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

C
 T1 DAVIDSON COUNTY BASIN E STRM 7
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES H-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.006000	0.0	0.0	0.	627.200	0.0
J2	NPROF	IPLT	PREVS	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									
	30.000	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	201.000	150.000	0.0	0.0	0.0	0.0
YC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	329.000	627.000	764.000	1173.000	784.000	0.0	0.0	0.0	0.0
X1	400.000	14.000	1100.000	1119.000	400.000	400.000	400.000	0.0	0.0	0.0
GR	639.100	1000.000	626.400	1043.000	625.700	1100.000	623.700	1106.000	622.200	1110.000
GR	623.200	1116.000	625.700	1119.000	626.300	1200.000	627.500	1300.000	628.300	1400.000
GR	628.000	1500.000	629.100	1600.000	629.900	1700.000	630.100	1790.000	0.0	0.0
QT	5.000	240.000	465.000	595.000	912.000	595.000	0.0	0.0	0.0	0.0
X1	2440.000	11.000	1073.000	1086.000	2040.000	2040.000	2040.000	0.0	0.0	0.0
GR	652.000	1000.000	636.500	1050.000	636.000	1073.000	632.900	1076.000	632.700	1080.000
GR	632.800	1084.000	636.000	1086.000	636.000	1100.000	636.000	1200.000	643.300	1300.000
GR	652.000	1369.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	212.000	413.000	525.000	807.000	525.000	0.0	0.0	0.0	0.0
X1	4300.000	8.000	1057.000	1069.000	1860.000	1860.000	1860.000	0.0	0.0	0.0
GR	709.300	1000.000	694.900	1057.000	692.500	1058.000	692.400	1062.000	692.600	1066.000
GR	694.000	1069.000	701.700	1100.000	709.300	1128.000	0.0	0.0	0.0	0.0
X1	4400.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	2.100	10.000
X1	4500.000	8.000	1059.500	1064.500	100.000	100.000	100.000	0.0	4.600	10.000
GR	709.300	1000.000	694.900	1057.000	694.900	1059.500	692.400	1062.000	694.900	1064.500
GR	694.000	1069.000	701.700	1100.000	709.300	1128.000	0.0	0.0	0.0	0.0

SB	0.900	1.500	2.500	0.0	4.400	0.0	22.000	0.0	699.900	697.000
X1	4700.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.900	10.000
X2	0.0	0.0	1.000	704.900	720.200	0.0	0.0	0.0	0.0	0.0
BT	8.000	1000.000	720.200	0.0	1057.000	720.200	0.0	1059.500	720.200	702.400
BT	1062.000	720.200	704.900	1064.500	720.200	702.400	1069.000	720.200	0.0	1100.000
BT	720.200	0.0	1128.000	720.200	0.0	0.0	0.0	0.0	0.0	0.0

X1	4800.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	2.800	0.0
X1	4920.000	0.0	0.0	0.0	120.000	120.000	120.000	0.0	3.300	0.0
SB	0.900	1.500	2.500	0.0	4.400	0.0	22.000	0.0	708.900	706.000

X1	5120.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.900	0.0
X2	0.0	0.0	1.000	713.900	720.200	0.0	0.0	0.0	0.0	0.0
BT	8.000	1000.000	720.200	0.0	1057.000	720.200	0.0	1059.500	720.200	711.400
BT	1062.000	720.200	713.900	1064.500	720.200	711.500	1069.000	720.200	0.0	1100.000
BT	720.200	0.0	1128.000	720.200	0.0	0.0	0.0	0.0	0.0	0.0

X1	5300.000	8.000	1057.000	1069.000	180.000	180.000	180.000	0.0	21.000	0.0
GR	709.300	1000.000	694.000	1057.000	692.500	1058.000	692.400	1062.000	692.600	1066.000
GR	694.000	1069.000	701.700	1100.000	709.300	1128.000	0.0	0.0	0.0	0.0

X1	5400.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	2.400	0.0
BT	5.000	212.000	407.000	514.000	781.000	514.000	0.0	0.0	0.0	0.0

X1	6100.000	8.000	1202.000	1206.000	1900.000	1900.000	1900.000	0.0	-2.700	0.0
GR	756.200	1000.000	747.600	1100.000	739.400	1200.000	739.200	1202.000	738.200	1204.000
GR	739.200	1206.000	754.900	1300.000	756.200	1307.000	0.0	0.0	0.0	0.0

X1	6150.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	2.700	0.0
IC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	6200.000	14.000	1277.000	1279.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	756.200	1000.000	747.600	1100.000	739.400	1200.000	746.500	1221.000	742.700	1270.000
GR	742.700	1277.000	742.000	1277.300	741.700	1278.000	742.000	1278.700	742.700	1279.000
GR	742.700	1286.000	750.300	1332.000	755.900	1400.000	759.200	1435.000	0.0	0.0
SP	0.900	1.500	2.500	0.0	2.000	0.010	3.140	0.0	0.0	0.0

R060 R060 MXCEL 743.7 RDELV 746.8

X1	6242.000	0.0	0.0	0.0	42.000	42.000	42.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	743.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	759.200	0.0	1100.000	751.600	0.0	1200.000	746.500	0.0
BT	1277.000	746.900	742.700	1277.300	746.800	743.400	1278.000	746.900	743.700	1278.700
BT	746.800	743.400	1279.000	746.800	742.700	1300.000	747.900	0.0	1400.000	755.900
BT	0.0	1435.000	759.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	6292.000	8.000	1202.000	1206.000	50.000	50.000	50.000	0.0	6.200	0.0
GR	756.200	1000.000	747.600	1100.000	739.400	1200.000	739.200	1202.000	738.200	1204.000
GR	739.200	1206.000	754.900	1300.000	756.200	1307.000	0.0	0.0	0.0	0.0

X1	6342.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	2.700	0.0
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*PROF 1

CCHV= 0.100 CFHV= 0.300
*SECNO 400.000

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	SLOB	SCH	GROR	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROR	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	VLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

400.00	4.12	626.32	626.32	627.20	626.77	0.45	0.0	0.0	625.70
329.	14.	290.	25.	16.	51.	26.	0.	0.	625.70
0.0	0.92	5.74	0.94	0.055	0.035	0.055	0.0	622.20	1049.38
0.005507	400.	400.	400.	0	12	0	0.0	152.43	1201.81

*SECNO 2440.000

2440.00	3.48	636.58	635.55	0.0	636.97	0.39	10.19	0.01	636.00
240.	6.	217.	17.	8.	41.	16.	4.	5.	636.00
0.17	0.25	5.27	1.01	0.055	0.035	0.055	0.035	632.70	1049.75
0.004402	2040.	2040.	2040.	8	12	0	0.0	79.17	1128.91

*SECNO 4300.000

3301 HV CHANGED MORE THAN HVYHS

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	SLOB	SCH	GROR	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROR	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	VLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED USEI,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4300.00	2.53	694.93	694.93	0.0	695.86	0.93	12.84	0.16	694.00
212.	7.	206.	3.	2.	26.	2.	6.	8.	694.00
0.12	1.85	7.24	1.85	0.055	0.035	0.055	0.035	692.40	1053.53
0.013549	1860.	1860.	1860.	20	14	0	0.0	19.23	1072.75

*SECNO 4400.000

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	SLOB	SCH	GROR	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROR	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	VLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4400.00	2.54	697.04	697.04	0.0	697.96	0.92	1.35	0.00	696.10
212.	3.	206.	3.	2.	26.	2.	6.	8.	696.10
0.19	1.85	7.81	1.85	0.055	0.035	0.055	0.035	694.50	1053.50
0.01337A	100.	100.	100.	3	5	0	0.0	19.28	1072.78

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
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T1 DAVIDSON COUNTY BASIN E STRM 7
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 691B
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.006000	0.0	0.0	0.	628.200	0.0
J2	MPROP	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CCHV= 0.300
 *SECMO 400.000

SECNO	DEPTH	CWSFL	CRITL	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	XL0BL	XLCH	XL0BR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

400.00	4.65	626.85	626.85	628.20	627.32	0.47	0.0	0.0	625.70
627.	92.	408.	139.	46.	61.	61.	0.	0.	625.70
0.0	1.70	6.70	1.71	0.055	0.035	0.055	0.0	622.20	1041.48
0.005963	400.	400.	400.	0	13	0	0.0	204.32	1245.80

*SECMO 2440.000

2440.00	4.67	637.37	0.0	0.0	637.77	0.39	10.44	0.01	636.00
469.	91.	311.	107.	27.	52.	66.	8.	8.	636.00
0.12	1.87	6.04	1.61	0.055	0.035	0.055	0.035	632.70	1047.18
0.004291	2040.	2040.	2040.	4	0	0	0.0	121.52	1168.70

*SECMO 4300.000

3301 HV CHANGED MORE THAN HV1'S

SECNO	DEPTH	CWSFL	CRITL	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	XL0BL	XLCH	XL0BR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSFL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
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T1 DAVIDSON COUNTY BASIN E STRM 7
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IVO	MINV	TDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.006000	0.0	0.0	0.	630.200	0.0
J2	MPROF	IPLOT	DRFVS	XSECV	XSECH	FM	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 400.000

SECNO	DEPTH	CWSEL	CRTHS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	SLOP	GCH	GRCP	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROP	XGL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLCP	TRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	4.05	627.05	0.0	630.20	627.52	0.47	0.0	0.0	625.70
704.	121.	453.	211.	58.	64.	109.	0.	0.	625.70
0.0	2.08	7.02	1.93	0.055	0.035	0.055	0.0	622.20	1040.78
0.005964	400.	400.	400.	0	0	6	0.0	222.11	1262.89

*SECNO 2440.000

2440.00	4.97	637.67	0.0	0.0	638.06	0.40	10.53	0.01	636.00
595.	76.	352.	167.	35.	55.	93.	10.	8.	636.00
0.12	2.10	6.36	1.81	0.055	0.035	0.055	0.035	632.70	1046.24
0.004331	2040.	2040.	2040.	4	0	0	0.0	137.04	1183.28

*SECNO 4300.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRTHS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	SLOP	GCH	GRCP	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROP	XGL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	TRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
 4300.00 4.14 696.54 696.54 0.0 697.83 1.29 11.48 0.27 694.00

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

T1 DAVIDSON COUNTY BASIN E STRM 7
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	R	WSEL	FQ
	-10.	5.	0.	0.	0.006000	0.0	0.0	0.	631.200	0.0
J2	MPROF	IPL0T	PRFVS	XSECV	XSECH	FH	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 4

CCHV= 0.100 CEHV= 0.300
 *SECNO 400.000

SECNO	DEPTH	CWSEL	CR1WS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	5.27	627.47	0.0	631.20	627.94	0.47	0.0	0.0	625.70
1173.	217.	550.	406.	83.	72.	176.	0.	0.	625.70
0.0	2.61	7.60	2.30	0.055	0.035	0.055	0.0	622.20	1039.37
0.005992	400.	400.	400.	0	0	7	0.0	258.19	1297.56

*SECNO 2440.000

2440.00	5.51	638.21	0.0	0.0	638.62	0.41	10.67	0.01	636.00
912.	134.	437.	342.	50.	62.	152.	14.	10.	636.00
0.12	2.70	6.99	2.25	0.055	0.035	0.055	0.035	632.70	1044.49
0.004402	2040.	2040.	2040.	0	0	0	0.0	159.45	1203.94

