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

J1	ICHECK	IN0	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
-1.	2.	0.	0.	0.003000	0.0	0.0	0.	228.000	0.0	
J2	NPROF	IPL0T	PREVS	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	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
WI	5.000	350.000	950.000	1450.000	2975.000	1450.000	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	250.000	15.000	800.000	1300.000	425.000	425.000	425.000	0.0	-1.000	0.0
GR	250.700	0.0	248.500	100.000	246.200	200.000	243.900	300.000	241.500	400.000
GR	238.800	500.000	236.300	600.000	225.600	800.000	224.600	1030.000	225.600	1300.000
GR	236.300	1320.000	241.400	1400.000	246.500	1500.000	254.600	1600.000	260.100	1630.000
X1	300.000	19.000	995.000	1065.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	250.700	0.0	248.900	100.000	247.200	200.000	245.400	300.000	244.000	400.000
GR	242.800	500.000	242.200	600.000	242.400	700.000	242.000	995.000	233.100	995.000
GR	224.600	1030.000	234.100	1065.000	242.000	1065.000	241.700	1100.000	242.400	1200.000
GR	243.200	1300.000	247.200	1500.000	253.000	1600.000	260.100	1698.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	70.000	3.000	798.000	0.0	0.0	0.0
X1	320.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	240.500	241.700	0.0	0.0	0.0	0.0	0.0
BT	16.000	0.0	250.700	0.0	100.000	248.900	0.0	200.000	247.200	0.0
BT	300.000	245.400	0.0	400.000	244.000	0.0	500.000	242.800	0.0	600.000
BT	242.200	0.0	700.000	242.400	0.0	995.000	242.000	240.500	1065.000	242.000
BT	240.500	1100.000	241.700	0.0	1200.000	242.400	0.0	1300.000	243.200	0.0
BT	1500.000	247.200	0.0	1600.000	253.000	0.0	1698.000	260.100	0.0	0.0
X1	400.000	15.000	800.000	1300.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	250.700	0.0	248.500	100.000	246.200	200.000	243.900	300.000	241.500	400.000
GR	238.800	500.000	236.300	600.000	225.600	800.000	224.600	1030.000	225.600	1300.000
GR	236.300	1320.000	241.400	1400.000	246.500	1500.000	254.600	1600.000	260.100	1630.000
X1	5400.000	11.000	996.000	1004.000	5000.000	5000.000	5000.000	0.0	0.0	0.0
GR	270.000	0.0	270.000	300.000	260.000	550.000	250.000	650.000	250.000	800.000
GR	243.000	996.000	240.000	1000.000	243.000	1004.000	250.000	1100.000	260.000	1200.000
GR	270.000	1250.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	8150.000	9.000	596.000	604.000	2750.000	2750.000	2750.000	0.0	0.0	0.0
GR	280.000	0.0	270.000	200.000	260.000	350.000	253.000	596.000	250.000	600.000
GR	253.000	604.000	260.000	925.000	270.000	1100.000	280.000	1200.000	0.0	0.0
WT	5.000	250.000	600.000	925.000	1680.000	925.000	0.0	0.0	0.0	0.0

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	TW	EG	TOPWID	STENCL	STENCR	VCH
250.00	425.00	0.0	0.0	223.60	350.00	224.77	64.22	224.79	503.58	0.0	0.0	1.04
300.00	50.00	0.0	0.0	224.60	350.00	228.04	16.15	228.93	26.88	0.0	0.0	7.56
325.00	25.00	241.70	240.50	224.60	350.00	228.24	18.71	228.95	28.42	0.0	0.0	6.76
400.00	75.00	0.0	0.0	224.60	350.00	229.03	1239.16	229.03	570.41	0.0	0.0	0.17
5400.00	5000.00	0.0	0.0	240.00	350.00	244.66	20.52	245.25	77.32	0.0	0.0	7.84
8150.00	2750.00	0.0	0.0	250.00	350.00	255.84	92.42	255.87	238.65	0.0	0.0	2.15
13000.00	12575.00	0.0	0.0	287.50	250.00	290.82	20.89	291.25	69.66	0.0	0.0	5.28
13050.00	50.00	0.0	0.0	287.40	250.00	291.69	16.91	292.12	92.11	0.0	0.0	6.10
13100.00	50.00	297.70	299.70	287.40	250.00	291.69	17.00	292.12	92.38	0.0	0.0	6.07
13150.00	50.00	0.0	0.0	287.50	250.00	292.26	82.78	292.28	226.05	0.0	0.0	1.77
13500.00	350.00	0.0	0.0	291.00	250.00	294.28	11.39	295.21	17.85	0.0	0.0	7.75

