
 HEC2 VERSION UPDATED AUG 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 52,53,54,55,56,57,58,59

T1 STREAM 1F FUQUAY-VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.007000	0.0	0.0	0.	300.000	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	29.000	0.0	0.0
NC	0.085	0.085	0.045	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1100.000	1780.000	2100.000	3350.000	2100.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	10.400	0.0	0.0	0.0	0.0
X1	250.000	19.000	1235.000	1266.000	250.000	250.000	250.000	0.0	-8.400	0.0
GR	327.300	1000.000	321.900	1035.000	311.000	1100.000	310.700	1144.000	312.300	1147.000
GR	312.200	1157.000	311.300	1177.000	310.600	1186.000	309.900	1189.000	311.000	1200.000
GR	310.900	1235.000	306.000	1239.000	305.200	1247.000	306.100	1260.000	311.100	1266.000
GR	312.800	1300.000	315.800	1400.000	326.100	1500.000	328.200	1527.000	0.0	0.0
X1	300.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
X1	350.000	23.000	1306.500	1311.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	321.300	1000.000	317.600	1075.000	314.100	1097.000	303.200	1162.000	302.900	1206.000
GR	304.500	1209.000	304.400	1219.000	303.500	1239.000	302.800	1248.000	302.100	1251.000
GR	303.200	1262.000	303.100	1297.000	299.900	1306.500	298.400	1307.000	297.400	1309.000
GR	298.400	1311.000	299.900	1311.500	303.300	1328.000	305.000	1362.000	308.000	1462.000
GR	318.300	1562.000	320.400	1589.000	321.300	1592.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.600	0.0	0.0	0.0
X1	374.000	0.0	0.0	0.0	24.000	24.000	24.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	302.400	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	321.300	0.0	1100.000	316.200	0.0	1165.000	308.500	0.0
BT	1169.000	305.200	0.0	1179.000	304.700	0.0	1189.000	305.100	0.0	1199.000
BT	305.200	0.0	1300.000	304.800	0.0	1306.500	305.000	299.900	1307.000	305.000
BT	301.400	1309.000	305.000	302.400	1311.000	305.000	301.400	1311.500	305.000	299.900
BT	1400.000	307.100	0.0	1500.000	313.300	0.0	1592.000	321.300	0.0	0.0
X1	424.000	19.000	1235.000	1266.000	50.000	50.000	50.000	0.0	-7.500	0.0
GR	327.300	1000.000	321.900	1035.000	311.000	1100.000	310.700	1144.000	312.300	1147.000
GR	312.200	1157.000	311.300	1177.000	310.600	1186.000	309.900	1189.000	311.000	1200.000
GR	310.900	1235.000	306.000	1239.000	305.200	1247.000	306.100	1260.000	311.100	1266.000
GR	312.800	1300.000	315.800	1400.000	326.100	1500.000	328.200	1527.000	0.0	0.0

X1	474.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
QT	5.000	1070.000	1740.000	2050.000	3275.000	2050.000	0.0	0.0	0.0	0.0
X1	1450.000	19.000	1235.000	1266.000	976.000	976.000	976.000	0.0	0.0	0.0
GR	327.300	1000.000	321.900	1035.000	311.000	1100.000	310.700	1144.000	312.300	1147.000
GR	312.200	1157.000	311.300	1177.000	310.600	1186.000	309.900	1189.000	311.000	1200.000
GR	310.900	1235.000	306.000	1239.000	305.200	1247.000	306.100	1260.000	311.100	1266.000
GR	312.800	1300.000	315.800	1400.000	326.100	1500.000	328.200	1527.000	0.0	0.0
X1	1500.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
X1	1550.000	13.000	1480.000	1520.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	312.800	1000.000	313.600	1100.000	312.900	1200.000	312.300	1300.000	312.000	1400.000
GR	304.900	1480.000	305.800	1500.000	306.200	1520.000	313.600	1600.000	315.400	1700.000
GR	316.700	1800.000	316.500	1900.000	317.400	2000.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	40.000	0.010	205.000	0.0	0.0	0.0
X1	1590.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	311.200	0.0	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	312.800	0.0	1100.000	313.600	0.0	1200.000	312.900	0.0
BT	1300.000	312.300	0.0	1400.000	312.000	0.0	1480.000	312.800	310.400	1520.000
BT	313.500	311.200	1600.000	313.600	0.0	1700.000	315.400	0.0	1800.000	316.700
BT	0.0	1900.000	316.500	0.0	2000.000	317.400	0.0	0.0	0.0	0.0
X1	1640.000	19.000	1235.000	1266.000	50.000	50.000	50.000	0.0	0.900	0.0
GR	327.300	1000.000	321.900	1035.000	311.000	1100.000	310.700	1144.000	312.300	1147.000
GR	312.200	1157.000	311.300	1177.000	310.600	1186.000	309.900	1189.000	311.000	1200.000
GR	310.900	1235.000	306.000	1239.000	305.200	1247.000	306.100	1260.000	311.100	1266.000
GR	312.800	1300.000	315.800	1400.000	326.100	1500.000	328.200	1527.000	0.0	0.0
X1	1690.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
QT	5.000	700.000	1170.000	1390.000	2060.000	1390.000	0.0	0.0	0.0	0.0
NC	0.065	0.065	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	2850.000	12.000	1361.000	1382.000	1160.000	1160.000	1160.000	0.0	0.0	0.0
GR	337.500	1000.000	331.100	1100.000	325.500	1200.000	322.900	1300.000	320.400	1361.000
GR	313.200	1366.000	312.700	1370.000	313.300	1373.000	318.600	1382.000	318.800	1400.000
GR	326.900	1500.000	337.200	1603.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	2900.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.400	0.0
X1	2950.000	24.000	1365.700	1386.100	50.000	50.000	50.000	0.0	0.0	0.0
GR	337.400	1000.000	330.900	1100.000	325.700	1200.000	323.200	1300.000	322.600	1355.000
GR	318.700	1365.700	316.700	1366.500	315.900	1368.500	316.700	1370.500	318.700	1371.200
GR	318.700	1373.200	316.700	1374.000	315.900	1376.000	316.700	1378.000	318.700	1378.700
GR	318.700	1380.700	316.700	1381.500	315.900	1383.400	316.700	1385.500	318.700	1386.200
GR	322.400	1400.000	324.200	1500.000	330.400	1600.000	337.400	1697.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	16.500	0.010	71.300	0.0	0.0	0.0
X1	2992.000	0.0	0.0	0.0	42.000	42.000	42.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	321.400	0.0	0.0	0.0	0.0	0.0	0.0
BT	23.000	1000.000	337.400	0.0	1100.000	330.900	0.0	1200.000	325.700	0.0
BT	1300.000	323.200	0.0	1365.700	322.500	318.700	1366.500	322.500	320.500	1368.500
BT	322.500	321.400	1370.500	322.500	320.500	1371.200	322.500	318.700	1373.200	322.400
BT	318.700	1374.000	322.400	320.500	1376.000	322.400	321.400	1378.000	322.400	320.500

