

FILE UNDER TITLE: DRY CREEK

Baker

February 17, 1994

Mr. Bob Gottsacker
City Engineer, City of Reno
P.O. Box 1900
Reno Nevada 89505

Michael Baker Jr., Inc.
3601 Eisenhower Avenue, Suite 600
Alexandria, Virginia 22304

(703) 960-8800
FAX (703) 960-9125

Dear Mr. Gottsacker:

I have enclosed the following information pertaining to the analyses performed at Michael Baker Jr., Inc., pursuant to the review and resolution of the appeal of the middle fork of Dry Creek flood hazard information contained in the preliminary Flood Insurance Study for Reno. Please note that those analyses consist of five different reaches modeled using HEC-2 and connected by areas of sheetflow.

- A diagram showing the extent of each reach. The area demarcated with the blue and orange stripes is where the blue and orange reaches overlap. The sheetflow areas are colored yellow.
- A diagram showing the direction of flow in the sheetflow (yellow) areas.
- A diagram showing the locations of the computed water surface elevations.
- Five packages -- one for each reach -- of hydraulic computations including HEC-2 runs, cross section plots, and some hand calculations for overflows.
- A diskette containing the input files -- one for each of the five HEC-2 models.
- A package containing information particular to the split flow at Virginia Avenue. Note that the HEC-2 model included in that package is not on the diskette. It is, however, the upper portion of the model labeled "MAIN.DAT" using different discharge values to rate the culvert.

Hopefully, the information is self explanatory. If not, please do not hesitate to call me at (703) 960-8800. If I am not at my desk when you call, please have me paged.

Sincerely,


Ed Mifflin



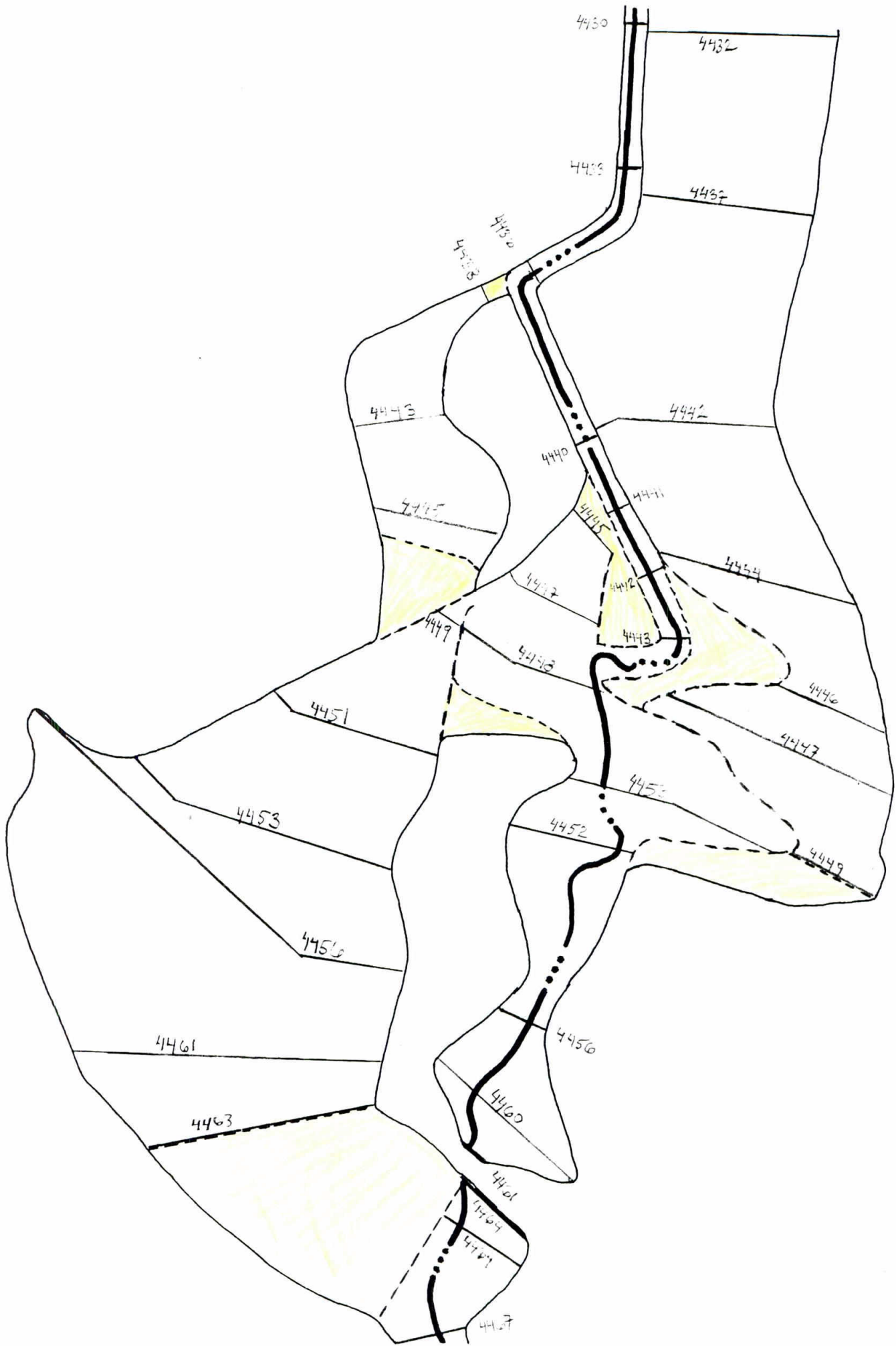
A Total Quality Corporation

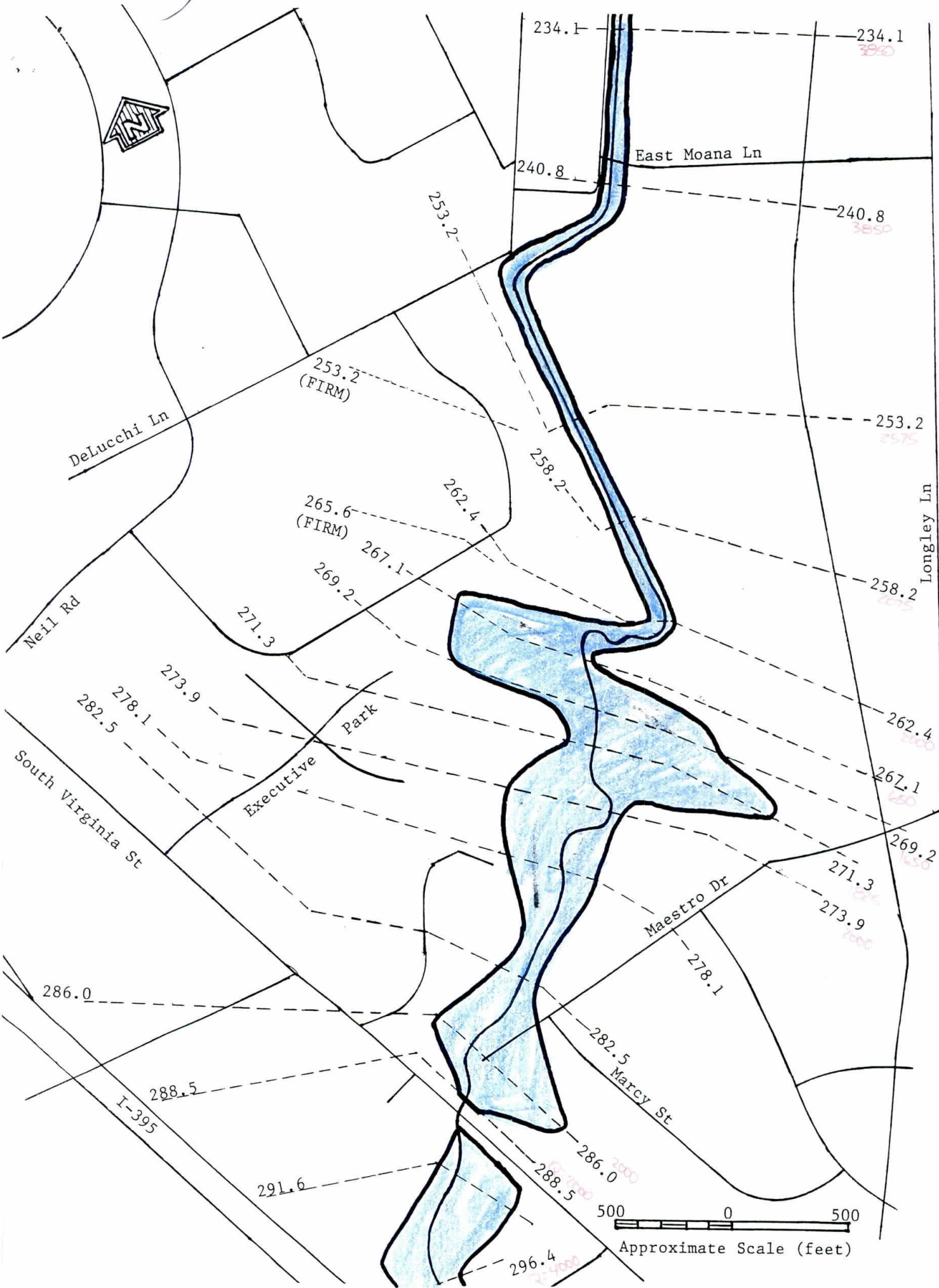


500 0 500
Approximate Scale (feet)



267.1





 * WATER SURFACE PROFILES *
 * VERSION OF SEPTEMBER 1988 *
 * ERROR: 01,02,03 *
 * UPDATED: SEPTEMBER 1989 *
 * RUN DATE 1/14/94 TIME 10:40:25 *

 * U.S. ARMY CORPS OF ENGINEERS *
 * THE HYDROLOGIC ENGINEERING CENTER *
 * 609 SECOND STREET, SUITE D *
 * DAVIS, CALIFORNIA 95616-4687 *
 * (916) 756-1104 *

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END OF BANNER
 1 1/14/94 10:40:25

PAGE 1

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

THIS RUN EXECUTED 1/14/94 10:40:25

 ERROR CORR - 01,02,03
 MODIFICATION -

T1 DRY CREEK - APPRAL RESOLUTION
 T2 MAIN.DAT
 T3 BLUE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	RVIMS	Q	WSKL	FQ
0	2	0	0	0	0	0	0	0	4425.09	0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FW	ALLDC	IBW	CRWIM	ITRACE
-1	0	-1								
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38	27	43	1	28	13	14	42		
NC	.2	.03	.033	.1	.3					
QT	1	3850								
ET		9.1								
X1	217.7	16	1564.8	1670.4	0	0	0		1564.8	1670.4
GR	4427.5	0.0	4428.5	280.0	4428.5	450	4426.5	710	4425.7	930
GR	4425.8	1200.0	4425.2	1212.4	4424.8	1221.4	4423.9	1383.4	4423.7	1481.8
GR	4426.0	1564.8	4416.3	1593.5	4415.1	1606.2	4414.7	1628.1	4416.6	1643.9
GR	4425.3	1670.4								
NC	.035	.035	.03							
ET		9.1								
X1	225.7	12	623.1	723.3	800	800	800		623.1	723.3
GR	4428.0	0.0	4427.6	139.6	4427.8	239.6	4428.9	250.5	4428.7	271.4
GR	4428.5	357.0	4428.2	472.5	4427.9	623.1	4418.8	658.0	4419.1	685.2
GR	4420.9	693.5	4427.7	723.3						
ET		9.1								
X1	234.1	48	822.8	922.1	840	840	840		822.8	922.1
GR	4432.6	0.0	4433.7	21.2	4432.6	32.2	4433.8	44.7	4434.1	60.3
GR	4435.5	88.7	4432.6	116.0	4432.1	259.3	4432.3	356.9	4432.1	429.2
GR	4433.2	447.5	4433.2	465.6	4432.1	472.6	4432.3	551.9	4432.5	696.3
GR	4431.9	822.8	4423.7	844.3	4422.7	878.5	4425.3	893.1	4433.4	922.1
GR	4433.3	949.7	4432.3	959.2	4438.3	975.5	4437.9	1011.6	4431.4	1022.9
GR	4431.7	1131.3	4431.2	1240.8	4432.9	1259.7	4427.3	1271.1	4431.2	1286.0
GR	4430.5	1289.2	4431.7	1405.6	4432.0	1566.9	4432.5	1692.8	4428.5	1700.3
GR	4433.9	1707.7	4433.6	1727.7	4432.2	1740.8	4426.5	1747.8	4432.8	1756.6
GR	4432.1	1761.9	4431.9	1950.9	4431.6	2090.1	4427.9	2103.3	4429.7	2111.8
GR	4434.3	2129.2	4434.0	2142.7	4434.6	2174.0				

1 1/14/94 10:40:25

PAGE 2

NC	.045	.040	.035	.1	.3					
ET		9.1								
X1	240.8	53	553	655.8	670	670	670		553	655.8
GR	4436.7	0.0	4434.0	13.6	4435.5	22.8	4435.6	75.3	4435.4	165.1
GR	4437.4	173.4	4437.3	200.1	4436.1	210.9	4435.3	354.3	4435.7	439.8
GR	4436.2	553.0	4427.6	578.1	4426.7	592.0	4426.5	614.8	4428.6	629.4
GR	4436.8	655.8	4435.9	675.2	4436.8	705.3	4436.8	811.0	4436.4	908.8
GR	4436.0	994.7	4435.3	1043.1	4436.8	1056.1	4436.8	1079.7	4436.5	1085.5
GR	4436.9	1175.4	4437.4	1291.9	4436.0	1371.9	4433.4	1378.2	4436.5	1385.2
GR	4437.3	1411.8	4437.0	1422.2	4437.6	1433.5	4437.3	1445.5	4436.8	1461.3
GR	4437.3	1481.4	4433.6	1490.1	4436.1	1496.3	4435.9	1598.0	4435.4	1684.4
GR	4437.1	1691.0	4432.7	1703.9	4437.6	1718.9	4436.2	1729.1	4436.0	1773.0
GR	4431.7	1784.9	4431.0	1832.9	4430.2	1887.2	4435.2	1894.4	4435.1	1915.0
GR	4435.8	1921.4	4436.1	1938.6	4436.6	1974.4				

SECNO	DEPTH	CWSKL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK	ELKV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	ENL	ENCH	ENR	WTN	ELMIN	SSTA	
SLOPE	KLOBL	KLCH	KLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCRV= .100 CKEV= .300
 *SECNO 253.200

3301 EV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	817.4	917.8	TYPE=	1	TARGET=	100.400
253.200	6.55	4439.85	.00	.00	4440.55	.70
2575.	0.	2575.	0.	0.	383.	0.
.12	.00	6.72	.00	.000	.035	.000
.003343	450.	1240.	1240.	3	0	0

*SECNO 258.200

3470 ENCROACHMENT STATIONS=	1186.1	1298.6	TYPE=	1	TARGET=	112.500
258.200	5.61	4441.61	.00	.00	4442.22	.61
2075.	0.	2075.	0.	0.	330.	0.
.14	.00	6.28	.00	.000	.035	.000
.003291	1000.	500.	1750.	3	0	0

*SECNO 262.400

3470 ENCROACHMENT STATIONS=	1831.7	2400.0	TYPE=	1	TARGET=	568.300
262.400	5.11	4443.11	.00	.00	4443.77	.66
2000.	0.	2000.	0.	0.	307.	0.
.16	.00	6.52	.00	.000	.035	.000
.004108	300.	420.	430.	2	0	0

*SECNO 267.100

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSELK,CWSKL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	1257.2	1891.6	TYPE=	1	TARGET=	634.400
267.100	3.22	4447.72	4447.72	.00	4447.91	.20
650.	378.	270.	5.	246.	52.	3.
.20	1.84	5.21	1.48	.050	.035	.045
.006543	260.	470.	180.	20	17	0

SECNO	DEPTH	CWSKL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK	ELKV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	ENL	ENCH	ENR	WTN	ELMIN	SSTA	
SLOPE	KLOBL	KLCH	KLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 269.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.02

3470 ENCROACHMENT STATIONS=	1634.8	2832.0	TYPE=	1	TARGET=	1197.200
269.200	2.78	4448.78	.00	.00	4448.92	.14
1650.	240.	542.	868.	189.	119.	436.
.22	1.27	4.55	1.99	.050	.035	.045
.004635	190.	210.	190.	3	0	0

*SECNO 271.300

3470 ENCROACHMENT STATIONS=	2416.5	3333.0	TYPE=	1	TARGET=	916.500
271.300	3.68	4449.68	.00	.00	4449.79	.10
1825.	150.	263.	1413.	79.	55.	708.
.24	1.88	4.78	1.99	.050	.035	.045
.003912	210.	210.	200.	1	0	0

*SECNO 273.900

3685 20 TRIALS ATTEMPTED WSELK,CWSKL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	2313.8	3005.9	TYPE=	1	TARGET=	692.100
273.900	4.76	4451.76	4451.76	.00	4452.34	.58
2000.	682.	1297.	21.	290.	175.	12.
.25	2.35	7.41	1.84	.050	.035	.045
.006844	210.	260.	220.	20	11	0

1490 NH CARD USED
 *SECNO 278.100

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

3470 ENCROACHMENT STATIONS=	2739.3	3238.9	TYPE=	1	TARGET=	499.600
278.100	4.71	4453.71	.00	.00	4453.92	.21
2000.	160.	1832.	8.	122.	483.	10.
.28	1.31	3.79	.84	.050	.035	.045
.002520	300.	420.	310.	2	0	0

SECNO	DEPTH	CWSKL	CRWS	WSLK	EG	EV	EL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 282.500

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS-	2920.9	3748.6	TYPE-	1	TARGET-	827.700
282.500	3.91	4455.91	4455.91	.00	4456.95	1.04 2.55 .25 4455.80
2000.	0.	2000.	0.	0.	244.	0. 64. 29. 4456.00
.30	.98	8.19	.00	.035	.045	.000 .000 4452.00 3076.42
.024873	430.	440.	520.	3	8	0 .00 .132.21 3208.63

CHEV= .300 CHEV= .500
*SECNO 286.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

3470 ENCROACHMENT STATIONS-	2450.0	3600.0	TYPE-	1	TARGET-	1150.000
286.000	7.07	4460.07	4458.11	.00	4460.74	.67 3.67 .11 4460.00
2000.	4.	1987.	9.	12.	302.	28. 67. 33. 4460.00
.31	.33	6.58	.34	.050	.042	.050 .000 4453.00 2543.31
.004734	620.	400.	400.	9	11	0 .00 663.38 3206.69

CHEV= .400 CHEV= .800
*SECNO 288.500

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3470 ENCROACHMENT STATIONS-	2050.0	2750.0	TYPE-	1	TARGET-	700.000
288.500	7.48	4461.08	.00	.00	4461.60	.52 .80 .06 4453.60
2000.	163.	1659.	177.	47.	269.	50. 69. 35. 4453.60
.33	3.50	6.16	3.54	.045	.045	.045 .000 4453.60 2401.53
.002380	220.	250.	180.	2	0	0 .00 61.83 2463.36

CHEV= .400 CHEV= .800
*SECNO 288.500

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

SECNO	DEPTH	CWSKL	CRWS	WSLK	EG	EV	EL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 4456.67 , NOT 4461.08 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	IK	IKOR	COFQ	EDLEN	BWC	BWP	BARRA	SS	ELCHU	ELCHD
1.10	2.04	2.80	.00	36.00	9.30	190.00	.00	4455.00	4453.60	

*SECNO 291.600
ETCARD BRIDGE STENCL= 920.00 STENCR= 1240.00

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.66

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BARRA	TRAPZOID	ELLC	ELTRD	WEIRLN
4464.59	4463.81	.00	0.	2000.	190.	187.	4462.00	4465.20	0.

3470 ENCROACHMENT STATIONS-	920.0	1240.0	TYPE-	1	TARGET-	320.000
291.600	9.29	4464.29	.00	.00	4464.59	.30 2.99 .00 4455.00
2000.	129.	1613.	258.	91.	334.	165. 72. 35. 4455.00
.35	1.42	4.82	1.57	.050	.025	.045 .000 4455.00 920.45
.000337	420.	310.	290.	2	0	0 .00 114.34 1034.79

CHEV= .100 CHEV= .300
*SECNO 296.400

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSKL,CWSKL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS-	1000.0	1351.6	TYPE-	1	TARGET-	351.600
296.400	4.78	4467.28	4467.28	.00	4468.42	1.14 .77 .25 4464.00
4000.	1307.	1870.	823.	225.	177.	117. 78. 37. 4464.90
.36	5.80	10.57	7.05	.040	.035	.040 .000 4462.50 1116.96
.010160	510.	480.	400.	20	11	0 .00 233.26 1351.60

0
1

SECNO	DEPTH	CWSKL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACE	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XML	XRCH	XPR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICOMT	CORAR	TOPWID	ENDST	

*SECNO 300.400

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS-	1.0	320.0	TYPE-	1	TARGET-	319.000
300.400	6.66	4470.26	.00	.00	4471.98	1.72 3.39
3900.	0.	3900.	0.	0.	370.	0. 82.
.37	.00	10.54	.00	.000	.035	.000 4463.60 100.19
.007266	380.	400.	400.	2	0	0 .00 71.75 171.94

0
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 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

THIS RUN EXECUTED 1/14/94 10:40:59

ERROR CORR - 01,02,03
 MODIFICATION -

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

BLUE

SUMMARY PRINTOUT

SECNO	STENCL	Q	CWSKL	STENCR	QLOB	QCH	ELMIN
217.700	1564.80	3850.00	4425.09	1670.40	.00	3850.00	4414.70
* 225.700	623.10	3850.00	4426.03	723.30	.00	3850.00	4418.80
234.100	822.80	3850.00	4429.99	922.10	.00	3850.00	4422.70
240.800	553.00	3850.00	4433.38	655.80	.00	3850.00	4426.50
253.200	817.40	2575.00	4439.85	917.80	.00	2575.00	4433.30
258.200	1186.10	2075.00	4441.61	1298.60	.00	2075.00	4436.00
262.400	1831.70	2000.00	4443.11	2400.00	.00	2000.00	4438.00
* 267.100	1257.20	650.00	4447.72	1891.60	375.12	269.71	4444.50
* 269.200	1634.80	1650.00	4448.78	2832.00	240.08	542.06	4446.00
271.300	2416.50	1825.00	4449.68	3333.00	149.61	262.75	4446.00
* 273.900	2313.80	2000.00	4451.76	3005.90	681.52	1296.98	4447.00
* 278.100	2739.30	2000.00	4453.71	3238.90	159.92	1831.58	4449.00
* 282.500	2920.90	2000.00	4455.91	3748.60	.49	1999.51	4452.00
* 286.000	2450.00	2000.00	4460.07	3600.00	3.99	1986.72	4453.00
* 288.500	2050.00	2000.00	4461.08	2750.00	163.40	1659.50	4453.60
* 291.600	920.00	2000.00	4464.29	1240.00	128.92	1613.02	4455.00
* 296.400	1000.00	4000.00	4467.28	1351.60	1306.96	1870.31	4462.50

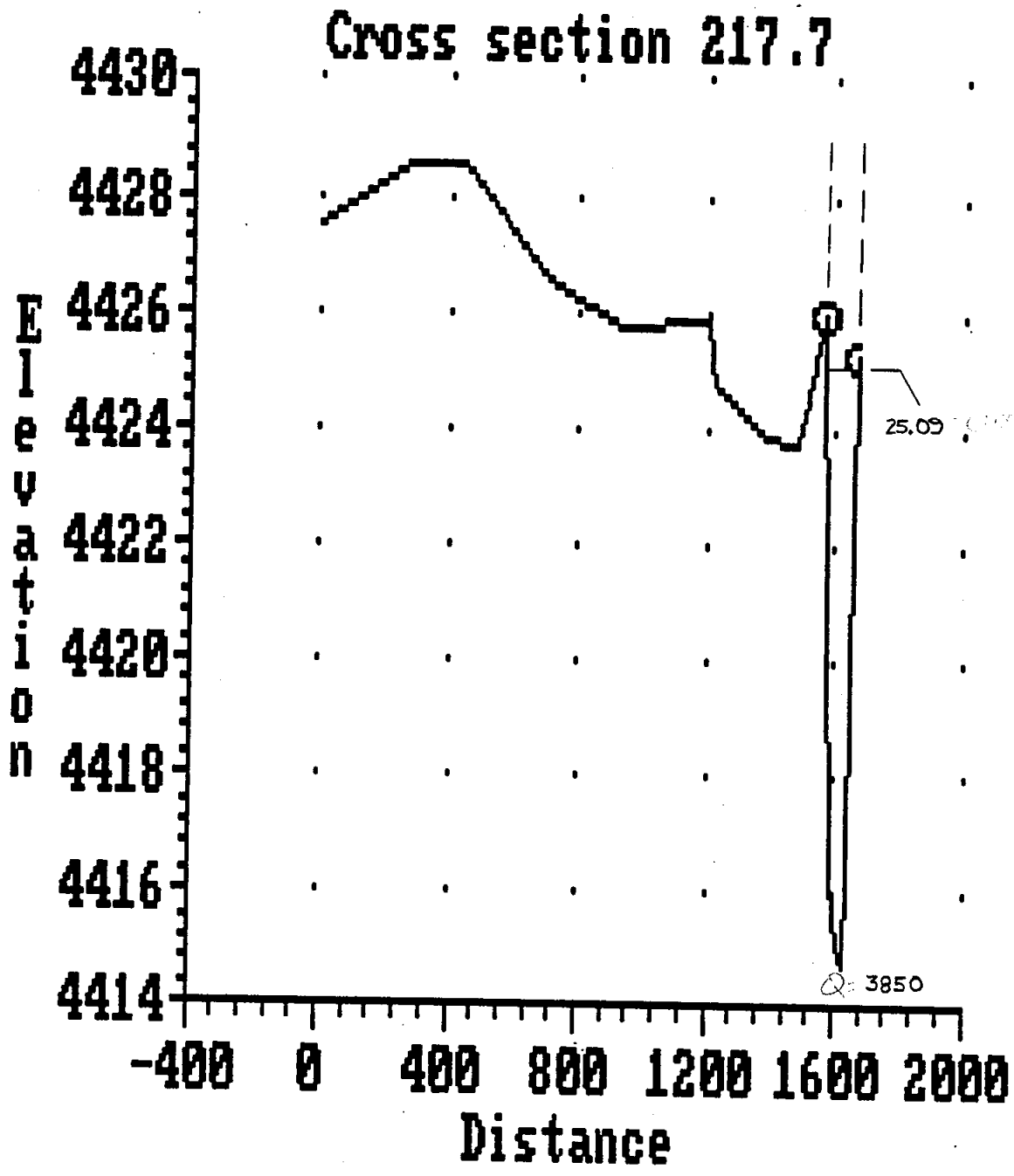
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SECNO	STENCL	Q	CWSKL	STENCR	QLOB	QCH	ELMIN
300.400	1.00	3900.00	4470.26	320.00	.00	3900.00	4463.60

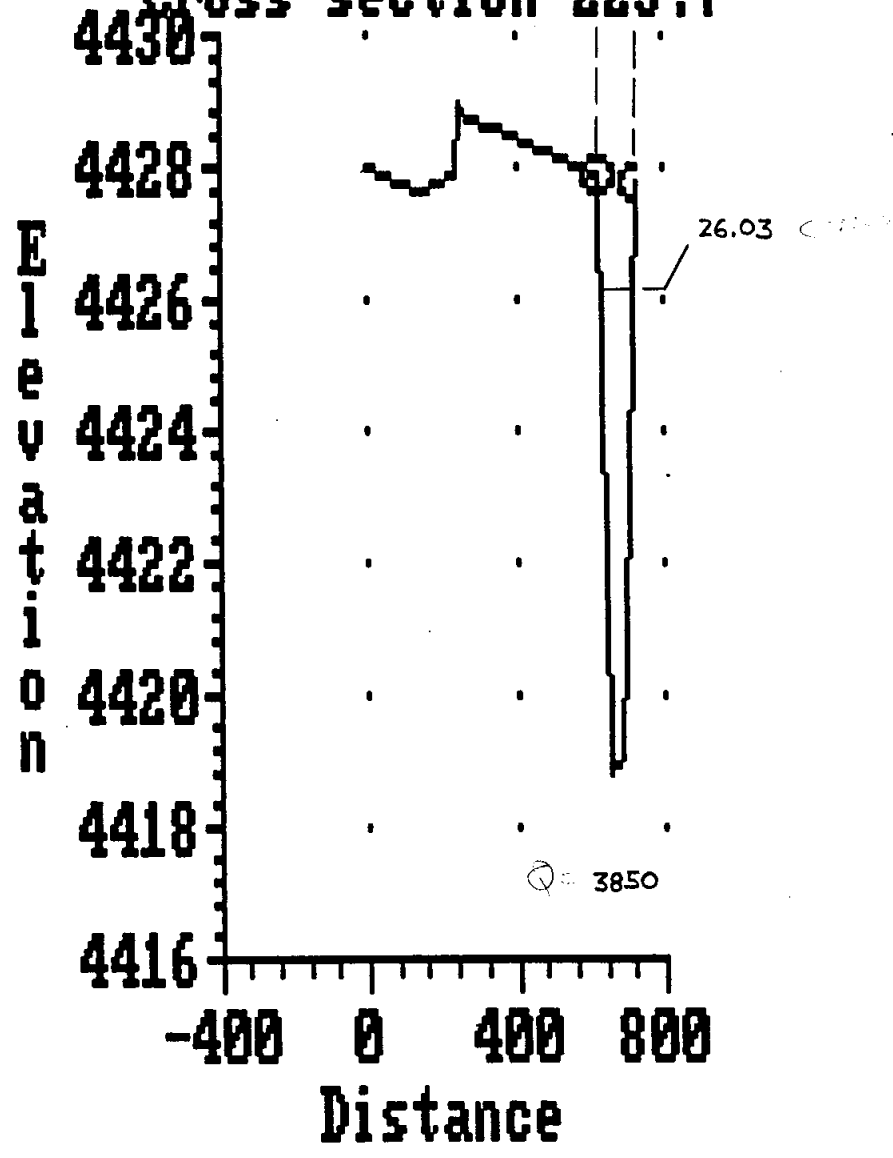
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SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO=	225.700	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	267.100	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	267.100	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	267.100	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=	269.200	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	273.900	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	273.900	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	273.900	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=	278.100	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	282.500	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	282.500	PROFILE=	1	MINIMUM SPECIFIC ENERGY
WARNING SECNO=	286.000	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	26.500	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	291.600	PROFILE=	1	HYDRAULIC JUMP D.S.
WARNING SECNO=	291.600	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	296.400	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	296.400	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	296.400	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL

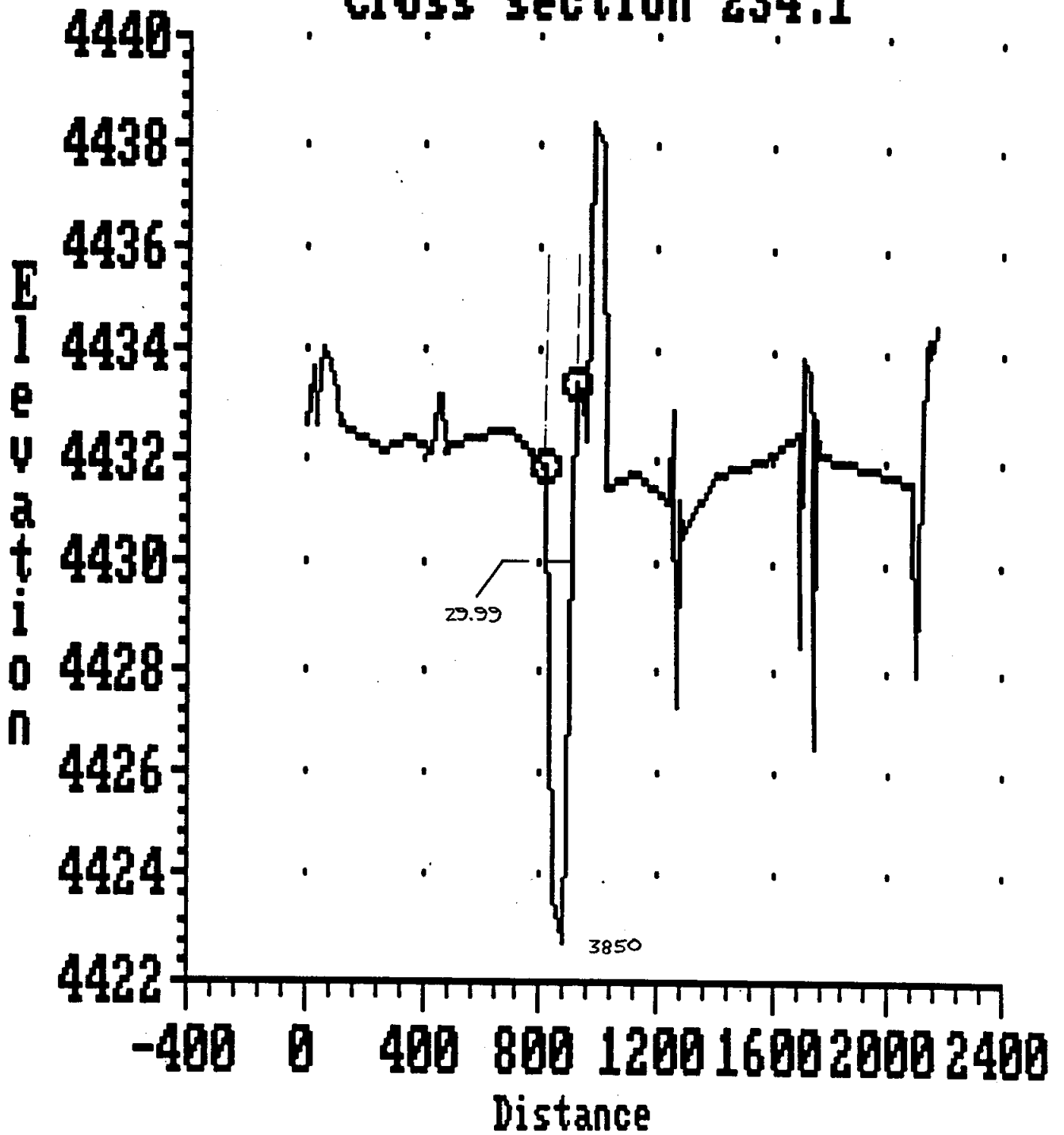


Cross section 225.7

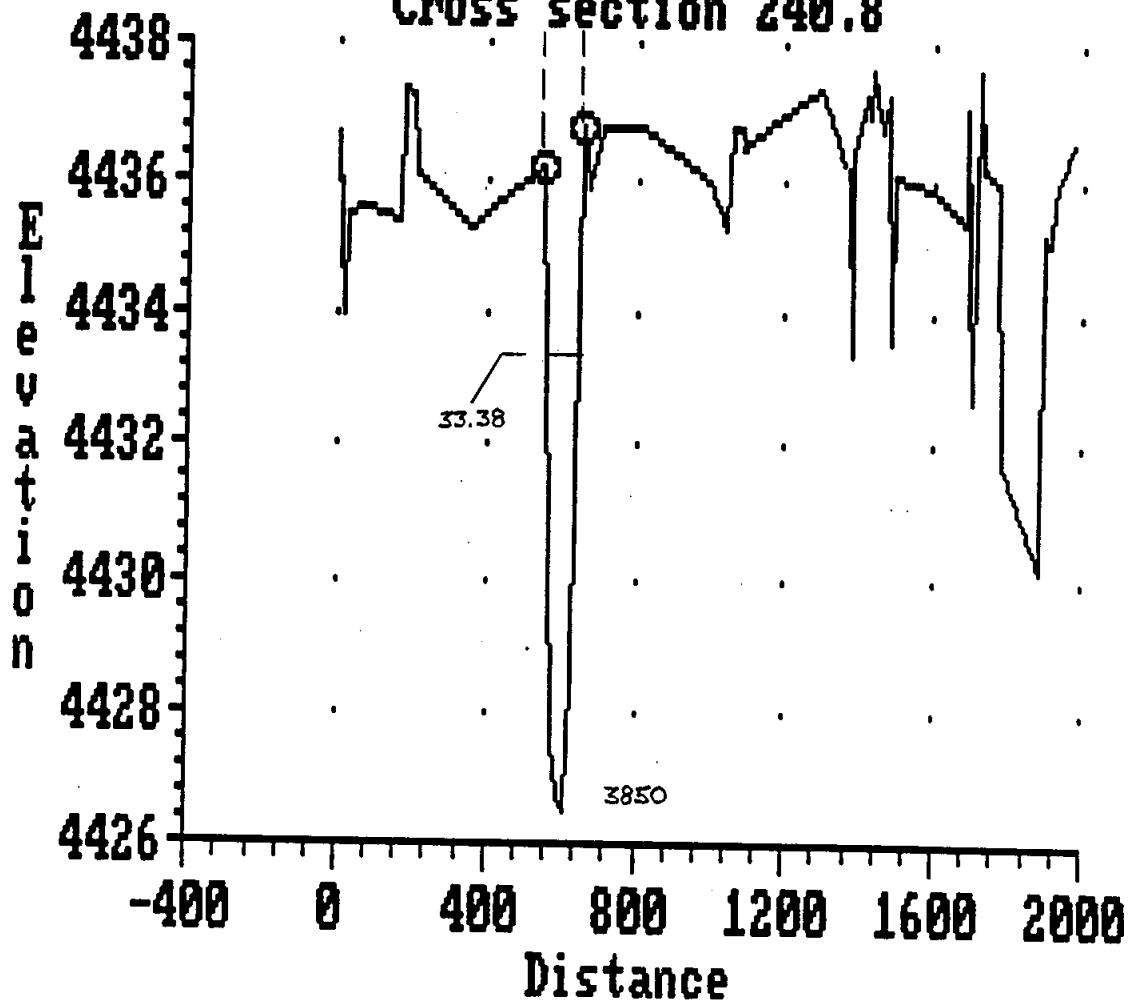


D. 122'

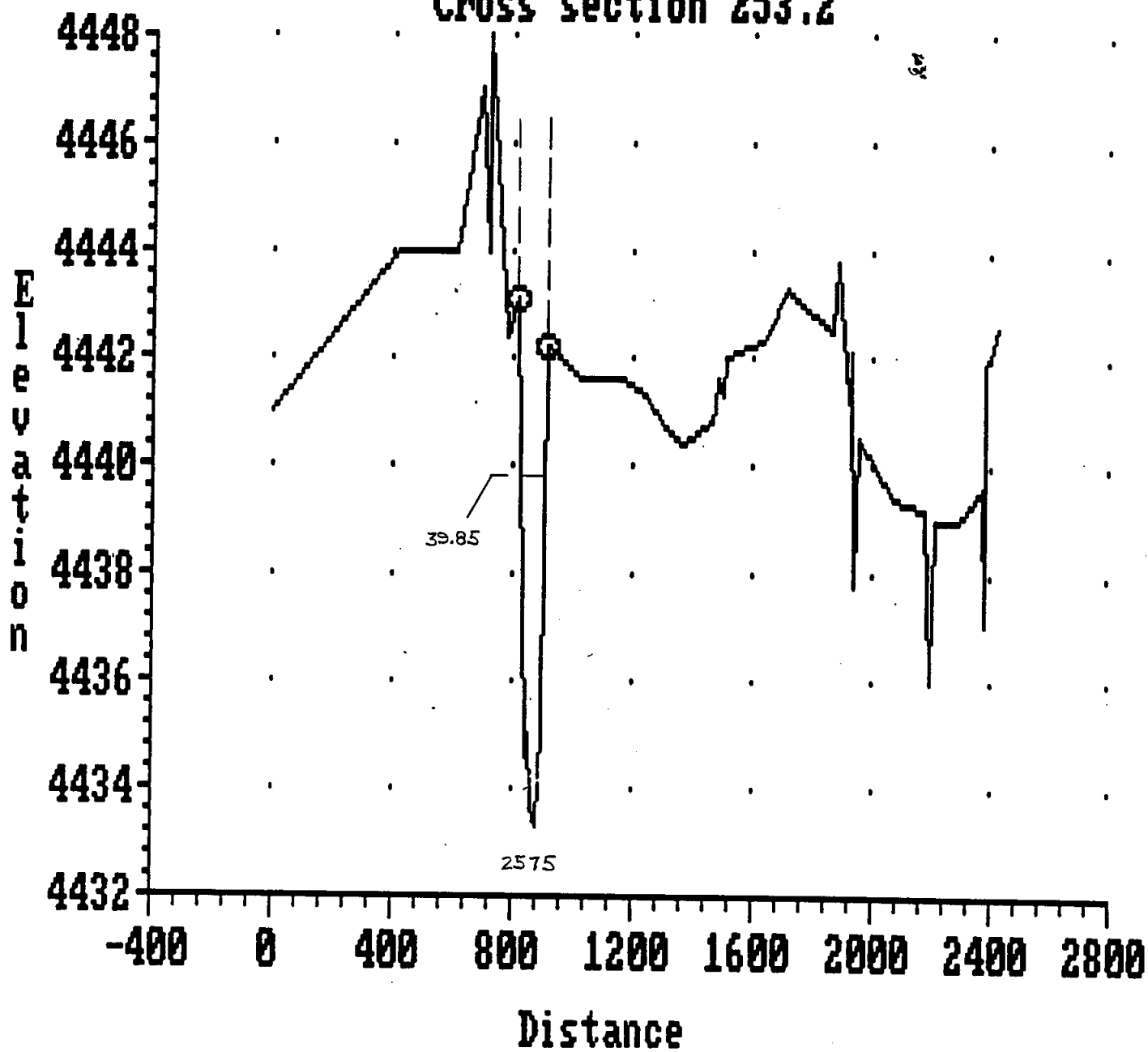
Cross section 234.1



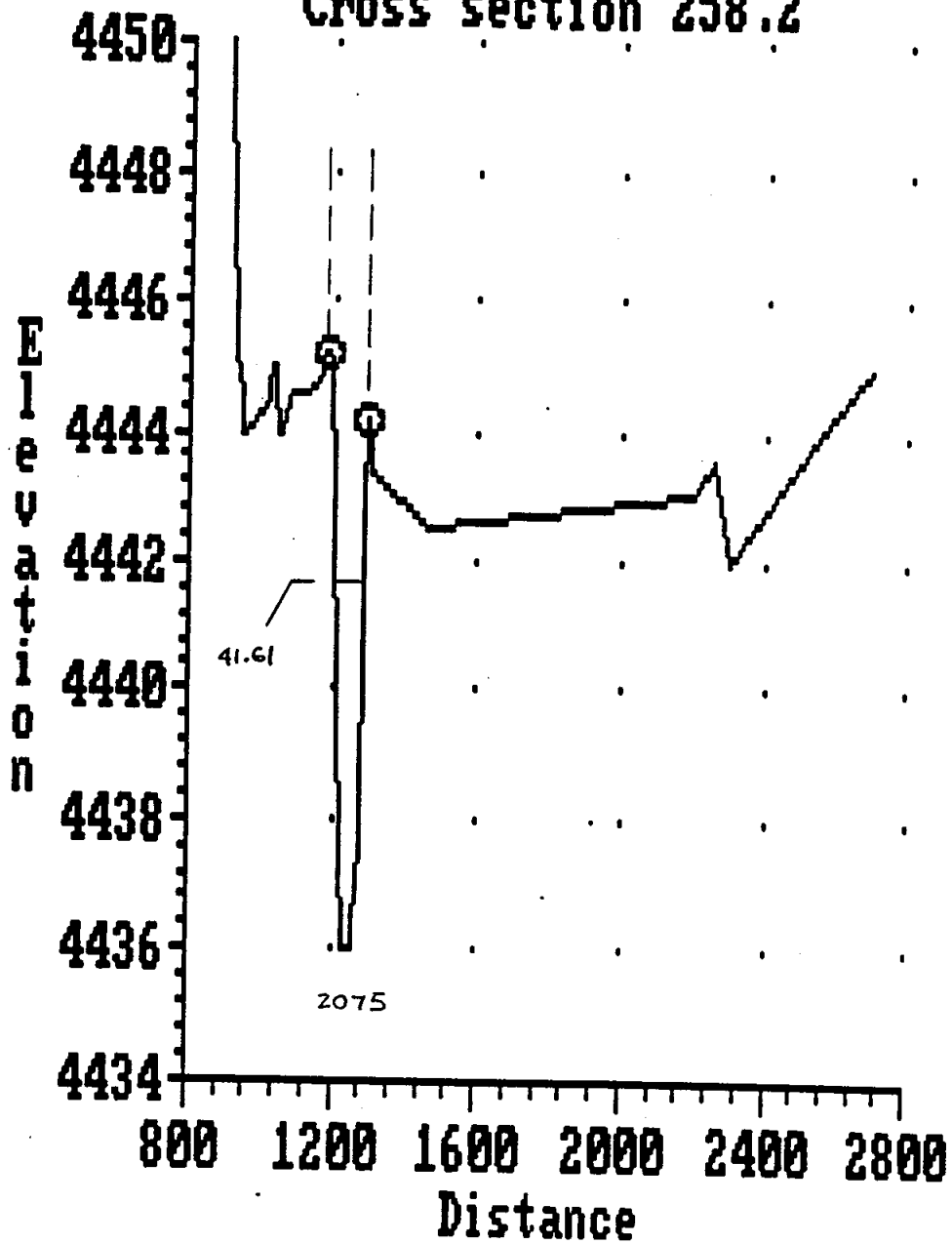
Cross section 240.8



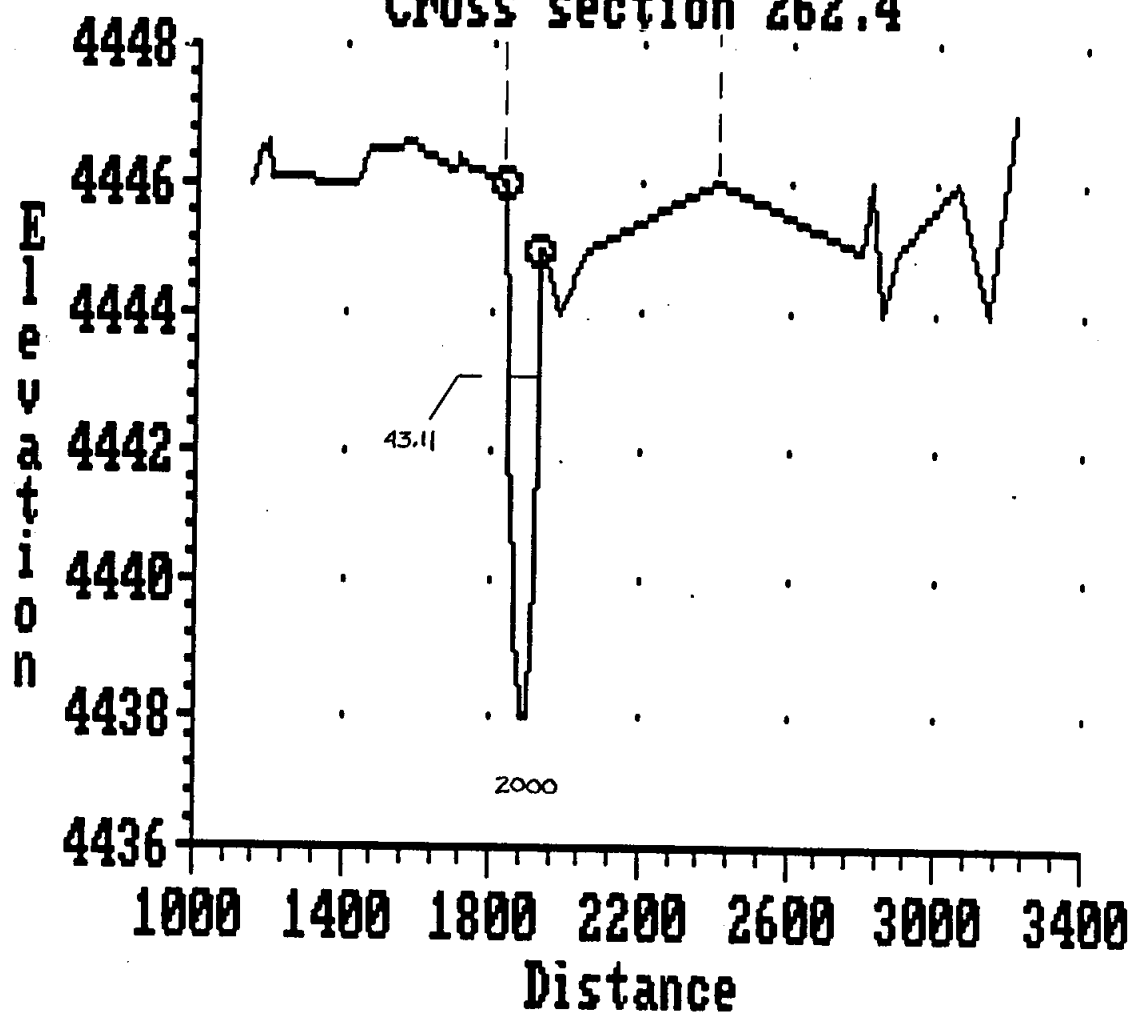
Cross section 253.2



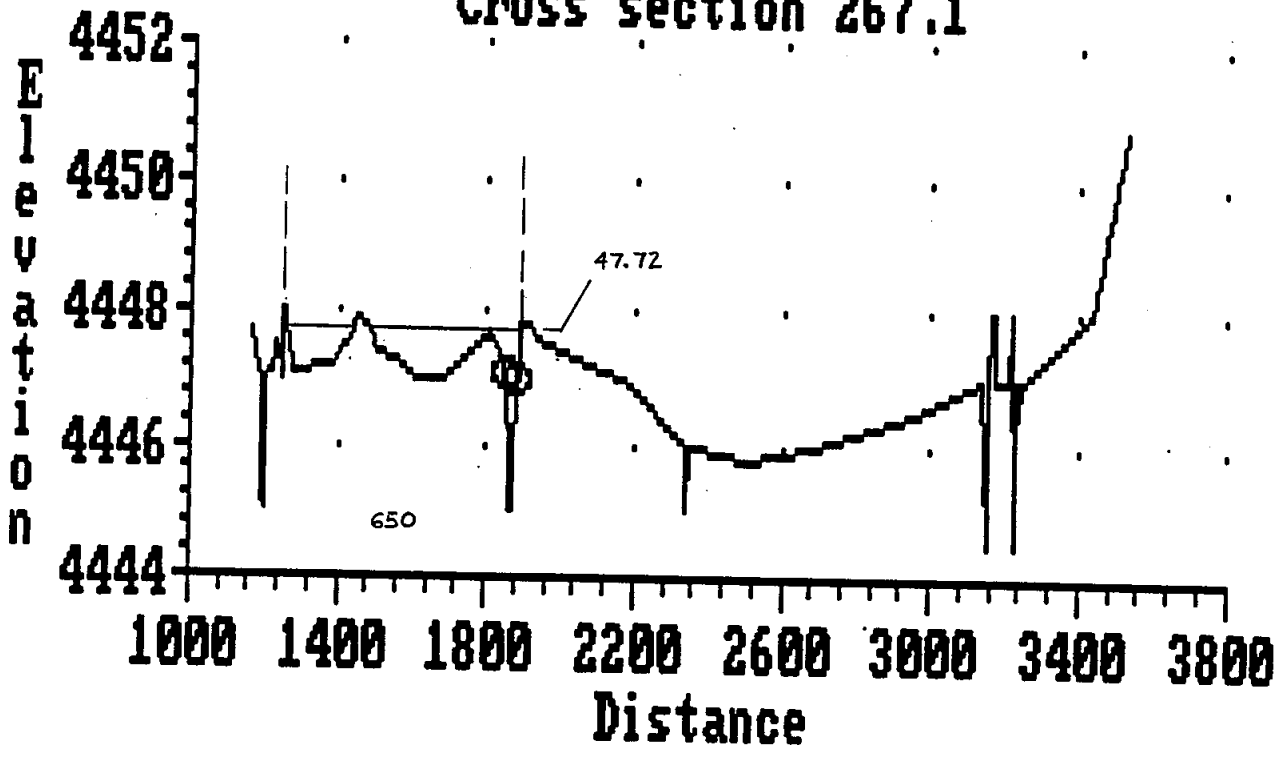
Cross section 258.2



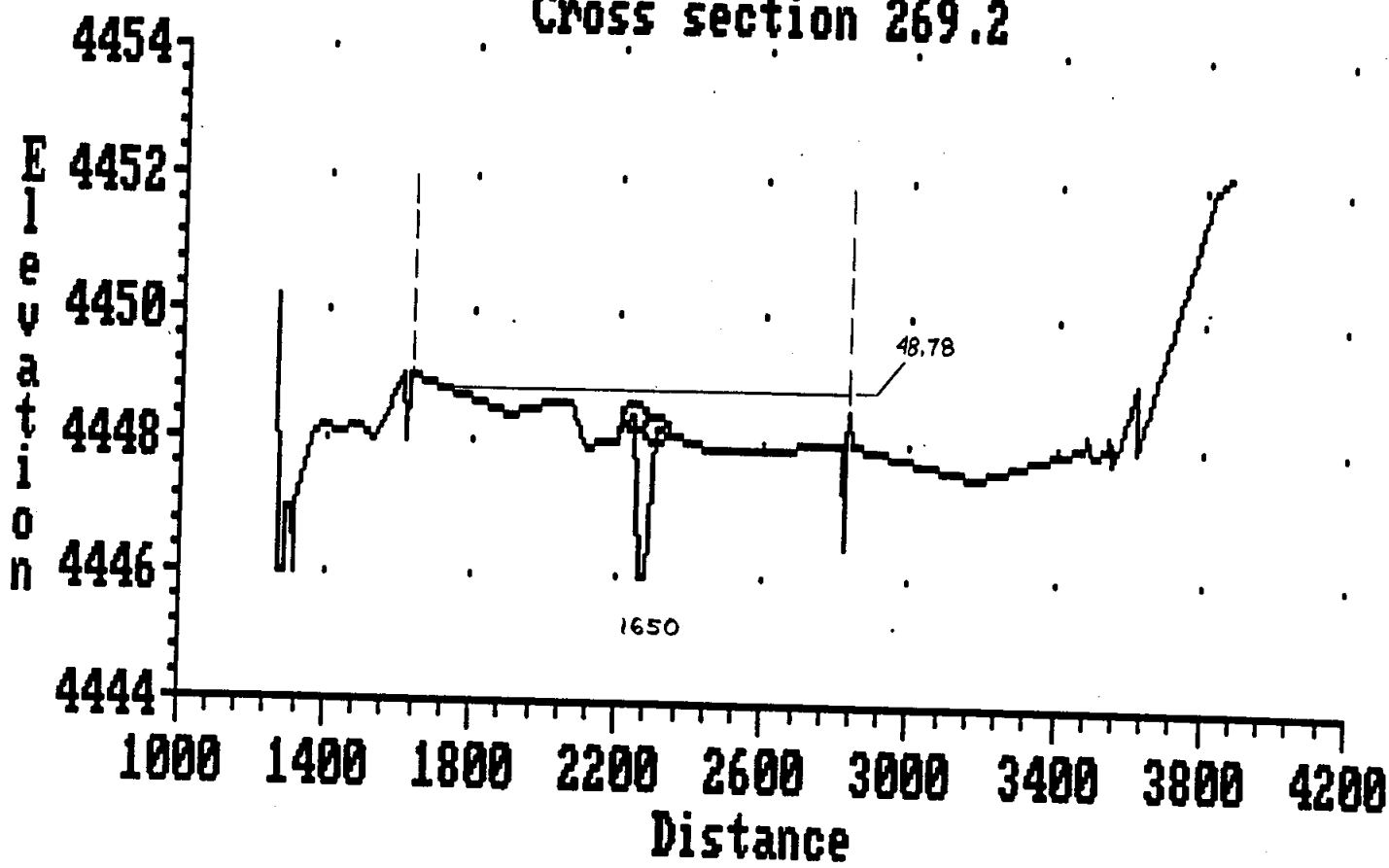
Cross section 262.4



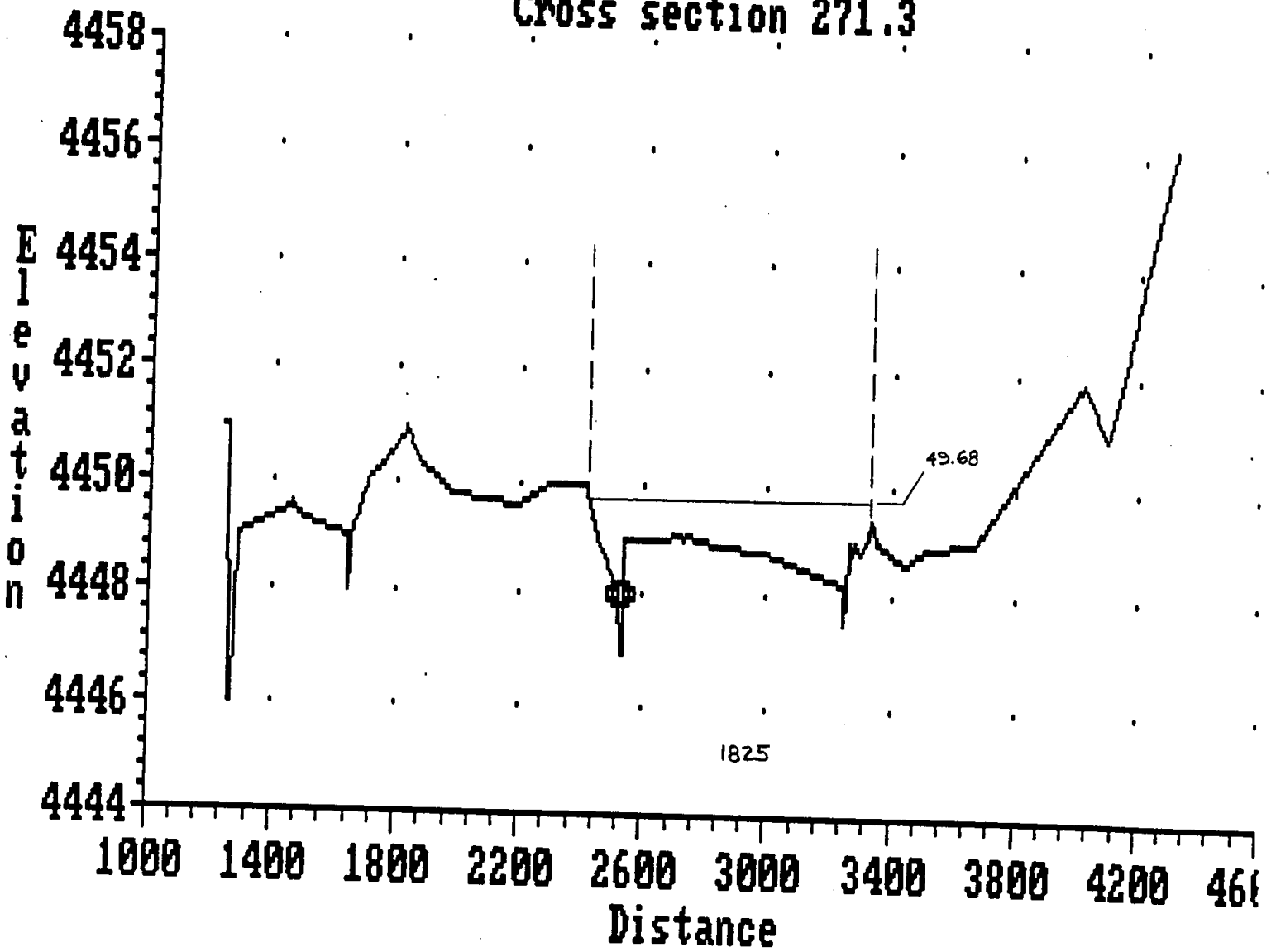
Cross section 267.1



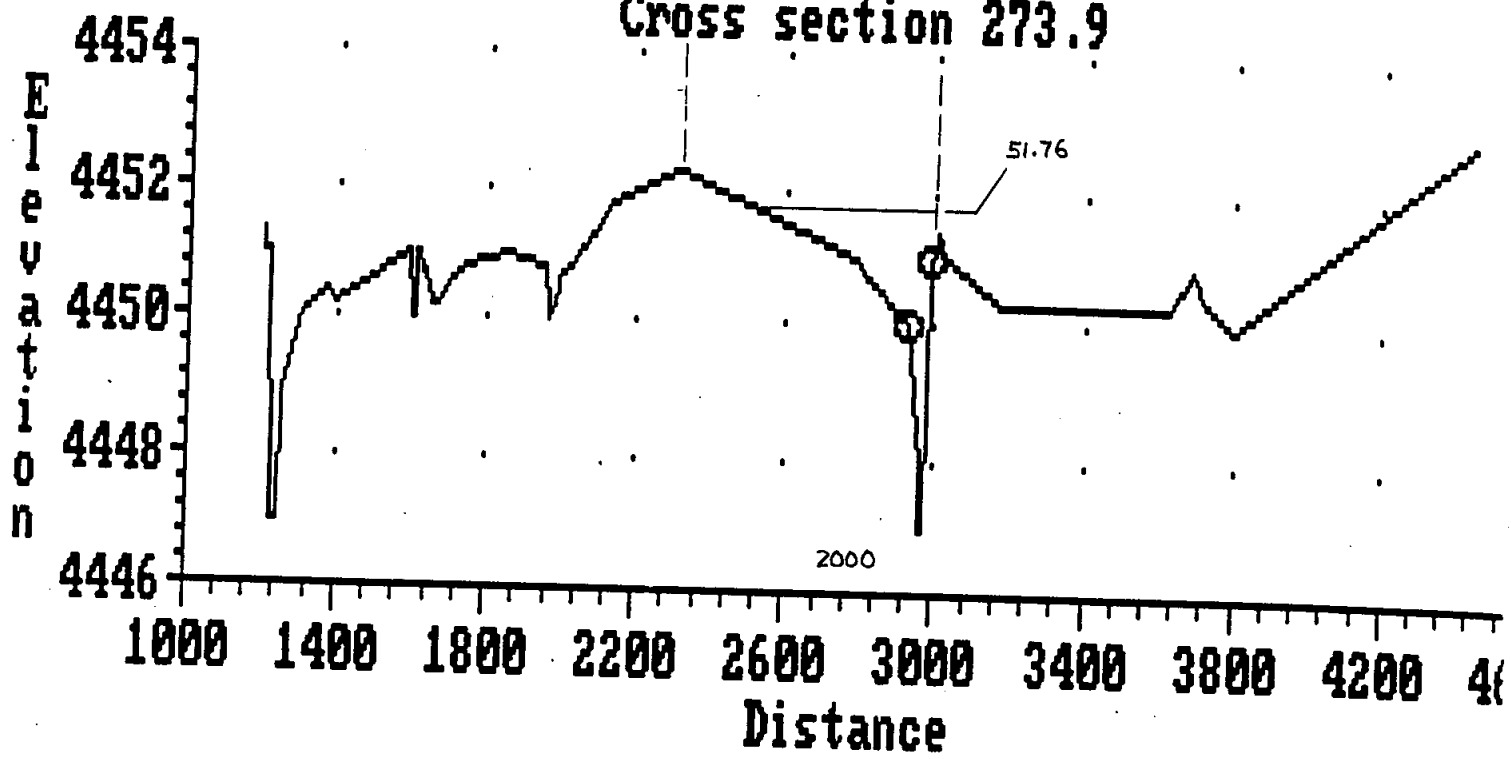
Cross section 269.2

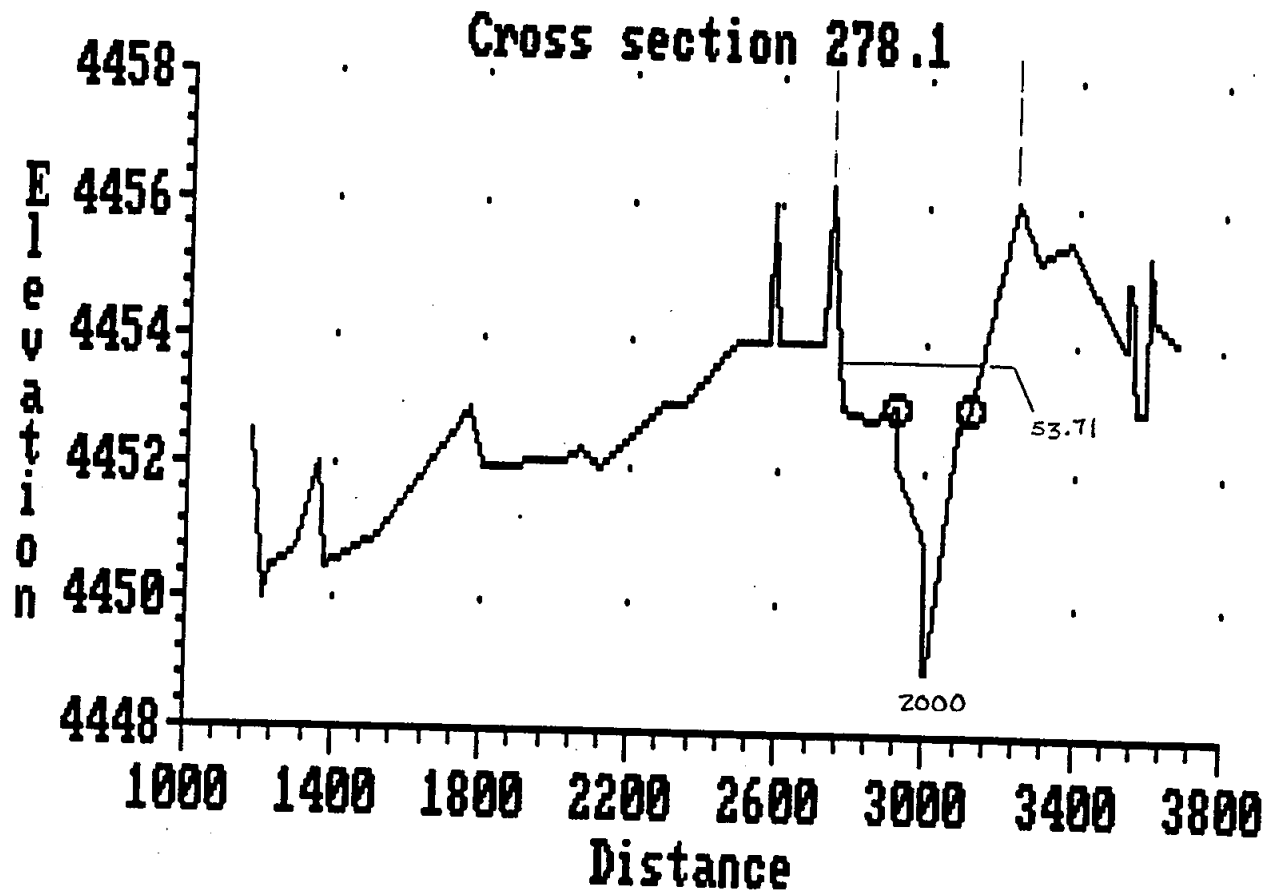


Cross section 271.3

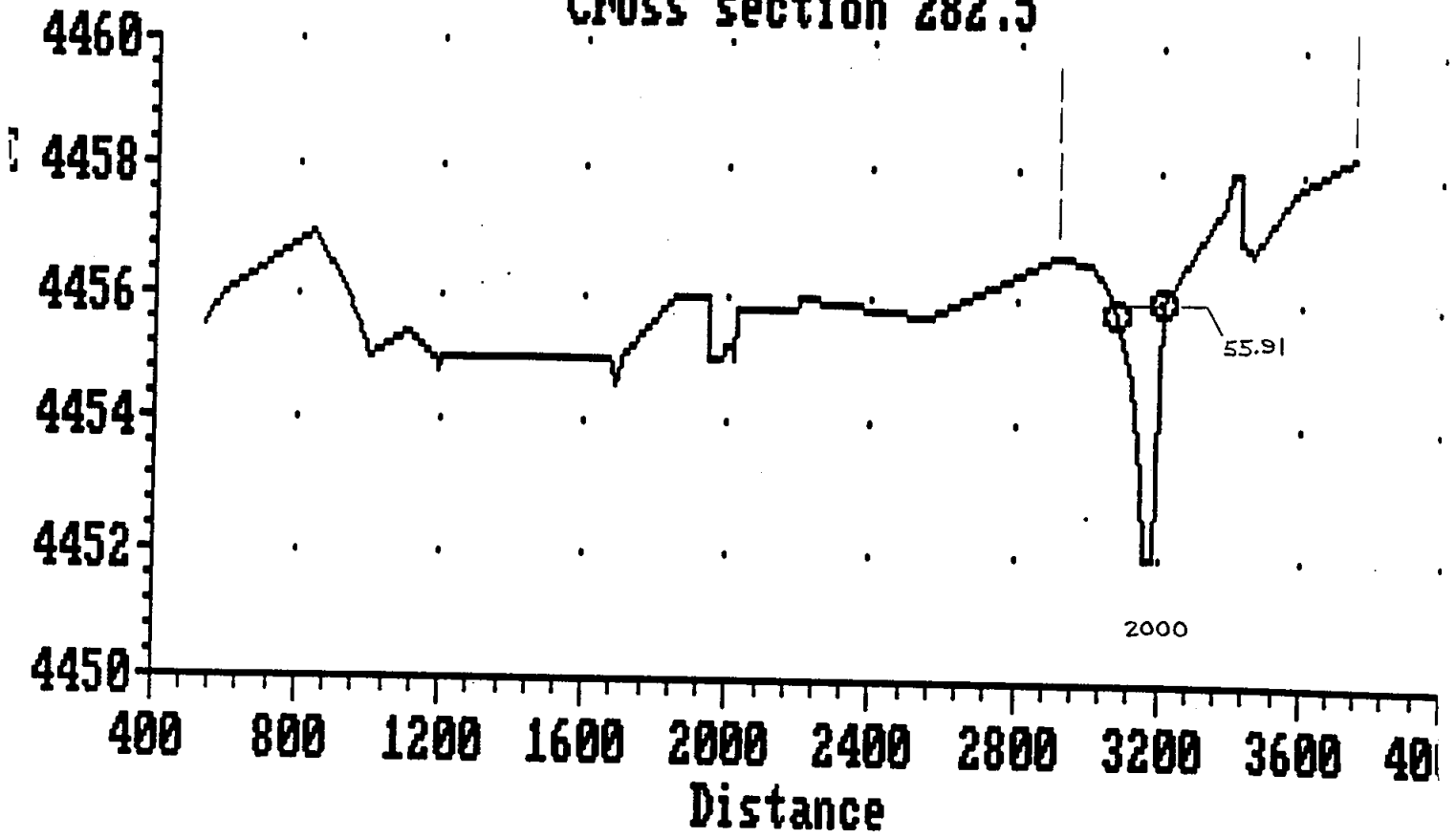


Cross section 273.9

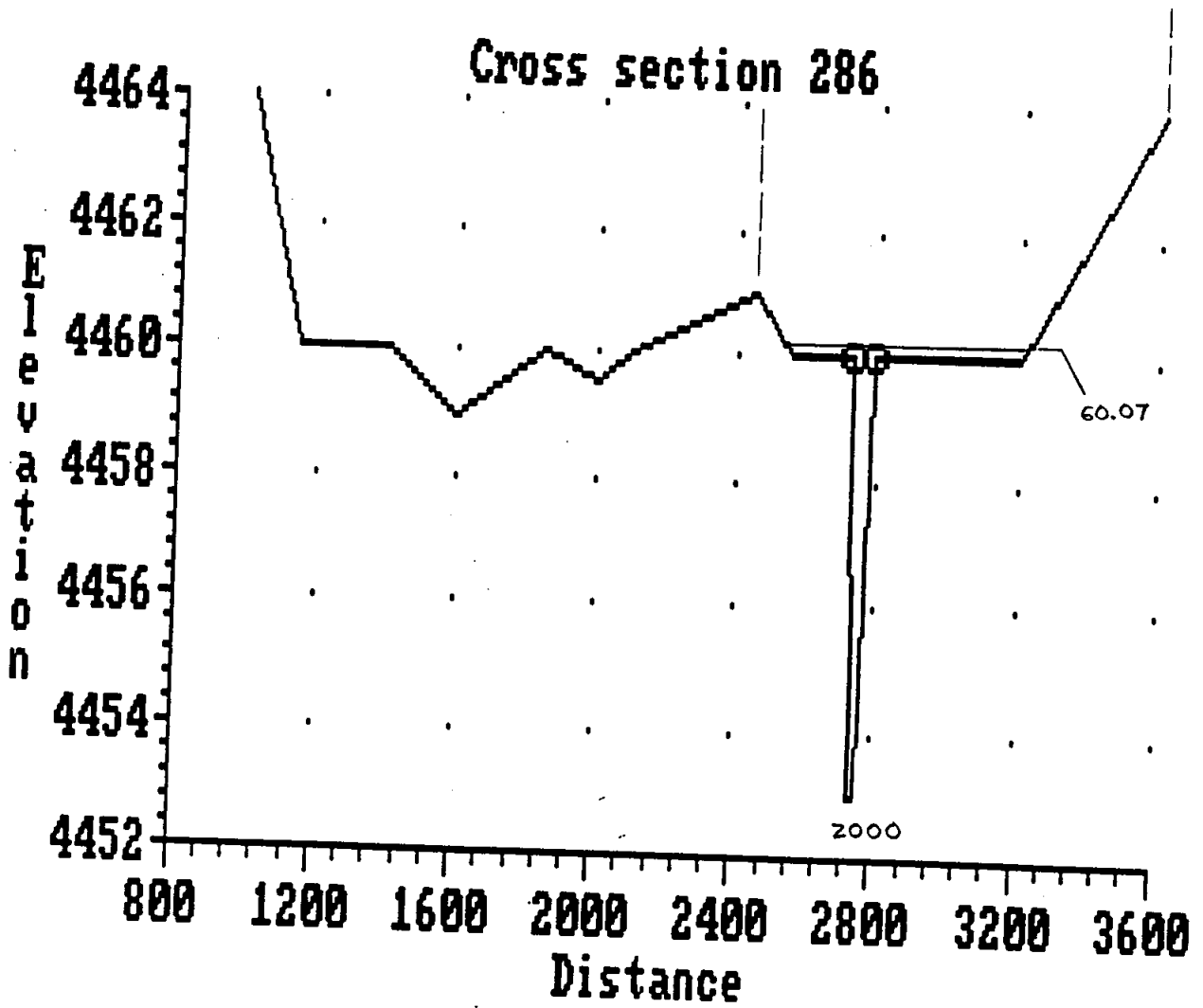




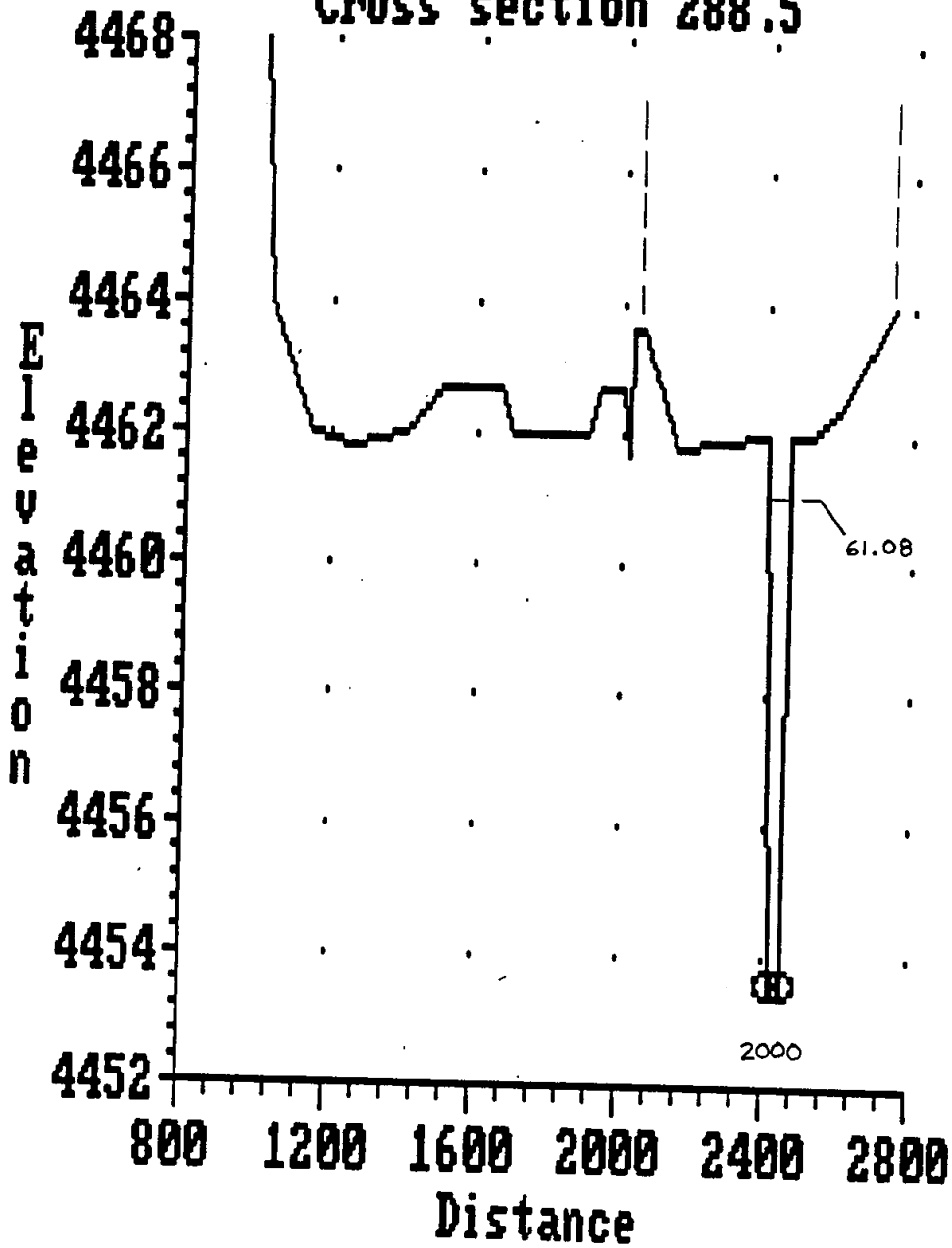
Cross section 282.5



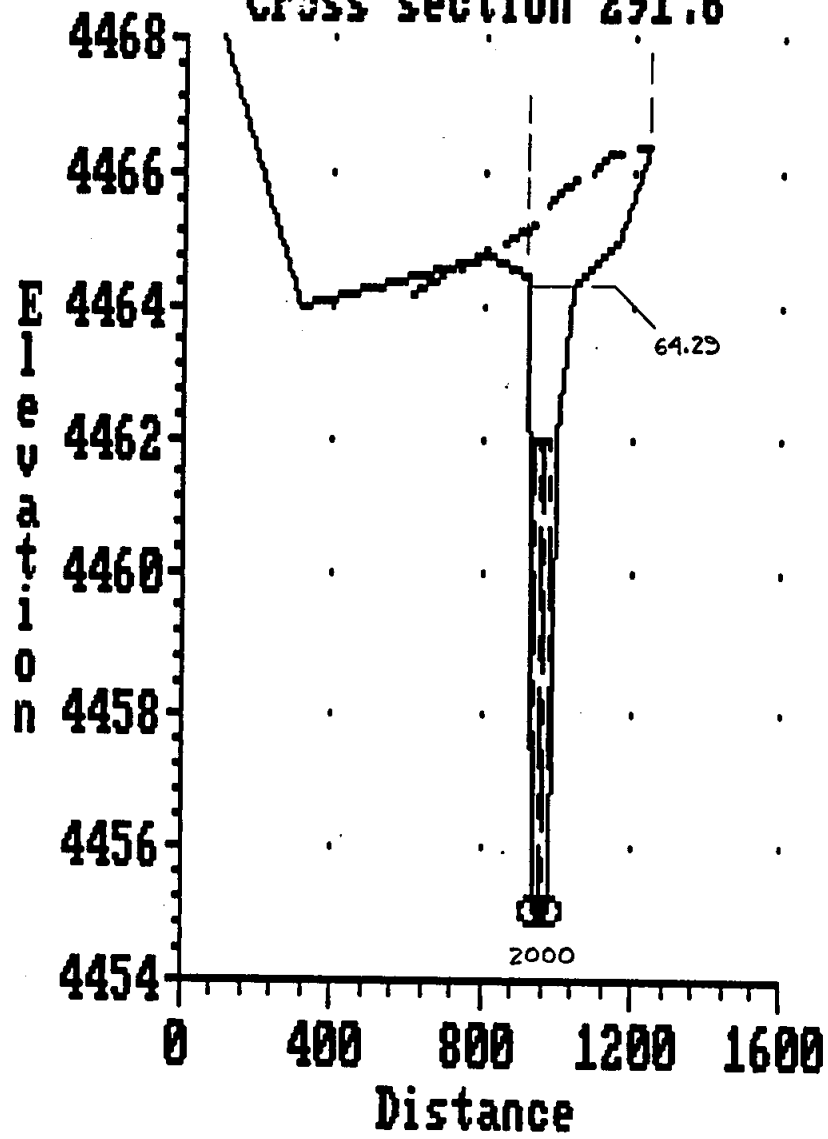
Cross section 286



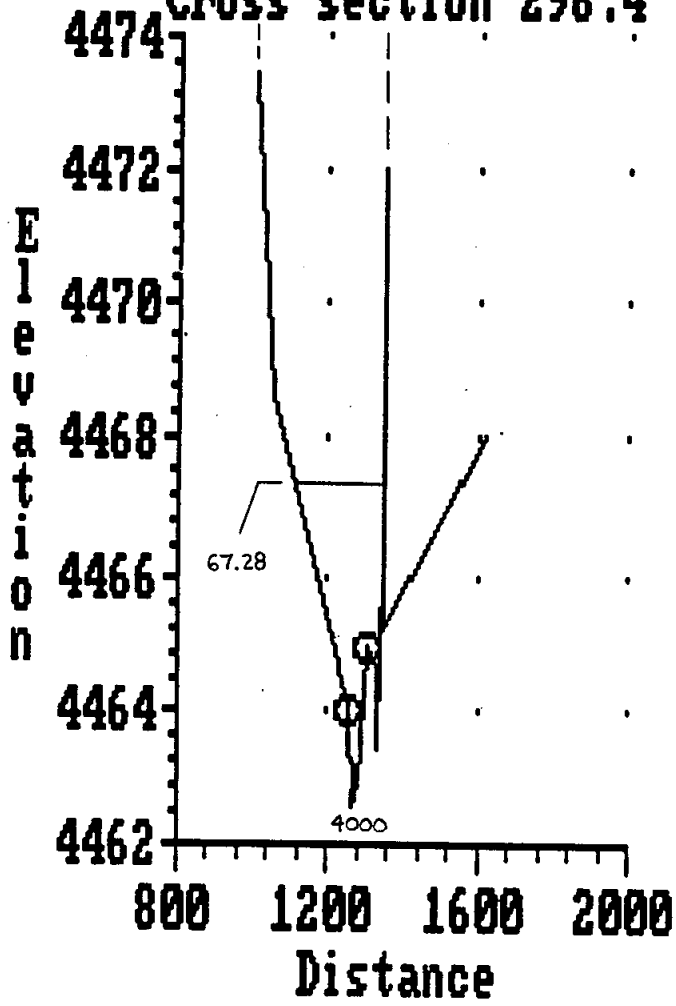
Cross section 288.5

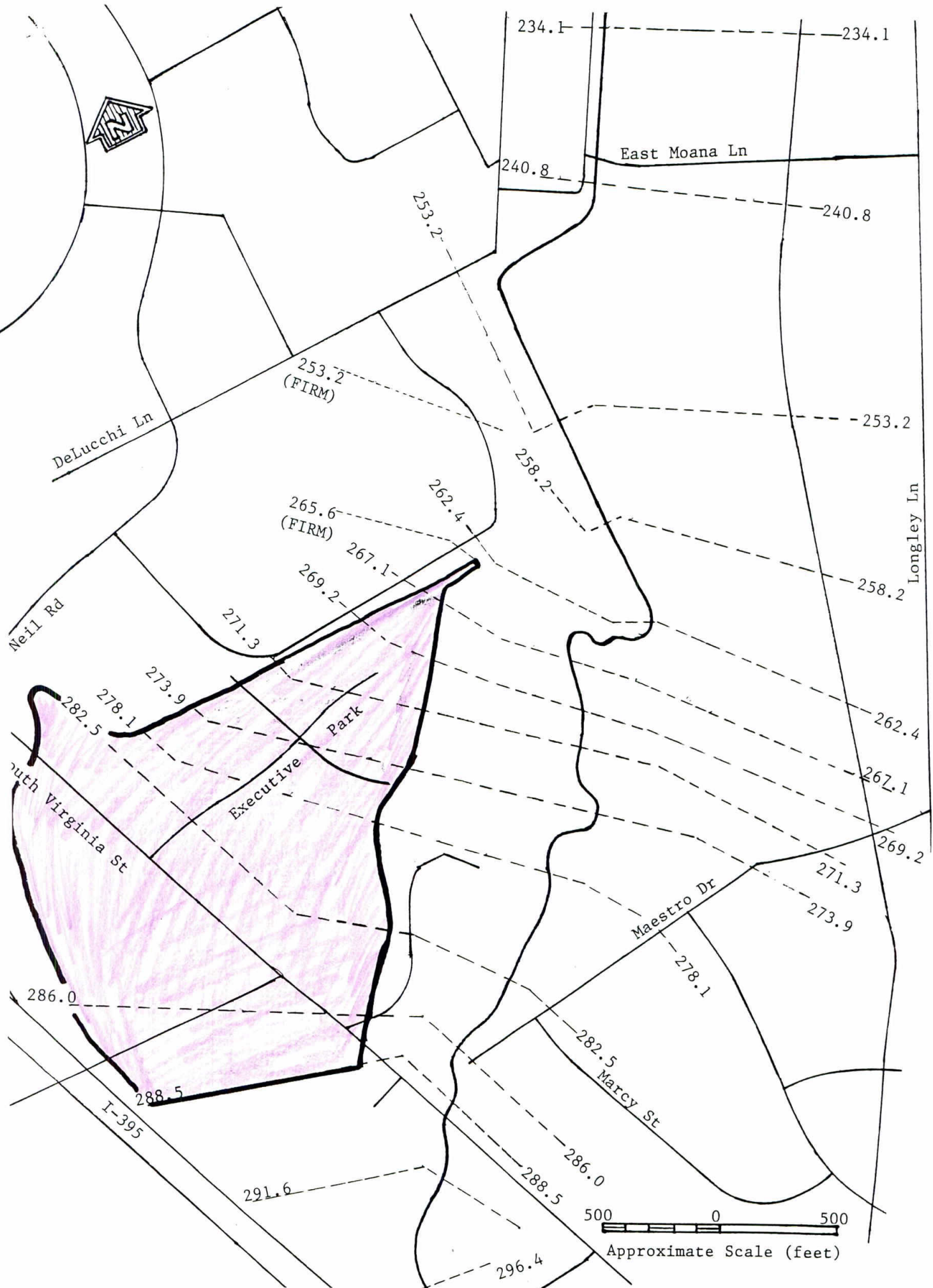


Cross section 291.6



Cross section 296.4





1*****
 * WATER SURFACE PROFILES *
 * VERSION OF SEPTEMBER 1988 *
 * ERROR: 01,02,03 *
 * UPDATED: SEPTEMBER 1989 *
 * RUN DATE 1/14/94 TIME 9:37:34 *

 * U.S. ARMY CORPS OF ENGINEERS *
 * THE HYDROLOGIC ENGINEERING CENTER *
 * 609 SECOND STREET, SUITE D *
 * DAVIS, CALIFORNIA 95616-4687 *
 * (916) 756-1104 *

```

X   X   XXXXXX   XXXXX
X   X   X   X   X   X
X   X   X   X   X   X
XXXXXXXX XXXX   X   X
X   X   X   X   X   X
X   X   X   X   X   X
X   X   XXXXXX   XXXXX
  
```

END OF BANNER
 1
 1/14/94 9:37:34

PAGE 1

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

THIS RUN EXECUTED 1/14/94 9:37:34

ERROR CORR - 01,02,03
 MODIFICATION -

T1 DRY CREEK - APPEAL RESOLUTION
 T2 LEFT.DAT
 T3 PURPLE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	RVINS	Q	WSKL	FQ
	0	2	0	0	.005	0	0	0	4445	0
J2	HPROF	IPLT	PRFVS	XSECV	XSECH	FW	ALLDC	IBW	CHMIM	ITRACK
	-1	0	-1				-1			
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38	1	2	43	27	53	54	28		
NC	.05	.045	.035	.1	.3					
QT	1	375								
X1	265.6	6	1000	1055	420	420	420			
GR	4446.3	1000	4444.0	1025	44444.0	1030	4445.0	1035	4444.0	1040
GR	4445.7	1055								

QT 1 675
 *****CROSS SECTION 267.1*****
 ET 9.1
 X1 267.1 86 1852.2 1879.4 260 180 470 1252.1
 GR 4447.7 1166.9 4447.7 1167.6 4447.1 1186.6 4447.0 1189.1 4446.9 1189.7
 GR 4446.0 1192.3 4445.1 1195.9 4445.0 1198.4 4445.3 1199.5 4446.0 1201.1
 GR 4446.3 1203.0 4446.4 1203.6 4447.0 1207.0 4447.1 1213.1 4447.1 1220.1
 GR 4447.5 1231.4 4447.5 1231.6 4447.2 1246.9 4447.0 1247.6 4447.0 1250.9
 GR 4447.9 1252.0 4448.0 1252.1 4448.0 1257.2 4447.8 1260.7 4447.5 1268.7
 GR 4447.1 1280.4 4447.2 1390.1 4447.4 1406.7 4447.5 1425.5 4447.9 1445.9
 GR 4447.8 1481.0 4447.4 1506.3 4447.3 1561.8 4447.0 1618.6 4447.0 1675.1
 GR 4447.2 1720.4 4447.2 1721.5 4447.6 1787.7 4447.6 1803.1 4447.7 1804.6
 GR 4447.1 1852.2 4447.1 1852.5 4447.0 1854.0 4446.6 1855.6 4446.5 1856.2
 GR 4446.0 1859.1 4445.7 1860.1 4445.0 1863.3 4445.0 1865.4 4445.3 1872.8
 GR 4446.0 1874.3 4446.7 1878.0 4447.0 1879.4 4447.5 1885.9 4447.8 1891.6
 GR 4447.8 1916.8 4447.6 1933.7 4447.4 2006.9 4447.3 2047.6 4447.2 2073.4
 GR 4447.1 2121.7 4447.0 2167.3 4446.9 2191.3 4446.0 2235.0 4445.0 2340.0
 GR 4446.0 2345.0 4446.0 2365.0 4445.7 2500.0 4446.0 2602.0 4446.5 2960.0
 GR 4447.0 3137.0 4444.5 3150.0 4447.0 3154.0 4448.0 3166.0 4448.0 3174.0
 GR 4447.0 3175.0 4447.0 3210.0 4448.0 3215.0 4448.0 3220.0 4444.5 3227.0
 GR 4447.0 3230.0 4447.0 3235.0 4446.5 3240.0 4447.0 3242.0 4448.0 3435.0

1
 1/14/94 9:37:34

PAGE 2

GR 4450.8 3533.0

*****CROSS SECTION 269.2*****

QT 1 1850
 ET 9.1
 X1 269.2 55 2241.8 2301.8 190 190 210 1634.8
 GR 4450.2 1260.4 4446.0 1271.4 4446.0 1287.1 4447.0 1290.0 4447.0 1308.2
 GR 4446.0 1310.4 4446.0 1314.1 4447.0 1316.5 4448.0 1353.3 4448.2 1383.3
 GR 4448.1 1450.5 4448.2 1473.3 4448.2 1492.8 4448.0 1530.2 4449.0 1605.1
 GR 4448.0 1616.2 4449.0 1626.1 4449.0 1634.8 4448.4 1902.7 4448.5 1957.5
 GR 4448.6 2013.4 4448.6 2070.1 4448.0 2101.4 4447.9 2123.0 4448.0 2155.8
 GR 4448.0 2187.6 4448.0 2197.9 4448.2 2198.0 4448.4 2241.8 4446.0 2260.3
 GR 4446.0 2278.4 4448.2 2301.8 4447.9 2457.1 4447.9 2568.7 4448.0 2815.0
 GR 4446.5 2820.0 4447.0 2822.0 4448.0 2823.0 4448.5 2832.0 4448.0 2841.0
 GR 4447.5 3180.0 4448.0 3477.0 4448.2 3483.0 4448.0 3487.0 4447.9 3504.0
 GR 4448.0 3542.0 4448.2 3546.0 4448.0 3549.0 4447.8 3552.0 4448.0 3556.0
 GR 4448.0 3568.0 4449.0 3622.0 4448.0 3625.0 4452.0 3830.0 4452.2 3870.0

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	EV	EL	GLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	EMDST	

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCEV= .100 CERV= .300
 1340 CARD NOT RECOGNIZED OR CARD OUT OF ORDER