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
250.000	350.000	224.774	0.0	0.0	0.0	503.584	0.0	425.000
300.000	350.000	228.045	0.0	3.271	0.0	26.877	0.0	50.000
325.000	350.000	228.242	0.0	0.197	0.0	28.415	0.0	25.000
400.000	350.000	229.025	0.0	0.783	0.0	570.412	0.0	75.000
5400.000	350.000	244.662	0.0	15.636	0.0	77.322	0.0	5000.000
8150.000	350.000	255.845	0.0	11.183	0.0	238.655	0.0	2750.000
13000.000	250.000	290.824	0.0	34.980	0.0	69.662	0.0	12575.000
13050.000	250.000	291.693	0.0	0.868	0.0	92.109	0.0	50.000
13100.000	250.000	291.693	0.0	0.0	0.0	92.378	0.0	50.000
13150.000	250.000	292.257	0.0	0.564	0.0	226.053	0.0	50.000
13500.000	250.000	294.285	0.0	2.028	0.0	17.854	0.0	350.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	93.849	0.0

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T1 IRIB. 10 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.003000	0.0	0.0	0.	230.000	0.0

J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
250.00	1.73	225.33	0.0	230.00	225.36	0.04	0.0	0.0	224.60
950.	2.	947.	0.	5.	614.	0.	0.	0.	224.60
0.0	0.48	1.54	0.45	0.085	0.060	0.085	0.0	223.60	786.41
0.002957	425.	425.	425.	0	0	6	0.0	514.95	1301.36

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
300.00	5.14	229.74	229.74	0.0	231.06	1.32	0.37	0.0	242.00
950.	0.	950.	0.	0.	103.	0.	0.	0.	242.00
0.00	0.0	9.23	0.0	0.085	0.060	0.085	0.059	224.60	1008.85
0.041208	50.	50.	50.	30	23	1	0	40.07	1048.92

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	70.00	3.00	798.00	0.0	224.60	224.60

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T1 TRIB. 10 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	FQ
	-10.	4.	0.	0.	0.003000	0.0	0.0	0.	232.000	0.0

J2	NPROF	IPLT	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	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
250.00	2.07	225.67	0.0	232.00	225.73	0.05	0.0	0.0	224.60
1450.	7.	1443.	1.	11.	787.	1.	0.	0.	224.60
0.0	0.63	1.83	0.58	0.085	0.060	0.085	0.0	223.60	779.94
0.002998	425.	425.	425.	0	0	7	0.0	522.06	1302.01

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
300.00	6.08	230.68	230.68	0.0	232.25	1.57	0.37	0.0	242.00
1450.	0.	1450.	0.	0.	144.	0.	1.	0.	242.00
0.00	0.0	10.05	0.0	0.085	0.060	0.085	0.059	224.60	1004.95
0.038956	50.	50.	50.	30	23	1	0.0	47.46	1052.41

SPECIAL BRIDGE

50/0,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	70.00	3.00	798.00	0.0	224.60	224.60

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

T1 IRIB, 10 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	FG
	-10.	5.	0.	0.	0.003000	0.0	0.0	0.	233.000	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								
SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST	

250.00	2.92	226.52	0.0	233.00	226.61	0.09	0.0	0.0	224.60	
2975.	32.	2940.	3.	34.	1208.	3.	0.	0.	224.60	
0.0	0.93	2.43	0.85	0.085	0.060	0.085	0.0	223.60	764.19	
0.002980	425.	425.	425.	0	0	6	0.0	539.39	1303.58	