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 MODIFICATIONS 52,53,54,55,56,57,58,59

T1 STREAM 1F FUGUAY-VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.007000	0.0	0.0	0.	301.000	0.0
J2	NPROF	IPL0T	PRFVS	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	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	
250.00	7.12	303.92	0.0	301.00	304.77	0.85	0.0	0.0	302.50	
1780.	312.	1452.	16.	172.	178.	15.	0.	0.	302.70	
0.0	1.82	8.14	1.05	0.085	0.045	0.085	0.0	296.80	1092.12	
0.006990	250.	250.	250.	0	0	6	0.0	193.33	1290.45	
300.00	7.25	304.35	0.0	0.0	305.11	0.76	0.33	0.01	302.80	
1780.	342.	1419.	19.	190.	182.	18.	0.	0.	303.00	
0.00	1.79	7.78	1.06	0.085	0.045	0.085	0.044	297.10	1091.34	
0.006193	50.	50.	50.	2	0	1	0.0	201.71	1293.05	

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
350.00	7.58	304.98	304.98	0.0	305.70	0.73	0.50	0.0	299.90	
1780.	1005.	419.	356.	270.	34.	64.	1.	0.	299.90	
0.00	3.72	12.27	4.24	0.085	0.045	0.085	0.044	297.40	1151.40	
0.018734	50.	50.	50.	30	9	1	0.0	210.13	1361.53	

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T1 STREAM 1F FUGUAY-VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.007000	0.0	0.0	0.	302.000	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

CCHV#	0.100	CEHV#	0.300	SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
250.00	7.47	304.27	0.0	250.00	7.47	304.27	0.0	302.00	305.15	0.88	0.0	0.0	302.50
2100.	460.	1610.	31.	2100.	460.	1610.	31.	222.	189.	25.	0.	0.	302.70
0.0	2.07	8.51	1.25	0.0	2.07	8.51	1.25	0.085	0.045	0.085	0.0	296.80	1090.04
0.007061	250.	250.	250.	0.007061	250.	250.	250.	0	0	4	0.0	207.36	1297.40
300.00	7.61	304.71	0.0	300.00	7.61	304.71	0.0	0.0	305.49	0.78	0.33	0.01	302.80
2100.	494.	1570.	36.	2100.	494.	1570.	36.	242.	193.	29.	1.	0.	303.00
0.00	2.04	8.12	1.25	0.00	2.04	8.12	1.25	0.085	0.045	0.085	0.044	297.10	1089.21
0.006229	50.	50.	50.	0.006229	50.	50.	50.	2	0	1	0.0	211.11	1300.32
350.00	7.98	305.38	0.0	350.00	7.98	305.38	0.0	0.0	305.97	0.59	0.46	0.02	299.90
2100.	1254.	416.	429.	2100.	1254.	416.	429.	334.	36.	107.	1.	0.	299.90
0.00	3.75	11.51	4.01	0.00	3.75	11.51	4.01	0.085	0.045	0.085	0.044	297.40	1148.96
0.015253	50.	50.	50.	0.015253	50.	50.	50.	3	0	1	0.0	225.91	1374.87

SPECIAL BRIDGE

5070, 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	5.00	0.01	19.60	0.0	297.40	297.40

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
572.76	305.97	0.00	1911.	190.	20.	25.	302.40	304.70

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T1 STREAM 1F FUGUAY-VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.007000	0.0	0.0	0.	303.000	0.0
J2	NPROF	IPL0T	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	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	
250.00	8.57	305.37	0.0	303.00	306.29	0.93	0.0	0.0	302.50	
3350.	1082.	2119.	149.	385.	223.	77.	0.	0.	302.70	
0.0	2.81	9.49	1.93	0.085	0.045	0.085	0.0	296.80	1083.50	
0.007047	250.	250.	250.	0	0	4	0.0	248.75	1332.25	
300.00	8.69	305.79	0.0	0.0	306.64	0.85	0.34	0.01	302.80	
3350.	1112.	2075.	162.	404.	227.	86.	1.	0.	303.00	
0.00	2.75	9.14	1.89	0.085	0.045	0.085	0.044	297.10	1082.74	
0.006379	50.	50.	50.	2	0	1	0.0	253.74	1336.48	
350.00	9.25	306.65	0.0	0.0	307.08	0.43	0.40	0.04	299.90	
3350.	2139.	443.	768.	537.	42.	213.	2.	1.	299.90	
0.01	3.98	10.44	3.61	0.085	0.045	0.085	0.044	297.40	1141.48	
0.010150	50.	50.	50.	3	0	1	0.0	275.21	1416.69	

SPECIAL BRIDGE

5070, 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	5.00	0.01	19.60	0.0	297.40	297.40

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	GWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
987.08	307.08	0.00	3197.	175.	20.	25.	302.40	304.70

