51	202.52	268.75	223.35	0.0	0.0	5.67
7450.00	5150.00	0.0	0.0	261.30	1520.00	269.35	199.93	269.75	73.49	323.29	396.78	6.28
7500.00	50.00	0.0	0.0	261.50	1520.00	268.74	244.56	268.98	164.52	0.0	0.0	5.13
7500.00	50.00	0.0	0.0	261.50	1520.00	269.69	269.15	269.97	64.45	330.27	394.72	5.06
7550.00	50.00	270.20	268.50	261.50	1520.00	267.74	93.07	269.99	130.26	0.0	0.0	12.12
7550.00	50.00	270.20	268.50	261.50	1520.00	269.03	75.63	270.81	174.19	0.0	0.0	10.77
7600.00	50.00	0.0	0.0	262.20	1520.00	270.37	326.36	270.47	262.84	0.0	0.0	3.89
7600.00	50.00	0.0	0.0	262.20	1520.00	271.10	313.10	271.27	99.45	306.11	405.57	4.34
11000.00	3400.00	0.0	0.0	281.90	950.00	287.33	67.83	288.13	101.54	0.0	0.0	8.93
11000.00	3400.00	0.0	0.0	281.90	950.00	287.31	52.98	288.96	30.29	237.74	268.03	11.40

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH @	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A 2300.000	1520.000	241.313	0.0	0.0	0.0	304.543	0.0	2300.000
2300.000	1520.000	242.310	0.997	0.0	0.0	132.066	172.477	2300.000
B 7450.000	1520.000	268.506	0.0	27.193	0.0	223.352	0.0	5150.000
7450.000	1520.000	269.353	0.847	27.043	0.0	73.490	149.862	5150.000
7500.000	1520.000	268.744	0.0	0.238	0.0	164.518	0.0	50.000
7500.000	1520.000	269.690	0.946	0.337	0.0	64.454	100.064	50.000
7550.000	1520.000	267.735	0.0	-1.009	0.0	130.262	0.0	50.000
7550.000	1520.000	269.029	1.294	-0.661	0.0	174.191	-43.929	50.000
C 7600.000	1520.000	270.368	0.0	2.633	0.0	262.841	0.0	50.000
7600.000	1520.000	271.105	0.737	2.075	0.0	99.454	163.387	50.000
D 11000.000	950.000	287.326	0.0	16.958	0.0	101.537	0.0	3400.000
11000.000	950.000	287.306	-0.020	16.201	0.0	30.293	71.243	3400.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	46.044	0.0
2	4.000	0.437	17.588	-28.456