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST	
300.00	8.12	232.72	232.72	0.0	234.80	2.07	0.36	0.0	242.00	
2975.	0.	2975.	0.	0.	258.	0.	1.	0.	242.00	
0.00	0.0	11.55	0.0	0.085	0.060	0.085	0.059	224.60	996.55	
0.035027	50.	50.	50.	30	23	1	0.0	63.39	1059.93	

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	70.00	3.00	798.00	0.0	224.60	224.60

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	EG	TOPWID	STENCL	STENCR	VCH	
A	250.00	425.00	0.0	0.0	223.60	350.00	224.77	64.22	224.79	503.58	0.0	0.0	1.04
A	250.00	425.00	0.0	0.0	223.60	950.00	225.33	174.69	225.36	514.95	0.0	0.0	1.54
A	250.00	425.00	0.0	0.0	223.60	1450.00	225.67	264.84	225.73	522.06	0.0	0.0	1.83
A	250.00	425.00	0.0	0.0	223.60	2975.00	226.52	545.00	226.61	539.39	0.0	0.0	2.43
	300.00	50.00	0.0	0.0	224.60	350.00	228.04	16.13	228.93	26.88	0.0	0.0	7.56
	300.00	50.00	0.0	0.0	224.60	950.00	229.74	46.80	231.06	40.07	0.0	0.0	9.23
	300.00	50.00	0.0	0.0	224.60	1450.00	230.68	73.47	232.25	47.46	0.0	0.0	10.05
	300.00	50.00	0.0	0.0	224.60	2975.00	232.72	158.96	234.80	63.39	0.0	0.0	11.55
	325.00	25.00	241.70	240.50	224.60	350.00	228.24	18.71	228.95	28.42	0.0	0.0	6.76
	325.00	25.00	241.70	240.50	224.60	950.00	230.03	54.28	231.09	42.37	0.0	0.0	8.26
	325.00	25.00	241.70	240.50	224.60	1450.00	231.03	85.22	232.29	50.17	0.0	0.0	8.99
	325.00	25.00	241.70	240.50	224.60	2975.00	233.18	184.35	234.85	66.61	0.0	0.0	10.36
B	400.00	75.00	0.0	0.0	224.60	350.00	229.03	1239.16	229.03	570.41	0.0	0.0	0.17
B	400.00	75.00	0.0	0.0	224.60	950.00	231.20	2630.96	231.20	615.08	0.0	0.0	0.30
B	400.00	75.00	0.0	0.0	224.60	1450.00	232.41	3599.28	232.42	640.08	0.0	0.0	0.38
B	400.00	75.00	0.0	0.0	224.60	2975.00	235.02	6111.04	235.02	693.58	0.0	0.0	0.56
A	500.00	5000.00	0.0	0.0	240.00	350.00	244.66	20.52	245.25	77.32	0.0	0.0	7.84
A	5400.00	5000.00	0.0	0.0	240.00	950.00	245.75	53.31	246.46	122.92	0.0	0.0	9.99