 * .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
 1340 CARD NOT RECOGNIZED OR CARD OUT OF ORDER
 * .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
 *SECNO 265.600

3265 DIVIDED FLOW

3280 CROSS SECTION 265.60 EXTENDED 1.23 FEET
 265.600 2.93 4446.93 4446.26 4445.00 4447.21 .28 .00 .00 4446.30
 375. 0. 375. 0. 0. 88. 0. 0. 0. 4445.70
 .00 .00 4.26 .00 .000 .035 .000 .000 4444.00 1000.00
 .005005 420. 420. 420. 0 20 4 .00 45.00 1055.00
 0

*SECNO 267.100
 3280 CROSS SECTION 267.10 EXTENDED 1.35 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.64

267.100 4.55 4449.05 4448.20 .00 4449.28 .23 2.06 .01100000.00
 675. 675. 0. 0. 175. 0. 0. 1. 0. 100000.00
 .03 3.86 .00 .00 .050 .000 .000 .000 4444.50 1166.90
 .006058 260. 470. 180. 4 14 0 .00 85.10 1252.00
 0

*SECNO 269.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.85

269.200 3.87 4449.87 4448.84 .00 4449.98 .11 .69 .01100000.00
 1850. 1850. 0. 0. 694. 0. 0. 3. 1. 100000.00
 .05 2.67 .00 .00 .050 .000 .000 .000 4446.00 1261.23
 .003072 190. 210. 190. 2 17 0 .00 364.81 1626.10
 0
 1

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	EV	EL	GLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	EMDST	

*SECNO 271.300
 271.300 4.65 4450.65 4449.89 .00 4450.77 .12 .79 .00100000.00
 2000. 2000. 0. 0. 724. 0. 0. 6. 4. 100000.00
 .07 2.76 .00 .00 .050 .000 .000 .000 4446.00 1251.86
 .004664 210. 210. 200. 2 8 0 .00 545.23 1797.09
 0

*SECNO 273.900

3470 ENCROACHMENT STATIONS= 1198.5 2313.8 TYPE= 1 TARGET= 1115.300
 273.900 4.54 4451.54 4450.98 .00 4451.61 .07 .83 .00100000.00
 2000. 2000. 0. 0. 941. 0. 0. 10. 7. 100000.00
 .09 2.12 .00 .00 .050 .000 .000 .000 4447.00 1198.50
 .003397 210. 260. 220. 0 9 0 .00 907.55 2106.05
 0

1490 MH CARD USED

*SECNO 278.100

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 1178.8 2349.6 TYPE= 1 TARGET= 1170.800
 278.100 3.78 4452.78 4451.85 .00 4452.83 .05 1.22 .00100000.00
 2000. 2000. 0. 0. 1136. 0. 0. 17. 14. 100000.00
 .14 1.76 .00 .00 .074 .000 .000 .000 4449.00 1178.80
 .004955 300. 420. 310. 2 22 0 .00 1058.01 2256.86
 0

CCEV= .100 CERV= .300

*SECNO 282.500

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 845.0 2920.9 TYPE= 1 TARGET= 2075.900
 282.500 3.86 4455.86 4455.59 .00 4455.97 .11 3.12 .02100000.00
 2000. 2000. 0. 0. 757. 0. 0. 27. 26. 100000.00
 .19 2.64 .00 .00 .050 .000 .000 .000 4452.00 944.38
 .011666 430. 440. 520. 4 10 0 .00 1397.18 2616.07
 0
 1

SECNO	DEPTH	CWSKL	CRWS	WSKLK	EG	EV	EL	GLOSS	BANK	KLEV
Q	GLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XML	XMCH	XMR	WIN	KLMIN	SSTA	
SLOPE	KLOBL	KLCH	KLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV- .300 CERV- .500
 *SECNO 286.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS-	1000.0	2450.0	TYPE-	1	TARGET-	1450.000
286.000	7.74	4460.74	4460.74	.00	4460.79	.05
2000.	2000.	0.	0.	1092.	0.	3.83
.28	1.83	.00	.00	.050	.000	40.
.003817	620.	400.	400.	0	27	0
						45. 100000.00
						4453.00 1122.39
						1235.33 2357.71

CCHV- .400 CERV- .800
 *SECNO 288.500

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS-	1000.0	2050.0	TYPE-	1	TARGET-	1050.000
288.500	9.07	4462.67	4462.67	.00	4463.04	.37
2000.	2000.	0.	0.	407.	0.	1.96
.29	4.91	.00	.00	.045	.000	44.
.039848	220.	250.	180.	0	11	0
						50. 100000.00
						4453.60 1110.04
						685.82 2025.33

 HRC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

THIS RUN EXECUTED 1/14/94 9:38: 6

ERROR CORR - 01,02,03
 MODIFICATION -

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

PURPLE

SUMMARY PRINTOUT

SECNO	CWSKL	CRWS	Q	STENCL	SSTA	ENDST	STENCR
265.600	4446.93	4446.26	375.00	.00	1000.00	1055.00	.00
* 267.100	4449.05	4448.20	675.00	.00	1166.90	1252.00	1252.10
* 269.200	4449.87	4448.84	1850.00	.00	1261.29	1626.10	1634.80
271.300	4450.65	4449.89	2000.00	.00	1251.86	1797.09	1829.40
273.900	4451.54	4450.98	2000.00	1198.50	1198.50	2106.05	2313.80
278.100	4452.78	4451.85	2000.00	1178.80	1178.80	2256.86	2349.60
* 282.500	4455.86	4455.59	2000.00	845.00	944.38	2616.07	2920.90
* 286.000	4460.74	4460.74	2000.00	1000.00	1122.39	2357.71	2450.00
* 288.500	4462.67	4462.67	2000.00	1000.00	1110.04	2025.33	2050.00

SUMMARY OF ERRORS AND SPECIAL NOTES

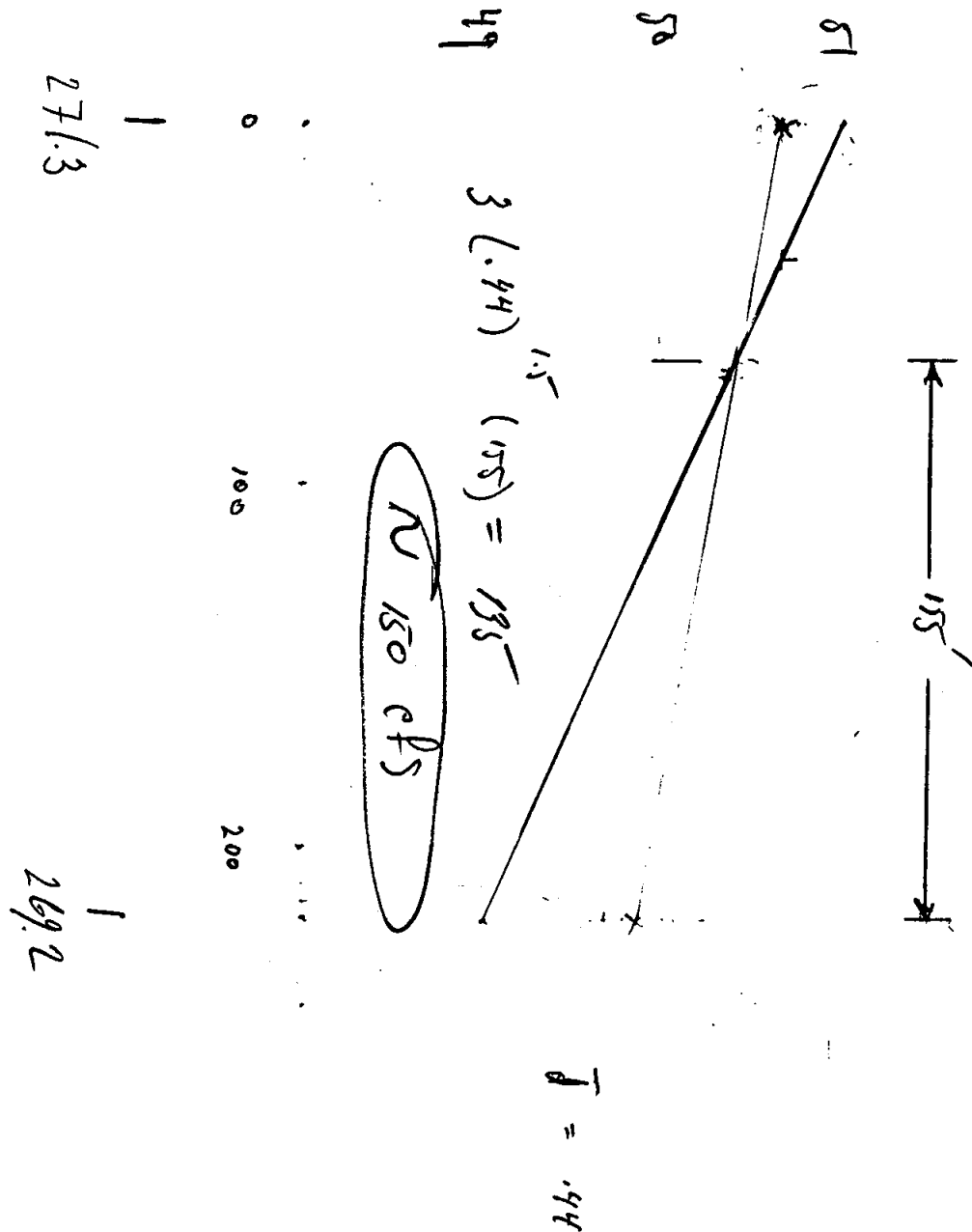
WARNING SECNO- 267.100 PROFILE- 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO- 269.200 PROFILE- 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO- 282.500 PROFILE- 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 CAUTION SECNO- 286.000 PROFILE- 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO- 286.000 PROFILE- 1 MINIMUM SPECIFIC ENERGY
 CAUTION SECNO- 288.500 PROFILE- 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO- 288.500 PROFILE- 1 MINIMUM SPECIFIC ENERGY