*SECNO 4300.000

5301 HV CHANGED MORE THAN HVINS

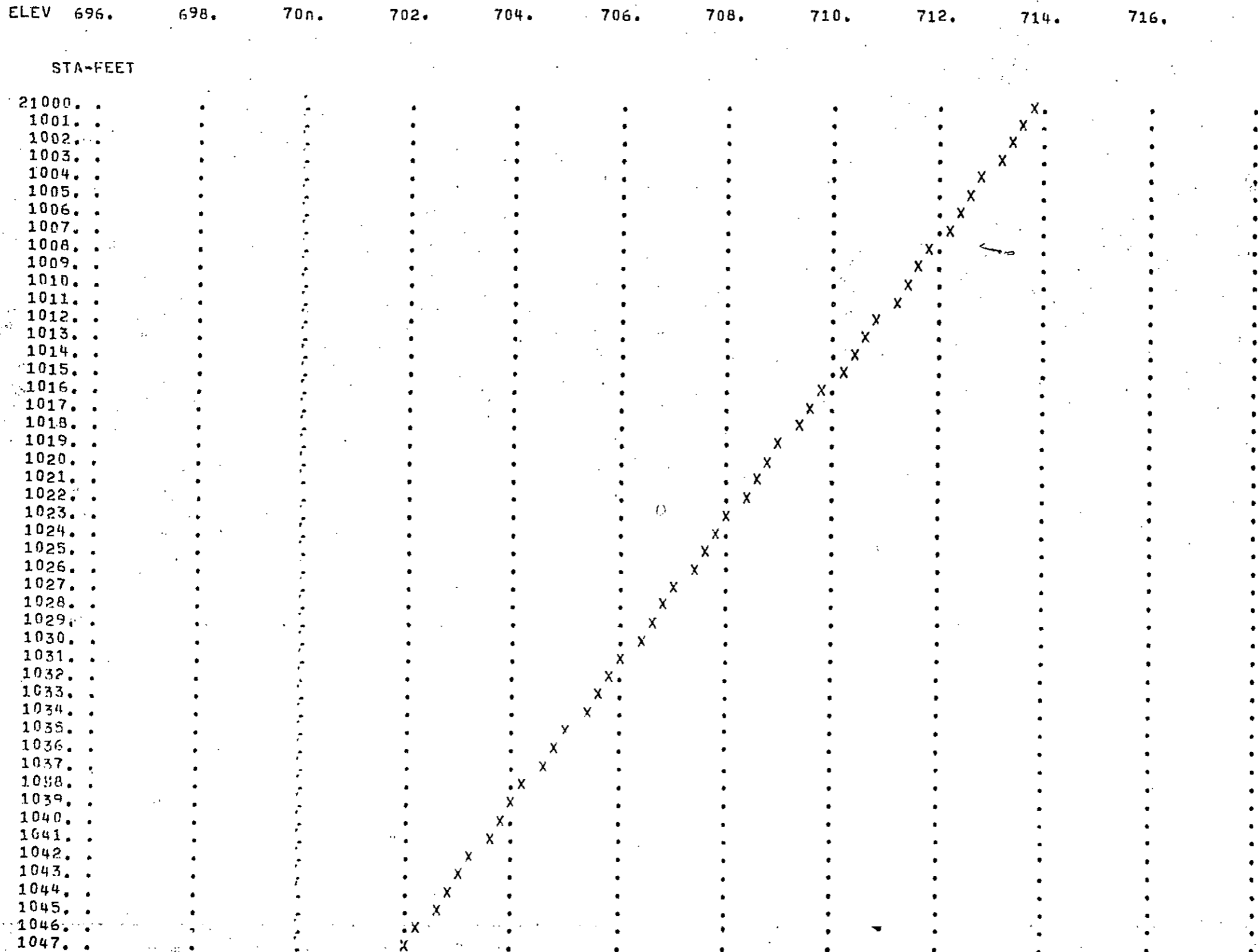
SECNO	DEPTH	CWSEL	CR1WS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

4300.00	5.11	697.51	697.51	0.0	699.02	1.51	11.38	0.33	694.00
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CROSS SECTION 4500.00
 STREAM 10 YEAR FLOOD WATER SURF
 DISCHARGE= 212.

PLOTTED POINTS (BY PRIORITY) - B=BOTTOM BRIDGE, T=TOP BRIDGE, X=GROUND, W=WATER SUR, E=ENERGY GRADIENT, C=CRITICAL WSEL



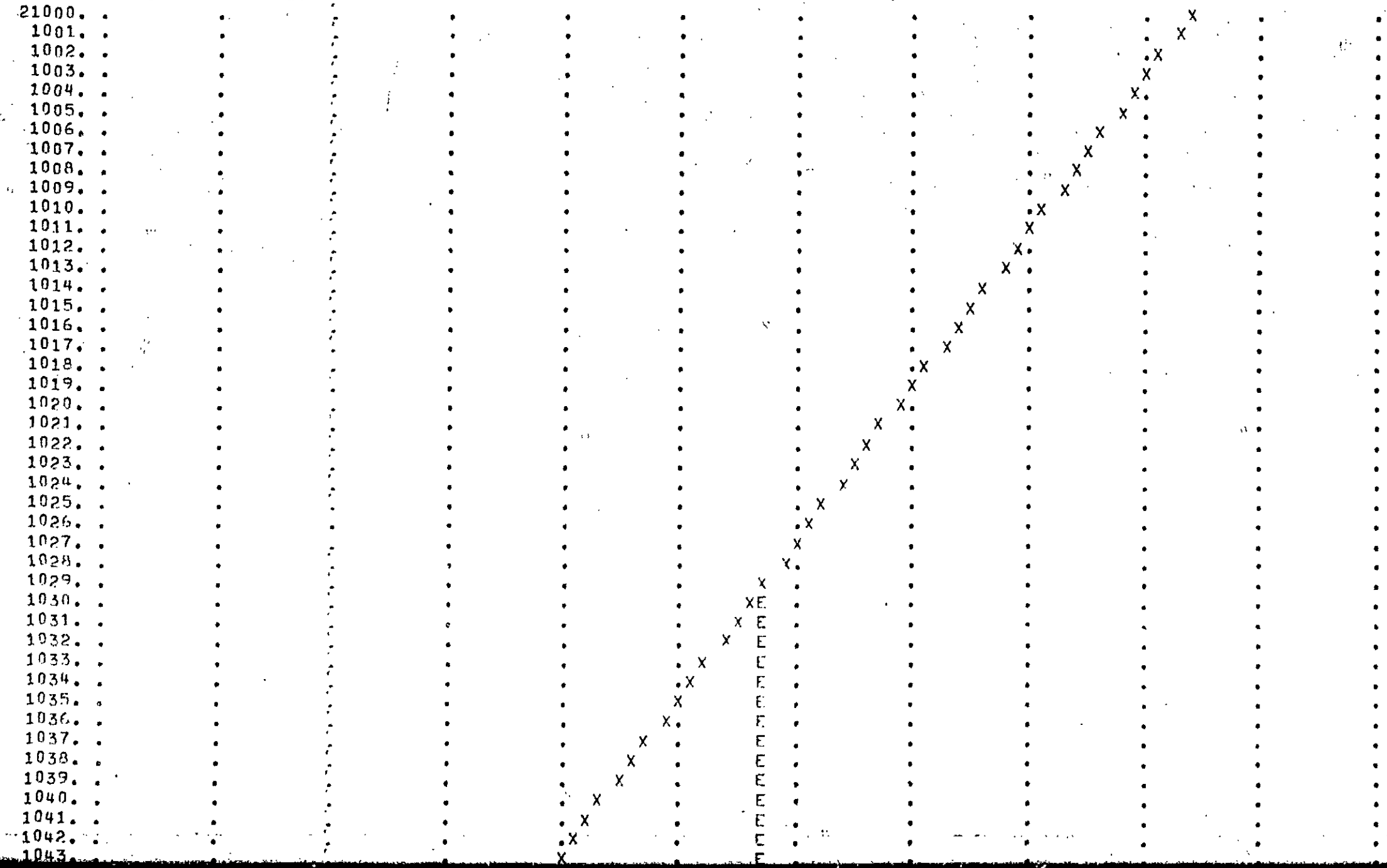
CROSS SECTION 4700.00
 STREAM 10 YEAR FLOOD WATER SURF
 DISCHARGE= 212.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 698. 700. 702. 704. 706. 708. 710. 712. 714. 716. 718.

STA- FEET

8560 XSEC POINT-T EL,ST- 720.20
 8560 XSEC POINT-X EL,ST-
 8560 XSEC POINT-B EL,ST- 0.0
 8560 XSEC POINT-X EL,ST-



1093.
1094.
1095.
1096.
1097.
1098.
1099.

X
X
X
X
X
X

E
E
E
E
E
E

8560 XSEC POINT-T EL,ST- 720.20
8560 XSEC POINT-R EL,ST-
8560 XSEC POINT-B EL,ST- 0.0
8560 XSEC POINT-A EL,ST-
81100.

XE

NRD= 10 ELLC= 704.90 ELTRD= 720.20

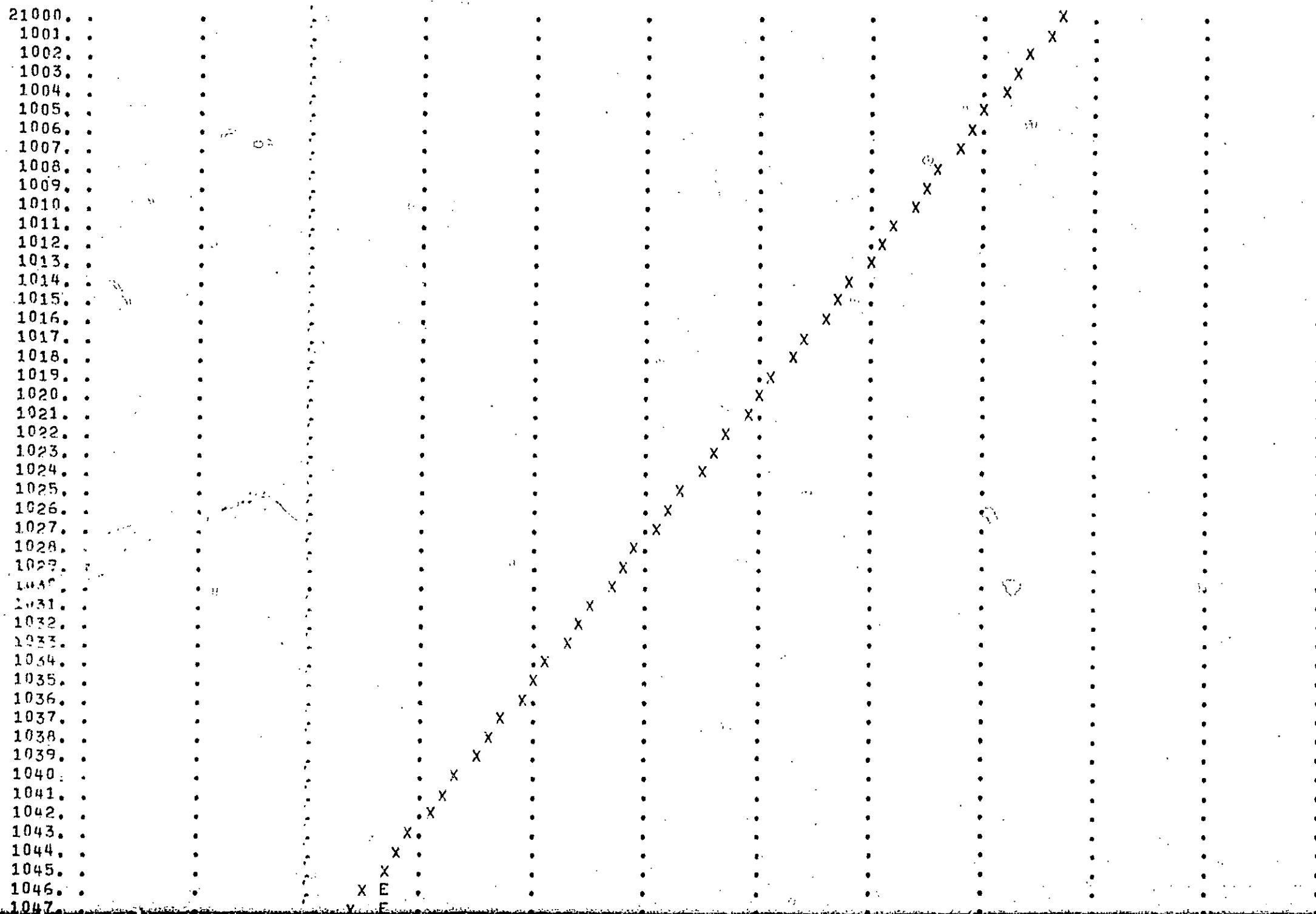
1000.00	0.0	720.20	1057.00	0.0	720.20	1059.50	702.40	720.20	
1062.00	704.90	720.20	1064.50	702.40	720.20	1069.00	0.0	720.20	
1100.00	0.0	720.20	1128.00	0.0	720.20				
EL(I),STA(I)									
716.80	1000.00	702.40	1057.00	702.40	1059.50	699.90	1062.00	702.40	1064.50
701.50	1069.00	709.20	1100.00	716.80	1128.00				

CROSS SECTION 4400.00
 STREAM 50 YEAR FLOOD WATER SURF
 DISCHARGE= 413.

PLOTTED POINTS (BY PRIORITY) B=BOTTOM BRIDGE, T=TOP BRIDGE, X=GROUND, W=WATER SUR, E=ENERGY GRADIENT, C=CRITICAL WSEL

ELEV 694. 696. 698. 700. 702. 704. 706. 708. 710. 712. 714.

STA- FEET

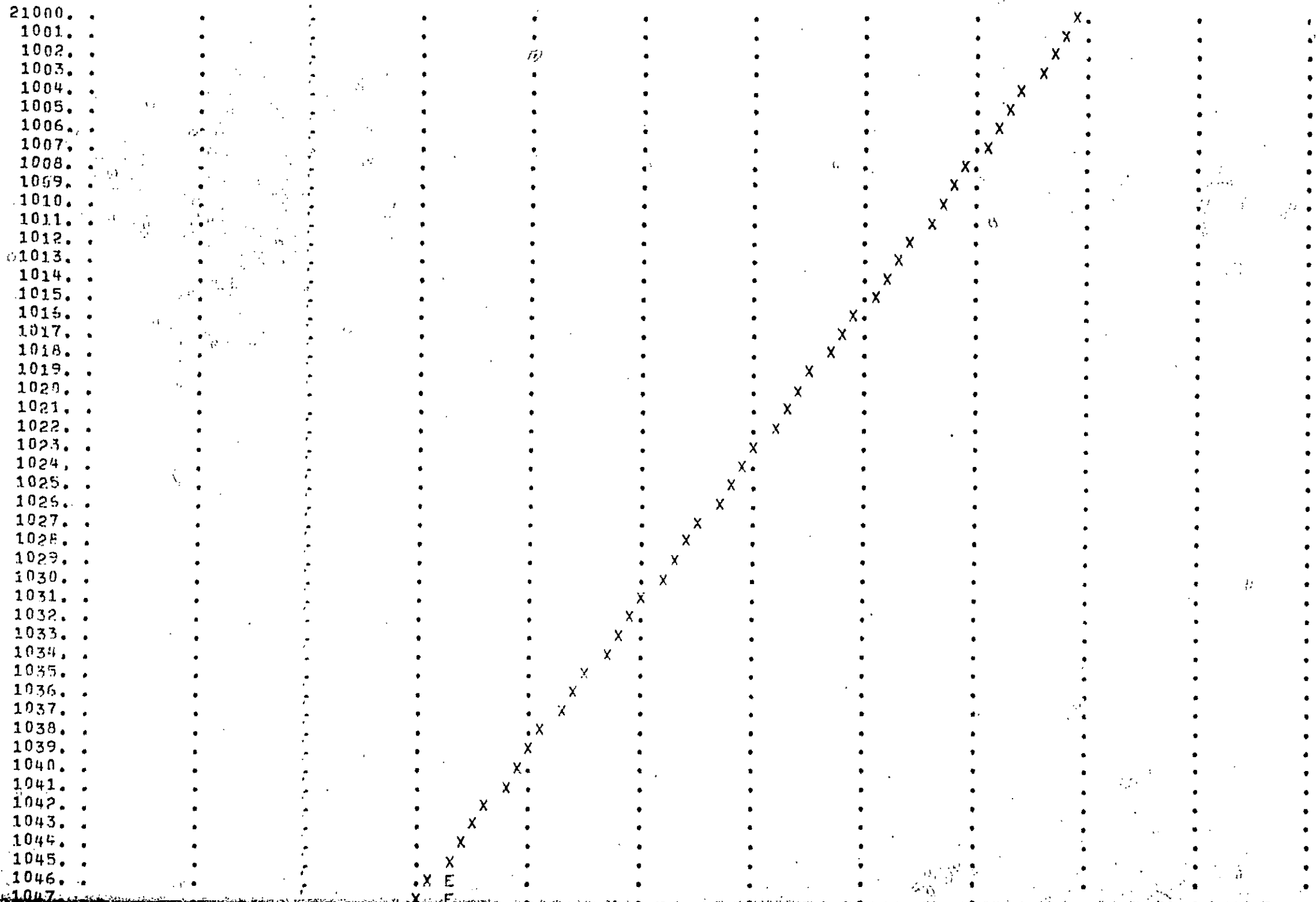


CROSS SECTION 4500.00
 STREAM 50 YEAR FLOOD WATER SURF
 DISCHARGE= 413.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SURF-E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 696. 698. 700. 702. 704. 706. 708. 710. 712. 714. 716.

STA-FEET



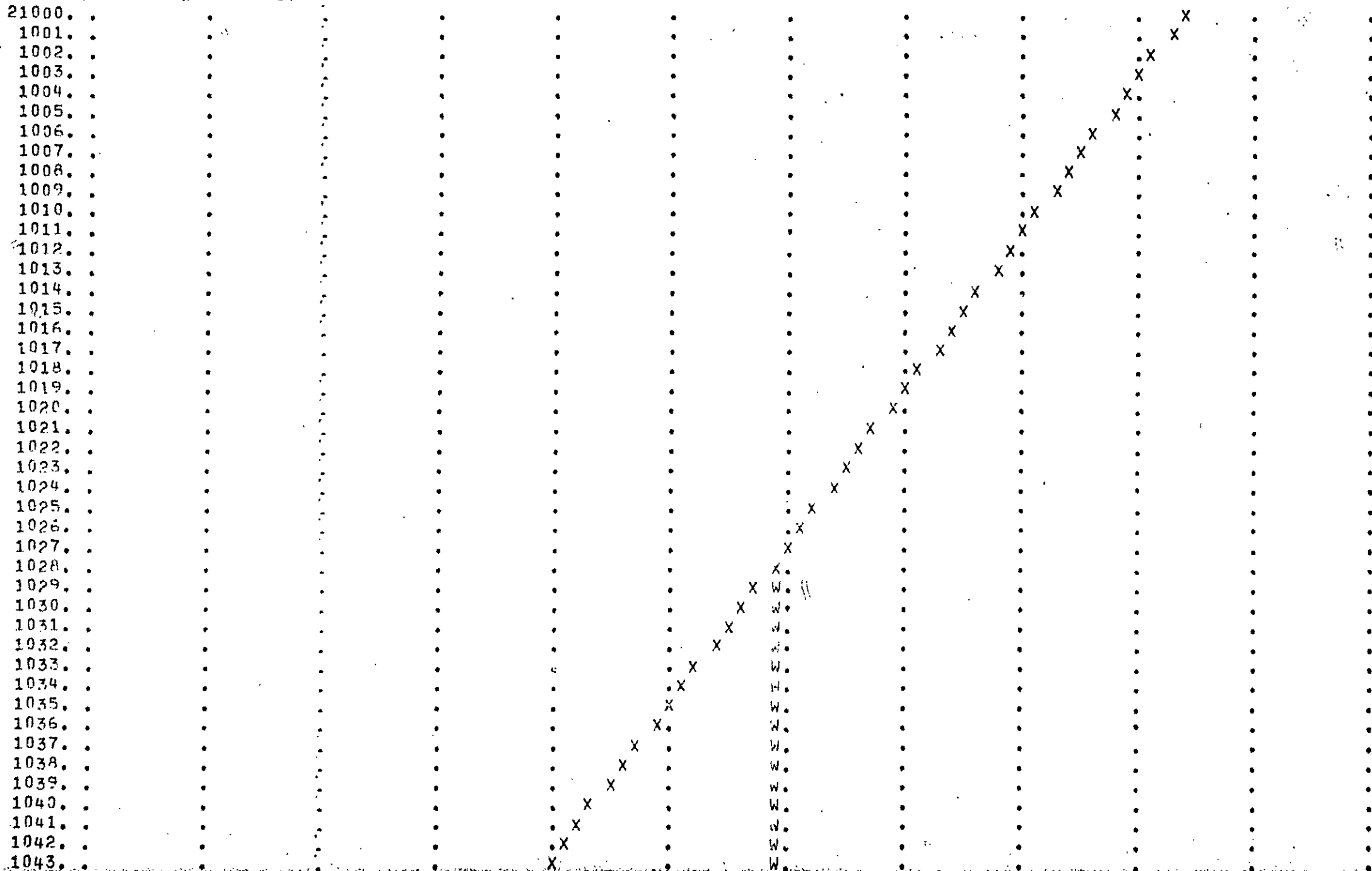
CROSS SECTION 4700.00
 STREAM 50 YEAR FLOOD WATER SURF
 DISCHARGE= 413.

PLOTTED POINTS (BY PRIORITY) B=BOTTOM BRIDGE, T=TOP BRIDGE, X=GROUND, W=WATER SUR, E=ENERGY GRADIENT, C=CRITICAL WSEL

ELEV 698. 700. 702. 704.0 706. 708. 710. 712. 714. 716. 718.

STA-FEET

8560 XSEC POINT-T EL,ST- 720.20
 8560 XSEC POINT-B EL,ST-
 8560 XSEC POINT-R EL,ST- 0.0
 8560 XSEC POINT-L EL,ST-



1093. X W.
 1094. X W.
 1095. X W.
 1096. X W.
 1097. X W.
 1098. X W.
 1099. X W.

8560 XSEC POINT-T EL,ST- 720.20
 8560 XSEC POINT-R EL,ST-
 8560 XSEC POINT-B EL,ST- 0.0
 8560 XSEC POINT-S EL,ST-

81100. X W.
 1101. X W.
 1102. X
 1103. X
 1104. X
 1105. X
 1106. X
 1107. X
 1108. X
 1109. X
 1110. X
 1111. X
 1112. X
 1113. X
 1114. X
 1115. X
 1116. X
 1117. X
 1118. X
 1119. X
 1120. X
 1121. X
 1122. X
 1123. X
 1124. X
 1125. X
 1126. X
 1127. X

8560 XSEC POINT-T EL,ST- 720.20
 8560 XSEC POINT-R EL,ST-
 8560 XSEC POINT-B EL,ST- 0.0
 8560 XSEC POINT-S EL,ST-

91128. X

NRD= 10 ELLC= 704.90 EITRD= 720.20

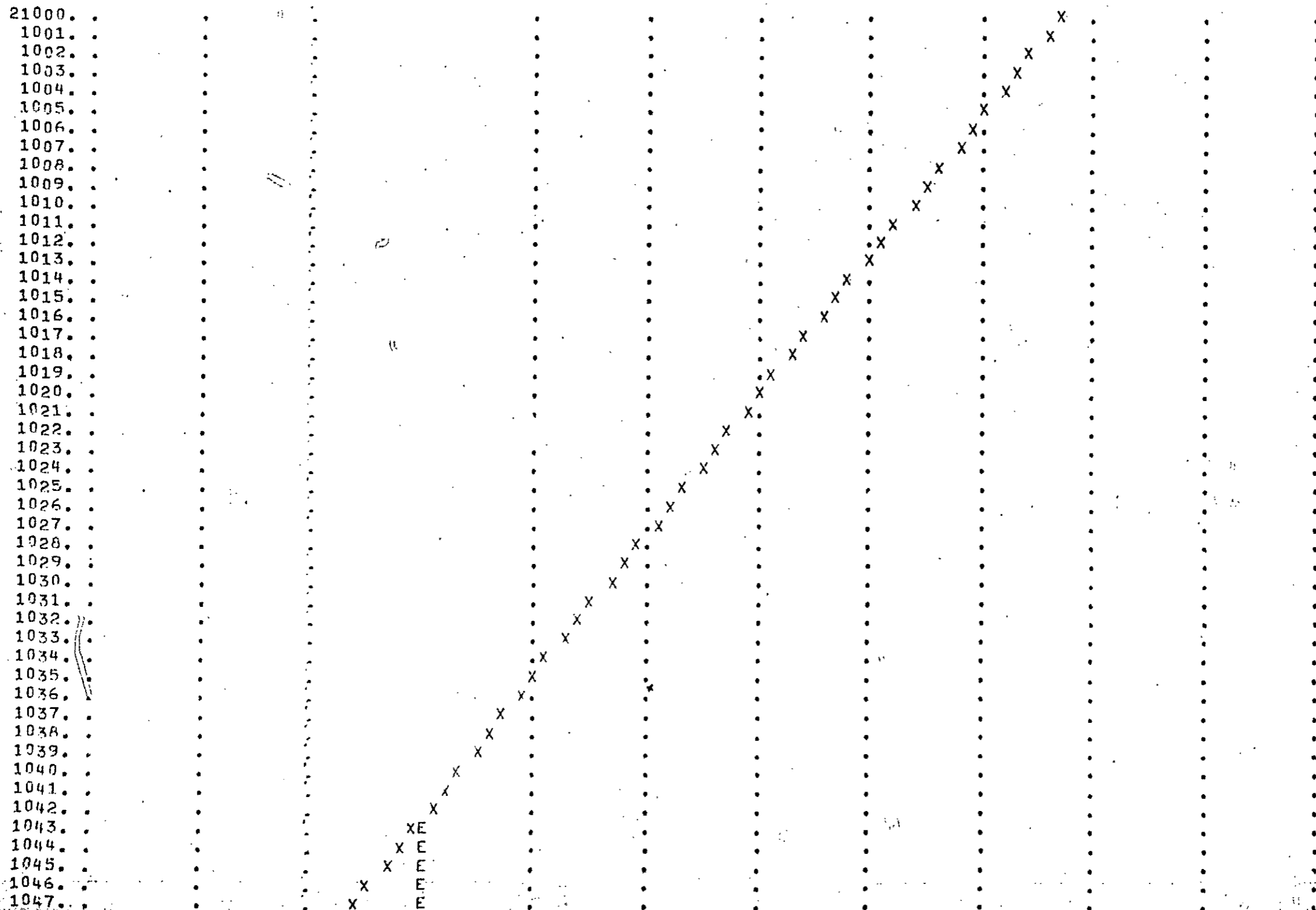
1000.00	0.0	720.20	1057.00	0.0	720.20	1059.50	702.40	720.20	
1062.00	704.90	720.20	1064.50	702.40	720.20	1069.00	0.0	720.20	
1100.00	0.0	720.20	1128.00	0.0	720.20				
EL(I),STA(I)									
716.80	1000.00	702.40	1057.00	702.40	1059.50	699.90	1062.00	702.40	1064.50
701.50	1069.00	709.20	1100.00	716.80	1128.00				

CROSS SECTION 4400.00
 STREAM 100 YEAR FLOOD WATER SUR
 DISCHARGE= 525.

PLOTTED POINTS (BY PRIORITY)-B=BOTTON BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 694. 696. 698. 700. 702. 704. 706. 708. 710. 712. 714.

STA-FEET



```

1045. . . . . X E
1046. . . . . X E
1047. . . . . X E
1048. . . . . X E
1049. . . . . X W E
1050. . . . . X W E
1051. . . . . X W E
1052. . . . . X W E
1053. . . . . X W E
1054. . . . . X W E
1055. . . . . X W E
1056. . . . . X W E
31057. . . . . X W E
41058. . . . . X W E
1059. . . . . X W E
1060. . . . . X W E
1061. . . . . X W E
51062. . . . . X W E
1063. . . . . X W E
1064. . . . . X W E
1065. . . . . X W E
61066. . . . . X W E
1067. . . . . X W E
1068. . . . . X W E
71069. . . . . X W E
1070. . . . . X W E
1071. . . . . X W E
1072. . . . . X W E
1073. . . . . X W E
1074. . . . . X W E
1075. . . . . X W E
1076. . . . . X W E
1077. . . . . X W E
1078. . . . . X W E
1079. . . . . X W E
1080. . . . . X W E
1081. . . . . X W E
1082. . . . . X W E
1083. . . . . X W E
1084. . . . . X W E
1085. . . . . X W E
1086. . . . . X W E
1087. . . . . X W E
1088. . . . . X W E
1089. . . . . X W E
1090. . . . . X W E
1091. . . . . X W E
1092. . . . . X W E
1093. . . . . X W E
1094. . . . . X W E
1095. . . . . X W E
1096. . . . . X W E
1097. . . . . X W E
1098. . . . . X W E
1099. . . . . X W E
81100. . . . . X W E

```

BANK

BANK

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I), STA(I)	1000.00	696.10	1057.00	694.60	1058.00	694.50	1062.00	694.70	1066.00
711.40	1000.00	696.10	1057.00	694.60	1058.00	694.50	1062.00	694.70	1066.00
696.10	1069.00	703.90	1100.00	711.40	1128.00				

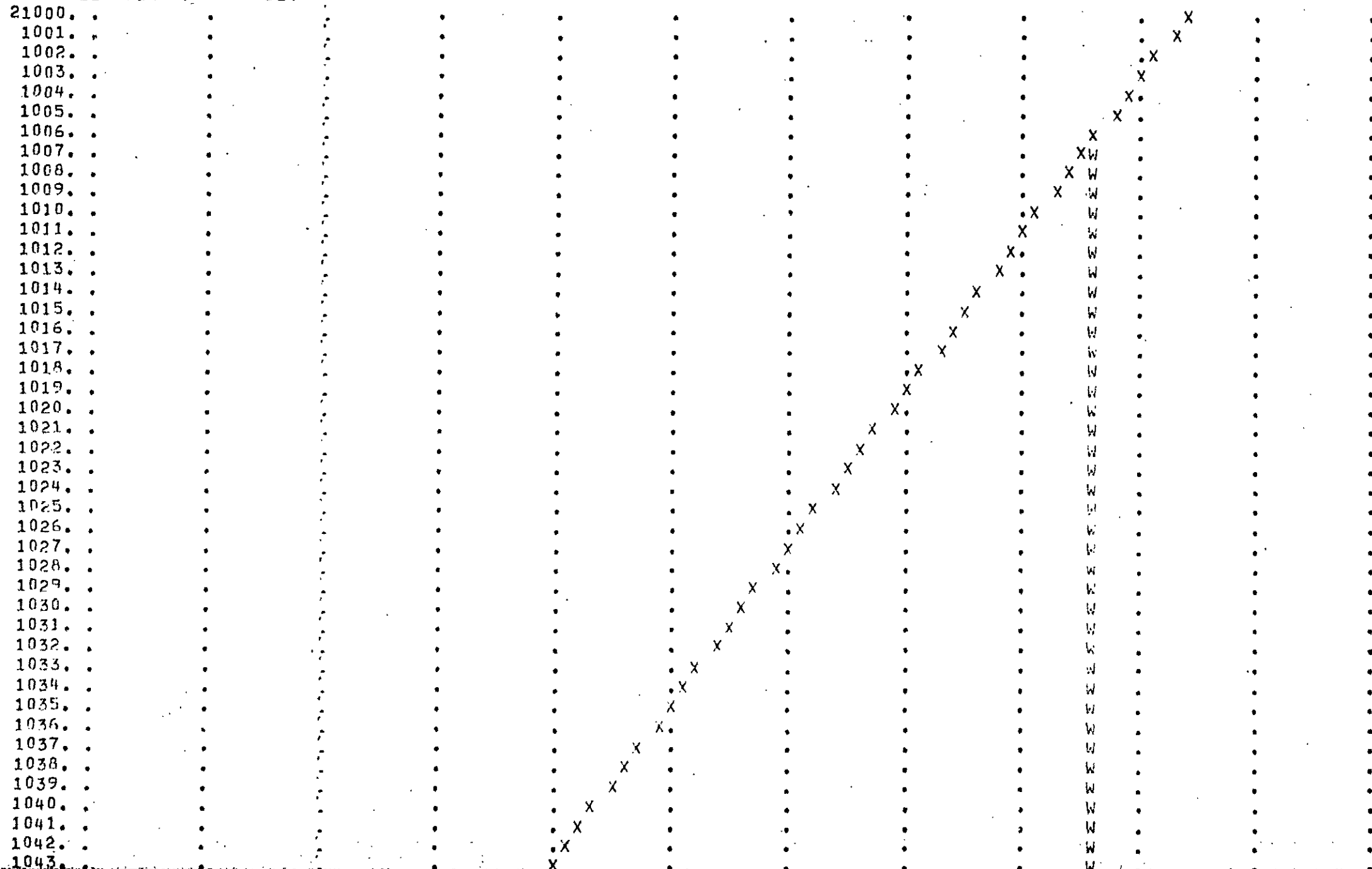
CROSS SECTION 4700.00
 STREAM 100 YEAR FLOOD WATER SUR
 DISCHARGE= 525.

PLOTTED POINTS (BY PRIORITY) B=BOTTOM BRIDGE, T=TOP BRIDGE, X=GROUND, W=WATER SUR, E=ENERGY GRADIENT, C=CRITICAL WSEL

ELEV 698. 700. 702. 704. 706. 708. 710. 712. 714. 716. 718.