A	5400.00	5000.00	0.0	0.0	240.00	1450.00	246.31	79.34	247.10	146.14	0.0	0.0	11.12
A	5400.00	5000.00	0.0	0.0	240.00	2975.00	247.42	154.18	248.43	192.55	0.0	0.0	13.48
B	8150.00	2750.00	0.0	0.0	250.00	350.00	255.84	92.42	255.87	238.65	0.0	0.0	2.15
B	8150.00	2750.00	0.0	0.0	250.00	950.00	257.29	249.92	257.32	356.25	0.0	0.0	2.62
B	8150.00	2750.00	0.0	0.0	250.00	1450.00	258.08	380.47	258.11	419.87	0.0	0.0	2.86
B	8150.00	2750.00	0.0	0.0	250.00	2975.00	259.73	776.23	259.77	552.84	0.0	0.0	3.33
C	13000.00	12575.00	0.0	0.0	287.50	250.00	290.82	20.89	291.25	69.66	0.0	0.0	5.28
C	13000.00	12575.00	0.0	0.0	287.50	600.00	291.74	49.35	292.19	216.88	0.0	0.0	6.51
C	13000.00	12575.00	0.0	0.0	287.50	925.00	292.13	73.93	292.59	223.93	0.0	0.0	7.18
C	13000.00	12575.00	0.0	0.0	287.50	1680.00	292.75	127.62	293.27	235.17	0.0	0.0	8.32
	13050.00	50.00	0.0	0.0	287.40	250.00	291.69	16.91	292.12	92.11	0.0	0.0	6.10
	13050.00	50.00	0.0	0.0	287.40	600.00	292.71	49.48	292.95	148.61	0.0	0.0	5.77
	13050.00	50.00	0.0	0.0	287.40	925.00	293.13	71.98	293.41	169.75	0.0	0.0	6.44
	13050.00	50.00	0.0	0.0	287.40	1680.00	293.83	121.70	294.19	204.88	0.0	0.0	7.48
	13100.00	50.00	297.70	299.70	287.40	250.00	291.69	17.00	292.12	92.38	0.0	0.0	6.07
	13100.00	50.00	297.70	299.70	287.40	600.00	292.71	49.51	292.95	148.64	0.0	0.0	5.77
	13100.00	50.00	297.70	299.70	287.40	925.00	293.13	72.05	293.41	169.81	0.0	0.0	6.44
	13100.00	50.00	297.70	299.70	287.40	1680.00	293.83	121.63	294.19	204.84	0.0	0.0	7.49
	13150.00	50.00	0.0	0.0	287.50	250.00	292.26	82.78	292.26	226.05	0.0	0.0	1.77
D	13150.00	50.00	0.0	0.0	287.50	600.00	293.09	162.73	293.13	241.14	0.0	0.0	2.44
D	13150.00	50.00	0.0	0.0	287.50	925.00	293.57	221.67	293.63	249.85	0.0	0.0	2.94
D	13150.00	50.00	0.0	0.0	287.50	1680.00	294.39	340.87	294.48	264.51	0.0	0.0	3.81