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 GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
A	250.00	250.00	0.0	0.0	296.80	1100.00	302.91	131.55	303.67	140.51	0.0	0.0	7.16
	250.00	250.00	0.0	0.0	296.80	1780.00	303.92	212.90	304.77	198.33	0.0	0.0	8.14
	250.00	250.00	0.0	0.0	296.80	2100.00	304.27	249.92	305.15	207.36	0.0	0.0	8.51
	250.00	250.00	0.0	0.0	296.80	3350.00	305.37	399.06	306.29	248.75	0.0	0.0	9.49
	300.00	50.00	0.0	0.0	297.10	1100.00	303.31	137.76	304.01	145.34	0.0	0.0	6.93
	300.00	50.00	0.0	0.0	297.10	1780.00	304.35	226.18	305.11	201.71	0.0	0.0	7.78
	300.00	50.00	0.0	0.0	297.10	2100.00	304.71	266.09	305.49	211.11	0.0	0.0	8.12
	300.00	50.00	0.0	0.0	297.10	3350.00	305.79	419.42	306.64	253.74	0.0	0.0	9.14
	350.00	50.00	0.0	0.0	297.40	1100.00	304.45	88.82	305.08	191.94	0.0	0.0	10.53
	350.00	50.00	0.0	0.0	297.40	1780.00	304.98	130.05	305.70	210.13	0.0	0.0	12.27
	350.00	50.00	0.0	0.0	297.40	2100.00	305.38	170.04	305.97	225.91	0.0	0.0	11.51
	350.00	50.00	0.0	0.0	297.40	3350.00	306.65	332.52	307.08	275.21	0.0	0.0	10.44
	374.00	24.00	304.70	302.40	297.40	1100.00	306.62	329.92	306.67	274.54	0.0	0.0	3.45
	374.00	24.00	304.70	302.40	297.40	1780.00	307.24	432.95	307.32	298.88	0.0	0.0	4.46
	374.00	24.00	304.70	302.40	297.40	2100.00	307.49	478.78	307.58	308.63	0.0	0.0	4.85
	374.00	24.00	304.70	302.40	297.40	3350.00	308.38	668.81	308.51	334.66	0.0	0.0	5.88
	424.00	50.00	0.0	0.0	297.70	1100.00	306.64	461.17	306.72	263.50	0.0	0.0	2.79
	424.00	50.00	0.0	0.0	297.70	1780.00	307.27	577.79	307.40	288.07	0.0	0.0	3.80
	424.00	50.00	0.0	0.0	297.70	2100.00	307.51	628.88	307.67	297.85	0.0	0.0	4.20
	424.00	50.00	0.0	0.0	297.70	3350.00	308.41	835.70	308.65	330.35	0.0	0.0	5.39
B	474.00	50.00	0.0	0.0	298.00	1100.00	306.66	414.06	306.75	252.44	0.0	0.0	3.03
	474.00	50.00	0.0	0.0	298.00	1780.00	307.30	526.03	307.46	277.59	0.0	0.0	4.08
	474.00	50.00	0.0	0.0	298.00	2100.00	307.56	575.63	307.74	287.64	0.0	0.0	4.50
	474.00	50.00	0.0	0.0	298.00	3350.00	308.47	776.25	308.74	323.57	0.0	0.0	5.71
C	1450.00	976.00	0.0	0.0	305.20	1070.00	309.72	70.68	311.52	28.39	0.0	0.0	10.75
	1450.00	976.00	0.0	0.0	305.20	1740.00	311.86	171.40	313.07	168.10	0.0	0.0	9.35
	1450.00	976.00	0.0	0.0	305.20	2050.00	312.29	210.07	313.45	196.97	0.0	0.0	9.47
	1450.00	976.00	0.0	0.0	305.20	3275.00	313.40	343.40	314.57	234.22	0.0	0.0	10.41
	1500.00	50.00	0.0	0.0	305.50	1070.00	311.41	119.61	312.25	132.13	0.0	0.0	7.44
	1500.00	50.00	0.0	0.0	305.50	1740.00	312.79	230.19	313.49	202.69	0.0	0.0	7.51
	1500.00	50.00	0.0	0.0	305.50	2050.00	313.12	267.71	313.86	211.64	0.0	0.0	7.89
	1500.00	50.00	0.0	0.0	305.50	3275.00	314.14	409.58	314.98	251.35	0.0	0.0	9.10
	1550.00	50.00	0.0	0.0	304.90	1070.00	312.32	519.13	312.38	290.15	0.0	0.0	2.41
	1550.00	50.00	0.0	0.0	304.90	1740.00	313.54	793.92	313.61	384.08	0.0	0.0	2.86
	1550.00	50.00	0.0	0.0	304.90	2050.00	313.91	911.97	313.98	617.27	0.0	0.0	3.03
	1550.00	50.00	0.0	0.0	304.90	3275.00	315.04	1368.75	315.13	680.13	0.0	0.0	3.51
	1590.00	40.00	312.00	311.20	304.90	1070.00	312.71	592.53	312.76	358.81	0.0	0.0	2.19
	1590.00	40.00	312.00	311.20	304.90	1740.00	313.70	841.33	313.76	605.46	0.0	0.0	2.74
	1590.00	40.00	312.00	311.20	304.90	2050.00	314.02	949.17	314.09	623.17	0.0	0.0	2.93
	1590.00	40.00	312.00	311.20	304.90	3275.00	315.11	1402.76	315.20	684.19	0.0	0.0	3.44

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	
	1640.00	50.00	0.0	0.0	306.10	1070.00	312.32	138.89	312.98	146.19	0.0	0.0	6.70
	1640.00	50.00	0.0	0.0	306.10	1740.00	313.24	214.67	314.04	198.79	0.0	0.0	7.91
	1640.00	50.00	0.0	0.0	306.10	2050.00	313.51	243.77	314.39	205.93	0.0	0.0	8.47
	1640.00	50.00	0.0	0.0	306.10	3275.00	314.58	385.80	315.52	245.42	0.0	0.0	9.53
	1690.00	50.00	0.0	0.0	306.40	1070.00	312.62	138.69	313.28	146.04	0.0	0.0	6.71
D	1690.00	50.00	0.0	0.0	306.40	1740.00	313.59	219.07	314.36	199.92	0.0	0.0	7.79
	1690.00	50.00	0.0	0.0	306.40	2050.00	313.94	257.91	314.73	209.17	0.0	0.0	8.11
	1690.00	50.00	0.0	0.0	306.40	3275.00	315.02	407.05	315.87	250.73	0.0	0.0	9.14
	2850.00	1160.00	0.0	0.0	312.70	700.00	320.47	81.10	320.83	61.50	0.0	0.0	5.17
E	2850.00	1160.00	0.0	0.0	312.70	1170.00	321.69	138.12	322.10	106.04	0.0	0.0	5.82
	2850.00	1160.00	0.0	0.0	312.70	1390.00	322.08	163.16	322.51	120.44	0.0	0.0	6.09
	2850.00	1160.00	0.0	0.0	312.70	2060.00	323.12	250.36	323.55	161.68	0.0	0.0	6.45
	2900.00	50.00	0.0	0.0	314.10	700.00	320.69	47.80	321.58	44.32	0.0	0.0	7.71
	2900.00	50.00	0.0	0.0	314.10	1170.00	321.83	79.47	322.86	59.84	0.0	0.0	8.77
	2900.00	50.00	0.0	0.0	314.10	1390.00	322.18	93.15	323.31	72.86	0.0	0.0	9.29
	2900.00	50.00	0.0	0.0	314.10	2060.00	323.11	139.83	324.35	107.09	0.0	0.0	10.15
	2950.00	50.00	0.0	0.0	315.90	700.00	321.92	68.87	322.35	41.39	0.0	0.0	0.0
	2950.00	50.00	0.0	0.0	315.90	1170.00	323.22	117.30	323.63	146.59	0.0	0.0	0.0
	2950.00	50.00	0.0	0.0	315.90	1390.00	323.72	151.72	324.03	194.26	0.0	0.0	0.0
	2950.00	50.00	0.0	0.0	315.90	2060.00	324.75	268.35	324.96	270.78	0.0	0.0	0.0
	2992.00	42.00	322.40	321.40	315.90	700.00	323.11	111.51	323.28	131.88	0.0	0.0	0.0
	2992.00	42.00	322.40	321.40	315.90	1170.00	324.06	182.37	324.20	226.75	0.0	0.0	0.0
	2992.00	42.00	322.40	321.40	315.90	1390.00	324.36	216.49	324.51	249.31	0.0	0.0	0.0
	2992.00	42.00	322.40	321.40	315.90	2060.00	325.12	326.90	325.27	291.54	0.0	0.0	0.0
	3030.00	38.00	0.0	0.0	316.60	700.00	323.24	356.86	323.32	109.67	0.0	0.0	3.00
	3030.00	38.00	0.0	0.0	316.60	1170.00	324.11	527.08	324.25	127.12	0.0	0.0	3.73
	3030.00	38.00	0.0	0.0	316.60	1390.00	324.40	591.00	324.56	132.80	0.0	0.0	4.07
	3030.00	38.00	0.0	0.0	316.60	2060.00	325.11	770.67	325.35	147.04	0.0	0.0	4.94
	3068.00	38.00	0.0	0.0	317.30	700.00	323.21	246.45	323.36	94.99	0.0	0.0	3.97
F	3068.00	38.00	0.0	0.0	317.30	1170.00	324.08	381.76	324.30	112.49	0.0	0.0	4.76
	3068.00	38.00	0.0	0.0	317.30	1390.00	324.36	434.39	324.61	118.11	0.0	0.0	5.13
	3068.00	38.00	0.0	0.0	317.30	2060.00	325.06	582.54	325.42	132.07	0.0	0.0	6.10
	3106.00	38.00	0.0	0.0	318.60	700.00	322.90	85.29	323.66	67.58	0.0	0.0	9.11
	3106.00	38.00	0.0	0.0	318.60	1170.00	323.75	158.18	324.54	81.47	0.0	0.0	9.26
	3106.00	38.00	0.0	0.0	318.60	1390.00	324.01	184.78	324.88	85.58	0.0	0.0	9.72
	3106.00	38.00	0.0	0.0	318.60	2060.00	324.62	261.70	325.74	96.87	0.0	0.0	10.93
	3136.00	30.00	325.70	324.60	318.60	700.00	322.91	85.58	323.66	67.65	0.0	0.0	9.08
	3136.00	30.00	325.70	324.60	318.60	1170.00	323.76	158.29	324.54	81.49	0.0	0.0	9.25
	3136.00	30.00	325.70	324.60	318.60	1390.00	328.95	1364.33	328.99	182.73	0.0	0.0	2.03
	3136.00	30.00	325.70	324.60	318.60	2060.00	330.00	1802.11	330.06	203.77	0.0	0.0	2.43