STA- FEET

8560 XSEC POINT-T EL, ST- 720.20
 8560 XSEC POINT-R EL, ST-
 8560 XSEC POINT-R EL, ST- 0.0
 8560 XSEC POINT-E EL, ST-



No.	Description	Units	Rate	Amount	Notes
1041.					X
1042.					X
1043.					X
1044.					X
1045.					X
1046.					X
1047.					X
1048.					X
1049.					X
1050.					X
1051.					X
1052.					X
1053.					X
1054.					X
1055.					X
1056.					X
9560 XSEC POINT-T	EL,ST-		720.20		
8560 XSEC POINT-R	EL,ST-				
8560 XSEC POINT-R	EL,ST-		0.0		
8560 XSEC POINT-R	EL,ST-				
31057.					X
1058.					X
8560 XSEC POINT-T	EL,ST-		720.20		
8560 XSEC POINT-R	EL,ST-				
41059.					B
1060.					X
1061.					B
8560 XSEC POINT-T	EL,ST-		720.20		
8560 XSEC POINT-R	EL,ST-				
51062.					B
1063.					B
8560 XSEC POINT-T	EL,ST-		720.20		
8560 XSEC POINT-R	EL,ST-				
61064.					B
1065.					X
1066.					X
1067.					X
1068.					X
8560 XSEC POINT-T	EL,ST-		720.20		
8560 XSEC POINT-R	EL,ST-				
8560 XSEC POINT-R	EL,ST-		0.0		
8560 XSEC POINT-R	EL,ST-				
71069.					X
1070.					X
1071.					X
1072.					X
1073.					X
1074.					X
1075.					X
1076.					X
1077.					X
1078.					X
1079.					X
1080.					X
1081.					X
1082.					X
1083.					X
1094.					X
1095.					X
1085.					X
1087.					X
1088.					X
1089.					X
1090.					X
1091.					X
1092.					X
1093.					X
1094.					X
1095.					X

1093. X
 1094. X
 1095. X
 1096. X
 1097. X
 1098. X
 1099. X
 8560 XSEC POINT-T EL,ST- 720.20
 8560 XSEC POINT-X EL,ST-
 8560 XSEC POINT-B EL,ST- 0.0
 8560 XSEC POINT-X EL,ST-

81100. X
 1101. X
 1102. X
 1103. X
 1104. X
 1105. X
 1106. X
 1107. X
 1108. X
 1109. X
 1110. X
 1111. X
 1112. X
 1113. X
 1114. X
 1115. X
 1116. X
 1117. X
 1118. X
 1119. X
 1120. X
 1121. X
 1122. X
 1123. X
 1124. X
 1125. X
 1126. X
 1127. X
 8560 XSEC POINT-T EL,ST- 720.20
 8560 XSEC POINT-X EL,ST-
 8560 XSEC POINT-B EL,ST- 0.0
 8560 XSEC POINT-X EL,ST-
 91128. X

NRD= 10 ELIC= 704.90 ELTRD= 720.20

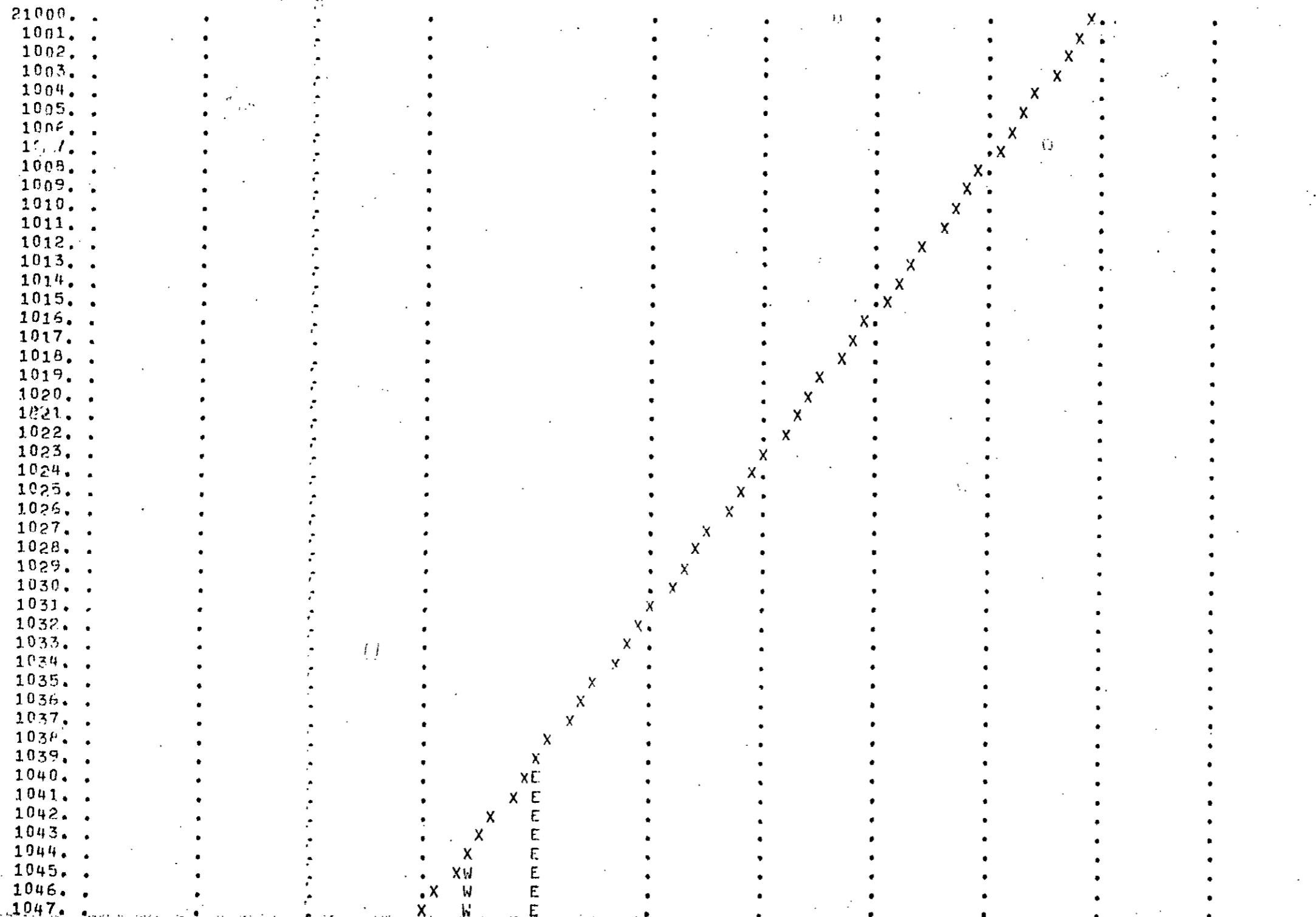
1000.00	0.0	720.20	1057.00	0.0	720.20	1059.50	702.40	720.20	
1062.00	704.90	720.20	1064.50	702.40	720.20	1069.00	0.0	720.20	
1100.00	0.0	720.20	1128.00	0.0	720.20				
EL(I),STA(I)									
716.00	1000.00	702.40	1057.00	702.40	1059.50	699.90	1062.00	702.40	1064.50
701.50	1069.00	709.20	1100.00	716.80	1128.00				

CROSS SECTION 4500.00
 STREAM 500 YEAR FLOOD WATER SUR
 DISCHARGE= 807.

PLOTTED POINTS (BY PRIORITY) B=BOTTON BRIDGE, T=TOP BRIDGE, X=GROUND, W=WATER SUR, E=ENERGY GRADIENT, C=CRITICAL WSEL

ELEV 696. 698. 700. 702. 704. 706. 708. 710. 712. 714. 716.

STA-FEET



```

1045. . . . . X W E
1046. . . . . X W W E
1047. . . . . X W W E
1048. . . . . X W W E
1049. . . . . X W W E
1050. . . . . X W W E
1051. . . . . X W W E
1052. . . . . X W W E
1053. . . . . X W W E
1054. . . . . X W W E
1055. . . . . X W W E
1056. . . . . X W W E
31057. . . . . X W W E
1058. . . . . X W W E
41059. . . . . X W W E
1060. . . . . X W W E
1061. . . . . X W W E
51062. . . . . X W W E
1063. . . . . X W W E
61064. . . . . X W W E
1065. . . . . X W W E
1066. . . . . X W W E
1067. . . . . X W W E
1068. . . . . X W W E
71069. . . . . X W W E
1070. . . . . X W W E
1071. . . . . X W W E
1072. . . . . X W W E
1073. . . . . X W W E
1074. . . . . X W W E
1075. . . . . X W W E
1076. . . . . X W W E
1077. . . . . X W W E
1078. . . . . X W W E
1079. . . . . X W W E
1080. . . . . X W W E
1081. . . . . X W W E
1082. . . . . X W W E
1083. . . . . X W W E
1084. . . . . X W W E
1085. . . . . X W W E
1086. . . . . X W W E
1087. . . . . X W W E
1088. . . . . X W W E
1089. . . . . X W W E
1090. . . . . X W W E
1091. . . . . X W W E
1092. . . . . X W W E
1093. . . . . X W W E
1094. . . . . X W W E
1095. . . . . X W W E
1096. . . . . X W W E
1097. . . . . X W W E
1098. . . . . X W W E
1099. . . . . X W W E
81100. . . . . X W W E

```

BANK

BANK

NRD= 0 FLLC= 9999999.00 EITRD= 9999999.00

EL(I),STA(I)	1000.00	699.50	1057.00	699.50	1059.50	697.00	1062.00	699.50	1064.50
713.90	1000.00	699.50	1057.00	699.50	1059.50	697.00	1062.00	699.50	1064.50
698.50	1069.00	706.30	1100.00	713.90	1128.00				

CROSS SECTION 4700.00
 STREAM 500 YEAR FLOOD WATER SUR
 DISCHARGE= 807.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 690. 700. 710. 720. 730. 740. 750. 760. 770. 780. 790.

STA-FEET

STA-FEET	EL,ST-	0.0
8560 XSEC POINT-B	EL,ST-	0.0
8560 XSEC POINT-X	EL,ST-	
21000.		XX
1001.		X TW
1002.		X TW
1003.		X TW
1004.		X TW
1005.		X TW
1006.		X TW
1007.		X TW
1008.		X TW
1009.		X TW
1010.		Y TW
1011.		X TW
1012.		Y TW
1013.		X TW
1014.		X TW
1015.		X TW
1016.		X TW
1017.		X TW
1018.		X TW
1019.		X TW
1020.		X TW
1021.		X TW
1022.		X TW
1023.		Y TW
1024.		Y TW
1025.		Y TW
1026.		Y TW
1027.		Y TW
1028.		Y TW
1029.		X TW
1030.		X TW
1031.		X TW
1032.		X TW
1033.		X TW
1034.		X TW
1035.		X TW
1036.		X TW
1037.		X TW
1038.		X TW
1039.		X TW
1040.		X TW
1041.		X TW
1042.		X TW
1043.		Y TW
1044.		X TW
1045.		X TW

1043.		X	TW
1044.		X	TW
1045.		X	TW
1046.		X	TW
1047.		X	TW
1048.		X	TW
1049.		X	TW
1050.		X	TW
1051.		X	TW
1052.		X	TW
1053.		X	TW
1054.		X	TW
1055.		X	TW
1056.		X	TW

8560 XSEC POINT-B EL,ST- 0.0
8560 XSEC POINT-X EL,ST-

31057.		Y	TW
1058.		X	TW
41059.		P	TW
1060.		Y R	TW
1061.		X B	TW
51062.		X B	TW
1063.		X B	TW
61064.		R	TW
1065.		X	TW
1066.		X	TW
1067.		X	TW
1068.		X	TW

8560 XSEC POINT-B EL,ST- 0.0
8560 XSEC POINT-X EL,ST-

71069.		X	TW
1070.		X	TW
1071.		X	TW
1072.		X	TW
1073.		Y	TW
1074.		X	TW
1075.		X	TW
1076.		X	TW
1077.		X	TW
1078.		X	TW
1079.		X	TW
1080.		X	TW
1081.		X	TW
1082.		X	TW
1083.		X	TW
1084.		X	TW
1085.		X	TW
1086.		Y	TW
1087.		Y	TW
1088.		Y	TW
1089.		Y	TW
1090.		X	TW
1091.		Y	TW
1092.		Y	TW
1093.		X	TW
1094.		X	TW
1095.		X	TW
1096.		X	TW
1097.		X	TW
1098.		X	TW
1099.		X	TW

8560 XSEC POINT-B EL,ST- 0.0
8560 XSEC POINT-X EL,ST-

81100.		X	TW
1101.		X	TW
1102.		Y	TW
1103.		Y	TW
1104.		Y	TW
1105.		X	TW

BANK.

BANK.

1103.			TW
1104.			TW
1105.	X		TW
1106.	X		TW
1107.	X		TW
1108.	X		TW
1109.	X		TW
1110.	X		TW
1111.	X		TW
1112.	X		TW
1113.	X		TW
1114.	X		TW
1115.	X		TW
1116.	X		TW
1117.	Y		TW
1118.	X		TW
1119.	X		TW
1120.	X		TW
1121.	X		TW
1122.	X		TW
1123.	X		TW
1124.	X		TW
1125.	X		TW
1126.	X		TW
1127.	X		TW

8560 XSEC POINT-B
8560 XSEC POINT-R
101128.

EL,ST-
EL,ST-

0.0
XXX XXX

NRD= 10 ELLC= 704.90 EITRD= 720.20

1000.00	0.0	720.20	1057.00	0.0	720.20	1059.50	702.40	720.20
1062.00	704.90	720.20	1064.50	702.40	720.20	1069.00	0.0	720.20
1100.00	0.0	720.20	1128.00	0.0	720.20			
EL(I),STA(I)								
716.80	1000.00	702.40	1057.00	702.40	1059.50	699.90	1062.00	702.40 1064.50
701.50	1069.00	709.20	1100.00	716.80	1128.00			

 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

	SECHO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
*	400.000	400.00	n.0	0.0	329.00	622.20	626.32	626.32	5.74	1049.38	1201.81	92.37	0.0
* A	400.000	400.00	n.0	0.0	627.00	622.20	626.85	626.85	6.70	1041.48	1245.80	187.94	0.53
	400.000	400.00	n.0	0.0	784.00	622.20	627.05	0.0	7.02	1040.78	1262.89	231.69	0.21
	400.000	400.00	n.0	0.0	1173.00	622.20	627.47	0.0	7.60	1039.37	1297.56	331.64	0.42
	2440.000	2040.00	n.0	0.0	240.00	632.70	636.58	635.55	5.27	1049.75	1128.91	65.19	0.0
B	2440.000	2040.00	n.0	0.0	469.00	632.70	637.37	0.0	6.04	1047.18	1168.70	145.04	0.80
	2440.000	2040.00	n.0	0.0	595.00	632.70	637.67	0.0	6.36	1046.24	1183.28	182.75	0.29
	2440.000	2040.00	n.0	0.0	912.00	632.70	638.21	0.0	6.99	1044.49	1203.94	264.31	0.54
*	4300.000	1860.00	n.0	0.0	212.00	692.40	694.93	694.93	7.84	1053.53	1072.75	29.61	0.0
* C	4300.000	1860.00	n.0	0.0	413.00	692.40	696.06	696.06	9.22	1049.32	1077.30	56.28	1.13
	4300.000	1860.00	n.0	0.0	525.00	692.40	696.54	696.54	9.81	1047.53	1079.23	70.60	0.48
*	4300.000	1860.00	n.0	0.0	807.00	692.40	697.51	697.51	11.00	1043.93	1083.12	104.84	0.97
*	4400.000	100.00	n.0	0.0	212.00	694.50	697.04	697.04	7.81	1053.50	1072.78	29.75	0.0
*	4400.000	100.00	n.0	0.0	413.00	694.50	698.17	698.17	9.21	1049.30	1077.32	56.39	1.13
*	4400.000	100.00	n.0	0.0	525.00	694.50	698.65	698.65	9.79	1047.51	1079.25	70.76	0.48
*	4400.000	100.00	n.0	0.0	807.00	694.50	699.62	699.62	10.97	1043.89	1083.16	105.23	0.97
*	4500.000	100.00	n.0	0.0	212.00	697.00	700.81	700.81	8.51	1051.80	1077.91	37.34	0.0
*	4500.000	100.00	n.0	0.0	413.00	697.00	701.66	701.66	10.32	1048.46	1081.31	62.17	0.84
*	4500.000	100.00	n.0	0.0	525.00	697.00	702.01	702.01	11.11	1047.05	1082.74	74.38	0.36
*	4500.000	100.00	n.0	0.0	807.00	697.00	702.82	702.82	12.32	1043.87	1085.98	105.67	0.80
*	4700.000	200.00	720.20	704.90	212.00	699.90	704.90	704.90	16.96	1047.10	1082.69	12.50	0.0
	4700.000	200.00	720.20	704.90	413.00	699.90	709.84	0.0	2.04	1027.56	1102.35	346.84	4.94
	4700.000	200.00	720.20	704.90	525.00	699.90	715.27	0.0	1.04	1006.03	1122.39	866.76	5.43
	4700.000	200.00	720.20	704.90	807.00	699.90	720.91	0.0	0.86	1000.00	1128.00	1579.94	5.64
	4800.000	100.00	n.0	0.0	212.00	702.70	709.90	0.0	2.06	1038.40	1091.54	171.52	0.0
D	4800.000	100.00	n.0	0.0	413.00	702.70	709.81	0.0	4.11	1038.72	1091.21	167.17	-0.09
	4800.000	100.00	n.0	0.0	525.00	702.70	715.27	0.0	1.57	1017.14	1112.04	570.12	5.46
	4800.000	100.00	n.0	0.0	807.00	702.70	720.91	0.0	1.13	1000.00	1128.00	1220.90	5.64
*	4920.000	120.00	n.0	0.0	212.00	706.00	709.80	709.80	8.61	1051.87	1077.84	36.86	0.0
*	4920.000	120.00	n.0	0.0	413.00	706.00	710.64	710.64	10.30	1048.51	1081.26	61.81	0.85
	4920.000	120.00	n.0	0.0	525.00	706.00	715.26	0.0	3.03	1030.22	1099.86	298.35	4.61
	4920.000	120.00	n.0	0.0	807.00	706.00	720.91	0.0	1.70	1007.86	1120.69	813.83	5.65

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIMS	VCH	SSTA	ENDST	AREA	DIFWSP
4920.000	120.00	0.0	0.0	807.00	706.00	720.91	0.0	1.70	1007.86	1120.69	813.83	5.65
* 5120.000	200.00	720.20	713.90	212.00	708.90	715.41	713.90	16.76	1041.13	1088.76	12.86	0.0
* 5120.000	200.00	720.20	713.90	413.00	708.90	718.82	0.0	2.04	1027.61	1102.31	345.98	3.42
* 5120.000	200.00	720.20	713.90	525.00	708.90	720.88	0.0	1.73	1019.45	1109.90	516.19	2.05
* 5120.000	200.00	720.20	713.90	807.00	708.90	721.82	0.0	2.28	1015.73	1113.36	604.50	0.95
* 5300.000	180.00	0.0	0.0	212.00	713.40	720.27	0.0	1.81	1037.35	1090.24	186.19	0.0
* 5300.000	180.00	0.0	0.0	413.00	713.40	718.68	0.0	5.34	1043.26	1083.84	111.99	-1.59
* 5300.000	180.00	0.0	0.0	525.00	713.40	720.81	0.0	3.96	1035.34	1092.41	215.83	2.13
* 5300.000	180.00	0.0	0.0	807.00	713.40	721.73	0.0	5.01	1031.92	1096.11	271.53	0.92
* 5400.000	100.00	0.0	0.0	212.00	715.80	720.21	0.0	3.60	1046.50	1080.35	79.64	0.0
* 5400.000	100.00	0.0	0.0	413.00	715.80	719.46	0.0	9.22	1049.32	1077.30	56.24	-0.75
* 5400.000	100.00	0.0	0.0	525.00	715.80	720.49	0.0	8.15	1045.49	1081.44	89.13	1.03
* 5400.000	100.00	0.0	0.0	807.00	715.80	721.30	0.0	9.01	1042.47	1084.70	120.79	0.81
* 6100.000	1900.00	0.0	0.0	212.00	735.50	738.55	738.55	8.69	1177.40	1218.29	47.68	0.0
* 6100.000	1900.00	0.0	0.0	407.00	735.50	739.49	0.0	8.90	1165.82	1223.98	94.70	0.94
* 6100.000	1900.00	0.0	0.0	514.00	735.50	739.51	739.51	11.19	1165.72	1224.03	95.19	0.02
* 6100.000	1900.00	0.0	0.0	781.00	735.50	740.11	740.11	12.37	1158.39	1227.63	133.56	0.60
* 6150.000	50.00	0.0	0.0	212.00	738.20	741.27	741.27	8.60	1177.24	1218.37	48.20	0.0
* 6150.000	50.00	0.0	0.0	407.00	738.20	741.96	741.96	10.29	1168.00	1222.51	81.04	0.69
* 6150.000	50.00	0.0	0.0	514.00	738.20	742.23	742.23	11.09	1165.53	1224.12	96.07	0.27
* 6150.000	50.00	0.0	0.0	781.00	738.20	742.78	742.78	12.57	1158.77	1227.44	131.37	0.55
* 6200.000	50.00	0.0	0.0	212.00	739.40	741.91	0.0	0.81	1169.41	1278.48	47.77	0.0
* 6200.000	50.00	0.0	0.0	407.00	739.40	742.63	0.0	2.15	1160.57	1278.97	80.48	0.73
* 6200.000	50.00	0.0	0.0	514.00	739.40	742.97	0.0	2.64	1156.54	1287.60	102.50	0.34
* 6200.000	50.00	0.0	0.0	781.00	739.40	743.68	0.0	3.31	1147.76	1291.95	165.30	0.71
* 6242.000	42.00	744.50	743.70	212.00	739.40	741.91	0.0	0.81	1169.37	1278.49	47.91	0.0
* 6242.000	42.00	744.50	743.70	407.00	739.40	742.64	0.0	2.15	1160.50	1278.97	80.75	0.73
* 6242.000	42.00	744.50	743.70	514.00	739.40	742.98	0.0	2.64	1156.38	1287.68	103.49	0.34
* 6242.000	42.00	744.50	743.70	781.00	739.40	748.61	0.0	0.72	1088.18	1321.81	1035.41	5.63
* 6292.000	50.00	0.0	0.0	212.00	744.40	747.45	747.45	8.68	1177.39	1218.30	47.72	0.0
* 6292.000	50.00	0.0	0.0	407.00	744.40	748.13	748.13	10.46	1169.13	1222.35	79.59	0.68
* 6292.000	50.00	0.0	0.0	514.00	744.40	748.44	748.44	11.03	1165.42	1224.18	96.63	0.30
* 6292.000	50.00	0.0	0.0	731.00	744.40	748.98	748.98	12.55	1158.73	1227.46	131.60	0.55
* 6342.000	50.00	0.0	0.0	212.00	747.10	750.17	750.17	8.60	1177.24	1218.37	48.20	0.0
* 6342.000	50.00	0.0	0.0	407.00	747.10	750.84	750.84	10.39	1160.99	1222.42	80.19	0.68
* 6342.000	50.00	0.0	0.0	514.00	747.10	751.12	751.12	11.15	1165.64	1224.07	95.56	0.27
* 6342.000	50.00	0.0	0.0	781.00	747.10	751.69	751.69	12.50	1158.64	1227.50	132.07	0.57

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CNSL	CRIWS	EG	10K*S	VCH	AREA	.01K
* 400.000	400.00	n.0	0.0	622.20	329.00	626.32	626.32	626.77	55.07	5.74	92.37	44.33
* 400.000	400.00	n.0	0.0	622.20	627.00	626.85	626.85	627.32	59.03	6.70	187.94	81.61
400.000	400.00	n.0	0.0	622.20	784.00	627.05	0.0	627.52	59.64	7.02	231.69	101.52
400.000	400.00	n.0	0.0	622.20	1173.00	627.47	0.0	627.94	59.92	7.60	331.64	151.54
2440.000	2040.00	n.0	0.0	632.70	240.00	636.58	635.55	636.97	44.02	5.27	65.19	36.17
2440.000	2040.00	n.0	0.0	632.70	469.00	637.37	0.0	637.77	42.91	6.04	145.04	71.60
2440.000	2040.00	n.0	0.0	632.70	595.00	637.67	0.0	638.06	43.31	6.36	182.75	90.41
2440.000	2040.00	n.0	0.0	632.70	912.00	638.21	0.0	638.62	44.49	6.99	264.31	136.72
* 4300.000	1860.00	n.0	0.0	692.40	212.00	694.93	694.93	695.86	135.40	7.84	29.61	18.22
* 4300.000	1860.00	n.0	0.0	692.40	413.00	696.06	696.06	697.25	107.38	9.22	56.28	39.86
* 4300.000	1860.00	n.0	0.0	692.40	525.00	696.54	696.54	697.83	101.44	9.81	70.60	52.13
* 4300.000	1860.00	n.0	0.0	692.40	807.00	697.51	697.51	699.02	94.41	11.00	104.84	83.06
* 4400.000	100.00	n.0	0.0	694.50	212.00	697.04	697.04	697.96	133.78	7.81	29.75	18.33
* 4400.000	100.00	n.0	0.0	694.50	413.00	698.17	698.17	699.35	106.89	9.21	56.39	39.95
* 4400.000	100.00	n.0	0.0	694.50	525.00	698.65	698.65	699.93	100.89	9.79	70.76	52.27
* 4400.000	100.00	n.0	0.0	694.50	807.00	699.62	699.62	701.12	93.58	10.97	105.23	83.42
* 4500.000	100.00	n.0	0.0	697.00	212.00	700.81	700.81	701.53	181.56	9.51	37.34	15.73
* 4500.000	100.00	n.0	0.0	697.00	413.00	701.66	701.66	702.51	183.03	10.32	62.17	30.52
* 4500.000	100.00	n.0	0.0	697.00	525.00	702.01	702.01	703.08	185.61	11.11	74.38	38.53
* 4500.000	100.00	n.0	0.0	697.00	807.00	702.82	702.82	704.05	176.22	12.32	105.67	60.79
* 4700.000	200.00	720.20	704.90	699.90	212.00	704.90	704.90	709.37	746.37	16.96	12.50	7.76
4700.000	200.00	720.20	704.90	699.90	413.00	709.84	0.0	709.86	2.05	2.04	346.84	288.37
4700.000	200.00	720.20	704.90	699.90	525.00	715.27	0.0	715.28	0.28	1.04	866.76	991.59
4700.000	200.00	720.20	704.90	699.90	807.00	720.91	0.0	720.92	0.12	0.86	1579.94	2325.49
4800.000	100.00	n.0	0.0	702.70	212.00	709.90	0.0	709.93	3.46	2.06	171.52	113.92
4800.000	100.00	n.0	0.0	702.70	413.00	709.81	0.0	709.94	14.05	4.11	167.17	110.19
4800.000	100.00	n.0	0.0	702.70	525.00	715.27	0.0	715.28	0.85	1.57	570.12	567.97
4800.000	100.00	n.0	0.0	702.70	807.00	720.91	0.0	720.92	0.26	1.13	1220.90	1588.15
* 4920.000	120.00	n.0	0.0	706.00	212.00	709.80	709.80	710.53	187.72	8.61	36.86	15.47
* 4920.000	120.00	n.0	0.0	706.00	413.00	710.64	710.64	711.61	185.87	10.38	61.81	30.29
4920.000	120.00	n.0	0.0	706.00	525.00	715.26	0.0	715.32	5.05	3.03	298.35	233.55
4920.000	120.00	n.0	0.0	706.00	807.00	720.91	0.0	720.93	0.78	1.70	813.83	912.33
* 5120.000	200.00	720.20	713.90	708.90	212.00	715.41	713.90	719.76	1467.72	16.76	12.86	5.53
5120.000	200.00	720.20	713.90	708.90	413.00	719.82	0.0	718.85	2.07	2.04	345.98	287.38
5120.000	200.00	720.20	713.90	708.90	525.00	720.88	0.0	720.90	1.12	1.73	516.19	496.90
5120.000	200.00	720.20	713.90	708.90	807.00	721.82	0.0	721.86	1.73	2.28	604.50	614.33
5300.000	180.00	n.0	0.0	713.40	212.00	720.27	0.0	720.31	1.67	1.81	186.19	163.93
5300.000	180.00	n.0	0.0	713.40	413.00	718.68	0.0	719.04	21.16	5.34	111.99	89.77
5300.000	180.00	n.0	0.0	713.40	525.00	720.81	0.0	720.98	7.21	3.96	215.83	195.55
5300.000	180.00	n.0	0.0	713.40	807.00	721.73	0.0	721.99	9.82	5.01	271.53	257.57
5400.000	100.00	n.0	0.0	715.80	212.00	720.21	0.0	720.38	12.45	3.60	79.64	60.08
* 5400.000	100.00	n.0	0.0	715.80	413.00	719.46	719.46	720.65	107.54	9.22	56.24	39.83
5400.000	100.00	n.0	0.0	715.80	525.00	720.49	0.0	721.35	58.56	8.15	89.13	68.60

5400.000	100.00	0.0	0.0	715.80	212.00	720.21	0.0	720.38	12.45	3.60	79.64	60.08
* 5400.000	100.00	0.0	0.0	715.80	413.00	719.46	719.46	720.65	107.54	9.22	56.24	39.83
5400.000	100.00	0.0	0.0	715.80	525.00	720.49	0.0	721.35	58.56	8.15	89.13	68.60
5400.000	100.00	0.0	0.0	715.80	807.00	721.30	0.0	722.47	67.59	9.81	120.79	98.16

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
* 6100.000	1900.00	0.0	0.0	735.50	212.00	738.55	738.55	739.14	139.21	8.69	47.68	17.97
6100.000	1900.00	0.0	0.0	735.50	407.00	739.49	0.0	740.00	95.91	8.90	94.70	41.56
* 6100.000	1900.00	0.0	0.0	735.50	514.00	739.51	739.51	740.31	151.02	11.19	95.19	41.83
* 6100.000	1900.00	0.0	0.0	735.50	781.00	740.11	740.11	741.01	149.55	12.37	133.56	63.86
* 6150.000	50.00	0.0	0.0	738.20	212.00	741.27	741.27	741.84	135.63	8.60	48.20	18.20
* 6150.000	50.00	0.0	0.0	738.20	407.00	741.96	741.96	742.67	141.04	10.29	81.04	34.27
* 6150.000	50.00	0.0	0.0	738.20	514.00	742.23	742.23	743.01	147.59	11.09	96.07	42.31
* 6150.000	50.00	0.0	0.0	738.20	781.00	742.78	742.78	743.71	155.90	12.57	131.37	62.58
6200.000	50.00	0.0	0.0	739.40	212.00	741.91	0.0	742.21	42.10	0.81	47.77	32.68
6200.000	50.00	0.0	0.0	739.40	407.00	742.63	0.0	743.04	39.54	2.15	80.48	64.73
6200.000	50.00	0.0	0.0	739.40	514.00	742.97	0.0	743.38	36.41	2.64	102.50	85.18
6200.000	50.00	0.0	0.0	739.40	781.00	743.68	0.0	744.04	27.22	3.31	165.30	149.70
6242.000	42.00	746.50	743.70	739.40	212.00	741.91	0.0	742.22	41.76	0.81	47.91	32.80
6242.000	42.00	746.50	743.70	739.40	407.00	742.64	0.0	743.04	39.19	2.15	80.75	65.02
6242.000	42.00	746.50	743.70	739.40	514.00	742.98	0.0	743.37	35.63	2.64	103.49	86.11
6242.000	42.00	746.50	743.70	739.40	781.00	748.61	0.0	748.62	0.20	0.72	1035.41	1725.67
* 6292.000	50.00	0.0	0.0	744.40	212.00	747.45	747.45	748.04	138.93	8.68	47.72	17.99
* 6292.000	50.00	0.0	0.0	744.40	407.00	748.13	748.13	748.87	147.45	10.46	79.59	33.52
* 6292.000	50.00	0.0	0.0	744.40	514.00	748.44	748.44	749.21	145.48	11.03	96.63	42.62
* 6292.000	50.00	0.0	0.0	744.40	781.00	748.98	748.98	749.91	155.20	12.55	131.60	62.69
* 6342.000	50.00	0.0	0.0	747.10	212.00	750.17	750.17	750.74	135.63	8.60	48.20	18.20
* 6342.000	50.00	0.0	0.0	747.10	407.00	750.84	750.84	751.57	144.75	10.39	80.19	33.83
* 6342.000	50.00	0.0	0.0	747.10	514.00	751.12	751.12	751.91	149.57	11.15	95.56	42.03
* 6342.000	50.00	0.0	0.0	747.10	781.00	751.69	751.69	752.61	153.81	12.50	132.07	62.97

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSFL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 400.000	329.00	626.32	0.0	0.0	-0.88	152.43	400.00
* 400.000	627.00	626.85	0.53	0.0	-1.35	204.32	400.00
400.000	784.00	627.05	0.21	0.0	-3.15	222.11	400.00
400.000	1173.00	627.47	0.42	0.0	-3.73	258.19	400.00
2440.000	240.00	636.58	0.0	10.26	0.0	79.17	2040.00
2440.000	469.00	637.37	0.80	10.52	0.0	121.52	2040.00
2440.000	595.00	637.67	0.29	10.61	0.0	137.04	2040.00
2440.000	912.00	638.21	0.54	10.74	0.0	159.45	2040.00
* 4300.000	212.00	694.93	0.0	58.35	0.0	19.23	1860.00
* 4300.000	413.00	696.06	1.13	58.69	0.0	27.98	1860.00
* 4300.000	525.00	696.54	0.48	58.86	0.0	31.70	1860.00
* 4300.000	807.00	697.51	0.97	59.30	0.0	39.19	1860.00
* 4400.000	212.00	697.04	0.0	2.11	0.0	19.28	100.00
* 4400.000	413.00	698.17	1.13	2.10	0.0	28.01	100.00
* 4400.000	525.00	698.65	0.48	2.10	0.0	31.74	100.00
* 4400.000	807.00	699.62	0.97	2.11	0.0	39.27	100.00
* 4500.000	212.00	700.81	0.0	3.77	0.0	26.12	100.00
* 4500.000	413.00	701.66	0.84	3.49	0.0	32.84	100.00
* 4500.000	525.00	702.01	0.36	3.37	0.0	35.69	100.00
* 4500.000	807.00	702.82	0.80	3.20	0.0	42.11	100.00
* 4700.000	212.00	706.90	0.0	4.09	0.0	35.59	200.00
4700.000	413.00	709.84	4.94	8.18	0.0	74.79	200.00
4700.000	525.00	715.27	5.43	13.26	0.0	116.36	200.00
4700.000	807.00	720.91	5.64	18.10	0.0	128.00	200.00
4800.000	212.00	709.90	0.0	5.00	0.0	53.15	100.00
4800.000	413.00	709.81	-0.09	-0.83	0.0	52.49	100.00
4800.000	525.00	715.27	5.46	-0.00	0.0	94.90	100.00
4800.000	807.00	720.91	5.64	-0.00	0.0	128.00	100.00
* 4920.000	212.00	706.80	0.0	-0.10	0.0	25.97	120.00
* 4920.000	413.00	710.64	0.85	0.83	0.0	32.75	120.00
4920.000	525.00	715.26	4.61	-0.01	0.0	69.64	120.00
4920.000	807.00	720.91	5.65	-0.00	0.0	112.83	120.00
* 5120.000	212.00	715.41	0.0	5.61	0.0	47.63	200.00
5120.000	413.00	718.82	3.42	8.18	0.0	74.70	200.00
5120.000	525.00	720.88	2.05	5.62	0.0	90.45	200.00
5120.000	807.00	721.82	0.95	0.92	0.0	97.63	200.00
5300.000	212.00	720.27	0.0	4.86	0.0	52.89	180.00
5300.000	413.00	718.68	-1.59	-0.14	0.0	40.58	180.00
5300.000	525.00	720.81	2.13	-0.06	0.0	57.07	180.00
5300.000	807.00	721.73	0.92	-0.09	0.0	64.19	180.00
5400.000	212.00	720.21	0.0	-0.06	0.0	33.84	100.00
* 5400.000	413.00	719.46	-0.75	0.78	0.0	27.97	100.00
5400.000	525.00	720.49	1.03	-0.32	0.0	35.95	100.00

5400.000	212.00	720.21	0.0	-0.06	0.0	33.84	100.00
* 5400.000	413.00	719.46	-0.75	-0.78	0.0	27.97	100.00
5400.000	525.00	720.49	1.03	-0.32	0.0	35.95	100.00
5400.000	807.00	721.30	0.81	-0.44	0.0	42.23	100.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 6100.000	212.00	738.55	0.0	18.34	0.0	40.89	1900.00
6100.000	407.00	739.49	0.94	20.03	0.0	58.16	1900.00
* 6100.000	514.00	739.51	0.02	19.02	0.0	58.31	1900.00
* 6100.000	781.00	740.11	0.60	18.81	0.0	69.25	1900.00
* 6150.000	212.00	741.27	0.0	2.71	0.0	41.13	50.00
* 6150.000	407.00	741.96	0.69	2.46	0.0	53.71	50.00
* 6150.000	514.00	742.23	0.27	2.72	0.0	58.58	50.00
* 6150.000	781.00	742.78	0.55	2.67	0.0	68.67	50.00
6200.000	212.00	741.91	0.0	0.64	0.0	38.98	50.00
6200.000	407.00	742.63	0.73	0.68	0.0	50.94	50.00
6200.000	514.00	742.97	0.34	0.75	0.0	75.00	50.00
6200.000	781.00	743.68	0.71	0.90	0.0	99.54	50.00
6242.000	212.00	741.91	0.0	0.00	0.0	39.05	42.00
6242.000	407.00	742.64	0.73	0.01	0.0	51.02	42.00
6242.000	514.00	742.98	0.34	0.01	0.0	75.45	42.00
6242.000	781.00	743.61	5.63	4.93	0.0	233.63	42.00
* 6292.000	212.00	747.45	0.0	5.54	0.0	40.91	50.00
* 6292.000	407.00	748.13	0.68	5.49	0.0	53.22	50.00
* 6292.000	514.00	748.44	0.30	5.46	0.0	58.76	50.00
* 6292.000	781.00	748.98	0.55	0.38	0.0	68.73	50.00
* 6342.000	212.00	750.17	0.0	2.71	0.0	41.13	50.00
* 6342.000	407.00	750.84	0.68	2.71	0.0	53.43	50.00
* 6342.000	514.00	751.12	0.27	2.68	0.0	58.42	50.00
* 6342.000	781.00	751.69	0.57	2.71	0.0	68.86	50.00

SUMMARY OF ERRORS

CAUTION	SECNO= 400.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 400.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4300.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4300.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4300.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4300.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4300.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4300.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4300.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4300.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4300.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4300.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4300.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4300.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4400.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4400.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4400.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4400.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4400.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4400.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4400.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 6292.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 6292.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6292.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 6292.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6342.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6342.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 6342.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 6342.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6342.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 6342.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 6342.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6342.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 6342.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 6342.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6342.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 6342.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

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		
		10f	20	0.20
400.000	0.	-0.7	-0.2	0.4
2440.000	2040.	-1.1	-0.3	0.5
4300.000	3900.	-1.6	-0.5	1.0
4400.000	4000.	-1.6	-0.5	1.0
4500.000	4100.	-1.2	-0.4	0.8
4700.000	4300.	-10.4	-5.4	5.6
4800.000	4400.	-5.4	-5.5	5.6
4920.000	4520.	-5.5	-4.6	5.7
5120.000	4720.	-5.5	-2.1	0.9
5300.000	4900.	-0.5	-2.1	0.9
5400.000	5000.	-0.3	-1.0	0.8
6100.000	6900.	-1.0	-0.0	0.6
6150.000	6950.	-1.0	-0.3	0.6
6200.000	7000.	-1.1	-0.3	0.7
6242.000	7042.	-1.1	-0.3	5.6
6292.000	7092.	-1.0	-0.3	0.5
6342.000	7142.	-1.0	-0.3	0.6

WEIGHTED AVG FOR REACH		-1.4	-0.7	1.0

FHF FOR THE REACH = 0.15 WITH 32.20 OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = 4.3

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		100	10	DIFF.			
	0.						
					SEC.	400.000	
1	100.	626.6	627.3	-0.7	-0.7	005	100.
2	200.	627.1	627.8	-0.8	-0.8	010	100.
3	300.	627.6	628.4	-0.8	-0.8	010	100.
4	400.	628.1	628.9	-0.8	-0.8	010	100.
5	500.	628.6	629.4	-0.8	-0.8	010	100.
6	600.	629.1	629.9	-0.8	-0.8	010	100.
7	700.	629.6	630.4	-0.8	-0.8	010	100.
8	800.	630.1	631.0	-0.9	-0.8	010	100.
9	900.	630.6	631.5	-0.9	-0.8	010	100.
10	1000.	631.1	632.0	-0.9	-0.8	010	100.
11	1100.	631.6	632.5	-0.9	-0.8	010	100.
12	1200.	632.1	633.0	-0.9	-0.8	010	100.
13	1300.	632.6	633.6	-0.9	-0.8	010	100.
14	1400.	633.1	634.1	-1.0	-0.9	010	100.
15	1500.	633.6	634.6	-1.0	-0.9	010	100.

13	1300.	632.6	633.6	-0.9	-0.8	010	100.
14	1400.	633.1	634.1	-1.0	-0.9	010	100.
15	1500.	633.6	634.6	-1.0	-0.9	010	100.
16	1600.	634.1	635.1	-1.0	-0.9	010	100.
17	1700.	634.6	635.6	-1.0	-0.9	010	100.
18	1800.	635.1	636.2	-1.0	-0.9	010	100.
19	1900.	635.6	636.7	-1.1	-0.9	010	100.
20	2000.	636.1	637.2	-1.1	-0.9	010	100.
	2040.					SEC. 2440.000	
21	2100.	637.4	638.5	-1.1	-0.9	010	100.
22	2200.	640.0	641.1	-1.1	-0.9	010	100.
23	2300.	643.2	644.3	-1.1	-0.9	010	100.
24	2400.	646.3	647.5	-1.2	-0.9	010	100.
25	2500.	649.4	650.6	-1.2	-1.0	010	100.
26	2600.	652.6	653.8	-1.2	-1.0	010	100.
27	2700.	655.7	657.0	-1.3	-1.0	010	100.
28	2800.	658.9	660.1	-1.3	-1.0	010	100.
29	2900.	662.0	663.3	-1.3	-1.0	010	100.
30	3000.	665.1	666.5	-1.3	-1.0	010	100.
31	3100.	668.3	669.6	-1.4	-1.0	010	100.
32	3200.	671.4	672.8	-1.4	-1.0	010	100.
33	3300.	674.5	676.0	-1.4	-1.0	010	100.
34	3400.	677.7	679.1	-1.5	-1.1	010	100.
35	3500.	680.8	682.3	-1.5	-1.1	010	100.
36	3600.	684.0	685.5	-1.5	-1.1	010	100.
37	3700.	687.1	688.6	-1.5	-1.1	010	100.
38	3800.	690.2	691.8	-1.6	-1.1	010	100.
	3900.					SEC. 4300.000	
39	3900.	693.4	695.0	-1.6	-1.1	010	100.
	4000.					SEC. 4400.000	
40	4000.	696.0	697.6	-1.6	-1.1	010	100.
	4100.					SEC. 4500.000	
41	4100.	698.9	700.3	-1.4	-1.1	010	100.
42	4200.	701.8	705.3	-3.5	-1.2	010	98.
	4300.					SEC. 4700.000	
43	4300.	703.9	712.0	-8.1	-1.4	015	79.
	4400.					SEC. 4800.000	
44	4400.	707.4	715.3	-7.9	-1.5	015	57.
45	4500.	709.9	715.3	-5.4	-1.6	015	47.
	4520.					SEC. 4920.000	
46	4600.	710.9	716.4	-5.5	-1.7	015	39.
47	4700.	713.4	718.9	-5.5	-1.8	020	32.
	4720.					SEC. 5120.000	
48	4800.	716.2	720.6	-4.4	-1.8	020	27.
	4900.					SEC. 5300.000	
49	4900.	718.9	720.8	-1.9	-1.8	020	29.
	5000.					SEC. 5400.000	
50	5000.	720.2	720.7	-0.4	-1.8	020	30.
51	5100.	720.7	721.0	-0.3	-1.8	020	31.
52	5200.	721.7	722.0	-0.3	-1.7	015	33.
53	5300.	722.6	723.0	-0.4	-1.7	015	34.
54	5400.	723.6	724.0	-0.4	-1.7	015	33.
55	5500.	724.6	725.0	-0.4	-1.7	015	35.
56	5600.	725.5	726.0	-0.5	-1.6	015	36.
57	5700.	726.5	727.0	-0.5	-1.6	015	37.
58	5800.	727.5	728.0	-0.5	-1.6	015	36.
59	5900.	728.4	729.0	-0.6	-1.6	015	37.
60	6000.	729.4	730.0	-0.6	-1.6	015	38.
61	6100.	730.3	731.0	-0.7	-1.5	015	39.
62	6200.	731.3	732.0	-0.7	-1.5	015	40.
63	6300.	732.3	733.0	-0.7	-1.5	015	40.
64	6400.	733.2	734.0	-0.8	-1.5	015	41.
65	6500.	734.2	735.0	-0.8	-1.5	015	42.
66	6600.	735.2	736.0	-0.8	-1.5	015	41.
67	6700.	736.1	737.0	-0.9	-1.5	015	42.
68	6800.	737.1	738.0	-0.9	-1.5	015	41.
	6900.					SEC. 6100.000	
69	6900.	738.1	739.0	-0.9	-1.5	015	42.
	6950.					SEC. 6150.000	

69	6900.					SEC.	6100.000	
	6900.	738.1	739.0	-0.9	-1.5	015		42.
	6950.					SEC.	6150.000	
70	7000.	740.2	741.2	-1.0	-1.5	015		43.
	7000.					SEC.	6200.000	
	7042.					SEC.	6242.000	
	7092.					SEC.	6292.000	
71	7100.	747.7	748.6	-1.0	-1.4	015		45.
	7142.					SEC.	6342.000	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLEC 202 42 71
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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

EJ