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SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TO EG	TOPWID	STENCL	STENCR	VCH		
1	13500.00	350.00	0.0	0.0	291.00	250.00	294.28	11.39	291.21	17.85	0.0	0.0	7.73
2	13500.00	350.00	0.0	0.0	291.00	600.00	296.13	41.64	296.93	86.26	0.0	0.0	7.59
3	13500.00	350.00	0.0	0.0	291.00	925.00	296.84	68.84	297.62	121.66	0.0	0.0	8.06
4	13500.00	350.00	0.0	0.0	291.00	1680.00	297.78	123.38	298.65	168.11	0.0	0.0	9.39
5	250.000	350.000	224.774	0.0	0.0	0.0	503.584	0.0	425.000				
6	250.000	950.000	225.327	0.553	0.0	0.0	514.953	-11.369	425.000				
7	250.000	1450.000	225.673	0.346	0.0	0.0	522.063	-18.479	425.000				
8	250.000	2975.000	226.516	0.843	0.0	0.0	539.391	-35.808	425.000				
9	300.000	350.000	228.045	0.0	3.271	0.0	26.877	0.0	50.000				
10	300.000	950.000	229.736	1.691	4.409	0.0	40.074	-13.197	50.000				
11	300.000	1450.000	230.683	0.946	5.010	0.0	47.458	-20.580	50.000				
12	300.000	2975.000	232.725	2.042	6.209	0.0	63.388	-36.510	50.000				
13	325.000	350.000	228.242	0.0	0.197	0.0	28.415	0.0	25.000				
14	325.000	950.000	230.030	1.788	0.294	0.0	42.366	-13.951	25.000				
15	325.000	1450.000	231.031	1.001	0.348	0.0	50.173	-21.758	25.000				
16	325.000	2975.000	233.181	2.150	0.456	0.0	66.615	-38.199	25.000				
17	400.000	350.000	229.025	0.0	0.783	0.0	570.412	0.0	75.000				
18	400.000	950.000	231.197	2.172	1.167	0.0	615.082	-44.670	75.000				
19	400.000	1450.000	232.413	1.216	1.382	0.0	640.076	-69.665	75.000				
20	400.000	2975.000	235.015	2.602	1.834	0.0	693.583	-123.171	75.000				
21	5400.000	350.000	244.662	0.0	15.636	0.0	77.322	0.0	5000.000				
22	5400.000	950.000	245.755	1.093	14.557	0.0	122.920	-45.598	5000.000				
23	5400.000	1450.000	246.312	0.557	13.899	0.0	146.140	-68.819	5000.000				
24	5400.000	2975.000	247.424	1.113	12.409	0.0	192.549	-115.228	5000.000				
25	8150.000	350.000	255.845	0.0	11.183	0.0	238.655	0.0	2750.000				
26	8150.000	950.000	257.291	1.446	11.536	0.0	356.247	-117.593	2750.000				
27	8150.000	1450.000	258.076	0.785	11.764	0.0	419.874	-181.219	2750.000				
28	8150.000	2975.000	259.727	1.651	12.303	0.0	552.838	-314.183	2750.000				
29	13000.000	250.000	290.824	0.0	34.980	0.0	69.662	0.0	12575.000				
30	13000.000	600.000	291.737	0.912	34.446	0.0	216.883	-147.222	12575.000				
31	13000.000	925.000	292.128	0.392	34.053	0.0	223.930	-154.268	12575.000				
32	13000.000	1680.000	292.753	0.625	33.027	0.0	235.167	-165.505	12575.000				
33	13050.000	250.000	291.693	0.0	0.868	0.0	92.109	0.0	50.000				
34	13050.000	600.000	292.706	1.013	0.969	0.0	148.614	-56.505	50.000				
35	13050.000	925.000	293.130	0.424	1.002	0.0	169.752	-77.643	50.000				
36	13050.000	1680.000	293.832	0.702	1.079	0.0	204.879	-112.769	50.000				
37	13100.000	250.000	291.693	0.0	0.0	0.0	92.378	0.0	50.000				
38	13100.000	600.000	292.706	1.013	0.0	0.0	148.640	-56.262	50.000				
39	13100.000	925.000	293.130	0.424	0.0	0.0	169.805	-77.427	50.000				
40	13100.000	1680.000	293.832	0.702	0.0	0.0	204.856	-112.458	50.000				
41	13150.000	250.000	292.257	0.0	0.564	0.0	226.053	0.0	50.000				
42	13150.000	600.000	293.089	0.832	0.383	0.0	241.142	-15.089	50.000				
43	13150.000	925.000	293.574	0.485	0.444	0.0	249.853	-23.800	50.000				
44	13150.000	1680.000	294.388	0.814	0.556	0.0	264.506	-38.453	50.000				
45	13500.000	250.000	294.285	0.0	2.028	0.0	17.854	0.0	350.000				