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
3186.00	50.00	0.0	0.0	318.70	700.00	323.42	116.31	323.93	74.38	0.0	0.0	7.01
3186.00	50.00	0.0	0.0	318.70	1170.00	324.11	184.80	324.78	85.68	0.0	0.0	8.24
3186.00	50.00	0.0	0.0	318.70	1390.00	328.95	1333.20	329.00	181.73	0.0	0.0	2.21
3186.00	50.00	0.0	0.0	318.70	2060.00	330.00	1764.68	330.07	202.61	0.0	0.0	2.66
3236.00	50.00	0.0	0.0	318.80	700.00	323.68	130.37	324.09	76.95	0.0	0.0	6.42
3236.00	50.00	0.0	0.0	318.80	1170.00	324.41	207.70	324.97	88.95	0.0	0.0	7.55
3236.00	50.00	0.0	0.0	318.80	1390.00	328.96	1297.84	329.01	179.84	0.0	0.0	2.26
3236.00	50.00	0.0	0.0	318.80	2060.00	330.01	1723.33	330.08	200.75	0.0	0.0	2.71

G

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
250.000	1100.000	302.911	0.0	0.0	0.0	140.509	0.0	250.000
250.000	1780.000	303.922	1.011	0.0	0.0	198.334	-57.824	250.000
250.000	2100.000	304.269	0.347	0.0	0.0	207.359	-66.849	250.000
250.000	3350.000	305.367	1.098	0.0	0.0	248.755	-108.245	250.000
300.000	1100.000	303.307	0.0	0.396	0.0	145.339	0.0	50.000
300.000	1780.000	304.350	1.043	0.428	0.0	201.705	-56.366	50.000
300.000	2100.000	304.707	0.357	0.438	0.0	211.111	-65.772	50.000
300.000	3350.000	305.792	1.085	0.425	0.0	253.742	-108.403	50.000
350.000	1100.000	304.454	0.0	1.147	0.0	191.936	0.0	50.000
350.000	1780.000	304.977	0.522	0.627	0.0	210.127	-18.191	50.000
350.000	2100.000	305.380	0.404	0.674	0.0	225.912	-33.976	50.000
350.000	3350.000	306.648	1.268	0.856	0.0	275.207	-83.271	50.000
374.000	1100.000	306.623	0.0	2.169	0.0	274.543	0.0	24.000
374.000	1780.000	307.243	0.619	2.266	0.0	298.876	-24.333	24.000
374.000	2100.000	307.490	0.248	2.110	0.0	308.632	-34.089	24.000
374.000	3350.000	308.384	0.894	1.736	0.0	334.658	-60.115	24.000
424.000	1100.000	306.641	0.0	0.018	0.0	263.496	0.0	50.000
424.000	1780.000	307.266	0.625	0.023	0.0	288.067	-24.572	50.000
424.000	2100.000	307.515	0.249	0.024	0.0	297.850	-34.354	50.000
424.000	3350.000	308.408	0.893	0.024	0.0	330.349	-66.853	50.000
474.000	1100.000	306.661	0.0	0.020	0.0	252.445	0.0	50.000
474.000	1780.000	307.300	0.639	0.034	0.0	277.589	-25.145	50.000
474.000	2100.000	307.557	0.256	0.042	0.0	287.642	-35.197	50.000
474.000	3350.000	308.470	0.914	0.062	0.0	323.566	-71.122	50.000
1450.000	1070.000	309.724	0.0	3.063	0.0	28.390	0.0	976.000
1450.000	1740.000	311.863	2.139	4.563	0.0	168.104	-139.715	976.000
1450.000	2050.000	312.293	0.431	4.737	0.0	196.969	-168.579	976.000
1450.000	3275.000	313.397	1.104	4.927	0.0	234.218	-205.828	976.000
1500.000	1070.000	311.405	0.0	1.681	0.0	132.129	0.0	50.000
1500.000	1740.000	312.790	1.385	0.928	0.0	202.691	-70.562	50.000
1500.000	2050.000	313.123	0.333	0.830	0.0	211.640	-79.510	50.000
1500.000	3275.000	314.138	1.015	0.741	0.0	251.350	-119.221	50.000
1550.000	1070.000	312.323	0.0	0.918	0.0	290.148	0.0	50.000
1550.000	1740.000	313.542	1.219	0.751	0.0	584.076	-293.928	50.000
1550.000	2050.000	313.909	0.367	0.786	0.0	617.266	-327.118	50.000
1550.000	3275.000	315.039	1.130	0.901	0.0	680.127	-389.979	50.000
1590.000	1070.000	312.710	0.0	0.387	0.0	358.806	0.0	40.000
1590.000	1740.000	313.698	0.988	0.156	0.0	605.458	-246.652	40.000

