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

T1: ROWAN CO. BASIN E. STREAM 1 GRANTS CREEK PROFILE ONE 500 YEAR ONLY
 T2: FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3: 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.003000	0.0	-1.0	0.	626,200	0.0
J2	UPROF	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	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	1.000	30600.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
X1	40.000	15.000	500.000	556.000	4000.000	4000.000	4000.000	4000.000	0.0	0.0
GR	640.000	0.0	630.000	140.000	620.000	420.000	624.500	500.000	618.000	506.000
GR	618.000	550.000	624.700	556.000	620.000	566.000	620.000	646.000	630.000	706.000
GR	630.000	766.000	615.000	1115.000	620.000	2065.000	630.000	2175.000	640.000	2245.000
X1	50.000	12.000	350.000	406.000	1000.000	1000.000	1000.000	1000.000	0.0	0.0
GR	640.000	0.0	630.000	120.000	620.000	340.000	624.500	350.000	619.000	356.000
GR	619.000	400.000	625.700	406.000	620.000	506.000	619.000	1256.000	620.000	2000.000

PAGE 1

// JOB
0000

6000

6000

0000

V2 M11 ACTUAL 32K CONFIG 32K

// XEQ BRJIN

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T1 POWAN CO. BASIN E STREAM 1 GRANTS CREEK PROFILE ONE 500 YEAR ONLY
 T2 FLOODPLAIN STUDY AT POWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	HINV	TOIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.003000	0.0	-1.0	0.	626.200	0.0
J2	IPROF	IMOT	RRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACC
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	55.000	50.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
JT	1.000	40600.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	3.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
K1	40.000	15.000	500.000	556.000	4000.000	4000.000	4000.000	4000.000	0.0	0.0
GR	540.000	0.0	630.000	140.000	620.000	420.000	624.500	500.000	618.000	506.000
SR	518.000	550.000	624.700	556.000	620.000	566.000	620.000	646.000	630.000	706.000
BR	630.000	756.000	615.000	1118.000	620.000	2065.000	630.000	2175.000	640.000	2245.000
K1	50.000	12.000	350.000	406.000	1000.000	1000.000	1000.000	1000.000	0.0	0.0
GR	540.000	0.0	630.000	120.000	620.000	340.000	624.500	350.000	619.000	356.000
SR	610.000	400.000	625.700	406.000	620.000	506.000	619.000	1256.000	620.000	2000.000
BR	630.000	2300.000	640.000	2600.000	0.0	0.0	0.0	0.0	0.0	0.0
K1	5000.000	25.000	350.000	406.000	800.000	800.000	800.000	800.000	0.0	0.0
GR	640.700	0.0	606.300	42.000	634.500	115.000	634.700	180.000	630.400	195.000
SR	628.400	219.000	627.800	252.000	625.900	265.000	626.600	350.000	620.500	356.000
BR	620.500	400.000	627.200	406.000	626.200	442.000	627.500	509.000	626.300	570.000
GR	627.500	580.000	627.200	640.000	626.200	650.000	625.200	835.000	623.700	1100.000
SR	620.200	1130.000	624.200	1250.000	626.300	1400.000	627.700	1500.000	634.700	1585.000
JC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
K1	72.550	0.0	0.0	0.0	1455.000	1455.000	1455.000	1455.000	0.0	1.250
K1	6760.000	24.000	594.000	653.000	1455.000	1455.000	1455.000	1455.000	0.0	0.0
GR	640.900	50.000	639.600	105.000	635.200	120.000	634.400	150.000	631.900	235.000
BR	630.100	240.000	630.100	330.000	629.500	400.000	631.600	508.900	630.500	555.000

GR	631,500	594,000	623,500	600,000	623,000	637,000	631,200	653,000	632,500	669,000
GR	631,200	695,000	631,600	845,000	630,300	1105,000	629,400	1323,000	628,300	1352,000
GR	630,400	1375,000	629,100	1555,000	635,800	1675,000	647,800	1736,000	0.0	0.0
X1	8845,000	13,000	543,000	673,000	85,000	85,000	85,000	0.0	0.0	0.0
GR	644,800	0.0	633,300	224,000	631,500	245,000	631,700	422,000	633,000	543,000
GR	630,200	543,000	623,000	570,000	623,900	645,000	630,200	673,000	633,000	573,000
GR	632,200	871,000	639,700	1063,000	647,700	1220,000	0.0	0.0	0.0	0.0
GR	1,250	1,500	2,500	0.0	130,000	6,200	607,000	0.0	0.0	0.0
X1	8876,000	0.0	0.0	0.0	31,000	31,000	31,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	630,200	0.0	0.0	0.0	0.0	0.0	0.0
BT	3,000	0.0	644,800	0.0	224,000	633,000	0.0	245,000	631,500	0.0
BT	422,000	631,700	0.0	543,000	633,000	630,200	673,000	633,000	630,200	871,000
BT	632,200	0.0	1063,000	639,700	0.0	1220,000	647,700	0.0	0.0	0.0
NC	0.060	0.060	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	8960,000	19,000	703,000	750,000	84,000	84,000	84,000	0.0	0.0	0.0
GR	644,200	0.0	633,600	155,000	627,300	327,000	626,700	460,000	627,800	495,000
GR	627,100	555,000	627,900	595,000	627,600	612,000	630,100	652,000	629,900	692,000
GR	629,100	703,000	624,200	706,000	624,500	745,000	629,800	750,000	630,800	770,000
GR	630,100	780,000	630,800	809,000	631,800	815,000	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	10400,000	23,000	1060,000	1135,000	1440,000	1440,000	1440,000	0.0	0.0	0.0
GR	643,700	0.0	641,200	117,000	642,000	139,000	630,200	400,000	629,300	480,000
GR	629,300	532,000	628,600	573,000	631,300	710,000	631,500	840,000	630,300	937,000
GR	628,600	955,000	627,900	985,000	630,400	1062,000	629,900	1080,000	622,000	1086,000
GR	624,400	1130,000	630,300	1135,000	628,500	1160,000	629,300	1260,000	631,000	1310,000
GR	630,700	1368,000	634,800	1441,000	639,800	1500,000	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	11950,000	16,000	1059,000	1105,000	1550,000	1550,000	1550,000	0.0	0.0	0.0
GR	651,300	0.0	645,200	150,000	641,100	235,000	633,700	369,000	634,500	379,000
GR	633,000	950,000	634,900	1048,000	634,000	1059,000	625,200	1060,000	626,500	1090,000
GR	634,600	1105,000	637,000	1175,000	638,900	1190,000	642,100	1240,000	643,300	1345,000
GR	644,100	1473,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	13400,000	12,000	720,000	775,000	1450,000	1450,000	1450,000	0.0	-2.194	0.0
GR	649,000	0.0	633,000	600,000	634,000	720,000	632,300	725,000	632,100	730,000
GR	624,800	752,000	625,700	770,000	634,000	775,000	638,800	802,000	636,000	815,000
GR	635,600	900,000	649,000	1000,000	0.0	0.0	0.0	0.0	0.0	0.0
X1	13450,000	0.0	0.0	0.0	50,000	50,000	50,000	1,000	0.500	0.0
X1	13500,000	0.0	0.0	0.0	50,000	50,000	50,000	1,000	0.500	0.0
X1	13430,000	0.0	0.0	0.0	30,000	30,000	30,000	1,000	0.400	0.0
X1	13555,000	0.0	0.0	0.0	25,000	25,000	25,000	1,000	0.300	0.0
X1	13580,000	12,000	720,000	800,000	25,000	25,000	25,000	0.0	-2.194	0.0
GR	650,000	0.0	644,500	350,000	636,000	720,000	634,200	720,000	633,500	740,000
GR	627,000	760,000	627,000	790,000	628,500	800,000	636,000	800,000	638,000	900,000

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 ERROR CORR - 01
 MODIFICATION - 50,51,52

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

USE FOR 500yr REACH FROM MOUTH -- SEVENTH STREET

500 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECH0	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	FNOST	AREA	DIFWSP
40.000	4000.00	0.0	0.0	30600.00	615.00	624.84	0.0	4.64	204.44	2118.26	9591.74	0.0
50.000	1000.00	0.0	0.0	30600.00	619.00	626.94	0.0	3.64	187.30	2208.23	13233.79	0.0
A 5800.000	800.00	0.0	0.0	30600.00	620.50	627.14	0.0	14.31	210.26	1517.34	4713.12	0.0
72.550	1455.00	0.0	0.0	30600.00	621.75	635.26	0.0	5.21	182.42	1576.56	11318.94	0.0
B 8760.000	1455.00	0.0	0.0	30600.00	623.00	637.58	0.0	5.99	111.86	1684.08	10863.96	0.0
8845.000	85.00	0.0	0.0	30600.00	623.90	636.85	0.0	12.61	154.76	990.16	4322.18	0.0
* 8876.000	31.00	631.50	630.20	30600.00	623.90	636.85	0.0	12.60	154.74	990.19	4323.23	0.0
C 8960.000	84.00	0.0	0.0	30600.00	624.20	638.61	0.0	7.27	81.67	815.00	6850.80	0.0
10400.000	1440.00	0.0	0.0	30600.00	622.00	640.78	0.0	4.75	165.92	1500.00	12835.96	0.0
11950.000	1550.00	0.0	0.0	30600.00	625.20	642.73	0.0	7.29	201.18	1295.26	8296.46	0.0
13400.000	1450.00	0.0	0.0	30600.00	622.61	645.04	0.0	5.67	66.13	1507.89	11419.88	0.0
13450.000	50.00	0.0	0.0	30600.00	623.11	645.08	0.0	6.02	83.47	1483.73	10762.73	0.0
13500.000	50.00	0.0	0.0	30600.00	623.61	645.12	0.0	6.38	100.37	1460.18	10140.65	0.0
13530.000	30.00	0.0	0.0	30600.00	624.01	645.15	0.0	6.71	114.38	1440.67	9639.10	0.0
13555.000	25.00	0.0	0.0	30600.00	624.31	645.17	0.0	6.87	124.71	1426.28	9277.13	0.0
13580.000	25.00	0.0	0.0	30600.00	624.81	644.95	0.0	9.20	181.92	1218.08	6293.37	0.0
* 13620.000	40.00	640.60	639.10	30600.00	625.21	645.57	0.0	8.89	167.14	1232.86	6537.43	0.0
13644.000	24.00	0.0	0.0	30600.00	624.81	645.85	0.0	7.66	16.39	591.39	6670.46	0.0
13669.000	25.00	0.0	0.0	30600.00	624.91	645.89	0.0	7.69	17.00	591.07	6641.23	0.0
13700.000	31.00	0.0	0.0	30600.00	625.11	645.94	0.0	7.79	18.83	590.11	6554.13	0.0

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
14194.000	494.00	0.0	0.0	30600.00	625.21	646.83	0.0	7.28	9.24	595.14	7014.62	0.0
14700.000	506.00	0.0	0.0	30600.00	625.61	647.39	0.0	2.10	0.0	1980.00	24010.33	0.0
15400.000	700.00	0.0	0.0	30600.00	626.21	647.52	0.0	3.14	8.65	1622.53	16847.31	0.0

SUMMARY OF ERRORS

CAUTION SECNO= 8876.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=13620.000 PROFILE= 1 HYDRAULIC JUMP D.S.

HCC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORE - 01
MODIFICATION - 50,51,52

 PRINT RELEASE DATED NOV 76 UPDATED FEB 1977

FORM 308F - 11

IDENTIFICATION - 50,51,52

11 DRAINAGE CHANNEL PROFILE 2
 12 FLOODPLAIN STUDY AT HOWAR & DAVIDSON COUNTIES H-G JOB NO. 6918
 13 12 YEAR FLOOD WATER SURFACE PROFILE

1	2	3	4	5	6	7	8	9	10	11	12
STATION	CH	HW	W	STRT	METRIC	HVINS	Q	WSEL	FO		
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	674.200	0.0		
14	15	16	17	18	19	20	21	22	23	24	25
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
26	27	28	29	30	31	32	33	34	35	36	37
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
38	39	40	41	42	43	44	45	46	47	48	49
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
50	51	52	53	54	55	56	57	58	59	60	61
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
62	63	64	65	66	67	68	69	70	71	72	73
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
74	75	76	77	78	79	80	81	82	83	84	85
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
86	87	88	89	90	91	92	93	94	95	96	97
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
98	99	100	101	102	103	104	105	106	107	108	109
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
110	111	112	113	114	115	116	117	118	119	120	121
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
122	123	124	125	126	127	128	129	130	131	132	133
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
134	135	136	137	138	139	140	141	142	143	144	145
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
146	147	148	149	150	151	152	153	154	155	156	157
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
158	159	160	161	162	163	164	165	166	167	168	169
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
170	171	172	173	174	175	176	177	178	179	180	181
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
182	183	184	185	186	187	188	189	190	191	192	193
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
194	195	196	197	198	199	200	201	202	203	204	205
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
206	207	208	209	210	211	212	213	214	215	216	217
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
218	219	220	221	222	223	224	225	226	227	228	229
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
230	231	232	233	234	235	236	237	238	239	240	241
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
242	243	244	245	246	247	248	249	250	251	252	253
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
254	255	256	257	258	259	260	261	262	263	264	265
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
266	267	268	269	270	271	272	273	274	275	276	277
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
278	279	280	281	282	283	284	285	286	287	288	289
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
290	291	292	293	294	295	296	297	298	299	300	301
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
302	303	304	305	306	307	308	309	310	311	312	313
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
314	315	316	317	318	319	320	321	322	323	324	325
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
326	327	328	329	330	331	332	333	334	335	336	337
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
338	339	340	341	342	343	344	345	346	347	348	349
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
350	351	352	353	354	355	356	357	358	359	360	361
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
362	363	364	365	366	367	368	369	370	371	372	373
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
374	375	376	377	378	379	380	381	382	383	384	385
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
386	387	388	389	390	391	392	393	394	395	396	397
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
398	399	400	401	402	403	404	405	406	407	408	409
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
410	411	412	413	414	415	416	417	418	419	420	421
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
422	423	424	425	426	427	428	429	430	431	432	433
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
434	435	436	437	438	439	440	441	442	443	444	445
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000	0.0	0.0		
446	447	448	449	450	451	452	453	454	455	456	457
CH	HW	PREVS	XSECV	XSECH	FW	ALLOC	IBW	CHNIM	ITRACE		
1.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.000				

X1	45375.000	16.000	701.000	830.000	25.000	25.000	25.000	0.0	-2.194	0.0
SP	638.000	30.000	480.000	290.000	669.000	700.000	668.700	781.000	662.000	795.000
GP	660.700	603.000	660.700	820.000	671.500	830.000	674.200	843.000	671.000	869.000
SR	676.200	900.000	669.700	960.000	670.400	1000.000	670.000	1100.000	680.000	1230.000
ST	690.000	1270.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	15400.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
SP	0.000	0.000	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ST	5.000	5040.000	7623.000	9529.000	24000.000	9529.000	0.0	0.0	0.0	0.0

X1	47497.000	22.000	235.000	255.000	2000.000	2000.000	2000.000	0.0	0.0	0.0
SP	673.600	0.0	673.600	80.000	671.800	110.000	671.500	160.000	672.300	192.000
GP	673.000	198.000	673.300	221.000	671.200	225.000	670.900	235.000	664.900	238.000
SR	662.300	255.000	671.700	295.000	674.000	295.000	671.500	315.000	670.600	340.000
SR	671.300	370.000	670.900	406.000	670.300	432.000	671.200	490.000	671.000	510.000
SP	672.600	640.000	682.400	660.000	0.0	0.0	0.0	0.0	0.0	0.0
GC	0.100	0.100	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ST	5.000	5054.000	7647.000	9550.000	23500.000	9550.000	0.0	0.0	0.0	0.0

X1	40600.000	19.000	505.000	580.000	2200.000	2200.000	2200.000	0.0	0.0	0.0
SP	664.000	0.0	675.300	25.000	672.000	55.000	669.000	65.000	668.200	85.000
GP	670.800	105.000	671.400	345.000	670.600	350.000	669.800	366.000	663.100	368.000
SR	673.400	400.000	671.400	505.000	666.600	510.000	666.200	550.000	671.600	590.000
SR	673.800	666.000	674.600	705.000	675.500	725.000	681.800	813.000	0.0	0.0
GC	0.000	0.000	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ST	5.000	5048.000	7633.000	9528.000	23000.000	9528.000	0.0	0.0	0.0	0.0

X1	50900.000	31.000	998.000	1030.000	1300.000	1300.000	1300.000	0.0	0.0	0.0
SP	605.300	0.0	681.300	90.000	678.900	130.000	675.500	160.000	674.200	240.000
GP	674.200	320.000	672.800	535.000	673.300	580.000	673.800	585.000	672.300	597.000
SR	672.400	600.000	673.300	605.000	673.700	709.000	674.500	730.000	674.000	759.000
GP	674.600	813.000	674.200	853.000	673.400	873.000	673.900	909.000	675.600	944.000
SR	675.000	975.000	673.100	985.000	672.400	998.000	666.300	1004.000	667.000	1025.000
GP	674.300	1030.000	676.000	1055.000	673.300	1076.000	673.700	1086.000	680.600	1105.000
GC	0.000	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ST	5.000	5075.000	7671.000	9571.000	23000.000	9571.000	0.0	0.0	0.0	0.0

X1	52500.000	27.000	671.000	701.000	2600.000	2600.000	2600.000	0.0	0.0	0.0
SP	682.500	0.0	682.500	80.000	679.700	150.000	677.200	170.000	675.100	175.000
GP	674.500	195.000	674.800	245.000	675.000	265.000	674.600	337.000	674.500	430.000
SR	673.500	440.000	674.500	450.000	675.300	495.000	675.000	570.000	676.800	621.000
SR	678.500	633.000	675.000	671.000	670.100	676.000	669.500	690.000	676.600	701.000
SR	677.900	709.000	674.000	810.000	674.700	896.000	678.800	1010.000	679.000	1050.000
GP	681.800	1085.000	683.000	1165.000	0.0	0.0	0.0	0.0	0.0	0.0
GC	0.100	0.100	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ST	5.000	5065.000	7655.000	9550.000	22500.000	9550.000	0.0	0.0	0.0	0.0

X1	55500.000	20.000	390.000	425.000	2100.000	2100.000	2100.000	0.0	0.0	0.0
SP	696.100	0.0	696.300	50.000	689.900	130.000	682.500	190.000	679.500	280.000
GP	676.800	390.000	672.600	400.000	670.100	410.000	672.300	420.000	679.900	425.000
SR	678.300	490.000	678.300	550.000	677.300	580.000	677.800	643.000	678.000	710.000
SR	677.600	600.000	678.100	650.000	682.300	1020.000	682.600	1110.000	686.500	1250.000
GC	0.000	0.000	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ST	5.000	5062.000	7651.000	9548.000	22000.000	9548.000	0.0	0.0	0.0	0.0

X1	57400.000	14.000	180.000	212.000	1800.000	1800.000	1800.000	0.0	0.0	0.0
GR	688.400	0.0	688.400	20.000	685.200	65.000	680.600	90.000	680.600	180.000
GR	672.400	165.000	679.400	202.000	681.300	212.000	680.900	220.000	680.800	280.000
GR	681.600	310.000	685.000	310.000	686.100	470.000	690.500	540.000	0.0	0.0

X1	57490.000	11.000	320.000	369.000	90.000	90.000	90.000	0.0	0.0	0.0
GR	691.000	0.0	688.700	90.000	685.600	195.000	683.800	320.000	671.800	320.100
GR	666.800	324.000	668.800	367.000	671.600	368.900	683.800	369.000	685.000	550.000
GR	689.400	760.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	0.900	1.500	2.500	0.0	49.000	0.010	623.000	0.0	0.0	0.0

X1	57511.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	681.700	683.800	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	691.000	0.0	90.000	688.700	0.0	195.000	685.600	0.0
BT	320.000	683.800	681.700	369.000	683.800	681.700	550.000	685.000	0.0	760.000
BT	689.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	57690.000	17.000	220.000	265.000	89.000	89.000	89.000	0.0	0.0	0.0
GR	687.100	0.0	684.200	70.000	682.700	125.000	680.500	160.000	679.900	220.000
GR	673.100	226.000	673.000	235.000	673.800	250.000	679.100	265.000	680.000	315.000
GR	679.500	320.000	681.100	345.000	652.000	375.000	682.300	415.000	682.600	465.000
GR	684.000	540.000	688.700	630.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	5396.000	8323.000	9921.000	21500.000	9921.000	0.0	0.0	0.0	0.0

X1	61100.000	21.000	635.000	680.000	3500.000	3500.000	3500.000	0.0	0.0	0.0
GR	692.700	0.0	691.500	135.000	688.300	220.000	685.600	275.000	683.500	360.000
GR	686.100	515.000	682.800	550.000	682.400	560.000	686.800	605.000	684.700	620.000
GR	645.500	635.000	678.100	642.000	677.200	654.000	677.700	664.000	686.500	680.000
GR	686.300	700.000	684.600	715.000	684.100	800.000	683.400	830.000	683.800	860.000
GR	688.200	940.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	4122.000	6257.000	7417.000	18000.000	7417.000	0.0	0.0	0.0	0.0

X1	63200.000	16.000	143.000	182.000	2100.000	2100.000	2100.000	0.0	0.0	0.0
GR	692.000	0.0	690.700	33.000	682.800	78.000	683.100	93.000	686.100	113.000
GR	686.200	122.000	684.600	143.000	678.000	146.000	677.700	157.000	678.000	167.000
GR	683.900	175.000	685.300	182.000	686.200	209.000	684.700	216.000	685.300	229.000
GR	699.200	308.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	4129.000	6264.000	7426.000	18000.000	7426.000	0.0	0.0	0.0	0.0

X1	64600.000	28.000	650.000	690.000	1400.000	1400.000	1400.000	0.0	0.0	0.0
GR	696.900	0.0	692.200	50.000	692.100	90.000	687.000	110.000	685.400	150.000
GR	684.400	220.000	686.300	270.000	685.700	340.000	684.200	355.000	686.000	360.000
GR	686.200	405.000	686.600	435.000	685.500	475.000	686.800	510.000	686.000	575.000
GR	687.800	600.000	687.200	620.000	688.000	650.000	679.700	660.000	678.700	670.000
GR	679.100	680.000	687.500	690.000	688.600	700.000	686.100	740.000	685.600	820.000
GR	688.900	710.000	690.900	985.000	695.600	1060.000	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	6194.000	6338.000	7517.000	18000.000	7517.000	0.0	0.0	0.0	0.0

X1	65600.000	26.000	732.000	776.000	1200.000	1200.000	1200.000	0.0	0.0	0.0
GR	716.600	0.0	701.300	38.000	693.000	66.000	687.900	114.000	687.100	353.000
GR	697.200	405.000	697.100	460.000	688.500	520.000	688.100	585.000	687.400	595.000
GR	687.900	603.000	688.500	715.000	690.300	732.000	686.500	740.000	681.000	746.000
GR	680.400	752.000	680.500	760.000	689.700	776.000	688.600	780.000	689.300	786.000
GR	689.600	816.000	687.000	861.000	687.900	887.000	687.500	902.000	690.300	935.000

GR	692.800	1005.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	4264.000	6446.000	7628.000	18500.000	7628.000	0.0	0.0	0.0	0.0
X1	67680.000	23.000	210.000	240.000	1890.000	1880.000	1880.000	0.0	0.0	0.0
GR	707.300	0.0	705.800	50.000	701.800	110.000	701.800	130.000	700.400	140.000
GR	698.500	150.000	696.400	170.000	696.600	180.000	694.500	200.000	691.800	210.000
GR	694.500	220.000	683.900	230.000	684.900	235.000	692.300	240.000	696.800	260.000
GR	691.000	280.000	692.400	310.000	693.000	330.000	692.400	340.000	690.600	345.000
GR	691.000	390.000	695.400	415.000	697.400	450.000	0.0	0.0	0.0	0.0
X1	67771.000	13.000	448.000	485.000	91.000	91.000	91.000	0.0	0.0	0.0
GR	706.600	0.0	703.500	100.000	701.500	190.000	700.200	270.000	699.100	365.000
GR	699.100	448.000	684.700	448.100	682.900	449.000	682.900	484.000	684.700	484.900
GR	699.100	485.000	697.200	560.000	697.800	670.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	37.000	0.010	520.000	0.0	0.0	0.0
X1	67792.000	0.0	0.0	0.0	18.000	18.000	18.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	697.000	697.200	0.0	0.0	0.0	0.0	0.0
BT	9.000	0.0	706.600	0.0	100.000	703.500	0.0	190.000	701.500	0.0
BT	270.000	700.200	0.0	365.000	699.100	0.0	448.000	699.100	697.000	485.000
BT	699.100	697.000	560.000	697.200	0.0	670.000	697.800	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	67880.000	24.000	342.000	372.000	91.000	91.000	91.000	0.0	0.0	0.0
GR	705.600	0.0	703.000	100.000	701.100	160.000	698.600	220.000	697.300	280.000
GR	698.200	290.000	695.800	300.000	696.300	310.000	696.200	330.000	692.400	340.000
GR	692.400	342.000	685.300	349.000	684.700	360.000	685.000	370.000	691.500	372.000
GR	694.600	380.000	697.700	390.000	692.700	445.000	692.900	475.000	692.000	565.000
GR	692.300	670.000	691.500	680.000	696.500	740.000	700.700	800.000	0.0	0.0
NC	0.095	0.095	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	4269.000	6456.000	7639.000	18500.000	7639.000	0.0	0.0	0.0	0.0
X1	69700.000	22.000	366.000	400.000	1820.000	1820.000	1820.000	0.0	0.0	0.0
GR	701.700	0.0	697.400	185.000	694.400	280.000	695.300	314.000	695.400	366.000
GR	692.400	370.000	690.800	375.000	686.600	375.100	686.200	385.000	686.200	393.000
GR	694.200	400.000	697.100	410.000	696.800	423.000	694.800	455.000	694.000	500.000
GR	694.100	540.000	693.200	545.000	693.900	560.000	693.700	630.000	696.100	680.000
GR	697.100	744.000	699.400	750.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	4262.000	6470.000	7651.000	19000.000	7651.000	0.0	0.0	0.0	0.0
X1	71650.000	29.000	675.000	715.000	1950.000	1950.000	1950.000	0.0	0.0	0.0
GR	702.400	0.0	699.600	15.000	700.400	120.000	695.800	200.000	696.000	290.000
GR	697.200	333.000	695.900	365.000	696.300	405.000	698.800	480.000	696.500	484.000
GR	698.700	498.000	697.900	540.000	698.700	595.000	698.700	625.000	701.500	660.000
GR	693.200	675.000	699.300	685.000	689.400	695.000	689.200	709.000	698.100	715.000
GR	702.300	735.000	698.700	752.000	699.000	839.000	698.000	870.000	698.400	950.000
GR	697.600	975.000	697.200	1025.000	702.000	1085.000	706.000	1105.000	0.0	0.0
NC	0.090	0.090	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	4361.000	6590.000	7795.000	19000.000	7795.000	0.0	0.0	0.0	0.0
X1	724.500	0.0	0.0	0.0	800.000	800.000	800.000	0.0	1.400	0.0
X1	732.500	0.0	0.0	0.0	800.000	800.000	800.000	0.0	1.400	0.0
X1	74050.000	16.000	196.000	240.000	800.000	800.000	800.000	0.0	0.0	0.0

GR	720.900	0.0	718.300	93.000	717.800	110.000	715.100	130.000	704.200	758.000
GR	702.700	196.000	693.400	211.000	693.600	223.000	701.000	240.000	702.200	246.000
GR	705.600	253.000	707.500	273.000	708.800	293.000	710.800	303.000	715.400	343.000
GR	722.500	443.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	74140.000	13.000	473.000	510.000	90.000	90.000	90.000	0.0	0.0	0.0
GR	724.000	0.0	720.600	80.000	715.000	160.000	708.600	320.000	710.800	473.000
GR	694.300	473.100	692.000	475.000	692.000	507.000	694.300	509.900	710.800	510.000
GR	712.800	790.000	716.800	870.000	721.300	1110.000	0.0	0.0	0.0	0.0
SE	0.900	1.500	2.500	0.0	37.000	0.010	597.000	0.0	0.0	0.0

X1	74160.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	708.300	708.600	0.0	0.0	0.0	0.0	0.0
BT	9.000	0.0	724.000	0.0	80.000	720.600	0.0	160.000	715.800	0.0
BT	320.000	708.600	0.0	473.000	710.800	708.300	510.000	710.800	708.300	790.000
BT	712.800	0.0	870.000	716.800	0.0	1110.000	721.300	0.0	0.0	0.0
MC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	74250.000	25.000	640.000	680.000	90.000	90.000	90.000	0.0	0.0	0.0
GR	721.300	0.0	716.200	46.000	716.200	61.000	711.100	70.000	708.900	110.000
GR	703.000	188.000	702.100	320.000	702.700	540.000	703.500	610.000	704.800	620.000
GR	703.000	636.000	701.600	640.000	698.500	643.000	694.300	660.000	693.500	665.000
GR	694.100	670.000	700.300	680.000	703.800	688.000	704.900	760.000	706.700	790.000
GR	708.800	830.000	709.100	870.000	713.700	960.000	715.100	1000.000	722.900	1120.000
MC	0.085	0.085	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	4487.000	6747.000	7949.000	19000.000	7949.000	0.0	0.0	0.0	0.0

X1	76000.000	24.000	492.000	539.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	734.600	0.0	728.400	80.000	723.500	102.000	717.200	172.000	703.900	262.000
GR	704.700	372.000	705.400	402.000	706.000	492.000	704.600	492.000	700.600	496.000
GR	696.800	509.000	696.700	512.000	696.500	522.000	701.200	530.000	705.900	539.000
GR	708.000	552.000	704.700	582.000	704.400	712.000	705.100	722.000	707.200	892.000
GR	709.400	902.000	704.300	912.000	715.800	957.000	718.800	1017.000	0.0	0.0
MC	0.085	0.085	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	4630.000	6925.000	8134.000	19500.000	8134.000	0.0	0.0	0.0	0.0

X1	74080.000	23.000	745.000	600.000	2080.000	2080.000	2080.000	0.0	0.0	0.0
GR	729.500	0.0	724.100	43.000	719.000	180.000	717.800	200.000	719.400	230.000
GR	718.400	300.000	715.700	320.000	712.500	540.000	712.200	600.000	708.600	680.000
GR	705.700	683.000	709.600	686.000	709.200	730.000	711.000	745.000	706.800	751.000
GR	699.200	761.000	699.000	771.000	700.100	781.000	702.200	790.000	702.800	795.000
GR	709.200	800.000	711.700	991.000	721.900	1181.000	0.0	0.0	0.0	0.0

X1	74169.000	11.000	357.000	393.000	89.000	89.000	89.000	0.0	0.0	0.0
GR	715.900	0.0	712.800	240.000	713.700	350.000	713.600	357.000	701.700	357.100
GR	699.300	358.000	699.300	392.000	701.700	392.900	713.600	393.000	713.800	400.000
GR	715.700	500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.900	1.500	2.500	0.0	36.000	0.010	440.000	0.0	0.0	0.0

X1	74191.000	0.0	0.0	0.0	22.000	22.000	22.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	711.600	712.800	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	715.800	0.0	240.000	712.800	0.0	350.000	713.700	0.0
BT	357.000	713.600	711.600	393.000	713.600	711.600	400.000	713.800	0.0	500.000
BT	715.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MC	0.090	0.090	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	74280.000	22.000	390.000	435.000	89.000	89.000	89.000	0.0	0.0	0.0
GR	715.900	0.0	710.400	20.000	710.400	25.000	709.400	30.000	708.600	60.000

GR	707.200	110.000	710.100	150.000	710.500	250.000	711.500	590.000	707.600	354.000
GR	706.100	396.000	702.700	400.000	702.300	410.000	702.200	420.000	707.400	422.000
GR	711.700	435.000	710.900	440.000	712.400	500.000	710.300	1030.000	709.700	1060.000
GR	713.200	1075.000	717.600	1130.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1461.000	2198.000	2581.000	6200.000	2581.000	0.0	0.0	0.0	0.0

X1	80430.000	20.000	334.000	394.000	2150.000	2150.000	2150.000	0.0	0.0	0.0
GR	731.200	0.0	726.600	40.000	722.000	45.000	723.600	70.000	718.500	80.000
GR	717.100	130.000	714.800	170.000	712.600	250.000	712.400	270.000	715.500	330.000
GR	717.300	334.000	706.200	354.000	706.100	360.000	707.000	365.000	711.700	370.000
GR	719.100	394.000	720.000	424.000	722.400	444.000	724.200	464.000	727.600	524.000

X1	80518.000	11.000	221.000	259.000	88.000	88.000	88.000	0.0	0.0	0.0
GR	729.900	0.0	725.400	150.000	725.500	220.000	725.500	221.000	709.000	221.100
GR	707.100	223.000	707.100	258.000	709.000	258.900	726.100	259.000	726.100	260.000
GR	732.000	490.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	38.000	0.010	617.000	0.0	0.0	0.0

X1	80543.000	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	723.700	725.400	0.0	0.0	0.0	0.0	0.0
BT	7.000	0.0	729.900	0.0	150.000	725.400	0.0	200.000	725.500	0.0
BT	221.000	725.500	723.100	259.000	726.100	723.700	260.000	726.100	0.0	490.000
BT	732.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	80630.000	14.000	200.000	235.000	87.000	87.000	87.000	0.0	0.0	0.0
GR	730.200	0.0	724.000	70.000	718.000	120.000	716.500	170.000	715.900	200.000
GR	712.100	210.000	708.000	220.000	706.900	225.000	708.000	230.000	713.800	255.000
GR	714.000	250.000	718.100	255.000	717.900	280.000	726.400	350.000	0.0	0.0
NC	0.080	0.080	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1453.000	2190.000	2572.000	5600.000	2572.000	0.0	0.0	0.0	0.0

X1	82650.000	16.000	230.000	255.000	2020.000	2020.000	2020.000	0.0	0.0	0.0
GR	737.100	0.0	722.700	48.000	721.800	60.000	720.900	65.000	722.700	70.000
GR	722.100	100.000	722.100	150.000	721.600	180.000	722.000	230.000	716.100	240.000
GR	716.000	245.000	715.000	250.000	722.200	255.000	724.000	275.000	732.300	315.000
GR	736.400	330.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1422.000	2135.000	2523.000	4800.000	2523.000	0.0	0.0	0.0	0.0