critical depth was modified to 295.7

13500.000	600.000	296.130	1.845	3.041	0.0	86.264	-68.411	350.000
13500.000	925.000	296.845	0.715	3.271	0.0	121.665	-103.811	350.000
13500.000	1680.000	297.783	0.938	3.395	0.0	168.112	-150.259	350.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1					
2					
3					
4	1	0.0	0.0	93.849	0.0
5	2	0.0	0.0	143.035	49.186
6	3	0.0	0.0	159.020	65.171
7	4	0.0	0.0	191.660	97.811
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 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 10 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	4.	0.	0.	0.003000	0.0	0.0	0.	232.000	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	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	350.000	950.000	1450.000	2975.000	1450.000	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	250.000	15.000	800.000	1300.000	425.000	425.000	425.000	0.0	-1.000	0.0
GR	250.700	0.0	248.500	100.000	246.200	200.000	243.900	300.000	241.500	400.000
GR	238.800	500.000	236.300	600.000	225.600	800.000	224.600	1030.000	225.600	1300.000
GR	236.300	1320.000	241.400	1400.000	246.500	1500.000	254.600	1600.000	260.100	1630.000
X1	300.000	19.000	995.000	1065.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	250.700	0.0	248.900	100.000	247.200	200.000	245.400	300.000	244.000	400.000
GR	242.800	500.000	242.200	600.000	242.400	700.000	242.000	995.000	233.100	995.000
GR	224.600	1030.000	234.100	1065.000	242.000	1065.000	241.700	1100.000	242.400	1200.000
GR	243.200	1300.000	247.200	1500.000	253.000	1600.000	260.100	1698.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	70.000	3.000	798.000	0.0	0.0	0.0
X1	325.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	240.500	241.700	0.0	0.0	0.0	0.0	0.0
BT	16.000	0.0	250.700	0.0	100.000	248.900	0.0	200.000	247.200	0.0
BT	300.000	245.400	0.0	400.000	244.000	0.0	500.000	242.800	0.0	600.000
BT	242.200	0.0	700.000	242.400	0.0	995.000	242.000	240.500	1065.000	242.000
HT	240.500	1100.000	241.700	0.0	1200.000	242.400	0.0	1300.000	243.200	0.0
BT	1500.000	247.200	0.0	1600.000	253.000	0.0	1698.000	260.100	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-15.400	0.0	0.0	0.0	0.0
X1	400.000	15.000	800.000	1300.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	250.700	0.0	248.500	100.000	246.200	200.000	243.900	300.000	241.500	400.000
GR	238.800	500.000	236.300	600.000	225.600	800.000	224.600	1030.000	225.600	1300.000
GR	236.300	1320.000	241.400	1400.000	246.500	1500.000	254.600	1600.000	260.100	1630.000
X1	65400.000	11.000	996.000	1004.000	5000.000	5000.000	5000.000	0.0	0.0	0.0
GR	270.000	0.0	270.000	300.000	260.000	550.000	250.000	650.000	250.000	800.000
GR	243.000	996.000	240.000	1000.000	243.000	1004.000	250.000	1100.000	260.000	1200.000
GR	270.000	1250.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	30.400	0.0	0.0	0.0	0.0
X1	8150.000	9.000	596.000	604.000	2750.000	2750.000	2750.000	0.0	0.0	0.0
GR	280.000	0.0	270.000	200.000	260.000	350.000	253.000	596.000	250.000	600.000

SR
2711

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
250.00	425.00	0.0	0.0	223.60	1450.00	225.67	264.84	225.73	522.06	0.0	0.0	1.83
300.00	50.00	0.0	0.0	224.60	1450.00	230.68	73.47	232.25	47.46	0.0	0.0	10.05
325.00	25.00	241.70	240.50	224.60	1450.00	231.03	85.22	232.29	50.17	0.0	0.0	8.99
400.00	75.00	0.0	0.0	224.60	1450.00	232.41	3599.28	232.42	640.08	0.0	0.0	0.38
5400.00	5000.00	0.0	0.0	240.00	1450.00	246.31	79.34	247.10	146.14	0.0	0.0	11.12
8150.00	2750.00	0.0	0.0	250.00	1450.00	258.08	380.47	258.11	419.87	0.0	0.0	2.86
13000.00	12575.00	0.0	0.0	237.50	925.00	292.13	73.96	292.59	223.88	0.0	0.0	7.17
13050.00	50.00	0.0	0.0	287.40	925.00	293.13	71.79	293.41	169.59	0.0	0.0	6.46
13100.00	50.00	297.70	299.70	287.40	925.00	293.13	71.84	293.41	169.63	0.0	0.0	6.45
13150.00	50.00	0.0	0.0	287.50	925.00	293.57	221.50	293.63	249.83	0.0	0.0	2.94
13500.00	350.00	0.0	0.0	291.00	925.00	296.84	68.77	297.62	121.59	0.0	0.0	8.07