1590.000	2050.000	314.016	0.318	0.107	0.0	623.172	-264.366	40.000
1590.000	3275.000	315.115	1.098	0.075	0.0	684.188	-525.382	40.000
1640.000	1070.000	312.324	0.0	-0.386	0.0	146.189	0.0	50.000
1640.000	1740.000	313.237	0.913	-0.461	0.0	198.791	-52.603	50.000
1640.000	2050.000	313.511	0.274	-0.505	0.0	205.935	-59.746	50.000
1640.000	3275.000	314.579	1.068	-0.536	0.0	245.419	-99.231	50.000
1690.000	1070.000	312.620	0.0	0.296	0.0	146.037	0.0	50.000
1690.000	1740.000	313.591	0.971	0.354	0.0	199.920	-53.883	50.000
1690.000	2050.000	313.941	0.350	0.430	0.0	209.172	-63.135	50.000
1690.000	3275.000	315.019	1.078	0.440	0.0	250.732	-104.695	50.000
2850.000	700.000	320.474	0.0	7.854	0.0	61.496	0.0	1160.000
2850.000	1170.000	321.688	1.214	8.097	0.0	106.036	-44.541	1160.000
2850.000	1390.000	322.078	0.390	8.137	0.0	120.437	-58.941	1160.000
2850.000	2060.000	323.117	1.039	8.099	0.0	161.683	-100.187	1160.000
2900.000	700.000	320.692	0.0	0.218	0.0	44.324	0.0	50.000
2900.000	1170.000	321.825	1.133	0.137	0.0	59.839	-15.515	50.000
2900.000	1390.000	322.176	0.351	0.098	0.0	72.865	-28.541	50.000
2900.000	2060.000	323.114	0.937	-0.004	0.0	107.087	-62.763	50.000
2950.000	700.000	321.919	0.0	1.227	0.0	41.390	0.0	50.000
2950.000	1170.000	323.220	1.301	1.395	0.0	146.591	-105.200	50.000
2950.000	1390.000	323.723	0.503	1.547	0.0	194.257	-152.867	50.000
2950.000	2060.000	324.750	1.027	1.637	0.0	270.784	-229.394	50.000
2992.000	700.000	323.112	0.0	1.193	0.0	131.879	0.0	42.000
2992.000	1170.000	324.060	0.948	0.840	0.0	226.754	-94.874	42.000
2992.000	1390.000	324.364	0.304	0.641	0.0	249.311	-117.432	42.000
2992.000	2060.000	325.117	0.753	0.367	0.0	291.545	-159.666	42.000
3030.000	700.000	323.236	0.0	0.125	0.0	109.672	0.0	38.000
3030.000	1170.000	324.112	0.876	0.052	0.0	127.119	-17.447	38.000
3030.000	1390.000	324.328	0.286	0.034	0.0	132.800	-23.128	38.000
3030.000	2060.000	325.113	0.715	-0.004	0.0	147.043	-37.371	38.000
3068.000	700.000	323.210	0.0	-0.027	0.0	94.987	0.0	38.000
3068.000	1170.000	324.077	0.868	-0.035	0.0	112.487	-17.500	38.000
3068.000	1390.000	324.360	0.282	-0.039	0.0	118.109	-23.122	38.000
3068.000	2060.000	325.061	0.701	-0.052	0.0	132.070	-37.083	38.000
3106.000	700.000	322.904	0.0	-0.305	0.0	67.580	0.0	38.000
3106.000	1170.000	323.754	0.850	-0.323	0.0	81.473	-13.894	38.000
3106.000	1390.000	324.006	0.252	-0.354	0.0	85.584	-18.005	38.000
3106.000	2060.000	324.617	0.612	-0.444	0.0	96.867	-29.287	38.000
3136.000	700.000	322.908	0.0	0.004	0.0	67.647	0.0	30.000
3136.000	1170.000	323.758	0.849	0.004	0.0	81.491	-13.844	30.000
3136.000	1390.000	328.952	5.194	4.946	0.0	182.733	-115.085	30.000
3136.000	2060.000	330.000	1.048	5.382	0.0	203.769	-136.122	30.000
3186.000	700.000	323.424	0.0	0.515	0.0	74.378	0.0	50.000
3186.000	1170.000	324.110	0.687	0.353	0.0	85.676	-11.298	50.000
3186.000	1390.000	328.954	4.844	0.003	0.0	181.728	-107.350	50.000
3186.000	2060.000	330.003	1.049	0.003	0.0	202.607	-128.229	50.000
3236.000	700.000	323.677	0.0	0.253	0.0	76.953	0.0	50.000
3236.000	1170.000	324.411	0.734	0.301	0.0	88.947	-11.994	50.000
3236.000	1390.000	328.958	4.548	0.004	0.0	179.844	-102.892	50.000
3236.000	2060.000	330.008	1.050	0.005	0.0	200.751	-123.798	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
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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 STREAM IF FUQUAY-VARINA, WAKE CO.
 T2 FIS. WAKE COUNTY JOB NO. 206855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG																											
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	304.300	0.0																											
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE																											
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0																											
J3	NC	QT	ET	X1	GR	GR	GR	GR	X1	GR	GR	GR	GR	SB	X1	X2	BT	BT	BT	BT	X1	GR	GR	GR	GR	X1	QT	X1	GR	GR	GR						
	1.000	0.085	5.000	0.0	250.000	327.300	312.200	310.900	312.800	300.000	350.000	321.300	304.500	303.200	298.400	318.300	0.900	374.000	0.0	16.000	1169.000	305.200	301.400	1400.000	424.000	327.300	312.200	310.900	312.800	474.000	5.000	1450.000	327.300	312.200	310.900	312.800	
	34.000	0.085	1100.000	0.0	19.000	1000.000	1157.000	1235.000	1300.000	0.0	23.000	1000.000	1209.000	1262.000	1311.000	1562.000	1.500	0.0	0.0	1000.000	305.200	0.0	1309.000	307.100	19.000	1000.000	1157.000	1235.000	1300.000	0.0	1070.000	19.000	1000.000	1157.000	1235.000	1300.000	
	3.000	0.045	1780.000	0.0	1235.000	321.900	311.300	306.000	315.800	0.0	1306.500	317.600	304.400	303.100	299.900	320.400	2.500	0.0	1.000	321.300	0.0	0.0	1300.000	305.000	0.0	1235.000	321.900	311.300	306.000	315.800	0.0	1740.000	1235.000	321.900	311.300	306.000	315.800
	4.000	0.100	2100.000	0.0	1266.000	1035.000	1177.000	1239.000	1400.000	0.0	1311.500	1075.000	1219.000	1297.000	1311.500	1589.000	0.0	302.400	0.0	0.0	1179.000	304.800	302.400	1500.000	1266.000	1035.000	1177.000	1239.000	1400.000	0.0	2050.000	1266.000	1035.000	1177.000	1239.000	1400.000	
	27.000	0.300	3350.000	0.0	250.000	311.000	310.600	305.200	326.100	50.000	50.000	314.100	303.500	299.900	303.300	321.300	5.000	24.000	0.0	1100.000	304.700	0.0	1311.000	313.300	50.000	311.000	310.600	305.200	326.100	50.000	3275.000	976.000	311.000	310.600	305.200	326.100	
	28.000	0.0	2100.000	-7.400	250.000	1100.000	1186.000	1247.000	1500.000	50.000	50.000	1097.000	1239.000	1306.500	1328.000	1592.000	0.010	24.000	0.0	316.200	0.0	1306.500	0.0	1592.000	50.000	1100.000	1186.000	1247.000	1500.000	50.000	2050.000	976.000	1100.000	1186.000	1247.000	1500.000	
	26.000	0.0	0.0	0.0	250.000	310.700	309.900	306.100	328.200	0.0	50.000	503.200	302.800	298.400	305.000	0.0	19.600	0.0	0.0	0.0	1189.000	305.000	301.400	1592.000	50.000	310.700	309.900	306.100	328.200	50.000	0.0	976.000	310.700	309.900	306.100	328.200	
	29.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1162.000	1248.000	1307.000	1362.000	0.0	0.0	0.0	1165.000	305.100	0.0	1311.500	321.300	0.0	0.0	1144.000	1189.000	1260.000	1527.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	-8.400	312.300	311.000	311.100	0.0	0.300	0.0	302.900	302.100	297.400	308.000	0.0	0.0	0.0	308.500	0.0	0.0	1307.000	0.0	0.0	0.0	312.300	311.000	311.100	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1206.000	1251.000	1309.000	1462.000	0.0	0.0	0.0	0.0	0.0	1199.000	305.000	299.900	0.0	0.0	1147.000	1200.000	1266.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SPEEDREAD (R) WITH EYE TRACK (R) PATENT PENDING