X1	84200.000	17.000	76.000	119.000	1550.000	1550.000	1550.000	0.0	0.0	0.0
GR	737.100	0.0	735.100	18.000	729.800	28.000	729.200	76.000	722.000	94.000
GR	720.100	97.000	719.600	140.000	719.600	104.000	723.000	107.000	727.000	119.000
GR	728.000	239.000	728.800	248.000	728.600	279.000	731.200	330.000	735.800	415.000
GR	736.000	445.000	740.000	495.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	84255.000	10.000	574.500	58395.000	65.000	65.000	65.000	0.0	0.0	0.0
GR	751.500	0.0	747.100	117.000	744.400	212.000	742.800	349.000	721.500	574.500
GR	720.500	574.500	720.500	583.500	721.500	583.500	750.000	1100.000	751.300	1160.000
SR	1.250	1.500	2.500	0.0	9.000	0.500	93.500	0.0	0.0	0.0

X1	54335.000	0.0	0.0	0.0	70.000	70.000	70.000	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
X2	0.0	0.0	1.000	731.500	742.600	0.0	0.0	0.0	0.0	0.0
QT	8.000	0.0	751.300	0.0	117.000	747.100	0.0	212.000	744.400	0.0
BT	349.000	742.600	0.0	574.500	742.600	731.500	583.500	742.600	731.500	1100.000
BT	750.000	0.0	1160.000	751.300	0.0	0.0	0.0	0.0	0.0	0.0

0.090 0.090 0.095 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1	84400.000	21.000	252.000	307.000	65.000	65.000	65.000	0.0	0.0	0.0
GR	744.600	0.0	741.600	16.000	735.200	44.000	732.900	55.000	730.600	59.000
GR	729.300	114.000	727.000	119.000	728.900	126.000	728.100	143.000	727.400	154.000
GR	727.900	247.000	728.300	252.000	722.800	256.000	721.500	277.000	721.000	283.000
GR	721.300	291.000	729.000	307.000	730.700	327.000	735.000	342.000	741.400	372.000
GR	745.700	398.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.095	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1404.000	2128.000	2505.000	3500.000	2505.000	0.0	0.0	0.0	0.0

AX

X1	86350.000	25.000	195.000	228.000	1950.000	1950.000	1950.000	0.0	0.0	0.0
GR	800.000	0.0	745.600	85.000	743.000	108.000	740.500	120.000	737.400	127.000
GR	736.400	147.000	736.300	186.000	737.200	195.000	731.200	291.000	729.000	213.000
GR	731.000	220.000	736.900	228.000	736.500	270.000	736.500	275.000	736.500	280.000
GR	736.500	300.000	736.500	307.000	736.500	341.000	738.900	375.000	739.600	412.000
GR	739.700	442.000	741.300	448.000	743.000	470.000	747.900	550.000	800.000	580.000

X1	86434.000	11.000	270.000	300.000	84.000	84.000	84.000	0.0	0.0	0.0
GR	751.800	0.0	747.400	70.000	740.900	200.000	729.000	270.000	729.000	270.100
GR	729.000	299.000	729.000	300.000	739.000	314.000	738.600	394.000	741.600	510.000
GR	749.000	640.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	30.000	0.010	264.000	0.0	0.0	0.0

X1	86466.000	0.0	0.0	0.0	32.000	32.000	32.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	737.800	738.600	0.0	0.0	0.0	0.0	0.0
BT	9.000	0.0	751.800	0.0	70.000	747.400	0.0	200.000	740.900	0.0
BT	270.000	739.400	737.800	300.000	739.400	737.800	314.000	739.000	0.0	394.000
BT	738.600	0.0	610.000	741.600	0.0	640.000	749.000	0.0	0.0	0.0
NC	0.090	0.090	0.065	0.100	0.300	0.0	0.0	0.0	0.0	0.0

AY

X1	86550.000	17.000	173.000	201.000	84.000	84.000	84.000	0.0	0.0	0.0
GR	749.100	0.0	748.000	12.000	744.700	34.000	737.400	64.000	735.000	68.000
GR	734.400	147.000	735.900	173.000	730.000	177.000	729.700	184.000	729.800	191.000
GR	735.700	201.000	735.400	293.000	735.500	386.000	737.600	425.000	737.500	433.000
GR	745.000	460.000	749.300	472.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.095	0.095	0.095	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1379.000	2207.000	2556.000	3344.000	2556.000	0.0	0.0	0.0	0.0

X1	874.500	14.000	1270.000	1294.000	880.000	880.000	880.000	0.0	4.500	0.0
GR	767.700	1000.000	755.200	1100.000	745.200	1200.000	744.300	1270.000	736.800	1275.000
GR	736.500	1282.000	736.500	1287.000	743.800	1294.000	743.600	1300.000	743.400	1400.000
GR	745.300	1500.000	747.500	1559.000	753.400	1600.000	761.600	1700.000	0.0	0.0

X1	883.100	0.0	0.0	0.0	880.000	880.000	880.000	0.0	2.300	0.0
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AZ

X1	89200.000	0.0	0.0	0.0	890.000	890.000	890.000	0.0	2.300	0.0
QT	5.000	1329.000	2118.000	2453.000	3207.000	2453.000	0.0	0.0	0.0	0.0

BA

X1	91302.000	19.000	1452.000	1562.000	2102.000	2102.000	2102.000	0.0	-0.400	0.0
GR	775.600	961.000	772.900	1000.000	768.700	1100.000	765.800	1200.000	763.500	1300.000
GR	760.800	1400.000	759.400	1452.000	752.600	1467.000	750.200	1469.000	750.600	1479.000
GR	751.600	1494.000	754.300	1500.000	756.900	1557.000	760.100	1562.000	760.600	1600.000
GR	762.100	1700.000	765.500	1800.000	769.100	1900.000	773.500	2000.000	0.0	0.0

X1	91352.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
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	0.000	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450
1	91477.000	19.000	1400.000	1531.000	25.000	25.000	25.000	0.0	0.0	0.0
2	774.000	945.000	775.000	1000.000	771.000	1100.000	767.300	1200.000	765.000	1300.000
3	750.700	1400.000	761.200	1500.000	754.100	1500.000	750.500	1506.000	750.600	1515.000
4	750.000	1522.000	752.100	1529.000	752.100	1531.000	760.600	1600.000	761.100	1700.000
5	763.700	1700.000	768.000	1900.000	773.000	2000.000	777.500	2100.000	0.0	0.0
6	0.500	1.500	2.500	0.0	31.000	0.010	244.000	0.0	0.0	0.0
7	0.000	0.0	0.0	0.0	26.000	26.000	26.000	0.0	0.0	0.0
8	0.0	0.0	1.000	759.100	760.600	0.0	0.0	0.0	0.0	0.0
9	1.000	865.000	778.000	0.0	1000.000	775.800	0.0	1100.000	771.000	0.0
10	770.000	767.000	0.0	1300.000	765.000	0.0	1400.000	762.700	0.0	1500.000
11	761.200	759.000	1531.000	761.100	759.000	1600.000	760.600	0.0	1700.000	761.100
12	0.0	1500.000	763.700	0.0	1900.000	760.000	0.0	2000.000	773.000	0.0
13	0.000	777.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.000	0.000	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
15	0.000	19.000	1452.000	1562.000	25.000	25.000	25.000	0.0	0.0	0.0
16	770.000	961.000	772.000	1000.000	768.700	1100.000	765.800	1200.000	763.500	1300.000
17	750.000	1400.000	759.000	1452.000	752.600	1467.000	750.200	1469.000	750.600	1479.000
18	761.000	1400.000	761.000	1500.000	756.900	1557.000	760.100	1562.000	760.600	1600.000
19	760.100	1700.000	765.500	1800.000	769.100	1900.000	773.500	2000.000	0.0	0.0
20	0.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
21	0.000	0.000	0.000	1003.000	1444.000	1003.000	0.0	0.0	0.0	0.0
22	0.000	15.000	1362.000	1380.000	1728.000	1728.000	1728.000	0.0	0.0	0.0
23	780.000	1000.000	780.000	1100.000	783.500	1200.000	784.000	1300.000	773.500	1362.000
24	771.500	1365.000	771.200	1371.000	771.500	1377.000	777.300	1380.000	776.800	1400.000
25	781.200	1500.000	787.500	1600.000	793.800	1700.000	0.0	0.0	0.0	0.0
26	0.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
27	0.000	0.000	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
28	0.000	16.000	1362.000	1369.000	50.000	50.000	50.000	0.0	0.0	0.0
29	780.000	1000.000	781.500	1100.000	786.400	1200.000	782.000	1300.000	781.000	1352.000
30	770.700	1362.000	772.500	1353.000	772.200	1360.000	772.400	1367.000	773.600	1369.000
31	781.000	1365.000	781.000	1400.000	782.700	1500.000	785.400	1600.000	789.500	1700.000
32	790.000	1500.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.000	1.000	2.500	0.0	17.000	0.010	116.000	0.0	0.0	0.0
34	0.000	0.0	0.0	0.0	28.000	28.000	28.000	0.0	0.0	0.0
35	0.0	0.0	1.000	779.400	781.000	0.0	0.0	0.0	0.0	0.0
36	11.000	1000.000	780.500	0.0	1100.000	791.500	0.0	1200.000	786.400	0.0
37	1365.000	762.000	0.0	1362.000	781.000	779.400	1369.000	781.000	779.200	1400.000
38	781.000	0.0	1500.000	782.700	0.0	1600.000	785.400	0.0	1700.000	789.500
39	0.0	1000.000	780.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.000	0.000	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
41	0.000	15.000	1362.000	1380.000	50.000	50.000	50.000	0.0	0.500	0.0
42	780.000	1000.000	780.000	1100.000	783.500	1200.000	784.000	1300.000	773.500	1362.000
43	771.500	1365.000	771.200	1371.000	771.500	1377.000	777.300	1380.000	776.800	1400.000
44	781.200	1500.000	787.500	1600.000	793.800	1700.000	0.0	0.0	0.0	0.0
45	0.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0

	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	394.000	692.000	842.000	1218.000	842.000	0.0	0.0	0.0	0.0
K1	941.430	0.0	0.0	0.0	709.000	709.000	709.000	0.0	5.100	0.0
Y1	942.510	0.0	0.0	0.0	708.000	708.000	708.000	0.0	5.100	0.0
X1	9559.000	8.000	1100.000	1134.000	708.000	708.000	708.000	0.0	0.0	0.0
SP	908.300	1000.000	791.500	1100.000	787.600	1111.000	787.400	1117.000	787.200	1123.000
GR	792.700	1134.600	795.900	1200.000	808.300	1290.000	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

T1 ROWAN CO. BASIN E STREAM 1 GRANTS CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FR
	-10.	3.	0.	0.	0.0	0.0	0.0	0.	676.200	0.0
J2	IPROF	IPLOT	PRFVS	YSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300

*SECNO 45200.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
0	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	IOC	ICONT	CORAR	TOPWID	ENDST
45200.00	13.19	676.20	0.0	676.20	676.39	0.19	0.0	0.0	665.31
7924.	2269.	2958.	2697.	1395.	559.	1656.	0.	0.	665.51
0.0	1.63	5.29	1.63	0.090	0.055	0.090	0.0	658.01	171.28
0.001195	45200.	45200.	45200.	0	0	0	0.0	738.83	910.11

*SECNO 45250.000

45250.00	18.00	676.25	0.0	0.0	676.46	0.21	0.06	0.01	665.55
7924.	2237.	3034.	2654.	1336.	554.	1589.	4.	1.	665.75
0.00	1.67	5.48	1.67	0.090	0.055	0.090	0.054	658.25	178.16
0.001303	50.	50.	50.	0	0	0	0.0	729.15	907.31

*SECNO 45275.000

45275.00	17.91	676.28	0.0	0.0	676.49	0.22	0.03	0.00	665.67
7924.	2218.	3077.	2629.	1304.	550.	1552.	6.	1.	665.87
0.01	1.70	5.59	1.69	0.090	0.055	0.090	0.054	658.37	181.92
0.001366	25.	25.	25.	0	0	0	0.0	723.86	905.78

*SECNO 45300.000

45300.00	17.73	676.24	0.0	0.0	676.56	0.32	0.04	0.03	666.81
7924.	1669.	4849.	1406.	952.	861.	793.	8.	2.	667.81
0.01	1.75	5.63	1.77	0.090	0.055	0.090	0.053	658.51	426.73
0.001435	25.	25.	25.	2	0	0	0.0	568.39	995.12

SPECIAL BRIDGE

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

T1 ROWAN CO. BASIN E STREAM 1 GRANTS CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.0	0.0	0.0	0.	677.100	0.0
J2	MPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 3

CCHV= 0.100 CEHV= 0.300

*SECNO 45200.000

SECNO	DEPTH	WSEL	CRINS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLQBL	XLCH	XLQBR	ITRIAL	IOC	ICDNT	CORAR	TOPWID	ENDST
45200.00	19.09	677.10	0.0	677.10	677.26	0.16	0.0	0.0	665.31
9521.	2904.	3152.	3465.	1711.	589.	1997.	0.	0.	665.51
0.0	1.70	5.35	1.74	0.090	0.055	0.090	0.0	658.01	136.94
0.001142	45200.	45200.	45200.	0	0	0	0.0	787.12	924.06

*SECNO 45250.000

45250.00	18.90	677.15	0.0	0.0	677.34	0.19	0.06	0.00	665.55
9521.	2870.	3227.	3424.	1644.	583.	1926.	5.	1.	665.75
0.00	1.75	5.53	1.78	0.090	0.055	0.090	0.054	658.25	143.93
0.001239	50.	50.	50.	0	0	0	0.0	777.29	921.22

*SECNO 45275.000

45275.00	18.81	677.17	0.0	0.0	677.38	0.20	0.03	0.00	665.67
9521.	2851.	3269.	3401.	1609.	580.	1889.	7.	1.	665.87
0.01	1.77	5.64	1.80	0.090	0.055	0.090	0.054	658.37	147.69
0.001295	25.	25.	25.	0	0	0	0.0	772.00	919.69

*SECNO 45300.000

45300.00	18.62	677.12	0.0	0.0	677.45	0.33	0.03	0.04	666.81
9521.	2267.	5364.	1890.	1243.	912.	994.	9.	2.	667.81
0.01	1.82	5.88	1.90	0.090	0.055	0.090	0.053	658.51	363.80
0.001449	25.	25.	25.	2	0	0	0.0	662.23	1026.03

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

T1 ROWAN CO. BASIN E STREAM 1 GRANTS CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IHO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.0	0.0	0.0	0.	678.900	0.0

J2	MPROF	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

*PROF 4

CCHV= 0.100 CEFV= 0.300

*SECNO 45200.000

SECNO	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
45200.00	20.89	678.90	0.0	678.90	679.43	0.53	0.0	0.0	665.31
24000.	8140.	6331.	9509.	2423.	649.	2712.	0.	0.	665.51
0.0	3.37	9.76	3.51	0.090	0.055	0.090	0.0	658.01	90.86
0.003345	45200.	45200.	45200.	0	0	0	0.0	852.35	943.20

*SECNO 45250.000

45250.00	20.81	679.06	0.0	0.0	679.60	0.54	0.17	0.00	665.55
24000.	8128.	6386.	9485.	2393.	646.	2683.	7.	1.	665.75
0.00	3.40	9.88	3.54	0.090	0.055	0.090	0.054	658.25	92.13
0.003446	50.	50.	50.	0	0	0	0.0	850.53	942.66

*SECNO 45275.000

45275.00	20.77	679.14	0.0	0.0	679.69	0.55	0.09	0.00	665.67
24000.	8109.	6420.	9471.	2375.	645.	2665.	10.	1.	665.87
0.00	3.41	9.96	3.55	0.090	0.055	0.090	0.054	658.37	92.90
0.003509	25.	25.	25.	0	0	0	0.0	849.43	942.33

*SECNO 45300.000

45300.00	20.41	678.92	0.0	0.0	679.93	1.01	0.10	0.14	666.81
24000.	7994.	11205.	5622.	1988.	1017.	1477.	13.	2.	667.81
0.00	3.57	11.10	3.81	0.090	0.055	0.090	0.053	658.51	271.22
0.004471	25.	25.	25.	2	0	0	0.0	798.23	1069.46

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

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

SECTION Y - LIMIT OF STUDY

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
45200.000	45200.00	0.0	0.0	5032.00	658.01	674.20	0.0	5.15	247.59	879.11	2261.94	0.0
45200.000	45200.00	0.0	0.0	7924.00	658.01	676.20	0.0	5.29	171.28	910.11	3610.44	2.00
45200.000	45200.00	0.0	0.0	9521.00	658.01	677.10	0.0	5.35	136.94	924.06	4297.04	0.90
45200.000	45200.00	0.0	0.0	24000.00	658.01	678.90	0.0	9.76	90.86	943.20	5783.67	1.80
45250.000	50.00	0.0	0.0	5032.00	658.25	674.25	0.0	5.37	254.46	876.32	2156.31	0.0
45250.000	50.00	0.0	0.0	7924.00	658.25	676.25	0.0	5.48	178.16	907.31	3478.01	2.00
45250.000	50.00	0.0	0.0	9521.00	658.25	677.15	0.0	5.53	143.93	921.22	4153.81	0.90
45250.000	50.00	0.0	0.0	24000.00	658.25	679.06	0.0	9.88	92.13	942.66	5721.72	1.91
45275.000	25.00	0.0	0.0	5032.00	658.37	674.28	0.0	5.48	257.98	874.89	2103.04	0.0
45275.000	25.00	0.0	0.0	7924.00	658.37	676.28	0.0	5.59	181.92	905.78	3406.36	2.00
45275.000	25.00	0.0	0.0	9521.00	658.37	677.17	0.0	5.64	147.69	919.69	4077.41	0.90
45275.000	25.00	0.0	0.0	24000.00	658.37	679.14	0.0	9.96	92.90	942.33	5684.37	1.97
45300.000	25.00	0.0	0.0	5032.00	658.51	674.00	0.0	6.88	725.00	783.00	731.48	0.0
45300.000	25.00	0.0	0.0	7924.00	658.51	676.24	0.0	5.63	426.73	995.12	2606.78	2.24
45300.000	25.00	0.0	0.0	9521.00	658.51	677.12	0.0	5.88	363.80	1026.03	3150.23	0.88
45300.000	25.00	0.0	0.0	24000.00	658.51	678.92	0.0	11.10	271.22	1069.46	4480.99	1.79
45350.000	50.00	675.30	673.20	5032.00	658.51	674.29	0.0	6.72	725.00	783.00	748.59	0.0
45350.000	50.00	675.30	673.20	7924.00	658.51	676.54	0.0	5.36	404.97	1005.81	2785.33	2.25
45350.000	50.00	675.30	673.20	9521.00	658.51	677.33	0.0	5.69	348.92	1033.33	3290.80	0.79
45350.000	50.00	675.30	673.20	24000.00	658.51	679.26	0.0	10.52	257.81	1075.42	4756.24	1.93
45375.000	25.00	0.0	0.0	5032.00	658.51	675.04	0.0	2.28	392.9A	1194.08	4782.19	0.0
45375.000	25.00	0.0	0.0	7924.00	658.51	676.82	0.0	2.72	326.75	1217.18	6284.93	1.78
45375.000	25.00	0.0	0.0	9521.00	658.51	677.62	0.0	2.92	296.93	1227.58	7013.42	0.80
45375.000	25.00	0.0	0.0	24000.00	658.51	680.11	0.0	5.28	215.18	1239.21	9448.03	2.49
45400.000	25.00	0.0	0.0	5032.00	658.51	675.05	0.0	2.27	392.76	1194.16	4786.80	0.0
45400.000	25.00	0.0	0.0	7924.00	658.51	676.83	0.0	2.71	326.24	1217.36	6297.20	1.78
45400.000	25.00	0.0	0.0	9521.00	658.51	677.63	0.0	2.91	296.39	1227.77	7026.91	0.80
45400.000	25.00	0.0	0.0	24000.00	658.51	680.13	0.0	5.26	214.50	1239.29	9469.69	2.50
47400.000	2000.00	0.0	0.0	5040.00	662.30	675.96	0.0	3.69	0.0	646.87	2837.05	0.0
47400.000	2000.00	0.0	0.0	7928.00	662.30	677.82	0.0	3.77	0.0	650.65	4041.11	1.86
47400.000	2000.00	0.0	0.0	9529.00	662.30	678.66	0.0	3.87	0.0	652.38	4590.30	0.84
47400.000	2000.00	0.0	0.0	24000.00	662.30	682.44	0.0	5.80	0.0	660.00	7067.38	3.78

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRISW	VCH	SSTA	ENDST	AREA	DIFWSP
49600.000	2200.00	0.0	0.0	5054.00	663.10	677.41	0.0	2.17	21.40	751.64	4345.03	0.0
49600.000	2200.00	0.0	0.0	7947.00	663.10	679.25	0.0	2.56	15.42	777.41	5721.35	1.84
49600.000	2200.00	0.0	0.0	9550.00	663.10	680.11	0.0	2.74	12.62	789.45	6384.54	0.86
49600.000	2200.00	0.0	0.0	23500.00	663.10	684.74	0.0	4.16	0.0	813.00	10102.20	4.63
50900.000	1300.00	0.0	0.0	5048.00	666.30	678.05	0.0	2.67	137.53	1097.97	4016.81	0.0
50900.000	1300.00	0.0	0.0	7933.00	666.30	679.87	0.0	2.66	113.80	1102.99	5792.40	1.82
50900.000	1300.00	0.0	0.0	9528.00	666.30	680.73	0.0	2.70	99.45	1106.20	6651.66	0.86
50900.000	1300.00	0.0	0.0	23000.00	666.30	685.54	0.0	3.31	0.0	1149.42	11833.73	4.80
53500.000	2600.00	0.0	0.0	5075.00	669.50	679.88	0.0	2.52	145.57	1060.96	3878.02	0.0
53500.000	2600.00	0.0	0.0	7971.00	669.50	681.44	0.0	2.73	106.50	1080.50	5354.65	1.56
53500.000	2600.00	0.0	0.0	9571.00	669.50	682.22	0.0	2.82	87.02	1088.00	6124.28	0.78
53500.000	2600.00	0.0	0.0	23000.00	669.50	686.95	0.0	3.43	0.0	1121.80	11329.85	4.73
55600.000	2100.00	0.0	0.0	5065.00	670.10	682.19	0.0	4.13	199.49	1015.31	2834.07	0.0
55600.000	2100.00	0.0	0.0	7955.00	670.10	683.57	0.0	4.33	181.33	1144.79	4104.13	1.39
55600.000	2100.00	0.0	0.0	9550.00	670.10	684.26	0.0	4.40	175.80	1169.28	4771.87	0.68
55600.000	2100.00	0.0	0.0	22500.00	670.10	688.66	0.0	4.76	140.05	1250.00	9495.44	4.40
57400.000	1800.00	0.0	0.0	5062.00	672.40	686.39	0.0	5.32	47.18	474.58	1729.33	0.0
57400.000	1800.00	0.0	0.0	7951.00	672.40	687.73	0.0	6.23	27.07	495.91	2329.96	1.35
57400.000	1800.00	0.0	0.0	9548.00	672.40	688.34	0.0	6.54	6.39	505.57	2621.34	0.61
57400.000	1800.00	0.0	0.0	22000.00	672.40	692.06	0.0	8.52	0.0	540.00	4597.40	3.72
57490.000	90.00	0.0	0.0	5062.00	668.80	686.48	0.0	5.17	165.34	620.42	1518.22	0.0
57490.000	90.00	0.0	0.0	7951.00	668.80	687.83	0.0	6.47	119.52	684.98	2208.44	1.35
57490.000	90.00	0.0	0.0	9548.00	668.80	688.45	0.0	6.97	98.45	714.69	2576.09	0.62
57490.000	90.00	0.0	0.0	22000.00	668.80	692.31	0.0	8.33	0.0	760.00	5355.43	3.86
57511.000	21.00	683.80	681.70	5062.00	668.80	686.48	0.0	5.17	165.29	620.49	1518.83	0.0
57511.000	21.00	683.80	681.70	7951.00	668.80	687.83	0.0	6.46	119.36	685.22	2211.20	1.35
57511.000	21.00	683.80	681.70	9548.00	668.80	688.45	0.0	6.97	98.25	714.96	2579.66	0.62
57511.000	21.00	683.80	681.70	22000.00	668.80	692.37	0.0	8.24	0.0	760.00	5413.30	3.92
57600.000	89.00	0.0	0.0	5062.00	673.00	686.88	0.0	3.55	5.35	595.11	2890.49	0.0
57600.000	89.00	0.0	0.0	7951.00	673.00	688.37	0.0	4.22	0.0	623.78	3802.30	1.50
57600.000	89.00	0.0	0.0	9548.00	673.00	689.04	0.0	4.54	0.0	630.00	4220.71	0.67
57600.000	89.00	0.0	0.0	22000.00	673.00	692.87	0.0	6.32	0.0	630.00	6632.81	3.83
61100.000	3500.00	0.0	0.0	5396.00	677.20	689.60	0.0	2.80	185.42	940.00	3598.81	0.0
61100.000	3500.00	0.0	0.0	8323.00	677.20	691.28	0.0	3.02	140.72	940.00	4906.39	1.68
61100.000	3500.00	0.0	0.0	9921.00	677.20	692.05	0.0	3.15	73.29	940.00	5537.64	0.77
61100.000	3500.00	0.0	0.0	21500.00	677.20	696.36	0.0	3.77	0.0	940.00	9569.05	4.31
63200.000	2100.00	0.0	0.0	4122.00	677.70	691.47	0.0	4.33	13.34	264.09	1492.38	0.0
63200.000	2100.00	0.0	0.0	6257.00	677.70	693.14	0.0	5.10	0.0	273.53	1935.43	1.66
63200.000	2100.00	0.0	0.0	7417.00	677.70	693.92	0.0	5.44	0.0	277.97	2150.75	0.78
63200.000	2100.00	0.0	0.0	18000.00	677.70	698.33	0.0	8.17	0.0	303.07	3433.58	4.42
64600.000	1400.00	0.0	0.0	4129.00	678.70	692.22	0.0	1.52	49.93	1005.84	5184.86	0.0
64600.000	1400.00	0.0	0.0	6264.00	678.70	693.95	0.0	1.67	31.43	1033.60	6887.55	1.74
64600.000	1400.00	0.0	0.0	7426.00	678.70	694.77	0.0	1.74	22.74	1046.64	7715.51	0.82
64600.000	1400.00	0.0	0.0	18000.00	678.70	699.67	0.0	2.37	0.0	1060.00	12875.12	4.89

AB
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SPRNG	SLUR	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
60000.000	1000.00	0.0	0.0	4194.00	680.40	692.53	0.0	1.93	70.42	997.47	4147.27	0.0
60000.000	1000.00	0.0	0.0	6348.00	680.40	694.25	0.0	1.99	61.80	1005.00	5757.36	1.71
60000.000	1000.00	0.0	0.0	7517.00	680.40	695.06	0.0	2.04	59.07	1005.00	6522.39	0.81
60000.000	1000.00	0.0	0.0	18000.00	680.40	699.98	0.0	2.62	42.45	1005.00	11223.52	4.93
60000.000	1000.00	0.0	0.0	4264.00	683.90	694.09	694.09	12.14	201.52	407.56	569.48	0.0
60000.000	1000.00	0.0	0.0	6446.00	683.90	695.44	695.44	12.96	191.05	415.70	837.10	1.35
60000.000	1000.00	0.0	0.0	7628.00	683.90	695.87	695.87	13.87	186.96	423.22	932.19	0.43
60000.000	1000.00	0.0	0.0	18500.00	683.90	700.90	0.0	13.25	136.36	450.00	2395.41	5.03
60000.000	1000.00	0.0	0.0	4264.00	682.90	695.62	0.0	9.12	448.02	484.98	467.44	0.0
60000.000	1000.00	0.0	0.0	6446.00	682.90	696.37	0.0	13.01	448.02	484.98	495.37	0.75
60000.000	1000.00	0.0	0.0	7628.00	682.90	696.60	0.0	15.16	448.02	484.98	503.24	0.22
60000.000	1000.00	0.0	0.0	18500.00	682.90	702.61	702.61	14.49	139.89	570.00	2365.53	6.02
60000.000	1000.00	697.26	697.00	4264.00	682.90	695.62	0.0	9.12	448.02	484.98	467.46	0.0
60000.000	1000.00	697.26	697.00	6446.00	682.90	696.60	0.0	12.79	448.02	484.98	503.81	0.98
60000.000	1000.00	697.26	697.00	7628.00	682.90	696.60	0.0	15.16	448.02	484.98	503.24	0.01
60000.000	1000.00	697.26	697.00	18500.00	682.90	702.81	0.0	13.93	131.01	670.00	2471.02	6.21
60000.000	1000.00	0.0	0.0	4264.00	684.70	697.20	0.0	4.38	294.17	749.99	1899.00	0.0
60000.000	1000.00	0.0	0.0	6446.00	684.70	699.54	0.0	3.95	197.67	783.29	3129.02	2.34
60000.000	1000.00	0.0	0.0	7628.00	684.70	700.65	0.0	3.80	170.77	799.30	3809.38	1.11
60000.000	1000.00	0.0	0.0	18500.00	684.70	704.90	0.0	4.97	26.88	800.00	6767.47	4.25
60000.000	1000.00	0.0	0.0	4269.00	686.20	699.54	0.0	3.17	92.89	750.00	2779.99	0.0
60000.000	1000.00	0.0	0.0	6456.00	686.20	701.27	0.0	3.24	18.45	750.00	3981.29	1.73
60000.000	1000.00	0.0	0.0	7639.00	686.20	702.16	0.0	3.22	0.0	750.00	4646.59	0.88
60000.000	1000.00	0.0	0.0	18500.00	686.20	706.66	0.0	4.10	0.0	750.00	8020.04	4.51
71000.000	1000.00	0.0	0.0	4282.00	689.20	701.19	0.0	2.80	36.70	1074.67	3416.54	0.0
71000.000	1000.00	0.0	0.0	6470.00	689.20	702.66	0.0	2.77	0.0	1088.26	4962.36	1.47
71000.000	1000.00	0.0	0.0	7651.00	689.20	703.41	0.0	2.74	0.0	1092.02	5780.97	0.75
71000.000	1000.00	0.0	0.0	19000.00	689.20	707.93	0.0	3.21	0.0	1105.00	10757.66	4.52
70000.000	1000.00	0.0	0.0	4361.00	690.60	701.95	0.0	3.56	56.23	1066.46	2778.06	0.0
70000.000	1000.00	0.0	0.0	6590.00	690.60	703.27	0.0	3.49	15.95	1083.39	4125.95	1.33
70000.000	1000.00	0.0	0.0	7785.00	690.60	703.96	0.0	3.42	0.0	1087.78	4857.03	0.68
70000.000	1000.00	0.0	0.0	19000.00	690.60	708.38	0.0	3.63	0.0	1105.00	9715.49	4.42
70000.000	1000.00	0.0	0.0	4361.00	692.00	703.11	0.0	3.90	63.55	1063.38	2546.73	0.0
70000.000	1000.00	0.0	0.0	6590.00	692.00	704.25	0.0	3.97	28.91	1077.95	3679.59	1.14
70000.000	1000.00	0.0	0.0	7785.00	692.00	704.83	0.0	3.95	11.21	1085.15	4291.61	0.58
70000.000	1000.00	0.0	0.0	19000.00	692.00	709.00	0.0	4.06	0.0	1105.00	8854.07	4.17
70000.000	1000.00	0.0	0.0	4361.00	693.40	704.74	0.0	11.51	161.36	251.23	430.26	0.0
70000.000	1000.00	0.0	0.0	6590.00	693.40	705.86	705.86	14.71	157.98	255.73	534.25	1.12
70000.000	1000.00	0.0	0.0	7785.00	693.40	706.67	706.67	15.49	156.52	264.28	618.12	0.81
70000.000	1000.00	0.0	0.0	19000.00	693.40	712.29	712.29	19.14	138.52	315.92	1439.05	5.61
70000.000	1000.00	0.0	0.0	4361.00	692.00	706.60	0.0	8.18	473.03	509.97	533.04	0.0
70000.000	1000.00	0.0	0.0	6590.00	692.00	708.51	0.0	10.92	473.01	509.99	603.45	1.91
70000.000	1000.00	0.0	0.0	7785.00	692.00	709.19	0.0	12.37	207.00	509.99	643.90	0.68
70000.000	1000.00	0.0	0.0	19000.00	692.00	717.01	0.0	8.37	139.80	881.30	4456.10	7.82

SECID	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
74150.000	20.00	708.60	708.30	4361.00	692.00	706.60	0.0	8.19	473.03	509.97	532.75	0.0
74150.000	20.00	708.60	708.30	6590.00	692.00	709.11	0.0	10.52	308.50	509.99	638.01	2.51
74150.000	20.00	708.60	708.30	7785.00	692.00	709.36	0.0	12.23	303.15	509.99	660.99	0.24
74150.000	20.00	708.60	708.30	19000.00	692.00	717.10	0.0	8.22	138.15	886.58	4529.80	7.75
74250.000	90.00	0.0	0.0	4361.00	693.50	707.81	0.0	2.65	124.47	811.05	3315.26	0.0
74250.000	90.00	0.0	0.0	6590.00	693.50	711.03	0.0	2.16	71.22	907.81	5782.79	3.23
74250.000	90.00	0.0	0.0	7785.00	693.50	711.93	0.0	2.22	68.53	925.41	6544.73	0.90
74250.000	90.00	0.0	0.0	19000.00	693.50	717.67	0.0	2.81	32.73	1039.56	11871.47	5.74
76000.000	1750.00	0.0	0.0	4487.00	696.50	708.96	0.0	2.99	227.78	930.22	2746.27	0.0
76000.000	1750.00	0.0	0.0	6747.00	696.50	711.58	0.0	2.43	209.98	940.51	4629.93	2.63
76000.000	1750.00	0.0	0.0	7249.00	696.50	712.46	0.0	2.45	204.03	943.95	5276.30	0.88
76000.000	1750.00	0.0	0.0	19000.00	696.50	718.17	0.0	2.89	161.18	1004.48	9720.97	5.71
78080.000	2000.00	0.0	0.0	4630.00	699.00	712.27	0.0	6.21	587.67	992.01	1219.48	0.0
78080.000	2000.00	0.0	0.0	6925.00	699.00	713.44	0.0	6.83	475.86	1014.98	1786.66	1.17
78080.000	2000.00	0.0	0.0	8134.00	699.00	714.17	0.0	6.60	425.09	1029.46	2208.94	0.74
78080.000	2000.00	0.0	0.0	19500.00	699.00	719.47	0.0	5.66	167.27	1133.44	6305.70	5.30
78169.000	89.00	0.0	0.0	4630.00	699.30	712.06	0.0	10.16	357.01	392.99	455.59	0.0
78169.000	89.00	0.0	0.0	6925.00	699.30	712.04	0.0	15.23	357.01	392.99	454.59	-0.02
78169.000	89.00	0.0	0.0	8134.00	699.30	715.41	715.41	11.34	37.80	484.83	1170.72	3.37
78169.000	89.00	0.0	0.0	19500.00	699.30	719.21	0.0	11.07	0.0	500.00	3062.91	3.80
78191.000	22.00	712.80	711.60	4630.00	699.30	712.71	0.0	9.66	357.01	392.99	479.32	0.0
78191.000	22.00	712.80	711.60	6925.00	699.30	712.04	0.0	15.22	357.01	392.99	454.91	-0.67
78191.000	22.00	712.80	711.60	8134.00	699.30	715.50	0.0	11.11	30.71	489.64	1212.20	3.46
78191.000	22.00	712.80	711.60	19500.00	699.30	719.57	0.0	10.36	0.0	500.00	3237.91	4.07
78280.000	89.00	0.0	0.0	4630.00	702.20	714.44	0.0	2.34	5.34	1090.38	3968.04	0.0
78280.000	89.00	0.0	0.0	6925.00	702.20	716.11	0.0	2.20	0.0	1111.36	5812.11	1.67
78280.000	89.00	0.0	0.0	8134.00	702.20	717.26	0.0	2.02	0.0	1125.74	7098.52	1.15
78280.000	89.00	0.0	0.0	19500.00	702.20	720.57	0.0	2.91	0.0	1130.00	10844.82	3.31
80430.000	2150.00	0.0	0.0	1461.00	706.10	716.27	0.0	2.95	145.16	384.81	702.16	0.0
80430.000	2150.00	0.0	0.0	2198.00	706.10	717.42	0.0	3.00	118.50	388.56	992.22	1.16
80430.000	2150.00	0.0	0.0	2581.00	706.10	718.23	0.0	2.81	89.64	391.18	1223.23	0.81
80430.000	2150.00	0.0	0.0	6200.00	706.10	721.89	0.0	3.29	73.34	439.79	2467.88	3.66
80518.000	88.00	0.0	0.0	1461.00	707.10	716.34	0.0	4.21	221.06	258.94	347.05	0.0
80518.000	88.00	0.0	0.0	2198.00	707.10	717.38	0.0	5.69	221.05	258.95	386.31	1.04
80518.000	88.00	0.0	0.0	2581.00	707.10	718.08	0.0	6.25	221.04	258.95	413.01	0.70
80518.000	88.00	0.0	0.0	6200.00	707.10	720.60	0.0	12.19	221.03	258.97	508.66	2.52
80543.000	25.00	725.40	723.70	1461.00	707.10	716.34	0.0	4.21	221.06	258.94	347.05	0.0
80543.000	25.00	725.40	723.70	2198.00	707.10	717.38	0.0	5.69	221.05	258.95	386.30	1.04
80543.000	25.00	725.40	723.70	2581.00	707.10	718.08	0.0	6.25	221.04	258.95	413.00	0.70
80543.000	25.00	725.40	723.70	6200.00	707.10	720.61	0.0	12.19	221.03	258.97	508.71	2.52
80630.000	87.00	0.0	0.0	1461.00	706.90	716.53	0.0	6.31	169.03	253.08	262.26	0.0
80630.000	87.00	0.0	0.0	2198.00	706.90	717.79	0.0	7.09	126.86	254.63	396.25	1.26
80630.000	87.00	0.0	0.0	2581.00	706.90	718.65	0.0	6.75	115.25	286.15	530.47	0.85
80630.000	87.00	0.0	0.0	6200.00	706.90	723.26	0.0	6.30	81.25	324.22	1487.31	4.61

SECNO	YLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
82650.000	2020.00	0.0	0.0	1453.00	715.00	724.68	0.0	3.41	41.39	278.29	702.13	0.0
82650.000	2020.00	0.0	0.0	2190.00	715.00	725.71	0.0	3.64	37.97	283.23	949.27	1.03
82650.000	2020.00	0.0	0.0	2572.00	715.00	726.07	0.0	3.85	36.78	284.96	1037.80	0.36
82650.000	2020.00	0.0	0.0	5600.00	715.00	728.70	0.0	4.70	27.98	297.68	1721.01	2.64
84200.000	1550.00	0.0	0.0	1422.00	719.60	729.23	0.0	4.44	73.41	291.41	466.11	0.0
84200.000	1550.00	0.0	0.0	2135.00	719.60	730.07	0.0	4.82	27.49	307.84	680.86	0.84
84200.000	1550.00	0.0	0.0	2523.00	719.60	730.49	0.0	4.90	26.69	316.17	801.80	0.42
84200.000	1550.00	0.0	0.0	4800.00	719.60	732.63	0.0	5.02	22.65	356.54	1469.83	2.14
84265.000	65.00	0.0	0.0	1422.00	720.50	729.55	0.0	1.52	489.29	729.36	1679.63	0.0
84265.000	65.00	0.0	0.0	2135.00	720.50	730.40	0.0	1.87	480.24	744.86	2034.61	0.86
84265.000	65.00	0.0	0.0	2523.00	720.50	730.82	0.0	2.03	475.81	752.44	2220.61	0.42
84265.000	65.00	0.0	0.0	4800.00	720.50	732.91	0.0	2.61	453.69	790.30	3272.40	2.09
84335.000	70.00	742.60	731.50	1422.00	720.50	734.93	0.0	0.56	432.26	826.99	4486.81	0.0
84335.000	70.00	742.60	731.50	2135.00	720.50	730.41	0.0	1.87	480.20	744.93	2036.26	-4.52
84335.000	70.00	742.60	731.50	2523.00	720.50	730.83	0.0	2.03	475.76	752.52	2222.68	0.42
84335.000	70.00	742.60	731.50	4800.00	720.50	744.80	0.0	0.63	197.79	1005.82	13300.28	13.97
84400.000	65.00	0.0	0.0	1422.00	721.00	734.93	0.0	1.05	45.28	341.76	2052.33	0.0
84400.000	65.00	0.0	0.0	2135.00	721.00	730.39	0.0	3.96	67.81	320.15	783.75	-4.54
84400.000	65.00	0.0	0.0	2523.00	721.00	730.81	0.0	4.19	58.63	327.39	894.30	0.42
84400.000	65.00	0.0	0.0	4800.00	721.00	744.79	0.0	1.31	0.0	392.52	5430.09	13.98
ARMY OR SWCC STUDY												
86350.000	1950.00	0.0	0.0	1404.00	729.00	735.29	735.29	11.68	196.91	225.82	120.16	0.0
86350.000	1950.00	0.0	0.0	2128.00	729.00	738.63	737.57	5.03	124.25	371.30	636.87	3.34
86350.000	1950.00	0.0	0.0	2505.00	729.00	739.04	737.79	5.00	123.30	382.25	742.41	0.41
86350.000	1950.00	0.0	0.0	3500.00	729.00	745.00	0.0	1.60	90.29	502.68	2813.15	5.96
86434.000	84.00	0.0	0.0	1404.00	729.00	738.03	0.0	3.11	216.86	312.65	568.16	0.0
86434.000	84.00	0.0	0.0	2128.00	729.00	739.12	0.0	3.98	210.43	414.36	708.63	1.08
86434.000	84.00	0.0	0.0	2505.00	729.00	739.51	0.0	4.37	208.19	429.12	789.69	0.39
86434.000	84.00	0.0	0.0	3500.00	729.00	745.03	0.0	2.07	117.58	570.10	2681.04	5.53
86466.000	32.00	738.60	737.80	1404.00	729.00	738.60	0.0	2.85	213.53	394.01	623.55	0.0
86466.000	32.00	738.60	737.80	2128.00	729.00	739.93	0.0	3.43	205.72	445.32	886.19	1.33
86466.000	32.00	738.60	737.80	2505.00	729.00	740.35	0.0	3.72	203.20	461.87	992.83	0.43
86466.000	32.00	738.60	737.80	3500.00	729.00	745.16	0.0	2.03	114.88	572.47	2742.37	4.80
86550.000	84.00	0.0	0.0	1404.00	729.70	738.75	0.0	1.89	58.43	437.09	1337.63	0.0
86550.000	84.00	0.0	0.0	2128.00	729.70	740.11	0.0	1.95	52.87	441.49	1856.43	1.36
86550.000	84.00	0.0	0.0	2505.00	729.70	740.56	0.0	2.07	51.02	442.95	2031.65	0.45
86550.000	84.00	0.0	0.0	3500.00	729.70	745.19	0.0	1.37	30.73	458.02	3926.88	4.64
874.300	880.00	0.0	0.0	1379.00	732.00	739.82	739.82	7.96	1268.08	1448.66	249.66	0.0
874.300	880.00	0.0	0.0	2207.00	732.00	741.18	0.0	6.02	1195.23	1510.12	603.71	1.35
874.300	880.00	0.0	0.0	2556.00	732.00	741.66	0.0	5.43	1190.41	1523.03	759.53	0.48
874.300	880.00	0.0	0.0	3344.00	732.00	745.42	0.0	2.03	1152.76	1575.84	2214.63	3.76
883.100	880.00	0.0	0.0	1379.00	734.30	744.59	0.0	2.20	1184.08	1540.02	977.73	0.0
883.100	880.00	0.0	0.0	2207.00	734.30	745.36	0.0	2.62	1176.36	1559.44	1263.25	0.77
883.100	880.00	0.0	0.0	2556.00	734.30	745.63	0.0	2.77	1173.74	1561.26	1364.24	0.26
883.100	880.00	0.0	0.0	3344.00	734.30	746.53	0.0	2.74	1164.73	1567.53	1720.35	0.91

AZ

BA

BB

W*

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	END3T	AREA	DIFWSP
89200.000	890.00	0.0	0.0	1379.00	736.60	746.43	0.0	2.70	1188.74	1527.52	815.80	0.0
89200.000	890.00	0.0	0.0	2207.00	736.60	747.41	0.0	2.86	1178.80	1554.16	1170.52	0.98
89200.000	890.00	0.0	0.0	2556.00	736.60	747.76	0.0	2.93	1175.43	1560.09	1298.97	0.35
89200.000	890.00	0.0	0.0	3344.00	736.60	748.48	0.0	3.04	1168.28	1565.06	1578.38	0.72
91302.000	2102.00	0.0	0.0	1329.00	749.80	757.02	754.81	3.98	1456.35	1557.83	334.32	0.0
91302.000	2102.00	0.0	0.0	2118.00	749.80	757.97	755.92	4.91	1454.28	1559.29	431.15	0.94
91302.000	2102.00	0.0	0.0	2453.00	749.80	758.34	756.28	5.21	1453.45	1559.88	470.95	0.38
91302.000	2102.00	0.0	0.0	3207.00	749.80	759.02	756.81	5.89	1451.06	1560.95	544.46	0.68
91352.000	50.00	0.0	0.0	1329.00	750.00	757.64	0.0	3.53	1455.43	1558.47	376.70	0.0
91352.000	50.00	0.0	0.0	2118.00	750.00	758.70	0.0	4.34	1453.11	1560.12	487.53	1.06
91352.000	50.00	0.0	0.0	2453.00	750.00	759.10	0.0	4.62	1452.22	1560.75	530.98	0.40
91352.000	50.00	0.0	0.0	3207.00	750.00	759.86	0.0	5.21	1427.34	1561.94	622.50	0.76
91377.000	25.00	0.0	0.0	1329.00	750.50	757.62	0.0	5.32	1500.00	1575.81	321.92	0.0
91377.000	25.00	0.0	0.0	2118.00	750.50	758.61	0.0	6.99	1500.00	1583.86	401.03	0.99
91377.000	25.00	0.0	0.0	2453.00	750.50	758.98	0.0	7.57	1500.00	1586.89	432.90	0.37
91377.000	25.00	0.0	0.0	3207.00	750.50	759.68	0.0	8.77	1500.00	1592.55	495.53	0.69
91403.000	26.00	760.60	759.10	1329.00	750.50	757.62	0.0	5.32	1500.00	1575.80	321.82	0.0
91403.000	26.00	760.60	759.10	2118.00	750.50	760.00	0.0	5.49	1500.00	1595.18	525.94	2.39
91403.000	26.00	760.60	759.10	2453.00	750.50	760.91	0.0	5.58	1500.00	1642.20	609.40	0.81
91403.000	26.00	760.60	759.10	3207.00	750.50	761.69	0.0	6.16	1467.22	1722.76	791.99	0.88
91428.000	25.00	0.0	0.0	1329.00	750.20	757.91	0.0	3.46	1455.28	1558.58	383.81	0.0
91428.000	25.00	0.0	0.0	2118.00	750.20	760.27	0.0	3.31	1419.49	1575.33	652.99	2.36
91428.000	25.00	0.0	0.0	2453.00	750.20	761.08	0.0	3.28	1389.50	1632.23	814.79	0.81
91428.000	25.00	0.0	0.0	3207.00	750.20	762.00	0.0	3.52	1355.52	1693.41	1081.20	0.92
91478.000	50.00	0.0	0.0	1329.00	750.40	758.34	0.0	3.26	1454.79	1558.93	407.14	0.0
91478.000	50.00	0.0	0.0	2118.00	750.40	760.50	0.0	3.29	1418.56	1577.22	656.90	2.16
91478.000	50.00	0.0	0.0	2453.00	750.40	761.27	0.0	3.29	1390.03	1631.28	811.33	0.77
91478.000	50.00	0.0	0.0	3207.00	750.40	762.18	0.0	3.54	1356.25	1692.09	1074.52	0.91
93206.000	1728.00	0.0	0.0	456.00	771.20	775.48	774.60	6.71	1350.29	1379.06	74.24	0.0
93206.000	1728.00	0.0	0.0	920.00	771.20	776.02	776.02	10.09	1347.13	1379.34	90.60	0.54
93206.000	1728.00	0.0	0.0	1003.00	771.20	776.54	776.54	10.47	1344.02	1379.61	108.41	0.53
93206.000	1728.00	0.0	0.0	1444.00	771.20	777.87	777.87	9.89	1336.22	1424.22	190.15	1.32
93256.000	50.00	0.0	0.0	456.00	771.70	777.05	0.0	4.76	1344.03	1379.61	108.39	0.0
93256.000	50.00	0.0	0.0	820.00	771.70	778.58	0.0	5.20	1334.94	1429.17	210.02	1.53
93256.000	50.00	0.0	0.0	1003.00	771.70	779.11	0.0	5.28	1331.82	1441.15	263.66	0.53
93256.000	50.00	0.0	0.0	1444.00	771.70	779.93	0.0	5.74	1326.99	1459.77	362.85	0.82
93306.000	50.00	0.0	0.0	456.00	772.20	777.32	0.0	5.51	1352.00	1369.00	82.74	0.0
93306.000	50.00	0.0	0.0	820.00	772.20	778.64	0.0	7.79	1352.00	1369.00	105.21	1.32
93306.000	50.00	0.0	0.0	1003.00	772.20	778.99	0.0	9.02	1352.00	1369.00	111.15	0.35
93306.000	50.00	0.0	0.0	1444.00	772.20	779.19	0.0	12.59	1352.00	1369.00	114.66	0.21
93334.000	28.00	781.00	779.40	456.00	772.20	777.32	0.0	5.51	1352.00	1369.00	82.76	0.0
93334.000	28.00	781.00	779.40	820.00	772.20	778.95	0.0	7.43	1352.00	1369.00	110.43	1.63
93334.000	28.00	781.00	779.40	1003.00	772.20	779.70	0.0	8.14	1352.00	1369.00	123.24	0.75
93334.000	28.00	781.00	779.40	1444.00	772.20	779.90	0.0	11.41	1352.00	1369.00	126.61	0.20

SECNO	YLCH	ELTRQ	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
93384.000	50.00	0.0	0.0	456.00	771.70	777.93	0.0	3.62	1338.76	1414.48	155.06	0.0
93384.000	50.00	0.0	0.0	820.00	771.70	780.01	0.0	3.16	1328.44	1461.88	375.30	2.08
93384.000	50.00	0.0	0.0	1003.00	771.70	780.95	0.0	2.89	1320.95	1482.99	513.47	0.93
93384.000	50.00	0.0	0.0	1444.00	771.70	782.26	0.0	2.04	1313.22	1508.49	748.90	1.31
93434.000	50.00	0.0	0.0	456.00	772.20	778.32	0.0	3.77	1339.46	1411.76	146.21	0.0
93434.000	50.00	0.0	0.0	820.00	772.20	780.21	0.0	3.52	1328.31	1454.67	333.79	1.89
93434.000	50.00	0.0	0.0	1003.00	772.20	781.08	0.0	3.23	1323.13	1474.63	455.80	0.88
93434.000	50.00	0.0	0.0	1444.00	772.20	782.37	0.0	3.19	1315.54	1502.55	673.90	1.28
941.430	709.00	0.0	0.0	394.00	777.30	781.85	0.0	5.48	1348.70	1379.20	82.25	0.0
941.430	709.00	0.0	0.0	692.00	777.30	783.02	0.0	6.92	1341.82	1402.69	122.59	1.17
941.430	709.00	0.0	0.0	842.00	777.30	783.41	0.0	7.57	1339.51	1411.58	145.64	0.39
941.430	709.00	0.0	0.0	1218.00	777.30	784.28	0.0	8.46	1334.37	1431.34	219.13	0.87
948.510	708.00	0.0	0.0	394.00	782.40	785.60	785.56	8.74	1356.66	1378.50	46.97	0.0
948.510	708.00	0.0	0.0	692.00	782.40	786.95	786.79	9.62	1348.69	1379.20	82.28	1.35
948.510	708.00	0.0	0.0	842.00	782.40	787.52	787.29	9.91	1345.35	1379.49	100.58	0.57
948.510	708.00	0.0	0.0	1218.00	782.40	788.65	788.65	10.53	1338.70	1414.68	155.75	1.13
95559.000	708.00	0.0	0.0	394.00	787.40	791.32	0.0	5.00	1100.49	1130.92	78.84	0.0
95559.000	708.00	0.0	0.0	692.00	787.40	792.38	0.0	6.13	1094.78	1133.27	114.82	1.05
95559.000	708.00	0.0	0.0	842.00	787.40	792.80	0.0	6.59	1092.27	1136.04	131.88	0.42
95559.000	708.00	0.0	0.0	1218.00	787.40	793.63	0.0	7.63	1087.33	1153.15	177.34	0.83

SUMMARY OF ERRORS

CAUTION SECNO=67680.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=67680.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=67680.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=67680.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=67680.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=67680.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=67680.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=67680.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=67771.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=67771.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=67771.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=67789.000 PROFILE= 4 HYDRAULIC JUMP O.S.

CAUTION SECNO=74050.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=74050.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=74050.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=74050.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=74050.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=74050.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=74050.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=74050.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=74050.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=78169.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=78169.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=84335.000 PROFILE= 1 HYDRAULIC JUMP U.S.

CAUTION SECNO=86350.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=86350.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=86350.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 874.300 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 874.300 PROFILE= 1 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=93206.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93206.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93206.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=93206.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93206.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93206.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=93206.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93206.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93206.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 948.510 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 948.510 PROFILE= 4 MINIMUM SPECIFIC ENERGY

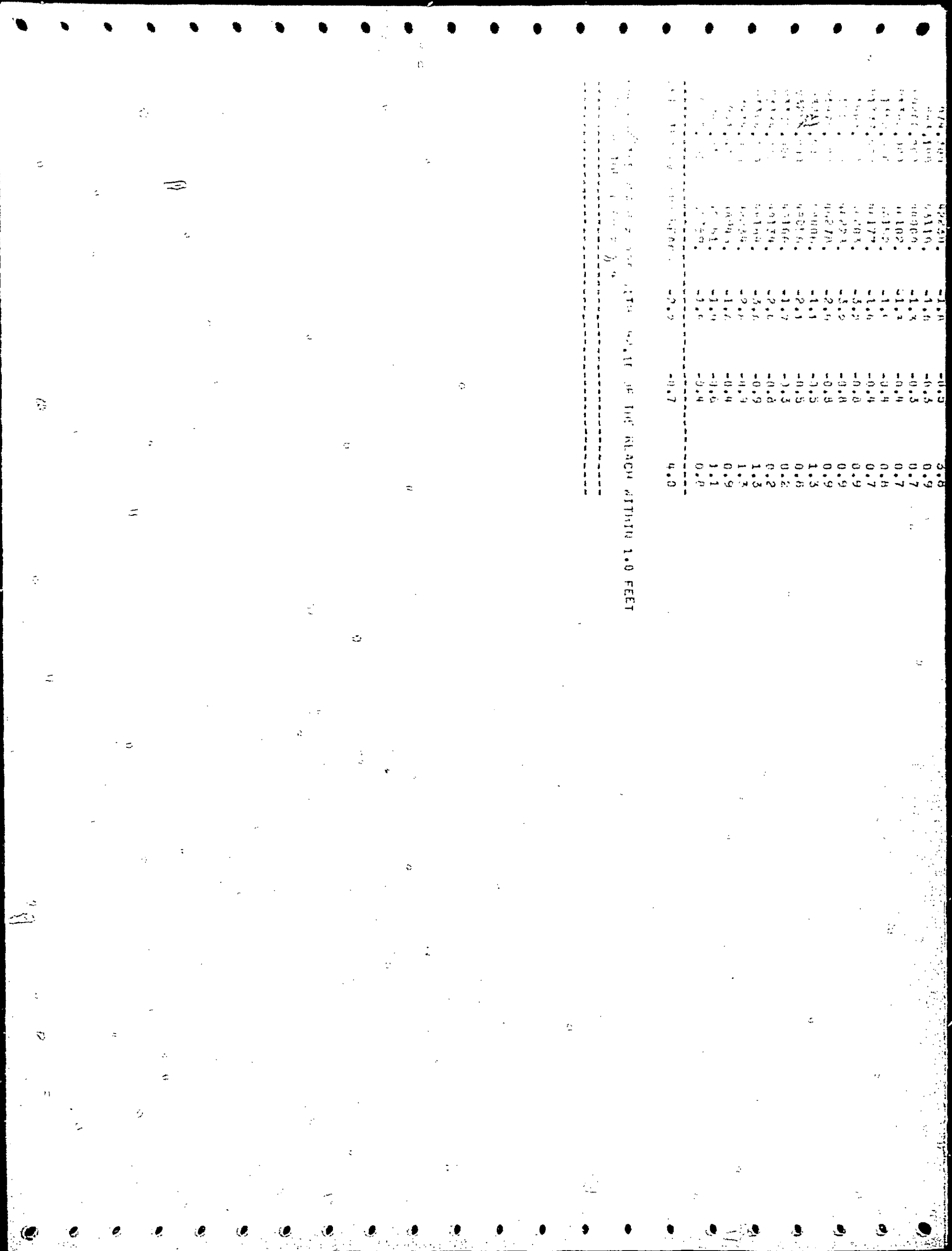
FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10'	20'	0.20'
45200.000	0.	-2.9	-0.9	1.0
45250.000	50.	-2.9	-0.9	1.9
45275.000	75.	-2.9	-0.9	2.0
45300.000	100.	-3.1	-0.9	1.8
45350.000	150.	-3.0	-0.8	1.9
45375.000	175.	-2.6	-0.8	2.5
45400.000	200.	-2.6	-0.8	2.5
47400.000	2200.	-2.7	-0.8	3.8
49600.000	4400.	-2.7	-0.9	4.6
50900.000	5700.	-2.7	-0.9	4.8
53500.000	8300.	-2.3	-0.8	4.7
55600.000	10400.	-2.1	-0.7	4.4
57400.000	12200.	-2.0	-0.6	3.7
57490.000	12290.	-2.0	-0.6	3.9
57511.000	12311.	-2.0	-0.6	3.9
57600.000	12400.	-2.2	-0.7	3.8
61100.000	15900.	-2.4	-0.8	4.3
63200.000	18000.	-2.4	-0.8	4.4
64600.000	19400.	-2.6	-0.8	4.9
65800.000	20600.	-2.5	-0.8	4.9
67680.000	22480.	-1.8	-0.4	5.0
67771.000	22571.	-1.0	-0.2	6.0
67789.000	22589.	-1.0	0.0	6.2
67880.000	22680.	-3.5	-1.1	4.3
69700.000	24500.	-2.6	-0.9	4.5
71650.000	26450.	-2.2	-0.7	4.5
724.500	27250.	-2.0	-0.7	4.4
732.500	28050.	-1.7	-0.6	4.2
74050.000	28850.	-1.9	-0.8	5.6
74140.000	28940.	-2.6	-0.7	7.8
74160.000	28960.	-2.8	-0.2	7.7
74250.000	29050.	-4.1	-0.9	5.7
76000.000	30800.	-3.5	-0.9	5.7
78080.000	32880.	-1.0	-0.7	5.3
78160.000	32969.	-3.4	-3.4	3.8
78191.000	32991.	-2.8	-3.5	4.1
78280.000	33080.	-2.7	-1.2	3.3
80450.000	35230.	-2.0	-0.8	3.7
80518.000	35318.	-1.7	-0.7	2.5
80543.000	35343.	-1.7	-0.7	2.5
80630.000	35430.	-2.1	-0.9	4.6
82650.000	37450.	-1.4	-0.4	2.0
84200.000	39000.	-1.3	-0.4	2.1
84265.000	39065.	-1.3	-0.4	2.1
84335.000	39135.	4.1	-0.4	14.0
84400.000	39200.	4.1	-0.4	14.0
86350.000	41150.	-3.7	-0.4	6.0
86434.000	41234.	-1.5	-0.4	5.5
86466.000	41266.	-1.8	-0.4	4.8
86550.000	41350.	-1.8	-0.4	4.6

DATE	TIME	DEPTH	TEMP	WIND	WAVE	SEA	WIND DIR	WAVE DIR	SEA DIR
07/10/61	08:00	422.50	-1.6						3.8
07/10/61	08:10	421.10	-1.6						0.9
07/10/61	08:20	420.00	-1.8						0.7
07/10/61	08:30	418.00	-2.1						0.7
07/10/61	08:40	415.00	-1.6						0.8
07/10/61	08:50	412.00	-1.6						0.7
07/10/61	09:00	408.00	-3.2						0.9
07/10/61	09:10	405.00	-3.2						0.9
07/10/61	09:20	402.00	-2.9						0.9
07/10/61	09:30	398.00	-1.1						1.3
07/10/61	09:40	395.00	-2.1						0.8
07/10/61	09:50	391.00	-1.7						0.2
07/10/61	10:00	387.00	-2.0						0.2
07/10/61	10:10	383.00	-3.0						1.3
07/10/61	10:20	379.00	-2.2						1.3
07/10/61	10:30	375.00	-1.7						0.9
07/10/61	10:40	371.00	-1.7						1.1
07/10/61	10:50	367.00	-1.6						0.0
07/10/61	11:00	363.00	-2.2						4.0

ALL DATA ARE CORRECTED TO 1.0 FEET



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

EU

THE CARD READER IS INTERMITTENTLY DROPPING 9 PUNCHES. THE REPAIR PERSON IS SCHEDULED TO WORK ON THE EQUIPMENT TOMMOROW MORNING (02/17/78). THIS UNUSUAL DELAY IS CAUSED BY A RECENT TURN-OVER IN THE MAINTENANCE STAFF AT GENERAL AUTOMATION, INC. PLEASE BE CAUTIOUS OF COMPUTER RESULTS TODAY. NES

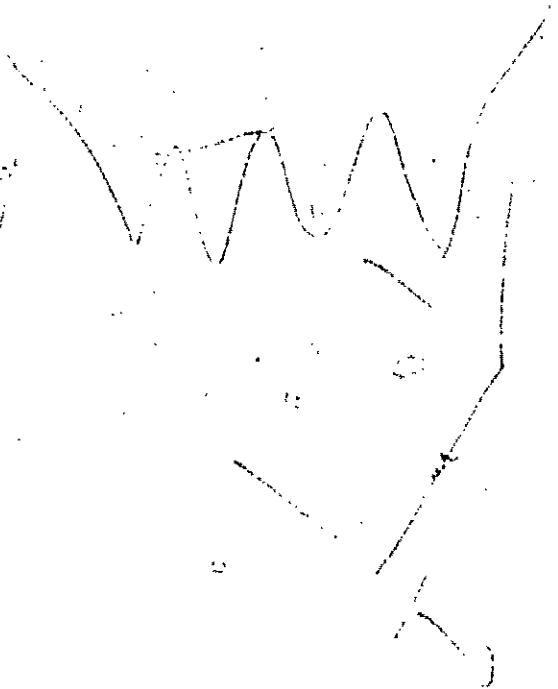
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*****
* MOORE, GARDNER AND ASSOCIATES INC.                                02/20/78
*
* USERS NAME M KEZIAH
*
* QUEUE INFORMATION PRIORITY 0
*
* JOB NUMBER 00001 DATA ENTRY STATION 00
* LOG NUMBER 00001 DESTINATION STATION 00
* SUSPENSTON 00002
*
*
* RUN TIMES H M S I/O INFORMATION
*
* CARD INPUT 0-01-03 00634 CARDS INPUT
* LINE OUTPUT 0-07-40 04600 LINES OUTPUT/PER COPY
* CPU 0-47-49 00001 COPY REQUESTED
* TOTAL 0-56-32
*
* JOB ENDED BECAUSE, ABORT CODE 0
* SPECIFIED TASKS ARE COMPLETED.
*
*****
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// JOB, M KEZIAH, P=0

SYSTEM REQUIREMENTS
SPECIFIED

NO REQUIREMENTS SPECIFIED
```

*Grants Creek
Highway
2/20/78*



GRANTS CREEK FLOODWAY

X X X X Y X Y X

GRANTS CREEK STA 5800 CROSS SECTION A

DESIRED Q

AVER SLOPE

MANNINGS N

9596.00

0.0008

0.472

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	648.70	42.00	646.32	113.76	634.75
114.07	634.70	115.00	634.55	180.00	634.70
180.53	634.55	195.00	630.45	219.00	628.49
252.00	627.82	252.83	627.70	253.60	627.59
254.22	627.50	255.89	627.26	256.31	627.20
260.48	626.60	262.57	626.30	262.57	626.30
263.12	626.22	263.26	626.20	265.00	625.95
297.69	626.20	300.31	626.22	310.77	626.30
310.77	626.30	350.00	626.60	350.30	626.30
350.30	626.30	350.38	626.22	350.40	626.20
350.65	625.95	351.34	625.25	352.38	624.20
352.38	624.20	352.88	623.70	355.00	620.56
400.00	620.50	400.05	620.56	402.84	623.70
403.28	624.20	403.28	624.20	404.22	625.25
404.84	625.95	405.06	626.20	405.08	626.22
405.15	626.30	405.15	626.30	405.41	626.60
405.95	627.20	406.00	627.26	408.08	627.20
428.85	626.60	439.23	626.30	439.23	626.30
442.00	626.22	445.91	626.30	445.91	626.30
460.58	626.60	489.93	627.20	492.86	627.26
504.60	627.50	509.00	627.59	513.26	627.50
524.60	627.26	527.44	627.20	555.81	626.60
570.00	626.30	572.50	626.60	577.50	627.20
578.00	627.26	580.00	627.50	628.00	627.26
640.00	627.20	646.00	626.60	649.00	626.30
649.00	626.30	649.80	626.22	650.00	626.20
693.69	625.95	835.00	625.25	1014.52	624.20
1014.52	624.20	1100.00	623.70	1130.00	624.20
1250.00	624.20	1325.00	625.25	1375.00	625.95
1392.86	626.20	1394.29	626.22	1400.00	626.30
1421.43	626.60	1464.29	627.20	1468.57	627.26
1485.71	627.50	1492.14	627.59	1500.00	627.70
1501.45	627.82	1509.52	628.49	1533.16	630.45
1582.50	634.55	1584.40	634.70	1585.00	634.75
1585.00	646.32	1585.00	646.70	0.00	0.00

111

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9596.00	0.000	0.072	630.04

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
626.20	1.00	350.00	406.00

ENCROACHMENT STATIONS ARE SET AT BANKS

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
648.70	151039.57	33500.68	1606.82
646.72	126461.32	29778.35	1562.37
634.75	30228.94	12340.97	1478.11
634.70	29941.73	12267.44	1477.20
634.55	30002.71	12052.01	1408.89
630.45	10877.41	6434.56	1344.25
628.49	4751.50	3858.46	1296.45
627.82	3205.02	3007.57	1255.34
627.70	2947.00	2857.77	1253.05
627.59	2728.34	2721.06	1244.42
627.50	2567.43	2610.30	1228.70
627.26	2234.20	2327.84	1136.76
627.20	2159.87	2260.74	1111.62
626.60	1379.02	1638.35	974.17
626.30	1099.06	1363.93	865.79
626.22	1028.87	1296.04	841.34
626.20	1010.46	1277.36	836.90
625.95	835.83	1077.05	735.22
625.25	421.16	638.37	546.98
624.20	136.23	203.61	169.57
623.70	177.15	148.92	52.70
620.56	0.08	1.32	44.08
620.50	0.00	0.00	0.00

4.2 = V

358

GRANTS CREEK FLOODWAY

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

GRANTS CREEK STA 8760 CROSS SECTION B

DESIGNED 0

AVER SLOPE

MANNINGS N

9411.00

0.0000

0.072

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
50.00	647.86	50.00	640.90	105.00	639.65
117.21	635.85	120.00	635.20	150.00	634.40
212.80	632.59	235.00	631.95	235.73	631.68
235.81	631.65	236.11	631.54	236.89	631.25
236.95	631.23	238.78	630.55	239.05	630.45
239.32	630.35	240.00	630.10	330.00	630.10
400.00	629.50	429.72	630.10	429.72	630.10
442.11	630.35	447.06	630.45	452.02	630.55
485.71	631.23	486.70	631.25	501.06	631.54
506.51	631.65	508.00	631.68	509.25	631.65
513.82	631.54	525.38	631.25	526.72	631.23
555.00	630.55	581.79	631.23	582.58	631.25
594.00	631.54	594.22	631.25	594.23	631.23
594.74	630.55	594.81	630.45	594.89	630.35
595.07	630.10	595.07	630.10	595.52	629.50
595.57	629.43	595.78	629.15	596.40	628.32
600.00	623.50	637.00	623.07	637.84	623.50
647.29	628.32	648.92	629.15	649.47	629.43
649.61	629.50	650.78	630.10	650.78	630.10
651.27	630.35	651.47	630.45	651.67	630.55
653.00	631.23	653.24	631.25	656.65	631.54
657.94	631.65	658.29	631.68	661.47	631.95
669.00	632.59	681.42	631.95	686.66	631.68
687.24	631.65	689.37	631.54	695.00	631.25
803.75	631.54	845.00	631.65	867.00	631.54
925.00	631.25	929.00	631.23	1065.00	630.55
1085.00	630.45	1105.00	630.35	1164.24	630.10
1164.24	630.10	1306.41	629.50	1323.00	629.43
1330.32	629.15	1352.00	628.32	1360.96	629.15
1363.99	629.43	1364.74	629.50	1371.22	630.10
1371.22	630.10	1373.92	630.35	1375.00	630.45
1388.85	630.35	1423.46	630.10	1423.46	630.10
1506.54	629.50	1516.23	629.43	1555.00	629.15
1560.01	629.43	1561.27	629.50	1572.01	630.10
1572.01	630.10	1576.49	630.35	1578.28	630.45
1580.07	630.55	1592.25	631.23	1592.61	631.25
1597.81	631.54	1599.78	631.65	1600.31	631.68
1605.15	631.95	1616.61	632.59	1649.03	634.40

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1663.36	635.20	1675.00	635.05	1694.30	639.65
1700.65	640.90	1736.00	647.86	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9411.00	0.000	0.072	634.61

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
634.15	1.00	594.00	653.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5486.54	0.00	286.64	1417.64

ENCROACHMENT DISTANCE FROM LEFT BANK = 307.36 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 764.64 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
647.86	105960.82	27699.13	1701.62
640.90	43577.46	16087.59	1658.63
639.65	35712.82	14062.62	1597.15
635.05	14393.53	8084.29	1564.12
635.20	11598.43	7076.61	1550.17
634.40	8634.10	5859.65	1505.81
632.59	3346.62	3232.58	1410.52
631.95	2020.40	2351.29	1356.84

1.7 = V

637

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
703.00	628.13	703.14	627.95	703.22	627.85
703.40	627.62	703.59	627.37	703.76	627.15
704.11	626.70	705.78	624.55	706.00	624.26
745.00	624.55	747.05	626.70	747.48	627.15
747.69	627.37	747.92	627.62	748.14	627.85
748.24	627.95	748.41	628.13	750.00	629.80
752.40	629.92	756.00	630.10	756.40	630.12
770.00	630.00	779.71	630.12	780.00	630.10
780.73	630.12	805.70	630.80	809.00	630.89
815.00	631.85	845.00	632.65	858.98	633.65
923.00	638.23	978.50	644.20	1005.00	647.05

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9411.00	0.006	0.067	631.99

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
634.76	1.00	692.00	750.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4210.52	0.00	293.08	841.70

ENCROACHMENT DISTANCE FROM LEFT BANK = 398.92 FEET
ENCROACHMENT DISTANCE FROM RIGHT BANK = 91.70 FEET

2.22

106

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
776.62	631.52	776.98	631.90	777.55	632.50
777.92	632.90	778.00	632.98	788.01	634.51
792.00	635.12	795.01	635.92	801.00	637.51
812.00	635.92	862.50	635.12	901.00	634.51
933.82	635.12	976.87	635.92	1062.43	637.51
1594.62	647.40	1600.00	647.50	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9439.00	0.000	0.067	644.37

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
640.25	1.00	732.00	778.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4562.93	0.00	454.31	1062.70

ENCROACHMENT DISTANCE FROM LEFT BANK = 277.69 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 284.70 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
647.50	13287.53	13759.25	1606.87
647.40	13061.15	13599.52	1601.39
637.51	1235.09	2353.54	686.14
635.92	626.36	1403.44	521.69

N=1.2

752

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9439.00	0.008	0.067	636.36

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
641.50	1.00	405.00	450.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
3651.05	0.00	179.96	515.60

ENCROACHMENT DISTANCE FROM LEFT BANK = 225.04 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 65.60 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P.
647.90	72769.97	6799.65	560.48
637.10	11777.21	1917.28	363.43
636.20	8932.45	1603.61	352.02
632.95	2109.33	611.53	275.49
632.90	2036.79	598.17	274.73
632.45	1422.03	479.01	270.25
631.90	1288.73	364.99	158.76
631.49	1029.72	305.88	142.91
631.00	727.03	241.26	133.09
630.51	692.12	191.64	80.58
630.49	700.74	190.16	77.58
629.90	734.58	156.96	44.74
625.95	12.42	12.07	33.39

431

2651

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
641.70	1.00	1490.00	1550.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
12632.37	0.00	501.46	1861.17

ENCROACHMENT DISTANCE FROM LEFT BANK = 988.54 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 311.17 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
643.90	21654.62	16775.30	1986.12
641.90	15050.28	12991.97	1809.36
637.90	4775.85	6205.30	1595.83
636.50	3054.86	4249.12	1210.36
635.55	1944.57	3145.82	1123.97
635.42	1816.58	3001.56	1106.98
633.90	681.21	1510.57	866.14
633.50	469.92	1177.34	810.73
632.90	204.09	703.00	780.41
632.80	193.74	632.11	646.87
632.10	146.21	313.83	171.38
631.81	249.50	281.66	58.67
626.10	1.45	11.01	40.17
626.00	0.77	7.20	36.01
625.60	0.00	0.00	0.00

0.8 = 1

1620

GRANTS CRK FLOODWAY

Y X X X X X Y X

GRANTS CREEK STA 15400 CROSS SECTION G

DESIRED Q AVER SLOPE MANNINGS N
 9460.00 0.0008 0.067

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	647.95	0.00	647.90	390.00	637.90
402.50	637.65	490.00	635.90	889.75	633.95
900.00	633.90	905.13	633.95	1105.33	635.90
1105.33	635.90	1285.00	637.65	1292.00	635.90
1292.00	635.90	1299.80	633.95	1300.00	633.90
1309.60	631.98	1310.00	631.90	1315.00	629.95
1318.00	627.98	1322.17	626.95	1325.00	626.25
1345.00	626.95	1347.66	627.98	1352.75	629.95
1357.79	631.90	1358.00	631.98	1481.78	633.90
1481.78	633.90	1485.00	633.95	1500.00	635.90
1508.75	637.65	1510.00	637.90	1524.93	647.90
1525.00	647.95	0.00	0.00	0.00	0.00

COMPUTED Q AVER SLOPE MANNINGS N ELEVATION
 CFS FT
 9460.00 0.000 0.067 638.92

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
641.90	1.00	1311.00	1358.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION
 CONVEYANCE BY (14.42) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
8188.14	0.17	488.49	1483.60

ENCROACHMENT DISTANCE FROM LEFT BANK = 821.51 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 125.60 FEET

1121

1325

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
580.00	641.90	640.00	640.70	680.00	639.90
700.00	638.90	719.32	638.05	721.59	637.95
722.73	637.90	734.09	637.40	744.32	636.95
745.45	636.90	750.00	636.70	800.00	636.40
818.00	636.70	830.00	636.90	830.22	636.95
832.17	637.40	834.35	637.90	834.57	637.95
835.00	638.05	837.12	637.95	838.18	637.90
848.79	637.40	858.33	636.95	859.39	636.90
863.64	636.70	870.00	636.40	872.09	636.70
873.49	636.90	873.84	636.95	876.98	637.40
890.47	637.90	880.81	637.95	881.51	638.05
897.44	638.90	894.42	639.90	894.42	639.90
900.00	640.70	902.42	639.90	902.42	639.90
905.45	638.90	908.03	638.05	908.33	637.95
908.48	637.90	910.00	637.40	915.00	636.95
915.03	636.90	915.17	636.70	915.36	636.40
915.34	636.40	915.56	636.10	915.70	635.90
919.67	629.90	920.00	629.40	960.00	629.90
966.00	635.90	966.20	636.10	966.50	636.40
966.50	636.40	966.80	636.70	967.00	636.90
967.05	636.95	967.50	637.40	968.00	637.90
968.05	637.95	968.15	638.05	969.00	638.90
970.00	639.90	972.50	638.90	974.63	638.05
974.88	637.95	975.00	637.90	976.25	637.40
977.38	636.95	977.50	636.90	978.00	636.70
978.75	636.40	978.75	636.40	979.50	636.10
980.00	635.90	1000.00	636.10	1013.78	636.40
1013.78	636.40	1027.57	636.70	1036.76	636.90
1039.05	636.95	1059.73	637.40	1082.70	637.90
1085.00	637.95	1540.00	637.90	1540.07	637.95
1540.22	638.05	1541.49	638.90	1542.99	639.90
1542.99	639.90	1544.18	640.70	1545.97	641.90
1548.96	643.90	1551.94	645.90	1554.93	647.90
1555.00	647.95	1560.85	649.90	1566.85	651.90
1572.85	653.90	1578.85	655.90	1585.00	657.95

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9482.00	0.000	0.067	642.55

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
643.30	1.00	915.00	970.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5493.26	0.00	663.27	1439.20

ENCROACHMENT DISTANCE FROM LEFT BANK = 251.73 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 469.20 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
657.95	107655.37	24955.38	1602.10
655.90	85668.74	21712.43	1593.57
653.90	69319.67	18650.73	1497.22
651.90	53910.27	15751.03	1430.96
649.90	40825.94	13003.33	1344.51
647.95	29997.97	10499.43	1250.57
647.90	29741.36	10437.63	1248.23
645.90	22082.05	8160.76	1054.63
643.90	13801.75	6099.87	1030.94
641.90	7421.21	4114.94	977.30
640.70	4560.79	2992.85	915.14
639.90	3028.16	2289.19	865.50
638.90	1458.37	1451.71	829.33
638.05	518.94	768.35	796.27
637.95	436.01	689.86	789.81
637.90	729.92	662.31	329.29
637.40	541.68	515.22	274.91
636.95	420.63	406.68	222.39
636.90	409.05	396.06	217.05

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1286.29	639.90	1286.29	639.90	1299.57	641.45
1300.00	641.50	1301.39	641.45	1344.44	639.90
1344.44	639.90	1348.61	639.75	1352.78	639.60
1352.78	639.60	1358.33	639.40	1400.00	637.90
1437.50	639.40	1442.50	639.60	1442.50	639.60
1446.25	639.75	1450.00	639.90	1457.75	641.45
1458.00	641.50	1460.00	641.90	1478.75	643.15
1490.00	643.90	1495.00	644.40	1510.00	645.90
1511.00	645.95	1550.00	647.90	1620.00	649.90
1770.00	651.90	1960.00	653.90	1962.50	653.95
2060.00	655.00	2060.00	656.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9485.00	0.001	0.068	644.04

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATUR L	X-VALUE L BANK	X-VALUE R BANK
644.75	1.00	1190.00	1255.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5628.87	0.00	537.86	1429.41

ENCROACHMENT DISTANCE FROM LEFT BANK = 652.14 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 174.41 FEET

1245

5606

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1619.57	643.10	1621.06	643.45	1622.98	643.90
1622.98	643.90	1625.11	644.40	1631.49	645.90
1633.62	646.40	1637.87	647.40	1638.21	647.48
1640.00	647.90	1648.40	647.48	1650.00	647.40
1652.30	646.40	1653.45	645.90	1656.90	644.40
1658.05	643.90	1658.05	643.90	1659.08	643.45
1659.89	643.10	1661.03	642.60	1661.82	642.26
1662.41	642.00	1663.68	641.45	1666.32	640.30
1668.39	639.40	1670.00	638.70	1670.00	633.90
1700.00	632.90	1701.35	633.90	1707.84	638.70
1708.75	639.40	1710.00	640.30	1713.77	641.45
1715.57	642.00	1715.43	642.26	1717.54	642.60
1719.18	643.10	1720.33	643.45	1721.80	643.90
1721.80	643.90	1723.44	644.40	1728.36	645.90
1730.00	646.40	1737.50	645.90	1760.00	644.40
1762.63	643.90	1762.63	643.90	1765.00	643.45
1770.00	643.90	1786.88	643.45	1800.00	643.10
1801.52	642.60	1802.55	642.26	1803.33	642.00
1805.00	641.45	1813.41	640.30	1820.00	639.40
1824.23	640.30	1829.64	641.45	1832.23	642.00
1833.45	642.26	1835.05	642.60	1837.40	643.10
1839.05	643.45	1841.16	643.90	1841.16	643.90
1843.51	644.40	1850.57	645.90	1852.92	646.40
1857.62	647.40	1858.00	647.48	2070.00	647.90
2070.90	647.95	2106.00	649.90	2142.00	651.90
2178.00	653.90	2214.90	655.95	2250.00	657.90

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9505.00	0.000	0.068	648.09

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L. BANK	X-VALUE R. BANK
647.30	1.00	1670.00	1710.00

1700

16=1
 MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION
 CONVEYANCE BY (0.00) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
6116.52	0.00	746.48	1843.69

ENCROACHMENT DISTANCE FROM LEFT BANK = 923.52 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 133.69 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
657.90	66679.99	26522.25	2262.64
655.95	51608.71	22251.85	2142.47
653.90	38709.90	18072.00	1960.49
651.90	26881.16	14262.00	1874.40
649.90	16712.98	10594.00	1818.24
647.95	8944.67	7150.40	1738.05
647.90	8772.32	7064.15	1736.05
647.08	8162.10	6388.71	1504.57
647.40	7924.17	6269.47	1500.48
646.40	5150.54	4797.65	1466.82
645.90	3973.17	4076.48	1440.76
644.40	1400.13	2066.75	1260.53
643.90	804.07	1455.39	1205.29
643.45	518.26	989.09	886.87
643.10	381.32	724.38	644.99
642.60	317.94	488.63	316.60
642.26	318.15	404.36	197.04
642.00	458.48	369.23	90.75
641.45	395.35	326.12	83.09
640.30	311.50	251.81	62.24
639.40	273.67	209.11	47.50
638.70	225.99	181.73	44.57
633.90	4.78	15.68	31.70
632.90	0.00	0.00	0.00

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
648.20	1.00	1495.00	1545.00

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION CONVEYANCE BY (191.40) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5853.76	3.26	829.22	1881.32

ENCROACHMENT DISTANCE FROM LEFT BANK = 665.78 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 336.32 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
653.90	102981.66	17438.35	2308.57
651.90	65625.47	12978.35	2168.50
649.90	37932.70	8903.35	1923.46
647.90	18109.79	5358.35	1638.43
645.90	7697.53	2685.35	1051.22
644.45	4315.45	1502.57	586.50
644.30	4181.67	1419.77	533.63
643.90	4152.16	1239.42	384.02
643.40	3740.24	1069.62	310.77
642.90	2890.58	933.59	208.49
642.05	3558.87	785.47	154.73
641.90	3560.62	764.12	144.32
639.95	2244.83	525.52	113.09
637.95	1064.72	321.25	101.15
636.45	531.57	192.00	79.18
634.40	91.50	58.31	56.36
633.90	42.91	33.72	44.61
633.40	20.83	17.04	23.94
631.93	0.00	0.00	0.00

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	667.90	152.00	665.99	160.00	665.90
180.00	663.90	199.50	661.95	219.50	659.95
239.20	657.98	260.00	655.90	300.00	653.90
433.33	649.90	500.00	647.90	517.00	647.47
541.00	647.01	557.11	639.40	558.00	638.98
570.00	636.30	586.64	630.93	590.00	639.40
604.50	647.01	605.37	647.47	606.19	647.90
610.00	649.90	638.71	653.90	653.07	655.90
668.00	657.98	685.00	659.95	745.00	661.95
860.00	663.90	954.74	665.90	959.00	665.99
990.00	667.90	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9548.00	0.001	0.068	656.64

FRITING AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
653.90	1.00	558.00	590.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1799.83	0.00	406.41	615.10

ENCROACHMENT DISTANCE FROM LEFT BANK = 151.59 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 25.10 FEET

570

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
534.39	653.90	535.00	654.55	540.00	655.90
541.00	656.10	550.00	657.90	556.00	659.90
574.00	665.90	580.00	667.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9548.00	0.002	0.068	655.56

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
654.80	1.00	455.00	519.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1875.37	0.00	372.83	528.73

ENCROACHMENT DISTANCE FROM LEFT BANK = 82.17 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 9.73 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
667.90	43104.01	7224.45	592.68
665.90	33920.29	6100.45	556.28
659.90	15828.73	3340.45	387.19
657.90	12571.24	2664.45	310.84
656.10	10339.43	2177.55	251.63
655.90	10038.93	2129.63	248.78
654.55	8109.89	1819.75	231.25

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
642.16	664.40	644.86	665.40	645.00	665.45
655.55	665.92	688.78	667.40	700.00	667.90
785.00	669.95	1010.00	673.90	1080.00	675.90
1114.15	677.90	1115.00	677.95	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9648.00	0.001	0.071	671.77

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
671.30	1.00	580.00	610.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
3030.08	0.00	382.38	755.70

ENCROACHMENT DISTANCE FROM LEFT BANK = 197.62 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 145.70 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
677.95	32765.61	9014.67	1130.27
677.90	32446.04	8950.95	1129.36
675.90	22045.14	6834.80	1025.13
673.90	14301.55	4959.80	880.08
669.95	5656.89	2279.97	306.86
667.90	3369.75	1437.55	344.94

5.90

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X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1707.38	660.95	1855.00	661.95	1888.33	662.95
1920.00	663.90	1960.00	665.90	2070.00	667.90
2154.00	671.90	2197.05	673.95	2280.00	677.90

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT.
9608.00	0.000	0.071	663.84

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
671.75	1.00	1355.00	1405.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF. OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
24894.50	0.00	169.93	2012.94

ENCROACHMENT DISTANCE FROM LEFT BANK = 1185.07 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 607.94 FEET

1390

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
677.90	91067.70	38450.75	2294.32
673.95	60765.19	29638.20	2195.76
671.90	47109.93	25214.25	2147.26
667.90	25229.06	16926.25	2022.96
665.90	16945.75	13021.25	1907.56
663.90	9785.28	9276.25	1862.13
662.95	7005.78	7534.92	1827.89

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1929.63	659.46	1932.35	659.90	1944.69	661.90
1944.69	661.90	1944.69	661.90	1945.00	661.95
2040.00	663.90	2080.00	665.90	2108.33	667.90
2165.00	671.90	2250.00	677.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9508.00	0.005	0.071	662.28

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
671.90	1.00	1200.00	1256.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
21078.15	0.00	241.29	2002.30

ENCROACHMENT DISTANCE FROM LEFT BANK = 958.71 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 746.30 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
677.90	329884.61	33993.15	2259.12
671.90	157986.27	21078.15	2063.75
667.90	72951.78	13031.48	1976.67
665.90	40874.94	9133.15	1938.07
663.90	19568.61	5341.00	1530.10
661.95	7583.97	2720.05	1173.82

0.5-2

12/16

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
280.00	661.20	282.26	661.90	282.42	661.95
285.71	663.90	292.00	664.92	296.06	663.90
303.83	661.95	304.03	661.90	306.81	661.20
307.21	661.10	307.89	660.93	309.52	660.52
310.00	660.40	400.00	659.90	457.32	660.40
457.32	660.40	457.32	660.40	471.07	660.52
518.07	660.93	537.56	661.10	549.02	661.20
629.27	661.90	635.00	661.95	920.00	661.90
927.00	661.20	928.00	661.10	929.70	660.93
933.80	660.52	935.00	660.40	935.00	660.40
935.00	660.40	940.00	659.90	960.00	659.90
962.50	660.40	962.50	660.40	962.50	660.40
963.10	660.52	965.15	660.93	966.00	661.10
966.50	661.20	970.00	661.90	970.25	661.95
980.00	663.90	1092.20	664.92	1145.00	663.40
1200.00	665.90	1226.67	666.90	1306.67	669.90
1360.00	671.90	1460.00	673.90	1520.00	675.90
1540.00	677.90	1962.36	685.90	1965.00	685.95

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9153.00	0.000	0.072	669.50

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
672.70	1.00	232.00	263.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
12594.35	0.00	109.63	1157.71

ENCROACHMENT DISTANCE FROM LEFT BANK = 122.37 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 894.71 FEET

650

DATE

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
178.05	660.90	200.00	659.90	738.46	660.90
770.77	660.96	900.00	661.20	1040.00	661.60
1066.75	661.20	1086.00	660.96	1086.00	660.90
1086.02	659.90	1086.15	652.95	1086.16	652.46
1095.00	651.95	1100.10	652.46	1105.00	652.95
1109.37	659.90	1110.00	660.90	1110.45	660.96
1112.25	661.20	1115.25	661.60	1117.88	661.95
1121.25	662.40	1125.00	662.90	1132.50	663.50
1140.00	664.90	1144.00	663.90	1148.00	662.90
1150.00	662.40	1200.00	662.90	1800.00	663.90
1822.31	664.90	1889.26	667.90	1933.88	669.90
1935.00	669.95	2086.61	671.98	2230.00	673.90
2233.32	673.98	2315.00	675.95	2360.00	677.90
2583.14	683.90	2585.00	683.95	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9219.00	0.000	0.072	666.92

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
672.85	1.00	1086.00	1110.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
19895.41	0.00	211.06	1881.98

ENCROACHMENT DISTANCE FROM LEFT BANK = 874.94 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 771.98 FEET

0.53

1095

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
765.87	663.90	779.33	653.90	779.84	653.52
780.00	653.40	792.00	653.52	800.00	653.90
813.57	663.90	814.46	664.55	814.46	664.55
815.00	664.95	923.37	664.55	923.57	664.55
1100.00	663.90	1113.64	664.55	1113.64	664.55
1122.04	664.95	1183.95	667.90	1183.95	667.90
1183.95	667.90	1185.00	667.95	1192.16	668.90
1199.70	669.90	1215.15	671.95	1229.85	673.90
1244.92	675.90	1260.00	677.90	1280.00	679.90
1300.00	681.90	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9479.00	0.001	0.073	671.06

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
673.55	1.00	765.00	815.00

780

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7091.98	0.00	312.33	1130.29

ENCROACHMENT DISTANCE FROM LEFT BANK = 452.67 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 315.29 FEET

M
1/3

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1284.16	685.90	1285.00	685.95	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9481.00	0.000	0.073	678.44

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
673.80	1.00	865.00	915.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4383.98	0.00	430.85	1012.03

ENCROACHMENT DISTANCE FROM LEFT BANK = 434.15 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 97.03 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
685.95	25108.43	17163.12	1293.14
685.90	24963.48	17090.90	1292.25
683.95	20290.21	14680.29	1204.46
681.90	15831.73	12308.91	1124.97
679.90	11818.18	10128.29	1071.27
677.95	8691.84	8139.90	983.47
677.90	8613.73	8091.14	982.02
675.90	5793.74	6206.75	917.50
673.90	3558.66	4466.75	837.40

2.2 = 1

890

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
674.25	1.00	1170.00	1233.00

1200

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

1624

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5733.11	0.00	774.95	1525.98

ENCROACHMENT DISTANCE FROM LEFT BANK = 395.05 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 292.98 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
685.90	104085.74	22470.25	1876.18
683.90	82875.76	18919.24	1687.12
681.90	65773.04	15716.22	1528.06
679.90	48670.13	12771.19	1428.98
677.95	35343.66	10128.44	1293.39
677.90	35029.27	10064.14	1290.14
675.90	23492.84	7615.64	1170.05
673.90	14404.54	5417.14	1039.96
671.90	10169.35	3708.64	679.89
669.90	6388.13	2520.14	519.81
667.95	3484.05	1612.42	422.22
667.90	3421.64	1591.63	420.33
665.90	1066.99	778.18	403.46
664.43	1346.80	438.80	67.93
664.40	1340.27	436.91	67.69
654.95	10.36	16.18	26.28
654.40	1.50	4.29	17.17
653.90	0.00	0.00	0.00

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
662.11	670.96	665.19	670.90	665.95	670.30
666.35	669.98	666.46	669.90	669.00	667.89
721.85	669.90	723.96	669.98	732.37	670.30
748.15	670.90	749.73	670.96	855.96	675.00
858.32	675.09	932.21	677.90	933.00	677.93
963.66	681.90	1010.00	687.90	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9521.00	0.002	0.076	676.13

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
677.10	1.00	505.00	538.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4034.12	0.00	274.74	790.00

ENCROACHMENT DISTANCE FROM LEFT BANK = 230.26 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 252.00 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
687.90	79614.01	14015.10	1024.72
681.90	34223.94	8184.12	947.40
677.93	14727.44	4625.95	836.99
677.90	14614.82	4671.27	835.60

510

2.45

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9521.00	0.006	0.077	672.27

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
677.60	1.00	781.00	830.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
6657.77	0.00	430.12	1127.75

ENCROACHMENT DISTANCE FROM LEFT BANK = 342.88 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 297.75 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
685.90	128033.94	15850.60	1249.49
679.90	54684.32	8944.47	1070.77
677.90	30765.90	6939.70	951.22
675.90	26617.66	5093.57	771.63
673.90	16163.79	3636.08	702.06
672.25	9458.69	2541.42	640.55
671.95	8458.12	2353.86	625.38
669.90	3207.43	1209.09	506.42
669.60	2732.72	1064.96	468.86
668.90	1822.37	771.27	384.29
668.40	1397.21	601.63	307.64
667.90	1318.59	480.20	190.99
666.95	667.50	310.56	178.37

818

1.2=V

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
365.71	671.20	367.86	671.25	370.00	671.30
375.29	671.25	380.59	671.20	401.76	671.00
406.00	670.96	406.41	670.95	420.63	670.60
432.00	670.32	450.45	670.60	473.52	670.95
474.18	670.96	476.82	671.00	490.00	671.20
510.00	671.00	526.25	671.20	530.31	671.25
534.38	671.30	550.63	671.50	554.69	671.55
570.94	671.75	575.00	671.80	617.25	672.32
640.00	672.60	640.82	673.00	640.98	673.08
641.45	673.31	642.04	673.60	642.96	674.05
660.00	682.40	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9529.00	0.002	0.075	675.82

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
679.30	1.00	235.00	265.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4995.91	0.00	33.47	594.18

ENCROACHMENT DISTANCE FROM LEFT BANK = 201.53 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 329.18 FEET

265

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
348.53	670.85	350.00	670.60	366.00	669.86
366.24	669.05	366.48	668.25	366.98	666.60
367.10	666.20	368.00	663.18	377.46	666.20
378.71	666.60	383.87	668.25	386.36	669.05
388.92	669.86	391.23	670.60	392.02	670.85
393.89	671.45	393.89	671.45	394.36	671.60
395.77	672.05	400.00	673.40	472.69	672.05
496.92	671.60	505.00	671.45	505.62	670.85
505.88	670.60	506.64	669.86	507.47	669.05
508.30	668.25	510.00	666.60	550.00	666.20
552.22	666.60	561.39	668.25	565.83	669.05
570.33	669.86	574.44	670.60	575.83	670.85
579.17	671.45	579.17	671.45	580.00	671.60
597.12	672.05	648.50	673.40	666.00	673.86
705.00	674.65	725.00	675.55	736.21	676.35
813.00	681.83	813.00	684.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9550.00	0.001	0.080	676.78

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
680.40	1.00	505.00	580.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
6577.51	0.00	85.31	739.06

ENCROACHMENT DISTANCE FROM LEFT BANK = 419.69 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 159.06 FEET

550

Y VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
585.49	673.79	585.73	673.76	588.41	673.43
588.97	673.36	589.05	673.35	589.46	673.30
590.68	673.15	593.11	672.85	596.11	672.48
596.76	672.40	597.00	672.37	600.00	672.40
600.42	672.48	602.37	672.85	603.95	673.15
604.74	673.30	605.00	673.35	607.36	673.36
623.91	673.43	701.91	673.76	709.00	673.79
710.77	673.85	714.92	673.99	717.87	674.09
721.13	674.20	721.13	674.20	722.01	674.23
724.08	674.30	730.00	674.50	744.15	674.30
749.10	674.23	751.22	674.20	751.22	674.20
759.00	674.09	770.00	674.20	770.00	674.20
773.00	674.23	780.00	674.30	800.00	674.50
813.90	674.63	826.00	674.50	846.00	674.30
853.00	674.23	853.75	674.20	853.75	674.20
856.50	674.09	859.00	673.99	862.50	673.85
864.00	673.79	864.75	673.76	873.00	673.43
894.21	673.76	896.14	673.79	900.00	673.85
909.00	673.99	911.12	674.09	913.45	674.20
913.45	674.20	914.09	674.23	915.58	674.30
919.82	674.50	922.58	674.63	931.48	675.05
941.03	675.50	944.00	675.64	951.36	675.50
975.00	675.05	977.21	674.63	977.89	674.50
978.95	674.30	979.32	674.23	979.47	674.20
979.47	674.20	980.05	674.09	980.58	673.99
981.32	673.85	981.63	673.79	981.79	673.76
983.53	673.43	983.89	673.36	983.95	673.35
984.21	673.30	985.00	673.15	990.82	672.85
998.00	672.48	998.08	672.40	998.11	672.37
1003.31	667.05	1004.00	666.34	1025.00	667.05
1028.67	672.37	1028.69	672.40	1028.74	672.48
1029.00	672.85	1029.21	673.15	1029.31	673.30
1029.34	673.35	1029.35	673.36	1029.40	673.43
1029.63	673.76	1029.65	673.79	1029.69	673.85
1029.79	673.99	1029.86	674.09	1029.93	674.20
1029.93	674.20	1029.95	674.23	1030.00	674.30
1032.13	674.50	1033.51	674.63	1037.98	675.05
1042.77	675.50	1044.26	675.64	1055.00	676.65
1061.45	675.64	1062.34	675.50	1065.21	675.05
1067.89	674.63	1068.72	674.50	1070.00	674.30
1070.45	674.23	1070.64	674.20	1070.64	674.20
1071.34	674.09	1071.98	673.99	1072.87	673.85
1073.26	673.79	1073.45	673.76	1075.55	673.43
1076.00	673.36	1077.75	673.43	1086.00	673.76
1086.08	673.79	1086.25	673.85	1086.63	673.99
1086.91	674.09	1087.21	674.20	1087.21	674.20
1087.30	674.23	1087.49	674.30	1088.04	674.50

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1088.40	674.63	1089.56	675.05	1090.80	675.50
1091.18	675.64	1093.97	676.65	1100.17	678.90
1105.00	680.65	1105.00	681.30	1105.00	685.30

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9527.00	0.000	0.073	685.29

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	HEIGHT ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
681.33	1.00	998.00	1030.00

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

1004

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7220.50	0.00	253.24	1090.02

ENCROACHMENT DISTANCE FROM LEFT BANK = 744.76 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 60.02 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
685.30	9535.68	11430.12	1118.50
681.30	4669.48	7190.12	1024.41
680.65	4011.11	6333.90	1012.91
678.90	2460.32	4806.35	978.56
676.65	930.62	2652.77	951.98
675.64	458.75	1713.80	922.73
675.50	407.70	1586.67	908.34

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
245.00	674.55	249.80	674.67	253.40	674.76
255.00	674.80	263.00	675.00	265.00	675.05
274.47	675.00	312.37	674.80	319.95	674.76
337.00	674.67	402.65	674.55	402.65	674.55
430.00	674.50	440.00	673.50	450.00	674.50
452.65	674.55	452.65	674.55	459.00	674.67
463.76	674.76	465.88	674.80	476.47	675.00
479.12	675.05	484.41	675.15	495.00	675.35
537.86	675.15	559.29	675.05	570.00	675.00
571.41	675.05	574.23	675.15	579.86	675.35
595.64	675.91	615.36	676.61	621.00	676.81
623.72	677.20	629.23	677.99	633.00	678.53
640.83	677.99	652.29	677.20	657.95	676.81
660.85	676.61	671.00	675.91	671.49	675.35
671.66	675.15	671.75	675.05	671.79	675.00
671.97	674.80	672.00	674.76	672.08	674.67
672.18	674.55	672.18	674.55	672.23	674.50
672.23	674.50	673.10	673.50	676.00	670.16
690.00	669.50	691.02	670.16	696.19	673.50
697.74	674.50	697.74	674.50	697.81	674.55
697.81	674.55	698.00	674.67	698.14	674.76
698.20	674.80	698.51	675.00	698.59	675.05
698.74	675.15	699.05	675.35	699.92	675.91
701.00	676.61	702.16	676.81	704.42	677.20
709.00	677.99	730.01	677.20	746.36	676.81
752.69	676.61	774.36	675.91	792.59	675.35
798.92	675.15	802.08	675.05	803.67	675.00
810.00	674.80	896.00	674.76	897.13	674.80
902.77	675.00	904.18	675.05	907.00	675.15
912.55	675.35	928.45	675.91	948.20	676.61
955.85	676.81	964.85	677.20	987.14	677.99
1002.38	678.53	1010.00	678.80	1050.00	679.00
1058.60	679.70	1085.00	681.85	1089.64	682.50
1089.64	682.50	1165.00	693.05	0.00	0.00

COMPUTED Q
CFS

AVER SLOPE

MANNINGS N

ELEVATION
FT

9571.00

0.001

0.075

680.75

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
682.65	1.00	671.00	701.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
6540.96	0.00	207.05	993.97

ENCROACHMENT DISTANCE FROM LEFT BANK = 463.95 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 292.97 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
693.05	78682.99	18270.67	1182.41
682.50	15066.62	6377.43	1015.76
681.85	12773.39	5727.96	994.81
679.70	6487.06	3688.31	914.53
679.00	4794.86	3057.26	900.26
678.80	4486.25	2882.54	858.65
678.53	3938.29	2653.60	848.85
677.99	2969.69	2206.79	817.59
677.20	1844.06	1595.11	742.19
676.81	1379.80	1314.61	707.08
676.61	1171.41	1176.48	684.85
675.91	567.20	726.87	609.86
675.35	225.05	402.63	557.27
675.15	150.54	299.24	485.04
675.05	120.46	253.10	445.86
675.00	109.16	231.79	414.79
674.80	65.36	157.18	339.01
674.76	72.75	145.77	239.13
674.67	62.04	125.86	210.42

COMPUTED Q AVER SLOPE MANNINGS N ELEVATION
 CFS FT
 9550.00 0.000 0.080 687.29

FRIUGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL 685.05
 FEET ADDED TO NATURAL 1.00
 X-VALUE L BANK 390.00
 X-VALUE R BANK 425.00

410

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

UNMODIFIED AREA PERCENT DIFF X-VALUE OF X-VALUE OF
 CONVEYANCE OF MODIFICATION L ENCROACH STA R ENCROACH STA
 5575.45 0.00 228.33 953.99

ENCROACHMENT DISTANCE FROM LEFT BANK = 161.67 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 528.99 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
696.10	33718.04	18183.35	1266.86
694.30	27950.36	15978.35	1215.03
689.90	15442.41	10874.35	1130.51
686.50	7755.02	7113.22	1099.33
682.60	2279.12	3187.39	927.41
682.50	2221.74	3096.85	896.60
682.30	2126.28	2925.45	830.59
679.95	545.87	1183.65	664.91
679.50	363.31	898.57	614.91
678.80	186.54	530.75	448.14
678.30	95.19	319.88	346.65
678.10	66.32	253.09	331.93
678.00	55.32	221.42	311.95

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
677.83	71.42	184.34	134.49
677.60	78.38	180.80	111.43
677.30	118.45	146.48	35.44
672.60	9.76	26.53	20.91
672.30	6.90	20.68	19.31
670.10	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

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

GRANTS CREEK STA 57400 CROSS SECTION AF

DESIRED Q	AVER SLOPE	MANNINGS N
9548.00	0.0012	0.078

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	690.50	0.00	688.40	20.00	688.20
52.63	686.10	65.00	685.25	66.34	685.00
84.62	681.60	96.13	681.32	88.92	680.80
120.00	680.60	120.00	680.60	120.37	680.00
180.72	679.42	185.00	672.45	202.00	679.42
205.05	680.00	208.21	680.60	208.21	680.60
209.26	680.00	212.00	681.32	215.15	680.80
216.36	680.60	216.36	680.60	220.00	680.00
265.00	680.60	265.00	680.60	280.00	680.80
299.51	681.32	310.00	681.60	380.00	685.00
400.45	685.25	470.00	686.10	503.41	688.20
506.59	688.40	540.00	690.50	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9543.00	0.001	0.078	690.63

DISCHARGE FELL ABOVE THE CROSS SECTION

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
689.80	1.00	180.00	202.00

FLOOD LEVEL PLUS Y FEET FELL ABOVE THE CROSS SECTION

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
3406.15	0.00	59.15	437.53

ENCROACHMENT DISTANCE FROM LEFT BANK = 120.85 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 235.53 FEET

All insert
Screen

15

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
690.50	9307.03	3780.25	549.09
688.40	5490.19	2681.33	513.52
688.20	5317.84	2582.33	490.33
686.10	2734.47	1635.89	424.75
685.25	2196.68	1315.68	342.21
685.00	2064.29	1234.54	320.38
681.50	267.44	318.19	231.71
681.32	193.83	256.76	219.67
680.00	89.81	153.14	191.34
680.60	101.45	117.94	82.95
680.00	120.56	87.48	30.34
679.42	100.03	74.15	26.55
672.45	0.00	0.00	0.00

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	692.70	135.00	691.55	220.00	688.30
222.00	688.20	250.09	686.85	257.36	686.50
261.51	686.30	264.62	686.15	275.00	685.65
278.95	685.55	312.56	684.70	314.53	684.65
336.28	684.10	348.14	683.80	360.00	683.50
377.55	683.80	395.09	684.10	427.26	684.65
430.19	684.70	479.91	685.55	485.75	685.65
515.00	686.15	520.22	685.65	521.27	685.55
530.15	684.70	530.67	684.65	536.42	684.10
539.55	683.80	542.69	683.50	543.73	683.40
550.00	682.80	550.00	682.40	564.04	682.80
570.11	683.40	571.12	683.50	574.16	683.80
577.19	684.10	582.75	684.65	583.26	684.70
591.65	685.55	592.87	685.65	597.92	686.15
599.44	686.30	601.46	686.50	605.00	686.85
607.44	686.50	608.84	686.30	609.88	686.15
613.37	685.65	614.07	685.55	620.00	684.70
635.00	685.55	635.80	684.70	635.85	684.65
636.37	684.10	636.65	683.80	636.93	683.50
637.03	683.40	637.59	682.80	637.97	682.40
642.00	678.12	647.18	677.74	654.00	677.24
664.00	677.74	664.69	678.12	672.51	682.40
673.24	682.80	674.34	683.40	674.52	683.50
675.07	683.80	675.62	684.10	676.62	684.65
676.71	684.70	678.26	685.55	678.45	685.65
679.36	686.30	679.63	686.30	680.00	686.50
700.00	686.30	701.36	686.15	705.91	685.65
706.02	685.55	714.55	684.70	715.00	684.65
800.00	684.10	812.86	683.80	825.71	683.50
830.00	683.40	827.50	683.50	860.00	683.80
865.48	684.10	875.45	684.65	876.36	684.70
891.82	685.55	893.64	685.65	902.73	686.15
905.45	686.30	909.09	686.50	915.45	686.85
940.00	688.20	940.00	688.30	940.00	691.55
940.00	692.70	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANINGS N	ELEVATION FT
9921.00	0.001	0.072	690.57

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
692.40	1.00	635.00	680.00

FLOOD LEVEL PLUS Y FEET FELL ABOVE THE CROSS SECTION

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5829.83	0.00	240.06	886.70

ENCROACHMENT DISTANCE FROM LEFT BANK = 394.94 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 206.70 FEET

654
All insert

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
692.70	14977.14	6106.55	950.96
691.55	12309.54	5103.18	814.81
688.30	4388.19	2625.05	726.50
688.20	4198.11	2553.15	724.32
686.85	2067.16	1619.44	671.69
686.50	1634.53	1389.99	652.02
686.30	1442.21	1264.00	620.36
686.15	1286.69	1172.63	610.25
685.65	875.33	887.54	542.04
685.55	805.65	834.69	526.52
684.70	364.79	454.66	378.41
684.65	344.96	436.17	370.94
684.10	240.81	279.33	208.73
683.80	207.79	226.25	153.76
683.50	241.13	192.14	81.75
683.40	257.23	185.07	67.55

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
695.00	1.00	143.00	175.00

157

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2439.97	0.00	36.29	253.13

ENCROACHMENT DISTANCE FROM LEFT BANK = 106.71 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 78.13 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
699.28	8957.22	3706.12	322.99
692.00	1665.68	1614.60	273.67
690.73	1293.56	1301.56	233.31
686.29	221.88	409.04	181.84
686.22	213.40	396.85	178.75
686.13	211.54	381.95	164.58
685.39	160.17	282.13	117.14
685.32	158.06	274.53	111.61
684.76	140.59	224.04	80.05
684.63	135.46	214.61	76.02
683.95	104.94	170.89	63.08
683.13	75.47	128.15	50.36
682.88	87.78	118.73	33.17
678.08	0.28	3.00	19.03
678.07	0.25	2.81	18.72
677.77	0.00	0.00	0.00

①

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
687.50	685.40	687.68	685.55	687.74	685.60
687.86	685.70	688.21	686.00	688.27	686.05
688.33	686.10	688.51	686.25	688.57	686.30
688.99	686.65	689.17	686.80	689.40	687.00
689.64	687.20	690.00	687.50	692.73	687.80
694.55	688.00	700.00	688.60	709.60	688.00
712.80	687.80	717.60	687.30	722.40	687.20
725.60	687.00	728.80	686.80	731.20	686.65
736.89	686.30	737.60	686.25	740.00	686.10
748.00	686.05	756.00	686.00	804.00	685.70
820.00	685.60	822.73	685.70	830.91	686.00
832.27	686.05	833.64	686.10	837.73	686.25
839.09	686.30	848.64	686.65	852.73	686.80
858.18	687.00	863.64	687.20	871.42	687.50
880.00	687.80	885.45	688.00	901.82	688.60
910.00	688.90	985.00	690.95	1003.55	692.10
1005.16	692.20	1060.00	695.60	1060.00	696.90

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
7426.00	0.000	0.075	691.70

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
695.58	1.00	650.00	690.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
8549.32	0.00	139.32	970.35

ENCROACHMENT DISTANCE FROM LEFT BANK = 510.68 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 280.35 FEET

670

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
696.90	23087.10	9939.25	1069.00
695.60	16297.29	8570.24	1053.81
692.20	8324.43	5167.97	962.54
692.10	8316.58	5074.54	920.92
690.95	5778.57	4037.22	897.69
688.90	2408.62	2296.83	814.36
688.60	2018.15	2056.00	804.96
688.00	1349.37	1587.27	771.05
687.90	1161.61	1436.31	751.93
687.50	919.26	1219.13	708.95
687.20	703.89	1014.43	668.25
687.00	566.21	883.28	635.29
686.80	443.79	755.11	638.13
686.65	368.51	662.50	608.06
686.30	237.86	470.70	498.91
686.25	224.79	446.59	476.17
686.10	197.40	382.25	392.19
686.05	193.51	363.77	357.00
686.00	189.64	346.93	326.86
685.70	173.58	269.58	198.67
685.60	174.78	251.83	165.84
685.55	170.63	243.95	158.79
685.40	152.94	221.60	147.29
684.85	134.92	161.41	80.42
684.40	176.61	137.03	35.66
679.70	5.10	13.21	20.99
679.10	0.50	2.80	14.03
678.70	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

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

GRANTS CREEK STA 65800 CROSS SECTION AK *AK*

DESIRED Q		AVER SLOPE		MANNINGS N	
7517.00		0.0014		0.075	
X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	716.60	38.09	701.38	66.00	693.06

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
67.97	682.85	91.41	690.35	91.69	690.32
96.94	689.76	97.88	689.66	100.69	689.36
107.61	688.60	108.28	688.55	108.75	688.50
112.03	688.15	113.72	687.97	114.00	687.94
116.95	687.93	237.93	687.52	250.58	687.45
317.59	687.25	353.00	687.13	405.00	687.25
449.00	687.13	460.00	687.10	461.29	687.13
466.43	687.25	475.00	687.45	478.00	687.52
495.57	687.93	496.00	687.94	497.29	687.97
505.00	688.15	520.00	688.50	585.00	688.15
547.57	687.97	598.00	687.94	588.14	687.93
594.00	687.52	595.00	687.45	596.17	687.52
603.00	687.93	604.81	687.94	610.23	687.97
642.74	688.15	705.97	688.50	715.00	688.55
715.48	688.60	722.78	689.36	725.66	689.66
726.62	689.76	732.00	690.32	733.17	689.76
733.38	689.66	734.01	689.36	735.60	688.60
735.71	688.55	735.81	688.50	736.54	688.15
736.92	687.97	736.98	687.94	737.01	687.93
737.86	687.52	738.01	687.45	738.43	687.25
738.68	687.13	738.74	687.10	738.93	687.01
740.00	686.50	746.00	681.06	751.25	680.50
752.00	680.42	760.00	680.50	760.97	681.06
770.37	686.50	771.25	687.01	771.40	687.10
771.46	687.13	771.66	687.25	772.01	687.45
772.13	687.52	772.84	687.93	772.86	687.94
772.91	687.97	773.22	688.15	773.82	688.50
773.91	688.55	774.00	688.60	775.31	689.36
775.83	689.66	776.00	689.76	776.34	689.66
777.38	689.36	780.00	688.60	786.00	689.36
816.00	689.66	821.09	689.36	834.00	688.60
834.88	686.55	835.70	688.50	841.64	688.15
844.70	687.97	845.21	687.94	845.38	687.93
852.34	687.52	853.53	687.45	856.92	687.25
858.96	687.13	859.47	687.10	861.00	687.01
863.64	687.10	864.25	687.13	867.50	687.25
872.92	687.45	874.81	687.52	895.92	687.93
886.19	687.94	887.00	687.97	898.00	687.94
888.33	687.93	902.00	687.52	906.78	687.93
906.90	687.94	907.25	687.97	909.35	688.15
913.43	688.50	914.01	688.55	914.59	688.60
923.46	689.36	926.95	689.66	928.12	689.76
934.65	690.32	938.00	690.35	1005.00	692.85
1005.00	693.06	1105.00	701.38	1005.00	716.60

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
7517.00	0.001	0.075	692.19

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
695.80	1.00	740.00	776.00

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

752

1.031

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7194.64	0.00	160.94	981.74

ENCROACHMENT DISTANCE FROM LEFT BANK = 579.06 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 185.74 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
716.60	180913.95	27545.02	1039.29
701.38	50567.20	12538.10	983.13
693.06	9790.06	4609.14	945.60
692.85	9116.78	4412.16	943.41
690.35	3033.12	2186.38	849.80
690.32	2976.33	2161.08	849.16
689.76	2013.15	1694.16	830.62
689.66	1858.64	1611.88	826.75
689.36	1478.15	1372.60	780.04
688.60	630.23	802.21	731.65
688.55	584.85	765.94	729.05
688.50	545.43	730.01	717.89
688.15	351.93	508.11	559.80

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
687.97	265.04	412.72	509.35
687.94	252.58	397.73	499.12
687.93	249.49	392.82	492.86
687.52	142.79	231.43	303.26
687.45	131.50	211.52	274.05
687.25	108.70	165.27	196.77
687.13	219.58	150.69	54.41
687.10	262.76	149.39	40.67
687.01	273.64	146.29	36.31
686.50	235.25	130.30	34.11
681.06	3.08	6.99	15.15
680.50	0.03	0.35	8.75
680.42	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

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

GRANTS CREEK STA 57680 CROSS SECTION AL *AD*

DESIRED Q AVER SLOPE MANNINGS N
 7627.00 0.0018 0.075

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
0.00	707.30	50.00	705.80	110.00	701.80
130.00	701.80	140.00	700.40	150.00	698.50
160.45	697.40	166.19	696.80	168.10	696.50
170.00	696.40	180.00	696.60	181.90	696.40
190.95	695.45	200.00	694.50	205.56	693.00
207.78	692.40	207.78	692.40	208.15	692.30
210.00	691.80	211.10	691.00	211.10	691.00
211.58	690.65	219.52	684.85	220.00	684.50
230.00	683.90	233.16	684.50	235.00	684.85
238.89	690.65	239.13	691.00	239.13	691.00
239.66	691.80	240.00	692.30	240.44	692.40
240.44	692.40	243.11	693.00	249.78	694.50
254.00	695.45	258.22	696.40	259.11	696.60
260.00	696.80	260.69	696.60	261.38	696.40
264.66	695.45	267.93	694.50	273.10	693.00
275.17	692.40	275.17	692.40	275.52	692.30

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
277.24	691.30	280.00	691.00	297.14	691.80
307.86	692.30	310.00	692.40	330.00	693.00
340.00	692.40	340.29	692.30	341.71	691.80
344.00	691.00	344.00	691.00	345.00	690.65
390.00	691.00	394.49	691.80	397.30	692.30
397.87	692.40	397.87	692.40	401.24	693.00
409.66	694.50	415.00	695.45	432.05	696.40
435.64	696.60	439.23	696.80	450.00	697.40
450.00	698.50	450.00	700.40	450.00	701.80
450.00	701.80	450.00	705.80	450.00	707.30

COMPUTED Q AVER SLOPE MANNINGS N ELEVATION
 CFS FT

7627.00 0.001 0.075 700.88

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
700.55	1.00	210.00	240.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2280.08	0.00	156.79	402.95

ENCROACHMENT DISTANCE FROM LEFT BANK = 53.21 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 162.95 FEET

230

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
342.12	692.30	342.37	692.05	342.92	691.50
349.00	685.39	355.22	685.00	360.00	684.70
370.00	685.00	370.01	684.70	372.00	601.52
379.13	684.70	379.16	685.00	379.19	685.39
379.72	691.50	379.76	692.05	379.79	692.30
379.79	692.40	379.80	692.42	379.82	692.75
379.84	692.95	380.00	694.80	383.45	695.80
384.83	696.20	385.17	696.30	385.86	696.50
388.62	697.30	390.00	697.70	394.44	697.30
403.33	696.50	405.56	696.30	406.67	696.20
411.11	695.80	422.22	694.80	442.78	692.95
445.00	692.75	475.00	692.95	495.00	692.75
528.00	692.42	530.00	692.40	540.00	692.30
565.00	692.05	670.00	692.30	673.13	692.05
680.00	691.50	686.60	692.05	689.60	692.30
690.80	692.40	691.04	692.42	695.00	692.75
697.40	692.95	719.60	694.80	731.60	695.80
736.40	696.20	737.60	696.30	740.00	696.50
751.43	697.30	757.14	697.70	764.29	698.20
770.00	698.60	800.00	700.70	800.00	701.10
800.00	703.00	800.00	705.60	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
7606.00	0.004	0.075	697.52

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
701.40	1.00	342.00	372.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4726.72	0.00	195.80	696.31

ENCROACHMENT DISTANCE FROM LEFT BANK = 146.20 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 324.31 FEET

360

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
366.80	694.85	367.39	694.40	367.65	694.20
367.78	694.10	367.91	694.00	368.04	693.90
368.30	693.70	368.89	693.25	370.00	692.40
375.00	690.85	375.15	686.65	385.00	686.25
393.00	686.23	393.02	686.25	393.37	686.65
397.06	690.85	398.42	692.40	399.17	693.25
399.56	693.70	399.74	693.90	399.82	694.00
399.91	694.10	400.00	694.20	400.69	694.40
402.24	694.85	403.93	695.34	404.34	695.46
406.55	696.10	409.07	696.83	410.00	697.10
423.00	696.83	434.80	696.10	445.14	695.46
447.08	695.34	455.00	694.85	478.82	694.40
489.41	694.20	494.71	694.10	500.00	694.00
540.00	694.10	540.59	694.00	541.18	693.90
542.35	693.70	545.00	693.25	555.38	693.70
560.00	693.90	630.00	693.70	634.17	693.30
636.25	694.00	638.33	694.10	640.42	694.20
644.58	694.40	653.96	694.85	664.17	695.34
666.67	695.46	680.00	696.10	724.92	696.83
741.54	697.10	744.00	697.14	744.82	697.45
750.00	699.40	750.00	701.70	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
7639.00	0.000	0.077	701.82

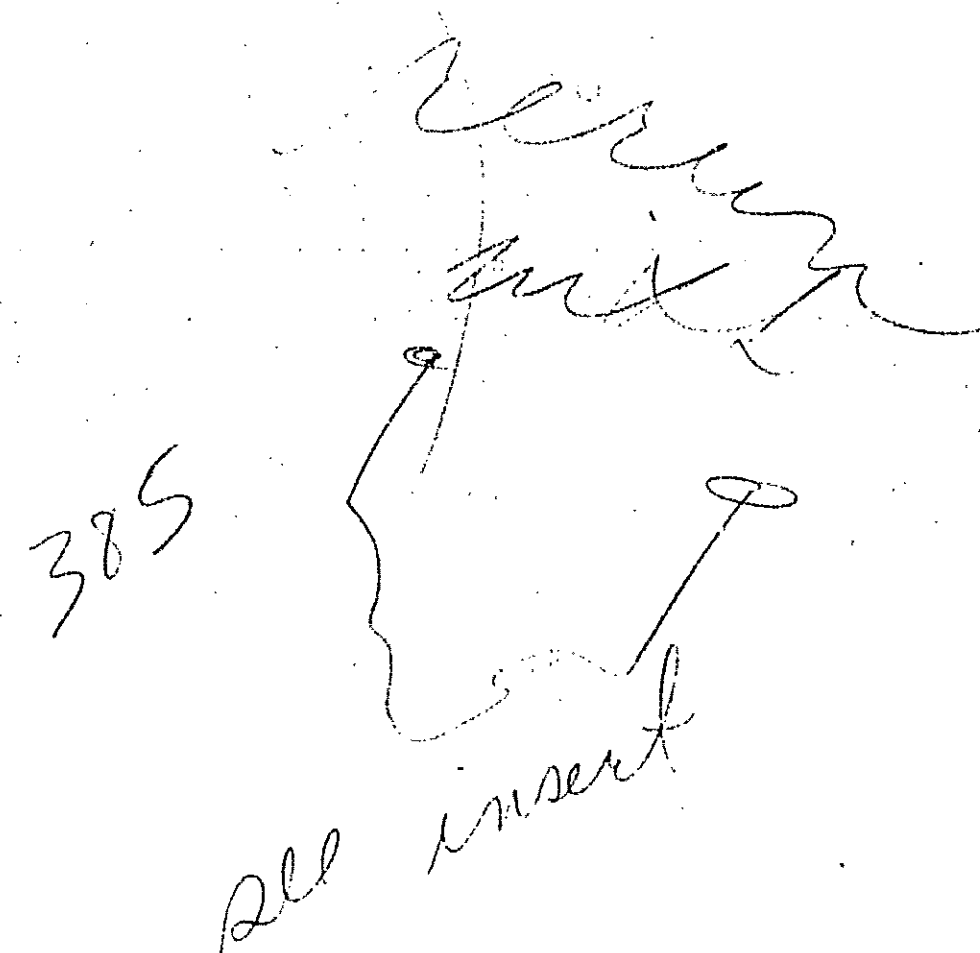
DISCHARGE FELL ABOVE THE CROSS SECTION

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
702.50	1.00	375.00	400.00

FLOOD LEVEL PLUS Y FEET FELL ABOVE THE CROSS SECTION

Disregard



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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4896.83	0.00	93.30	680.48

ENCROACHMENT DISTANCE FROM LEFT BANK = 281.70 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 280.48 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
701.70	7441.61	4282.91	762.40
699.40	3734.43	2673.04	659.95
697.45	1561.70	1493.58	569.52
697.14	1289.71	1321.66	558.98
697.10	1259.87	1299.76	555.27
696.83	1090.52	1157.69	516.26
696.10	685.74	817.74	434.14
695.46	393.79	560.59	388.19
695.34	327.59	518.77	327.38
694.85	255.48	375.97	273.66
694.40	178.56	271.63	207.78
694.20	146.17	233.39	191.97
694.10	131.44	215.43	184.29
694.00	142.50	200.26	136.02
693.90	129.76	187.65	133.04
693.70	206.20	170.75	52.46
693.25	215.03	153.97	38.04
692.40	167.68	129.03	35.51
690.85	107.06	89.91	28.21
696.65	1.28	5.33	18.42
686.25	0.00	0.08	8.03
686.23	0.00	0.00	0.00

GRAVITS CREEK FLOODWAY

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
713.05	1.00	643.00	600.00

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

665

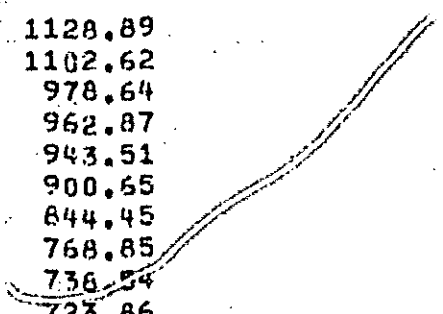
UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7503.30	0.00	179.01	800.93

ENCROACHMENT DISTANCE FROM LEFT BANK = 463.99 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 200.93 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
722.30	90136.57	17443.70	1128.89
721.30	76588.39	15670.79	1102.62
716.26	42295.70	10461.37	978.64
716.21	42418.45	10413.17	962.87
715.10	36012.20	9362.49	943.51
713.70	29060.85	8090.35	900.65
711.10	17589.68	5826.53	844.45
709.10	10353.86	4223.76	768.85
708.90	10594.80	4074.07	736.54
708.80	10420.54	4001.47	723.86
706.70	5301.01	2563.83	655.50
704.90	2150.96	1441.62	601.34
704.80	2024.62	1382.40	592.34
703.88	1076.94	884.13	499.98
705.50	739.17	698.31	487.48
703.08	461.66	505.43	440.17
703.06	451.75	496.77	435.49
702.70	298.37	356.34	353.57
702.10	564.38	237.96	49.53



Y VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
746.29	705.42	792.43	705.99	794.86	706.02
892.00	707.22	895.64	708.02	902.00	709.42
904.75	708.02	906.31	707.22	908.67	706.02
908.73	705.99	909.84	705.42	910.43	705.12
911.22	704.72	911.22	704.72	911.41	704.62
911.80	704.42	912.00	704.32	912.39	704.42
913.17	704.62	913.56	704.72	913.56	704.72
915.12	705.12	916.29	705.42	918.51	705.99
918.62	706.02	923.30	707.22	926.42	708.02
931.87	709.42	957.00	715.87	984.00	717.22
1017.00	718.87	1017.00	723.52	1017.00	728.40
1017.00	734.60	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
7949.00	0.001	0.072	709.72

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
713.80	1.00	496.00	530.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
6256.45	0.00	254.29	881.53

ENCROACHMENT DISTANCE FROM LEFT BANK = 241.71 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 351.53 FEET

522

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
656.44	709.66	666.67	709.20	666.67	709.20
680.00	708.60	681.87	706.81	683.00	705.73
683.82	706.81	685.19	708.60	685.65	709.20
685.65	709.20	686.00	709.66	730.00	709.20
733.73	709.66	745.00	711.05	746.97	709.66
747.62	709.20	747.62	709.20	748.47	708.60
751.00	706.81	752.42	705.73	756.21	702.85
757.07	702.20	759.82	700.11	761.00	699.21
771.00	699.01	772.32	699.21	781.00	700.11
790.00	702.20	775.60	702.85	797.27	705.73
798.12	706.81	799.53	708.60	800.00	709.20
833.17	709.66	933.41	711.05	981.00	711.71
990.61	712.20	996.49	712.50	1059.24	715.70
1100.41	717.80	1112.18	718.40	1123.94	719.00
1131.78	719.40	1181.00	721.91	1181.00	724.13
1181.00	729.50	0.00	0.00	0.00	0.00

771

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
8134.00	0.001	0.075	716.64

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
716.67	1.00	751.00	800.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
3961.29	0.00	463.76	983.92

ENCROACHMENT DISTANCE FROM LEFT BANK = 287.24 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 183.92 FEET

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
150.00	710.10	200.00	710.30	225.00	710.40
237.50	710.45	250.00	710.50	290.00	710.90
375.00	711.75	390.00	711.90	390.14	711.75
390.94	710.90	391.31	710.50	391.36	710.45
391.41	710.40	391.50	710.30	391.69	710.10
392.07	709.70	392.35	709.40	392.54	709.20
393.10	708.60	394.00	707.64	394.30	707.42
396.00	706.16	400.00	702.70	410.00	702.30
420.00	702.20	420.04	702.30	420.19	702.70
421.52	706.16	422.00	707.42	422.66	707.64
425.54	708.60	427.34	709.20	427.94	709.40
428.85	709.70	430.05	710.10	430.65	710.30
430.95	710.40	431.10	710.45	431.25	710.50
432.45	710.90	435.00	711.75	440.00	710.90
474.00	711.75	480.00	711.90	500.00	712.40
626.19	711.90	664.05	711.75	878.57	710.90
979.52	710.50	992.14	710.45	1004.76	710.40
1030.00	710.30	1040.00	710.10	1060.00	709.70
1061.69	710.10	1062.54	710.30	1062.96	710.40
1063.17	710.45	1063.38	710.50	1065.07	710.90
1068.66	711.75	1069.30	711.90	1071.41	712.40
1075.00	713.25	1118.51	715.90	1130.00	717.60

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
3134.00	0.016	0.077	712.68

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

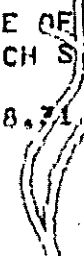
NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
717.21	1.00	396.00	422.00

FLOOD LEVEL PLUS Y FEET FELL ABOVE THE CROSS SECTION

420
Perkins
all insert

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7040.56	0.00	60.00	1008.71
ENCROACHMENT DISTANCE FROM LEFT BANK =		336.00 FEET	
ENCROACHMENT DISTANCE FROM RIGHT BANK =		506.31 FEET	



CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
717.60	63510.51	7480.30	1141.19
715.90	39477.69	5577.57	1117.93
713.25	12077.65	2697.19	1074.33
712.40	6150.20	1794.48	1067.43
711.90	3989.99	1302.66	917.18
711.75	3495.13	1170.89	856.89
710.90	1616.71	597.90	507.53
710.50	1157.09	427.11	361.51
710.45	1135.67	410.04	335.76
710.40	1135.35	394.40	304.77
710.30	1140.72	367.22	253.15
710.10	1121.13	324.29	190.40
709.70	918.50	259.53	147.12
709.40	752.43	219.79	130.96
709.20	686.79	196.61	113.66
708.60	948.87	154.68	38.43
707.64	724.18	125.35	34.07
707.42	679.73	119.15	33.01
706.16	421.98	85.62	29.54
702.70	7.41	6.55	20.54
702.30	0.16	0.50	10.11
702.20	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

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

UNMODIFIED AREA CONVEYANCE 1555.92
 PERCENT DIFF OF MODIFICATION 0.00
 X-VALUE OF L ENCROACH STA 172.12
 X-VALUE OF R ENCROACH STA 391.21

360

ENCROACHMENT DISTANCE FROM LEFT BANK = 161.88 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 21.21 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
731.20	31815.38	6749.02	537.71
727.64	19765.78	4938.68	502.99
726.50	17185.55	4440.16	475.50
724.24	11735.42	3393.44	430.28
723.60	10366.49	3126.24	422.19
722.44	8440.57	2666.86	386.23
722.05	7836.80	2521.36	375.21
720.04	4659.57	1803.06	353.92
719.14	3672.88	1505.03	321.93
718.50	2915.00	1304.33	318.36
717.34	1966.99	968.68	272.99
717.10	1805.52	905.90	262.54
715.50	824.05	528.04	220.87
714.90	578.16	406.19	195.06
712.60	182.08	124.96	57.94
712.40	236.22	116.61	32.98
711.70	189.55	97.29	29.17
707.05	5.38	8.25	12.76
706.24	0.07	0.47	6.75
706.10	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
330.00	737.10	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2572.00	0.004	0.072	724.82

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
725.60	1.00	230.00	255.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
919.71	0.00	94.83	273.78

ENCROACHMENT DISTANCE FROM LEFT BANK = 135.17 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 18.78 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
737.10	29709.38	4251.65	340.21
736.40	27245.71	4021.47	337.06
732.35	19400.56	2752.34	307.36
724.05	1254.76	551.45	237.47
722.78	401.53	269.42	218.66
722.70	362.38	252.46	216.99
722.25	200.57	165.22	182.57
722.10	197.17	139.45	122.59
722.00	178.78	126.14	114.94

250

28" V

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
733.70	1.00	252.00	307.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1677.48	0.00	112.45	328.46

ENCROACHMENT DISTANCE FROM LEFT BANK = 139.55 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 21.46 FEET

283

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
745.78	38167.57	5799.67	408.44
744.60	33658.16	5334.14	400.12
741.66	24302.40	4234.04	366.08
741.42	23598.77	4148.56	363.55
735.24	8694.14	2127.74	306.28
735.02	8290.84	2062.19	304.15
732.95	4883.21	1465.37	286.40
730.77	2102.30	868.23	273.97
730.69	2026.34	846.85	272.02
729.87	1499.28	649.72	220.37
729.34	1191.62	541.97	197.64
728.96	942.94	469.30	195.91
728.32	627.34	353.21	177.39
728.13	553.38	321.25	168.94
727.97	493.96	295.49	162.54
727.44	710.56	239.89	55.95
727.89	652.20	222.25	52.57
722.86	43.64	38.67	38.35
721.57	2.64	4.88	14.58

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
470.00	743.00	471.31	743.00	515.27	745.65
550.00	747.90	580.00	800.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2505.00	0.004	0.095	740.31

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
739.08	1.00	195.00	220.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
743.17	0.00	155.09	322.14

ENCROACHMENT DISTANCE FROM LEFT BANK = 39.91 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 94.14 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
800.00	422506.73	31393.35	632.64
747.90	17031.57	4079.43	475.81
745.65	11253.98	3070.55	434.83
743.00	6419.00	2053.38	369.65
743.00	6247.81	2024.38	367.96
741.38	3868.83	1462.47	338.19
740.50	2720.60	1173.43	330.70
739.72	1838.00	921.87	325.82

3.4-14

213

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
460.00	745.80	467.57	748.02	471.25	749.10
472.00	749.32	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2505.00	0.003	0.077	737.94

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
740.60	1.00	173.00	201.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
2030.69	0.00	81.05	386.14

ENCROACHMENT DISTANCE FROM LEFT BANK = 91.95 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 105.14 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
749.32	34206.95	5760.97	480.59
749.10	33232.51	5657.21	479.59
748.02	29125.20	5156.73	463.70
745.80	21148.50	4170.30	440.76
744.74	17747.62	3716.80	429.95
737.65	1247.96	906.35	375.76
737.53	1734.20	862.59	364.60
737.44	1635.61	830.36	362.53

184

1.25V

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
747.82	1.00	1270.00	1294.00

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

1282

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
1319.39	0.00	1206.73	1455.97

ENCROACHMENT DISTANCE FROM LEFT BANK = 63.27 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 161.97 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
767.80	67348.80	12555.80	715.36
761.60	36201.90	8379.56	659.17
755.30	15884.04	4685.80	530.35
753.50	11716.25	3782.00	489.96
747.69	2210.89	1269.46	390.17
745.40	523.06	486.40	308.11
745.30	477.27	456.61	301.84
744.40	233.48	244.17	184.45
743.94	138.13	168.22	159.69
743.70	102.78	133.81	140.42
743.50	236.95	118.14	29.38
736.95	0.78	2.72	12.40
736.67	0.01	0.15	6.06
736.62	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
1900.00	769.30	1986.36	773.10	2000.00	773.70
2000.00	775.81	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2453.00	0.003	0.095	762.57

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
761.30	1.00	1452.00	1562.00

LEFT ENCROACHMENT STATION IN CHANNEL

STATION IS SET AT BANK

MODIFIED CROSS SECT. CONVEYANCE EXCEEDS UNMODIFIED CROSS SECTION
CONVEYANCE BY (40.97) SQ. FT.

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
812.85	5.04	1452.00	1572.76

ENCROACHMENT DISTANCE FROM LEFT BANK = 0.00 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 10.76 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
775.81	50918.87	11385.70	1045.78
773.70	36622.32	9225.44	1013.23

2.91

1469

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
773.10	33238.40	8626.94	990.93
769.30	16377.23	5214.76	813.92
768.90	14993.05	4895.07	793.27
766.00	7311.74	2869.10	612.62
765.70	6723.58	2689.81	591.24
763.70	3639.00	1661.67	448.40
762.30	2168.98	1109.15	352.33
761.00	1538.45	744.18	217.49
760.80	1498.69	703.60	196.61
760.32	1537.63	624.68	140.52
759.62	1391.30	538.84	112.82
757.17	509.37	203.49	102.25
754.50	176.37	101.70	38.68
752.87	58.78	47.95	30.69
751.84	14.23	17.39	26.80
750.89	0.64	2.07	10.53
750.49	0.00	0.00	0.00

FRINGE AND ENCRUACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
642.10	1.00	1730.00	0.00

CALCULATIONS TERMINATED ON THIS CROSS SECTION ERROR CODE = 7

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
86.13	681.32	88.92	680.80	90.00	680.60
140.00	680.60	180.37	680.00	180.72	679.42
185.00	672.45	202.00	679.42	205.05	680.00
208.21	680.60	208.21	680.60	209.26	680.80
212.00	681.32	215.15	680.80	216.36	680.60
216.36	680.60	220.00	680.00	265.00	680.60
265.00	680.60	280.00	680.80	299.50	681.32
310.00	681.60	380.00	685.60	400.45	685.25
470.00	685.10	486.52	686.20	540.00	695.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
9546.00	0.001	0.078	690.13

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
689.68	1.00	180.00	202.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF. OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
3324.85	0.00	63.46	426.21

ENCROACHMENT DISTANCE FROM LEFT BANK = 116.54 FEET
ENCROACHMENT DISTANCE FROM RIGHT BANK = 224.21 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
695.00	20039.47	5986.75	548.54

185

2.95

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
690.20	1.00	220.00	265.00

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

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
4679.76	0.00	67.77	529.50

ENCROACHMENT DISTANCE FROM LEFT BANK = 132.23 FEET
 ENCROACHMENT DISTANCE FROM RIGHT BANK = 264.50 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
691.40	23384.90	5420.00	634.86
684.20	3148.98	1451.24	476.62
684.10	2858.46	1397.76	466.59
682.75	1596.79	852.78	349.71
682.65	1511.13	818.58	342.59
682.35	1386.81	725.24	287.92
682.05	1282.31	646.81	243.24
681.15	804.43	451.81	199.20
680.50	514.89	331.08	179.19
680.05	443.08	263.92	127.36
679.90	466.39	247.44	100.37
679.50	480.24	215.35	67.88
679.15	519.10	176.38	47.96
673.80	7.69	12.06	24.88
673.16	0.09	0.62	11.20
673.05	0.00	0.00	0.00

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
692.40	1.00	635.00	680.00

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

654

18-1

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
5605.43	0.00	249.63	867.97

ENCROACHMENT DISTANCE FROM LEFT BANK = 385.37 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 187.97 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED F
693.50	17064.21	6592.55	946.94
691.55	11714.10	4906.86	795.72
688.30	4281.79	2524.56	683.66
686.05	2031.14	1573.23	641.49
686.50	1608.45	1353.78	625.28
686.30	1421.73	1232.95	595.61
686.15	1269.39	1145.19	586.98
685.65	867.22	870.54	523.72
685.55	798.96	819.48	509.19
684.70	365.18	450.63	369.50
684.65	345.49	432.58	362.52
684.10	242.48	278.88	205.76
683.80	207.79	226.25	153.76
683.50	241.13	192.14	81.75
683.40	257.23	185.07	67.55
682.80	215.33	151.05	53.08
682.40	222.39	134.20	37.63
678.12	5.33	11.71	22.84
677.74	1.18	4.20	16.85

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
744.60	607.14	748.91	686.23	748.92	686.25
748.94	606.65	749.20	690.85	749.30	692.40
749.35	693.25	749.38	693.70	749.39	693.90
749.40	694.00	749.40	694.10	749.41	694.20
749.42	694.40	749.45	694.85	749.48	695.34
749.49	695.46	749.53	696.10	749.57	696.83
749.59	697.10	749.61	697.45	750.00	703.70

COMPUTED Q CFS	AVER SLOPE	MANINGS N	ELEVATION FT
7539.00	0.000	0.077	685.14

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
702.50	1.00	375.00	400.00

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

385

1.00

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7856.36	0.00	105.53	741.10

ENCROACHMENT DISTANCE FROM LEFT BANK = 269.47 FEET
ENCROACHMENT DISTANCE FROM RIGHT BANK = 341.10 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
703.70	21916.32	8735.00	896.07
697.45	8919.92	526.84	704.70
697.10	8389.61	4431.14	693.45

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
480.00	698.00	498.00	698.78	499.43	698.75
499.43	698.75	500.86	690.72	523.30	698.25
528.07	699.15	535.23	698.00	540.00	697.90
546.47	698.00	556.18	698.15	562.65	698.25
593.06	698.72	595.00	698.75	625.00	698.75
625.38	698.78	625.64	698.80	636.45	699.65
660.00	701.50	668.54	699.65	672.46	698.60
672.55	698.78	672.69	698.75	672.69	698.75
672.83	698.72	675.00	698.25	675.11	698.15
675.23	698.00	675.39	697.90	675.67	697.65
676.01	697.35	677.53	696.00	677.58	695.95
677.75	695.80	684.89	689.45	685.00	689.35
695.00	699.45	703.75	689.35	709.00	689.29
709.04	689.35	709.11	689.45	713.41	695.80
713.51	695.95	713.54	696.00	714.46	697.35
714.66	697.65	714.83	697.90	714.90	698.00
715.00	698.15	715.43	698.25	717.43	698.72
717.55	698.75	717.55	698.75	717.68	698.78
717.77	698.80	721.38	699.65	729.26	701.50
733.09	702.40	735.00	702.85	737.94	702.40
743.83	701.50	755.92	699.65	761.48	698.80
761.61	698.78	761.80	698.75	761.80	698.75
762.03	698.72	832.50	698.25	847.50	698.15
870.00	698.00	900.00	697.90	975.00	697.65
1025.00	697.35	1027.76	697.65	1030.06	697.90
1030.98	698.00	1032.36	698.15	1033.28	698.25
1037.63	698.72	1037.87	698.75	1037.87	698.75
1038.15	698.78	1038.33	698.80	1046.15	699.65
1063.16	701.50	1071.44	702.40	1075.57	702.85
1105.00	706.05	0.00	0.00	0.00	0.00

709

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
7651.00	0.001	0.075	701.63

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
703.70	1.00	715.00	975.00

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

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

6197.87 0.00 184.09 1047.43

ENCROACHMENT DISTANCE FROM LEFT BANK = 530.91 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 72.43 FEET

709

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
706.05	26855.07	8769.92	1118.69
702.85	11761.30	5280.06	1085.89
702.40	10086.19	4798.02	1076.34
701.50	7222.47	3858.71	1030.29
699.65	2830.92	2087.06	903.29
698.60	1432.70	1350.99	845.82
698.78	1426.32	1334.44	825.66
698.75	1423.16	1309.99	790.99
698.72	1388.37	1286.61	784.76
698.25	998.21	960.44	619.77
698.15	932.66	901.03	584.99
698.00	845.02	818.37	533.29
697.90	811.64	768.31	483.82
697.65	731.88	661.25	388.27
697.35	636.33	558.22	313.60
696.00	166.95	210.43	215.10
695.95	230.59	202.51	113.96
695.50	412.38	191.74	41.57
689.85	0.21	1.63	24.35
689.35	0.01	0.16	5.32
689.29	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
717.25	1.00	396.00	422.00

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

420

N=21

UNMODIFIED AREA CONVEYANCE	PERCENT DIFF OF MODIFICATION	X-VALUE OF L ENCROACH STA	X-VALUE OF R ENCROACH STA
7073.41	0.00	61.61	1005.91

ENCROACHMENT DISTANCE FROM LEFT BANK = 334.39 FEET

ENCROACHMENT DISTANCE FROM RIGHT BANK = 583.91 FEET

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
718.50	70237.80	8475.80	1140.66
713.25	12283.25	2721.70	1071.42
712.40	6312.44	1821.39	1065.47
711.90	4105.77	1328.73	923.27
711.75	3596.72	1195.91	865.40
710.50	1143.67	430.59	375.43
710.45	1120.91	412.86	348.33
710.40	1118.77	396.62	315.98
710.30	1122.48	368.48	261.57
710.10	1111.05	324.43	193.21
710.00	1061.04	306.49	179.58
709.70	918.50	259.53	147.12
709.40	752.43	219.79	130.96
709.20	688.79	196.61	113.66
708.60	948.87	154.68	38.43
707.64	724.18	125.35	34.07
707.42	679.73	119.15	33.01
706.15	421.98	85.62	29.54
702.70	7.41	6.55	20.54

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
702.30	0.16	0.50	10.11
702.20	0.00	0.00	0.00

GRANTS CREEK FLOODWAY

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

GRANTS CREEK STA 91302 CROSS SECTION *AY*

DESIGED Q	AVER SLOPE	MANNINGS N
2453.00	0.0062	0.095

X VALUE	Y VALUE	X VALUE	Y VALUE	X VALUE	Y VALUE
961.00	775.21	991.37	773.10	1000.00	772.50
1090.48	768.70	1100.00	768.30	1200.00	765.40
1213.04	765.10	1300.00	763.10	1351.85	761.70
1400.00	760.40	1409.63	760.20	1432.74	759.72
1452.00	759.32	1457.85	756.57	1465.45	753.00
1467.00	752.27	1467.87	751.24	1468.66	750.29
1469.00	749.89	1479.00	750.29	1494.00	751.24
1497.51	752.27	1500.00	753.00	1557.00	756.57
1561.37	759.32	1562.00	759.72	1600.00	760.20
1613.33	760.40	1700.00	761.70	1741.18	763.10
1800.00	755.10	1809.33	765.40	1888.89	768.30
1900.00	768.70	1986.36	772.50	2000.00	773.10
2000.00	775.21	0.00	0.00	0.00	0.00

COMPUTED Q CFS	AVER SLOPE	MANNINGS N	ELEVATION FT
2453.00	0.006	0.095	760.82

FRINGE AND ENCROACHMENT STATIONS FOR THE ABOVE CROSS SECTION

NATURAL WATER FLOOD LEVEL	FEET ADDED TO NATURAL	X-VALUE L BANK	X-VALUE R BANK
758.30	1.00	1452.00	1562.00

ENCROACHMENT STATIONS ARE SET AT BANKS

*F.L.E.V.
A=598.4*

1469 = ϕ

CROSS SECTION TABLE DUMP

ELEVATION	DISCHARGE Q	AREA	WETTED P
775.21	69300.70	11404.00	1045.64
773.10	49874.42	9243.74	1013.09
772.50	45276.47	8645.24	990.78
768.70	22360.63	5233.06	813.78
768.30	20478.58	4913.37	773.13
765.40	10031.06	2807.40	612.48
765.10	9230.71	2708.11	591.09
763.10	5031.07	1679.97	445.26
761.70	3026.04	1127.45	352.19
760.40	2175.25	762.48	217.34
760.20	2140.30	722.11	194.30
759.72	2282.88	645.40	133.26
759.32	2238.70	597.68	113.24
756.57	809.92	110.97	101.62
753.00	141.94	72.31	36.12
752.27	79.57	48.56	31.81
751.24	19.31	19.39	25.80
750.29	0.86	2.07	10.53
749.89	0.00	0.00	0.00

Area

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

C
 T1 LANDIS-ROWAN CO. BASIN A-E STREAM 1-4L GRANT'S CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INS	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	2.	0.	0.	0.005000	0.0	0.0	0.	731.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	51.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	201.000	0.0	0.0	0.0	0.0	0.0
J5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ERROR STATEMENT APPLIES TO SECTION

MADE IN U.S.A.

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

T1 LANDIS-ROWAN CO. BASIN A-E STREAM 1-4L GRANT'S CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INR	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	EQ
	-10.	4.	0.	0.	0.005000	0.0	0.0	0.	733.700	0.0
J2	NPROF	IPLLOT	PREVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

U.S. MADE IN U.S.A.

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRHS	VCH	SSTA	ENOST	AREA	DIFWSP
87060.000	87060.00	0.0	0.0	1456.00	729.00	738.74	0.0	3.69	123.98	372.89	588.40	0.0
87060.000	87060.00	0.0	0.0	2695.00	729.00	740.07	0.0	4.15	120.98	443.38	966.04	1.33
88010.000	50.00	0.0	0.0	1456.00	729.00	738.99	0.0	3.34	123.41	379.66	650.54	0.0
88010.000	50.00	0.0	0.0	2695.00	729.00	740.32	0.0	3.81	120.41	444.32	1047.21	1.33
88060.000	50.00	0.0	0.0	1456.00	729.00	738.93	0.0	4.89	270.00	406.69	309.80	0.0
88060.000	50.00	0.0	0.0	2695.00	729.00	740.04	0.0	7.44	239.61	450.11	493.25	1.12
88092.000	32.00	739.40	737.80	1456.00	729.00	739.15	0.0	4.74	270.00	415.32	338.01	0.0
88092.000	32.00	739.40	737.80	2695.00	729.00	740.09	0.0	7.37	237.55	452.82	502.65	0.94
88142.000	50.00	0.0	0.0	1456.00	729.40	739.55	0.0	1.10	53.93	440.65	1756.68	0.0
88142.000	50.00	0.0	0.0	2695.00	729.40	740.97	0.0	1.47	48.10	445.26	2311.91	1.42
88192.000	50.00	0.0	0.0	1456.00	729.70	739.57	0.0	1.19	55.08	439.73	1648.01	0.0
88192.000	50.00	0.0	0.0	2695.00	729.70	740.99	0.0	1.55	49.23	444.37	2203.53	1.43
* 89400.000	1208.00	0.0	0.0	1379.00	736.50	742.90	742.90	12.80	1270.94	1293.13	107.72	0.0
* 89400.000	1208.00	0.0	0.0	2556.00	736.50	745.29	745.29	8.68	1199.06	1499.68	485.64	2.40
91480.000	2080.00	0.0	0.0	1329.00	749.80	759.59	754.80	2.19	1430.14	1561.83	612.50	0.0
91480.000	2080.00	0.0	0.0	2453.00	749.80	761.04	0.0	3.04	1376.24	1656.10	908.34	1.45
91530.000	50.00	0.0	0.0	1329.00	750.00	759.69	0.0	2.23	1433.65	1561.68	600.22	0.0
91530.000	50.00	0.0	0.0	2453.00	750.00	761.19	0.0	3.07	1378.10	1652.75	894.40	1.50
91557.000	25.00	0.0	0.0	1329.00	750.50	759.66	0.0	3.65	1500.00	1592.40	493.82	0.0
91557.000	25.00	0.0	0.0	2453.00	750.50	761.12	0.0	5.27	1500.00	1700.64	662.19	1.45
91581.000	26.00	760.60	759.10	1329.00	750.50	760.22	0.0	3.33	1500.00	1596.95	546.89	0.0
91581.000	26.00	760.60	759.10	2453.00	750.50	761.96	0.0	4.46	1449.13	1733.20	865.23	1.74
91606.000	25.00	0.0	0.0	1329.00	750.20	760.32	0.0	2.06	1417.85	1578.67	659.94	0.0
91606.000	25.00	0.0	0.0	2453.00	750.20	762.11	0.0	2.63	1351.30	1700.44	1120.32	1.80
91656.000	50.00	0.0	0.0	1329.00	750.40	760.41	0.0	2.10	1422.04	1570.11	642.55	0.0
91656.000	50.00	0.0	0.0	2453.00	750.40	762.21	0.0	2.69	1355.08	1694.19	1085.15	1.81

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRINS	VCH	SSTA	ENDST	AREA	DIFWSP
* 93280.000	1624.00	0.0	0.0	456.00	771.20	774.68	774.68	9.00	1355.03	1378.64	53.22	0.0
F 93280.000	1624.00	0.0	0.0	1003.00	771.20	776.47	776.47	10.70	1344.43	1379.57	105.95	1.80
W 93330.000	50.00	0.0	0.0	456.00	771.70	777.17	0.0	4.58	1343.26	1379.68	113.09	0.0
W 93330.000	50.00	0.0	0.0	1003.00	771.70	779.13	0.0	5.24	1331.71	1441.58	265.73	1.95
W 93380.000	50.00	0.0	0.0	456.00	772.20	777.41	0.0	5.40	1352.00	1369.00	84.38	0.0
W 93380.000	50.00	0.0	0.0	1003.00	772.20	779.00	0.0	9.01	1352.00	1369.00	111.36	1.58
W 93408.000	28.00	781.00	779.40	456.00	772.20	777.41	0.0	5.40	1352.00	1369.00	84.39	0.0
W 93408.000	28.00	781.00	779.40	1003.00	772.20	779.72	0.0	8.12	1352.00	1369.00	123.54	2.30
W 93458.000	50.00	0.0	0.0	456.00	772.70	777.92	0.0	4.94	1344.72	1379.55	104.24	0.0
W 93458.000	50.00	0.0	0.0	1003.00	772.70	780.99	0.0	3.91	1326.65	1461.08	370.57	3.07
W 93508.000	50.00	0.0	0.0	456.00	773.20	778.74	0.0	4.49	1342.85	1379.71	115.60	0.0
W 93508.000	50.00	0.0	0.0	1003.00	773.20	781.28	0.0	4.20	1327.88	1456.33	303.09	2.54
W 95558.000	2050.00	0.0	0.0	394.00	787.40	791.52	0.0	4.64	1099.87	1131.36	84.91	0.0
A 95558.000	2050.00	0.0	0.0	842.00	787.40	792.72	0.0	6.75	1092.77	1134.31	128.30	1.20
STOP												
* 96008.000	1250.00	0.0	0.0	394.00	803.90	807.23	807.23	7.41	1231.68	1306.58	86.74	0.0
B 96008.000	1250.00	0.0	0.0	841.00	803.90	808.16	808.16	8.96	1210.19	1312.55	169.26	0.93
C 97208.000	400.00	0.0	0.0	240.00	805.00	809.10	0.0	3.45	1329.90	1381.16	102.10	0.0
C 97208.000	400.00	0.0	0.0	555.00	805.00	810.32	0.0	5.15	1318.15	1385.84	174.49	1.22
97258.000	50.00	0.0	0.0	240.00	805.10	809.16	0.0	3.50	1330.29	1381.00	100.02	0.0
97258.000	50.00	0.0	0.0	555.00	805.10	810.41	0.0	5.16	1318.23	1385.81	173.95	1.25
97308.000	50.00	0.0	0.0	240.00	805.30	809.20	0.0	4.22	1336.43	1380.88	71.62	0.0
97308.000	50.00	0.0	0.0	555.00	805.30	810.53	0.0	5.00	1323.40	1386.89	143.18	1.33
97374.000	66.00	817.70	808.30	240.00	805.30	816.04	0.0	0.40	1259.13	1425.81	742.18	0.0
97374.000	66.00	817.70	808.30	555.00	805.30	818.88	0.0	0.53	1223.20	1461.29	1316.72	2.84
97424.000	50.00	0.0	0.0	240.00	806.70	816.04	0.0	0.78	1272.90	1404.25	563.28	0.0
97424.000	50.00	0.0	0.0	555.00	806.70	818.88	0.0	1.05	1236.99	1439.72	1037.21	2.84
D 97474.000	50.00	0.0	0.0	240.00	808.10	816.04	0.0	1.08	1290.61	1395.93	399.27	0.0
D 97474.000	50.00	0.0	0.0	555.00	808.10	818.87	0.0	1.35	1254.70	1422.23	778.14	2.84
E 98274.000	800.00	0.0	0.0	171.00	824.40	826.76	826.76	6.88	1257.62	1274.90	24.84	0.0
E 98274.000	800.00	0.0	0.0	411.00	824.40	828.10	828.10	7.81	1232.10	1282.87	61.02	1.34

SUMMARY OF ERRORS

- CAUTION SECNO=89400.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=89400.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=89400.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=89400.000 PROFILE= 1 SLOPE TOO STEEP
- CAUTION SECNO=89400.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=89400.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=89400.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

MADE IN U.S.A.

CAUTION SECNO=93280.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93280.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93280.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=93280.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93280.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93280.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=96808.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=96808.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=96808.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=96808.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=96808.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=96808.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=98274.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=98274.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=98274.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=98274.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=98274.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=98274.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

MADE IN U.S.A.

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FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10'	2'	0.2'
87060.000	0.	738.7	740.1	0.0
88010.000	50.	735.3	736.6	120.3
88060.000	100.	****	****	****
88092.000	132.	0.2	1.1	****
88142.000	162.	739.6	741.0	0.0
88190.000	252.	****	****	****
89400.000	1440.	336.2	338.6	-96.9
91400.000	3520.	20.2	21.6	-1.6
91530.000	3570.	754.9	756.4	265.3
91555.000	3595.	****	****	****
91661.000	3621.	20.7	22.4	****
91606.000	3646.	750.3	752.1	0.0
91656.000	3696.	****	****	****
93280.000	5320.	334.9	336.7	****
93330.000	5370.	777.2	779.1	0.0
93380.000	5420.	764.6	766.2	****
93406.000	5446.	****	****	****
93458.000	5498.	18.3	21.4	-4.6
93508.000	5548.	778.7	781.3	0.0
95556.000	7598.	****	****	****
96808.000	8848.	****	****	****
97203.000	9240.	809.1	810.3	0.0
97258.000	9290.	805.5	806.8	****
97308.000	9348.	****	****	****
97374.000	9414.	55.0	58.7	****
97424.000	9464.	816.0	818.9	0.0
97474.000	9514.	****	****	****
98274.000	10314.	****	****	****
WEIGHTED AVG FOR REACH		****	****	****

EHF FOR THE REACH = 200 WITH 0.00 OF THE REACH WITHIN 3.0 FEET
 ZONE FOR THE REACH = A30

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			STD. AVG.	PERCENT WITHIN
		10'	1'	DIFF.		
1	0.				SEC. 87060.000	
	100.	739.0	3.7	735.3	735.3	005 100.
	50.				SEC. 88010.000	
	100.				SEC. 88060.000	
	132.				SEC. 88092.000	

2	182.								
	200.	739.6	262.1	477.5	606.4	005	0.		
	232.								
	300.	739.7	960.5	-220.9	330.6	005	0.		
3	400.	739.9	1353.5	-613.6	94.6	005	0.		
4	500.	740.2	1266.6	-526.5	-29.6	200	0.		
5	600.	740.4	1179.8	-439.3	-97.9	200	0.		
6	700.	740.7	1092.9	-352.2	*****	200	0.		
7	800.	741.0	1006.0	-265.1	*****	200	0.		
8	900.	741.3	919.2	-177.9	*****	200	0.		
9	1000.	741.5	832.3	-90.8	*****	200	0.		
10	1100.	741.8	745.5	-3.6	*****	200	0.		
11	1200.	742.1	658.6	83.5	*****	200	0.		
12	1300.	742.4	571.7	170.6	-94.1	200	0.		
13	1400.	742.6	484.9	257.8	-68.9	200	0.		
14	1440.								
	1500.	743.1	428.9	314.2	-43.4	200	0.		
15	1600.	743.8	424.3	319.5	-20.7	200	0.		
16	1700.	744.6	440.3	304.3	-1.6	015	0.		
17	1800.	745.4	456.3	289.1	14.6	005	0.		
18	1900.	746.2	472.3	273.9	28.2	005	0.		
19	2000.	747.0	488.3	258.7	39.7	005	0.		
20	2100.	747.8	504.3	243.5	49.4	005	0.		
21	2200.	748.6	520.3	228.3	57.6	005	0.		
22	2300.	749.4	536.3	213.1	64.3	005	0.		
23	2400.	750.2	552.3	197.9	69.9	005	0.		
24	2500.	751.0	568.2	182.8	74.4	005	0.		
25	2600.	751.8	584.2	167.6	78.0	005	0.		
26	2700.	752.6	600.2	152.4	80.7	005	0.		
27	2800.	753.4	616.2	137.2	82.8	005	0.		
28	2900.	754.2	632.2	122.0	84.1	005	0.		
29	3000.	755.0	648.2	106.8	84.9	005	0.		
30	3100.	755.8	664.2	91.6	85.1	005	0.		
31	3200.	756.6	680.2	76.4	84.8	005	0.		
32	3300.	757.4	696.2	61.2	84.1	005	0.		
33	3400.	758.2	712.2	46.0	83.0	005	0.		
34	3500.	759.0	728.2	30.8	81.5	005	0.		
	3520.								
	3570.								
	3595.								
	3600.	759.7	*****	*****	*****	200	0.		
	3621.								
	3646.								
	3696.								
	3700.	760.4	1454.7	-694.3	*****	200	0.		
37	3800.	760.9	1422.2	-661.3	*****	200	0.		
38	3900.	761.8	1359.6	-597.9	*****	200	0.		
39	4000.	762.6	1297.1	-534.4	*****	200	0.		
40	4100.	763.5	1234.5	-471.0	*****	200	0.		
41	4200.	764.4	1171.9	-407.5	*****	200	0.		
42	4300.	765.3	1109.3	-344.0	*****	200	0.		
43	4400.	766.2	1046.7	-280.6	*****	200	0.		
44	4500.	767.0	984.2	-217.1	*****	200	0.		
45	4600.	767.9	921.6	-153.7	*****	200	0.		
46	4700.	768.8	859.0	-90.2	*****	200	0.		
47	4800.	769.7	796.4	-26.8	*****	200	0.		
48	4900.	770.5	733.8	36.7	*****	200	0.		
49	5000.	771.4	671.3	100.2	*****	200	0.		
50	5100.	772.3	608.7	163.6	*****	200	0.		
51	5200.	773.2	546.1	227.1	*****	200	0.		
52	5300.	774.1	483.5	290.5	*****	200	0.		
	5320.								
	5370.								
	5400.	777.2	3.8	773.4	*****	200	0.		
	5420.								
	5448.								

SEC. 88142,000

SEC. 88192,000

SEC. 89400,000

SEC. 91480,000

SEC. 91530,000

SEC. 91555,000

SEC. 91581,000

SEC. 91606,000

SEC. 91656,000

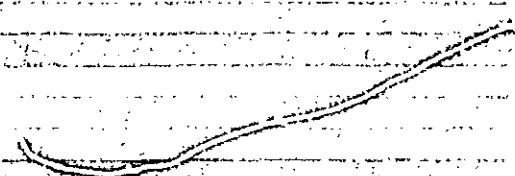
SEC. 93280,000

SEC. 93330,000

SEC. 93300,000

SEC. 93408,000

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55	5498.	777.9	744.4	33.5	****	SEC.	93458.000	0.
56	5500.				****	SEC.	200	0.
57	5548.				****	SEC.	93508.000	0.
58	5600.	778.5	381.5	397.1	****	SEC.	200	0.
59	5700.	779.4	66.1	713.3	****	SEC.	200	0.
60	5800.	780.0	131.0	642.0	****	SEC.	200	0.
61	5900.	780.6	125.3	584.8	****	SEC.	200	0.
62	6000.	781.2	260.6	520.6	****	SEC.	200	0.
63	6100.	781.9	325.4	456.4	****	SEC.	200	0.
64	6200.	782.5	390.3	392.2	****	SEC.	200	0.
65	6300.	783.1	455.1	328.0	****	SEC.	200	0.
66	6400.	783.7	519.9	263.8	****	SEC.	200	0.
67	6500.	784.4	584.8	199.6	****	SEC.	200	0.
68	6600.	785.0	649.6	135.4	****	SEC.	200	0.
69	6700.	785.6	714.4	71.2	****	SEC.	200	0.
70	6800.	786.2	779.2	7.0	****	SEC.	200	0.
71	6900.	786.9	844.1	-57.2	****	SEC.	200	0.
72	7000.	787.5	908.9	-121.4	****	SEC.	200	0.
73	7100.	788.1	973.7	-185.6	****	SEC.	200	0.
74	7200.	788.7	1038.6	-249.8	****	SEC.	200	0.
75	7300.	789.4	1103.4	-314.0	****	SEC.	200	0.
76	7400.	790.0	1168.2	-378.2	****	SEC.	200	0.
77	7500.	790.6	1233.1	-442.5	****	SEC.	200	0.
78	7598.				****	SEC.	95558.000	0.
79	7600.	791.2	1297.4	-506.2	****	SEC.	200	0.
80	7700.	792.2	1338.7	-546.3	****	SEC.	200	0.
81	7800.	793.4	1357.3	-563.9	****	SEC.	200	0.
82	7900.	794.7	1375.5	-581.2	****	SEC.	200	0.
83	8000.	795.9	1394.5	-598.6	****	SEC.	200	0.
84	8100.	797.2	1413.1	-615.9	****	SEC.	200	0.
85	8200.	798.5	1431.8	-633.3	****	SEC.	200	0.
86	8300.	799.7	1450.4	-650.7	****	SEC.	200	0.
87	8400.	801.0	1469.0	-668.0	****	SEC.	200	0.
88	8500.	802.2	1487.6	-685.4	****	SEC.	200	0.
89	8600.	803.5	1506.2	-702.7	****	SEC.	200	0.
90	8700.	804.7	1524.8	-720.1	****	SEC.	200	0.
91	8800.	805.0	1543.4	-737.4	****	SEC.	200	0.
92	8848.				****	SEC.	96808.000	0.
93	8900.	807.0	1455.7	-648.7	****	SEC.	200	0.
94	9000.	807.7	1463.3	-655.7	****	SEC.	200	0.
95	9100.	808.2	773.0	35.1	****	SEC.	200	0.
96	9200.	808.6	382.6	426.0	****	SEC.	200	0.
97	9248.				****	SEC.	97208.000	0.
98	9298.				****	SEC.	97258.000	0.
99	9300.	809.2	1835.2	****	****	SEC.	200	0.
100	9348.				****	SEC.	97308.000	0.
101	9400.	811.9	****	****	****	SEC.	200	0.
102	9414.				****	SEC.	97374.000	0.
103	9464.				****	SEC.	97424.000	0.
104	9500.	816.0	478.4	337.6	****	SEC.	200	0.
105	9514.				****	SEC.	97474.000	0.
106	9600.	816.6	1156.4	-339.7	****	SEC.	200	0.
107	9700.	817.9	1371.4	-553.6	****	SEC.	200	0.
108	9800.	819.2	1402.7	-583.5	****	SEC.	200	0.
109	9900.	820.5	1433.9	-613.3	****	SEC.	200	0.
110	10000.	821.9	1465.1	-643.2	****	SEC.	200	0.
111	10100.	823.2	1496.3	-673.1	****	SEC.	200	0.
112	10200.	824.6	1527.5	-702.9	****	SEC.	200	0.
113	10300.	825.9	1558.7	-732.8	****	SEC.	200	0.
114	10314.				****	SEC.	98274.000	0.

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 200 WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 1 103
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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

EU

MADE IN U. S. A.

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

T1 ROWAN CO. BASIN E STREAM 1 GRANTS CREEK PROFILE ONE 500 YEAR ONLY
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.003000	0.0	-1.0	0.	626.200	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	1.000	30600.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
X1	40.000	15.000	500.000	556.000	4000.000	4000.000	4000.000	4000.000	0.0	0.0
GR	640.000	0.0	630.000	140.000	620.000	420.000	624.500	500.000	618.000	506.000
GR	618.000	550.000	624.700	556.000	620.000	566.000	620.000	646.000	630.000	706.000
GR	630.000	766.000	615.000	1115.000	620.000	2065.000	630.000	2175.000	640.000	2245.000
X1	50.000	12.000	350.000	406.000	1000.000	1000.000	1000.000	1000.000	0.0	0.0
GR	640.000	0.0	630.000	120.000	620.000	340.000	624.500	350.000	619.000	356.000
GR	619.000	400.000	625.700	406.000	620.000	506.000	619.000	1256.000	620.000	2000.000

GR	640.000	0.0	630.000	140.000	620.000	420.000	624.500	500.000	618.000	506.000
GR	618.000	550.000	624.700	556.000	620.000	566.000	620.000	646.000	630.000	706.000
GR	630.000	766.000	615.000	1115.000	620.000	2065.000	630.000	2175.000	640.000	2245.000
X1	50.000	12.000	350.000	406.000	1000.000	1000.000	1000.000	0.0	0.0	0.0
GR	640.000	0.0	630.000	120.000	620.000	340.000	624.500	350.000	619.000	356.000
GR	619.000	400.000	625.700	406.000	620.000	506.000	619.000	1256.000	620.000	2000.000
GR	630.000	2300.000	640.000	2600.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	5800.000	25.000	350.000	406.000	800.000	800.000	800.000	0.0	0.0	0.0
GR	646.700	0.0	646.300	42.000	634.500	115.000	634.700	180.000	630.400	195.000
GR	620.400	219.000	627.000	252.000	625.900	265.000	626.600	350.000	620.500	356.000
GR	620.500	400.000	627.200	406.000	626.200	442.000	627.500	509.000	626.300	570.000
GR	627.500	580.000	627.200	640.000	626.200	650.000	625.200	835.000	623.700	1100.000
GR	624.200	1130.000	624.200	1250.000	626.300	1400.000	627.700	1500.000	634.700	1585.000
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	72.550	0.0	0.0	0.0	1455.000	1455.000	1455.000	0.0	1.250	0.0
X1	8760.000	24.000	594.000	653.000	1455.000	1455.000	1455.000	0.0	0.0	0.0
GR	640.900	50.000	639.600	105.000	635.200	120.000	634.400	150.000	631.900	235.000
GR	630.100	240.000	630.100	330.000	629.500	400.000	631.600	508.000	630.500	555.000
GR	631.500	594.000	623.500	600.000	623.000	637.000	631.200	653.000	632.500	669.000
GR	631.200	695.000	631.600	845.000	630.300	1105.000	629.400	1323.000	628.300	1352.000
GR	630.400	1375.000	629.100	1555.000	635.800	1675.000	647.800	1736.000	0.0	0.0
X1	8845.000	13.000	543.000	673.000	85.000	85.000	85.000	0.0	0.0	0.0
GR	644.800	0.0	633.300	224.000	631.500	245.000	631.700	422.000	633.000	543.000
GR	630.200	543.000	623.900	570.000	623.900	645.000	630.200	673.000	633.000	673.000
GR	632.200	871.000	639.700	1063.000	647.700	1220.000	0.0	0.0	0.0	0.0
SR	1.250	1.500	2.500	0.0	130.000	6.200	607.000	0.0	0.0	0.0
X1	8876.000	0.0	0.0	0.0	31.000	31.000	31.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	630.200	0.0	0.0	0.0	0.0	0.0	0.0
BT	9.000	0.0	644.800	0.0	224.000	633.500	0.0	245.000	631.500	0.0
BT	422.000	631.700	0.0	543.000	633.000	630.200	673.000	633.000	630.200	871.000
BT	632.200	0.0	1063.000	639.700	0.0	1220.000	647.700	0.0	0.0	0.0
NC	0.080	0.080	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	8960.000	18.000	703.000	750.000	84.000	84.000	84.000	0.0	0.0	0.0
GR	644.200	0.0	633.600	155.000	627.300	327.000	626.700	460.000	627.800	495.000
GR	627.100	555.000	627.900	595.000	627.600	612.000	630.100	652.000	629.900	692.000
GR	628.100	703.000	624.200	706.000	624.500	745.000	629.800	750.000	630.800	770.000

BT	632.200	0.0	1063.000	639.700	0.0	1220.000	647.700	0.0	0.0	0.0
NC	0.080	0.080	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	8960.000	19.000	703.000	750.000	84.000	84.000	84.000	0.0	0.0	0.0
GR	644.200	0.0	633.600	155.000	627.300	327.000	626.700	460.000	627.800	495.000
GR	627.100	555.000	627.900	595.000	627.600	612.000	630.100	652.000	629.900	692.000
GR	628.100	703.000	624.200	706.000	624.500	745.000	629.800	750.000	630.800	770.000
GR	630.100	780.000	630.800	809.000	631.800	815.000	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	10400.000	23.000	1080.000	1135.000	1440.000	1440.000	1440.000	0.0	0.0	0.0
GR	643.700	0.0	641.200	117.000	642.000	139.000	630.200	400.000	629.300	480.000
GR	629.300	532.000	628.600	573.000	631.300	710.000	631.500	840.000	630.300	937.000
GR	628.600	955.000	627.900	785.000	630.400	1062.000	629.900	1080.000	622.000	1086.000
GR	624.400	1130.000	630.300	1135.000	628.500	1160.000	629.300	1260.000	631.000	1310.000
GR	630.700	1368.000	634.800	1441.000	639.800	1500.000	0.0	0.0	0.0	0.0
NC	0.090	0.090	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	11950.000	16.000	1059.000	1105.000	1550.000	1550.000	1550.000	0.0	0.0	0.0
GR	651.300	0.0	645.200	150.000	641.100	235.000	633.700	369.000	634.500	379.000
GR	633.000	950.000	634.900	1048.000	634.000	1059.000	625.200	1060.000	626.500	1090.000
GR	634.600	1105.000	637.000	1175.000	638.900	1190.000	642.100	1240.000	643.300	1345.000
GR	648.100	1473.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	13400.000	12.000	720.000	775.000	1450.000	1450.000	1450.000	0.0	-2.194	0.0
GR	649.000	0.0	633.000	600.000	634.000	720.000	632.300	725.000	632.100	730.000
GR	624.800	752.000	625.700	770.000	634.000	775.000	638.800	802.000	636.000	815.000
GR	635.600	900.000	649.000	1600.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	13450.000	0.0	0.0	0.0	50.000	50.000	50.000	1.000	0.500	0.0
X1	13500.000	0.0	0.0	0.0	50.000	50.000	50.000	1.000	0.500	0.0
X1	13530.000	0.0	0.0	0.0	30.000	30.000	30.000	1.000	0.400	0.0
X1	13555.000	0.0	0.0	0.0	25.000	25.000	25.000	1.000	0.300	0.0
X1	13580.000	12.000	720.000	800.000	25.000	25.000	25.000	0.0	-2.194	0.0
GR	650.000	0.0	644.500	350.000	636.000	720.000	634.200	720.000	633.500	740.000
GR	627.000	760.000	627.000	790.000	628.500	800.000	636.000	800.000	638.000	900.000

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

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

500 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECCO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
40.000	4000.00	0.0	0.0	30600.00	615.00	624.84	0.0	4.64	284.44	2118.26	9591.74	0.0
50.000	1000.00	0.0	0.0	30600.00	619.00	626.94	0.0	3.64	187.30	2208.23	13233.79	0.0
A 5800.000	800.00	0.0	0.0	30600.00	620.50	629.13	0.0	14.31	210.26	1517.34	4713.12	0.0
72.550	1455.00	0.0	0.0	30600.00	621.75	635.26	0.0	5.21	182.42	1576.56	11318.94	0.0
B 8760.000	1455.00	0.0	0.0	30600.00	623.00	637.58	0.0	5.99	111.86	1684.08	10863.96	0.0
8845.000	35.00	0.0	0.0	30600.00	623.90	636.85	0.0	12.61	154.76	990.16	4322.18	0.0
* 8876.000	31.00	631.50	630.20	30600.00	623.90	636.85	0.0	12.60	154.74	990.19	4323.23	0.0
C 8960.000	84.00	0.0	0.0	30600.00	624.20	638.61	0.0	7.27	81.67	815.00	6850.80	0.0
10400.000	1440.00	0.0	0.0	30600.00	622.00	640.78	0.0	4.75	165.92	1500.00	12835.96	0.0
11950.000	1550.00	0.0	0.0	30600.00	625.20	642.73	0.0	7.29	201.18	1295.26	8296.46	0.0
13400.000	1450.00	0.0	0.0	30600.00	622.61	645.04	0.0	5.67	66.13	1507.89	11419.88	0.0
13450.000	50.00	0.0	0.0	30600.00	623.11	645.08	0.0	6.02	83.47	1483.73	10762.73	0.0
13500.000	50.00	0.0	0.0	30600.00	623.61	645.12	0.0	6.38	100.37	1460.18	10140.65	0.0

8960.000	84.00	0.0	0.0	30600.00	624.20	638.61	0.0	7.27	91.67	815.00	8000.00	0.0
10400.000	1440.00	0.0	0.0	30600.00	622.00	640.78	0.0	4.75	165.92	1500.00	12835.96	0.0
11950.000	1550.00	0.0	0.0	30600.00	625.20	642.73	0.0	7.29	201.18	1295.26	8296.46	0.0
13400.000	1450.00	0.0	0.0	30600.00	622.61	645.04	0.0	5.67	66.13	1507.89	11419.88	0.0
13450.000	50.00	0.0	0.0	30600.00	623.11	645.08	0.0	6.02	83.47	1483.73	10762.73	0.0
13500.000	50.00	0.0	0.0	30600.00	623.61	645.12	0.0	6.38	100.37	1460.18	10140.65	0.0
13530.000	30.00	0.0	0.0	30600.00	624.01	645.15	0.0	6.71	114.38	1440.67	9639.10	0.0
13555.000	25.00	0.0	0.0	30600.00	624.31	645.17	0.0	6.97	124.71	1426.28	9277.13	0.0
13580.000	25.00	0.0	0.0	30600.00	624.81	644.95	0.0	9.20	181.92	1218.08	6293.37	0.0
* 13620.000	40.00	640.60	639.10	30600.00	625.21	645.57	0.0	8.89	167.14	1232.86	6537.43	0.0
13644.000	24.00	0.0	0.0	30600.00	624.81	645.85	0.0	7.66	16.39	591.39	6670.46	0.0
13669.000	25.00	0.0	0.0	30600.00	624.91	645.89	0.0	7.69	17.00	591.07	6641.23	0.0
13700.000	31.00	0.0	0.0	30600.00	625.11	645.94	0.0	7.79	18.83	590.11	6554.13	0.0

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
14194.000	494.00	0.0	0.0	30600.00	625.21	646.83	0.0	7.28	9.24	595.14	7014.62	0.0
14700.000	506.00	0.0	0.0	30600.00	625.61	647.39	0.0	2.10	0.0	1980.00	24010.33	0.0
15400.000	700.00	0.0	0.0	30600.00	626.21	647.52	0.0	3.14	8.65	1622.53	16047.31	0.0

SUMMARY OF ERRORS

CAUTION SECNO= 8876.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=13620.000 PROFILE= 1 HYDRAULIC JUMP D.S.

T1 GRANT CREEK
T2 SALTBRADY A.C.
T3 100 YR FLOOD

AUG 1974

DATE 06/20/74 TIME 10:15.0

Floodway

ENCLOSURE 5

NO	ISBECK	INO	IPLOT	IPFVS	IP12	SINT	HEPIC	WINGS	B	AREF	F3	ITRADE
J1	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J2	1.000	34.000	5.000	0.000	0.000	0.000	27.000	25.000	0.000	20.000	21.000	22.000
J3	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J4	0.000	19000.000	10000.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J5	0.000	0.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K1	129.040	12.000	720.000	775.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K2	005.000	0.000	633.000	600.000	634.000	720.000	632.300	725.000	632.100	725.000	730.000	730.000
K3	625.600	752.000	625.700	770.000	634.000	775.000	636.000	636.000	636.000	636.000	636.000	636.000
K4	635.000	000.000	672.000	1000.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K5	129.040	0.000	0.000	0.000	50.000	50.000	50.000	50.000	50.000	50.000	50.000	50.000
K6	130.040	0.000	0.000	0.000	50.000	50.000	50.000	50.000	50.000	50.000	50.000	50.000
K7	130.040	0.000	0.000	0.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000
K8	130.040	0.000	0.000	0.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000
K9	130.040	12.000	720.000	000.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000
K10	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K11	500.000	0.000	500.000	350.000	430.000	730.000	430.000	730.000	430.000	730.000	730.000	730.000
K12	627.000	700.000	627.000	1700.000	625.500	600.000	625.500	600.000	625.500	600.000	600.000	600.000
K13	601.500	1050.100	650.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
L1	131.240	0.000	0.000	0.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000
L2	2.000	600.000	555.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
L3	131.500	12.000	600.000	450.000	24.000	24.000	24.000	24.000	24.000	24.000	24.000	24.000
L4	600.000	0.000	632.000	200.000	632.000	250.000	632.000	250.000	632.000	250.000	250.000	250.000
L5	632.000	200.000	634.000	400.000	627.000	415.000	627.000	415.000	627.000	415.000	415.000	415.000
L6	637.000	470.000	634.000	485.000	633.000	500.000	633.000	500.000	633.000	500.000	500.000	500.000
L7	131.750	0.000	0.000	0.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000
L8	132.000	0.000	0.000	0.000	31.000	31.000	31.000	31.000	31.000	31.000	31.000	31.000
L9	137.000	0.000	0.000	0.000	400.000	400.000	400.000	400.000	400.000	400.000	400.000	400.000
M1	141.700	12.000	1045.000	1542.000	470.000	470.000	470.000	470.000	470.000	470.000	470.000	470.000
M2	600.000	0.000	600.000	310.000	600.000	600.000	600.000	600.000	600.000	600.000	600.000	600.000
M3	1100.000	0.000	634.500	1300.000	635.000	1000.000	635.000	1000.000	635.000	1000.000	1000.000	1000.000
M4	625.000	1500.000	627.500	1520.000	626.300	1500.000	626.300	1500.000	626.300	1500.000	1500.000	1500.000
M5	635.000	1600.000	640.000	1500.000	640.000	1900.000	640.000	1900.000	640.000	1900.000	1900.000	1900.000
N1	140.770	21.000	1285.000	1350.000	600.000	600.000	600.000	600.000	600.000	600.000	600.000	600.000
N2	600.000	0.000	600.000	300.000	600.000	600.000	600.000	600.000	600.000	600.000	600.000	600.000
N3	630.200	1000.000	635.700	1172.000	635.000	1150.000	635.000	1150.000	635.000	1150.000	1150.000	1150.000
N4	635.000	1230.000	634.000	1240.000	634.700	1250.000	634.700	1250.000	634.700	1250.000	1250.000	1250.000
N5	625.000	1325.000	629.000	1345.000	629.000	1350.000	629.000	1350.000	629.000	1350.000	1350.000	1350.000
N6	650.000	1625.000	640.000	1600.000	640.000	1600.000	640.000	1600.000	640.000	1600.000	1600.000	1600.000

GR	645,000	0.000	542,700	250,000	513,300	400,000	640,400	655,000	635,100	440,000
GR	290,300	495,000	650,000	500,000	635,900	1000,000	636,500	1200,000	630,200	1300,000
GR	375,500	1405,000	630,700	1400,000	629,800	1422,000	630,500	1405,000	641,300	1445,000
GR	634,200	1500,000	537,700	1600,000	640,000	1730,000	650,000	1430,000	0.000	0.000
X1	171,900	17,000	1500,000	1,570,000	1620,000	1420,000	1620,000	0.000	0.000	0.000
GR	250,000	0.000	650,000	200,000	646,000	50,000	641,000	700,000	670,700	750,000
GR	630,000	230,000	610,100	675,000	630,500	670,000	642,000	900,000	670,000	915,000
GR	631,400	520,000	631,900	940,000	641,900	970,000	635,100	950,000	630,100	1000,000
GR	550,000	1550,000	650,000	1575,000	0.000	0.000	0.000	0.000	0.000	0.000
X1	190,270	15,000	1170,000	1245,000	1635,000	1635,000	1635,000	0.000	0.000	0.000
GR	540,000	0.000	650,000	140,000	642,000	520,000	641,600	1100,000	643,500	1155,000
GR	640,400	1170,000	641,600	1145,000	641,800	1190,000	635,000	1200,000	633,600	1225,000
GR	545,200	1755,000	641,900	1245,000	640,000	1370,000	640,000	1750,000	640,000	2200,000
X1	150,000	17,000	1525,000	1670,000	673,000	673,000	673,000	0.000	0.000	0.000
GR	640,000	650,000	650,000	750,000	640,000	1200,000	643,000	1500,000	643,000	1545,000
GR	640,500	1450,000	640,500	1600,000	642,700	1610,000	635,000	1512,000	630,500	1625,000
GR	635,000	1430,000	642,500	1595,000	646,000	1670,000	642,700	1700,000	630,000	2000,000
GR	650,000	2470,000	650,000	2650,000	0.000	0.000	0.000	0.000	0.000	0.000
GR	2,000	1650,000	1450,000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	213,000	15,000	1850,000	1730,000	1400,000	1400,000	1400,000	0.000	0.000	0.000
GR	650,000	50,000	650,000	300,000	645,000	1400,000	644,400	1625,000	650,000	1670,000
GR	645,700	1650,000	641,000	1670,000	630,000	1471,000	634,500	1700,000	642,200	1710,000
GR	646,700	1730,000	643,400	1615,000	641,400	1620,000	650,000	1855,000	640,000	2200,000
X1	213,300	0.000	0.000	0.000	30,000	30,000	30,000	0.000	0.000	0.000
X1	213,550	0.000	0.000	0.000	25,000	25,000	25,000	0.000	0.000	0.000
X1	213,800	0.000	0.000	0.000	25,000	25,000	25,000	0.000	0.000	0.000
X1	10,000	0.000	0.000	0.000	0.000	0.000	0.000	649,400	0.000	0.000
X1	214,200	0.000	652,900	0.000	40,000	40,000	40,000	0.000	0.000	0.000
X1	2,000	651,000	652,900	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	214,450	20,000	1450,000	1650,000	25,000	25,000	25,000	0.000	0.000	0.000
GR	640,000	70,000	650,000	150,000	653,000	440,000	649,700	1300,000	645,000	1330,000
GR	640,500	1350,000	640,500	1345,000	640,000	1440,000	640,400	1450,000	642,000	1425,000
GR	641,500	1495,000	640,000	1505,000	630,600	1545,000	635,500	1540,000	636,000	1570,000
GR	636,500	1575,000	645,400	1620,000	644,200	1645,000	650,000	2400,000	640,000	2525,000
X1	214,700	0.000	0.000	0.000	25,000	25,000	25,000	0.000	0.000	0.000
X1	215,000	0.000	0.000	0.000	30,000	30,000	30,000	0.000	0.000	0.000
X1	220,000	0.000	0.000	0.000	500,000	500,000	500,000	1,000	0.000	0.000
X1	227,000	16,000	925,000	1000,000	700,000	700,000	700,000	0.000	0.000	0.000
GR	640,000	50,000	650,000	250,000	646,000	610,000	645,200	600,000	620,400	600,000
GR	650,400	620,500	640,500	940,000	644,000	950,000	635,500	955,000	635,500	970,000
GR	650,500	940,000	650,400	1000,000	646,200	1100,000	646,000	2600,000	650,000	3200,000
GR	640,000	3350,000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	239,000	12,000	1210,000	1275,000	1200,000	1200,000	1200,000	0.000	0.000	0.000
GR	640,000	30,000	650,000	240,000	647,400	1100,000	646,100	1200,000	600,000	1210,000
GR	637,500	1220,000	637,100	1255,000	652,900	1275,000	650,000	1300,000	646,200	1400,000
GR	640,000	1560,000	640,000	2350,000	0.000	0.000	0.000	0.000	0.000	0.000
X1	247,000	0.000	0.000	0.000	600,000	600,000	600,000	1,000	0.000	0.000
X1	250,000	15,000	240,000	610,000	300,000	300,000	300,000	0.000	0.000	0.000
GR	670,000	70,000	640,000	275,000	644,200	300,000	642,000	345,000	657,000	400,000

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSFL	TO	FC	TOPPIN	STENCIL	STENCE	VPH
213.50	30.00	1440.00	1730.00	630.50	18500.00	451.41	4025.50	451.55	1605.09	0.00	0.00	4.73
213.30	30.00	1440.00	1730.00	630.50	18500.00	457.12	5102.30	652.27	1004.21	685.78	1730.00	4.44
213.55	25.00	1440.00	1730.00	630.50	18500.00	451.05	4091.96	451.56	1607.36	0.00	0.00	4.46
213.55	25.00	1440.00	1730.00	630.50	18500.00	657.15	5191.94	452.31	1007.27	482.73	1730.00	4.41
213.40	25.00	1440.00	1730.00	630.50	18500.00	451.09	5017.30	451.42	1609.57	0.00	0.00	4.44
213.40	25.00	1440.00	1730.00	630.50	18500.00	652.19	5200.80	452.32	1000.21	479.79	1730.00	4.57
214.20	40.00	1440.00	1730.00	630.50	18500.00	451.90	5733.99	452.01	1616.44	0.00	0.00	4.20
214.20	40.00	1440.00	1730.00	630.50	18500.00	457.90	4501.24	653.01	1000.42	535.58	1730.00	3.00
214.45	25.00	1450.00	1620.00	430.00	18500.00	451.45	4200.11	452.03	1906.43	0.00	0.00	4.55
214.45	25.00	1450.00	1620.00	430.00	18500.00	657.64	6704.31	453.03	703.08	1352.20	2175.35	4.01
214.70	25.00	1450.00	1620.00	430.00	18500.00	451.47	4219.16	452.05	1647.34	0.00	0.00	4.53
214.70	25.00	1450.00	1620.00	430.00	18500.00	452.44	6779.17	453.05	700.92	1380.97	2175.88	4.39
215.00	30.00	1450.00	1620.00	430.00	18500.00	451.90	4282.33	452.06	1877.13	0.00	0.00	4.50
215.00	30.00	1450.00	1620.00	430.00	18500.00	457.40	6817.97	453.07	700.44	1379.47	2176.13	4.37
220.00	500.00	1450.00	1620.00	430.00	18500.00	452.34	4020.17	452.53	1616.81	0.00	0.00	4.43
220.00	500.00	1450.00	1620.00	430.00	18500.00	453.26	4271.24	453.06	703.59	1320.53	2172.12	4.45
227.00	700.00	925.00	1000.00	635.50	18500.00	452.41	11971.23	452.43	3006.80	0.00	0.00	2.11
227.00	700.00	925.00	1000.00	635.50	18500.00	453.70	12450.75	453.73	2111.27	457.39	2158.64	2.15
239.00	1200.00	1210.00	1275.00	637.10	18500.00	453.23	5077.64	453.36	1770.76	0.00	0.00	4.30
239.00	1200.00	1210.00	1275.00	637.10	18500.00	454.08	5774.30	454.23	1041.22	435.97	4516.25	4.03
247.00	800.00	1210.00	1275.00	438.70	18500.00	454.20	4044.77	454.38	1717.46	0.00	0.00	5.48
247.00	800.00	1210.00	1275.00	438.70	18500.00	454.01	4725.42	455.22	1029.17	485.49	1495.07	5.42
250.00	100.00	610.00	610.00	439.00	18500.00	454.43	1709.03	454.07	240.39	0.00	0.00	14.72
250.00	100.00	610.00	610.00	439.00	18500.00	454.12	1395.23	461.45	92.41	417.59	0.00	19.05
250.30	30.00	640.00	610.00	439.06	18500.00	457.01	2143.62	460.34	245.42	0.00	0.01	10.04
250.30	30.00	640.00	610.00	439.06	18500.00	459.44	2423.50	461.05	142.73	477.27	0.00	12.46
250.55	25.00	640.00	610.00	439.11	18500.00	654.30	2311.46	660.51	270.74	0.00	0.00	13.47
250.55	25.00	640.00	610.00	439.11	18500.00	460.17	2359.17	662.09	140.37	409.42	610.00	12.16
250.80	25.00	600.00	600.00	439.00	18500.00	454.24	1255.44	460.76	140.00	0.00	0.00	14.92
250.80	25.00	600.00	600.00	439.00	18500.00	460.26	2121.12	462.24	140.00	500.00	600.00	11.26
251.20	40.00	600.00	640.00	439.00	18500.00	459.54	2347.07	461.16	309.45	0.00	0.00	10.51
251.20	40.00	600.00	640.00	439.00	18500.00	460.44	2122.67	462.49	140.00	500.00	600.00	10.53
251.45	25.00	655.00	610.00	439.20	18500.00	459.45	1402.79	461.70	314.57	0.00	0.00	10.77
251.45	25.00	655.00	610.00	439.20	18500.00	461.02	3133.88	462.40	140.34	300.79	530.14	11.06
251.70	25.00	655.00	610.00	439.20	18500.00	459.07	3133.31	461.39	317.53	0.00	0.00	10.64
251.70	25.00	655.00	610.00	439.20	18500.00	461.16	3174.91	462.49	142.10	388.43	530.90	10.05

SECTION NUMBER	CHANNEL LENGTH	MIN FL OF ROADWAY	MAX EL OF LN CHORD	HTN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	FG	TAPPID	STFEL	STENG	VFM
340.00	500.00	495.00	542.00	447.40	14400.00	668.83	8575.94	668.89	1394.32	0.00	0.00	2.70
340.00	500.00	495.00	542.00	447.40	14800.00	668.83	8912.57	670.00	811.65	342.79	1154.45	2.71
340.55	55.00	495.00	542.00	608.10	16200.00	668.84	7415.75	668.91	1279.92	0.00	0.00	3.01
340.55	55.00	495.00	542.00	608.10	16200.00	668.84	7826.10	670.03	748.60	151.36	1140.16	3.00
340.80	25.00	495.00	542.00	608.00	14800.00	668.85	6249.14	668.93	1241.24	0.00	0.00	3.14
340.80	25.00	495.00	542.00	608.00	14800.00	668.85	7326.13	670.04	779.37	354.75	1134.15	3.12
341.05	25.00	530.00	535.00	608.00	14800.00	668.87	9680.64	668.94	1054.24	0.00	0.00	2.60
341.05	25.00	530.00	535.00	608.00	16800.00	669.97	9836.81	670.05	648.20	530.00	1178.20	2.66
341.45	40.00	530.00	635.00	608.50	14800.00	671.67	13934.58	671.71	1197.69	0.00	0.00	1.74
341.45	40.00	530.00	635.00	608.50	14800.00	672.57	14447.00	672.71	752.49	530.00	1242.40	1.68
341.70	25.00	460.00	535.00	608.70	14800.00	671.68	14771.29	671.71	1347.67	0.00	0.00	1.65
341.70	25.00	460.00	535.00	608.70	14800.00	672.68	15545.64	672.72	948.24	365.58	1273.85	1.61
341.95	25.00	460.00	535.00	608.70	14800.00	671.68	14779.02	671.71	1347.74	0.00	0.00	1.65
341.95	25.00	460.00	535.00	608.70	14800.00	672.68	15552.35	672.72	948.45	365.50	1273.94	1.61
342.30	35.00	460.00	535.00	608.70	14800.00	671.68	14779.20	671.72	1347.63	0.00	0.00	1.75
342.30	35.00	460.00	535.00	608.70	16800.00	672.68	15544.71	672.72	948.64	365.03	1274.07	1.91
347.10	500.00	460.00	535.00	608.40	14800.00	671.75	14709.52	671.76	1347.14	0.00	0.00	1.65
347.10	500.00	460.00	535.00	608.40	14800.00	672.75	15446.45	672.78	947.10	364.07	1273.17	1.62
355.50	420.00	565.00	610.00	651.00	14800.00	670.41	1326.15	673.19	372.40	477.72	428.19	15.41
355.50	420.00	565.00	610.00	651.00	14800.00	670.41	1326.15	673.19	372.40	477.72	428.19	15.41
368.35	1275.00	1455.00	1490.00	451.20	14800.00	673.08	27493.44	673.09	2149.51	0.00	0.00	0.64
368.35	1275.00	1455.00	1490.00	451.20	14800.00	675.24	29208.69	675.35	1768.35	294.44	2052.96	0.83
368.50	55.00	1455.00	1490.00	451.25	14800.00	673.94	24541.69	673.99	2142.01	297.23	2047.26	0.82
368.50	55.00	1455.00	1490.00	451.25	14800.00	675.34	26291.51	675.35	1750.06	0.00	0.00	0.86
369.05	25.00	1455.00	1490.00	451.56	14800.00	673.98	24265.18	673.99	2149.18	0.00	0.00	0.69
369.05	25.00	1455.00	1490.00	451.56	14800.00	675.38	27306.42	675.35	1766.54	294.29	2048.23	0.87
369.30	25.00	1100.00	1240.00	452.00	14800.00	673.97	13757.31	673.99	1803.77	0.00	0.00	1.79
369.30	25.00	1100.00	1240.00	452.00	14800.00	675.32	15229.38	675.35	1170.14	534.72	1768.54	1.71
369.70	40.00	1100.00	1240.00	452.20	14800.00	674.22	13842.62	674.24	1607.78	0.00	0.00	1.78
369.70	40.00	1100.00	1240.00	452.20	14800.00	675.22	14805.41	675.25	1170.18	534.29	1769.07	1.76
369.95	25.00	1100.00	1240.00	452.20	14800.00	674.22	13842.62	674.25	1602.42	0.00	0.00	1.78
369.95	25.00	1100.00	1240.00	452.20	14800.00	675.22	14805.41	675.25	1170.48	534.75	1769.25	1.76
370.20	25.00	1100.00	1240.00	452.20	14800.00	674.22	13842.62	674.25	1602.42	0.00	0.00	1.78
370.20	25.00	1100.00	1240.00	452.20	14800.00	675.22	14805.41	675.25	1170.48	534.75	1769.25	1.76
370.50	30.00	1218.00	1256.00	452.10	14800.00	674.24	15443.31	674.26	2445.47	0.00	0.00	1.64
370.50	30.00	1218.00	1256.00	452.10	14800.00	675.24	16175.18	675.26	1509.30	514.04	2113.35	1.53

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CURB	MIN EL OF GROUND	DISCHARGE (CFS)	CASEL	TG	PG	TAPWID	STENCIL	STENCR	VCH
451.25	25.00	741.00	830.00	600.70	14800.00	680.40	7220.52	66.40	954.67	0.00	0.00	3.11
451.25	25.00	741.00	830.00	460.70	14800.00	681.07	7959.79	681.55	641.23	440.17	1101.40	2.94
451.50	25.00	741.00	830.00	660.70	14800.00	680.48	7234.75	680.49	955.06	0.00	0.00	3.11
451.50	25.00	741.00	830.00	660.70	14800.00	681.08	7973.95	681.56	641.71	439.91	1101.62	2.94
452.00	50.00	741.00	830.00	460.70	14800.00	680.43	7242.99	680.51	955.62	0.00	0.00	3.10
452.00	50.00	741.00	830.00	660.70	14800.00	681.50	8001.96	681.58	642.64	439.03	1102.06	2.93
453.00	100.00	741.00	830.00	460.70	14800.00	680.48	7319.31	680.55	957.34	0.00	0.00	3.06
453.00	100.00	741.00	830.00	660.70	14800.00	681.50	8057.84	681.41	640.53	439.03	1102.94	2.91
SECTION NUMBER	DISCHARGE CFS	CASEL	CASEL DIFF EACH	CASEL DIFF EACH SECTION	CASEL	CASEL-MSLK	TOPAID	T.W. DIFF	LENGTH			
129.040	19900.000	642.400	0.000	0.000	0.000	0.000	1015.600	0.000	0.000			
129.060	19900.000	643.400	1.000	0.000	0.000	0.000	685.147	326.653	0.000			
129.540	19900.000	642.530	0.000	0.000	0.000	0.000	974.544	0.000	50.000			
129.540	19900.000	643.400	0.949	0.000	0.000	0.000	676.773	317.732	50.000			
130.040	19900.000	642.500	0.000	0.000	0.000	0.000	934.123	0.000	50.000			
130.040	19900.000	643.505	0.925	0.000	0.000	0.000	583.925	350.198	50.000			
130.540	19900.000	642.584	0.000	0.000	0.000	0.000	698.501	0.000	70.000			
130.540	19900.000	643.444	0.864	0.000	0.000	0.000	576.078	342.513	70.000			
130.610	19900.000	642.509	0.000	0.015	0.000	0.000	673.021	0.000	75.000			
130.610	19900.000	643.434	0.925	0.014	0.000	0.000	500.628	372.402	75.000			
130.840	19900.000	641.621	0.000	-0.974	0.000	0.000	508.202	0.000	75.000			
130.840	19900.000	641.346	-0.275	-2.007	0.000	0.000	243.900	204.301	75.000			
131.240	19900.000	644.044	0.000	3.030	0.000	0.000	644.014	0.000	40.000			
131.240	19900.000	645.060	1.000	4.274	0.000	0.000	406.133	277.661	40.000			
131.500	19900.000	645.221	0.000	0.521	0.000	0.000	523.216	0.000	24.000			
131.500	19900.000	646.125	0.905	0.244	0.000	0.000	373.746	109.450	24.000			
131.750	19900.000	645.247	0.000	0.026	0.000	0.000	571.623	0.000	25.000			
131.750	19900.000	646.148	0.901	0.022	0.000	0.000	372.173	139.670	25.000			
132.040	19900.000	645.275	0.000	0.023	0.000	0.000	518.672	0.000	71.000			
132.040	19900.000	646.171	0.895	0.023	0.000	0.000	344.725	109.103	71.000			
137.000	19900.000	645.309	0.000	0.623	0.000	0.000	526.655	0.000	40.000			
137.000	19900.000	646.209	0.900	0.578	0.000	0.000	350.474	146.161	40.000			
141.700	19900.000	644.301	0.000	0.332	0.000	0.000	1940.000	0.000	479.000			
141.700	19900.000	647.153	0.852	0.204	0.000	0.000	1318.452	641.548	479.000			
146.770	19900.000	646.405	0.000	0.105	0.000	0.000	1455.362	0.000	592.000			
146.770	19900.000	647.252	0.846	0.109	0.000	0.000	1042.544	423.320	592.000			
157.720	19900.000	646.645	0.000	0.280	0.000	0.000	1795.478	0.000	605.000			
157.720	19900.000	647.505	0.859	0.293	0.000	0.000	1211.514	584.643	605.000			
173.620	19900.000	647.531	0.000	0.645	0.000	0.000	1019.617	0.000	1620.000			
173.620	19900.000	648.142	0.612	0.638	0.000	0.000	635.187	344.551	1620.000			
190.270	19900.000	649.200	0.000	1.249	0.000	0.000	1508.445	0.000	1635.000			

190.270	19000.000	609.832	0.000	0.000	0.000	1003.426	0.000	873.000
199.000	19900.000	650.529	0.607	0.609	0.000	1004.948	758.458	873.000
213.000	19500.000	651.346	0.000	1.533	0.000	1602.471	0.000	1000.000
213.000	19500.000	652.077	0.712	1.508	0.000	1001.729	540.702	1000.000
213.300	19500.000	651.411	0.000	0.000	0.000	1695.692	0.000	20.000
213.300	19500.000	652.119	0.708	0.000	0.000	1004.215	540.879	20.000
213.550	19500.000	651.409	0.000	0.037	0.000	1607.356	0.000	25.000
213.550	19500.000	652.150	0.705	0.014	0.000	1007.273	540.005	25.000
213.600	19500.000	651.485	0.000	0.036	0.000	1609.549	0.000	25.000
213.600	19500.000	652.187	0.702	0.034	0.000	1050.212	549.357	25.000
214.200	19500.000	651.900	0.000	0.415	0.000	1636.440	0.000	40.000
214.200	19500.000	652.900	1.000	0.713	0.000	1094.422	542.038	40.000
214.450	19500.000	651.800	0.000	-0.052	0.000	1656.226	0.000	25.000
214.450	19500.000	652.801	0.993	-0.052	0.000	793.081	1045.307	25.000
214.700	19500.000	651.872	0.000	0.024	0.000	1647.376	0.000	25.000
214.700	19500.000	652.862	0.989	0.021	0.000	794.917	1072.419	25.000
215.000	19500.000	651.901	0.000	0.024	0.000	1677.130	0.000	20.000
215.000	19500.000	652.856	0.985	0.024	0.000	796.462	1020.664	20.000
220.000	19500.000	652.338	0.000	0.417	0.000	1816.810	0.000	500.000
220.000	19500.000	653.255	0.917	0.370	0.000	783.560	1033.219	500.000
227.000	19500.000	652.206	0.000	0.444	0.000	1046.403	0.000	700.000
227.000	19500.000	653.704	0.898	0.444	0.000	2101.270	945.535	700.000
239.000	19500.000	653.233	0.000	0.427	0.000	1770.742	0.000	1200.000
239.000	19500.000	654.080	0.807	0.375	0.000	1001.277	569.425	1200.000
247.000	19500.000	653.203	0.000	0.976	0.000	1717.447	0.000	500.000
247.000	19500.000	655.004	0.805	0.926	0.000	1029.175	658.313	600.000
250.000	19500.000	654.411	0.000	2.228	0.000	236.389	0.000	300.000
250.000	19500.000	656.116	-0.313	1.110	0.000	92.411	105.976	300.000
250.300	19500.000	657.912	0.000	1.481	0.000	265.480	0.000	20.000
250.300	19500.000	659.636	1.926	5.718	0.000	132.730	132.740	20.000
250.550	19500.000	658.302	0.000	0.350	0.000	270.743	0.000	25.000
250.550	19500.000	660.145	1.846	0.329	0.000	140.375	120.388	25.000
250.600	19500.000	656.943	0.000	-1.459	0.000	140.300	0.000	25.000
250.600	19500.000	660.259	5.416	0.000	0.000	140.300	0.000	25.000
251.200	19500.000	659.640	0.000	2.797	0.000	309.406	0.000	40.000
251.200	19500.000	660.640	1.000	0.381	0.000	100.001	149.445	40.000
251.450	19500.000	659.206	0.000	0.304	0.000	312.549	0.000	25.000
251.450	19500.000	661.037	1.091	0.307	0.000	100.504	174.225	25.000
251.700	19500.000	660.070	0.000	0.123	0.000	517.210	0.000	25.000
251.700	19500.000	661.140	1.001	0.123	0.000	102.105	175.405	25.000
252.000	19500.000	660.212	0.000	0.103	0.000	321.233	0.000	20.000
252.000	19500.000	661.306	1.000	0.103	0.000	104.308	171.025	20.000
257.000	19500.000	661.907	0.000	1.458	0.000	312.697	0.000	500.000

323.000	16800.000	667.066	0.000	-0.057	0.000	580.108	0.000	240.000
323.000	16900.000	668.026	0.966	-0.056	0.000	361.308	220.000	240.000
330.000	16800.000	667.748	0.000	0.762	0.000	368.079	0.000	700.000
330.000	16800.000	668.656	0.828	0.540	0.000	339.736	229.923	700.000
333.000	16600.000	660.500	0.000	-1.149	0.000	200.308	0.000	300.000
333.000	16500.000	660.308	-0.290	-2.347	0.000	96.119	104.240	300.000
333.300	16800.000	667.875	0.000	1.279	0.000	219.626	0.000	30.000
333.300	16800.000	669.309	1.520	3.000	0.000	117.055	102.569	30.000
333.550	16200.000	646.327	0.000	0.668	0.000	220.450	0.000	25.000
333.550	16600.000	669.806	1.479	0.407	0.000	121.136	99.914	25.000
333.000	16600.000	670.045	0.000	2.156	0.000	248.349	0.000	25.000
333.000	16800.000	671.006	1.570	2.190	0.000	206.027	421.342	25.000
333.000	16800.000	669.433	0.000	-1.032	0.000	124.000	0.000	10.000
333.000	16800.000	671.200	1.857	-0.705	0.000	134.000	-10.000	10.000
334.100	16600.000	669.672	0.000	0.238	0.000	132.545	0.000	20.000
334.100	16600.000	671.476	1.745	0.146	0.000	134.000	-1.495	20.000
334.200	16800.000	667.510	0.000	-2.142	0.000	343.344	0.000	10.000
334.200	16800.000	668.530	1.000	-2.966	0.000	193.753	149.611	10.000
334.450	16800.000	667.554	0.000	0.024	0.000	300.305	0.000	25.000
334.450	16800.000	668.540	0.996	0.010	0.000	190.114	140.231	25.000
334.700	16800.000	667.550	0.000	0.026	0.000	337.555	0.000	25.000
334.700	16800.000	668.551	0.971	0.011	0.000	146.302	151.054	25.000
335.000	16800.000	667.570	0.000	-0.010	0.000	333.215	0.000	40.000
335.000	16800.000	668.561	0.976	-0.010	0.000	149.217	103.906	40.000
340.000	16800.000	669.631	0.000	1.241	0.000	1324.516	0.000	500.000
340.000	16800.000	669.932	1.101	1.392	0.000	611.059	512.059	500.000
340.550	16800.000	666.942	0.000	0.011	0.000	1279.922	0.000	55.000
340.550	16800.000	669.980	1.007	0.007	0.000	786.766	401.126	55.000
340.800	16800.000	668.629	0.000	0.007	0.000	1241.267	0.000	25.000
340.800	16800.000	669.944	1.035	0.005	0.000	779.372	441.055	25.000
341.05	16800.000	668.874	0.000	0.024	0.000	1054.202	0.000	25.000
341.050	16800.000	669.946	1.035	0.024	0.000	446.203	416.019	25.000
341.450	16800.000	671.670	0.000	2.796	0.000	1197.695	0.000	40.000
341.450	16800.000	672.670	1.000	2.792	0.000	752.468	405.207	40.000
341.700	16800.000	671.670	0.000	0.010	0.000	1347.674	0.000	25.000
341.700	16800.000	672.672	1.002	0.012	0.000	908.245	459.409	25.000
341.950	16800.000	671.674	0.000	0.003	0.000	1347.741	0.000	25.000
341.950	16800.000	672.675	1.001	0.003	0.000	908.452	459.259	25.000
342.300	16800.000	671.678	0.000	0.005	0.000	1347.629	0.000	25.000
342.300	16800.000	672.679	1.001	0.009	0.000	908.600	459.189	25.000
347.300	16800.000	671.753	0.000	0.045	0.000	1367.172	0.000	500.000
347.300	16800.000	672.747	0.995	0.053	0.000	917.101	440.035	500.000
353.500	16800.000	670.993	0.000	-0.743	0.000	372.507	0.000	800.000

360.250	1400.000	673.970	0.000	2.987	0.000	240.507	0.000	1275.000
360.250	1400.000	675.539	1.340	4.733	0.000	1756.353	0.000	1275.000
368.000	1480.000	673.981	0.000	0.002	0.000	2142.011	0.000	55.000
368.200	1480.000	675.501	1.359	0.002	0.000	1740.056	0.000	55.000
369.000	1460.000	673.982	0.000	0.001	0.000	2159.177	0.000	25.000
369.000	1460.000	675.502	1.359	0.001	0.000	1746.504	0.000	25.000
369.300	1480.000	673.947	0.000	-0.015	0.000	1603.773	0.000	25.000
369.300	1480.000	675.325	1.358	-0.017	0.000	1170.116	0.000	25.000
369.700	1460.000	674.220	0.000	0.253	0.000	1607.760	0.000	40.000
369.700	1460.000	675.220	1.000	-0.105	0.000	1170.175	0.000	40.000
369.950	1480.000	674.224	0.000	0.004	0.000	1608.109	0.000	25.000
369.950	1480.000	675.223	1.000	0.003	0.000	1170.310	0.000	25.000
370.200	1460.000	674.227	0.000	0.004	0.000	1606.476	0.000	25.000
370.200	1460.000	675.227	0.999	0.003	0.000	1170.477	0.000	25.000
370.500	1460.000	674.240	0.000	0.012	0.000	2285.448	0.000	70.000
370.500	1460.000	675.241	1.001	0.014	0.000	1509.363	0.000	70.000
385.000	1450.000	674.375	0.000	0.175	0.000	2222.900	0.000	1250.000
385.000	1450.000	675.354	0.978	0.113	0.000	1614.620	0.000	1250.000
390.000	1450.000	674.508	0.000	0.133	0.000	1350.927	0.000	1100.000
390.000	1450.000	675.485	0.987	0.111	0.000	1021.705	0.000	1100.000
400.000	1450.000	674.507	0.000	0.158	0.000	1920.071	0.000	1200.000
400.000	1450.000	675.622	0.982	0.173	0.000	1396.952	0.000	1200.000
419.100	1460.000	674.928	0.000	0.232	0.000	986.986	0.000	1310.000
419.100	1460.000	675.509	0.881	0.171	0.000	617.420	0.000	1310.000
422.300	1450.000	674.976	0.000	-0.251	0.000	576.377	0.000	300.000
422.300	1450.000	675.022	0.005	-0.727	0.000	311.709	0.000	300.000
422.500	1460.000	675.083	0.000	0.406	0.000	633.000	0.000	50.000
422.500	1460.000	675.731	0.647	0.609	0.000	379.263	0.000	50.000
423.050	1480.000	675.250	0.000	0.147	0.000	559.408	0.000	25.000
423.050	1480.000	675.963	0.712	0.232	0.000	395.527	0.000	25.000
423.300	1460.000	675.893	0.000	0.643	0.000	892.006	0.000	25.000
423.300	1460.000	675.984	1.051	0.981	0.000	733.655	0.000	25.000
423.700	1480.000	676.960	0.000	1.647	0.000	948.089	0.000	40.000
423.700	1480.000	677.960	1.000	1.016	0.000	614.527	0.000	40.000
423.950	1450.000	676.102	0.000	0.858	0.000	446.381	0.000	25.000
423.950	1450.000	676.929	0.626	-1.071	0.000	204.750	0.000	25.000
424.200	1460.000	676.246	0.000	0.144	0.000	473.718	0.000	25.000
424.200	1460.000	677.101	0.635	0.173	0.000	209.125	0.000	25.000
424.700	1480.000	676.554	0.000	0.248	0.000	521.672	0.000	50.000
424.700	1480.000	677.396	0.843	0.205	0.000	216.912	0.000	50.000
435.500	1480.000	677.909	0.000	1.405	0.000	1044.615	0.000	1000.000
435.500	1480.000	678.930	0.931	1.534	0.000	735.443	0.000	1000.000
449.500	1480.000	678.459	0.000	0.440	0.000	742.458	0.000	1400.000

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DISE						
450.000	14800.000	678.567	0.000	0.123	0.000	730.247	0.000	50.000		
450.000	14800.000	679.024	0.516	0.000	0.000	424.045	311.402	50.000		
450.250	14800.000	678.556	0.000	0.069	0.000	733.680	0.000	25.000		
450.250	14800.000	679.023	0.927	0.058	0.000	422.650	311.010	25.000		
450.500	14800.000	678.351	0.000	1.100	0.000	540.550	0.010	25.000		
450.500	14800.000	679.208	0.653	0.278	0.000	236.740	323.603	25.000		
451.000	14800.000	680.056	0.000	1.659	0.000	777.800	0.000	50.000		
451.000	14800.000	681.050	1.000	1.506	0.000	242.401	455.402	50.000		
451.250	14800.000	680.402	0.000	0.352	0.000	954.670	0.000	25.000		
451.250	14800.000	681.474	1.073	0.321	0.000	561.229	293.441	25.000		
451.500	14800.000	680.412	0.000	0.011	0.000	953.055	0.000	25.000		
451.500	14800.000	681.445	1.071	0.000	0.000	561.707	293.309	25.000		
452.000	14800.000	680.474	0.000	2.021	0.000	955.821	0.000	50.000		
452.000	14800.000	681.507	1.047	0.019	0.000	662.638	293.193	50.000		
453.000	14800.000	680.475	0.000	0.002	0.000	957.313	0.000	100.000		
453.000	14800.000	681.510	1.050	0.015	0.000	644.526	292.617	100.000		

DATA FOR LAST CROSS SECTION

1 0.000 0.000 1027.088 0.000
 2 4.000 0.142 677.779 244.300

RGRANT1 JOB RTI.A25.P03078.MAK.M=1.T=2.P=100.PRTY=1

//+PROCLIB=RTI.MG.PROCLIB

// EXEC HEC2

//SYSIN DD *

T1 ROWAN CO. BASIN E STRAM 1 GRANTS CREEK PROFILE ONE 500 YEAR ONLY
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	-1	2		0.002		-1		626.2		
J2	-1		-1							
J3	38	39	40	41	43	42	1	2	26	53
J3	54	25	50							
NC	0.090	0.090	0.055	0.1	0.3					
GT	1	30600								
ET	5	0	0	0	0	-10.4				
X1	5800	25	350	406	5800	5800	5800			
GR	648.7	0	646.3	42	634.5	115	634.7	180	630.4	195
GR	628.4	219	627.8	252	625.9	265	626.6	350	620.5	356
GR	620.5	400	627.2	406	626.2	442	627.5	509	626.3	570
GR	627.5	585	627.2	640	626.2	650	625.2	835	623.7	1100
GR	624.2	1130	624.2	1250	626.3	1400	627.7	1500	634.7	1585
NC	0.090	0.090	0.055	0.1	0.3					
X1	8760	24	594	653	2910	2910	2910			
GR	540.9	50	639.6	105	635.2	120	634.4	150	631.9	235
GR	630.1	240	630.1	330	629.5	400	631.6	508	630.5	555
GR	631.5	594	623.5	600	623.0	637	631.2	653	632.5	669
GR	631.2	695	631.6	845	630.3	1105	629.4	1323	628.3	1352
GR	630.4	1375	629.1	1555	635.8	1675	647.8	1736		
X1	8845	13	543	673	85	85	85			
GR	644.8	0	633.3	224	631.5	245	631.7	422	633.0	543
GR	630.2	543	623.9	570	623.9	645	630.2	673	633.0	673
GR	632.2	871	639.7	1063	647.7	1220				
SE	1.25	1.5	2.5	0	130	6.2	607			
X1	8876	0	0	0	31	31	31			
X2			1	630.2						
BT	9	0	644.8	0	224	633.3	0	245	631.5	0
BT	422	631.7	0	543	633.0	630.2	673	633.0	630.2	671
BT	632.2	0	1063	639.7	0	1220	647.7	0		
NC	0.080	0.080	0.055	0.1	0.3					
X1	8960	18	703	750	84	84	84			
GR	644.2	0	633.6	155	627.3	327	626.7	460	627.8	495
GR	627.1	555	627.9	595	627.6	612	630.1	652	629.9	692
GR	628.1	703	624.2	706	624.5	745	629.8	750	630.8	770
GR	630.1	780	630.8	809	631.8	815				
NC	0.090	0.090	0.055	0.1	0.3					
X1	10400	23	1080	1135	1440	1440	1440			
GR	643.7	0	641.2	117	642.0	139	630.2	400	629.3	480
GR	629.3	530	628.6	573	631.3	710	631.5	840	630.3	937
GR	620.6	955	627.9	985	630.4	1062	629.9	1080	622.0	1086
GR	624.4	1130	630.3	1135	628.5	1160	629.3	1260	631.0	1310
GR	630.7	1360	634.8	1441	639.8	1500				


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RGRNTX3 JOB RTI.A25.P03078.MAK.M=1.T=2.P=100.PRTY=2
//*PROCLIB=RTI.MG.PROCLIB
// EXEC HEC2
//SYSIN DD *
T1 ROWAN CO. BASIN E STREAM 1 GRANTS CREEK PROFILE ONE 500 YEAR ONLY
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 500 YEAR FLOOD WATER SURFACE PROFILE
J1 -1 2 0.003 -1 626.2
J2 -1 -1
J3 38 39 40 41 43 42 1 2 26 53
J3 54 25 50
NC 0.090 0.090 0.055 0.1 0.3
QT 1 30600
ET 5 0 0 0 -10.4
X1 40.00 15 500 556 4000 4000 4000 4000
GR 640 0 630 140 620 420 624.5 500 618 506
GR 618 550 624.7 556 620 566 620 646 630 706
GR 630 766 615 1115 620 2065 630 2175 640 2245
X1 50.00 12 350 406 1000 1000 1000
GR 640 0 630 120 620 340 624.5 350 619 356
GR 619 400 625.7 406 620 506 619 1256 620 2000
GR 630 2300 640 2600
X1 5800 25 350 406 800 800 800
GR 648.7 0 646.3 42 634.5 115 634.7 180 630.4 195
GR 628.4 219 627.8 252 625.9 265 626.6 350 620.5 356
GR 620.5 400 627.2 406 626.2 442 627.5 509 626.3 570
GR 627.5 580 627.2 640 626.2 650 625.2 835 623.7 1100
GR 624.2 1130 624.2 1250 626.3 1400 627.7 1500 634.7 1585
NC 0.090 0.090 0.055 0.1 0.3
X1 72.55 0 0 0 1455 1455 1455 1.25
X1 8760 24 594 653 1455 1455 1455
GR 640.9 50 639.6 105 635.2 120 634.4 150 631.9 235
GR 630.1 240 630.1 330 629.5 400 631.6 508 630.5 355
GR 631.5 594 623.5 600 623.0 637 631.2 653 632.5 669
GR 631.2 695 631.6 845 630.3 1105 629.4 1323 625.3 1352
GR 630.4 1375 629.1 1555 635.8 1675 647.8 1736
X1 8845 13 543 673 85 85 85
GR 644.8 0 633.3 224 631.5 245 631.7 422 633.0 543
GR 630.2 543 625.9 570 623.9 645 630.2 673 633.0 673
GR 632.2 871 639.7 1063 647.7 1220
SR 1.25 1.5 2.5 0 130 6.2 607
X1 8876 0 0 0 31 31 31
X2 1 630.2
RT 9 0 644.8 0 224 633.3 0 245 631.5 0
RT 422 631.7 0 543 633.0 630.2 673 633.0 630.2 871
RT 632.2 0 1063 639.7 0 1220 647.7 0
NC 0.090 0.090 0.055 0.1 0.3
X1 8960 14 703 750 84 84 84
GR 644.2 0 633.6 155 627.3 327 626.7 460 627.8 495
GR 627.1 555 627.9 595 627.6 612 630.1 652 629.9 692

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GR 628.1	703	624.2	706	624.5	745	629.8	750	630.8	770
GR 630.1	780	630.8	809	631.8	815				
NC 0.090	0.090	0.055	0.1	0.3					
X1 10400	23	1080	1135	1440	1440	1440			
GR 643.7	0	641.2	117	642.0	139	630.2	400	629.3	480
GR 629.3	532	628.6	573	631.3	710	631.5	840	630.3	937
GR 628.6	955	627.9	985	630.4	1052	629.9	1080	622.0	1086
GR 624.4	1130	630.3	1135	628.5	1160	629.3	1260	631.0	1310
GR 630.7	1368	634.8	1441	639.8	1500				
NC 0.090	0.090	0.055	0.1	0.3					
X1 11950	16	1059	1105	1550	1550	1550			
GR 651.3	0	645.2	150	641.1	235	633.7	369	634.5	379
GR 633.0	950	634.9	1048	634.0	1059	625.2	1060	626.5	1090
GR 634.6	1105	637.0	1175	638.9	1190	642.1	1240	643.3	1345
GR 648.1	1473								
NC 0.080	0.080	0.055	0.1	0.3					
X1 13400	12	720	775	1450	1450	1450		-2.194	
GR 649	0	633	600	634	720	632.3	725	632.1	730
GR 624.8	752	625.7	770	634	775	638.8	802	636	815
GR 635.6	900	649	1600						
X1 13450	0	0	0	50	50	50	1	.5	
X1 13500	0	0	0	50	50	50	1	.5	
X1 13530	0	0	0	30	30	30	1	.4	
X1 13555	0	0	0	25	25	25	1	.3	
X1 13580	12	720	800	25	25	25		-2.194	
GR 650	0	644.5	350	636	720	634.2	720	633.5	740
GR 627	760	627.0	790	628.5	800	636	800	638	900
GR 644.5	1050	650	1400						
SB 1.05	1.4	2.5	0	40	2	734	1.7		
X1 13620	0	0	0	40	40	40	1	.4	
X2		1	639.1	640.6					
BT 6	0	647.8	0	600	638.4	0	720	639.4	636.9
BT 800	639.4	636.3	900	639.9	0	1400	647.8	0	
X1 13644	14	400	450	24	24	24		-2.194	
GR 649.4	0	632.8	200	632.0	250	631.4	253	632.0	285
GR 633.0	290	634.3	400	627.4	415	627.0	445	634.5	450
GR 637.8	470	634.4	485	633.6	500	649.4	600		
X1 13669	0	0	0	25	25	25	1	.1	
X1 13700	0	0	0	31	31	31	1	.2	
X1 14194	0	0	0	494	494	494	1	.1	
X1 14740	10	1465	1562	506	506	506		-2.194	
GP 646	0	640	310	638.6	600	634.2	700	635	900
GP 633.7	1100	634.8	1300	635	1400	637.8	1465	636	1490
GR 628	1500	627.8	1520	625.3	1540	636	1550	637.8	1562
GR 635.6	1600	640	1900	646	1980				
X1 15400	21	1285	1358	700	700	700		-2.194	
GP 650	0	640	300	637.5	950	636.5	953	636.2	965
GR 638.2	1000	636.7	1172	635.6	1185	636.7	1200	636.7	1215
GR 634	1230	634.9	1260	639.7	1285	637.6	1305	629.1	1310
GR 629.4	1325	629	1345	630	1358	636.8	1400	635.4	1500

GR 650 1625
EJ

ER

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

C
 1 ROWAN COUNTY BASIN 0 STRM 3
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IOIR STAT METRIC HVINS Q WSEL EQ
 -1. 2. 0. 0. 0.007000 0.0 0.0 0. 702.100 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIN ITRACE
 0.0 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	550.000	1025.000	1260.000	1825.000	1260.000	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	810.000	13.000	1300.000	1318.000	810.000	810.000	810.000	0.0	0.0	0.0
GR	719.000	1000.000	713.700	1100.000	706.500	1200.000	701.100	1300.000	697.400	1305.000
GR	697.100	1307.000	697.400	1310.000	701.300	1318.000	700.500	1500.000	700.800	1600.000
GR	704.200	1700.000	707.500	1800.000	719.000	2200.000	0.0	0.0	0.0	0.0
QT	5.000	435.000	820.000	1020.000	1500.000	1020.000	0.0	0.0	0.0	0.0
X1	3900.000	12.000	1250.000	1259.000	3090.000	3090.000	3090.000	0.0	0.0	0.0
GR	731.300	1000.000	725.200	1100.000	716.800	1124.000	715.900	1200.000	716.500	1250.000
GR	715.500	1255.000	715.100	1256.000	715.500	1257.000	716.700	1259.000	717.400	1300.000
GR	718.900	1319.000	731.300	1382.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	394.000	740.000	918.000	1355.000	918.000	0.0	0.0	0.0	0.0
X1	6000.000	10.000	1302.000	1314.000	2100.000	2100.000	2100.000	0.0	-3.200	0.0
GR	743.300	1000.000	738.300	1100.000	733.000	1200.000	730.800	1300.000	731.100	1302.000
GR	727.600	1307.000	727.300	1309.000	727.500	1310.000	731.300	1314.000	743.300	1358.000
X1	6050.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.00	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	6100.000	21.000	1294.500	1299.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	744.100	1000.000	736.700	1080.000	731.400	1188.000	729.200	1288.000	728.200	1294.500
GR	726.700	1295.000	725.900	1296.000	725.700	1297.000	725.900	1298.000	726.700	1299.000
GR	728.200	1299.500	729.700	1302.000	733.000	1317.000	732.600	1400.000	732.700	1500.000
GR	731.600	1600.000	731.000	1700.000	731.300	1800.000	734.600	1900.000	738.100	2000.000
GR	744.100	2100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.600	0.0	0.0	0.0
X1	6137.000	0.0	0.0	0.0	37.000	37.000	37.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	730.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	19.000	1000.000	244.160	0.0	1100.000	738.800	0.0	1200.000	734.700	0.0
BT	1294.500	733.000	728.200	1295.000	733.000	729.700	1296.000	733.000	730.500	1297.000
BT	733.000	730.700	1298.000	733.000	730.500	1299.000	733.000	729.700	1299.500	733.000
BT	728.200	1300.000	237.000	0.0	1400.000	732.600	0.0	1500.000	738.200	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 ROWAN COUNTY BASIN D STRM 3
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.007000	0.0	0.0	0.	703.100	0.0

J2	NPLOF	IPLOT	PREVS	XSECV	XSECH	FN	AL'DC	IBW	CHNIM	ITRAGE
	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	DLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	STTA
SLOPE	XLOBL	XLCH	XLOBW	ITRIAL	IDC	ICONT	COMAR	TOPWID	ENDST

810.00	5.05	702.15	0.0	703.10	702.26	0.12	0.0	0.0	701.10
1025.	10.	267.	747.	10.	61.	404.	0.	0.	751.30
0.0	1.01	0.15	1.25	0.000	0.060	0.000	0.0	697.15	1280.57
0.007007	810.	810.	810.	0	0	6	0.0	359.11	1829.66

3900.00	3.57	718.67	0.0	0.0	718.74	0.07	16.47	0.00	716.50
820.	630.	75.	116.	304.	25.	76.	31.	20.	716.70
0.41	2.07	2.97	1.51	0.000	0.060	0.000	0.060	715.10	1110.66
0.003965	3090.	3090.	3090.	6	0	1	0.0	197.39	1316.05

6000.00	6.21	730.31	0.0	0.0	730.58	0.27	11.78	0.06	727.90
740.	407.	316.	16.	169.	55.	9.	47.	28.	728.10
0.57	2.42	5.70	1.84	0.000	0.060	0.000	0.060	724.10	1190.39
0.008982	2100.	2100.	2100.	3	0	1	0.0	131.71	1322.10

6050.00	5.87	730.77	0.0	0.0	731.21	0.44	0.58	0.05	728.70
740.	362.	365.	14.	132.	51.	6.	47.	28.	728.90
0.57	2.74	7.09	2.15	0.000	0.060	0.000	0.060	724.90	1196.74
0.015371	50.	50.	50.	2	0	1	0.0	124.12	1320.67

CCHV= 0.100 CEHV= 0.300

7105 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

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

J1	ICHECK	ING	NINW	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.007000	0.0	0.0	0.	705.100	0.0
J2	NPROF	IPL0T	PREVS	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

CEHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	KNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XL0B1	XLCH	XL0B2	TRIAL	IDC	YCONT	CORAR	TOPWID	ENDST

810.00	5.25	702.35	0.0	705.10	702.48	0.12	0.0	0.0	701.10
1260.	17.	294.	950.	15.	65.	470.	0.	0.	701.30
0.0	1.13	4.52	2.02	0.080	0.060	0.080	0.0	697.10	1276.78
0.006969	810.	810.	810.	0	0	5	0.0	368.91	1645.70

3900.00	3.86	718.96	0.0	0.0	719.04	0.08	16.56	0.00	716.56
1020.	773.	89.	158.	343.	28.	94.	36.	20.	726.70
0.38	2.25	3.20	1.69	0.080	0.060	0.080	0.060	715.10	1117.83
0.004039	3090.	3090.	3090.	6	0	1	0.0	201.48	1319.31

6000.00	6.53	730.63	0.0	0.0	730.90	0.27	11.80	0.06	727.90
918.	546.	349.	23.	205.	59.	12.	54.	28.	728.10
0.53	2.66	5.39	1.99	0.080	0.060	0.080	0.060	724.10	1184.39
0.008775	2100.	2100.	2100.	3	0	1	0.0	133.88	1323.27

6050.00	6.17	731.07	0.0	0.0	731.50	0.43	0.56	0.05	728.70
918.	501.	397.	20.	165.	55.	9.	54.	29.	728.90
0.54	3.04	7.21	2.31	0.080	0.060	0.080	0.060	724.90	1191.00
0.014507	50.	50.	50.	2	0	1	0.0	130.99	1321.98

CEHV= 0.100 CEHV= 0.300

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,38
 MODIFICATIONS 52,53,54,55,56,57,58

T1 ROWAN COUNTY BASIN 0 STRM 3
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK IN9 NINV ICIR STRT MEYRIC HVINS Q WSEL FQ
 -10. 5. 0. 0. 0.007000 0.0 0.0 0. 706.100 0.0

J2 NPROF IPLOT PREVS XSECV XSECH EN 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	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	GCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	MTN	ELMIN	SSTA
SLOPE	XLOBL	XLCR	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

810.00	5.68	702.78	0.0	706.10	702.92	0.14	0.0	0.0	701.10
1825.	36.	352.	1437.	26.	73.	613.	0.	0.	701.30
0.0	1.37	4.84	2.35	0.080	0.060	0.080	0.0	697.10	1268.71
0.006913	810.	810.	810.	0	0	5	0.0	889.31	1658.21

3900.00	4.46	719.56	0.0	0.0	719.67	0.11	16.75	0.00	716.50
1500.	1108.	122.	270.	423.	33.	131.	46.	21.	716.70
0.33	2.62	3.67	2.06	0.080	0.060	0.080	0.060	715.10	1116.10
0.004177	3090.	3090.	3090.	0	0	1	0.0	206.27	1322.38

6000.00	7.19	731.29	0.0	0.0	731.58	0.29	11.85	0.05	727.90
1355.	891.	422.	42.	288.	67.	19.	69.	30.	728.10
0.47	3.10	6.27	2.27	0.080	0.060	0.080	0.060	724.10	1171.82
0.008401	2100.	2100.	2100.	0	0	1	0.0	153.89	1325.71

6050.00	6.82	731.72	0.0	0.0	732.14	0.42	0.52	0.04	728.70
1355.	848.	469.	38.	240.	63.	15.	70.	30.	728.90
0.48	3.53	7.47	2.61	0.080	0.060	0.080	0.060	724.90	1178.87
0.013068	50.	50.	50.	2	0	1	0.0	145.47	1324.34

CCHV= 0.100 CEHV= 0.300

3265 DIVIDED FLOW

6100.00	6.45	732.15	0.0	0.0	732.32	0.17	0.15	0.03	728.20
1355.	723.	152.	479.	213.	29.	233.	70.	30.	728.20
0.48	3.39	5.23	2.06	0.025	0.025	0.025	0.060	725.70	1173.75

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	TO	EG	TOPWID	STENCL	STENGR	VGH
810.00	810.00	0.0	0.0	697.10	550.00	701.65	65.71	701.76	335.36	0.0	0.0	3.92
810.00	810.00	0.0	0.0	697.10	1025.00	702.15	122.45	702.26	359.11	0.0	0.0	4.36
810.00	810.00	0.0	0.0	697.10	1260.00	702.35	150.94	702.47	368.91	0.0	0.0	4.52
810.00	810.00	0.0	0.0	697.10	1825.00	702.78	219.49	702.92	389.31	0.0	0.0	4.84
3900.00	3090.00	0.0	0.0	715.10	435.00	717.96	70.15	718.01	186.59	0.0	0.0	2.42
3900.00	3090.00	0.0	0.0	715.10	820.00	718.67	130.23	718.74	197.39	0.0	0.0	2.97
3750	3900.00	0.0	0.0	715.10	1020.00	718.96	160.50	719.04	201.48	0.0	0.0	3.20
3900.00	3090.00	0.0	0.0	715.10	1500.00	719.56	232.10	719.67	206.27	0.0	0.0	3.67
6000.00	2100.00	0.0	0.0	724.10	394.00	729.52	40.90	729.78	106.26	0.0	0.0	5.11
6000.00	2100.00	0.0	0.0	724.10	740.00	730.31	78.08	730.58	131.71	0.0	0.0	5.70
6000.00	2100.00	0.0	0.0	724.10	918.00	730.63	98.00	730.90	138.88	0.0	0.0	5.89
6000.00	2100.00	0.0	0.0	724.10	1355.00	731.29	147.84	731.58	153.89	0.0	0.0	6.27
6050.00	50.00	0.0	0.0	724.90	394.00	729.99	31.22	730.43	90.48	0.0	0.0	6.31
6050.00	50.00	0.0	0.0	724.90	740.00	730.77	59.69	731.21	124.12	0.0	0.0	7.09
6050.00	50.00	0.0	0.0	724.90	918.00	731.07	76.22	731.50	130.99	0.0	0.0	7.21
6050.00	50.00	0.0	0.0	724.90	1355.00	731.72	118.53	732.14	145.47	0.0	0.0	7.47
6100.00	50.00	0.0	0.0	725.70	394.00	730.57	58.68	731.09	80.15	0.0	0.0	7.80
6100.00	50.00	0.0	0.0	725.70	740.00	731.25	118.50	731.71	241.81	0.0	0.0	8.01
6100.00	50.00	0.0	0.0	725.70	918.00	731.48	156.72	731.87	308.32	0.0	0.0	7.74
6100.00	50.00	0.0	0.0	725.70	1355.00	732.15	371.71	732.32	415.78	0.0	0.0	5.23
6137.00	37.00	731.00	730.70	725.70	394.00	731.81	246.28	731.84	366.13	0.0	0.0	2.20
6137.00	37.00	731.00	730.70	725.70	740.00	732.25	412.58	732.29	429.59	0.0	0.0	2.60
6137.00	37.00	731.00	730.70	725.70	918.00	732.43	497.32	732.48	455.76	0.0	0.0	2.73
6137.00	37.00	731.00	730.70	725.70	1355.00	732.79	701.97	732.85	640.34	0.0	0.0	2.97
6187.00	50.00	0.0	0.0	726.50	394.00	731.54	29.91	732.02	38.04	0.0	0.0	6.53
6187.00	50.00	0.0	0.0	726.50	740.00	732.17	50.07	732.79	118.69	0.0	0.0	8.18
6187.00	50.00	0.0	0.0	726.50	918.00	732.41	61.61	733.05	124.97	0.0	0.0	8.57
6187.00	50.00	0.0	0.0	726.50	1355.00	732.82	84.79	733.59	134.23	0.0	0.0	9.76
6237.00	50.00	0.0	0.0	727.30	394.00	732.41	31.78	732.84	91.49	0.0	0.0	6.23
6237.00	50.00	0.0	0.0	727.30	740.00	733.27	64.24	733.65	126.11	0.0	0.0	6.68
6237.00	50.00	0.0	0.0	727.30	918.00	733.53	78.75	733.93	131.96	0.0	0.0	7.02
6237.00	50.00	0.0	0.0	727.30	1355.00	734.09	116.90	734.52	144.97	0.0	0.0	7.55
9200.00	2963.00	0.0	0.0	758.20	92.00	761.06	18.01	761.11	71.21	0.0	0.0	2.21
9200.00	2963.00	0.0	0.0	758.20	196.00	761.63	32.01	761.71	95.58	0.0	0.0	3.04
9200.00	2963.00	0.0	0.0	758.20	260.00	761.95	42.28	762.03	108.92	0.0	0.0	3.26
9200.00	2963.00	0.0	0.0	758.20	430.00	762.52	66.52	762.62	133.32	0.0	0.0	3.80

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH @	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	L.W. DIFF	LENGTH
810.000	550.000	701.652	0.0	0.0	0.0	335.358	0.0	810.000
810.000	1025.000	702.148	0.496	0.0	0.0	359.115	-23.756	810.000
810.000	1260.000	702.353	0.205	0.0	0.0	368.911	-33.553	810.000
810.000	1825.000	702.779	0.426	0.0	0.0	389.306	-53.948	810.000

3900.000	435.000	717.964	0.0	16.512	0.0	186.593	0.0	3090.000
3900.000	820.000	718.674	0.709	16.526	0.0	197.389	-10.796	3090.000
3900.000	1020.000	718.959	0.286	16.606	0.0	201.481	-14.889	3090.000
3900.000	1500.000	719.564	0.604	16.785	0.0	206.275	-19.682	3090.000
6000.000	394.000	729.516	0.0	11.551	0.0	106.262	0.0	2100.000
6000.000	740.000	730.312	0.796	11.630	0.0	131.709	-25.447	2100.000
6000.000	918.000	730.628	0.316	11.669	0.0	138.877	-32.615	2100.000
6000.000	1355.000	731.293	0.665	11.729	0.0	153.893	-47.631	2100.000
6050.000	394.000	729.987	0.0	0.472	0.0	90.480	0.0	50.000
6050.000	740.000	730.766	0.778	0.454	0.0	124.124	-33.644	50.000
6050.000	918.000	731.073	0.308	0.445	0.0	130.989	-40.509	50.000
6050.000	1355.000	731.717	0.644	0.424	0.0	145.474	-54.994	50.000
6100.000	394.000	730.567	0.0	0.580	0.0	80.149	0.0	50.000
6100.000	740.000	731.254	0.687	0.489	0.0	241.812	-161.663	50.000
6100.000	918.000	731.476	0.222	0.483	0.0	308.316	-228.167	50.000
6100.000	1355.000	732.153	0.677	0.436	0.0	415.781	-335.632	50.000
6137.000	394.000	731.811	0.0	1.284	0.0	366.125	0.0	37.000
6137.000	740.000	732.250	0.439	0.996	0.0	429.593	-63.468	37.000
6137.000	918.000	732.430	0.161	0.954	0.0	455.759	-89.634	37.000
6137.000	1355.000	732.795	0.364	0.642	0.0	640.340	-274.215	37.000
6187.000	394.000	731.539	0.0	-0.272	0.0	88.040	0.0	50.000
6187.000	740.000	732.168	0.629	-0.082	0.0	118.688	-30.649	50.000
6187.000	918.000	732.410	0.242	-0.021	0.0	124.972	-36.933	50.000
6187.000	1355.000	732.821	0.411	0.026	0.0	134.227	-46.187	50.000
6237.000	394.000	732.412	0.0	0.873	0.0	91.487	0.0	50.000
6237.000	740.000	733.269	0.857	1.101	0.0	126.110	-34.623	50.000
6237.000	918.000	733.525	0.256	1.116	0.0	131.969	-40.477	50.000
6237.000	1355.000	734.091	0.565	1.270	0.0	144.973	-53.486	50.000
9200.000	92.000	761.059	0.0	28.647	0.0	71.212	0.0	2963.000
9200.000	196.000	761.627	0.568	28.358	0.0	95.577	-24.365	2963.000
9200.000	260.000	761.949	0.322	28.424	0.0	108.916	-37.705	2963.000
9200.000	430.000	762.517	0.568	28.427	0.0	183.328	-62.112	2963.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	31.869	0.0
2	0.0	0.0	36.308	4.438
3	0.0	0.0	37.840	5.370
4	0.0	0.0	40.818	8.949