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
250.000	1450.000	225.673	0.0	0.0	0.0	522.063	0.0	425.000
300.000	1450.000	230.683	0.0	5.010	0.0	47.458	0.0	50.000
325.000	1450.000	231.031	0.0	0.348	0.0	50.173	0.0	25.000
400.000	1450.000	232.413	0.0	1.382	0.0	640.076	0.0	75.000
5400.000	1450.000	246.312	0.0	13.899	0.0	146.140	0.0	5000.000
8150.000	1450.000	258.076	0.0	11.764	0.0	419.874	0.0	2750.000
13000.000	925.000	292.126	0.0	34.050	0.0	223.878	0.0	12575.000
13050.000	925.000	293.127	0.0	1.001	0.0	169.588	0.0	50.000
13100.000	925.000	293.127	0.0	0.0	0.0	169.634	0.0	50.000
13150.000	925.000	293.573	0.0	0.446	0.0	249.830	0.0	50.000
13500.000	925.000	296.844	0.0	3.271	0.0	121.592	0.0	350.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	159.012	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. 10 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	226.670	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= 264.84 WSEL= 225.67 ENC Q1= 598.31 WSEL= 226.67 RATIO= -1.2591
 NAT Q1= 606. RATIOS LOB,CH,ROB= 0.0119 0.9871 0.0011 WSEL= 226.67

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	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= 800.0 1300.0 TYPE= 4 TARGET= 0.013

250.00	3.97	226.67	0.0	225.67	226.69	0.02	0.0	0.0	224.60
1450.	0.	1450.	0.	0.	1285.	0.	0.	0.	224.60
0.0	0.0	1.13	0.00	0.085	0.060	0.085	0.0	223.60	800.00
0.000593	425.	425.	425.	0	0	1	0.0	500.00	1300.00

IHC209I IBCOM - PROGRAM INTERRUPT (P) - DIVIDE CHECK OLD PSW IS FFB5000F420FBA7C . REGISTER CONTAINED 0000000000000000

TRACEBACK ROUTINE CALLED FROM ISN REG. 14 REG. 15 REG. 0 REG. 1
 MAIN 0001BEEA 010F4BC0 FD000008 00170FF8

ENTRY POINT= 010F4BC0

STANDARD FIXUP TAKEN , EXECUTION CONTINUING
 2800 NAT Q1= 73.47 WSEL= 230.68 ENC Q1= 110.24 WSEL= 231.68 RATIO= -0.5006
 NAT Q1= 110. RATIOS LOB,CH,ROB= 0.0 1.0000 0.0 WSEL= 231.68
 3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

BASIN 20 TRIB 10.

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
250.00	A 425.00	0.0	0.0	223.60	1450.00	225.67	264.84	225.73	522.06	0.0	0.0	1.83
250.00	A 425.00	0.0	0.0	223.60	1450.00	226.67	595.50	226.69	500.00	800.00	1300.00	1.13
300.00	50.00	0.0	0.0	224.60	1450.00	230.68	73.47	232.25	47.46	0.0	0.0	10.05
300.00	50.00	0.0	0.0	224.60	1450.00	230.69	73.72	232.25	47.52	995.00	1065.00	10.02
325.00	25.00	241.70	240.50	224.60	1450.00	231.03	85.22	232.29	50.17	0.0	0.0	8.99
325.00	25.00	241.70	240.50	224.60	1450.00	232.03	125.29	232.73	57.98	0.0	0.0	6.73
400.00	B 75.00	0.0	0.0	224.60	1450.00	232.41	3599.28	232.42	640.08	0.0	0.0	0.38
400.00	B 75.00	0.0	0.0	224.60	1450.00	232.81	3688.25	232.81	500.00	800.00	1300.00	0.38
5400.00	A 5000.00	0.0	0.0	240.00	1450.00	246.31	79.34	247.10	146.14	0.0	0.0	11.12
5400.00	A 5000.00	0.0	0.0	240.00	1450.00	246.33	73.55	247.50	64.37	958.17	1022.53	12.02
8150.00	B 2750.00	0.0	0.0	250.00	1450.00	258.08	380.47	258.11	419.87	0.0	0.0	2.86
8150.00	B 2750.00	0.0	0.0	250.00	1450.00	258.30	379.82	258.87	147.16	563.97	711.13	3.07
13000.00	C 12575.00	0.0	0.0	287.50	925.00	292.13	73.96	292.59	223.88	0.0	0.0	7.17
13000.00	C 12575.00	0.0	0.0	287.50	925.00	292.51	76.57	293.07	100.00	300.00	400.00	7.37
13050.00	50.00	0.0	0.0	287.40	925.00	293.13	71.79	293.41	169.59	0.0	0.0	6.46
13050.00	50.00	0.0	0.0	287.40	925.00	293.47	69.65	293.88	75.54	1009.55	1085.10	6.92
13100.00	50.00	297.70	299.70	287.40	925.00	293.13	71.84	293.41	169.63	0.0	0.0	6.45
13100.00	50.00	297.70	299.70	287.40	925.00	293.63	105.45	293.88	194.58	0.0	0.0	4.65
13150.00	D 50.00	0.0	0.0	287.50	925.00	293.57	221.50	293.63	249.83	0.0	0.0	2.94
13150.00	D 50.00	0.0	0.0	287.50	925.00	293.97	276.67	294.01	257.00	200.00	500.00	2.47
13500.00	350.00	0.0	0.0	291.00	925.00	296.84	68.77	297.62	121.59	0.0	0.0	8.07
13500.00	350.00	0.0	0.0	291.00	925.00	296.69	45.51	298.68	21.00	436.00	457.00	11.32