S.O. No. _____
Subject: Reco, NV
Dry Creek Left Sheet No. _____ of _____
Drawing No. _____
Computed by _____ Checked By _____ Date _____

— right side embankment —



OVER.BAS

BASIC PROGRAM TO COMPUTE OVERFLOWS BETWEEN SECTIONS 269.2 AND 267.1

```
5 OPEN "over" FOR OUTPUT AS #1
10 FOR K=1 TO 20
20     D=K/10
30     QL=600*(D-.1)^1.5
40     QR=750*D^1.5
50     PRINT #1, USING "##.##    #####.#    #####.#    #####.#";D,QL,QR,QR+QL
60 NEXT K
```

.10	0.0	23.7	23.7
.20	19.0	67.1	86.1
.30	53.7	123.2	176.9
.40	98.6	189.7	288.3
.50	151.8	265.2	417.0
.60	212.1	348.6	560.7
.70	278.9	439.2	718.1
.80	351.4	536.7	888.1
.90	429.3	640.4	1069.7
.00	512.3	750.0	1262.3
.10	600.0	865.3	1465.3
.20	692.2	985.9	1678.1
.30	788.7	1111.7	1900.4
.40	889.3	1242.4	2131.7
.50	993.9	1377.8	2371.7
.60	1102.3	1517.9	2620.2
.70	1214.3	1662.4	2876.7
.80	1329.9	1811.2	3141.1
.90	1449.0	1964.2	3413.2
.00	1571.4	2121.3	3692.7

Q_L Q_R $Q_{Total\ over}$
 above
 right
 bankment

$$\bar{d} = (1.05 + 0.87) / 2 = .96$$

$$Q_L \approx 475 \quad Q_R \approx 700$$



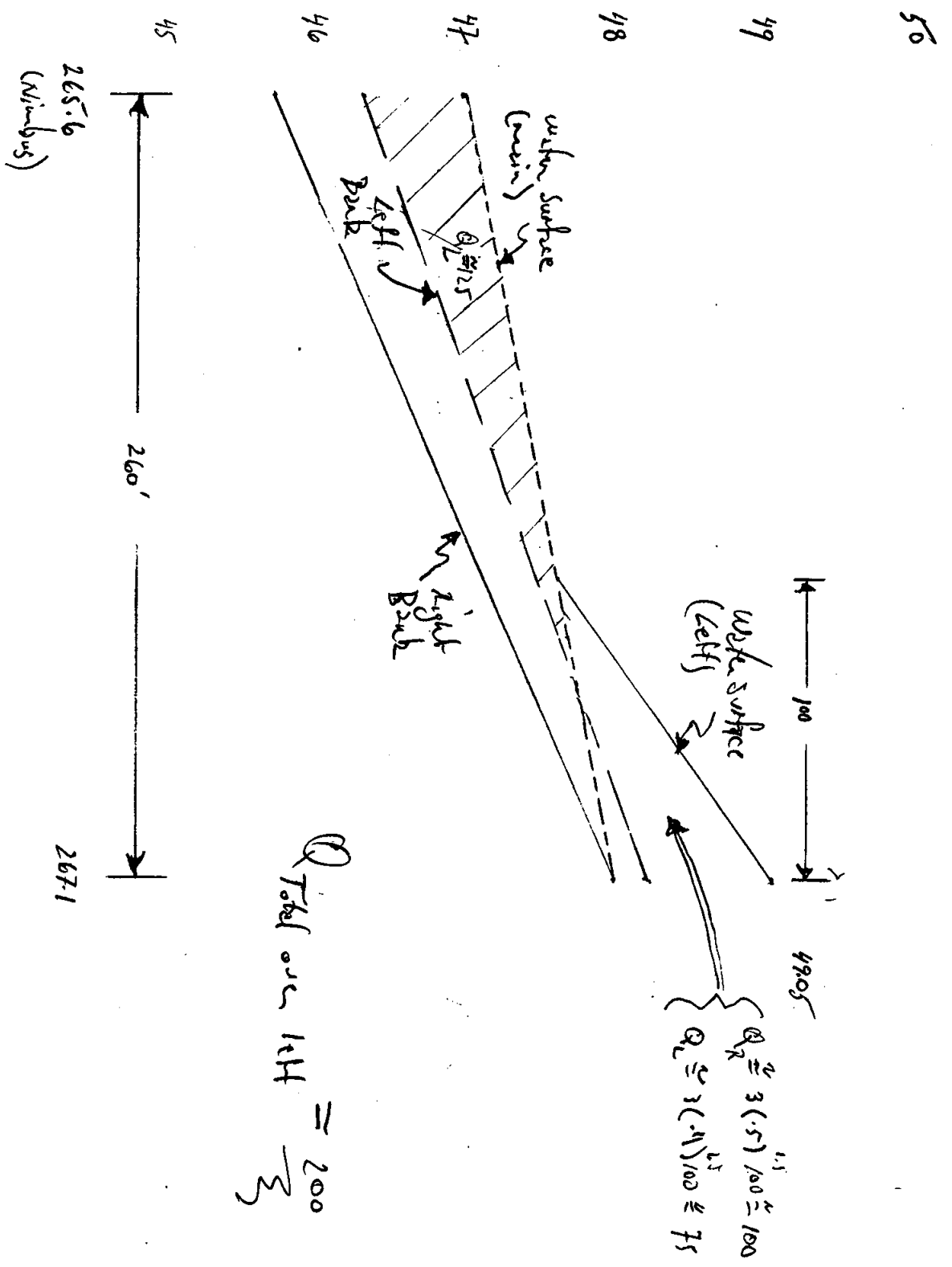
S.O. No. _____

Subject: Reso, NH
Dry Creek Middle Reach
Left side

Sheet No. _____ of _____

Drawing No. _____

Computed by En Checked By _____ Date 1.10.94





S.O. No. _____

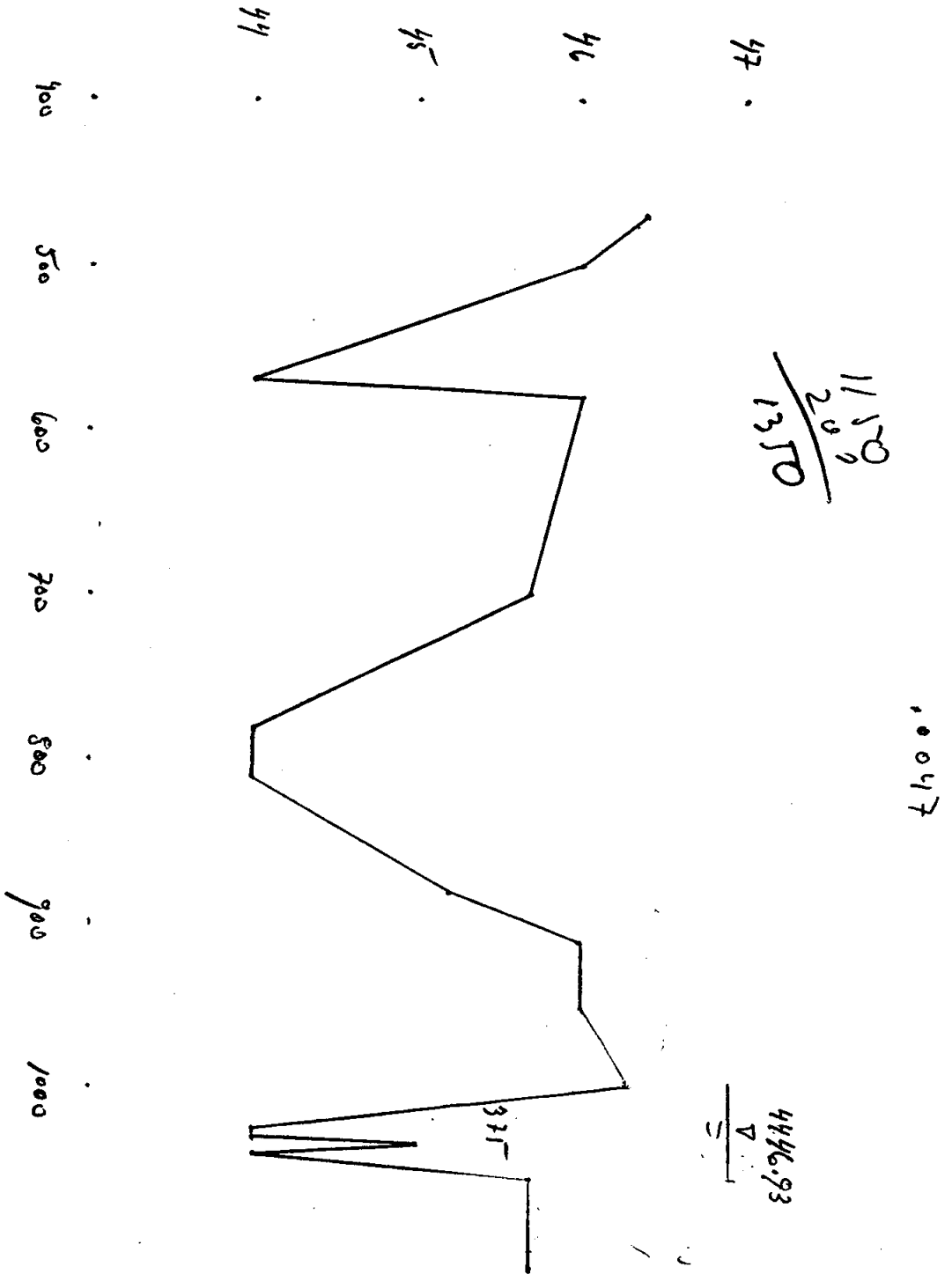
Subject: Dry Creek Middle Reach left side

Sheet No. _____ of _____

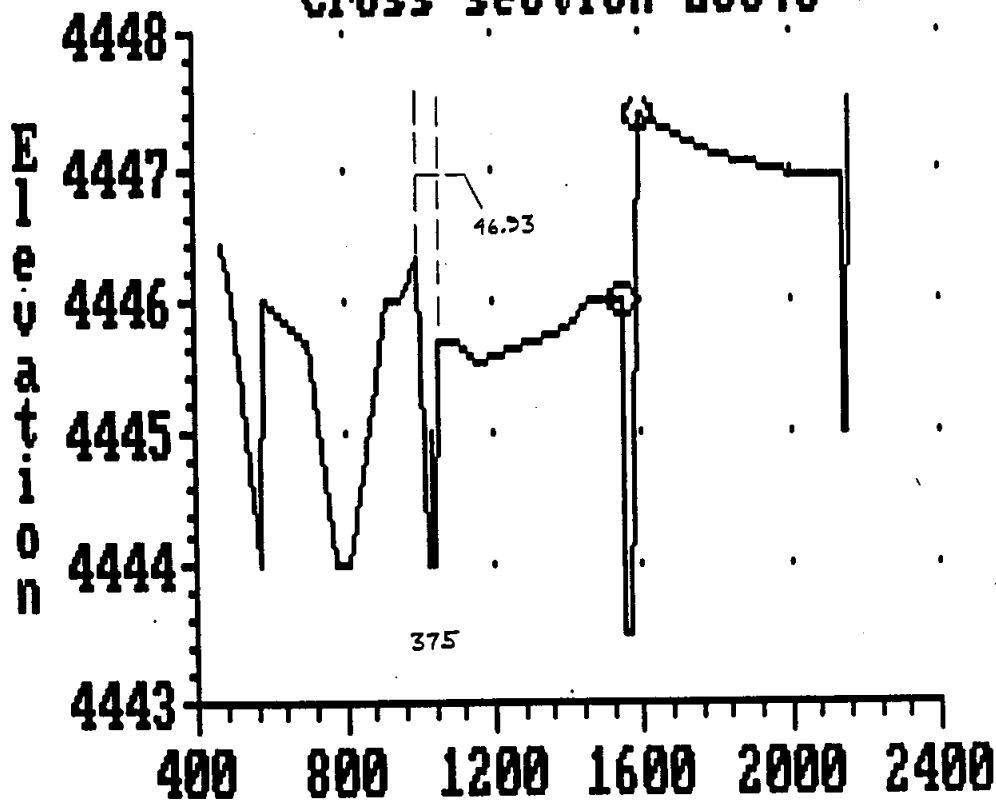
265.6 (Nimbus)

Drawing No. _____

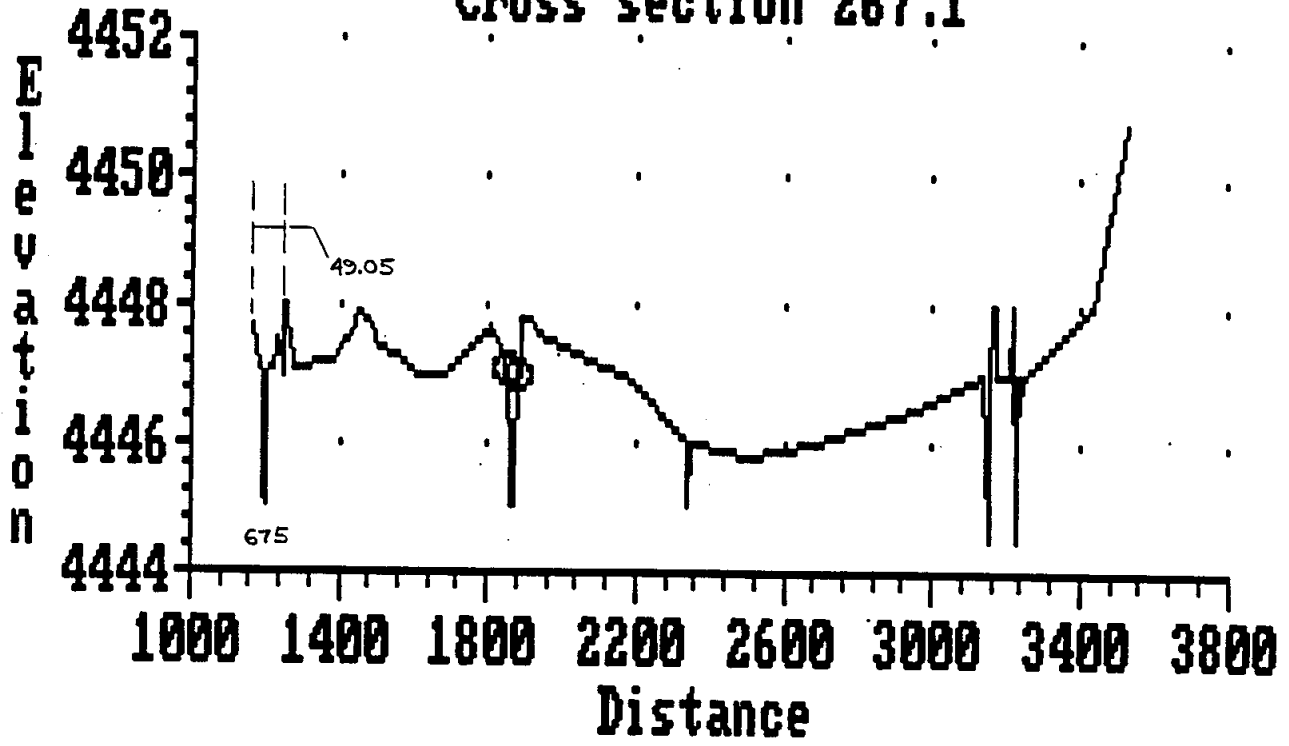
Computed by _____ Checked By _____ Date _____