FLOOR BUSINESS FORMS, INC. FORM 2781 HS PRINTED IN U.S.A. 8/75

SPEED-READ WITH EYE TRACK - PATENT PENDING

GR	312.800	1300.000	315.800	1400.000	326.100	1500.000	328.200	1527.000	0.0	0.0
X1	1500.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
X1	1550.000	13.000	1480.000	1520.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	312.800	1000.000	313.600	1100.000	312.900	1200.000	312.300	1300.000	312.000	1400.000
GR	304.900	1480.000	305.800	1500.000	306.200	1520.000	313.600	1600.000	315.400	1700.000
GR	316.700	1800.000	316.500	1900.000	317.400	2000.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	40.000	0.010	205.000	0.0	0.0	0.0
X1	1590.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	311.200	0.0	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	312.800	0.0	1100.000	313.600	0.0	1200.000	312.900	0.0
BT	1300.000	312.300	0.0	1400.000	312.000	0.0	1480.000	312.800	310.400	1520.000
BT	313.800	311.200	1600.000	313.600	0.0	1700.000	315.400	0.0	1800.000	316.700
BT	0.0	1900.000	316.500	0.0	2000.000	317.400	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	1640.000	19.000	1235.000	1266.000	50.000	50.000	50.000	0.0	0.900	0.0
GR	327.300	1000.000	321.900	1035.000	311.000	1100.000	310.700	1144.000	312.300	1147.000
GR	312.200	1157.000	311.300	1177.000	310.600	1186.000	309.900	1189.000	311.000	1200.000
GR	310.900	1235.000	306.000	1239.000	305.200	1247.000	306.100	1260.000	311.100	1266.000
GR	312.800	1300.000	315.800	1400.000	326.100	1500.000	328.200	1527.000	0.0	0.0
X1	1690.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
QT	5.000	700.000	1170.000	1390.000	2060.000	1390.000	0.0	0.0	0.0	0.0
NC	0.065	0.065	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0
X1	2850.000	12.000	1361.000	1382.000	1160.000	1160.000	1160.000	0.0	0.0	0.0
GR	337.500	1000.000	331.100	1100.000	325.500	1200.000	322.900	1300.000	320.400	1361.000
GR	313.200	1366.000	312.700	1370.000	313.300	1373.000	318.600	1382.000	318.800	1400.000
GR	326.900	1500.000	337.200	1603.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	2900.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.400	0.0
X1	2950.000	24.000	1365.700	1386.100	50.000	50.000	50.000	0.0	0.0	0.0
GR	337.400	1000.000	330.900	1100.000	325.700	1200.000	323.200	1300.000	322.600	1355.000
GR	318.700	1365.700	316.700	1366.500	315.900	1368.500	316.700	1370.500	318.700	1371.200
GR	318.700	1373.200	316.700	1374.000	315.900	1376.000	316.700	1378.000	318.700	1378.700
GR	318.700	1380.700	316.700	1381.500	315.900	1383.400	316.700	1385.500	318.700	1386.200
GR	322.400	1400.000	324.200	1500.000	330.400	1600.000	337.400	1697.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	16.500	0.010	71.300	0.0	0.0	0.0
X1	2992.000	0.0	0.0	0.0	42.000	42.000	42.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	321.400	0.0	0.0	0.0	0.0	0.0	0.0
BT	23.000	1000.000	337.400	0.0	1100.000	330.900	0.0	1200.000	325.700	0.0
BT	1300.000	323.200	0.0	1365.700	322.500	318.700	1366.500	322.500	320.500	1368.500
BT	322.500	321.400	1370.500	322.500	320.500	1371.200	322.500	318.700	1373.200	322.400
BT	318.700	1374.000	322.400	320.500	1376.000	322.400	321.400	1378.000	322.400	320.500
BT	1378.700	322.400	1380.700	322.400	1380.700	322.400	1381.500	322.400	320.500	1383.400
BT	322.400	321.400	1385.500	322.400	320.500	1386.200	322.400	318.700	1400.000	322.400
BT	0.0	1500.000	324.200	0.0	1600.000	330.400	0.0	1697.000	337.400	0.0
NC	0.030	0.030	0.030	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	3030.000	11.000	1118.000	1131.000	38.000	38.000	38.000	0.0	-1.400	0.0
GR	334.800	1000.000	323.600	1100.000	320.000	1118.000	318.900	1120.000	318.000	1122.000
GR	319.000	1127.000	319.900	1131.000	322.300	1174.000	324.600	1200.000	333.700	1300.000
GR	334.800	1315.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	3068.000	0.0	0.0	0.0	38.000	38.000	38.000	0.0	0.700	0.0
X1	3106.000	13.000	1091.700	1098.400	38.000	38.000	38.000	0.0	0.0	0.0
GR	335.400	973.000	325.700	1061.000	324.200	1073.000	320.600	1091.000	319.500	1091.700
GR	318.600	1091.700	318.600	1098.400	319.600	1098.400	320.500	1104.000	322.900	1147.000
GR	325.200	1173.000	334.300	1273.000	335.400	1288.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	6.700	0.010	40.200	0.0	0.0	0.0

MOORE BUSINESS FORMS, INC. FORM 432-BT 1-55 PRINTED IN U.S.A.