@ Boundary 7
 Average limit
 WAKE COUNTY
 SWAMP BEAM 5
 A
 B
 C
 D

CEIT DEPTH

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A 250.000	1450.000	225.673	0.0	0.0	0.0	522.063	0.0	425.000
A 250.000	1450.000	226.670	0.997	0.0	0.0	500.001	22.062	425.000
300.000	1450.000	230.683	0.0	5.010	0.0	47.458	0.0	50.000
300.000	1450.000	230.691	0.008	4.021	0.0	47.518	-0.060	50.000
325.000	1450.000	231.031	0.0	0.348	0.0	50.173	0.0	25.000
325.000	1450.000	232.031	1.000	1.340	0.0	57.975	-7.802	25.000
B 400.000	1450.000	232.413	0.0	1.382	0.0	640.076	0.0	75.000
B 400.000	1450.000	232.807	0.394	0.776	0.0	500.001	140.075	75.000
5400.000	1450.000	246.312	0.0	13.899	0.0	146.140	0.0	5000.000
5400.000	1450.000	246.327	0.015	13.520	0.0	64.365	81.775	5000.000
8150.000	1450.000	258.076	0.0	11.764	0.0	419.874	0.0	2750.000
8150.000	1450.000	258.799	0.724	12.473	0.0	147.158	272.716	2750.000

~~XXXXXXXXXX~~

~~XXXXXXXXXX~~

USE "0" ENCRD.

13000.000	925.000	292.126	✓ 0.0	34.050	0.0	223.878	0.0	12575.000
13000.000	925.000	292.512	0.386	33.713	0.0	99.999	123.879	12575.000
13050.000	925.000	293.127	✓ 0.0	1.001	0.0	169.588	0.0	50.000
13050.000	925.000	293.472	0.345	0.959	0.0	75.544	94.044	50.000
13100.000	925.000	293.127	✓ 0.0	0.0	0.0	169.634	0.0	50.000
13100.000	925.000	293.626	0.500	0.155	0.0	194.577	-24.943	50.000
13150.000	925.000	293.573	✓ 0.0	0.446	0.0	249.830	0.0	50.000
13150.000	925.000	293.969	0.396	0.342	0.0	256.996	-7.166	50.000
13500.000	925.000	296.844	? 0.0	CRITICAL 3.271	0.0	121.592	0.0	350.000
13500.000	925.000	296.689	-0.155	DEPTH. 2.720	0.0	21.001	100.591	350.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	159.012	0.0
2	4.000	0.423	77.198	-81.813