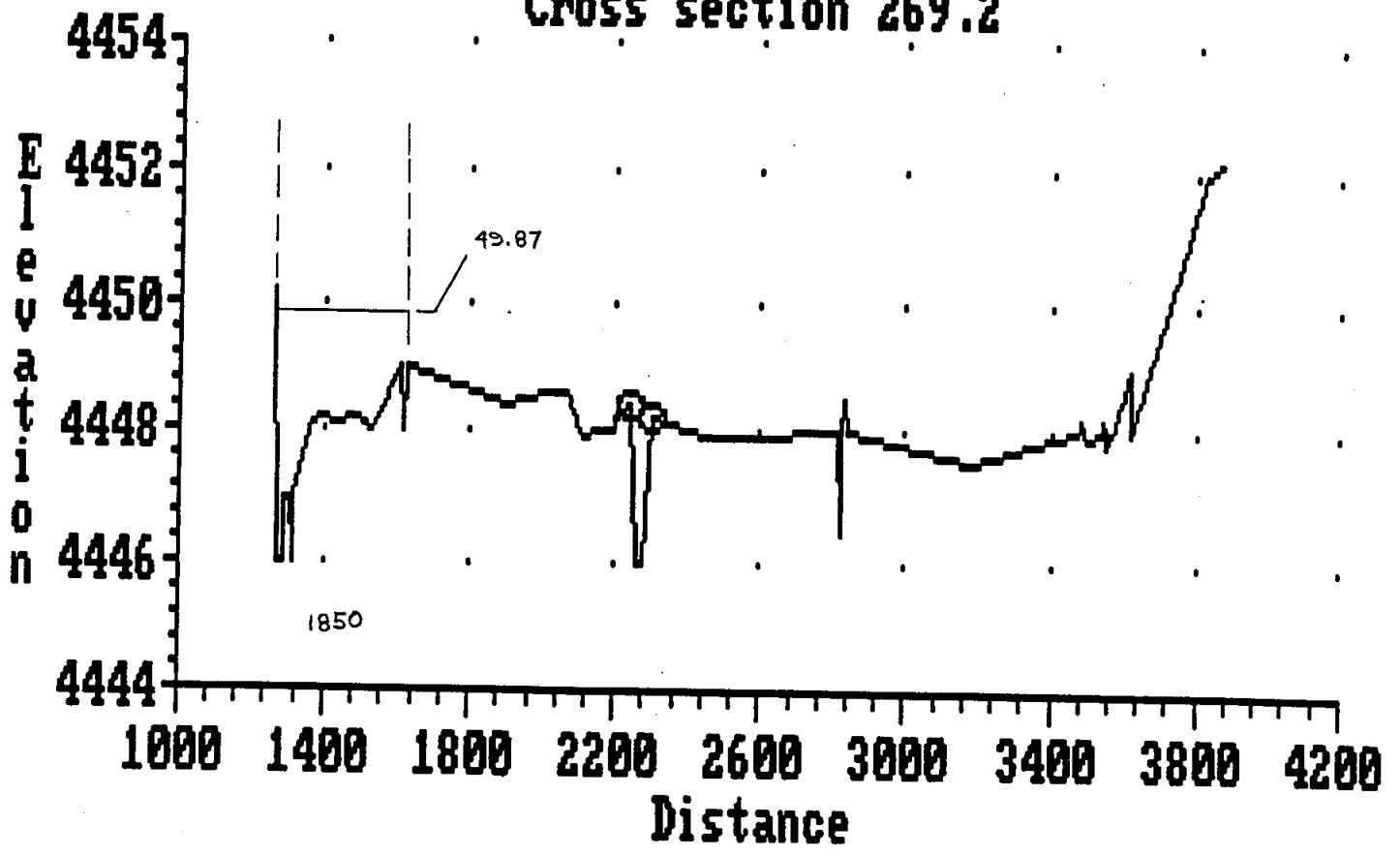
Middle Dry Creek Cross section 265.6



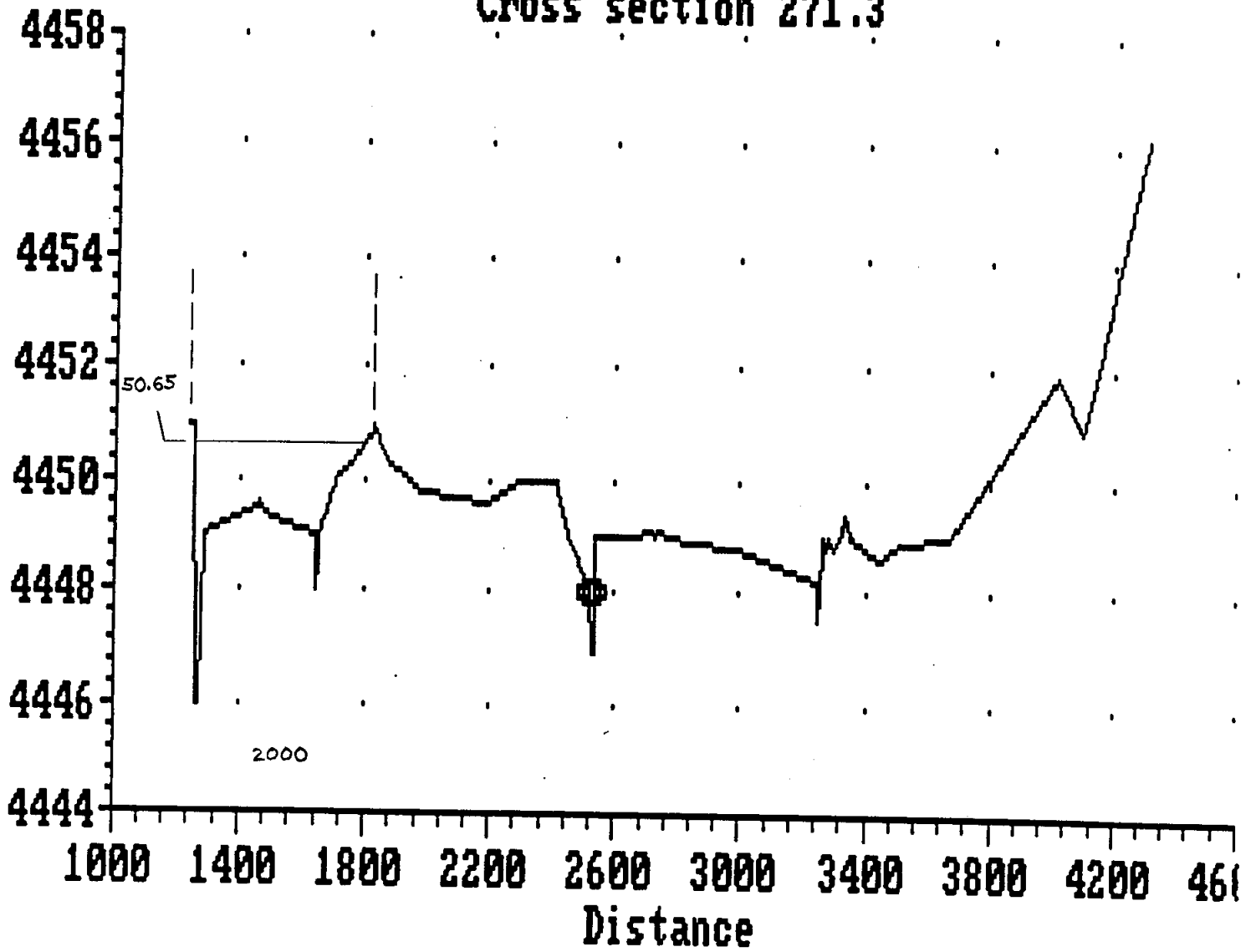
Cross section 267.1



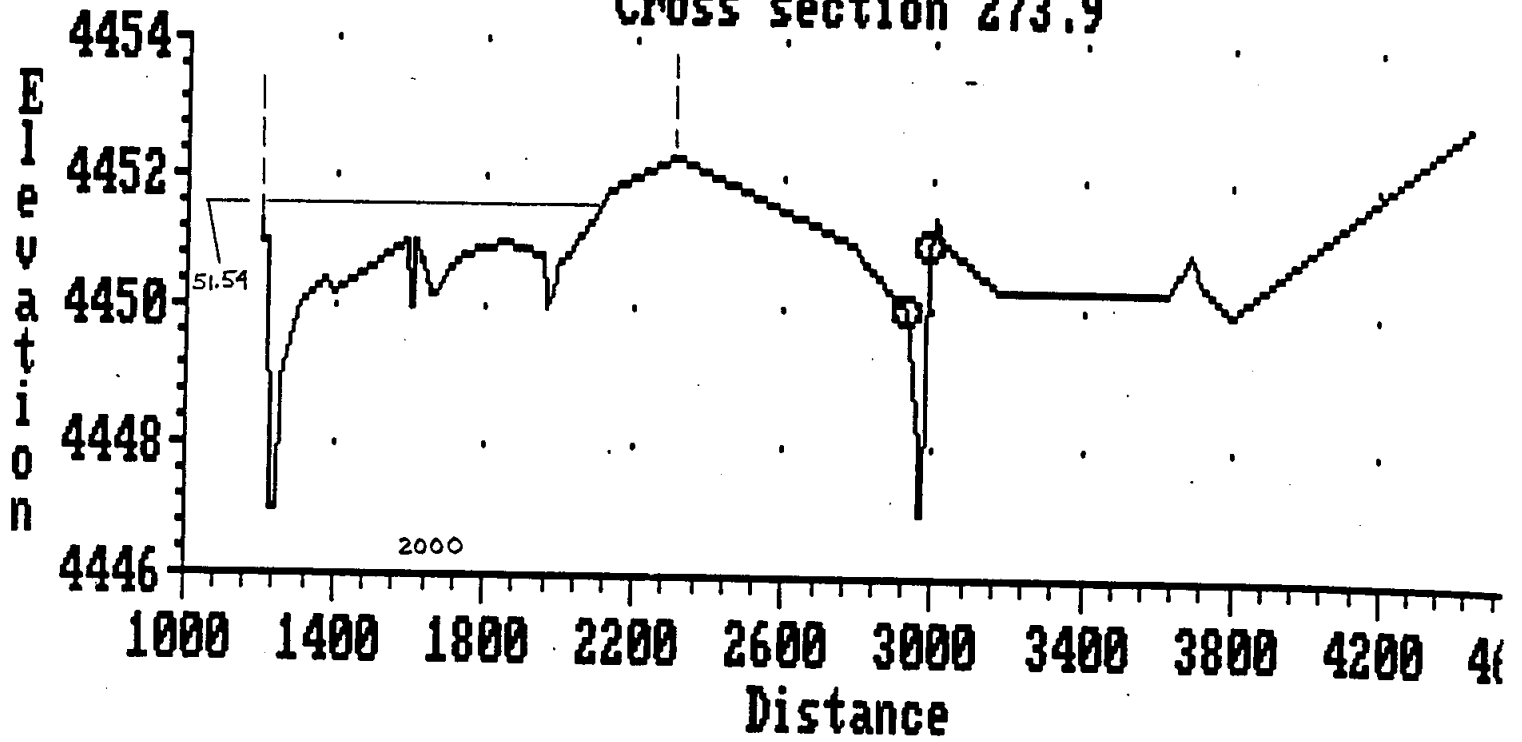
Cross section 269.2



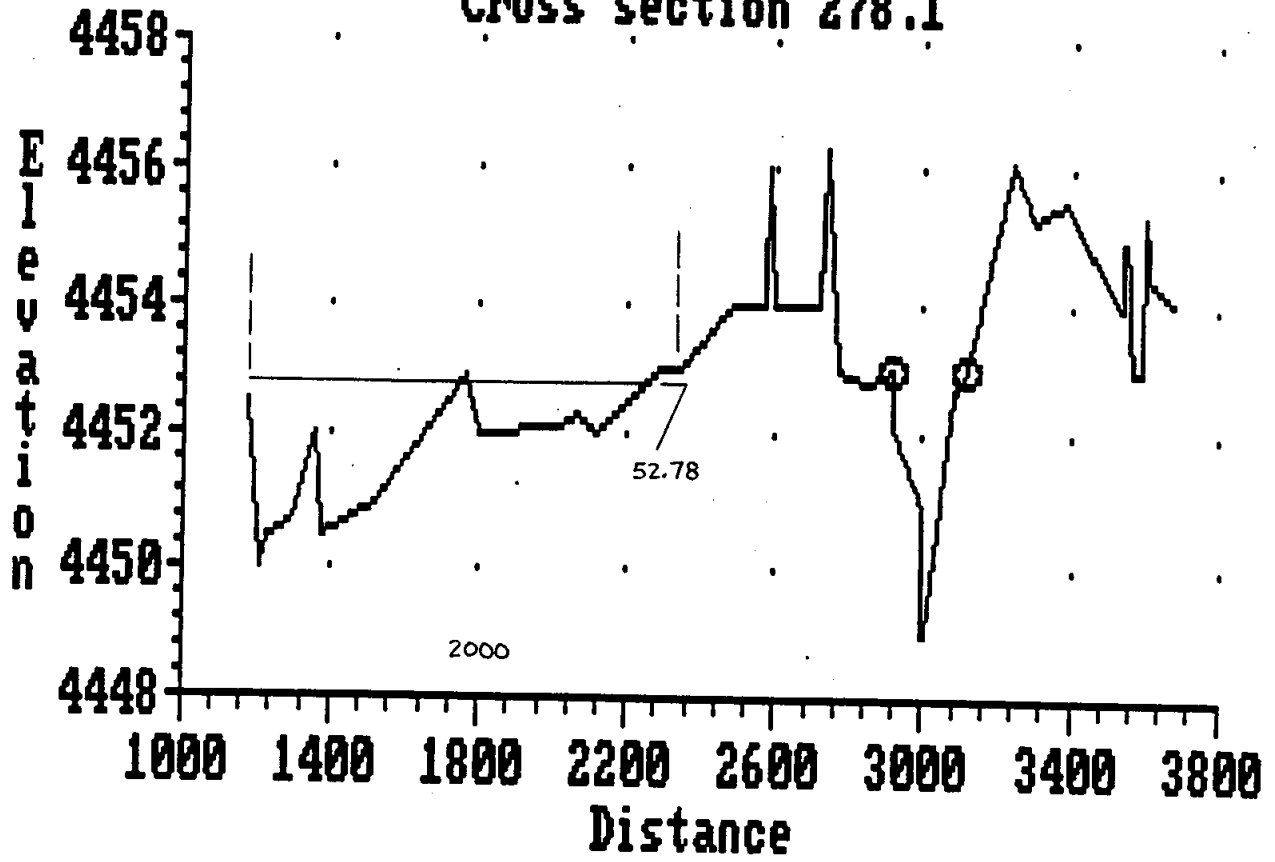
Cross section 271.3



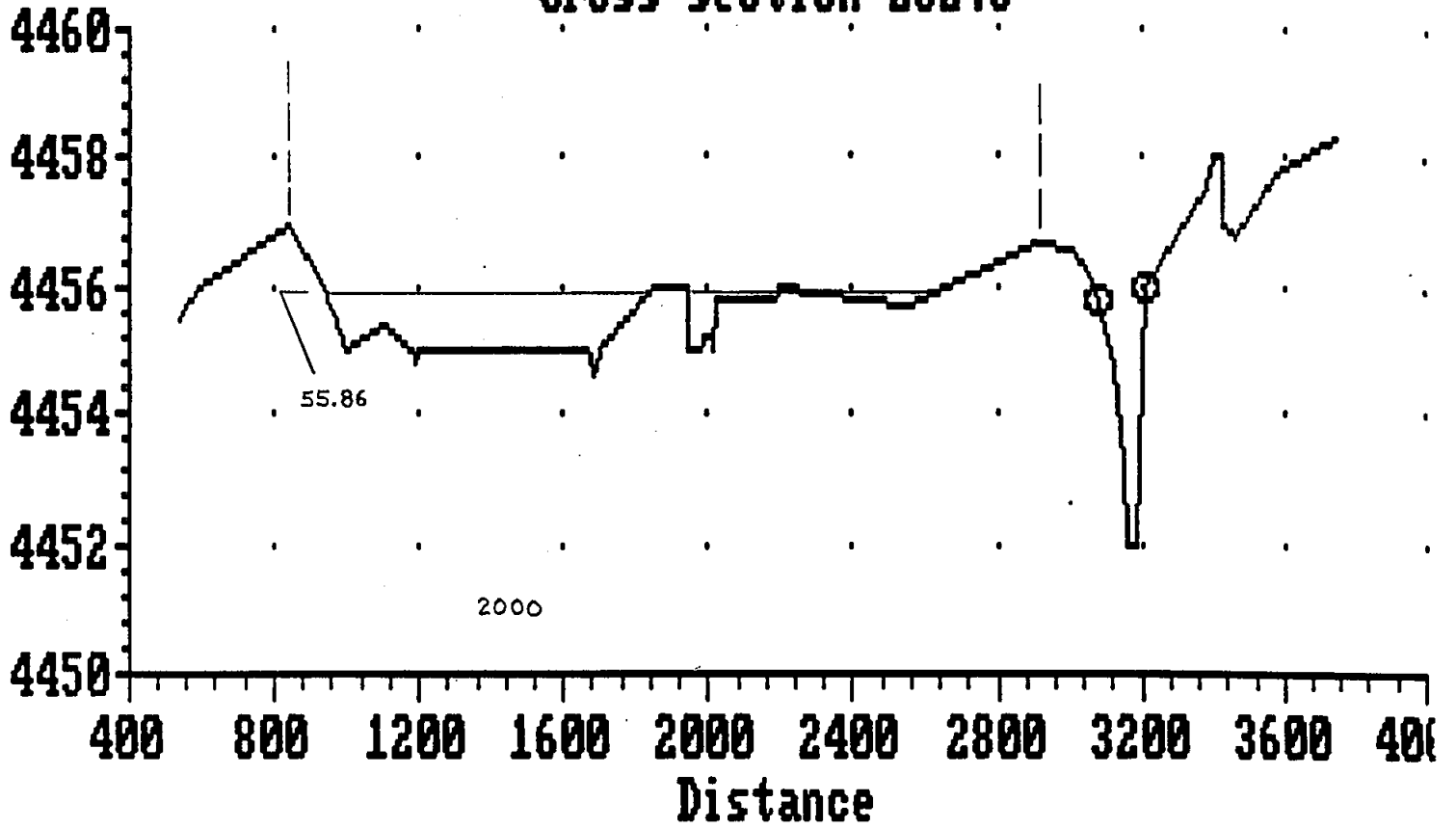
Cross section 273.9



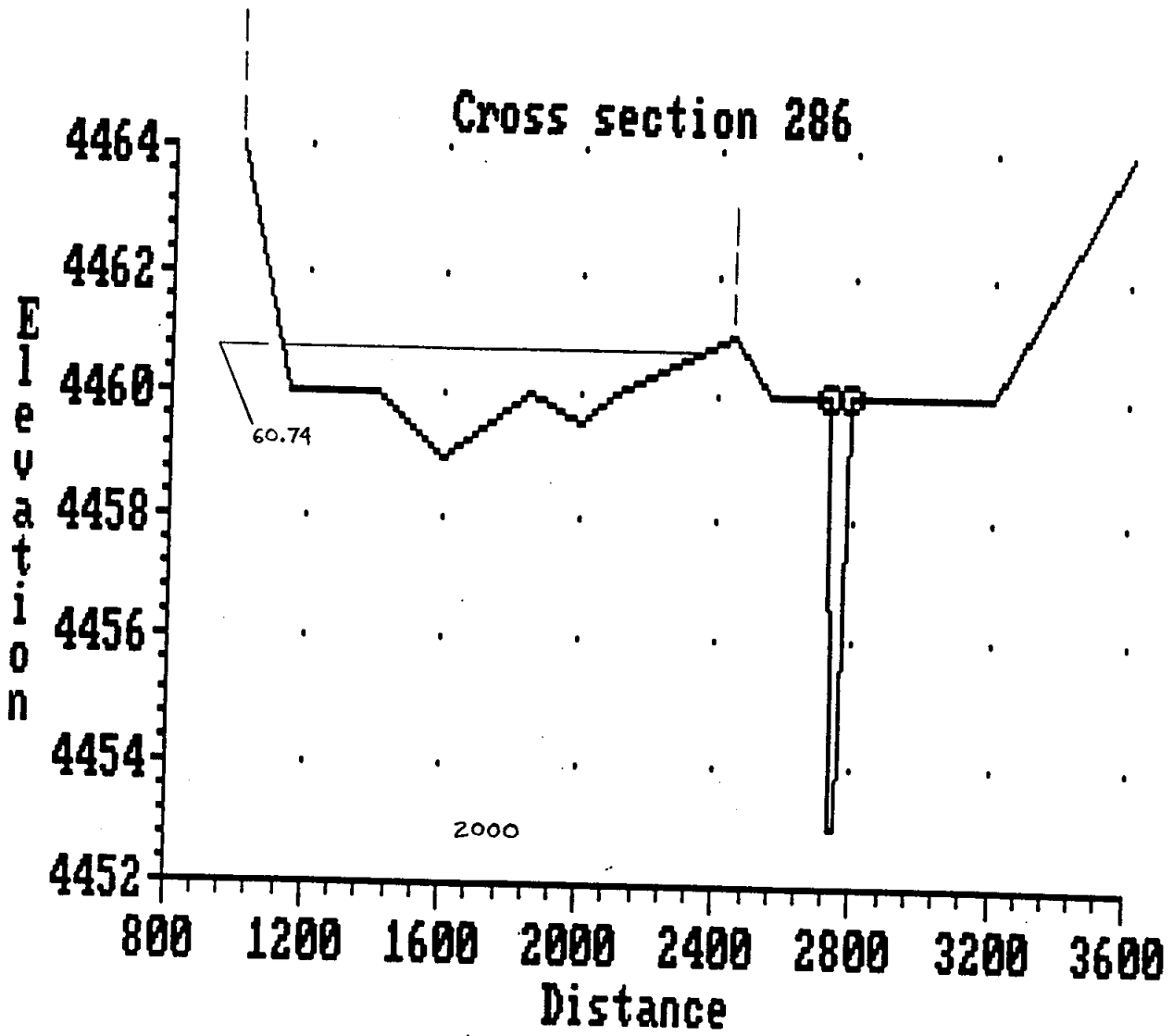
Cross section 278.1



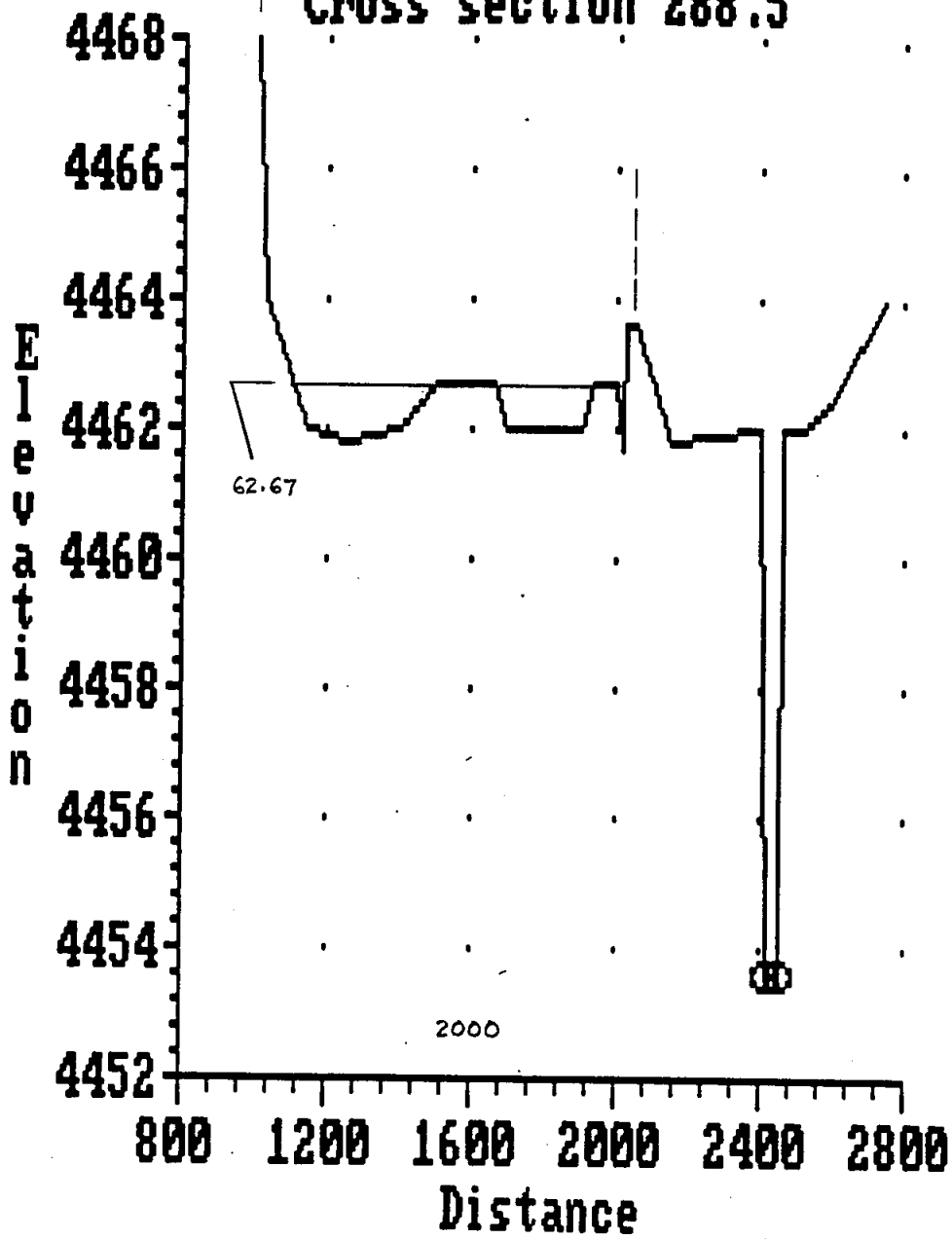
Cross section 282.5

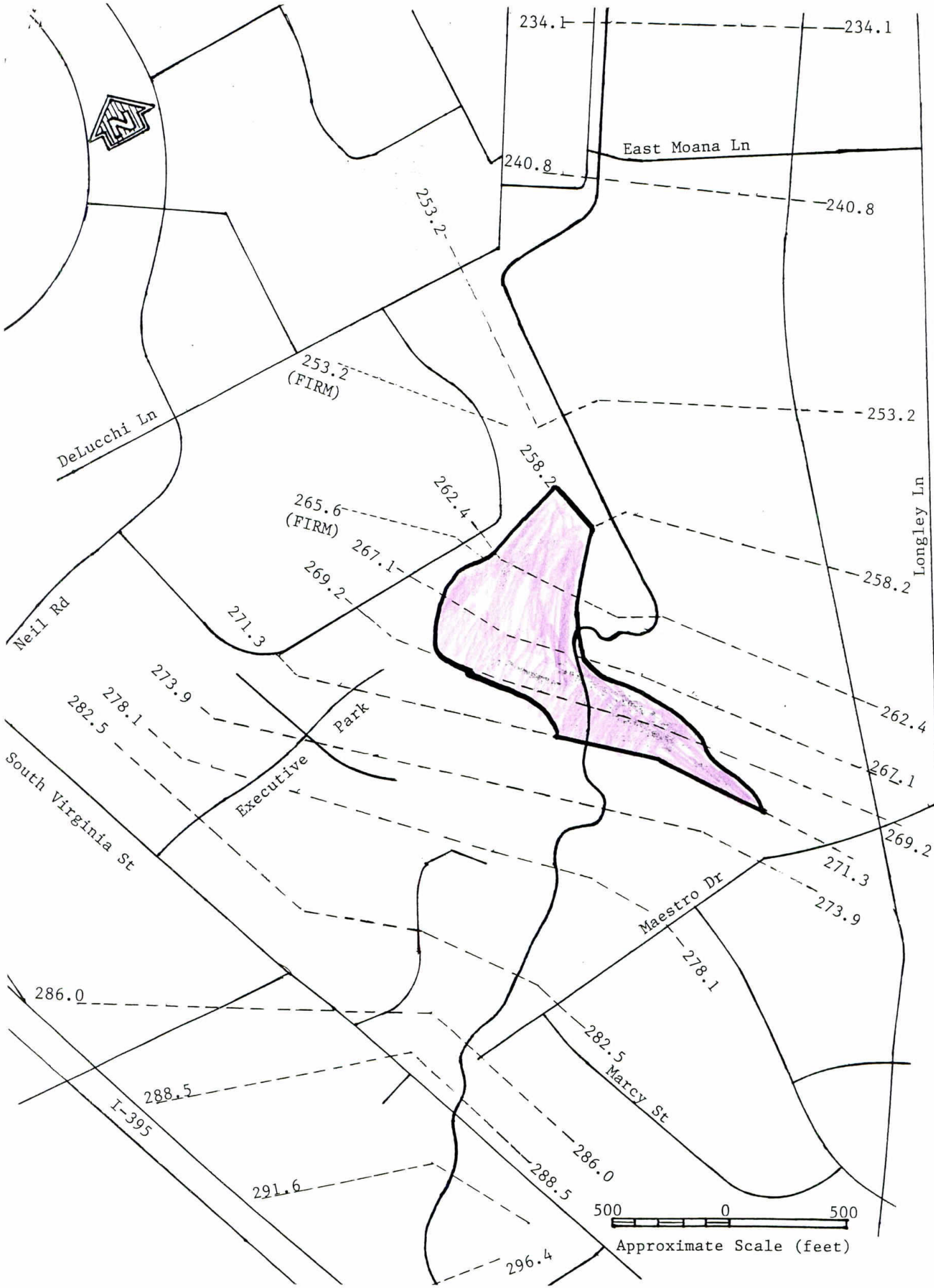


Cross section 286



Cross section 288.5





 * WATER SURFACE PROFILES *
 * VERSION OF SEPTEMBER 1988 *
 * ERROR: 01,02,03 *
 * UPDATED: SEPTEMBER 1989 *
 * RUN DATE 1/14/94 TIME 10:24:10 *

 * U.S. ARMY CORPS OF ENGINEERS *
 * THE HYDROLOGIC ENGINEERING CENTER *
 * 609 SECOND STREET, SUITE D *
 * DAVIS, CALIFORNIA 95616-4687 *
 * (916) 756-1104 *

```

      X  X  XXXXXX  XXXX
      X  X  X      X  X
      X  X  X      X
      XXXXXX  XXXX  X
      X  X  X      X
      X  X  X      X
      X  X  XXXXXX  XXXX
  
```

END OF BANKER
 1 1/14/94 10:24:11

PAGE 1

THIS RUN EXECUTED 1/14/94 10:24:11

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
 MODIFICATION -

T1 DRY CREEK - APPEAL RESOLUTION
 T2 LEFTFLOW.DAT
 T3 ORANGE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	NVIMS	Q	WSKL	PQ
	0	2	0	0	-1	0	0	0	4445.00	0
J2	MPROY	IPLST	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHWIN	ITRACE
	-1	0	-1							

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

NC	38	27	43	1	28	13	14
	.050	.045	.035	.1	.3		

QT 1 500
 *****CROSS SECTION 258.2*****
 ET 9.1
 X1 258.2 82 1186.1 1298.6 1000 1750 500 1186.1
 GR 4450.0 906.6 4449.8 908.6 4449.0 912.6 4448.9 913.3 4448.0 918.2
 GR 4447.5 919.7 4446.7 922.5 4446.5 924.1 4446.4 924.9 4446.0 927.9
 GR 4445.1 933.7 4445.0 934.6 4444.4 946.5 4444.0 952.2 4444.1 978.4
 GR 4444.4 1009.2 4444.6 1020.1 4444.8 1024.2 4445.0 1030.7 4445.0 1038.0
 GR 4444.6 1042.9 4444.1 1049.7 4444.0 1050.9 4444.0 1059.7 4444.1 1062.2
 GR 4444.6 1089.2 4444.6 1135.5 4444.8 1157.6 4445.0 1164.1 4445.0 1164.1
 GR 4445.0 1165.1 4445.1 1169.5 4445.2 1173.7 4445.2 1186.1 4445.1 1193.3
 GR 4445.0 1197.5 4443.0 1206.0 4442.7 1206.5 4442.6 1206.6 4442.3 1207.1
 GR 4442.0 1207.7 4441.9 1207.9 4441.0 1209.9 4440.0 1214.5 4439.7 1215.3
 GR 4439.0 1217.3 4439.0 1217.4 4438.0 1220.3 4437.1 1223.6 4437.0 1224.1
 GR 4436.5 1230.1 4436.0 1235.1 4436.0 1256.7 4436.4 1262.2 4437.0 1271.4
 GR 4437.7 1275.8 4438.9 1280.0 4439.0 1280.2 4440.0 1282.8 4440.4 1283.8
 GR 4441.0 1285.4 4441.9 1287.4 4442.5 1288.8 4443.0 1289.9 4444.0 1291.5
 GR 4444.2 1296.7 4444.2 1298.6 4444.1 1300.1 4444.0 1304.5 4444.0 1304.6
 GR 4443.9 1304.7 4443.8 1305.2 4443.6 1305.5 4443.6 1305.6 4443.4 1306.6
 GR 4443.3 1307.3 4442.5 1470 4443 2200 4443.5 2260 4442 2300
 GR 4444 2550 4445 2700

*****CROSS SECTION 262.4*****

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PAGE 2

QT 1 200
 ET 9.1
 X1 262.4 76 1831.7 1930.2 300 430 420 1578.3
 GR 4446.0 1148.7 4446.0 1148.8 4446.4 1162.2 4446.4 1163.7 4446.6 1195.1
 GR 4446.6 1195.9 4446.1 1198.5 4446.0 1434.6 4446.1 1439.2 4446.4 1461.8
 GR 4446.5 1474.5 4446.5 1519.7 4446.5 1528.7 4446.5 1528.9 4446.5 1529.1
 GR 4446.5 1530.4 4446.5 1534.7 4446.6 1578.3 4446.4 1621.1 4446.4 1631.5
 GR 4446.4 1638.3 4446.3 1653.6 4446.2 1697.3 4446.4 1708.1 4446.4 1710.2
 GR 4446.2 1742.5 4446.2 1752.1 4446.2 1752.6 4446.2 1755.6 4446.2 1757.3
 GR 4446.2 1758.7 4446.2 1765.3 4446.1 1797.3 4446.1 1815.4 4446.0 1823.8
 GR 4446.0 1831.7 4445.6 1834.5 4445.0 1838.5 4444.2 1841.5 4444.0 1842.1
 GR 4443.7 1842.8 4443.0 1844.6 4442.5 1846.4 4442.0 1848.3 4441.3 1851.1
 GR 4441.0 1852.4 4440.1 1858.0 4439.8 1859.8 4439.0 1864.8 4438.8 1867.1
 GR 4438.0 1876.9 4438.0 1894.4 4438.4 1900.7 4439.0 1910.7 4439.3 1912.2
 GR 4440.0 1917.5 4440.9 1920.5 4441.0 1920.6 4441.9 1923.6 4442.0 1923.7
 GR 4442.0 1923.8 4443.0 1925.4 4443.4 1926.4 4444.0 1928.3 4445.0 1930.2
 GR 4445.0 1937.9 4444.0 1980 4445 2050 4445 2400 4445 2800
 GR 4446 2820 4444 2850 4445 2900 4446 3050 4444 3140
 GR 4447 3210

 * EXTENDED THE CROSS SECTIONS 267.1, 269.2, *
 * AND 271.3 TO LONGLEY LAKE. DATA WAS *
 * OBTAINED FROM SUMMIT ENGINEERING THRU *
 * THE STATE FARMS STOCK FACILITY. *

QT	1	650	*****CROSS SECTION 267.1*****						
ET	9.1								
XI	267.1	86	1852.2	1879.4	260	180	470	1257.2	1891.6
GR	4447.7	1166.9	4447.7	1167.6	4447.1	1186.6	4447.0	4446.9	1189.7
GR	4446.0	1192.3	4445.1	1195.9	4445.0	1198.4	4445.3	1199.5	4446.0
GR	4446.3	1203.0	4446.4	1203.6	4447.0	1207.0	4447.1	1213.1	4447.1
GR	4447.5	1231.4	4447.5	1231.6	4447.2	1246.9	4447.0	1247.6	4447.0
GR	4447.9	1252.0	4448.0	1252.1	4448.0	1257.2	4447.8	1260.7	4447.5
GR	4447.1	1280.4	4447.2	1280.1	4447.4	1306.7	4447.5	1425.5	4447.9
GR	4447.8	1481.0	4447.4	1506.3	4447.3	1561.8	4447.0	1618.6	1445.9
GR	4447.2	1720.4	4447.2	1721.5	4447.6	1787.7	4447.6	1803.1	4447.0
GR	4447.1	1852.2	4447.1	1852.5	4447.0	1854.0	4446.6	1855.6	4446.5
GR	4446.0	1859.1	4445.7	1860.1	4445.0	1863.3	4445.0	1869.4	4445.3
GR	4446.0	1874.3	4446.7	1878.0	4447.0	1879.4	4447.5	1885.9	4447.8
GR	4447.8	1916.8	4447.6	1933.7	4447.4	2006.9	4447.3	2047.6	4447.2
GR	4447.1	2121.7	4447.0	2167.3	4446.9	2191.3	4446.0	2335.0	2073.4
GR	4446.0	2345.0	4446.0	2365.0	4445.7	2500.0	4446.0	2682.0	4445.0
GR	4447.0	3137.0	4444.5	3150.0	4447.0	3154.0	4448.0	3166.0	4446.5
GR	4447.0	3175.0	4447.0	3210.0	4448.0	3215.0	4448.0	3220.0	4448.0
GR	4447.0	3230.0	4447.0	3235.0	4446.5	3240.0	4447.0	3242.0	4444.5
GR	4450.8	3533.0							3435.0

*****CROSS SECTION 269.2*****
 1 1/14/94 10:24:11

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QT	1	1650	*****CROSS SECTION 269.2*****						
ET	9.1								
XI	269.2	55	2241.8	2301.8	190	190	210	1634.8	2832.0
GR	4450.2	1260.4	4446.0	1271.4	4446.0	1287.1	4447.0	1390.0	4447.0
GR	4446.0	1310.4	4446.0	1314.1	4447.0	1316.5	4448.0	1353.3	4448.2
GR	4448.1	1450.5	4448.2	1473.3	4448.2	1492.8	4448.0	1530.2	4449.0
GR	4448.0	1616.2	4449.0	1626.1	4449.0	1634.8	4448.4	1902.7	4448.5
GR	4448.6	2013.4	4448.6	2070.1	4448.0	2101.4	4447.9	2123.0	4448.0
GR	4448.0	2187.6	4448.0	2197.9	4448.2	2198.0	4448.4	2241.8	4446.0
GR	4446.0	2278.4	4448.2	2301.8	4447.9	2457.1	4447.9	2568.7	4448.0
GR	4446.5	2820.0	4447.0	2822.0	4448.0	2823.0	4448.5	2832.0	4448.0
GR	4447.5	3180.0	4448.0	3477.0	4448.2	3483.0	4448.0	3487.0	4447.9
GR	4448.0	3542.0	4448.2	3546.0	4448.0	3549.0	4447.8	3552.0	4448.0
GR	4448.0	3568.0	4449.0	3622.0	4448.0	3625.0	4452.0	3830.0	4452.2

*****CROSS SECTION 271.3*****
 1 1/14/94 10:24:11

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QT	1	9.1	*****CROSS SECTION 271.3*****						
ET	1825								
XI	271.3	63	2515.9	2538.3	210	200	210	2416.5	3333.0
GR	4451.0	1238.9	4451.0	1251.0	4446.0	1263.3	4446.0	1266.9	4449.0
GR	4449.5	1462.0	4449.6	1464.0	4449.5	1471.8	4449.3	1507.5	4449.0
GR	4448.0	1647.2	4448.6	1654.3	4449.0	1655.2	4449.8	1692.5	4450.0
GR	4450.2	1736.5	4450.6	1791.6	4450.9	1823.1	4451.0	1829.4	4450.5
GR	4450.4	1868.6	4450.2	1907.8	4450.0	1944.1	4449.9	1955.0	4449.8
GR	4449.6	2187.9	4449.8	2238.0	4450.0	2294.6	4450.0	2416.5	4449.9
GR	4449.0	2453.1	4448.2	2511.8	4448.0	2515.9	4447.0	2524.5	4447.0
GR	4448.0	2538.3	4448.1	2538.6	4449.0	2540.4	4449.0	2680.7	4449.1
GR	4449.1	2720.2	4449.0	2723.2	4449.1	2732.4	4448.9	2843.4	4448.8
GR	4448.2	3246.0	4447.5	3250.0	4448.0	3254.0	4449.0	3265.0	4448.8
GR	4449.0	3281.0	4448.8	3300.0	4449.0	3315.0	4449.4	3333.0	4449.0
GR	4448.6	3450.0	4448.9	3520.0	4449.0	3675.0	4451.9	4020.0	4451.0
GR	4452.0	4130.0	4456.0	4300.0	4456.2	4310.0			4100.0

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SECH	DEPTH	CWSKL	CRWS	WSKL	EG	EV	HL	CLOSS	BANK	KLEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	XL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XL	XMCH	XNR	WTH	KLMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 1

CCEV= .100 CERV= .300
 *SECH 258.200

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED	258.200	8.94	4444.94	4444.94	.00	4445.25	.31	.00	.00100000.00
	500.	500.	0.	0.	112.	0.	0.	0.	0.100000.00
	.00	4.48	.00	.00	.050	.000	.000	4436.00	935.77
	.042911	1000.	500.	1750.	0	6	0	216.47	1162.18

*SECH 262.400

3280 CROSS SECTION 262.40 EXTENDED .92 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.91

262.400	8.92	4446.92	.00	.00	4446.93	.01	1.65	.03100000.00
200.	200.	0.	0.	281.	0.	0.	1.	2.100000.00
.12	.71	.00	.00	.050	.000	.000	.000	4438.00 1148.70
.000809	300.	420.	430.	6	0	0	.00	386.00 1534.70

0
 *SECNO 267.100
 3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS-		1257.2	1891.6	TYPE-	1	TARGET-	634.400		
267.100	3.23	4447.73	.00	.00	4447.91	.18	.93	.05	4447.10
650.	380.	264.	5.	252.	52.	4.	3.	5.	4447.00
.15	1.51	5.07	1.45	.050	.035	.045	.000	4444.50	1262.50
.006131	260.	470.	180.	5	0	0	.00	579.91	1890.32

0
 *SECNO 269.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.89

1
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SECNO	DEPTH	CWSEL	CRIS	WSKLK	EG	HV	HL	OLOSS	BANK ELEV
Q	QJOB	QCH	QROB	ALOB	ACH	AROB	VOL	TMA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	KML	KMCH	KMR	WIN	KLMIN	SSTA
SLOPE	KLOBL	KLCH	KLOBR	ITRLL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS-		1634.8	2832.0	TYPE-	1	TARGET-	1197.200		
269.200	2.77	4448.77	.00	.00	4448.92	.14	1.00	.00	4448.40
1650.	238.	545.	867.	186.	119.	433.	6.	9.	4448.20
.17	1.28	4.59	2.00	.050	.035	.045	.000	4446.00	1733.98
.004735	190.	210.	190.	5	0	0	.00	1098.02	2832.00

0
 *SECNO 271.300

3470 ENCROACHMENT STATIONS-		2416.5	3333.0	TYPE-	1	TARGET-	916.500		
271.300	3.69	4449.69	.00	.00	4449.79	.10	.87	.00	4448.00
1825.	150.	262.	1413.	80.	55.	711.	9.	13.	4448.00
.19	1.88	4.77	1.99	.050	.035	.045	.000	4446.00	2425.92
.003876	210.	210.	200.	2	0	0	.00	907.08	3333.00

0
 1
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THIS RUN EXECUTED 1/14/94 10:24:24

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01.02.03
 MODIFICATION -

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

ORANGE
 SUMMARY PRINTOUT

SECNO	STENCL	Q	CWSEL	STENCR	QLOB	QCH
* 258.200	.00	500.00	4444.94	1186.10	500.00	.00
* 262.400	.00	200.00	4446.92	1578.30	200.00	.00
267.100	1257.20	650.00	4447.73	1891.60	380.36	264.34
* 269.200	1634.80	1650.00	4448.77	2832.00	237.87	545.20
271.300	2416.50	1825.00	4449.69	3333.00	149.62	262.04

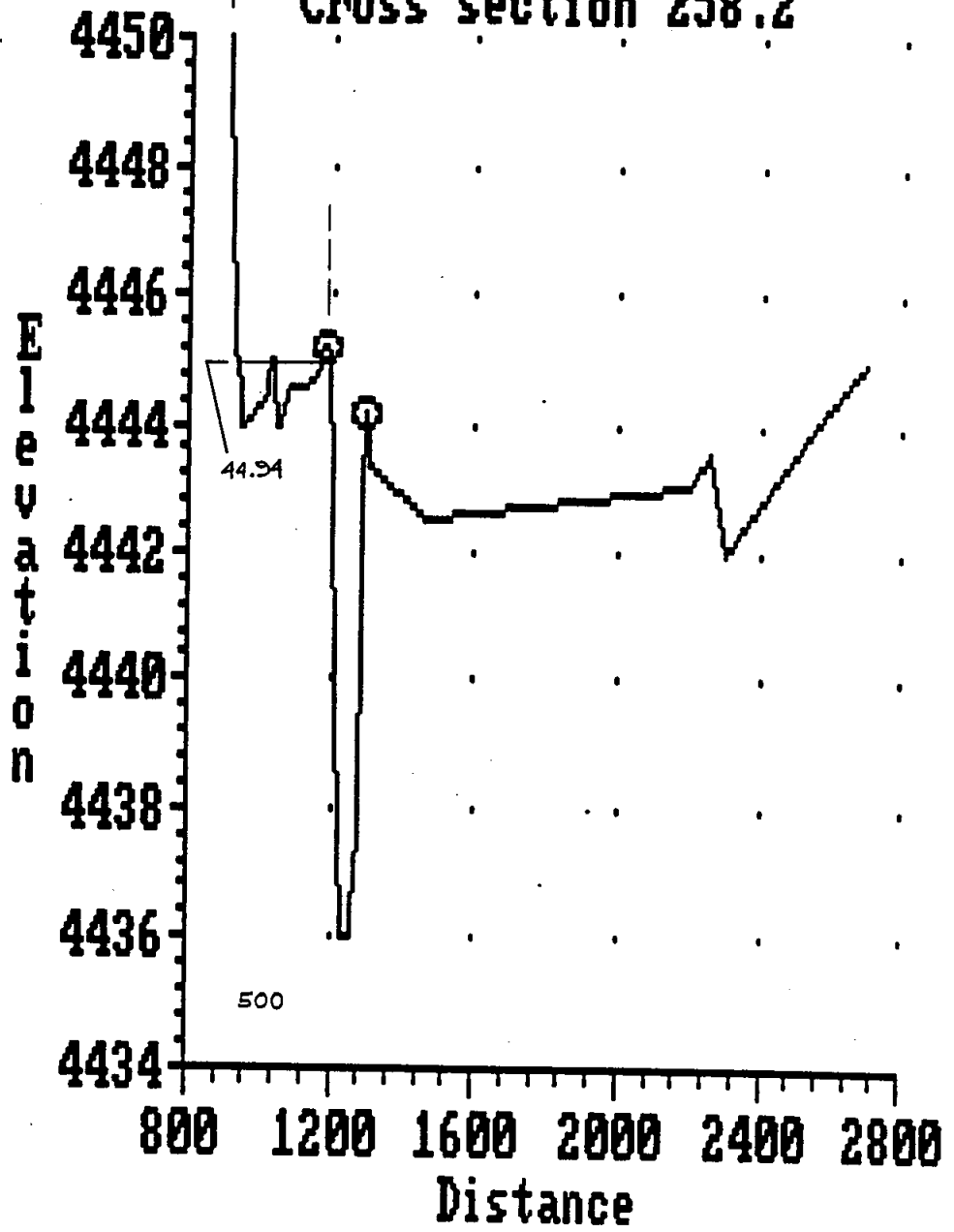
1
 1/14/94 10:24:11

PAGE 7

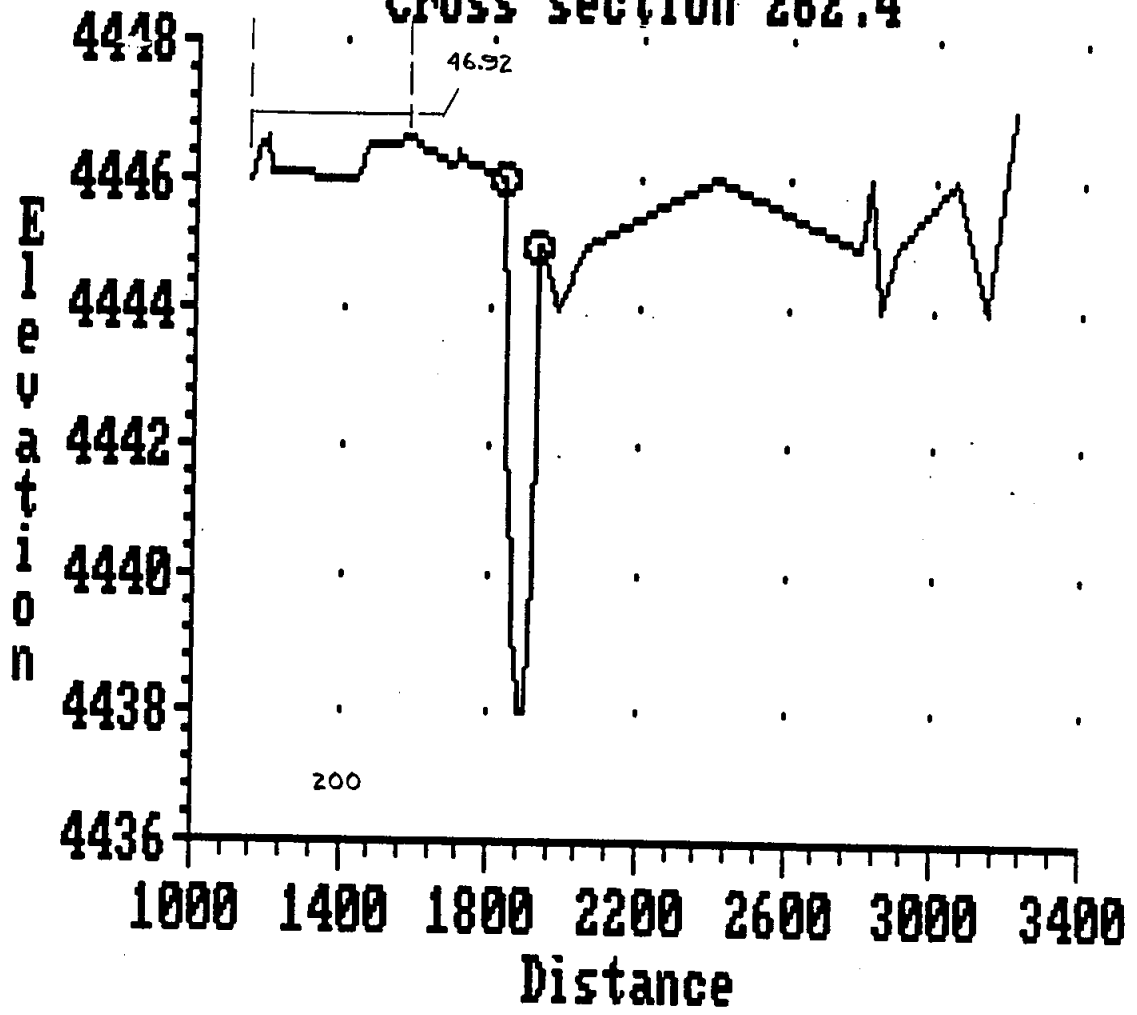
SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO- 258.200 PROFILE- 1 CRITICAL DEPTH ASSUMED
 WARNING SECNO- 262.400 PROFILE- 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO- 269.200 PROFILE- 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