SPREADSHEET WITH EYE TRACE PATENT PENDING

MOORE BUSINESS FORMS INC. FORM 4381 1/65 PATENT PENDING U.S.A. 810

					50.000	30.000	30.000	0.0	0.0	0.0
					0.0	0.0	0.0	0.0	0.0	0.0
					1061.000	325.700	0.0	1091.700	326.100	324.600
					326.500	0.0	1173.000	331.300	0.0	1200.000
					0.0	0.0	0.0	0.0	0.0	0.0
					50.000	50.000	50.000	0.0	0.700	0.0
					320.000	1118.000	318.900	1120.000	318.000	1122.000
					322.300	1174.000	324.600	1200.000	333.700	1300.000
					0.0	0.0	0.0	0.0	0.0	0.0
					50.000	50.000	50.000	0.0	0.100	0.0
					0.0	0.0	0.0	0.0	0.0	0.0

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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 STREAM 1F FUQUAY-VARINA, WAKE CO.
 T2 FIS. WAKE COUNTY JOB NO. 206855
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.		0.	0.	0.0	0.0	0.0	0.	305.300	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 253.36 WSEL= 304.30 ENC Q1= 253.36 WSEL= 305.00 RATIO= 0.0
 NAT Q1= 344. RATIOS LOB,CH,ROB= 0.2938 0.6727 0.0335 WSEL= 305.00
 SECNO DEPTH CWSEL CRIWS WSELK EG HV HL GLOSS BANK ELEV
 Q QLOB QCH QROB ALOB XNL XNCH XNR WTN ELMIN LEFT/RIGHT
 TIME VLOB VCH VROB XNL XNCH XNR WTN ELMIN SS?A
 SLOPE XLOBL XLCH XLOCR ITRIAL IDC ICONT CORAR TOPWID ENDST

3470 ENCROACHMENT STATIONS= 1209.5 1273.0 TYPE= 4 TARGET= 0.263
 250.00 8.50 305.30 0.0 304.30 306.31 1.01 0.0 0.0 302.50
 2100. 183. 1877. 40. 70. 221. 17. 0. 0. 302.70
 0.0 2.60 8.49 2.38 0.085 0.045 0.085 0.0 296.80 1209.54
 0.005706 250. 250. 250. 0 0 1 0.0 63.42 1272.96

2800 NAT Q1= 266.23 WSEL= 304.71 ENC Q1= 266.23 WSEL= 305.41 RATIO= 0.0
 NAT Q1= 360. RATIOS LOB,CH,ROB= 0.3031 0.6602 0.0367 WSEL= 305.41
 3470 ENCROACHMENT STATIONS= 1204.4 1274.5 TYPE= 4 TARGET= 0.260
 300.00 6.57 305.67 0.0 304.71 306.59 0.93 0.27 0.01 302.80
 2100. 219. 1833. 48. 86. 223. 21. 0. 0. 303.00
 0.00 2.54 8.22 2.31 0.085 0.045 0.085 0.044 297.10 1204.40
 0.005277 50. 50. 50. 2 0 1 0.0 70.07 1274.46

2800 NAT Q1= 170.22 WSEL= 305.38 ENC Q1= 170.22 WSEL= 306.08 RATIO= 0.0
 NAT Q1= 253. RATIOS LOB,CH,ROB= 0.6277 0.1555 0.2167 WSEL= 306.08
 3470 ENCROACHMENT STATIONS= 1220.5 1327.5 TYPE= 4 TARGET= 0.326
 350.00 8.91 306.31 0.0 305.38 307.00 0.70 0.39 0.02 299.90
 2100. 1225. 460. 415. 281. 41. 76. 1. 0. 299.90
 0.00 4.36 11.27 5.45 0.085 0.045 0.085 0.044 297.40 1220.46
 0.012473 50. 50. 50. 2 0 1 0.0 107.03 1327.49

SPECIAL BRIDGE
 5070 VARIABLE FLCHU OR FLCHD ON CARD SB NOT SPECIFIED

SPECIAL BRIDGE WITH EYE TRACK (B) PATENT PENDING

MOORE BUSINESS FORMS, INC. FORM 671 T 15 PRINTED IN U.S.A.

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

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	250.00	0.0	0.0	296.80	2100.00	304.30	253.36	305.15	208.15	0.0	0.0	8.42
250.00	250.00	0.0	0.0	296.80	2100.00	305.30	278.01	306.31	63.42	1209.54	1272.96	8.49
300.00	50.00	0.0	0.0	297.10	2100.00	304.71	266.23	305.49	211.16	0.0	0.0	8.11
300.00	50.00	0.0	0.0	297.10	2100.00	305.67	289.08	306.59	70.07	1204.40	1274.46	8.22
350.00	50.00	0.0	0.0	297.40	2100.00	305.38	170.22	305.97	225.98	0.0	0.0	11.50
350.00	50.00	0.0	0.0	297.40	2100.00	306.31	188.03	307.00	107.03	1220.46	1327.49	11.27
374.00	24.00	0.0	0.0	297.40	2100.00	307.49	478.78	307.58	308.63	0.0	0.0	4.85
374.00	24.00	0.0	0.0	297.40	2100.00	308.42	514.42	308.52	170.16	1191.12	1361.28	4.80
424.00	50.00	0.0	0.0	297.70	2100.00	307.51	628.88	307.67	297.85	0.0	0.0	4.20
424.00	50.00	0.0	0.0	297.70	2100.00	308.43	664.94	308.61	156.41	1142.82	1299.22	4.25
474.00	50.00	0.0	0.0	298.00	2100.00	307.56	575.63	307.74	287.64	0.0	0.0	4.50
474.00	50.00	0.0	0.0	298.00	2100.00	308.46	609.14	308.67	149.43	1147.04	1296.47	4.56
1450.00	976.00	0.0	0.0	305.20	2050.00	312.29	210.07	313.45	196.97	0.0	0.0	9.47
1450.00	976.00	0.0	0.0	305.20	2050.00	311.71	144.53	314.26	33.60	1232.95	1266.55	12.83
1500.00	50.00	0.0	0.0	305.50	2050.00	313.12	267.71	313.86	211.64	0.0	0.0	7.89
1500.00	50.00	0.0	0.0	305.50	2050.00	313.98	283.15	314.89	70.64	1203.96	1274.60	8.13
1550.00	50.00	0.0	0.0	304.90	2050.00	313.91	911.97	313.98	617.27	0.0	0.0	3.03
1550.00	50.00	0.0	0.0	304.90	2050.00	314.94	1050.44	315.02	171.83	1397.19	1569.03	2.84
1590.00	40.00	0.0	0.0	304.90	2050.00	314.02	949.17	314.09	623.17	0.0	0.0	2.93
1590.00	40.00	0.0	0.0	304.90	2050.00	315.05	1092.32	315.12	187.00	1382.92	1569.92	2.75
1640.00	50.00	0.0	0.0	306.10	2050.00	313.51	243.77	314.39	205.93	0.0	0.0	8.47
1640.00	50.00	0.0	0.0	306.10	2050.00	314.06	218.15	315.61	31.58	1234.54	1266.13	10.02
1690.00	50.00	0.0	0.0	306.40	2050.00	313.94	257.91	314.73	209.17	0.0	0.0	8.11
1690.00	50.00	0.0	0.0	306.40	2050.00	314.75	246.83	316.03	39.26	1228.57	1267.83	9.20
2850.00	1160.00	0.0	0.0	312.70	1390.00	322.08	163.16	322.51	120.44	0.0	0.0	6.09
2850.00	1160.00	0.0	0.0	312.70	1390.00	322.91	189.76	323.32	68.14	1331.59	1399.73	5.65
2900.00	50.00	0.0	0.0	314.10	1390.00	322.18	93.15	323.31	72.86	0.0	0.0	9.29
2900.00	50.00	0.0	0.0	314.10	1390.00	322.72	95.41	324.08	34.38	1355.08	1389.47	9.64
2950.00	50.00	0.0	0.0	315.90	1390.00	323.72	151.72	324.03	194.26	0.0	0.0	0.0
2950.00	50.00	0.0	0.0	315.90	1390.00	323.54	92.66	325.29	20.23	1365.70	1385.93	0.0
2992.00	42.00	0.0	0.0	315.90	1390.00	324.36	216.49	324.51	249.31	0.0	0.0	0.0
2992.00	42.00	0.0	0.0	315.90	1390.00	324.18	125.54	325.19	26.19	1365.70	1391.89	0.0
3030.00	38.00	0.0	0.0	316.60	1390.00	324.40	591.00	324.56	132.80	0.0	0.0	4.07
3030.00	38.00	0.0	0.0	316.60	1390.00	325.13	645.37	325.32	70.73	1101.56	1172.29	3.99
3068.00	38.00	0.0	0.0	317.30	1390.00	324.36	434.39	324.61	118.11	0.0	0.0	5.13
3068.00	38.00	0.0	0.0	317.30	1390.00	325.09	493.85	325.37	65.05	1103.34	1168.39	4.87

SPLITHEAD, E. WITH EYE TRACK © PATENT PENDING

ADORE BUSINESS FORMS, INC. FORM #171 1/85 PRINCETON, U.S.A. 08542

SECTION NUMBER	CHANNEL LENGTH	MIN EL. OF ROADWAY	OF	MAX EL. OF LOW CHORD	MIN EL. OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
3106.00	38.00	0.0		0.0	318.60	1390.00	324.01	184.78	324.88	35.58	0.0	0.0	9.72
3106.00	38.00	0.0		0.0	318.60	1390.00	324.82	248.15	325.56	51.82	1079.22	1131.04	7.95
3136.00	30.00	0.0		0.0	318.60	1390.00	328.95	1364.33	328.99	182.73	0.0	0.0	2.03
3136.00	30.00	0.0		0.0	318.60	1390.00	329.77	1481.34	329.82	103.32	1061.43	1164.75	1.97
3186.00	50.00	0.0		0.0	318.70	1390.00	328.95	1333.20	329.00	181.73	0.0	0.0	2.21
3186.00	50.00	0.0		0.0	318.70	1390.00	329.77	1510.54	329.82	115.60	1075.89	1191.45	2.06
3236.00	50.00	0.0		0.0	318.80	1390.00	328.96	1297.84	329.01	179.84	0.0	0.0	2.26
3236.00	50.00	0.0		0.0	318.80	1390.00	329.78	1471.07	329.83	114.00	1076.94	1190.95	2.11

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A 250.000	2100.000	304.300	0.0	0.0	0.0	208.145	0.0	250.000
250.000	2100.000	305.300	1.000	0.0	0.0	63.418	144.728	250.000
300.000	2100.000	304.709	0.0	0.410	0.0	211.158	0.0	50.000
300.000	2100.000	305.666	0.957	0.366	0.0	70.067	141.091	50.000
350.000	2100.000	305.383	0.0	0.673	0.0	225.982	0.0	50.000
350.000	2100.000	306.308	0.925	0.642	0.0	107.029	118.952	50.000
374.000	2100.000	307.490	0.0	2.108	0.0	308.632	0.0	24.000
374.000	2100.000	308.415	0.925	2.108	0.0	170.160	138.472	24.000
424.000	2100.000	307.515	0.0	0.024	0.0	297.850	0.0	50.000
424.000	2100.000	308.427	0.912	0.011	0.0	156.407	141.443	50.000
B 474.000	2100.000	307.557	0.0	0.042	0.0	287.642	0.0	50.000
474.000	2100.000	308.458	0.902	0.031	0.0	149.431	138.211	50.000
C 1450.000	2050.000	312.293	0.0	4.737	0.0	196.969	0.0	976.000
1450.000	2050.000	311.714	-0.579	3.256	0.0	33.596	163.373	976.000
1500.000	2050.000	313.123	0.0	0.830	0.0	211.640	0.0	50.000
1500.000	2050.000	313.979	0.855	2.264	0.0	70.642	140.998	50.000
1550.000	2050.000	313.909	0.0	0.786	0.0	617.266	0.0	50.000
1550.000	2050.000	314.942	1.033	0.964	0.0	171.830	445.436	50.000
1590.000	2050.000	314.016	0.0	0.107	0.0	623.172	0.0	40.000
1590.000	2050.000	315.049	1.033	0.107	0.0	187.002	436.169	40.000
1640.000	2050.000	313.511	0.0	-0.505	0.0	205.935	0.0	50.000
1640.000	2050.000	314.057	0.546	-0.992	0.0	31.585	174.350	50.000
D 1690.000	2050.000	313.941	0.0	0.430	0.0	209.172	0.0	50.000
1690.000	2050.000	314.749	0.808	0.692	0.0	39.258	169.914	50.000
E 2850.000	1390.000	322.078	0.0	8.137	0.0	120.437	0.0	1160.000
2850.000	1390.000	322.911	0.833	8.162	0.0	68.143	52.294	1160.000
2900.000	1390.000	322.176	0.0	-0.098	0.0	72.865	0.0	50.000
2900.000	1390.000	322.723	0.546	-0.188	0.0	34.381	38.484	50.000
2950.000	1390.000	323.723	0.0	1.547	0.0	194.257	0.0	50.000
2950.000	1390.000	323.541	-0.182	0.819	0.0	20.226	174.051	50.000
2992.000	1390.000	324.364	0.0	0.641	0.0	249.311	0.0	42.000
2992.000	1390.000	324.182	-0.182	0.641	0.0	26.185	223.126	42.000