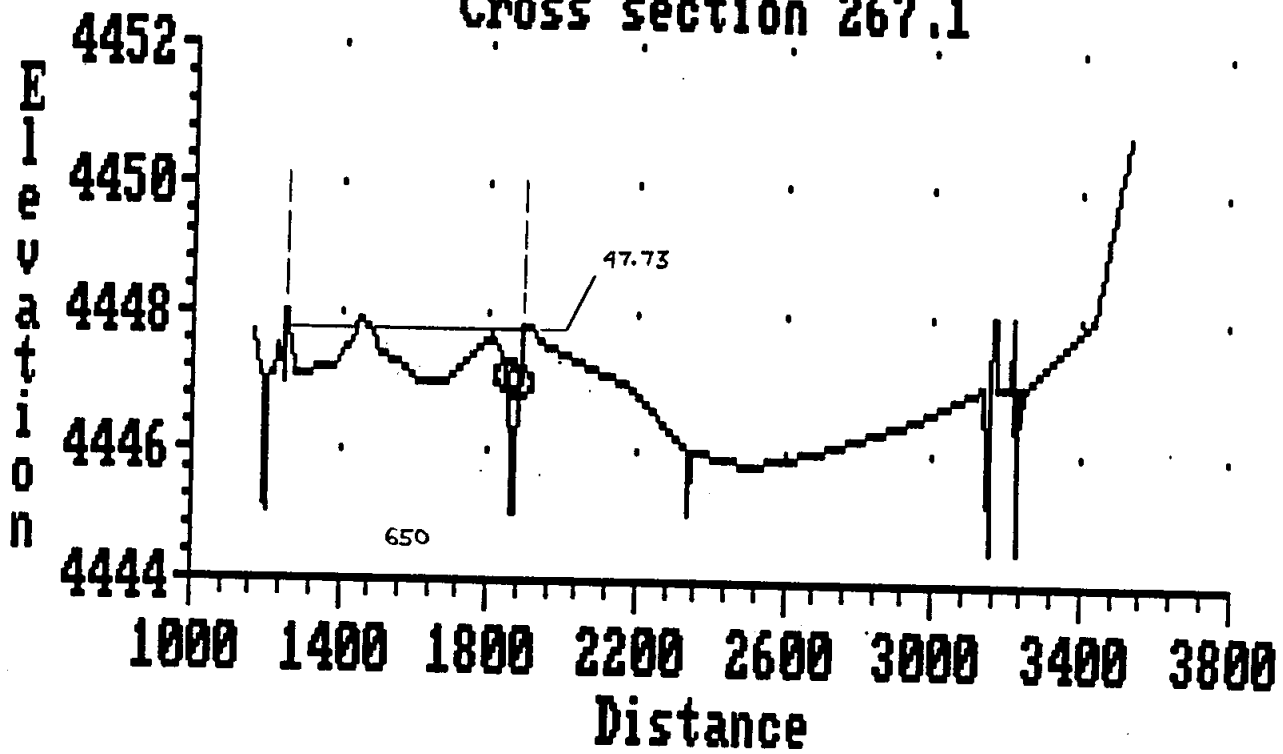
Cross section 258.2



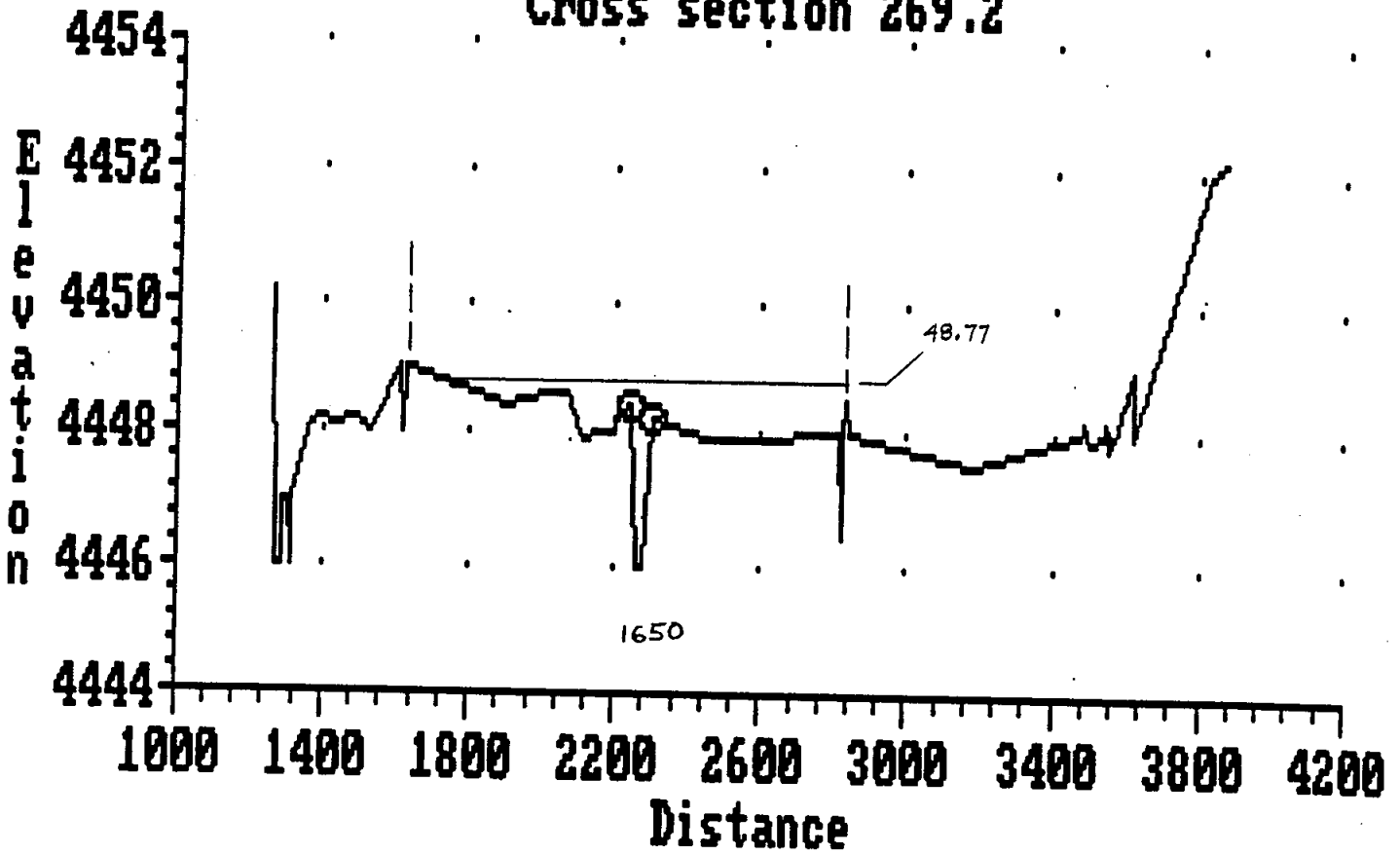
Cross section 262.4



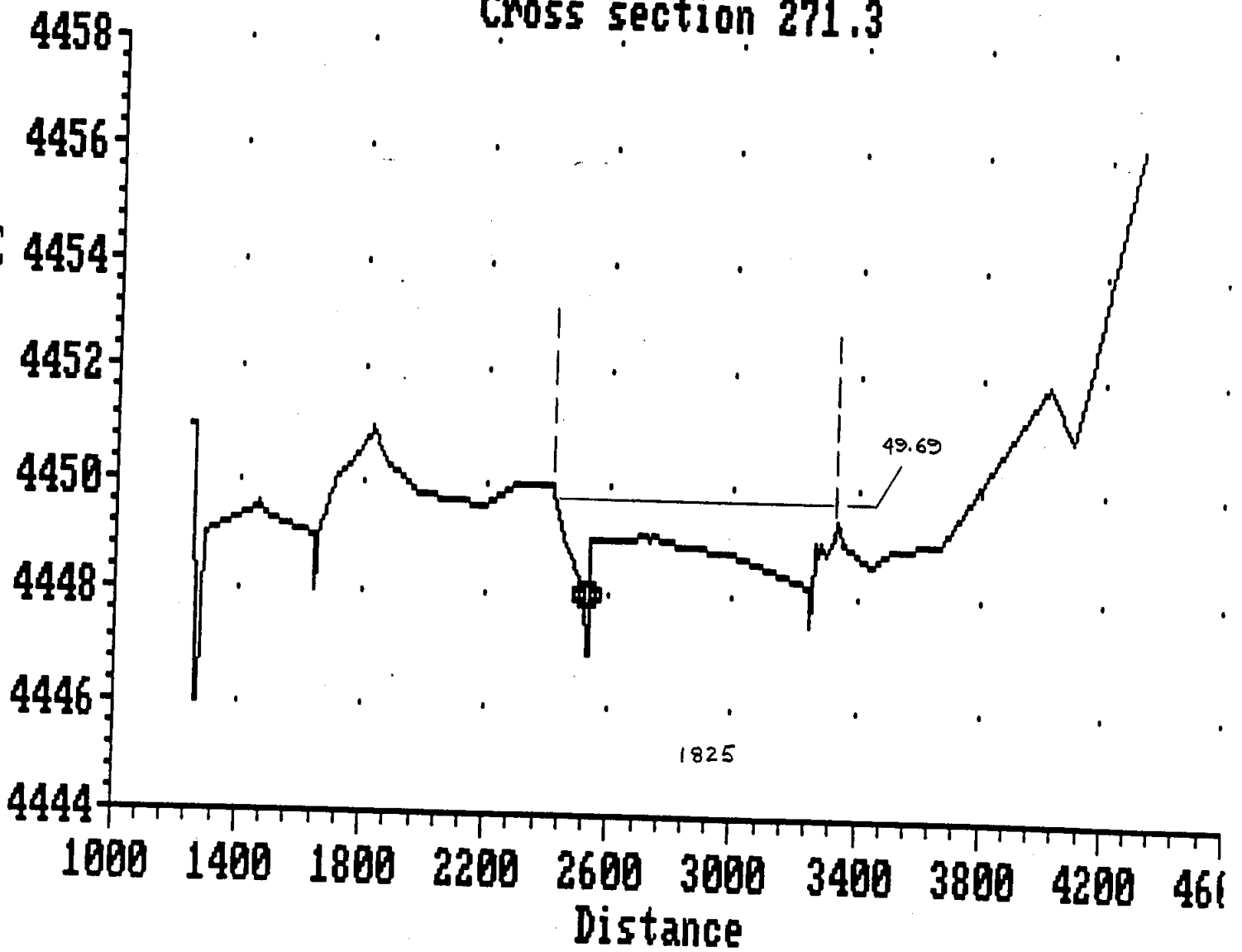
Cross section 267.1

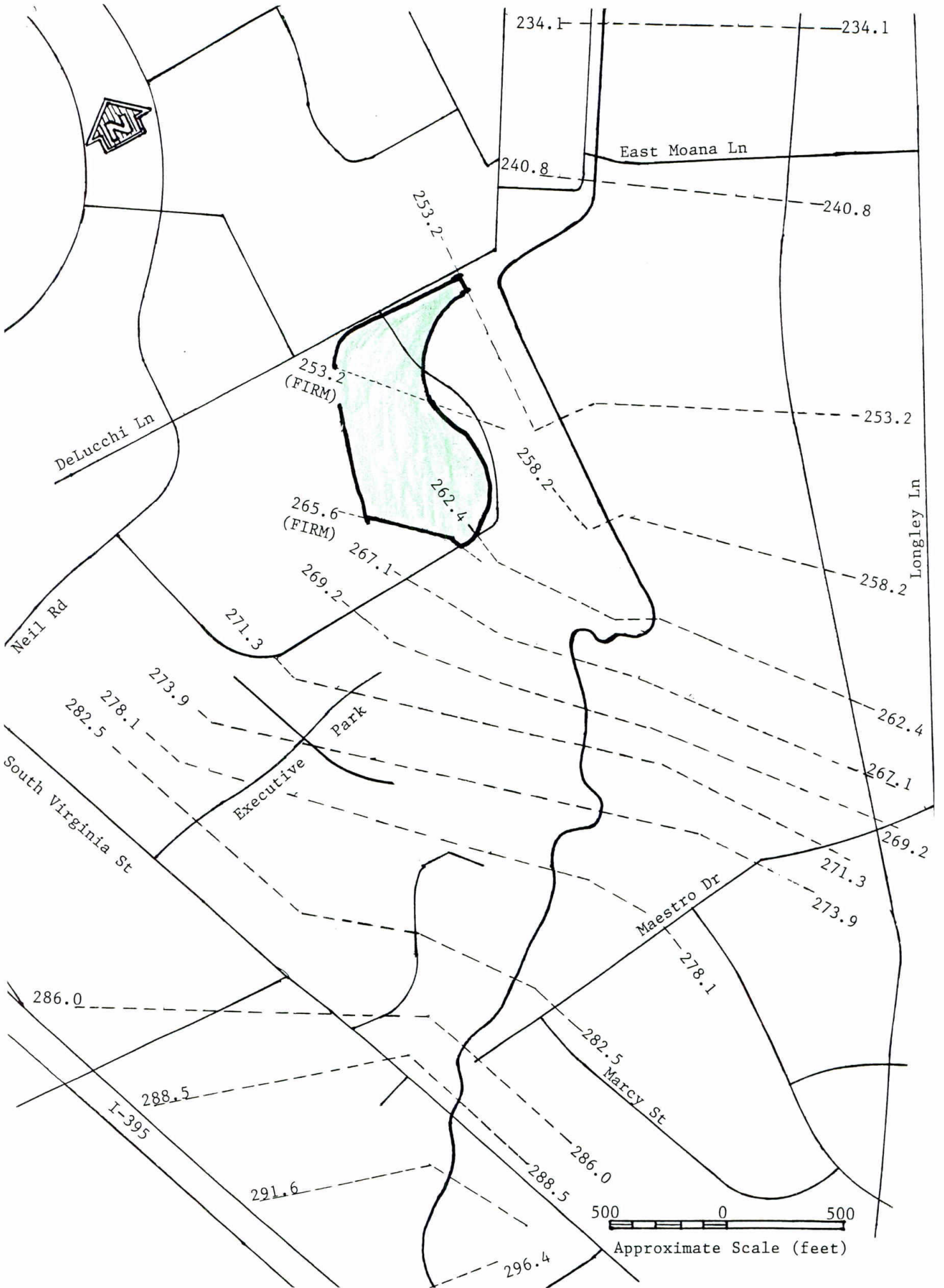


Cross section 269.2



Cross section 271.3





Approximate Scale (feet)

 * WATER SURFACE PROFILES *
 * VERSION OF SEPTEMBER 1988 *
 * ERROR: 01,02,03 *
 * UPDATED: SEPTEMBER 1989 *
 * RUN DATE 1/14/94 TIME 10:11: 6 *

 * U.S. ARMY CORPS OF ENGINEERS *
 * THE HYDROLOGIC ENGINEERING CENTER *
 * 609 SECOND STREET, SUITE D *
 * DAVIS, CALIFORNIA 95616-4687 *
 * (916) 756-1104 *

```

X   X   XXXXXX   XXXX
X   X   X       X   X
X   X   X       X
XXXXXX XXXX   X   XXXX
X   X   X       X
X   X   X       X   X
X   X   XXXXXX   XXXX
  
```

KND OF BANNER
 1 1/14/94 10:11: 6

PAGE 1

THIS RUN EXECUTED 1/14/94 10:11: 7

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
 MODIFICATION -

T1 DRY CREEK - APPEAL RESOLUTION
 T2 LEFTLEFT.DAT
 T3 GREEN

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	EVINS	Q	WSKL	FQ
	0	2	0	0	-1	0	0	0	4436.0	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1	0	-1				-1			

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	1	2	27	53	54	28	55
----	----	---	---	----	----	----	----	----

GR DATA FROM K/J MODEL DRY.DAT
 GR DATA MODIFIED IN LEFT OVBANK BASED ON 1:4800 SCALE WORKMAP

NC	.050	.045	.035	.1	.3					
QT	1	1275								
ET		9.1							20.0	690.0
X1	253.2	48	817.4	917.8	0	0	0			
GR	4438	20	4436	60	4435	80	4436	110	4440	130
GR	4444	469	4444	470	4444.0	610.0	4447.0	690.0	4444.0	720.0
GR	4448.0	721.5	4442.4	779.2	4443.1	817.4	4434.6	845.7	4435.0	852.4
GR	4433.6	858.7	4433.3	883.0	4435.1	897.2	4442.2	917.8	4441.6	1029.1
GR	4441.6	1162.0	4441.3	1240.0	4440.8	1300.0	4440.4	1373.0	4440.8	1465.0
GR	4441.6	1483.4	4441.3	1505.2	4442.0	1512.1	4442.3	1638.8	4443.3	1716.5
GR	4442.8	1803.0	4442.5	1865.6	4443.8	1882.8	4443.0	1893.2	4441.2	1919.7
GR	4442.1	1925.8	4437.8	1936.8	4440.5	1954.8	4439.4	2068.8	4439.2	2174.1
GR	4436.0	2191.4	4439.0	2209.8	4439.0	2295.9	4439.6	2372.9	4437.1	2378.8
GR	4441.9	2382.8	4442.1	2399.0	4442.6	2430.0				

GR DATA FROM NIMBUS MODEL DRYMID_F.DAT

NC	NH	4	.05	1141.5	.045	1237.4	.040	1337.8	.045	2850
QT	1	675								
ET		9.1							254.7	1010

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X1	253.2	48	1237.4	1337.8	450	450	450			
GR	4442.3	254.7	4441.9	305.3	4440.8	400	4441.0	600	4442.0	700
GR	4444	851	4446	860	4447.5	1010	4447	1120	4444	1140
GR	4448.0	1141.5	4442.4	1199.2	4443.1	1237.4	4434.6	1265.7	4435.0	1272.4
GR	4433.6	1278.7	4433.3	1303.0	4435.1	1317.2	4442.2	1337.8	4441.6	1449.1
GR	4441.6	1582.5	4441.3	1660.5	4440.8	1720.2	4440.4	1793.3	4440.8	1885.5
GR	4441.6	1903.4	4441.3	1925.2	4442.0	1932.1	4442.3	2058.8	4443.3	2136.5
GR	4442.8	2223.0	4442.5	2285.6	4443.8	2302.8	4442.0	2313.2	4441.2	2339.7
GR	4442.1	2345.8	4437.8	2356.8	4440.5	2374.8	4439.4	2488.8	4439.2	2594.1
GR	4436.0	2611.4	4439.0	2629.8	4439.0	2715.9	4439.6	2792.9	4437.1	2798.8
GR	4441.9	2802.8	4442.1	2819.0	4442.6	2850.0				

GR DATA FROM NIMBUS MODEL DRYMID_F.DAT

NC	NH	4	.08	1000	.045	1550	.035	1600	.06	2160
QT	1	675								
ET		9.1							470	1000
X1	265.6	30	1550	1600	600	600	600			
GR	4446.4	470	4446	500	4444	570	4446	580	4445.7	700
GR	4444.0	780	4444.0	810	4445.2	880	4446.0	910	4446	950
GR	4446.3	1000	4444	1025	4444	1030	4445	1035	4444	1040
GR	4445.7	1055	4445.7	1110	4445.5	1160	4445.8	1400	4446	1460
GR	4446	1550	4443.5	1555	4443.5	1570	4447.4	1600	4447.1	1800
GR	4446.9	2030	4446.9	2140	4445	2145	4445	2155	4447.5	2160

SECNO	DEPTH	CWSEL	CRIMS	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

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCEV= .100 CEEV= .300
*SECNO 253.200
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	20.0	690.0	TYPE=	1	TARGET=	670.000
253.200	4.66	4437.96	4437.96	.00	4438.82	.86
1275.	1275.	0.	0.	171.	0.	0.
.00	7.45	.00	.00	.050	.000	.000
.024977	0.	0.	0.	0	16	0
						.00
						4433.30
						20.78
						99.02
						119.80

CCEV= .100 CEEV= .300
1490 NH CARD USED
*SECNO 253.200

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.78

3470 ENCROACHMENT STATIONS=	254.7	1010.0	TYPE=	1	TARGET=	755.300
253.200	8.96	4442.26	4441.62	.00	4442.30	.04
675.	675.	0.	0.	447.	0.	0.
.08	1.51	.00	.00	.050	.000	.000
.002201	450.	450.	450.	9	24	0
						.00
						4433.30
						259.27
						460.64
						719.91

CCEV= .300 CEEV= .500
1490 NH CARD USED
*SECNO 265.600

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .26

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

3470 ENCROACHMENT STATIONS=	470.0	1000.0	TYPE=	1	TARGET=	530.000
265.600	2.02	4445.52	4445.19	.00	4445.67	.16
675.	675.	0.	0.	211.	0.	0.
.13	3.20	.00	.00	.080	.000	.000
.031884	600.	600.	600.	4	25	0
						.00
						4443.50
						517.00
						243.59
						891.78

THIS RUN EXECUTED 1/14/94 10:11:17

HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01.02.03
MODIFICATION -

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

GREEN

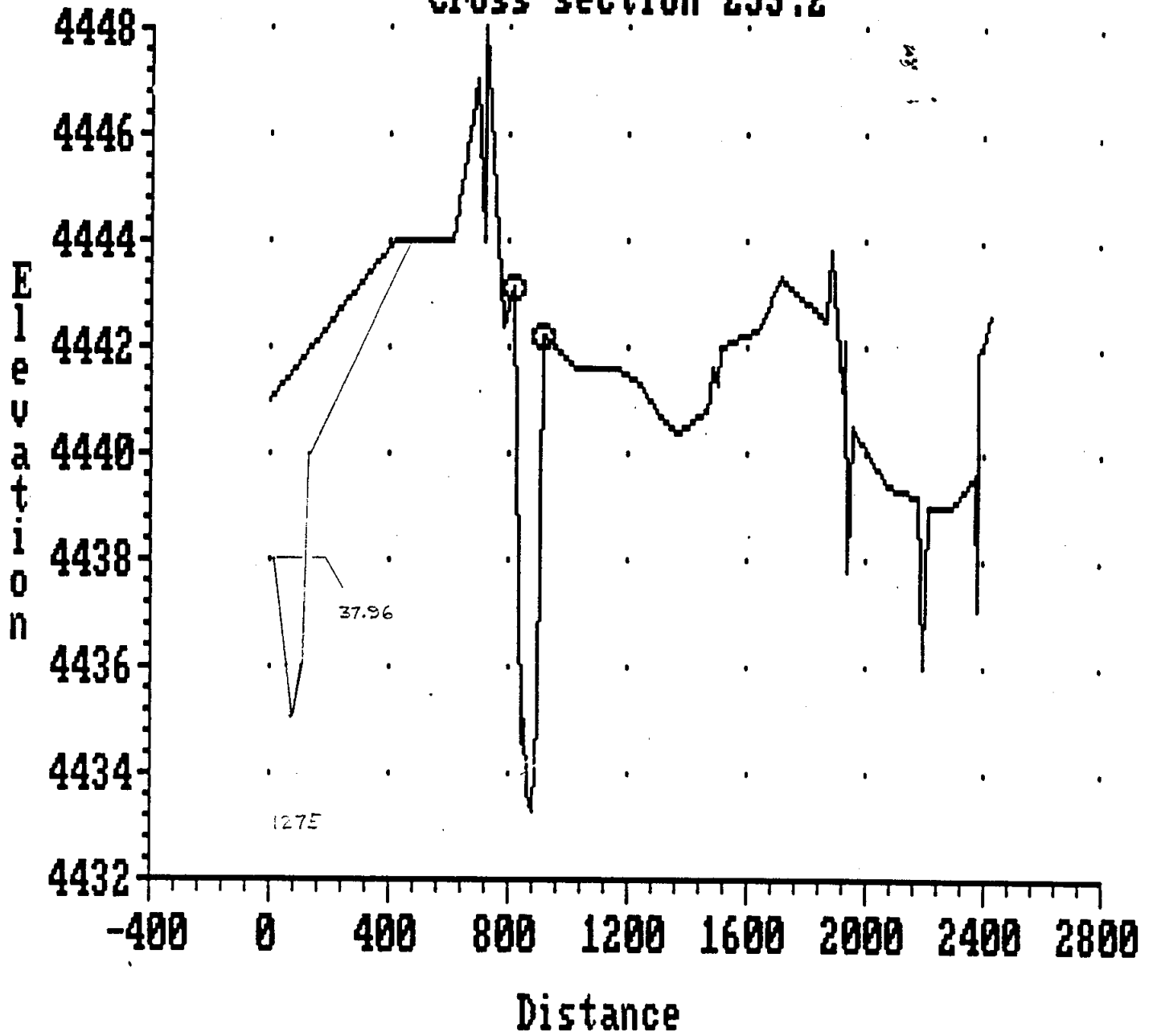
SUMMARY PRINTOUT

SECNO	Q	CWSEL	CRIMS	STENCL	SSTA	ENDST	STENCR	VLOB
* 253.200	1275.00	4437.96	4437.96	20.00	20.78	119.80	690.00	7.45
* 253.200	675.00	4442.26	4441.62	254.70	259.27	719.91	1010.00	1.51
* 265.600	675.00	4445.52	4445.19	470.00	517.00	891.78	1000.00	3.20

SUMMARY OF ERRORS AND SPECIAL NOTES

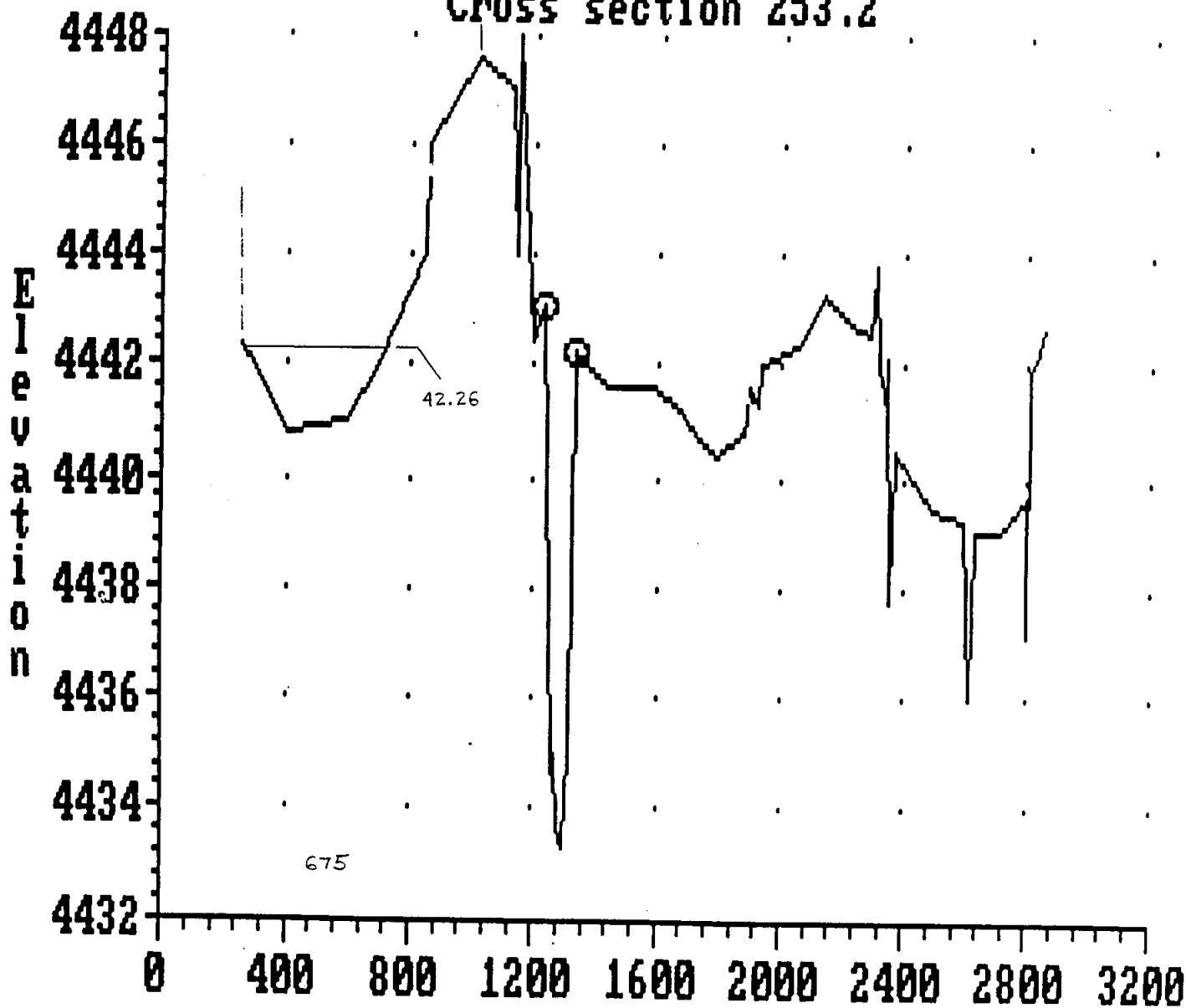
CAUTION SECNO= 253.200 PROFILE= 1 CRITICAL DEPTH ASSUMED
 WARNING SECNO= 253.200 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO= 265.600 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

Cross section 253.2

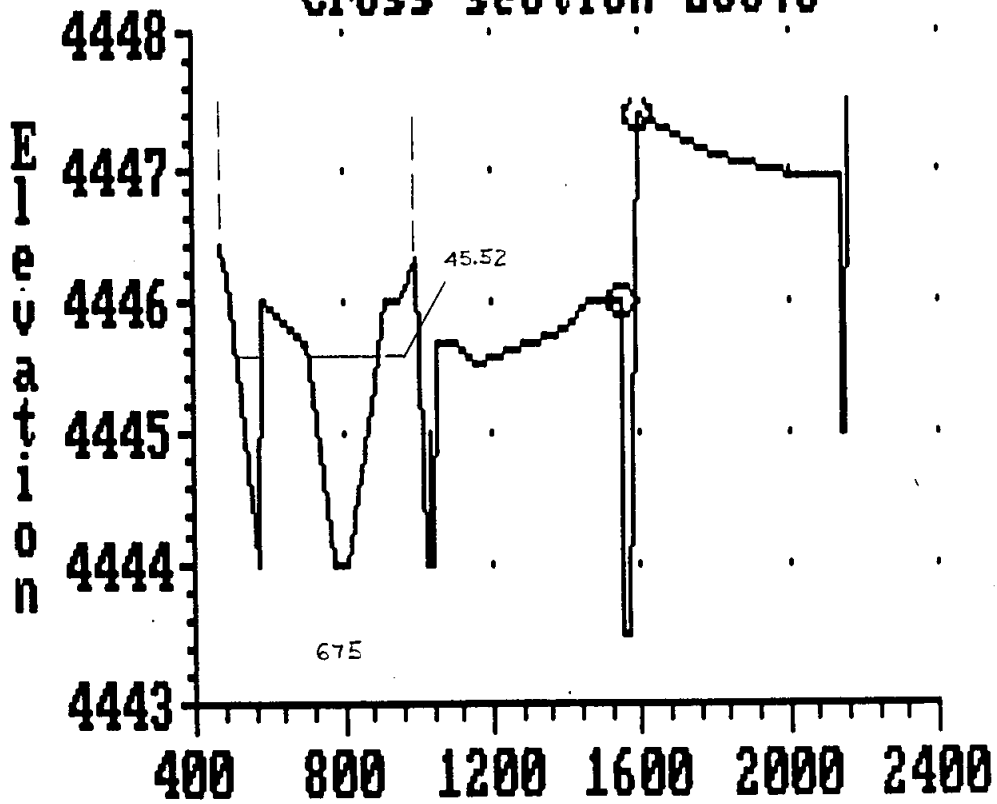


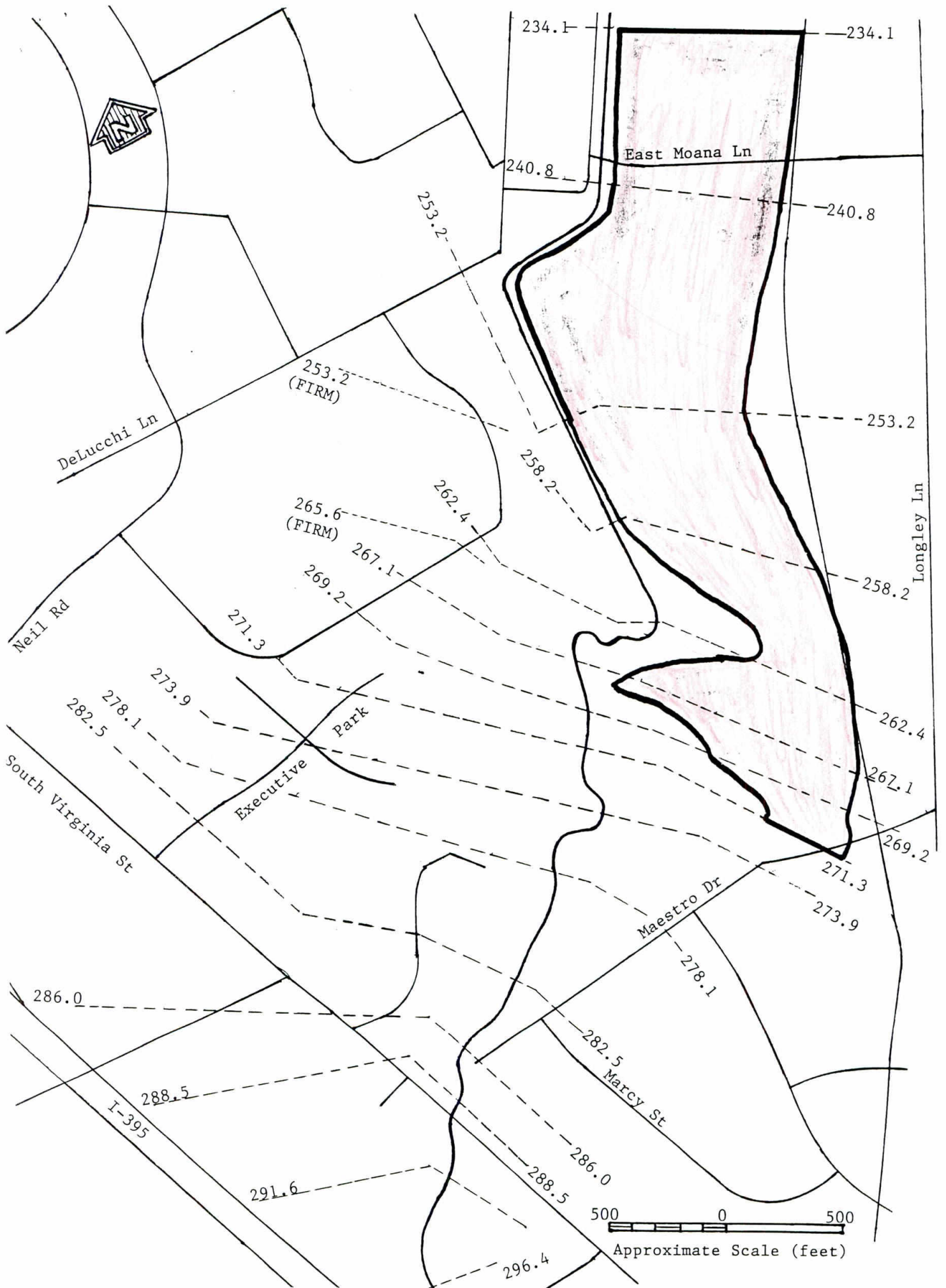
....

Middle Dry Creek Cross section 253.2



Middle Dry Creek Cross section 265.6





1*****
 * WATER SURFACE PROFILES *
 * VERSION OF SEPTEMBER 1988 *
 * ERROR: 01,02,03 *
 * UPDATED: SEPTEMBER 1989 *
 * RUN DATE 1/14/94 TIME 11: 2: 0 *

 * U.S. ARMY CORPS OF ENGINEERS *
 * THE HYDROLOGIC ENGINEERING CENTER *
 * 609 SECOND STREET, SUITE D *
 * DAVIS, CALIFORNIA 95616-4687 *
 * (916) 756-1104 *

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X   X   XXXXXX   XXXX
X   X   X   X   X   X
X   X   X   X   X   X
XXXXXX XXXX   X   X
X   X   X   X   X   X
X   X   X   X   X   X
X   X   XXXXXX   XXXX

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END OF BANDWER
 1 1/14/94 11: 2: 0

PAGE 1

THIS RUN EXECUTED 1/14/94 11: 2: 0

 HEC2 RELEASE DATED SEP 86 UPDATED SEPT 1989

ERROR CORR - 01,02,03
 MODIFICATION -

T1 DRY CREEK - APPEAL RESOLUTION
 T2 RIGHT.DAT
 T3 RED

J1	ICHECK	INQ	NINW	IDIR	STRT	METRIC	EVINS	Q	WSEL	FQ
0	2	0	0	.005	0	0	0	0	4425.09	0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
-1	0	-1								

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	38	27	43	1	28	2	3		
QT	1	750							
NC	.035	.035	.03						
ET		9.1						1011.6	1707.7
XI	234.1	48	822.8	922.1	840	840	840		
GR	4432.6	0.0	4433.7	21.2	4432.6	32.2	4433.8	44.7	4434.1
GR	4433.5	88.7	4432.6	116.0	4432.1	259.3	4432.3	356.9	4432.1
GR	4433.2	447.5	4433.2	465.6	4432.1	472.6	4432.3	551.9	4432.5
GR	4431.9	822.8	4423.7	844.3	4422.7	878.5	4425.3	893.1	4433.4
GR	4433.3	949.7	4432.3	959.2	4438.3	975.5	4437.9	1011.6	4431.4
GR	4431.7	1131.3	4431.2	1240.8	4432.9	1259.7	4427.3	1271.1	4431.2
GR	4430.5	1289.2	4431.7	1405.6	4432.0	1566.9	4432.5	1692.8	4428.5
GR	4433.9	1707.7	4433.6	1727.7	4432.2	1740.8	4426.5	1747.8	4432.8
GR	4432.1	1761.9	4431.9	1950.9	4431.6	2090.1	4427.9	2103.3	4429.7
GR	4434.3	2129.2	4434.0	2142.7	4434.6	2174.0			2111.8
NC	.045	.040	.035	.1	.3				
ET		9.1						655.8	1433.5
XI	240.8	53	553	655.8	670	670	670		
GR	4436.7	0.0	4434.0	13.6	4435.5	22.8	4435.6	75.3	4435.4
GR	4437.4	173.4	4437.3	200.1	4436.1	210.9	4435.3	354.3	4435.7
GR	4436.2	553.0	4427.6	578.1	4426.7	592.0	4426.5	614.8	4428.6
GR	4436.8	655.8	4435.9	675.2	4436.8	705.3	4436.8	811.0	4436.4
GR	4436.0	994.7	4435.3	1043.1	4436.8	1056.1	4436.8	1079.7	4436.5
GR	4436.9	1175.4	4437.4	1291.9	4436.0	1371.9	4433.4	1378.2	4436.5
GR	4437.3	1411.8	4437.0	1422.2	4437.6	1433.5	4437.3	1445.5	4436.8
GR	4437.3	1481.4	4433.6	1490.1	4436.1	1496.3	4435.9	1598.0	4435.4
GR	4437.1	1691.0	4432.7	1703.9	4437.6	1718.9	4436.2	1729.1	4436.0
GR	4431.7	1784.9	4431.0	1832.9	4430.2	1887.2	4435.2	1894.4	4435.1

1 1/14/94 11: 2: 0

PAGE 2

GR 4435.8 1921.4 4436.1 1938.6 4436.6 1974.4

 + NEW CROSS SECTION DATA WAS ENTERED BELOW +
 + NUMBERS 265.6, 273.8, AND 280.0 WERE DELETED +

 + MODIFIED THE FLOWS TO REPRESENT THE +
 + RESULTS OF THE SPLIT FLOW ANALYSIS (5-11-93) +
 + == WEIR COEFFICIENT 3.1 +
 + == TRUNCATED CROSS SECTIONS +

***** MODIFIED SECTION 253.2*****

NC	.050	.045	.035	.1	.3				
QT	1	750							
ET		9.1						917.8	1716.5
XI	253.2	43	817.4	917.8	450	1240	1240		
GR	4441.0	0.0	4444.0	420.0	4444.0	610.0	4447.0	690.0	4444.0
GR	4448.0	721.5	4442.4	779.2	4443.1	817.4	4434.6	845.7	4435.0
GR	4433.6	858.7	4433.3	883.0	4435.1	897.2	4442.2	917.8	4441.6
GR	4441.6	1162.0	4441.3	1240.0	4440.8	1300.0	4440.4	1373.0	4440.8
GR	4441.6	1483.4	4441.3	1505.2	4442.0	1512.1	4442.3	1638.8	4443.3
GR	4442.8	1803.0	4442.5	1865.6	4443.8	1882.8	4443.0	1893.2	4441.2
GR	4442.1	1925.8	4437.8	1936.8	4440.5	1954.8	4439.4	2068.8	4439.2
GR	4436.0	2191.4	4439.0	2209.8	4439.0	2295.9	4439.6	2372.9	4437.1
GR	4441.9	2382.8	4442.1	2399.0	4442.6	2430.0			2378.8

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	EV	EL	OLOSS	BANK	KLV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TNA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XMCH	XNR	WTM	KLMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 1

*SECNO 234.100

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=-	1011.6	1707.7	TYPE=-	1	TARGET=-	696.100
234.100	9.16	4431.86	.00	.00	4431.99	.13
750.	0.	0.	750.	0.	0.	259.
.00	.00	.00	2.89	.000	.000	.035
.004983	840.	840.	840.	0	0	27

CCEV=.100 CERV=.300

*SECNO 240.800

3265 DIVIDED FLOW

3280 CROSS SECTION 240.80 EXTENDED .21 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

3470 ENCROACHMENT STATIONS=-	655.8	1433.5	TYPE=-	1	TARGET=-	777.700
240.800	10.31	4436.81	4436.68	.00	4436.99	.18
750.	0.	0.	750.	0.	0.	222.
.05	.00	.00	3.39	.000	.000	.040
.012276	670.	670.	670.	16	13	0

CCEV=.100 CERV=.300

*SECNO 253.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.45

3470 ENCROACHMENT STATIONS=-	917.8	1716.5	TYPE=-	1	TARGET=-	798.700
253.200	8.79	4442.09	.00	.00	4442.13	.04
750.	0.	0.	750.	0.	0.	483.
.28	.00	.00	1.55	.000	.000	.045
.002050	450.	1240.	1240.	14	0	0

1
1/14/94 11: 2: 0

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	EV	EL	OLOSS	BANK	KLV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TNA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XMCH	XNR	WTM	KLMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 258.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.92

3470 ENCROACHMENT STATIONS=-	1298.6	2260.0	TYPE=-	1	TARGET=-	961.400
258.200	7.81	4443.81	.00	.00	4443.82	.01
750.	0.	0.	750.	0.	0.	953.
.89	.00	.00	.79	.000	.000	.045
.000558	1000.	500.	1750.	11	0	0

*SECNO 262.400

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

3470 ENCROACHMENT STATIONS=-	2400.0	2820.0	TYPE=-	1	TARGET=-	420.000
262.400	7.97	4445.97	4445.97	.00	4446.19	.23
750.	0.	0.	750.	0.	0.	196.
.93	.00	.00	3.82	.000	.000	.045
.035200	300.	420.	430.	20	5	0

*SECNO 267.100

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 8.43

3470 ENCROACHMENT STATIONS=-	1891.6	3137.0	TYPE=-	1	TARGET=-	1245.400
267.100	2.73	4447.23	.00	.00	4447.31	.08
2200.	0.	0.	2200.	0.	0.	970.
.95	.00	.00	2.27	.000	.000	.045
.004258	260.	470.	180.	8	0	0

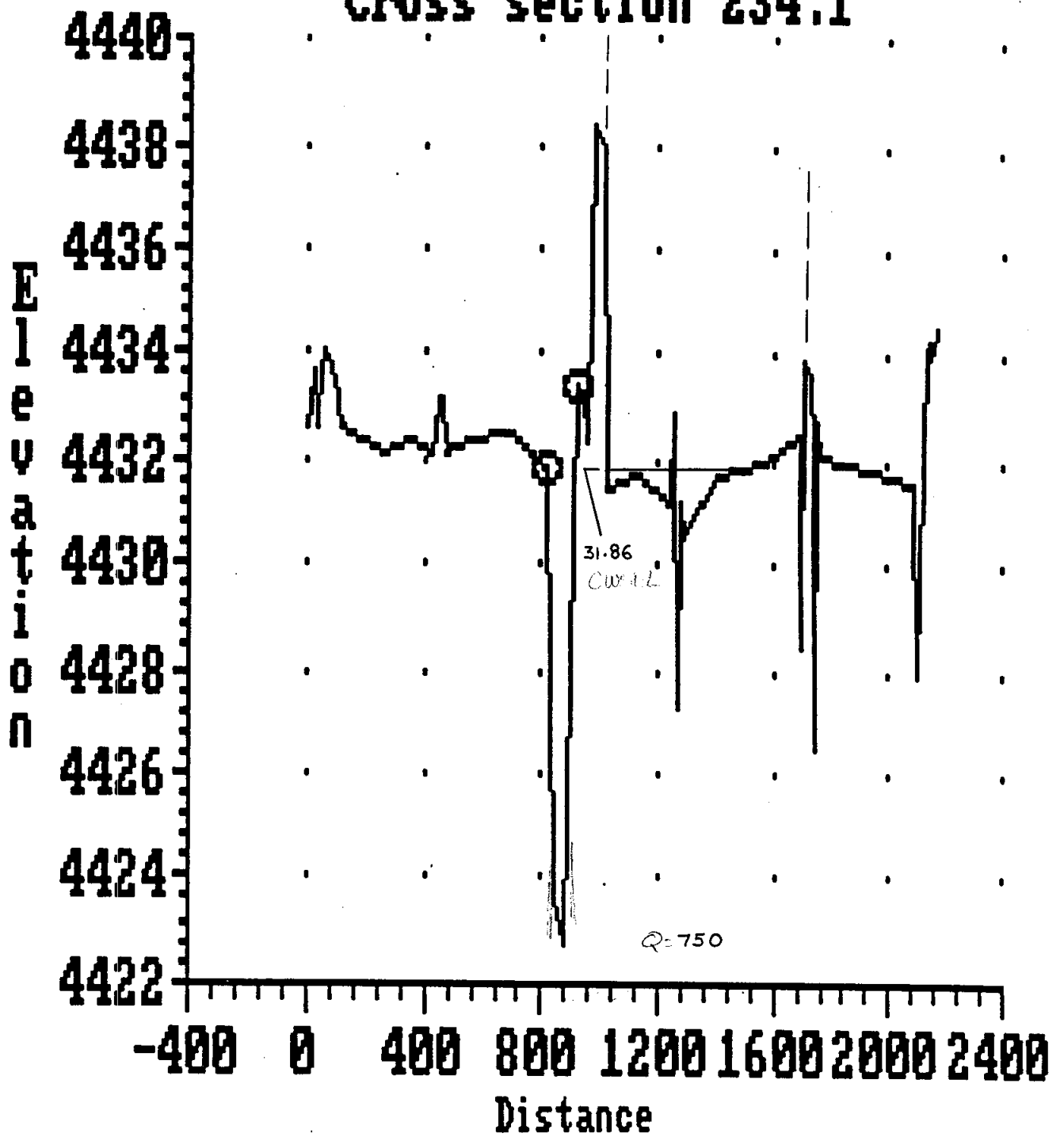
*SECNO 269.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .13

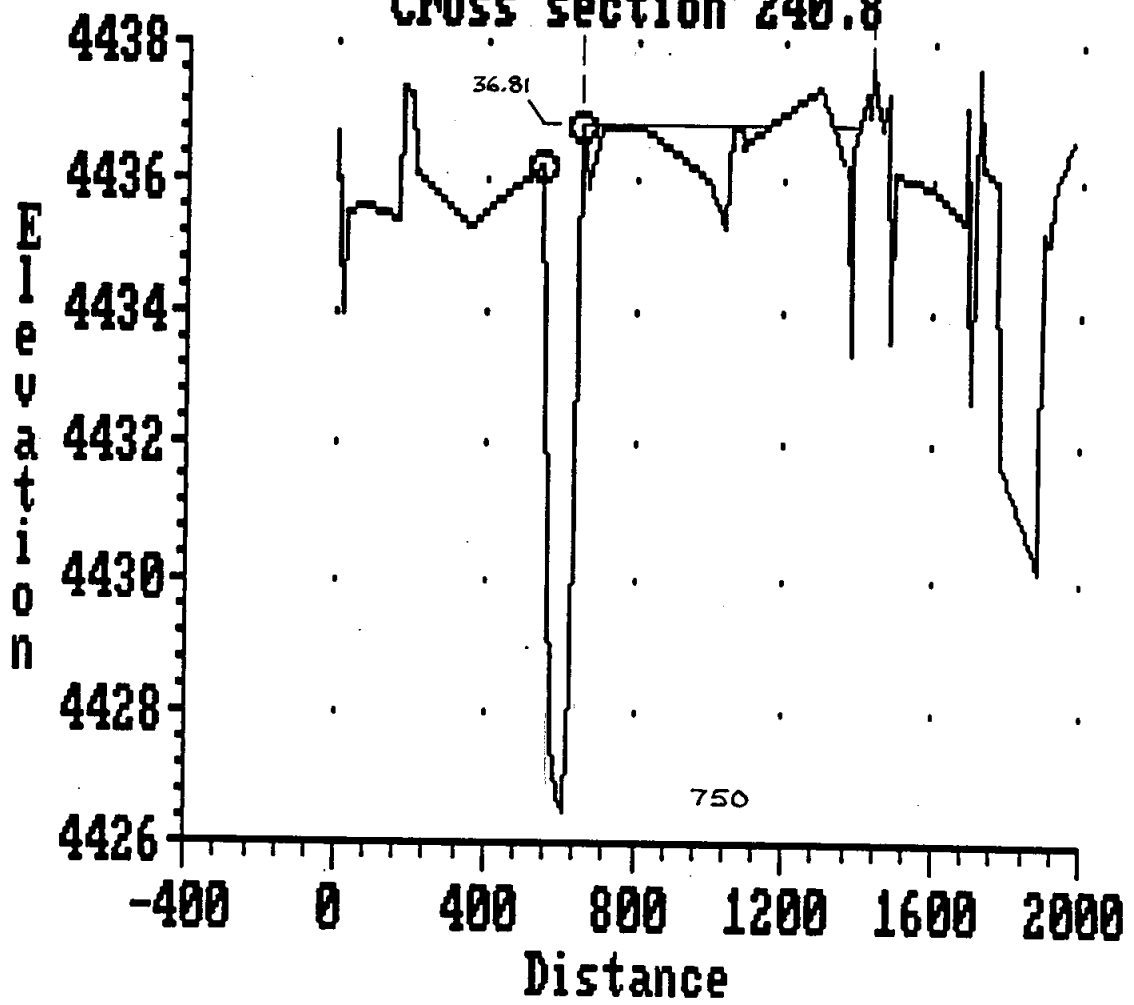
3470 ENCROACHMENT STATIONS=-	2832.0	3483.0	TYPE=-	1	TARGET=-	651.000
269.200	2.14	4448.14	.00	.00	4448.17	.03
350.	0.	0.	350.	0.	0.	247.
.98	.00	.00	1.42	.000	.000	.045
.006556	190.	210.	190.	6	0	0

1

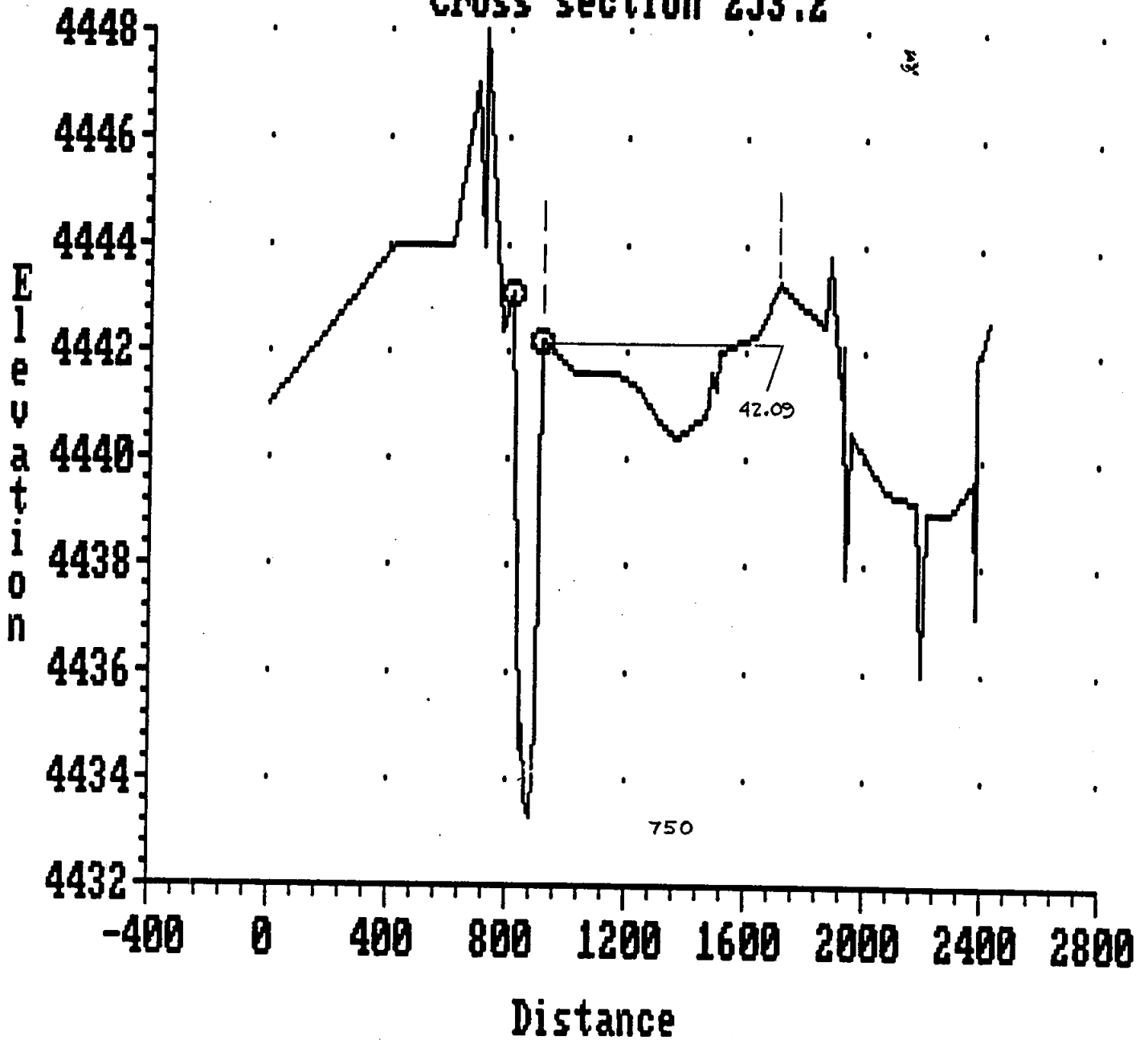
Cross section 234.1



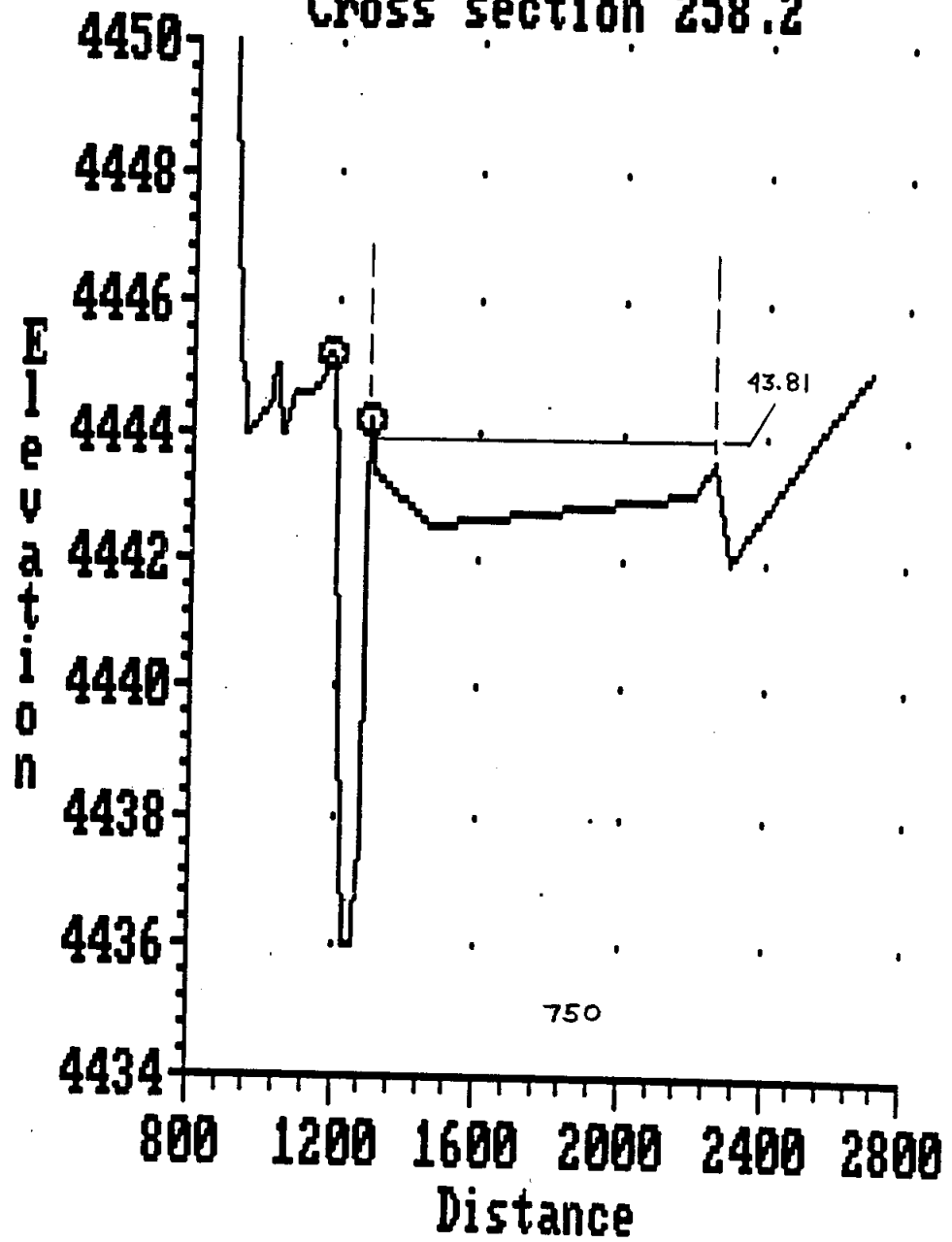
Cross section 240.8



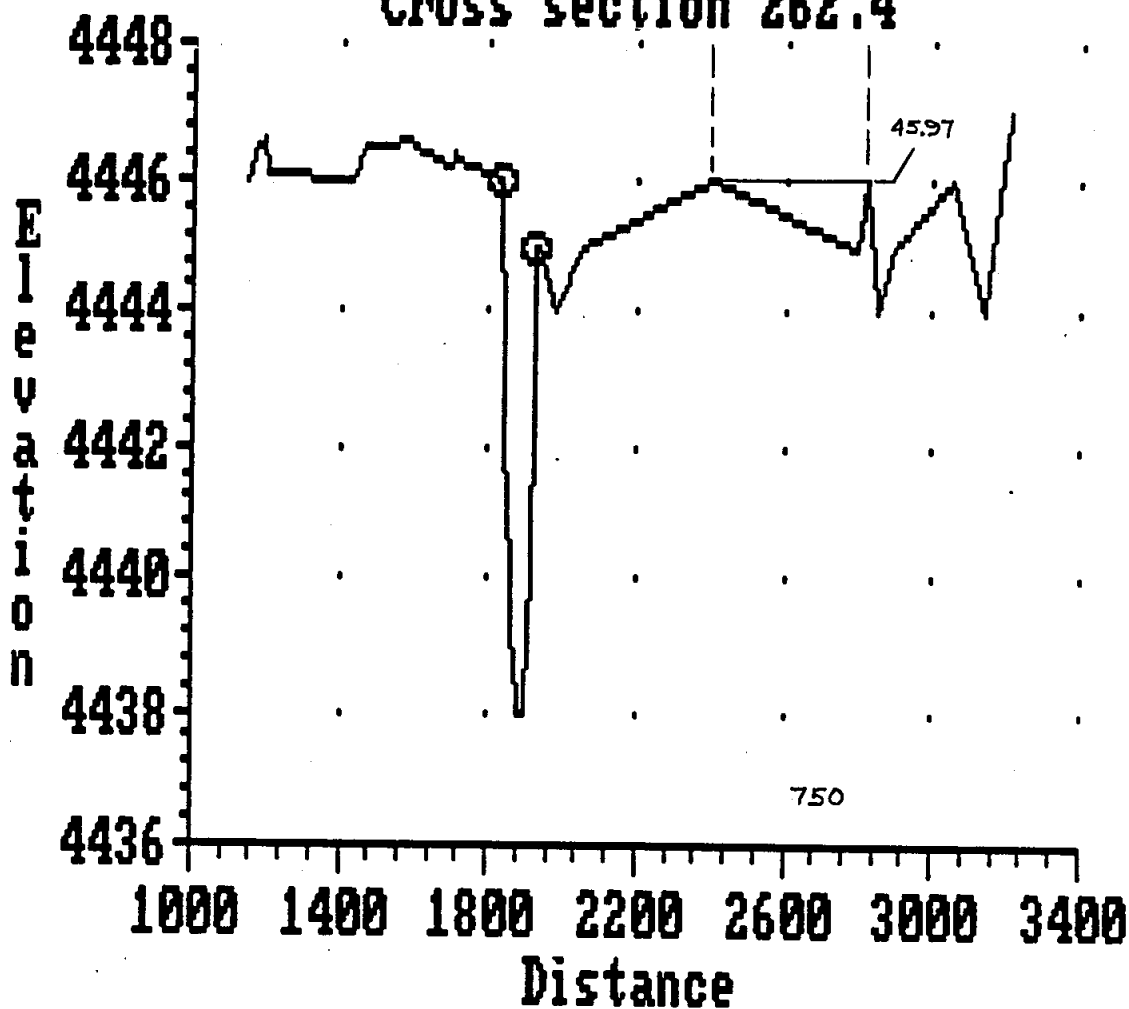
Cross section 253.2



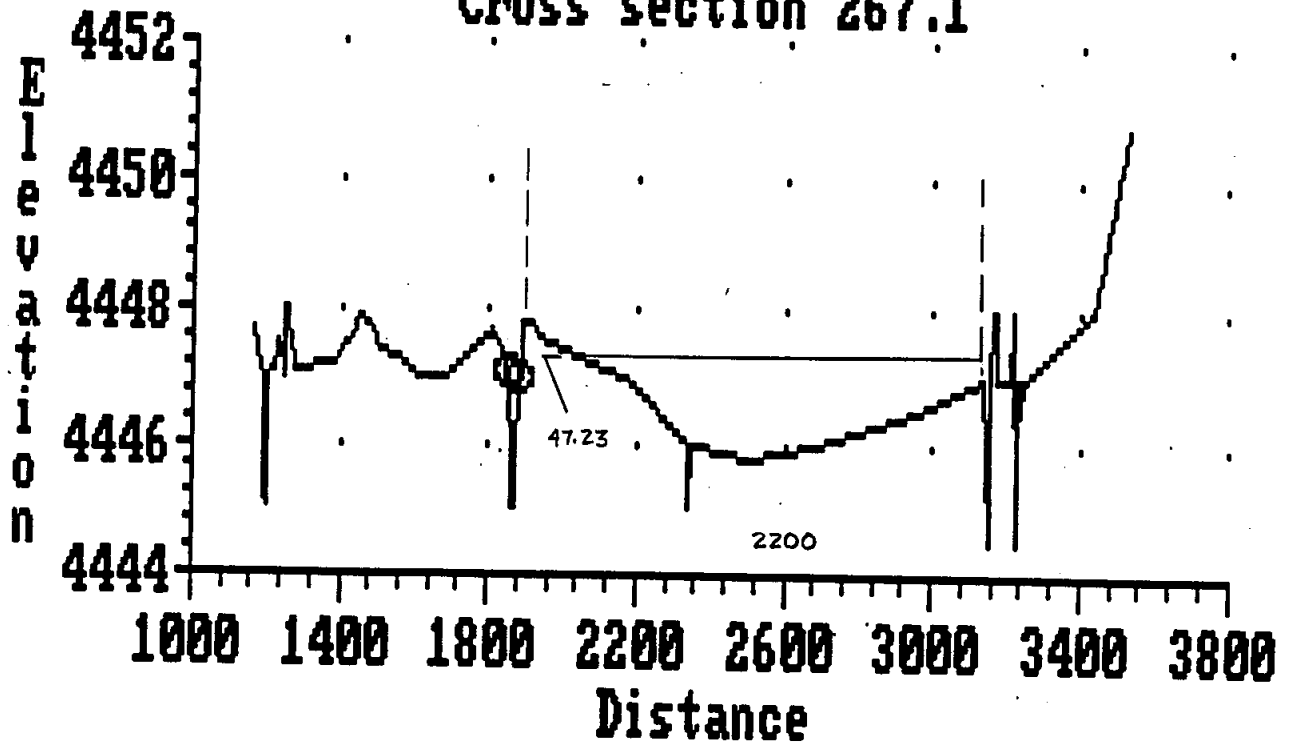
Cross section 258.2



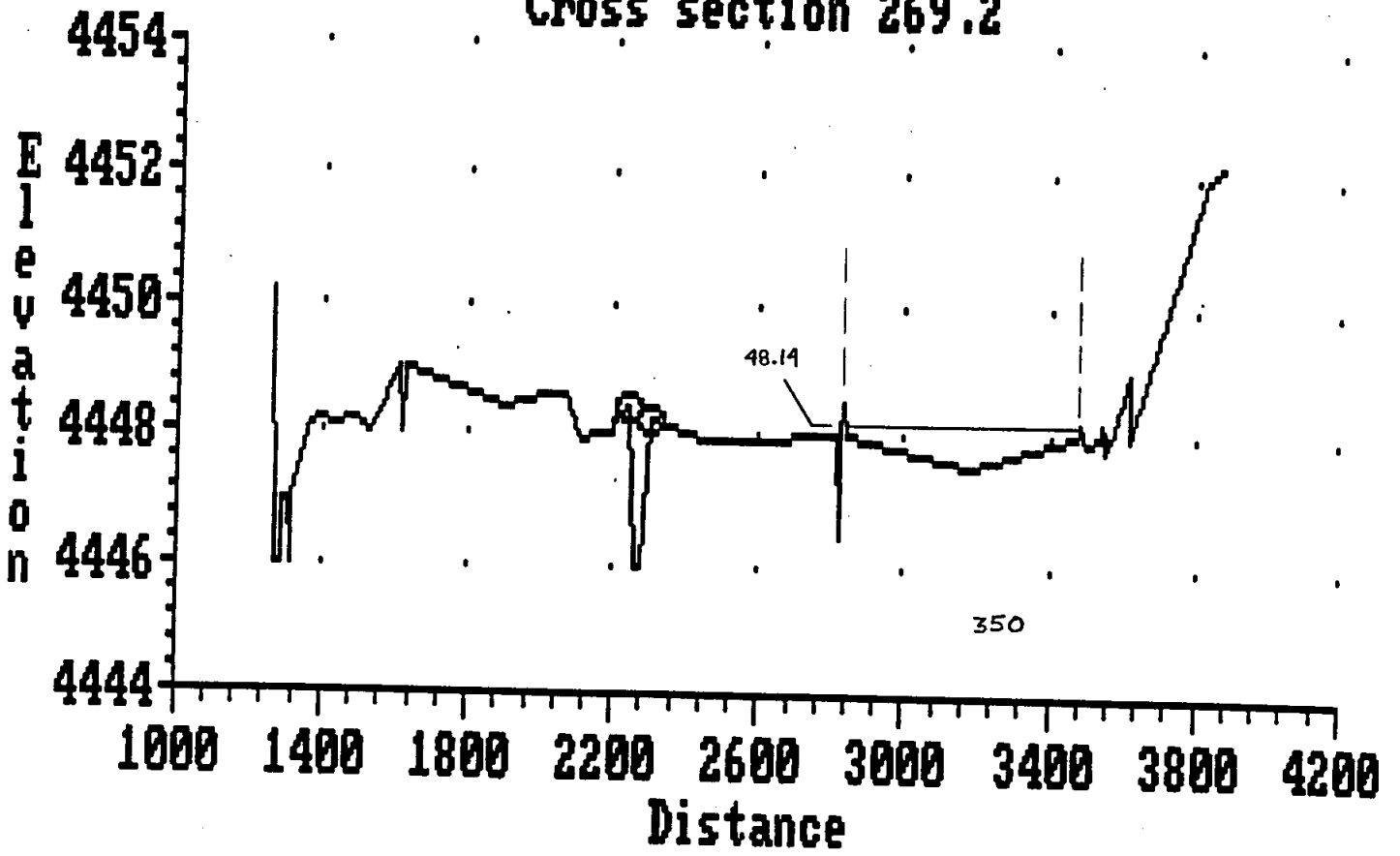
Cross section 262.4



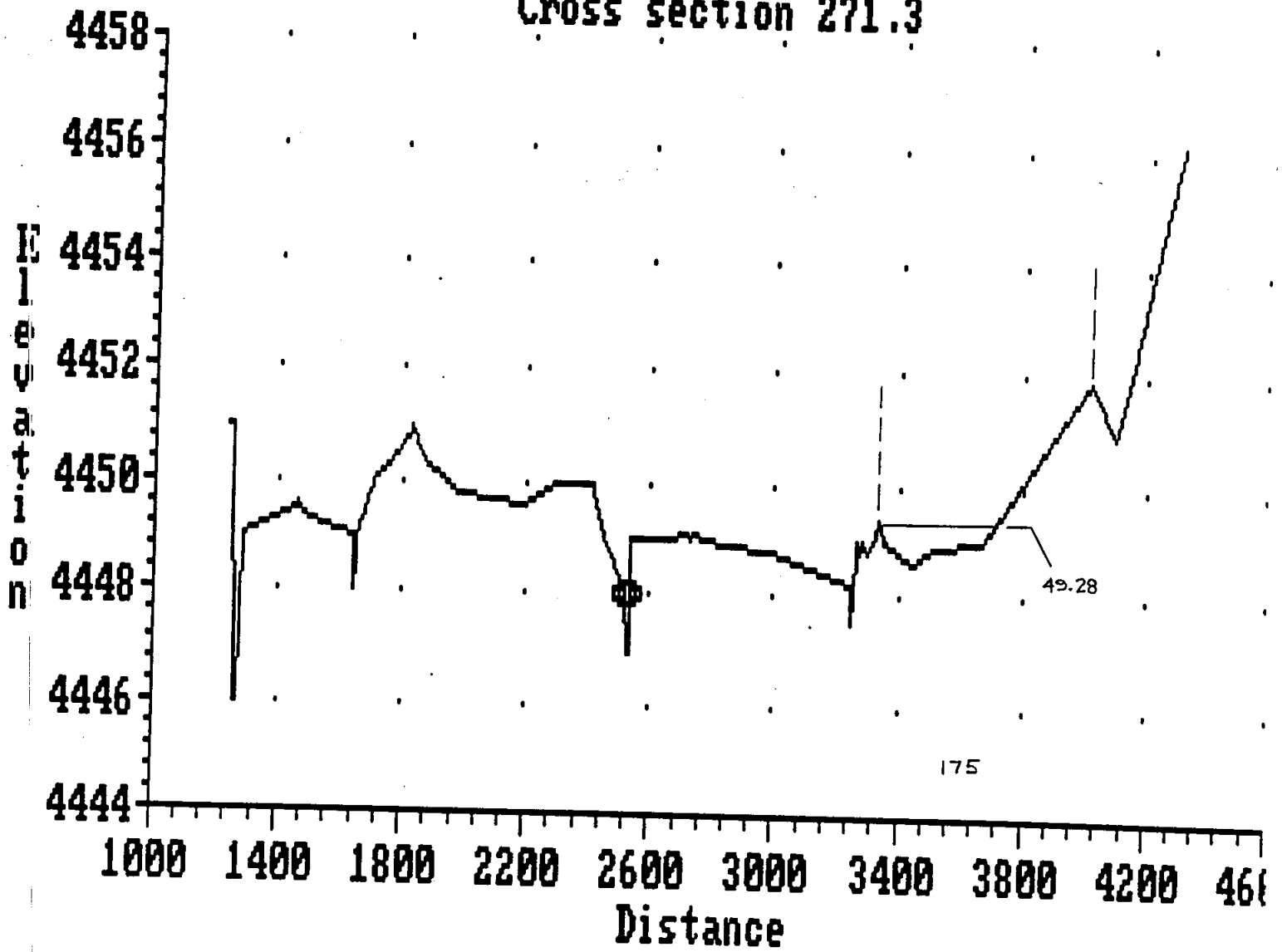
Cross section 267.1

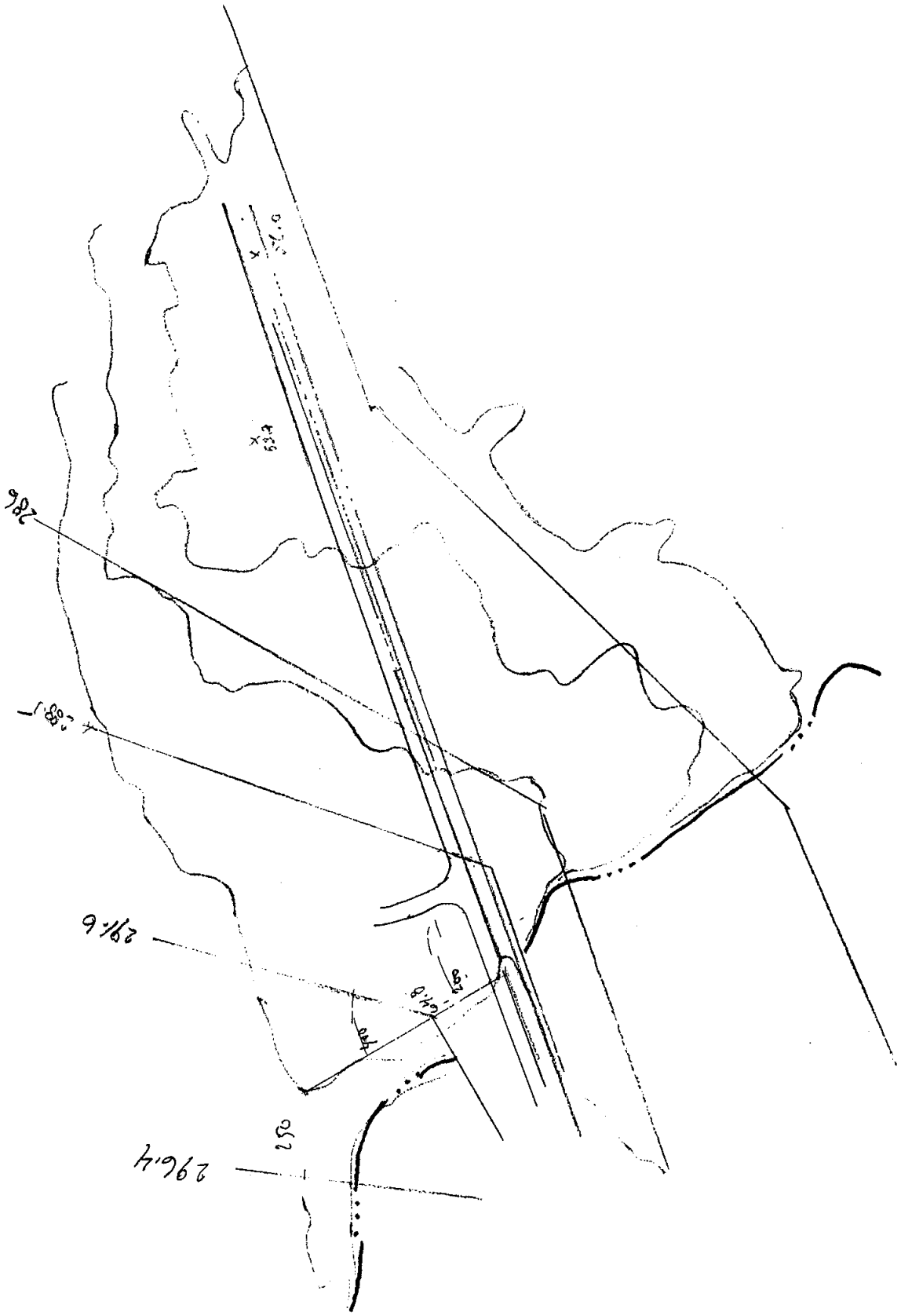


Cross section 269.2



Cross section 271.3







S.O. No. _____

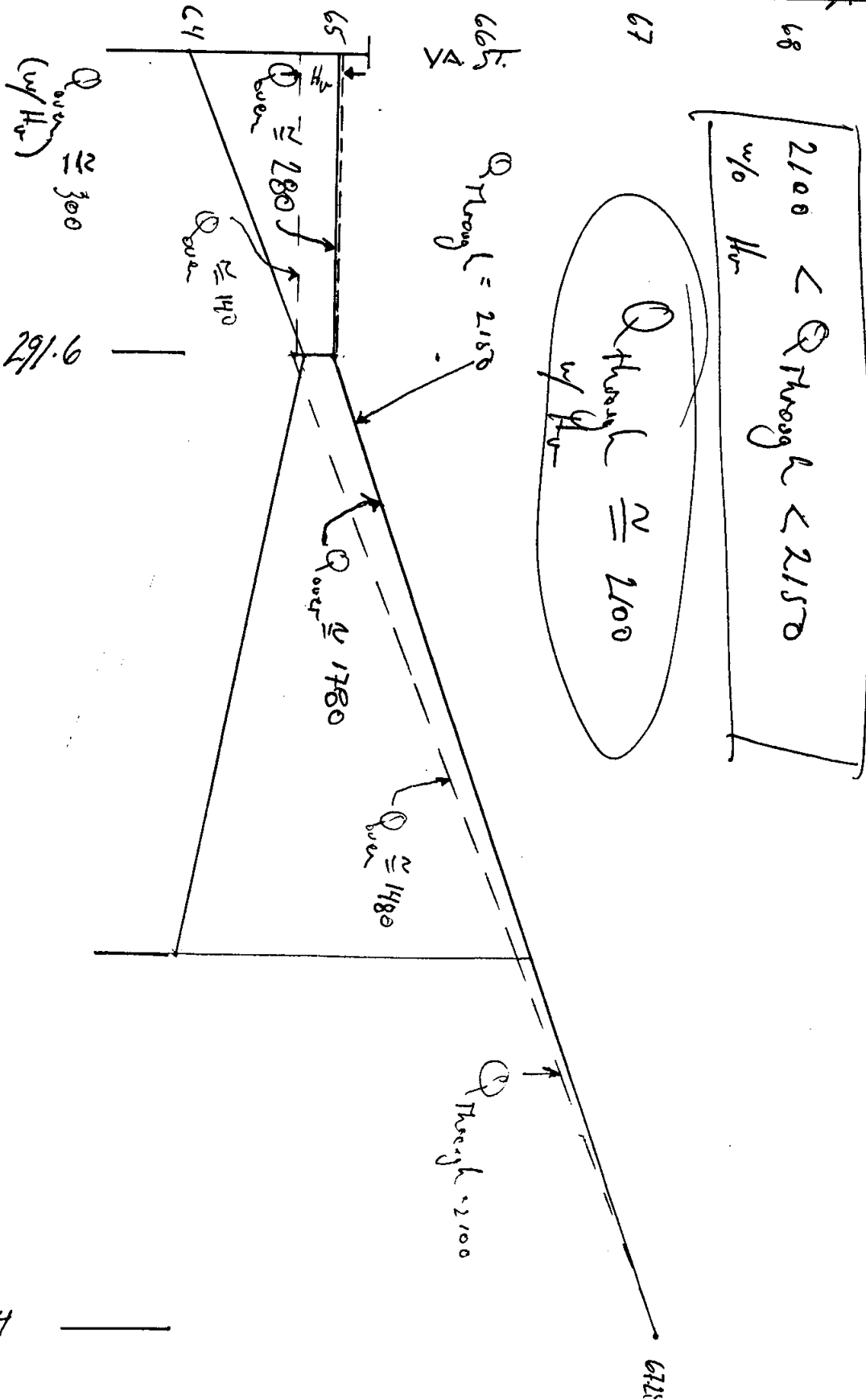
Subject: Read MC
Flow Inside of V.A.S.T.

Sheet No. _____ of _____

Drawing No. _____

Computed by EN Checked By _____

Date 1.10.99



296.4

 * WATER SURFACE PROFILES *
 * VERSION OF SEPTEMBER 1988 *
 * ERROR: 01,02,03 *
 * UPDATED: SEPTEMBER 1989 *
 * RUN DATE 1/10/94 TIME 12:25:27 *

 * U.S. ARMY CORPS OF EN
 * THE HYDROLOGIC ENGI
 * 609 SECOND STREET, SUITE D
 * DAVIS, CALIFORNIA 9561
 * (916) 756-1104

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X  X XXXXXXXX XXXXX      XXXXX
X  X X      X  X      X  X
X  X X      X      X
XXXXXXXX XXXX  X      XXXXX XXXXX
X  X X      X      X
X  X X      X  X      X
X  X XXXXXXXX XXXXX      XXXXXXXX
  
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END OF BANNER

1

1/10/94 12:25:27

PAGE 1

THIS RUN EXECUTED 1/10/94 12:25:27

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
 MODIFICATION -

T1
 T2
 T3

DRYW

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
 0 2 0 0 0 0 0 0 4425.09 0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 -1 0 -1

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38 27 43 1 28 13 14 3

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10 -10

NC .2 .03 .033 .1 .3

QT	9	3850	3050	3050	3050	3050	3050	3050	3050	3050
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
X1	217.7	16	1564.8	1670.4	0	0	0	0	1564.8	1670.4
GR	4427.5	0.0	4428.5	280.0	4428.5	450	4426.5	710	4425.7	930
GR	4425.8	1200.0	4425.2	1212.4	4424.8	1221.4	4423.9	1383.4	4423.7	1481.8
GR	4426.0	1564.8	4416.3	1593.5	4415.1	1606.2	4414.7	1628.1	4416.6	1643.9
GR	4425.3	1670.4								

NC	.035	.035	.03							
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	623.1	723.3
X1	225.7	12	623.1	723.3	800	800	800			
GR	4428.0	0.0	4427.6	139.6	4427.8	239.6	4428.9	250.5	4428.7	271.4
GR	4428.5	357.0	4428.2	472.5	4427.9	623.1	4418.8	658.0	4419.1	685.2
GR	4420.9	693.5	4427.7	723.3						

ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	822.8	922.1
X1	234.1	48	822.8	922.1	840	840	840			
GR	4432.6	0.0	4433.7	21.2	4432.6	32.2	4433.8	44.7	4434.1	60.3
GR	4433.5	88.7	4432.6	116.0	4432.1	259.3	4432.3	356.9	4432.1	429.2
GR	4433.2	447.5	4433.2	465.6	4432.1	472.6	4432.3	551.9	4432.5	696.3
GR	4431.9	822.8	4423.7	844.3	4422.7	878.5	4425.3	893.1	4433.4	922.1
GR	4433.3	949.7	4432.3	959.2	4438.3	975.5	4437.9	1011.6	4431.4	1022.9
GR	4431.7	1131.3	4431.2	1240.8	4432.9	1259.7	4427.3	1271.1	4431.2	1286.0
GR	4430.5	1289.2	4431.7	1405.6	4432.0	1566.9	4432.5	1692.8	4428.5	1700.3
GR	4433.9	1707.7	4433.6	1727.7	4432.2	1740.8	4426.5	1747.8	4432.8	1756.6

1
1/10/94 12:25:27

GR	4432.1	1761.9	4431.9	1950.9	4431.6	2090.1	4427.9	2103.3	4429.7	2111.8
GR	4434.3	2129.2	4434.0	2142.7	4434.6	2174.0				

NC	.045	.040	.035	.1	.3					
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	553	655.8
X1	240.8	53	553	655.8	670	670	670			
GR	4436.7	0.0	4434.0	13.6	4435.5	22.8	4435.6	75.3	4435.4	165.1
GR	4437.4	173.4	4437.3	200.1	4436.1	210.9	4435.3	354.3	4435.7	439.8
GR	4436.2	553.0	4427.6	578.1	4426.7	592.0	4426.5	614.8	4428.6	629.4
GR	4436.8	655.8	4435.9	675.2	4436.8	705.3	4436.8	811.0	4436.4	908.8
GR	4436.0	994.7	4435.3	1043.1	4436.8	1056.1	4436.8	1079.7	4436.5	1085.5
GR	4436.9	1175.4	4437.4	1291.9	4436.0	1371.9	4433.4	1378.2	4436.5	1385.2
GR	4437.3	1411.8	4437.0	1422.2	4437.6	1433.5	4437.3	1445.5	4436.8	1461.3
GR	4437.3	1481.4	4433.6	1490.1	4436.1	1496.3	4435.9	1598.0	4435.4	1684.4
GR	4437.1	1691.0	4432.7	1703.9	4437.6	1718.9	4436.2	1729.1	4436.0	1773.0
GR	4431.7	1784.9	4431.0	1832.9	4430.2	1887.2	4435.2	1894.4	4435.1	1915.0
GR	4435.8	1921.4	4436.1	1938.6	4436.6	1974.4				

++++
+ NEW CROSS SECTION DATA WAS ENTERED BELOW +
+ NUMBERS 265.6, 273.8, AND 280.0 WERE DELETED +
++++

++++
+ MODIFIED THE FLOWS TO REPRESENT THE +
+ RESULTS OF THE SPLIT FLOW ANALYSIS (5-11-93) +
+ => WEIR COEFFICIENT 3.1 +
+ => TRUNCATED CROSS SECTIONS +
++++

***** MODIFIED SECTION 253.2*****

NC	.050	.045	.035	.1	.3					
QT	9	2575	2450	2450	2450	2450	2450	2450	2450	2450
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	817.4	917.8
X1	253.2	43	817.4	917.8	450	1240	1240	1240	817.4	917.8
GR	4441.0	0.0	4444.0	420.0	4444.0	610.0	4447.0	690.0	4444.0	720.0
GR	4448.0	721.5	4442.4	779.2	4443.1	817.4	4434.6	845.7	4435.0	852.4
GR	4433.6	858.7	4433.3	883.0	4435.1	897.2	4442.2	917.8	4441.6	1029.1
GR	4441.6	1162.0	4441.3	1240.0	4440.8	1300.0	4440.4	1373.0	4440.8	1465.0
GR	4441.6	1483.4	4441.3	1505.2	4442.0	1512.1	4442.3	1638.8	4443.3	1716.5
GR	4442.8	1803.0	4442.5	1865.6	4443.8	1882.8	4443.0	1893.2	4441.2	1919.7
GR	4442.1	1925.8	4437.8	1936.8	4440.5	1954.8	4439.4	2068.8	4439.2	2174.1
GR	4436.0	2191.4	4439.0	2209.8	4439.0	2295.9	4439.6	2372.9	4437.1	2378.8
GR	4441.9	2382.8	4442.1	2399.0	4442.6	2430.0				

QT	9	2075	2000	2000	2000	2500	2500	2600	2500	2500
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	1186.1	1298.6

*****CROSS SECTION 258.2*****

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X1	258.2	82	1186.1	1298.6	1000	1750	500			
GR	4450.0	906.6	4449.8	908.6	4449.0	912.6	4448.9	913.3	4448.0	918.2
GR	4447.5	919.7	4446.7	922.5	4446.5	924.1	4446.4	924.9	4446.0	927.9
GR	4445.1	933.7	4445.0	934.6	4444.4	946.5	4444.0	952.2	4444.1	978.4
GR	4444.4	1009.2	4444.6	1020.1	4444.8	1024.2	4445.0	1030.7	4445.0	1038.0
GR	4444.6	1042.9	4444.1	1049.7	4444.0	1050.9	4444.0	1059.7	4444.1	1062.2
GR	4444.6	1089.2	4444.6	1135.5	4444.8	1157.6	4445.0	1164.1	4445.0	1164.1
GR	4445.0	1165.1	4445.1	1169.5	4445.2	1173.7	4445.2	1186.1	4445.1	1193.3
GR	4445.0	1197.5	4443.0	1206.0	4442.7	1206.5	4442.6	1206.6	4442.3	1207.1
GR	4442.0	1207.7	4441.9	1207.9	4441.0	1209.9	4440.0	1214.5	4439.7	1215.3
GR	4439.0	1217.3	4439.0	1217.4	4438.0	1220.3	4437.1	1223.6	4437.0	1224.1
GR	4436.5	1230.1	4436.0	1235.1	4436.0	1256.7	4436.4	1262.2	4437.0	1271.4
GR	4437.7	1275.8	4438.9	1280.0	4439.0	1280.2	4440.0	1282.8	4440.4	1283.8
GR	4441.0	1285.4	4441.9	1287.4	4442.5	1288.8	4443.0	1289.9	4444.0	1291.5
GR	4444.2	1296.7	4444.2	1298.6	4444.1	1300.1	4444.0	1304.5	4444.0	1304.6
GR	4443.9	1304.7	4443.8	1305.2	4443.6	1305.5	4443.6	1305.6	4443.4	1306.6
GR	4443.3	1307.3	4442.5	1470	4443	2200	4443.5	2260	4442	2300
GR	4444	2550	4445	2700						

*****CROSS SECTION 262.4*****

QT	9	2000	420	440	450	460	480	500	440	460
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	1831.7	2400
X1	262.4	76	1831.7	1930.2	300	430	420			
GR	4446.0	1148.7	4446.0	1148.8	4446.4	1162.2	4446.4	1163.7	4446.6	1195.1
GR	4446.6	1195.9	4446.1	1198.5	4446.0	1434.6	4446.1	1439.2	4446.4	1461.8
GR	4446.5	1474.5	4446.5	1519.7	4446.5	1528.7	4446.5	1528.9	4446.5	1529.1
GR	4446.5	1530.4	4446.5	1534.7	4446.6	1578.3	4446.4	1621.1	4446.4	1631.5
GR	4446.4	1638.3	4446.3	1653.6	4446.2	1697.3	4446.4	1708.1	4446.4	1710.2
GR	4446.2	1742.5	4446.2	1752.1	4446.2	1752.6	4446.2	1755.6	4446.2	1757.3
GR	4446.2	1758.7	4446.2	1765.3	4446.1	1797.3	4446.1	1815.4	4446.0	1823.8
GR	4446.0	1831.7	4445.6	1834.5	4445.0	1838.5	4444.2	1841.5	4444.0	1842.1
GR	4443.7	1842.8	4443.0	1844.6	4442.5	1846.4	4442.0	1848.3	4441.3	1851.1
GR	4441.0	1852.4	4440.1	1858.0	4439.8	1859.8	4439.0	1864.8	4438.8	1867.1
GR	4438.0	1876.9	4438.0	1894.4	4438.4	1900.7	4439.0	1910.7	4439.3	1912.2
GR	4440.0	1917.5	4440.9	1920.5	4441.0	1920.6	4441.9	1923.6	4442.0	1923.7

QT	9	1825	2000	2000	2000	2000	2000	2000	2000	2000
X1	271.3	63	2515.9	2538.3	210	200	210			
GR	4451.0	1238.9	4451.0	1251.0	4446.0	1263.3	4446.0	1266.9	4449.0	1286.7
GR	4449.5	1462.0	4449.6	1464.0	4449.5	1471.8	4449.3	1507.5	4449.0	1645.1
GR	4448.0	1647.2	4448.6	1654.3	4449.0	1655.2	4449.8	1692.5	4450.0	1705.8
GR	4450.2	1736.5	4450.6	1791.6	4450.9	1823.1	4451.0	1829.4	4450.5	1860.6
GR	4450.4	1868.6	4450.2	1907.8	4450.0	1944.1	4449.9	1955.0	4449.8	1988.2
GR	4449.6	2187.9	4449.8	2238.0	4450.0	2294.6	4450.0	2416.5	4449.9	2417.5
GR	4449.0	2453.1	4448.2	2511.8	4448.0	2515.9	4447.0	2524.5	4447.0	2536.5
GR	4448.0	2538.3	4448.1	2538.6	4449.0	2540.4	4449.0	2680.7	4449.1	2697.8

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GR	4449.1	2720.1	4449.0	2723.2	4449.1	2732.4	4448.9	2843.4	4448.8	2987.9
GR	4448.2	3246.0	4447.5	3250.0	4448.0	3254.0	4449.0	3265.0	4448.8	3270.0
GR	4449.0	3281.0	4448.8	3300.0	4449.0	3315.0	4449.4	3333.0	4449.0	3348.0
GR	4448.6	3450.0	4448.9	3520.0	4449.0	3675.0	4451.9	4020.0	4451.0	4100.0
GR	4452.0	4150.0	4456.0	4300.0	4456.2	4310.0				

*****CROSS SECTION 273.9*****

ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	2313.8	3005.9
QT	9	2100	2000	2000	2000	2000	2000	2000	2000	2000
X1	273.9	53	2929.0	2985.0	210	220	260			
GR	4451.3	1198.5	4451.0	1203.4	4451.0	1216.3	4447.0	1228.1	4447.0	1240.5
GR	4449.0	1249.6	4450.0	1303.5	4450.4	1370.5	4450.2	1395.8	4450.3	1425.7
GR	4450.4	1442.8	4451.0	1592.7	4450.0	1598.5	4450.0	1605.7	4451.0	1608.5
GR	4451.0	1621.6	4450.7	1625.9	4450.7	1632.2	4450.2	1650.0	4450.2	1672.7
GR	4450.5	1695.4	4450.7	1725.4	4450.9	1778.6	4450.9	1823.1	4451.0	1841.1
GR	4450.8	1958.4	4450.0	1964.5	4450.0	1968.6	4450.2	1981.7	4450.6	1986.4
GR	4450.7	2009.8	4451.4	2093.4	4451.8	2128.4	4452.3	2313.8	4451.0	2785.3
GR	4450.9	2792.7	4450.8	2805.8	4450.0	2929.0	4448.0	2962.3	4447.0	2963.6
GR	4447.0	2972.8	4451.0	2985.0	4451.4	3005.9	4451.2	3016.4	4451.1	3025.2
GR	4451.0	3027.7	4450.3	3174.6	4450.3	3631.0	4450.9	3690.5	4450.5	3714.6
GR	4450.0	3800.8	4452.0	4235.0	4453.0	4450.0				

*****CROSS SECTION 278.1*****

ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	2739.3	3238.9
QT	9	2100	2000	2000	2000	2000	2000	2000	2000	3000
NH	4	0.08	1803.2	.05	2914.3	.035	3116.5	.045	3683.6	
X1	278.1	62	2914.3	3116.5	300	310	420			
GR	4452.5	1178.8	4450.0	1213.0	4450.5	1231.4	4450.6	1268.8	4450.8	1297.0
GR	4452.0	1360.7	4450.5	1370.3	4451.0	1519.2	4451.1	1530.0	4452.9	1764.6
GR	4452.0	1803.2	4452.1	2013.5	4452.3	2071.9	4452.0	2119.0	4453.0	2294.8
GR	4453.0	2349.6	4454.0	2485.5	4454.0	2570.3	4456.0	2579.3	4454.0	2598.0
GR	4454.0	2721.2	4456.3	2739.3	4453.0	2771.5	4452.9	2793.3	4452.8	2855.8
GR	4452.8	2861.0	4453.0	2914.3	4452.1	2917.3	4451.0	2993.8	4449.0	2995.9
GR	4449.0	2999.2	4449.0	3007.2	4452.7	3085.8	4452.8	3093.3	4452.7	3095.3
GR	4452.8	3099.7	4452.9	3105.7	4453.0	3116.5	4456.1	3238.9	4455.3	3298.0
GR	4455.5	3390.0	4454.0	3536.9	4454.0	3539.3	4454.4	3541.4	4454.5	3542.1
GR	4454.6	3542.5	4455.0	3544.2	4455.0	3553.2	4455.0	3553.7	4454.4	3557.2
GR	4454.2	3558.1	4454.0	3559.3	4453.8	3560.6	4453.6	3561.6	4453.0	3565.1
GR	4453.0	3593.5	4455.4	3605.8	4455.2	3607.6	4455.1	3608.5	4455.0	3609.9
GR	4454.5	3613.1	4454.1	3683.6						

*****CROSS SECTION 282.5*****

ET	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	2920.9	3748.6
X1	282.5	42	3085.4	3209.2	430	520	440			
GR	4455.5	538.7	4456.0	588.7	4457.0	845.0	4456.0	936.0	4455.0	1000.0
GR	4455.4	1100.0	4455.0	1180.0	4454.8	1190.0	4455.0	1200.0	4455.0	1670.0
GR	4454.6	1685.0	4455.0	1705.0	4456.0	1850.0	4456.0	1900.0	4456.0	1945.8
GR	4455.0	1947.1	4455.0	1983.8	4455.2	1989.8	4455.2	2006.0	4455.0	2014.3
GR	4455.8	2023.0	4455.8	2187.3	4455.9	2198.4	4456.0	2200.0	4455.7	2554.1
GR	4456.7	2920.9	4456.6	3009.3	4456.2	3053.1	4455.8	3085.4	4454.7	3127.9

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GR	4453.3	3149.5	4452.0	3161.6	4452.0	3183.7	4456.0	3209.2	4457.5	3384.2
GR	4458.0	3402.5	4458.0	3425.0	4457.0	3431.5	4456.9	3451.6	4456.8	3459.3
GR	4457.7	3575.2	4458.3	3748.6						

+++++
 + END OF NEW CROSS SECTION DATA +
 +++++

NC	.050	.050	.042	.3	.5					
ET	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	2450	3600
X1	286.0	16	2725	2790	620	660	710			
GR	4464	1000	4460	1150	4460	1400	4459	1600	4460	1850
GR	4459.5	2000	4460	2100	4461	2450	4460	2550	4460	2725
GR	4453	2735	4453	2755	4460	2790	4460	3200	4462	3400
GR	4464	3600								

NC	.045	.045	.045	.4	.8					
ET	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	2050	2750
X1	288.5	23	2414	2450	220	180	250			
GR	4468	1000	4464	1030	4462	1150	4461.8	1260	4462	1400
GR	4462.7	1500	4462.7	1660	4462.0	1700	4462.0	1900	4462.7	1940
GR	4462.7	2000	4461.7	2020	4462.0	2022	4463.6	2030	4463.6	2050
GR	4461.8	2150	4462.0	2400	4453.6	2414	4453.6	2450	4462.0	2465
GR	4462	2520	4462.5	2600	4464	2750				

Virginia St. - Box to an arch

NC	.050	.045	.025							
ET	9.11	9.11	9.11	9.11	9.11	9.11	9.11	9.11	920	1240
SB	1.1	2.04	2.8	0	36	9.3	190	0	4455.0	4453.6
X1	291.6	10	940	976	420	290	310			
X2			1	4462	4465.2		2			
BT	-7	610	4464.2		700	4464.5		828	4464.9	
BT		940	4465.3		976	4465.6		1140	4466.3	
BT		1240	4466.4							
GR	4468.0	100	4464	310	4464.8	820	4464.5	920	4455	940.
GR	4455	976	4462	997	4464.3	1035	4465	1155	4466.4	1240

NC	.04	.04	.035	.1	.3					
QT	9	3900	4000	4000	4000	4000	4000	4000	4000	4000
ET	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	1000	1351.6
X1	296.4	14	1260	1305	510	400	480			
GR	4473.5	1000	4468.6	1055	4465.5	1200	4464	1260	4462.5	1262
GR	4462.8	1280	4464.9	1305	4464.6	1330	4463.4	1335	4466.2	1350
GR	4472	1351	4472	1351.5	4465.2	1351.6	4468	1620		

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NC	.04	.045	.035								
QT	9	3900	3900	3900	3900	3900	3900	3900	3900	3900	3900
ET		9.1	9.1	9.1	9.1	9.1	9.1	9.1	1	320	
X1	300.4	14	71.9	173.2	380	400	400				
GR	4479.8	0.0	4473.6	23.1	4472.9	71.9	4473.2	92.8	4463.6	116.9	
GR	4464.0	159.7	4470.9	173.2	4470.8	211.1	4472.8	254.6	4472.8	326.5	
GR	4470.2	341.9	4476.0	376.0	4475.0	550.0	4476.0	700.0			

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THIS RUN EXECUTED 1/10/94 12:25:28

 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
 MODIFICATION -

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

SUMMARY PRINTOUT

SECNO	STENCL	Q	CWSEL	STENCR	QLOB	QCH	EG
217.700	1564.80	3850.00	4425.09	1670.40	.00	3850.00	4425.54
* 225.700	623.10	3850.00	4426.03	723.30	.00	3850.00	4427.47
234.100	822.80	3850.00	4429.99	922.10	.00	3850.00	4431.35
240.800	553.00	3850.00	4433.38	655.80	.00	3850.00	4434.74
253.200	817.40	2575.00	4439.85	917.80	.00	2575.00	4440.55
258.200	1186.10	2075.00	4441.61	1298.60	.00	2075.00	4442.22
262.400	1831.70	2000.00	4443.11	2400.00	.00	2000.00	4443.77
* 267.100	1257.20	650.00	4447.72	1891.60	375.12	269.71	4447.91
* 269.200	1634.80	1650.00	4448.78	2832.00	240.08	542.06	4448.92
271.300	2416.50	1825.00	4449.68	3333.00	149.61	262.75	4449.79

* 273.900 2313.80 2100.00 4451.81 3005.90 743.36 1331.80 4452.40
 * 278.100 2739.30 2100.00 4453.77 3238.90 177.98 1911.74 4453.98
 * 282.500 2920.90 2100.00 4456.04 3748.60 3.50 2096.49 4457.05
 * 286.000 2450.00 2100.00 4460.64 3600.00 132.95 1674.10 4460.94
 288.500 2050.00 2100.00 4461.16 2750.00 173.06 1739.36 4461.72
 * 291.600 920.00 2100.00 4464.75 1240.00 140.51 1660.55 4465.03
 * 296.400 1000.00 3900.00 4467.27 1351.60 1271.48 1826.68 4468.36

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SECNO	STENCL	Q	CWSEL	STENCR	QLOB	QCH	EG
300.400	1.00	3900.00	4470.19	320.00	.00	3900.00	4471.96

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SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 225.700 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 CAUTION SECNO= 267.100 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 267.100 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 267.100 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 WARNING SECNO= 269.200 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 CAUTION SECNO= 273.900 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 273.900 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 273.900 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 WARNING SECNO= 278.100 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 CAUTION SECNO= 282.500 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 282.500 PROFILE= 1 MINIMUM SPECIFIC ENERGY
 WARNING SECNO= 286.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 CAUTION SECNO= 291.600 PROFILE= 1 HYDRAULIC JUMP D.S.
 WARNING SECNO= 291.600 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 CAUTION SECNO= 296.400 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 296.400 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 296.400 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL