

Mark Hill

HUITT-ZOLIARS

WINNWOOD ROAD AT CELESTIAL ROAD
FLOOD STUDY
ALTERNATIVE A



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1985 CELESTIAL ROAD / WINNWOOD
ROAD - FLOOD STUDY - US

WINNWOOD ROAD AT CELESTIAL ROAD

FLOOD STUDY

ALTERNATIVE A

PREPARED FOR:

CHARLES ALLEN
14516 WINNWOOD ROAD
DALLAS, TEXAS 75240

PREPARED BY:

HUITT-ZOLLARS, INC.
3131 MCKINNEY AVENUE
SUITE 600
DALLAS, TEXAS 75204

HUITT-ZOLLARS

Huitt-Zollars, Inc. / Consulting Engineers / 3131 McKinney Avenue / Suite 600 / LB 105 / Dallas, Texas 75204 / 214-871-3311

October 18, 1985

Mr. Michael Askew, P.E.
Program Manager
Storm Water Management Department
City of Dallas
1500 West Mockingbird Lane
Dallas, Texas 75235

RE: Winnwood Road at Celestial Road Flood Study
Huitt-Zollars, Job No. 0582-02

Dear Mr. Askew:

The following report is a copy of the hydraulic analysis performed on White Rock Creek within the vicinity of the above referenced property. This submittal includes a written narrative, copy of the PC-WSP Computer Calculations, and drawings of the site and cross sections of the study area.

Based on this analysis, the tract proposed to be reclaimed from the existing floodplain will have little effect on the 100 year water surface profile.

After you review this information, we would be pleased to meet with you should further discussion be requested.

Sincerely,

HUITT-ZOLLARS, INC.
Consulting Engineers

Arthur K. Umble
Project Manager

AKU/ber

HUITT-ZOLLARS

Huitt-Zollars, Inc. / Consulting Engineers / 3131 McKinney Avenue / Suite 600 / LB 105 / Dallas, Texas 75204 / 214-871-3311

October 18, 1985

Mr. Ron Whitehead, Town Manager
Town of Addison
P.O. Box 144
Addison, Texas 75001

RE: Winnwood Road at Celestial Road Flood Study
Huitt-Zollars, Job No. 0582-02

Dear Mr. Whitehead:

The following report is a copy of the hydraulic analysis performed on White Rock Creek within the vicinity of the above referenced property. The information contained within this report will assist the City of Dallas Stormwater Management Department in their evaluation for a fill permit.

Please contact the writer if further information is required.

Sincerely,

HUITT-ZOLLARS, INC.
Consulting Engineers

Arthur K. Umble
Project Manager

AKU/CML:ber

WINNWOOD ROAD AT CELESTIAL ROAD

FLOOD STUDY

PREPARED FOR:

CHARLES ALLEN
14516 WINNWOOD ROAD
DALLAS, TEXAS 75240

PREPARED BY:

HUITT-ZOLLARS, INC.
3131 MCKINNEY AVENUE
SUITE 600
DALLAS, TEXAS 75204



Tedde R. Blunck
10-22-85

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WINNWOOD ROAD AT CELESTIAL ROAD
FLOOD STUDY

INTRODUCTION

As shown on Exhibit A, the project site is located approximately 400 feet North of the intersection of Winnwood Road and Celestial Road in the Town of Addison, Texas. The site consists of approximately 1.37 acres of land bordered on the East by White Rock Creek. The majority of the site lies within the 100-year flood plain, as shown on Exhibit B.

This study was undertaken to determine the amount of land which can be reclaimed from the flood plain through the use of a landscaped retaining wall system.

METHODOLOGY

PC-WSP, an adaptation of the WSP4 program developed by Albert H. Halff and Associates, Inc. for the City of Dallas floodplain management studies, was used to perform the hydraulic analysis.

Existing cross-sections and the flow rate for White Rock Creek within the vicinity of the project site were obtained from the City of Dallas Department of Stormwater Management. Additional cross-section information was obtained from the field and incorporated into the existing computer model to provide a true and accurate model of the site. The results of this analysis are included in Appendix 1.

The computer model data and the results of the analysis for the proposed retaining wall are included in Appendix 2. The proposed retaining wall has been designed to comply with the "10 point" criteria specified by the City of Dallas Department of Stormwater Management. However, it should be noted that, due to the properties of the retaining wall and clearing, an increase in conveyance resulted. Therefore, there was no need to create an equal reduction of conveyance model for this site.

RESULTS

Table 1 lists the 100-Year Water Surface Elevation for the Existing Conditions Analysis and the Proposed Conditions Analysis. Based on a comparison of the two conditions, the reclamation of the land will have no adverse effect on the water surface elevation. The wall is to be located as shown on Exhibit E. To conform with the computer model for the proposed conditions, the floodway management area are to be planted with grass and well-maintained. The boundary description of the land to be reclaimed is included in Appendix 4. A typical section of the retaining wall is shown on Exhibit F.

TABLE 1

100-YEAR WATER SURFACE ELEVATION

CROSS-SECTION NUMBER	HUITT-ZOLLARS ANALYSIS OF EXISTING CONDITION	HUITT-ZOLLARS ANALYSIS OF PROPOSED CONDITION
136	553.70	553.70
137	554.36	554.36
137A	554.71	554.71
137B	554.72	554.71
138	554.74	554.73
138A	554.82	554.78
138B	554.93	554.88
138C	554.93	554.88
138D	554.93	554.93
140	555.21	555.21
140A	555.58	555.56

APPENDICES

EXISTING CONDITIONS ANALYSIS

APPENDIX I

TITLE	WHIT:	ROCK	DEPTH	AT	WINDWOOD	AND	CELESTIAL	RD.	-	EXIST.
CSA-ELEV	36700.	553.70								
FINAL	142.									
XSECTION	135.	150.	185.							1.
GENERAL	544.									1.
SEGMENT	1.	D	0.12	190.	545.					
SEGMENT	2.	C	0.05	195.	544.					
SEGMENT	3.	D	0.09	545.	550.					
DATA	0.	550.	140.	550.	190.	545.				
DATA	190.	545.	203.	540.	207.	535.				
DATA	221.	524.5	261.	524.5	250.	530.				
DATA	267.	540.	295.	544.	295.	544.				
DATA	375.	544.	365.	542.	400.	542.				
DATA	412.	543.	500.	545.	600.	550.				
DATA	845.	550.	845.	550.						
ENDTABLE										
TABLE	37100.									-1.
XSECTION	137.	330.	336.							1.
GENERAL	541.									1.
SEGMENT	1.	D	0.12	195.	544.					
SEGMENT	2.	C	0.05	305.	541.					
SEGMENT	3.	D	0.09	510.	543.					
SEGMENT	4.	D	0.04	900.	550.					
DATA	0.	550.	9.	555.	23.	535.				
DATA	25.	531.	37.	531.	60.	540.				
DATA	80.	544.	103.	545.	127.	545.				
DATA	195.	544.	218.	540.	228.	525.5				
DATA	250.	525.5								
DATA	270.	535.	285.	540.	305.	541.				
DATA	305.	541.	335.	541.	365.	545.				
DATA	420.	545.0	440.	545.0	455.	545.				
DATA	610.	543.	610.	543.	710.	545.				
DATA	817.	550.	900.	550.	900.	550.				
ENDTABLE										
XSECTION	137A	5.	5.							1.
GENERAL	545.									1.
SEGMENT	1.	D	0.05	220.	544.					
SEGMENT	2.	C	0.045	347.	545.					
SEGMENT	3.	D	0.09	675.	543.					
SEGMENT	4.	D	0.04	1050.	550.					
DATA	0.	550.	25.	550.	70.	555.				
DATA	200.	547.	220.	544.	220.	544.				
DATA	230.	541.	240.	541.	244.	540.				
DATA	250.	525.5	295.	525.5	310.	530.				
DATA	320.	540.	335.	544.	347.	545.				
DATA	347.	545.	455.	545.0	505.	545.0				
DATA	530.	545.	675.	543.	675.	543.				
DATA	775.	545.	885.	550.	1050.	550.				
ENDTABLE										
XSECTION	137B	20.	20.							1.
GENERAL	545.									1.
SEGMENT	1.	D	0.05	220.	544.					
SEGMENT	2.	C	0.045	347.	545.					
SEGMENT	3.	D	0.09	675.	543.					
SEGMENT	4.	D	0.04	1050.	550.					
DATA	0.	550.	25.	550.	70.	555.				
DATA	200.	547.	220.	544.	220.	544.				
DATA	230.	541.	240.	541.	244.	540.				
DATA	250.	525.5	295.	525.5	310.	530.				
DATA	320.	540.	335.	544.	347.	545.				
DATA	347.	545.	455.	545.0	505.	545.0				
DATA	530.	545.	675.	543.	675.	543.				
DATA	775.	545.	885.	550.	1050.	550.				
ENDTABLE										

FILE WSP0580.EX5

EXISTING INCLUDING

NEW X-SECTIONS

REQUESTED BY CITY

10-10-85

-1.

SECTION	100.	20.	110.	1.	1.	
GENERAL	545.			1.	1.	
SEGMENT	1.	0	0.05	228.	544.	
SEGMENT	2.	0	0.045	347.	545.	
SEGMENT	3.	0	0.09	675.	543.	
SEGMENT	4.	0	0.04	1050.	550.	
DATA	0.	550.	25.	555.	70.	555.
DATA	200.	547.	228.	544.	228.	544.
DATA	230.	541.	240.	541.	244.	540.
DATA	265.	526.5	295.	526.5	310.	530.
DATA	320.	540.	335.	544.	347.	545.
DATA	347.	545.	465.	545.8	505.	545.8
DATA	530.	545.	675.	543.	675.	543.
DATA	775.	545.	885.	550.	1050.	550.

EMTABLE F						
SECTION	1384.	95.	90.		1.	
GENERAL	543.8			1.	1.	
SEGMENT	1.	0	0.05	237.	544.8	
SEGMENT	2.	0	0.045	330.	543.8	
SEGMENT	3.	0	0.09	450.	545.8	
SEGMENT	4.	0	0.04	891.1	555.00	
DATA	0.	557.5	100.	550.8	200.	544.5
DATA	237.	544.8	257.	526.4	274.	525.8
DATA	292.	526.5	330.	543.8	348.	544.1
DATA	397.	547.5	450.	545.8	491.	545.7
DATA	600.	545.1	700.	544.5	800.	545.7
DATA	891.	553.5	891.1	555.00		

EMTABLE F						
SECTION	1380.	5.	5.		1.	
GENERAL	540.			1.	1.	
SEGMENT	1.	0	0.05	229.	541.2	
SEGMENT	2.	0	0.045	255.	543.2	
SEGMENT	3.	0	0.05	309.	535.	
SEGMENT	4.	0	0.045	395.	545.	
SEGMENT	5.	0	0.09	453.	545.	
SEGMENT	6.	0	0.04	890.	555.	
DATA	0.	555.	100.	550.3	200.	544.1
DATA	229.	541.2	247.	534.7	265.	543.2
DATA	260.	540.7	295.	541.	299.	540.
DATA	298.	539.	302.	538.	305.	537.
DATA	309.	535.	312.	530.	315.	529.
DATA	362.	528.	363.	529.	365.	530.
DATA	371.	535.	374.	540.	378.	541.
DATA	390.	542.	385.	543.	391.	544.
DATA	395.	545.	400.	545.	453.	545.
DATA	549.	545.	615.	544.	640.	543.
DATA	653.	544.	650.	545.	708.	545.
DATA	750.	547.	753.	548.	808.	549.
DATA	830.	549.	855.	550.	861.	551.
DATA	865.	552.	870.	553.	875.	554.
DATA	884.	555.	890.	555.		

FACTABLE						
SECTION	1380.	5.	5.		1.	
GENERAL	540.			1.	1.	
SEGMENT	1.	0	0.05	229.	541.2	
SEGMENT	2.	0	0.045	255.	543.2	
SEGMENT	3.	0	0.05	309.	535.	
SEGMENT	4.	0	0.045	395.	545.	
SEGMENT	5.	0	0.09	453.	545.	
SEGMENT	6.	0	0.04	890.	555.	
DATA	0.	555.	100.	550.3	200.	544.1
DATA	229.	541.2	247.	534.7	265.	543.2
DATA	260.	540.7	295.	541.	299.	540.
DATA	298.	539.	302.	538.	305.	537.
DATA	309.	535.	312.	530.	315.	529.
DATA	362.	528.	363.	529.	365.	530.

DATA	571.	535.	374.	540.	378.	541.
DATA	590.	542.	385.	543.	391.	544.
DATA	395.	545.	400.	546.	463.	545.
DATA	549.	545.	615.	544.	640.	543.
DATA	653.	544.	660.	545.	708.	545.
DATA	750.	547.	753.	548.	800.	549.
DATA	830.	549.	855.	550.	861.	551.
DATA	865.	552.	870.	553.	875.	554.
DATA	884.	555.	890.	555.		

ENDTABLE

SECTION	1360.	437.	366.			1.
GENERAL	540.			1.	1.	
SEGMENT	1.	D	0.05	229.	541.2	
SEGMENT	2.	C	0.045	265.	543.2	
SEGMENT	3.	D	0.05	309.	535.	
SEGMENT	4.	C	0.045	395.	545.	
SEGMENT	5.	D	0.09	463.	545.	
SEGMENT	6.	D	0.04	590.	555.	
DATA	0.	555.	100.	550.3	200.	544.1
DATA	229.	541.2	247.	534.7	265.	543.2
DATA	290.	540.7	285.	541.	289.	540.
DATA	298.	539.	302.	538.	305.	537.
DATA	309.	535.	312.	530.	315.	529.
DATA	362.	528.	363.	529.	365.	530.
DATA	371.	535.	374.	540.	378.	541.
DATA	390.	542.	385.	543.	391.	544.
DATA	395.	545.	400.	546.	463.	545.
DATA	549.	545.	615.	544.	640.	543.
DATA	653.	544.	660.	545.	708.	545.
DATA	750.	547.	753.	548.	800.	549.
DATA	830.	549.	855.	550.	861.	551.
DATA	865.	552.	870.	553.	875.	554.
DATA	884.	555.	890.	555.		

ENDTABLE

SECTION	140.	402.	430.			1.	1280+70
GENERAL	543.			1.	1.		
SEGMENT	1.	D	0.065	575.	545.		
SEGMENT	2.	C	0.040	570.	543.		
SEGMENT	3.	D	0.060	920.	555.		
DATA	-120.	565.					
DATA	-120.	560.	0.	555.	130.	540.	
DATA	255.	545.			270.	544.	
DATA	300.	545.	360.	547.	390.	547.	
DATA	430.	547.	575.	545.	578.	540.	
DATA	594.	530.	610.	528.	640.	528.	
DATA	658.	540.	670.	543.	690.	542.	
DATA	720.	550.	740.	554.	790.	558.	
DATA	800.	562.	920.	555.			

ENDTABLE F

SECTION	1400.	170.	167.			1.	
GENERAL	545.			1.	1.		
SEGMENT	1.	D	0.04	357.	547.		
SEGMENT	2.	D	0.055	560.	546.		
SEGMENT	3.	C	0.04	548.	540.		
SEGMENT	4.	D	0.060	752.	557.		
DATA	0.	560.	155.	560.	220.	545.	
DATA			263.	545.	302.	545.	
DATA	357.	547.	442.	547.	560.	546.	
DATA	563.	545.	567.	540.	570.	535.	
DATA	563.	530.	550.	529.	625.	529.	
DATA	630.	530.	641.	535.	648.	540.	
DATA	651.	541.	652.	547.	655.	543.	
DATA	656.	544.	682.	545.	690.	545.	
DATA	710.	550.	729.	555.	735.	555.	
DATA	752.	557.					

ENDTABLE F

SECTION	1400.	55.	102.			1.
GENERAL	545.			1.	1.	
SEGMENT	1.	0.	0.04	309.	547.	
SEGMENT	2.	0.	0.065	600.	540.	
SEGMENT	3.	0.	0.045	605.	540.	
SEGMENT	4.	0.	0.08	809.	561.	
DATA	0.	500.	185.	500.	370.	546.
DATA					391.	545.
DATA	309.	547.	518.	547.	545.	545.
DATA	505.	545.	595.	544.	597.	543.
DATA	600.	547.	605.	541.	600.	540.
DATA	605.	529.	670.	530.	683.	535.
DATA	605.	540.	693.	545.	732.	545.
DATA	742.	547.	750.	548.	758.	549.
DATA	755.	550.	775.	555.	790.	560.
DATA	805.	551.				

EXTABLE						
SECTION	1400.	55.	65.			1.
GENERAL	540.			1.	1.	
SEGMENT	1.	0.	0.04	309.	547.	
SEGMENT	2.	0.	0.065	675.	540.	
SEGMENT	3.	0.	0.045	765.	545.	
SEGMENT	4.	0.	0.08	812.	565.	
DATA	0.0	500.	175.	500.	214.	547.
DATA	309.	547.	445.	540.	535.	548.
DATA	505.	547.	600.	545.	607.	545.
DATA	625.	544.	645.	543.	665.	542.
DATA	672.	541.	675.	540.	682.	535.
DATA	697.	530.	720.	529.	743.	529.
DATA	750.	530.	757.	535.	760.	540.
DATA	765.	545.	767.	545.	778.	547.
DATA	782.	540.	785.	549.	795.	550.
DATA	795.	555.	805.	550.	812.	555.

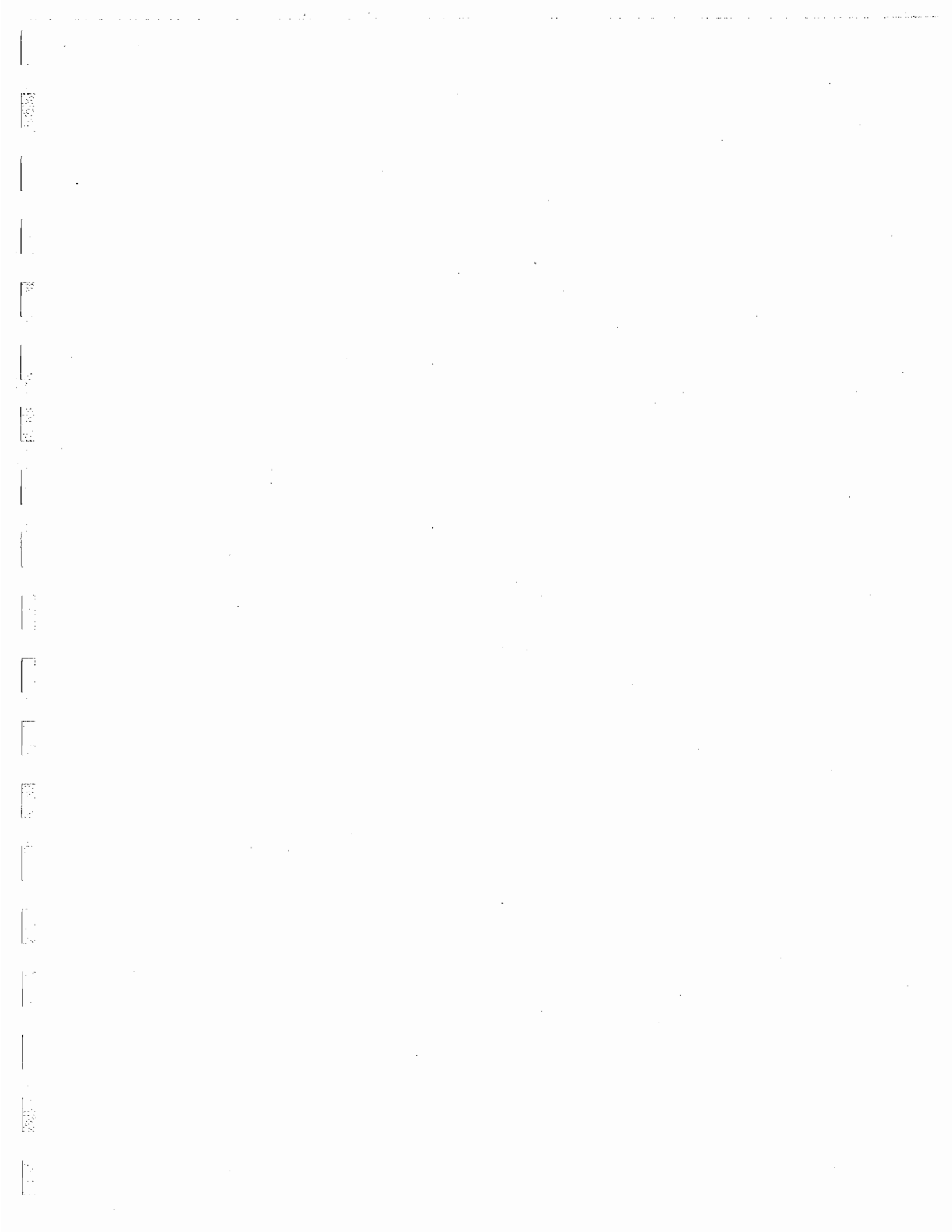
EXTABLE						
SECTION	1400.	80.	172.			1.
GENERAL	535.			1.	1.	
SEGMENT	1.	0.	0.05	682.	535.	
SEGMENT	2.	0.	0.045	760.	540.	
SEGMENT	3.	0.	0.08	810.	565.	
DATA	0.	547.	229.	547.	414.	547.
DATA	445.	540.	535.	540.	565.	547.
DATA	500.	545.	605.	545.	625.	544.
DATA	645.	543.	665.	542.	671.	541.
DATA	675.	540.	682.	535.	695.	530.
DATA	720.	529.	742.	529.	749.	530.
DATA	755.	535.	760.	540.	763.	545.
DATA	765.	545.	775.	547.	780.	540.
DATA	782.	549.	785.	550.	795.	555.
DATA	805.	550.	810.	555.		

EXTABLE						
SECTION	141.	105.	100.			1. 1277+16
GENERAL	545.			1.	1.	
SEGMENT	1.	0.	0.05	730.	545.	
SEGMENT	2.	0.	0.045	850.	555.	
DATA	0.	555.	0.	500.	10.	559.
DATA	300.	550.	325.	547.	450.	548.
DATA	605.	540.	650.	545.	730.	545.
DATA	735.	545.	757.	530.	775.	530.
DATA	780.	529.	800.	529.	805.	530.
DATA	850.	555.				

EXTABLE						
SECTION	142.	1.	1.			1. 1269+69
GENERAL	545.			1.	1.	
SEGMENT	1.	0.	0.05	734.	545.	
SEGMENT	2.	0.	0.04	944.	555.	
DATA	0.	555.	0.	500.	10.	559.

DATA	500.	500.	325.	547.	550.	547.
DATA	500.	549.	570.	549.	550.	547.
DATA	650.	545.	712.	545.	734.	545.
DATA	765.	540.	783.	530.	790.	529.
DATA	834.	529.	852.	535.	860.	550.
DATA	934.	550.	944.	565.		

ENDTABLE



SECTION	DOWNSTREAM		UPSTREAM		DRAINAGE AREA, SQ MI	STATION=					
	CHANNEL	VALLEY	CHANNEL	VALLEY		NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
185	1	1	185	185	1.00	120	050	050			
						KD VALUES			END AREA		
		ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.					
		550.00	648849.3	644471.5	1296921.0	11001.25					
		559.00	611689.6	568353.8	1180043.0	10206.08					
		558.00	575498.9	495043.4	1073542.0	9413.99					
		557.00	539723.7	430221.8	969945.5	8636.09					
		555.00	505425.2	378733.6	876159.8	7907.60					
		555.00	471461.0	319055.3	784517.3	7190.09					
		554.00	439009.7	263347.0	702356.7	6521.99					
		553.00	407047.3	215040.0	623087.3	5969.45					
		552.00	376225.4	174338.8	550564.3	5253.20					
		551.00	346505.6	137711.4	484217.0	4571.11					
		550.00	317419.8	103998.4	421418.2	4108.50					
		549.00	289790.1	75948.5	362738.6	3593.50					
		548.00	262993.8	53251.3	315275.2	3094.50					
		547.00	237830.9	32995.9	270027.9	2623.50					
		546.00	212519.0	18462.8	230921.8	2150.00					
		545.00	189099.6	7895.0	197795.6	1795.19					
		544.00	169199.4	1549.5	170748.9	1434.55					
		543.00	153296.9	525.9	150739.8	1269.22					
		542.00	138285.2	110.1	138395.2	1145.23					
		541.00	124246.1	.0	124246.1	1044.67					
		540.00	111196.8	.0	111196.8	957.91					
		539.00	99155.3	.0	99155.3	875.25					
		538.00	88922.6	.0	88922.6	795.51					
		537.00	74469.8	.0	74469.8	718.37					
		536.00	63758.1	.0	63758.1	643.69					
		535.00	55938.9	.0	55938.9	571.87					
		534.00	45021.4	.0	45021.4	503.02					
		533.00	36962.4	.0	36962.4	437.37					
		532.00	29663.4	.0	29663.4	374.79					
		531.00	23157.5	.0	23157.5	315.40					
		530.00	17444.5	.0	17444.5	259.51					
		529.00	12409.9	.0	12409.9	205.50					
		528.00	8105.4	.0	8105.4	155.03					
		527.00	4610.5	.0	4610.5	108.21					
		526.00	1955.1	.0	1955.1	62.97					
		525.00	319.0	.0	319.0	20.34					
		524.50	.0	.0	.0	.00					

CFS VELOCITY ELEV. CFS VELOCITY ELEV. CFS VELOCITY ELEV.

36700.00 5.81 553.70

SECTION	DISTANCE				DRAINAGE AREA SQ MI	STATION-					
	DOWNSTREAM		UPSTREAM			'W' VALUE BY SEGMENTS					
137.	CHANNEL	VALLEY	CHANNEL	VALLEY	1.00	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
	158.	185.	338.	336.		.120	.060	.090	.040		
	ELEVATION		CHANNEL		VALLEY		TOTAL		END AREA		
									SQ. FT.		
	560.00	563418.6	1395866.0	1395285.0		14617.00					
	559.00	527584.6	1240066.0	1240451.0		13653.02					
	558.00	492054.7	1068997.0	1068052.0		12694.74					
	557.00	456118.0	952962.4	952000.0		11765.78					
	556.00	424540.2	820390.6	8204931.0		10843.32					
	555.00	392598.5	703159.8	7035758.0		9950.05					
	554.00	361186.4	590636.1	591822.5		9065.57					
	553.00	331009.9	489095.8	489105.8		8201.57					
	552.00	302030.9	397948.4	397979.3		7356.61					
	551.00	273741.3	312780.3	312780.3		6522.57					
	550.00	247039.0	241345.9	241345.9		5713.36					
	549.00	221248.5	177893.8	177893.8		4920.88					
	548.00	195370.1	122424.1	122424.1		4145.11					
	547.00	170066.6	81187.5	81187.5		3405.20					
	546.00	150539.5	48878.5	48878.5		2726.49					
	545.00	129705.4	26172.1	26172.1		2125.58					
	544.00	110856.6	21535.0	21535.0		1710.87					
	543.00	95241.1	17098.9	17098.9		1425.88					
	542.00	81520.3	13151.8	13151.8		1209.55					
	541.00	69059.4	10228.1	10228.1		1026.97					
	540.00	58323.7	8359.7	8359.7		905.21					
	539.00	49580.1	6575.9	6575.9		800.66					
	538.00	52898.1	5013.2	5013.2		703.86					
	537.00	45777.7	3670.9	3670.9		613.37					
	536.00	39390.6	2568.4	2568.4		530.18					
	535.00	33494.3	1679.4	1679.4		453.81					
	534.00	27837.9	990.2	990.2		383.45					
	533.00	22495.3	478.8	478.8		317.99					
	532.00	17656.8	146.0	146.0		257.64					
	531.00	13344.6	2.6	2.6		203.39					
	530.00	9555.5	.0	.0		161.72					
	529.00	6288.9	.0	.0		127.72					
	528.00	3605.7	.0	.0		85.49					
	527.00	1550.8	.0	.0		49.99					
	526.00	253.9	.0	.0		16.23					
	525.50	.0	.0	.0		.00					

CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.
37100.00	3.96	554.35						

SECTION 137A	DISTANCE				DRAINAGE AREA SQ MI 1.00	STATION=					
	DOWNSTREAM		UPSTREAM			'M' VALUE BY SEGMENTS					
	CHANNEL 338.	VALLEY 335.	CHANNEL 5.	VALLEY 5.		NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4 .040	NO. 5	NO. 6
	K0 VALUES					END AREA					
	ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.						
	560.00	819843.8	1337897.0	2157740.0	13387.55						
	559.00	766895.2	1165262.0	1932249.0	12353.50						
	558.00	715993.4	1009623.0	1725816.0	11357.80						
	557.00	665470.9	858586.9	1524058.0	10371.98						
	556.00	617316.0	709000.6	1345317.0	9436.68						
	555.00	569926.6	560359.3	1170525.0	8517.64						
	554.00	524323.4	453626.5	1017950.0	7636.55						
	553.00	480448.7	396520.3	877028.9	6782.12						
	552.00	437568.7	306840.8	744409.5	5968.63						
	551.00	396976.8	233013.8	629990.5	5192.31						
	550.00	357697.0	168252.4	525949.4	4443.22						
	549.00	319729.4	112556.7	432286.1	3721.38						
	548.00	284052.0	71353.9	355405.9	3050.78						
	547.00	249359.7	39501.6	289461.3	2426.10						
	546.00	217125.6	16927.7	234053.3	1858.99						
	545.00	185440.3	5397.4	191837.7	1448.08						
	544.00	162057.3	1755.1	169812.3	1210.16						
	543.00	149034.5	25.3	149059.8	1032.87						
	542.00	130137.2	.0	130137.2	928.91						
	541.00	119134.7	.0	119134.7	833.80						
	540.00	106529.2	.0	106529.2	753.63						
	539.00	92903.1	.0	92903.1	678.63						
	538.00	79257.1	.0	79257.1	606.65						
	537.00	66817.8	.0	66817.8	537.60						
	536.00	55417.3	.0	55417.3	471.32						
	535.00	45043.4	.0	45043.4	407.82						
	534.00	35636.6	.0	35636.6	346.96						
	533.00	27252.9	.0	27252.9	288.90						
	532.00	19524.8	.0	19524.8	233.74						
	531.00	13633.9	.0	13633.9	181.37						
	530.00	8395.8	.0	8395.8	131.78						
	529.00	4568.0	.0	4568.0	86.60						
	528.00	1869.2	.0	1869.2	47.41						
	527.00	292.0	.0	292.0	14.29						
	526.50	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.49	554.71						

SECTION 1375 CHANNEL 5 VALLEY 5 CHANNEL 20 VALLEY 20 DRAINAGE AREA SQ MI NO. 1 NO. 2 NO. 3 NO. 4 NO. 5

ELEVATION	CHANNEL	VALLEY	DRAINAGE AREA SQ MI	STATION				
				NO. 1	NO. 2	NO. 3	NO. 4	NO. 5
815043.8	CHANNEL 1	VALLEY 1	21577.40	13387.55				
559.00	706996.2	1165262.0	1932249.0	12353.50				
559.00	715993.4	1009923.0	1729815.0	11357.00				
557.00	655470.9	858896.9	1624482.0	10371.98				
555.00	617316.0	720000.5	1245317.0	9436.60				
555.00	599926.6	603992.3	1173525.0	8517.64				
554.00	524323.4	493926.5	7017950.0	7636.55				
553.00	480440.7	395500.3	877408.9	6732.12				
552.00	437560.7	306240.0	744409.6	5968.63				
551.00	395976.0	232013.0	629920.5	5192.31				
550.00	357697.0	166252.4	529349.4	4443.22				
549.00	319729.4	112556.7	432206.1	3721.39				
548.00	284052.0	71353.9	355445.9	3050.78				
547.00	249859.7	39241.6	282461.3	2426.10				
546.00	217125.6	16927.7	234053.3	1859.99				
545.00	185440.3	5397.4	191837.7	1440.08				
544.00	159057.3	1755.1	169812.3	1210.16				
543.00	149034.5	25.3	149029.8	1002.87				
542.00	136137.2		136137.2	928.91				
541.00	119134.7		119134.7	833.88				
540.00	106529.2		106529.2	753.63				
539.00	92003.1		92003.1	678.63				
538.00	79257.1		79257.1	606.65				
537.00	66817.8		66817.8	537.60				
536.00	55417.3		55417.3	471.32				
535.00	45043.4		45043.4	407.82				
534.00	35636.6		35636.6	346.95				
533.00	27252.9		27252.9	292.99				
532.00	19924.8		19924.8	233.74				
531.00	13633.9		13633.9	181.37				
530.00	8395.8		8395.8	131.78				
529.00	4569.0		4569.0	95.60				
528.00	1869.2		1869.2	47.41				
527.00	292.0		292.0	14.29				
526.50	.0		.0	.00				

CFS VELOCITY 4.49 ELEV. 554.72 CFS VELOCITY CFS VELOCITY ELEV. CFS VELOCITY ELEV.

SECTION 138	DISTANCE				DRAINAGE AREA SQ MI 1.00	STATION-					
	DOWNSTREAM		UPSTREAM			'W' VALUE BY SEGMENTS					
	CHANNEL 20	VALLEY 20	CHANNEL 80	VALLEY 110		NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4 .040	NO. 5	NO. 6
	ELEVATION				END AREA SQ. FT.						
			CHANNEL	VALLEY	TOTAL						
	550.00		819843.8	1337897.0	2157740.0	13387.55					
	559.00		766996.2	1165262.0	1932249.0	12353.50					
	558.00		715993.4	1009623.0	1725816.0	11357.80					
	557.00		665470.9	858586.9	1524058.0	10371.98					
	556.00		617316.0	728000.6	1345317.0	9436.68					
	555.00		569936.6	603598.3	1173525.0	8517.64					
	554.00		524323.4	493626.5	1017950.0	7636.55					
	553.00		480448.7	396588.3	877038.9	6792.12					
	552.00		437568.7	306240.8	744409.6	5968.63					
	551.00		396976.8	233013.8	629990.6	5192.31					
	550.00		357697.0	168252.4	525949.4	4443.22					
	549.00		319729.4	112556.7	432286.1	3721.38					
	548.00		284052.0	71353.9	355405.9	3050.78					
	547.00		249859.7	39501.6	289461.3	2426.10					
	546.00		217125.6	16927.7	234053.3	1858.99					
	545.00		185440.3	5997.4	191837.7	1448.88					
	544.00		155057.3	1755.1	169812.3	1210.16					
	543.00		149034.5	25.3	149059.8	1032.87					
	542.00		130137.2	.0	130137.2	928.91					
	541.00		119134.7	.0	119134.7	833.88					
	540.00		106529.2	.0	106529.2	753.63					
	539.00		92803.1	.0	92803.1	678.63					
	538.00		79257.1	.0	79257.1	606.65					
	537.00		66617.8	.0	66617.8	537.68					
	536.00		55417.3	.0	55417.3	471.32					
	535.00		45043.4	.0	45043.4	407.82					
	534.00		35636.6	.0	35636.6	346.96					
	533.00		27252.9	.0	27252.9	288.90					
	532.00		19924.8	.0	19924.8	233.74					
	531.00		13633.9	.0	13633.9	181.37					
	530.00		8395.8	.0	8395.8	131.78					
	529.00		4558.0	.0	4558.0	86.68					
	528.00		1869.2	.0	1869.2	47.41					
	527.00		292.0	.0	292.0	14.29					
	526.50		.0	.0	.0	.00					

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.47	554.74						

SECTION 138A	DISTANCE					STATION=					
	DOWNSTREAM		UPSTREAM		DRAINAGE AREA, SQ MI 1.00	'W' VALUE BY SEGMENTS					
	CHANNEL 00.	VALLEY 110.	CHANNEL 95.	VALLEY 90.		NO. 1 .050	NO. 2 .045	NO. 3 .090	NO. 4 .040	NO. 5	NO. 6
	ELEVATION					END AREA SQ. FT.					
		CHANNEL	VALLEY	TOTAL							
	558.00	659463.4	1324199.0	1983663.0	10912.93						
	557.00	618331.3	1132162.0	1750493.0	10027.47						
	556.00	577942.8	961849.4	1539791.0	9151.70						
	555.00	538669.8	800118.1	1338788.0	8290.45						
	554.00	500538.6	653670.7	1154209.0	7445.36						
	553.00	463168.9	517412.8	980581.7	6611.05						
	552.00	427636.2	407448.0	835084.2	5817.62						
	551.00	392858.0	306019.4	698877.4	5042.30						
	550.00	359211.3	217393.9	576605.3	4294.14						
	549.00	327116.9	146245.0	473362.0	3583.10						
	548.00	295785.5	84045.4	379830.9	2893.21						
	547.00	265963.3	40163.4	306116.7	2290.81						
	546.00	237564.7	15550.4	253115.0	1727.05						
	545.00	210439.6	2625.1	213064.8	1345.67						
	544.00	184668.5	4.3	184672.7	1133.35						
	543.00	164371.4	.0	164371.4	1041.28						
	542.00	145729.8	.0	145729.8	953.23						
	541.00	128286.7	.0	128286.7	869.38						
	540.00	112014.6	.0	112014.6	796.71						
	539.00	96891.8	.0	96891.8	700.24						
	538.00	83164.0	.0	83164.0	633.77						
	537.00	70431.4	.0	70431.4	562.22						
	536.00	58829.1	.0	58829.1	494.06						
	535.00	48307.6	.0	48307.6	429.23						
	534.00	38841.6	.0	38841.6	367.73						
	533.00	30326.7	.0	30326.7	309.28						
	532.00	22965.9	.0	22965.9	254.63						
	531.00	16560.7	.0	16560.7	203.17						
	530.00	11044.7	.0	11044.7	154.71						
	529.00	6640.9	.0	6640.9	109.97						
	528.00	3200.3	.0	3200.3	68.36						
	527.00	866.7	.0	866.7	30.08						
	526.00	7.2	.0	7.2	1.02						
	525.00	.0	.0	.0	.00						

CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.
37100.00	4.56	554.82						

SECTION 1300.	DISTANCE				DRAINAGE AREA, SQ MI 1.00	STATION=					
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS					
	CHANNEL 95.	VALLEY 90.	CHANNEL 5.	VALLEY 5.		NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4 .045	NO. 5 .090	NO. 6 .040
	ELEVATION		K0 VALUES		TOTAL	END AREA SQ. FT.					
	556.00	536754.2	1018953.0	1655707.0	9630.45						
	555.00	508971.5	854571.6	1443543.0	8747.23						
	554.00	542670.4	709692.1	1252063.0	7861.50						
	553.00	497885.5	577227.2	1075113.0	7041.89						
	552.00	454111.4	453039.6	907151.1	6219.70						
	551.00	412941.7	350573.8	763515.5	5430.97						
	550.00	372780.0	250686.7	631466.7	4675.84						
	549.00	334130.4	182665.8	516796.2	3939.00						
	548.00	297913.3	124168.0	420061.3	3275.44						
	547.00	263209.1	78018.7	341227.8	2655.33						
	546.00	230182.1	44063.2	274245.3	2101.14						
	545.00	199829.0	25949.3	225778.4	1634.56						
	544.00	175594.7	15292.3	190886.9	1414.16						
	543.00	155318.2	8956.6	164284.7	1208.01						
	542.00	136684.4	5073.6	141758.0	1043.22						
	541.00	118696.4	2654.6	121349.9	902.75						
	540.00	103143.0	1401.6	104544.7	782.14						
	539.00	89073.1	743.8	87816.9	678.48						
	538.00	72446.3	326.6	72773.0	586.81						
	537.00	59206.8	110.4	59317.1	504.13						
	536.00	47294.6	17.4	47312.0	429.43						
	535.00	36790.5	.2	36790.7	362.58						
	534.00	27758.0	.0	27758.0	301.04						
	533.00	19820.4	.0	19820.4	241.71						
	532.00	12988.8	.0	12988.8	184.17						
	531.00	7324.6	.0	7324.6	128.40						
	530.00	3055.5	.0	3055.5	74.50						
	529.00	567.5	.0	567.5	24.53						
	528.00	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.27	554.93						

SECTION 1388	DISTANCE				DRAINAGE AREA SQ MI 1.00	STATION-						
	DOWNSTREAM CHANNEL 5.	VALLEY 5.	UPSTREAM CHANNEL 5.	VALLEY 5.		'M' VALUE BY SEGMENTS						
					NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4 .045	NO. 5 .050	NO. 6 .040		
			KD VALUES			END AREA						
	ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.							
	556.00	536754.2	1018953.0	1655787.0							9630.45	
	555.00	538971.5	854571.6	1443543.0							8747.23	
	554.00	542670.4	709692.1	1252363.0							7881.50	
	553.00	497885.5	577227.2	1075113.0							7041.89	
	552.00	454111.4	453039.6	907151.1							6219.70	
	551.00	412941.7	350573.8	763515.5							5439.97	
	550.00	372780.0	258696.7	631456.7							4675.84	
	549.00	334130.4	182665.8	516796.2							3939.06	
	548.00	297913.3	124168.0	422081.3							3275.44	
	547.00	263209.1	79018.7	341227.8							2655.33	
	546.00	230182.1	44063.2	274245.3							2101.14	
	545.00	199829.0	25949.3	225778.4							1694.56	
	544.00	175594.7	15292.3	190886.9							1414.16	
	543.00	155318.2	8966.5	164284.7							1208.01	
	542.00	136684.4	5073.6	141758.0							1043.22	
	541.00	118695.4	2654.6	121349.9							902.75	
	540.00	103143.0	1401.6	104544.7							782.14	
	539.00	87073.1	743.8	87816.9							678.48	
	538.00	72445.3	326.6	72773.0							586.81	
	537.00	59206.8	110.4	59317.1							504.13	
	536.00	47294.6	17.4	47312.0							429.43	
	535.00	36790.5	.2	36790.7							362.58	
	534.00	27758.0	.0	27758.0							301.04	
	533.00	19820.4	.0	19820.4							241.71	
	532.00	12988.8	.0	12988.8							184.17	
	531.00	7324.6	.0	7324.6							128.40	
	530.00	3055.5	.0	3055.5							74.50	
	529.00	567.5	.0	567.5							24.53	
	528.00	.0	.0	.0							.00	

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.27	554.93						

SECTION 1383	DISTANCE		DRAINAGE		STATION=							
	DOWNSTREAM CHANNEL 5.	VALLEY 5.	UPSTREAM CHANNEL 437.	VALLEY 386.	AREA SQ MI 1.00	NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4 .045	NO. 5 .050	NO. 6 .040	
					NO VALUES		'W' VALUE BY SEGMENTS					
					ELEVATION		END AREA					
					CHANNEL	VALLEY	SQ. FT.					
					TOTAL							
		556.00	636754.2	1018953.0	1655707.0	9630.45						
		555.00	588971.5	854571.6	1443543.0	8747.23						
		554.00	542570.4	709692.1	1252363.0	7881.50						
		553.00	497885.5	577227.2	1075113.0	7041.89						
		552.00	454111.4	453039.6	907151.1	6219.70						
		551.00	412941.7	350573.8	763815.5	5438.97						
		550.00	372780.0	258686.7	631466.7	4675.84						
		549.00	334130.4	182565.8	516796.2	3939.06						
		548.00	297913.3	124168.0	422081.3	3275.44						
		547.00	263209.1	78018.7	341227.8	2655.33						
		546.00	230182.1	44063.2	274245.3	2101.14						
		545.00	199829.0	25949.3	225778.4	1694.56						
		544.00	175594.7	15292.3	190886.9	1414.16						
		543.00	155318.2	8966.5	164284.7	1200.01						
		542.00	136684.4	5073.6	141758.0	1043.22						
		541.00	119695.4	2654.6	121349.9	902.75						
		540.00	103143.0	1401.6	104544.7	782.14						
		539.00	87073.1	743.8	87815.9	678.48						
		538.00	72446.3	326.6	72773.0	586.81						
		537.00	59206.8	110.4	59317.1	504.13						
		536.00	47294.6	17.4	47312.0	429.43						
		535.00	36790.5	.2	36790.7	362.50						
		534.00	27758.0	.0	27758.0	301.04						
		533.00	19820.4	.0	19820.4	241.71						
		532.00	12968.8	.0	12968.8	184.17						
		531.00	7324.6	.0	7324.6	139.40						
		530.00	3055.5	.0	3055.5	74.50						
		529.00	567.5	.0	567.5	24.53						
		528.00	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.27	554.93						

SECTION 140	DISTANCE				DRAINAGE AREA SQ MI 1.00	STATION=1260+70 'N' VALUE BY SEGMENTS					
	DOWNSTREAM		UPSTREAM			NO. 1 065	NO. 2 040	NO. 3 090	NO. 4	NO. 5	NO. 6
	CHANNEL 437	VALLEY 396	CHANNEL 402	VALLEY 430							
	ELEVATION				K0 VALUES		END AREA				
		CHANNEL	VALLEY	TOTAL	SQ. FT.						
	565.00	1085691.0	1755675.0	2841366.0	16313.50						
	564.00	1090339.0	1568785.0	2599124.0	15280.17						
	563.00	976672.6	1394842.0	2371465.0	14265.50						
	562.00	923333.6	1224922.0	2148255.0	13256.94						
	561.00	871755.4	1071089.0	1942845.0	12272.79						
	560.00	821050.6	930469.4	1751520.0	11310.83						
	559.00	771655.8	809666.0	1581322.0	10379.34						
	558.00	723601.1	700559.3	1424160.0	9495.84						
	557.00	676439.6	599251.3	1275691.0	8643.79						
	556.00	631004.6	508919.3	1139924.0	7842.18						
	555.00	586417.4	423488.1	1009906.0	7064.12						
	554.00	543494.2	346682.7	890176.9	6329.82						
	553.00	501850.1	276226.1	778076.1	5620.21						
	552.00	461058.7	210002.4	671061.1	4927.07						
	551.00	422456.4	156326.2	578782.6	4271.64						
	550.00	384698.0	107446.0	492144.0	3630.18						
	549.00	348205.3	65759.0	413964.3	3009.66						
	548.00	313738.7	36475.3	350214.0	2421.78						
	547.00	280524.7	17069.9	297594.6	1909.28						
	546.00	248622.8	6110.9	254733.7	1494.52						
	545.00	218629.1	2591.7	221220.7	1289.76						
	544.00	191264.5	965.9	192230.3	1120.20						
	543.00	165324.5	138.3	165462.9	996.58						
	542.00	145827.0	0.0	145835.0	895.20						
	541.00	127560.0	.0	127560.0	806.76						
	540.00	110771.5	.0	110771.5	724.00						
	539.00	94192.3	.0	94192.3	645.55						
	538.00	78950.2	.0	78950.2	570.20						
	537.00	65026.1	.0	65026.1	497.95						
	536.00	52404.0	.0	52404.0	428.80						
	535.00	41148.9	.0	41148.9	362.94						
	534.00	31126.5	.0	31126.5	300.05						
	533.00	22340.0	.0	22340.0	240.14						
	532.00	14857.3	.0	14857.3	183.32						
	531.00	8687.4	.0	8687.4	129.55						
	530.00	3995.7	.0	3995.7	79.00						
	529.00	1209.5	.0	1209.5	34.94						
	528.00	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	5.14	555.21						

SECTION 1404.	DISTANCE				DRAINAGE AREA, SQ MI 1.00	STATION-					
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS					
	CHANNEL 402.	VALLEY 430.	CHANNEL 170.	VALLEY 167.		NO. 1 040	NO. 2 055	NO. 3 040	NO. 4 050	NO. 5	NO. 6
	ELEVATION	CHANNEL	VALLEY	TOTAL	END AREA SQ. FT.						
	560.00	782301.3	905090.5	1708392.0							
	559.00	736433.0	814560.6	1551094.0							
	558.00	691063.8	705036.5	1397100.0							
	557.00	647261.5	608959.4	1256221.0							
	556.00	604228.2	516913.4	1121142.0							
	555.00	562783.1	433442.8	996145.9							
	554.00	522335.4	355824.2	878159.5							
	553.00	482739.4	282107.1	764846.5							
	552.00	445120.8	219599.5	664820.3							
	551.00	408262.9	161771.3	570034.3							
	550.00	372546.0	110561.7	483107.6							
	549.00	338651.3	70718.7	409369.9							
	548.00	305880.2	38671.2	344551.4							
	547.00	274395.3	15246.5	289641.8							
	546.00	245058.8	5521.4	250580.3							
	545.00	220593.6	776.1	221369.7							
	544.00	195782.7	444.3	196227.0							
	543.00	171949.2	267.0	172216.2							
	542.00	149308.8	100.9	149409.7							
	541.00	127889.9	16.9	127906.8							
	540.00	107919.2	0	107919.2							
	539.00	90581.3	0	90581.3							
	538.00	74536.6	0	74536.6							
	537.00	59611.9	0	59611.9							
	536.00	46528.4	0	46528.4							
	535.00	34748.8	0	34748.8							
	534.00	24846.9	0	24846.9							
	533.00	16633.9	0	16633.9							
	532.00	9925.5	0	9925.5							
	531.00	4832.5	0	4832.5							
	530.00	1438.8	0	1438.8							
	529.00	0	0	0							

CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.
37100.00	6.02	555.58						

SECTION	DISTANCE				DRAINAGE AREA, SQ MI	STATION-					
	DOWNSTREAM CHANNEL	VALLEY	UPSTREAM CHANNEL	VALLEY		'N' VALUE BY SEGMENTS					
140C	55.	102.	55.	65.	1.00	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
						.040	.065	.045	.000		
	ELEVATION				TOTAL	END AREA					
	CHANNEL	VALLEY	CHANNEL	VALLEY		SQ. FT.					
	555.00		960442.9	1739970.0	2700413.0						13357.50
	554.00		913220.9	1546663.0	2459884.0						12545.75
	553.00		866352.2	1357061.0	2223414.0						11735.52
	552.00		820095.8	1182279.0	2003175.0						10929.30
	551.00		776152.1	1052222.0	1828384.0						10135.71
	550.00		732500.2	989244.0	1721753.0						9370.06
	559.00		689958.2	891818.7	1581777.0						8689.30
	558.00		648144.2	771424.3	1419559.0						8065.80
	557.00		607750.3	660918.1	1268668.0						7449.10
	556.00		568052.9	555299.0	1123352.0						6835.70
	555.00		529721.7	459338.7	989060.4						6229.69
	554.00		492438.4	370954.2	863392.6						5626.34
	553.00		455853.8	287520.7	743474.6						5027.10
	552.00		421058.7	217756.6	638815.3						4435.54
	551.00		386951.6	153374.4	540326.0						3845.86
	550.00		353876.4	97214.3	451090.7						3262.50
	549.00		322448.4	55385.1	377833.4						2684.41
	548.00		292035.2	27983.2	320018.4						2153.73
	547.00		262645.9	12892.4	275539.3						1711.22
	546.00		234651.4	6558.4	243219.8						1495.02
	545.00		208507.8	4728.5	213236.3						1324.47
	544.00		184476.4	2123.2	186599.5						1177.60
	543.00		162112.4	734.6	162847.0						1048.85
	542.00		140091.4	154.2	141055.6						939.02
	541.00		120835.9	20.9	120855.8						845.00
	540.00		102154.1	.0	102154.1						758.00
	539.00		85797.8	.0	85797.8						674.00
	538.00		70651.2	.0	70651.2						592.00
	537.00		56741.3	.0	56741.3						512.00
	536.00		44183.8	.0	44183.8						434.12
	535.00		33014.2	.0	33014.2						358.25
	534.00		23529.5	.0	23529.5						285.45
	533.00		15606.7	.0	15606.7						216.98
	532.00		9122.3	.0	9122.3						152.80
	531.00		4223.5	.0	4223.5						93.20
	530.00		1076.6	.0	1076.6						38.34
	529.00		.0	.0	.0						.00

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	5.41	556.00						

SECTION 1400.	DISTANCE				DRAINAGE AREA SQ MI 1.00	STATION=					
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS					
	CHANNEL 55.	VALLEY 65.	CHANNEL 80.	VALLEY 172.		NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4	NO. 5	NO. 6
		ELEVATION	CHANNEL	VALLEY	TOTAL	END AREA SQ. FT.					
		555.00	899787.8	2179355.0	3079143.0	15871.00					
		554.00	856955.1	1988699.0	2845554.0	15061.90					
		553.00	814432.1	1800649.0	2615082.0	14353.16					
		552.00	773148.1	1623022.0	2395171.0	13445.86					
		551.00	732495.4	1450874.0	2183369.0	12639.30					
		550.00	692789.6	1286941.0	1979730.0	11833.84					
		559.00	654049.9	1131780.0	1785830.0	11030.22					
		558.00	615954.2	982467.9	1598423.0	10227.82					
		557.00	579100.6	844566.6	1423667.0	9428.14					
		556.00	542856.0	712357.3	1255213.0	8629.78					
		555.00	507805.0	591502.8	1099308.0	7833.98					
		554.00	473668.8	479721.3	953390.1	7040.10					
		553.00	440142.4	373969.3	814131.8	6247.50					
		552.00	408176.1	284500.3	692776.4	5458.10					
		551.00	376808.9	201952.6	578761.5	4669.90					
		550.00	346340.3	129416.8	475756.1	3883.50					
		549.00	317303.8	74777.4	392081.2	3100.54					
		548.00	289148.3	35686.7	324836.0	2358.90					
		547.00	261882.0	12707.4	274589.4	1738.21					
		546.00	235822.5	12707.4	248529.9	1490.24					
		545.00	210915.5	8511.3	219426.8	1313.85					
		544.00	187117.8	4768.3	191896.1	1168.01					
		543.00	164431.7	2657.7	167089.5	1040.50					
		542.00	142883.2	1617.2	144500.5	931.59					
		541.00	123500.7	1072.5	123573.3	837.80					
		540.00	103500.8	696.9	104196.7	750.50					
		539.00	86904.0	383.8	87287.8	666.70					
		538.00	71496.5	178.2	71674.8	585.30					
		537.00	57320.8	60.4	57381.3	506.30					
		536.00	44509.8	11.8	44521.7	429.84					
		535.00	32883.8	.0	32883.8	355.50					
		534.00	23664.6	.0	23664.6	284.63					
		533.00	15735.0	.0	15735.0	217.25					
		532.00	9209.1	.0	9209.1	153.60					
		531.00	4253.8	.0	4253.8	93.90					
		530.00	1067.4	.0	1067.4	38.36					
		529.00	.0	.0	.0	.00					
	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.		
	37100.00	4.19	556.27								

SECTION 141.	DISTANCE		UPSTREAM		DRAINAGE AREA, SQ MI 1.00	STATION-1277+15 'N' VALUE BY SEGMENTS						
	DOWNSTREAM CHANNEL 80.	VALLEY 172.	CHANNEL 106.	VALLEY 100.		NO. 1 .060	NO. 2 .045	NO. 3	NO. 4	NO. 5	NO. 6	
	ELEVATION		CHANNEL VALLEY		KD VALUES		END AREA SQ. FT.					
	565.00		1201515.0		857228.6							12262.00
	564.00		1049494.0		811310.1							11433.16
	563.00		900649.1		755825.1							10594.78
	562.00		764510.4		722079.5							9738.25
	561.00		649336.9		679200.7							8898.01
	560.00		555508.1		637523.5							8067.22
	559.00		523359.8		597348.0							7393.26
	558.00		508768.1		557940.4							6823.86
	557.00		444542.6		520174.4							6282.82
	556.00		369889.2		483206.3							5749.91
	555.00		302161.3		447787.4							5221.09
	554.00		240047.4		413535.7							4695.36
	553.00		181576.6		380062.1							4171.69
	552.00		133449.3		348545.9							3653.14
	551.00		89443.2		317769.8							3136.53
	550.00		51768.2		288103.5							2622.00
	549.00		25525.1		258181.3							2113.56
	548.00		9685.9		233318.3							1678.33
	547.00		2197.7		207721.6							1333.98
	546.00		366.3		184365.3							1155.75
	545.00		.0		167255.2							1047.14
	544.00		.0		148346.8							950.68
	543.00		.0		130371.3							876.37
	542.00		.0		113505.6							794.64
	541.00		.0		97737.6							715.49
	540.00		.0		83211.8							639.29
	539.00		.0		69804.3							565.77
	538.00		.0		57507.3							494.94
	537.00		.0		46316.3							426.80
	536.00		.0		36298.4							361.50
	535.00		.0		27350.4							298.79
	534.00		.0		19487.7							238.65
	533.00		.0		12786.9							181.19
	532.00		.0		7275.4							126.37
	531.00		.0		3133.8							74.34
	530.00		.0		700.6							26.93
	529.00		.0		.0							.00

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	6.30	556.27						

SECTION 142.	DISTANCE		DRAINAGE		STATION=1289+69						
	DOWNSTREAM CHANNEL 105.	VALLEY 100.	UPSTREAM CHANNEL 1.	VALLEY 1.	AREA, SQ MI 1.00	'N' VALUE BY SEGMENTS					
					NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 NO. 6						
					.050 .040						
					END AREA						
					SQ. FT.						
		ELEVATION	CHANNEL	VALLEY	TOTAL						
		565.00	1421428.0	1241164.0	2662592.0	14153.50					
		564.00	1331111.0	1086537.0	2417648.0	13211.30					
		563.00	1241772.0	935082.2	2176854.0	12269.82					
		562.00	1156343.0	796315.2	1952659.0	11331.22					
		561.00	1073907.0	671725.1	1745039.0	10395.82					
		560.00	995607.9	566547.8	1562255.0	9468.73					
		559.00	925394.3	478755.4	1444150.0	8658.80					
		558.00	860504.7	408657.6	1369162.0	7927.65					
		557.00	799618.3	345050.8	1244669.0	7291.80					
		556.00	740644.0	289842.6	1110487.0	6682.11					
		555.00	685315.0	241741.6	987056.6	6081.80					
		554.00	632629.9	200322.6	871952.6	5488.51					
		553.00	581707.7	160692.1	762399.8	4899.92					
		552.00	535009.9	122335.6	667375.6	4323.04					
		551.00	489912.1	88260.1	578172.1	3750.55					
		550.00	447093.8	59605.1	497699.0	3184.65					
		549.00	401035.2	27962.5	428997.7	2650.54					
		548.00	356847.8	12296.5	369144.3	2193.40					
		547.00	314496.4	2832.7	317429.1	1814.95					
		546.00	274498.3	171.5	274669.8	1545.93					
		545.00	239271.1	31.5	239302.7	1400.31					
		544.00	209449.7	.0	209449.7	1266.15					
		543.00	183914.3	.0	183914.3	1141.42					
		542.00	160768.5	.0	160768.5	1024.44					
		541.00	139923.3	.0	139923.3	915.20					
		540.00	121586.9	.0	121586.9	814.83					
		539.00	101826.7	.0	101826.7	720.33					
		538.00	83759.8	.0	83759.8	629.50					
		537.00	67371.5	.0	67371.5	542.33					
		536.00	52753.1	.0	52753.1	459.05					
		535.00	39807.8	.0	39807.8	379.34					
		534.00	28687.6	.0	28687.6	303.69					
		533.00	19328.3	.0	19328.3	232.79					
		532.00	11630.3	.0	11630.3	165.60					
		531.00	5735.5	.0	5735.5	105.40					
		530.00	1755.1	.0	1755.1	49.15					
		529.00	.0	.0	.0	.00					

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	5.27	555.60						

APPENDIX 2

PROPOSED CONDITIONS ANALYSIS

TITLE WHITE ROCK CREEK AT WINNWOOD AND CELESTIAL RD. - WALL

CSH-ELEV	36700.	553.70				
FINAL	142.					
XSECTION	136.	150.	185.		1.	
GENERAL	544.			1.	1.	
SEGMENT	1.	D	0.12	190.	545.	
SEGMENT	2.	C	0.05	295.	544.	
SEGMENT	3.	D	0.09	845.	560.	
DATA	0.	560.	140.	550.	190.	545.
DATA	190.	545.	263.	540.	267.	535.
DATA	221.	524.5	261.	524.5	268.	530.
DATA	287.	540.	295.	544.	295.	544.
DATA	375.	544.	385.	542.	408.	542.
DATA	412.	543.	560.	545.	680.	550.
DATA	845.	560.	845.	560.		

ENTABLE						
QWF	37100.				-1.	
XSECTION	137.	330.	336.		1.	
GENERAL	541.			1.	1.	
SEGMENT	1.	D	0.12	195.	544.	
SEGMENT	2.	C	0.05	305.	541.	
SEGMENT	3.	D	0.09	610.	543.	
SEGMENT	4.	D	0.04	990.	560.	
DATA	0.	560.	9.	555.	23.	535.
DATA	26.	531.	37.	531.	60.	540.
DATA	80.	544.	163.	545.	127.	545.
DATA	195.	544.	218.	540.	228.	525.5
DATA	250.	525.5				
DATA	270.	535.	295.	540.	305.	541.
DATA	305.	541.	335.	541.	385.	546.
DATA	420.	545.8	440.	545.8	465.	546.
DATA	610.	543.	610.	543.	710.	545.
DATA	817.	550.	990.	560.	960.	560.

ENTABLE						
XSECTION	137A	5.	5.		1.	
GENERAL	545.			1.	1.	
SEGMENT	1.	D	0.05	228.	544.	
SEGMENT	2.	C	0.045	347.	545.	
SEGMENT	3.	D	0.09	675.	543.	
SEGMENT	4.	D	0.04	1050.	560.	
DATA	0.	560.	25.	550.	70.	555.
DATA	200.	547.	228.	544.	228.	544.
DATA	230.	541.	240.	541.	244.	540.
DATA	268.	525.5	295.	525.5	310.	530.
DATA	320.	540.	335.	544.	347.	545.
DATA	347.	545.	485.	545.8	505.	545.8
DATA	530.	546.	675.	543.	675.	543.
DATA	775.	545.	885.	550.	1050.	560.

ENTABLE						
XSECTION	137B	20.	20.		1.	
GENERAL	545.			1.	1.	
SEGMENT	1.	D	0.05	155.	555.74	
SEGMENT	2.	D	0.025	160.	549.46	
SEGMENT	3.	D	0.042	228.	544.	
SEGMENT	4.	C	0.045	347.	545.	
SEGMENT	5.	D	0.09	675.	543.	
SEGMENT	6.	D	0.04	1050.	560.	
DATA	0.	560.	155.	555.74	155.	551.77
DATA	160.	551.77	160.	549.46		
DATA	200.	547.	228.	544.	228.	544.
DATA	230.	541.	240.	541.	244.	540.
DATA	268.	525.5	295.	525.5	310.	530.
DATA	320.	540.	335.	544.	347.	545.

DATA	530.	545.	575.	543.	575.	543.
DATA	775.	545.	585.	550.	1050.	550.
ENDTABLE						
XSECTION	130.	80.	110.			1.
GENERAL	545.			1.	1.	
SEGMENT	1.	D	0.05	155.	555.74	
SEGMENT	2.	D	0.025	150.	549.46	
SEGMENT	3.	D	0.042	228.	544.	
SEGMENT	4.	C	0.045	347.	545.	
SEGMENT	5.	D	0.09	675.	543.	
SEGMENT	6.	D	0.04	1050.	550.	
DATA	0.	550.	155.	555.74	155.	551.77
DATA	150.	551.77	150.	549.46		
DATA	200.	547.	228.	544.	228.	544.
DATA	230.	541.	240.	541.	244.	540.
DATA	250.	525.5	295.	525.5	310.	530.
DATA	300.	540.	335.	544.	347.	545.
DATA	347.	545.	485.	545.8	505.	545.8
DATA	530.	545.	575.	543.	575.	543.
DATA	775.	545.	585.	550.	1050.	550.
ENDTABLE						
XSECTION	130A.	95.	90.			1.
GENERAL	543.8			1.	1.	
SEGMENT	1.	D	0.05	155.	555.78	
SEGMENT	2.	D	0.025	150.	547.02	
SEGMENT	3.	D	0.042	237.	544.3	
SEGMENT	4.	C	0.045	330.	543.8	
SEGMENT	5.	D	0.09	450.	545.8	
SEGMENT	6.	D	0.04	891.1	555.00	
DATA	0.	557.5	155.	555.78	155.	551.78
DATA	150.	551.78	150.	547.02	200.	544.5
DATA	237.	544.3	257.	525.4	274.	525.8
DATA	292.	525.6	330.	543.8	340.	544.1
DATA	397.	547.5	450.	545.8	491.	545.7
DATA	600.	545.1	700.	544.5	800.	545.7
DATA	891.	553.6	891.1	555.00		
ENDTABLE						
XSECTION	130C.	5.	5.			1.
GENERAL	540.			1.	1.	
SEGMENT	1.	D	0.05	155.	555.95	
SEGMENT	2.	D	0.025	150.	545.58	
SEGMENT	3.	D	0.042	309.	535.	
SEGMENT	4.	C	0.045	395.	545.	
SEGMENT	5.	D	0.09	450.	545.	
SEGMENT	6.	D	0.04	890.	555.	
DATA	0.	555.95	155.	555.95	155.	551.95
DATA	150.	551.95	150.	545.58	200.	544.1
DATA	229.	541.2	247.	534.7	255.	543.2
DATA	290.	540.7	295.	541.	289.	540.
DATA	290.	539.	302.	538.	305.	537.
DATA	309.	535.	312.	530.	315.	529.
DATA	362.	528.	363.	529.	365.	530.
DATA	371.	535.	374.	540.	378.	541.
DATA	390.	547.	395.	543.	391.	544.
DATA	395.	545.	400.	545.	453.	545.
DATA	549.	545.	515.	544.	640.	543.
DATA	553.	544.	650.	545.	708.	545.
DATA	750.	547.	793.	548.	808.	549.
DATA	800.	549.	855.	550.	861.	551.
DATA	865.	552.	870.	553.	875.	554.
DATA	884.	555.	890.	555.		
ENDTABLE						
XSECTION	130D.	5.	5.			1.
GENERAL	540.			1.	1.	
SEGMENT	1.	D	0.05	155.	555.95	

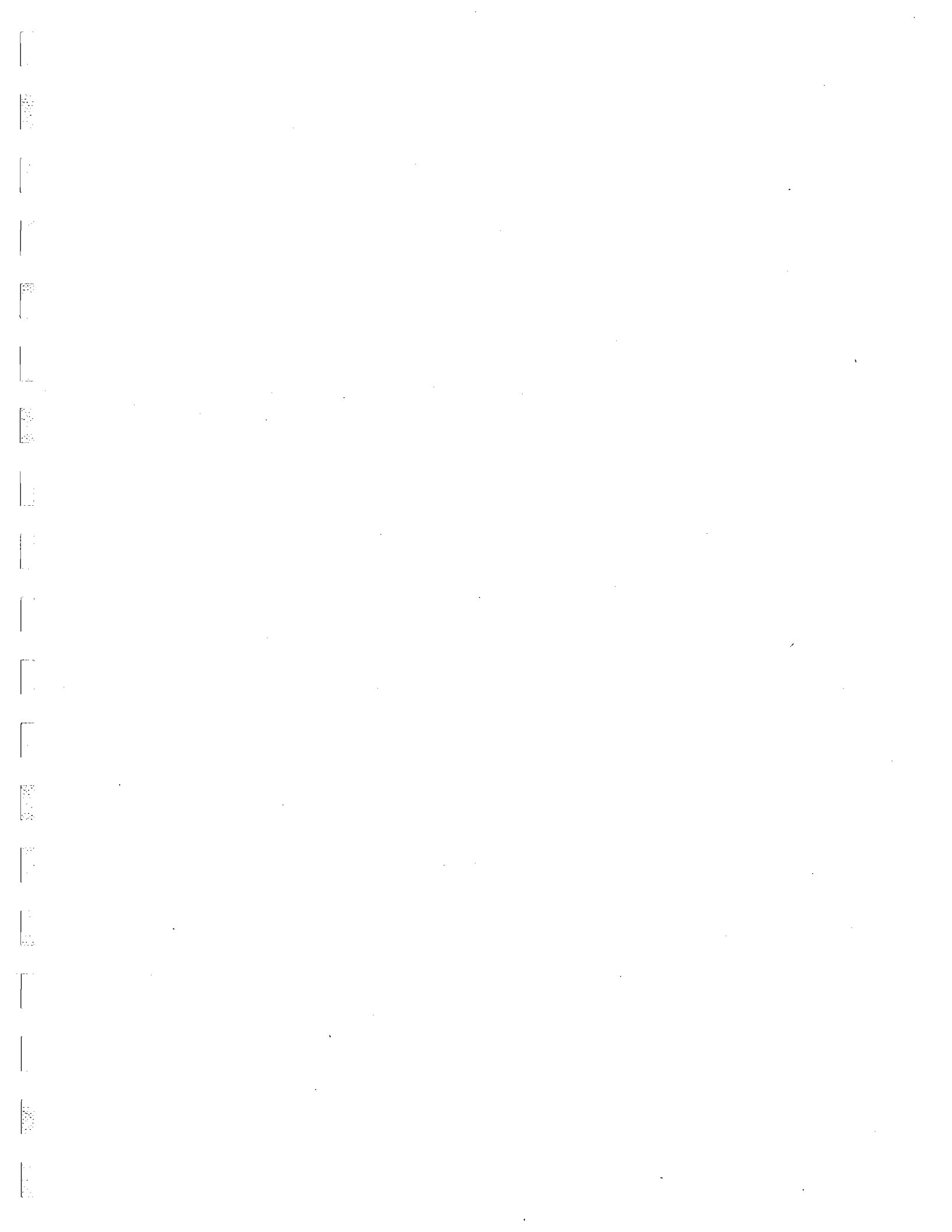
SEGMENT	3.	D	0.042	309.	535.	
SEGMENT	4.	C	0.045	395.	545.	
SEGMENT	5.	D	0.09	463.	545.	
SEGMENT	6.	D	0.04	890.	555.	
DATA	0.	555.95	155.	555.95	155.	551.95
DATA	150.	551.95	150.	546.50	200.	544.1
DATA	229.	541.2	247.	534.7	265.	543.2
DATA	290.	540.7	285.	541.	289.	540.
DATA	298.	539.	302.	538.	305.	537.
DATA	309.	535.	312.	530.	315.	529.
DATA	362.	528.	363.	529.	365.	530.
DATA	371.	535.	374.	540.	378.	541.
DATA	390.	542.	385.	543.	391.	544.
DATA	395.	545.	400.	546.	463.	546.
DATA	549.	545.	615.	544.	640.	543.
DATA	653.	544.	660.	545.	708.	546.
DATA	750.	547.	793.	548.	808.	549.
DATA	830.	549.	855.	550.	861.	551.
DATA	865.	552.	870.	553.	875.	554.
DATA	884.	555.	890.	555.		

ENDTABLE						
XSECTION	1380.	437.	395.			1.
GENERAL	540.			1.	1.	
SEGMENT	1.	D	0.05	229.	541.2	
SEGMENT	2.	C	0.045	265.	543.2	
SEGMENT	3.	D	0.05	309.	535.	
SEGMENT	4.	C	0.045	395.	545.	
SEGMENT	5.	D	0.09	463.	545.	
SEGMENT	6.	D	0.04	890.	555.	
DATA	0.	555.	100.	550.3	200.	544.1
DATA	229.	541.2	247.	534.7	265.	543.2
DATA	290.	540.7	285.	541.	289.	540.
DATA	298.	539.	302.	538.	305.	537.
DATA	309.	535.	312.	530.	315.	529.
DATA	362.	528.	363.	529.	365.	530.
DATA	371.	535.	374.	540.	378.	541.
DATA	390.	542.	385.	543.	391.	544.
DATA	395.	545.	400.	546.	463.	546.
DATA	549.	545.	615.	544.	640.	543.
DATA	653.	544.	660.	545.	708.	546.
DATA	750.	547.	793.	548.	808.	549.
DATA	830.	549.	855.	550.	861.	551.
DATA	865.	552.	870.	553.	875.	554.
DATA	884.	555.	890.	555.		

ENDTABLE						
XSECTION	140.	402.	430.			1. 1283+70
GENERAL	543.			1.	1.	
SEGMENT	1.	D	0.065	575.	545.	
SEGMENT	2.	C	0.040	670.	543.	
SEGMENT	3.	D	0.090	920.	565.	
DATA	-120.	565.				
DATA	-120.	560.	0.	555.	130.	548.
DATA	255.	545.			270.	544.
DATA	300.	545.	360.	547.	390.	547.
DATA	430.	547.	575.	545.	578.	540.
DATA	594.	530.	610.	528.	640.	532.
DATA	658.	540.	670.	543.	690.	542.
DATA	720.	550.	740.	554.	790.	558.
DATA	860.	562.	920.	565.		

ENDTABLE						
XSECTION	1404.	1.	1.			1.
GENERAL	545.			1.	1.	
SEGMENT	1.	D	0.04	357.	547.	
SEGMENT	2.	D	0.065	560.	545.	
SEGMENT	3.	C	0.04	648.	540.	

SEGMENT	A.	0	0.000	152.	557.	
DATA	0.	550.	155.	550.	220.	545.
DATA			283.	545.	302.	545.
DATA	357.	547.	442.	547.	560.	545.
DATA	563.	545.	557.	540.	570.	535.
DATA	583.	530.	590.	529.	625.	529.
DATA	630.	530.	641.	535.	648.	540.
DATA	651.	541.	652.	542.	655.	543.
DATA	655.	544.	662.	545.	690.	545.
DATA	710.	550.	729.	555.	735.	555.
DATA	752.	557.				
ENDTABLE						



SECTION	CHANNEL	DOWNSTREAM	UPSTREAM	DRAINAGE	STATION
156	CHANNEL	WALLEY	CHANNEL	WALLEY	NO. 1
	1	155	155	1.00	NO. 2
					NO. 3
					NO. 4
					NO. 5
					NO. 6
DISTANCE-----					
ELEVATION					
560.00	648849.3	644471.6	558953.8	1180043.0	10086.08
559.00	611689.6	575498.9	498043.4	1073542.0	9413.99
557.00	539723.7	430221.8	370753.6	969945.5	8636.09
556.00	505426.2	370753.6	370753.6	876159.8	7907.60
555.00	471461.0	313056.3	313056.3	784517.3	7190.09
554.00	439009.7	263347.0	782356.7	782356.7	6521.99
553.00	407947.3	216040.0	623087.3	623087.3	5629.45
552.00	376225.4	174338.8	550564.3	550564.3	5253.20
551.00	346505.6	137711.4	494217.0	494217.0	4671.11
550.00	317419.8	100998.4	421419.2	421419.2	4108.50
549.00	289790.1	76948.5	366798.6	366798.6	3699.50
548.00	262993.8	53281.3	316275.2	316275.2	3094.50
547.00	237030.9	32996.9	270027.9	270027.9	2623.50
546.00	212519.0	18402.8	230921.8	230921.8	2193.00
545.00	189899.6	7896.0	197795.6	197795.6	1796.19
544.00	169199.4	1549.5	170748.9	170748.9	1434.55
543.00	152206.9	526.9	153733.8	153733.8	1269.22
542.00	138285.2	110.1	138095.2	138095.2	1145.23
541.00	124246.1	.0	124246.1	124246.1	1044.67
540.00	111196.8	.0	111196.8	111196.8	957.91
539.00	98155.3	.0	98155.3	98155.3	875.25
538.00	85922.6	.0	85922.6	85922.6	795.51
537.00	74469.8	.0	74469.8	74469.8	718.37
536.00	63758.1	.0	63758.1	63758.1	643.69
535.00	53938.9	.0	53938.9	53938.9	571.87
534.00	45021.4	.0	45021.4	45021.4	503.02
533.00	36962.4	.0	36962.4	36962.4	437.37
532.00	29663.4	.0	29663.4	29663.4	374.79
531.00	23157.5	.0	23157.5	23157.5	315.48
530.00	17444.5	.0	17444.5	17444.5	259.51
529.00	12409.9	.0	12409.9	12409.9	206.50
528.00	8105.4	.0	8105.4	8105.4	156.03
527.00	4610.5	.0	4610.5	4610.5	108.21
526.00	1966.1	.0	1966.1	1966.1	62.97
525.00	319.0	.0	319.0	319.0	20.34
524.50	.0	.0	.0	.0	.00
TOTAL					
50. FT.					
RND AREA					
NO. 1					
NO. 2					
NO. 3					
NO. 4					
NO. 5					
NO. 6					

CFS VELOCITY ELEV. CFS VELOCITY ELEV. CFS VELOCITY ELEV. CFS VELOCITY ELEV.

559.70 5.81 36700.00

SECTION 137A	DISTANCE-----		UPSTREAM		DRAINAGE	STATION=					
	DOWNSTREAM	CHANNEL	CHANNEL	VALLEY	AREA, SQ MI	'W' VALUE BY SEGMENTS					
	336.	336.	5.	5.	1.00	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
						.050	.045	.050	.040		
			KD VALUES-----			END AREA					
		ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.					
		560.00	819843.8	1337897.0	2157740.0						13387.55
		559.00	766996.2	1165262.0	1932249.0						12359.50
		558.00	715993.4	1009623.0	1725616.0						11357.00
		557.00	665470.9	858586.9	1524058.0						10371.90
		556.00	617316.0	726000.6	1345317.0						9436.68
		555.00	569926.6	603598.3	1173525.0						8517.64
		554.00	524323.4	493626.5	1017950.0						7636.55
		553.00	480448.7	396580.3	877028.9						6792.12
		552.00	437568.7	306840.8	744409.6						5968.63
		551.00	396976.8	236013.8	629990.5						5192.31
		550.00	357697.0	166252.4	529949.4						4443.22
		549.00	319729.4	112556.7	432286.1						3721.98
		548.00	284052.0	71353.9	355405.9						3050.78
		547.00	249859.7	39601.6	299461.3						2426.10
		546.00	217125.6	16927.7	234053.3						1859.99
		545.00	186440.3	5397.4	191837.7						1448.00
		544.00	160057.3	1755.1	169812.3						1210.16
		543.00	149034.5	25.3	149059.6						1032.87
		542.00	130137.2	.0	130137.2						928.91
		541.00	119134.7	.0	119134.7						833.00
		540.00	106529.2	.0	106529.2						753.63
		539.00	92903.1	.0	92903.1						678.63
		538.00	79257.1	.0	79257.1						606.65
		537.00	66817.8	.0	66817.8						537.60
		536.00	55417.3	.0	55417.3						471.32
		535.00	45043.4	.0	45043.4						407.82
		534.00	35636.6	.0	35636.6						346.96
		533.00	27252.9	.0	27252.9						288.90
		532.00	19924.8	.0	19924.8						233.74
		531.00	13633.9	.0	13633.9						181.37
		530.00	8395.8	.0	8395.8						131.78
		529.00	4568.0	.0	4568.0						86.60
		528.00	1969.2	.0	1969.2						47.41
		527.00	292.0	.0	292.0						14.29
		526.50	.0	.0	.0						.00

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.49	554.71						

SECTION 1378.	DISTANCE-----				DRAINAGE AREA, SQ MI 1.00	STATION=					
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS					
	CHANNEL 5.	VALLEY 5.	CHANNEL 20.	VALLEY 20.		NO. 1 .050	NO. 2 .025	NO. 3 .042	NO. 4 .045	NO. 5 .090	NO. 6 .040
	-----KD VALUES-----					END AREA					
	ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.						
	560.00	819843.8	1326454.0	2146298.0	12877.15						
	559.00	766986.2	1157789.0	1924775.0	11856.24						
	558.00	715993.4	1006896.0	1722890.0	10904.34						
	557.00	665470.9	860173.1	1525644.0	9969.43						
	556.00	617316.0	733218.6	1350535.0	9118.44						
	555.00	569926.6	611651.3	1181578.0	8281.47						
	554.00	524323.4	502654.8	1026978.0	7477.22						
	553.00	480448.7	405147.4	885596.0	6651.45						
	552.00	437568.7	314227.3	751796.1	5916.63						
	551.00	396976.8	230284.7	626261.5	5169.15						
	550.00	357697.0	171511.1	529208.1	4437.22						
	549.00	319729.4	113906.6	433636.0	3720.85						
	548.00	284052.0	72056.5	356108.4	3050.79						
	547.00	249859.7	39933.0	289792.7	2426.10						
	546.00	217125.6	17038.2	234163.8	1858.99						
	545.00	186440.3	5414.0	191854.3	1448.08						
	544.00	168057.3	1758.3	169815.5	1210.16						
	543.00	149034.5	25.3	149059.8	1032.87						
	542.00	130137.2	.0	130137.2	928.91						
	541.00	119134.7	.0	119134.7	833.00						
	540.00	106529.2	.0	106529.2	753.63						
	539.00	92803.1	.0	92803.1	678.63						
	538.00	79257.1	.0	79257.1	606.65						
	537.00	66817.8	.0	66817.8	537.60						
	536.00	55417.3	.0	55417.3	471.32						
	535.00	45043.4	.0	45043.4	407.82						
	534.00	35636.6	.0	35636.6	346.96						
	533.00	27252.9	.0	27252.9	288.90						
	532.00	19924.8	.0	19924.8	233.74						
	531.00	13633.9	.0	13633.9	181.37						
	530.00	8395.8	.0	8395.8	131.78						
	529.00	4568.0	.0	4568.0	86.60						
	528.00	1869.2	.0	1869.2	47.41						
	527.00	292.0	.0	292.0	14.29						
	526.50	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.61	554.71						

SECTION 138	DISTANCE					STATION=					
	DOWNSTREAM		UPSTREAM		DRAINAGE AREA, SQ MI 1.00	'W' VALUE BY SEGMENTS					
	CHANNEL 20.	VALLEY 20.	CHANNEL 80.	VALLEY 110.		NO. 1 .050	NO. 2 .025	NO. 3 .042	NO. 4 .045	NO. 5 .050	NO. 6 .040
	ELEVATION					END AREA					
	CHANNEL		VALLEY		TOTAL	SQ. FT.					
	560.00	819843.8	1326454.0	2146298.0	12877.15						
	559.00	766986.2	1157789.0	1924775.0	11856.24						
	558.00	715993.4	1006896.0	1722890.0	10904.34						
	557.00	665470.9	860173.1	1525644.0	9969.43						
	556.00	617316.0	732218.6	1350535.0	9118.44						
	555.00	569926.6	611651.3	1181578.0	8281.47						
	554.00	524323.4	502654.8	1026978.0	7477.22						
	553.00	480448.7	405147.4	885596.0	6691.45						
	552.00	437568.7	314227.3	751796.1	5916.63						
	551.00	396976.8	238284.7	635261.5	5169.15						
	550.00	357697.0	171511.1	529208.1	4437.22						
	549.00	319729.4	113906.6	433636.9	3720.85						
	548.00	284052.0	72056.5	356108.4	3050.79						
	547.00	249859.7	39933.0	289792.7	2426.10						
	546.00	217125.6	17038.2	234163.8	1858.99						
	545.00	186440.3	5414.0	191854.3	1448.08						
	544.00	168057.3	1758.3	169815.5	1210.16						
	543.00	149034.5	25.3	149059.8	1032.87						
	542.00	130137.2	.0	130137.2	928.91						
	541.00	119134.7	.0	119134.7	833.88						
	540.00	106529.2	.0	106529.2	753.63						
	539.00	92903.1	.0	92903.1	678.63						
	538.00	79257.1	.0	79257.1	606.65						
	537.00	66817.8	.0	66817.8	537.68						
	536.00	55417.3	.0	55417.3	471.32						
	535.00	45043.4	.0	45043.4	407.82						
	534.00	35636.6	.0	35636.6	346.96						
	533.00	27252.9	.0	27252.9	288.98						
	532.00	19924.8	.0	19924.8	233.74						
	531.00	13633.9	.0	13633.9	181.37						
	530.00	8395.8	.0	8395.8	131.78						
	529.00	4568.0	.0	4568.0	86.60						
	528.00	1869.2	.0	1869.2	47.41						
	527.00	292.0	.0	292.0	14.29						
	526.50	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.60	554.73						

SECTION 135A.	DISTANCE				DRAINAGE AREA, SQ MI 1.00	STATION=						
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS						
	CHANNEL 00.	VALLEY 110.	CHANNEL 95.	VALLEY 90.		NO. 1 .050	NO. 2 .035	NO. 3 .042	NO. 4 .045	NO. 5 .050	NO. 6 .040	
	ELEVATION				KD VALUES		END AREA					
			CHANNEL	VALLEY	TOTAL	SQ. FT.						
	558.00		659463.4	1297851.0	1957315.0	10224.42						
	557.00		618331.3	1120524.0	1738855.0	9367.40						
	556.00		577942.8	952175.4	1530118.0	8554.90						
	555.00		538669.8	797295.6	1335965.0	7809.10						
	554.00		500538.6	655903.3	1156342.0	7070.17						
	553.00		463168.9	523237.0	986405.9	6335.63						
	552.00		427636.2	414552.9	842229.1	5619.28						
	551.00		392858.0	313707.2	706565.1	4912.90						
	550.00		359211.3	224457.9	583669.2	4221.46						
	549.00		327116.9	151650.7	478767.6	3546.91						
	548.00		295785.5	87519.5	383304.9	2883.74						
	547.00		265953.3	41647.7	307601.0	2249.24						
	546.00		237564.7	16141.6	253706.3	1727.05						
	545.00		210439.6	2782.3	213221.9	1345.67						
	544.00		184668.5	4.3	184672.7	1133.35						
	543.00		164371.4	.0	164371.4	1041.28						
	542.00		145729.8	.0	145729.8	953.23						
	541.00		128285.7	.0	128285.7	868.30						
	540.00		112014.6	.0	112014.6	786.71						
	539.00		96891.8	.0	96891.8	708.24						
	538.00		83154.0	.0	83154.0	633.77						
	537.00		70431.4	.0	70431.4	562.22						
	536.00		58829.1	.0	58829.1	494.05						
	535.00		48307.6	.0	48307.6	429.23						
	534.00		38841.6	.0	38841.6	367.73						
	533.00		30325.7	.0	30325.7	309.28						
	532.00		22965.9	.0	22965.9	254.63						
	531.00		16560.7	.0	16560.7	203.17						
	530.00		11044.7	.0	11044.7	154.71						
	529.00		6640.9	.0	6640.9	109.97						
	528.00		3200.3	.0	3200.3	58.36						
	527.00		866.7	.0	866.7	30.08						
	526.00		7.2	.0	7.2	1.02						
	525.00		.0	.0	.0	.00						
	CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.			
	37100.00	4.85	554.78									

SECTION 1980.	DISTANCE				DRAINAGE AREA, SQ MI 1.00	STATION-					
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS					
	CHANNEL 95.	VALEY 90.	CHANNEL 5.	VALEY 5.		NO. 1 .050	NO. 2 .025	NO. 3 .042	NO. 4 .045	NO. 5 .050	NO. 6 .040
	ELEVATION		CHANNEL VALEY		TOTAL	END AREA SQ. FT.					
	555.00		503276.5		1158357.0	6869.85					
	555.00		467858.2		994100.7	8131.27					
	554.00		433449.3		841812.1	7407.50					
	553.00		400070.9		699548.1	6529.60					
	552.00		367379.6		563967.9	5975.60					
	551.00		336452.3		448820.4	5273.87					
	550.00		306205.2		342577.0	4579.26					
	549.00		276978.2		252888.1	3891.85					
	548.00		249384.4		180543.4	3255.95					
	547.00		222900.5		121957.3	2650.53					
	546.00		197361.1		77290.1	2101.14					
	545.00		173326.7		52536.9	1694.55					
	544.00		155889.5		35831.1	1414.16					
	543.00		140061.3		24106.9	1200.01					
	542.00		126599.9		15765.2	1043.22					
	541.00		112093.7		9972.0	902.75					
	540.00		99024.1		5959.7	782.14					
	539.00		84714.7		3390.9	679.48					
	538.00		71262.0		1629.0	586.81					
	537.00		58762.1		685.9	504.13					
	536.00		47197.5		123.8	429.43					
	535.00		36784.8		6.1	362.58					
	534.00		27758.0		.0	301.04					
	533.00		19820.4		.0	241.71					
	532.00		12988.8		.0	184.17					
	531.00		7324.6		.0	139.40					
	530.00		3055.5		.0	74.50					
	529.00		567.5		.0	24.53					
	528.00		.0		.0	.00					

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.61	554.88						

SECTION 132B	DISTANCE				DRAINAGE AREA, SQ MI 1.00	STATION-					
	DOWNSTREAM		UPSTREAM			'N' VALUE BY SEGMENTS					
	CHANNEL 5.	VALLEY 5.	CHANNEL 5.	VALLEY 5.		NO. 1 .050	NO. 2 .025	NO. 3 .042	NO. 4 .045	NO. 5 .050	NO. 6 .040
	ELEVATION		K0 VALUES		TOTAL	END AREA SQ. FT.					
	556.00	503276.5	1158357.0	1661634.0	8869.85						
	555.00	467858.2	994100.7	1461959.0	8131.27						
	554.00	433449.3	841812.1	1275261.0	7407.50						
	553.00	400070.9	699548.1	1099619.0	6689.60						
	552.00	367379.6	563967.9	931347.5	5975.60						
	551.00	336452.3	440020.4	784472.8	5273.87						
	550.00	306205.2	342577.0	648782.3	4578.26						
	549.00	276978.2	252888.1	529666.3	3891.85						
	548.00	249384.4	180643.4	430027.8	3255.95						
	547.00	222800.5	121957.3	344757.8	2650.53						
	546.00	197381.1	77290.1	274671.2	2101.14						
	545.00	173926.7	52536.9	226463.6	1694.56						
	544.00	155889.5	35831.1	191720.6	1414.16						
	543.00	140881.3	24106.9	154988.2	1208.01						
	542.00	126599.9	15765.2	142365.2	1043.22						
	541.00	112093.7	9972.0	122065.7	902.75						
	540.00	99024.1	5958.7	104982.8	782.14						
	539.00	84714.7	3390.9	88105.6	678.48						
	538.00	71282.0	1629.0	72911.0	586.81						
	537.00	58762.1	605.9	59368.1	504.13						
	536.00	47197.5	123.8	47321.2	429.43						
	535.00	36784.8	6.1	36790.9	362.58						
	534.00	27758.0	.0	27758.0	301.04						
	533.00	19820.4	.0	19820.4	241.71						
	532.00	12968.8	.0	12968.8	184.17						
	531.00	7324.6	.0	7324.6	128.40						
	530.00	3055.5	.0	3055.5	74.50						
	529.00	567.5	.0	567.5	24.53						
	528.00	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.61	554.88						

SECTION 1980.	DISTANCE				STATION=						
	DOWNSTREAM		UPSTREAM		DRAINAGE	'W' VALUE BY SEGMENTS					
	CHANNEL	VALLEY	CHANNEL	VALLEY	AREA SQ MI	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
	5.	5.	437.	395.	1.00	.050	.045	.050	.045	.050	.040
	K0 VALUES					END AREA					
	ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.						
	556.00	636754.2	1018983.0	1655707.0	9630.45						
	555.00	582971.5	854571.5	1443543.0	8747.23						
	554.00	542670.4	709652.1	1252363.0	7881.50						
	553.00	497885.5	577227.2	1075113.0	7041.89						
	552.00	454111.4	453039.6	907151.1	6219.70						
	551.00	412941.7	350573.8	763515.5	5438.97						
	550.00	372780.0	258626.7	631466.7	4675.84						
	549.00	334130.4	182665.8	516796.2	3939.00						
	548.00	297913.3	124168.0	422081.3	3275.44						
	547.00	263209.1	78018.7	341227.8	2655.33						
	546.00	230182.1	44063.2	274245.3	2101.14						
	545.00	199829.0	25849.3	225778.4	1694.56						
	544.00	175594.7	15292.3	190886.9	1414.16						
	543.00	155318.2	8955.5	164284.7	1208.01						
	542.00	136684.4	5073.6	141758.0	1043.22						
	541.00	118635.4	2654.6	121349.9	902.75						
	540.00	103143.0	1401.6	104544.7	782.14						
	539.00	87073.1	743.8	87816.9	678.48						
	538.00	72446.3	325.6	72773.0	586.81						
	537.00	59206.8	110.4	59317.1	504.13						
	536.00	47294.5	17.4	47312.0	429.43						
	535.00	36790.5	.2	36790.7	362.58						
	534.00	27758.0	.0	27758.0	301.04						
	533.00	19820.4	.0	19820.4	241.71						
	532.00	12988.8	.0	12988.8	184.17						
	531.00	7324.6	.0	7324.6	128.40						
	530.00	3055.5	.0	3055.5	74.50						
	529.00	567.5	.0	567.5	24.53						
	528.00	.0	.0	.0	.00						

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.27	554.93						

SECTION 140.	DISTANCE		DRAINAGE		STATION=1283+70						
	DOWNSTREAM CHANNEL 437.	VALLEY 386.	UPSTREAM CHANNEL 402.	VALLEY 430.	AREA, SQ MI 1.00	NO. 1 .065	NO. 2 .040	NO. 3 .050	NO. 4	NO. 5	NO. 6
					KD VALUES		END AREA				
		ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.					
		565.00	1085691.0	1755675.0	2041366.0						16313.50
		564.00	1400039.0	1568785.0	2599124.0						15290.17
		563.00	976522.6	1394842.0	2371465.0						14255.50
		562.00	923333.6	1224922.0	2148255.0						13256.94
		561.00	871755.4	1071089.0	1942845.0						12272.79
		560.00	821050.6	930469.4	1751520.0						11310.03
		559.00	771655.8	809665.0	1581322.0						10379.34
		558.00	723601.1	700559.3	1424160.0						9495.84
		557.00	676439.6	599251.3	1275691.0						8643.79
		556.00	631004.6	500919.3	1139924.0						7842.18
		555.00	586417.4	423489.1	1009906.0						7054.12
		554.00	543494.2	346682.7	890176.9						6329.82
		553.00	501850.1	276226.1	778076.1						5620.21
		552.00	461058.7	210002.4	671061.1						4927.07
		551.00	422456.4	156326.2	578782.6						4271.64
		550.00	384598.0	107446.0	492144.0						3630.18
		549.00	348205.3	65759.0	413964.3						3009.66
		548.00	313738.7	36475.3	350214.0						2421.78
		547.00	280524.7	17089.9	297594.6						1909.28
		546.00	248622.8	6110.9	254733.7						1494.52
		545.00	218629.1	2591.7	221220.7						1269.76
		544.00	191264.5	965.9	192230.3						1120.20
		543.00	165324.5	138.3	165462.9						996.58
		542.00	145827.0	0.0	145835.0						895.20
		541.00	127560.0	0.0	127560.0						806.76
		540.00	110771.5	0.0	110771.5						724.00
		539.00	94192.3	0.0	94192.3						645.55
		538.00	78950.2	0.0	78950.2						570.20
		537.00	65026.1	0.0	65026.1						497.95
		536.00	52404.0	0.0	52404.0						428.80
		535.00	41148.9	0.0	41148.9						362.94
		534.00	31126.5	0.0	31126.5						300.05
		533.00	22340.0	0.0	22340.0						240.14
		532.00	14857.3	0.0	14857.3						183.32
		531.00	8687.4	0.0	8687.4						129.55
		530.00	3995.7	0.0	3995.7						79.00
		529.00	1209.5	0.0	1209.5						34.94
		528.00	0.0	0.0	0.0						0.00

CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.	CFS	VELOCITY	FLEV.
37100.00	5.14	555.21						

SECTION 1400 DISTANCE DOWNSTREAM UPSTREAM DRAINAGE AREA SQ MI STATION= W. VALUE BY SEGWENTS NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 NO. 6

SECTION	1400	DOWNSTREAM	UPSTREAM	DRAINAGE	STATION=
CHANNEL	402	VALLEY	CHANNEL	AREA SQ MI	NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 NO. 6
VALLEY	436			1.00	0.00 0.05 0.40 0.00
ELEVATION	CHANNEL	VALLEY	CHANNEL	NO VALUES	END AREA
550.00	782301.3	926890.5	782301.3	782301.3	50 FT
551.00	786433.0	814550.6	786433.0	814550.6	8745.00
552.00	691053.8	706906.5	691053.8	706906.5	8152.73
553.00	647261.5	608959.4	647261.5	608959.4	7561.36
554.00	604209.2	516913.4	604209.2	516913.4	6978.61
555.00	562703.1	433442.8	562703.1	433442.8	6402.78
556.00	522336.4	355824.2	522336.4	355824.2	5846.07
557.00	482739.4	282107.1	482739.4	282107.1	5297.84
558.00	445120.8	219699.5	445120.8	219699.5	4755.27
559.00	408262.9	161771.3	408262.9	161771.3	4225.71
560.00	372546.0	110561.7	372546.0	110561.7	3701.03
561.00	338651.3	70718.7	338651.3	70718.7	3183.67
562.00	305800.2	38671.2	305800.2	38671.2	2677.83
563.00	274395.3	15245.5	274395.3	15245.5	2179.00
564.00	245058.8	5521.4	245058.8	5521.4	1719.10
565.00	220593.6	776.1	220593.6	776.1	1396.27
566.00	195782.7	444.3	195782.7	444.3	1170.00
567.00	171949.2	257.0	171949.2	257.0	1066.97
568.00	149308.8	100.9	149308.8	100.9	973.60
569.00	127669.9	16.9	127669.9	16.9	884.81
570.00	107919.2	0.0	107919.2	0.0	798.90
571.00	90501.3	0.0	90501.3	0.0	716.00
572.00	74506.6	0.0	74506.6	0.0	636.00
573.00	59811.9	0.0	59811.9	0.0	558.00
574.00	46508.4	0.0	46508.4	0.0	482.00
575.00	34748.8	0.0	34748.8	0.0	408.12
576.00	24846.9	0.0	24846.9	0.0	336.27
577.00	16633.9	0.0	16633.9	0.0	267.69
578.00	9935.5	0.0	9935.5	0.0	203.79
579.00	4832.5	0.0	4832.5	0.0	144.60
580.00	1438.8	0.0	1438.8	0.0	90.40
581.00	0.0	0.0	0.0	0.0	41.77

APPENDIX 3

BOUNDARY DESCRIPTION OF FLOODWAY EASEMENT

FLOODWAY EASEMENT

WHEREAS, Charles Ray Allen and wife Georgia Ann Allen are the owners of a tract of land situated in the A. Bledsoe Survey, Abstract No. 157, City of Addison, Dallas County, Texas and being more particularly described as follows;

COMMENCING, at the intersection of the North line of Celestial Road, and the East line of Winnwood Road, an iron stake for a corner;

THENCE, North 00° 00' 00" E, along the East line of Winnwood Road, a distance of 418.00 feet to the POINT OF BEGINNING;

THENCE, North 00° 00' 00" E, along the East line of Winnwood Road a distance of 200.00 feet to an iron rod found for corner;

THENCE, S 89° 46' 00" E, with general line of wire fence part of way, a distance of 155.00 feet to a point for a corner;

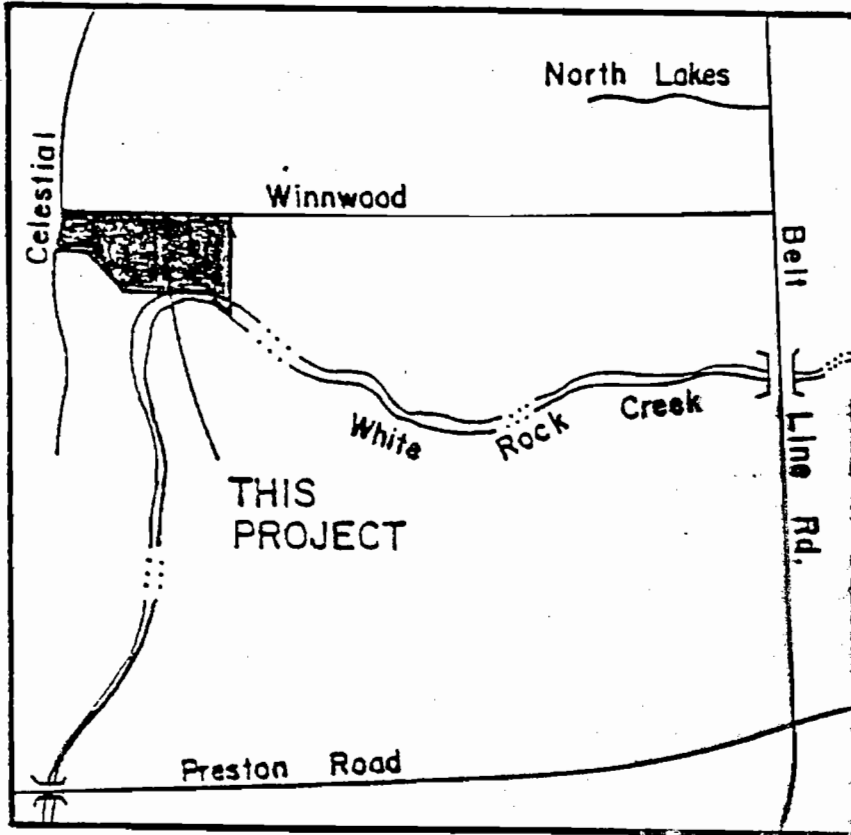
THENCE, South 00° 00' 00" W, and leaving the above said point a distance of 200.00 feet to a point for a corner;

THENCE, N 89° 46' 00" W, a distance of 155.00 feet to the POINT OF BEGINNING and CONTAINING 30,999.743 Square Feet or 0.71166 Acres of Land, more or less.

EXHIBITS

EXHIBIT A

VICINITY MAP



Location Map
n.t.s.

EXHIBIT B

100-YEAR INUNDATION LIMITS

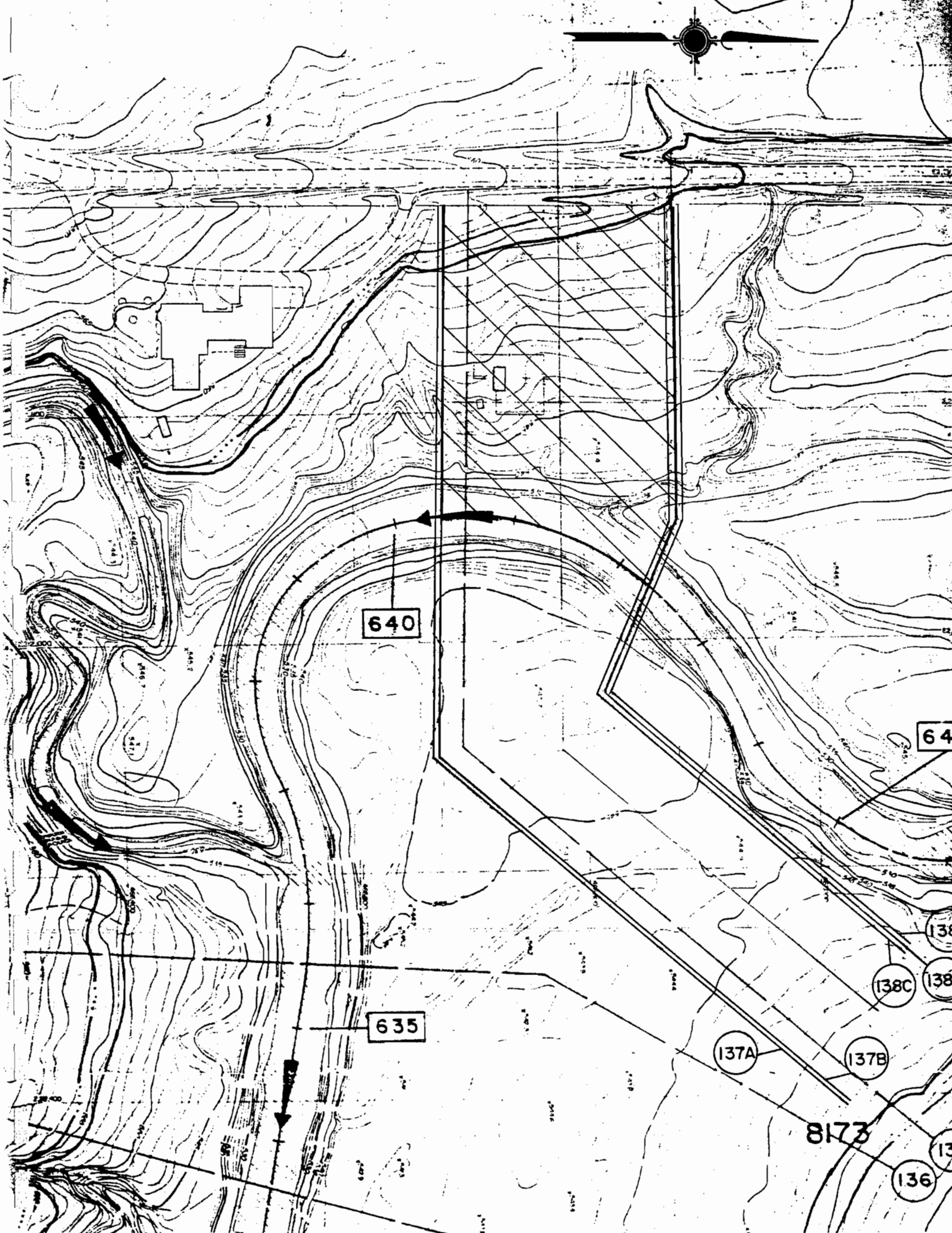
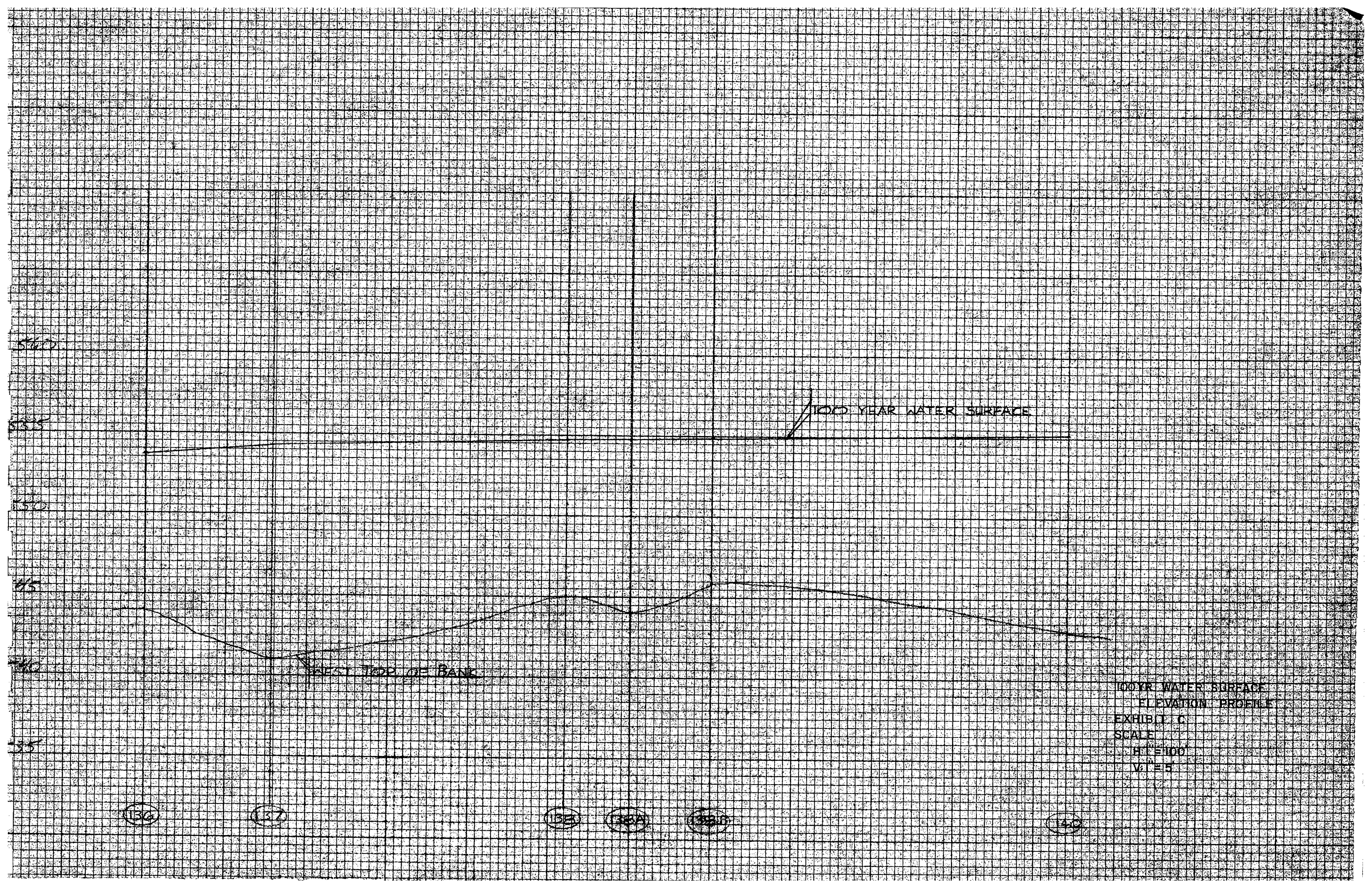


EXHIBIT C
WATER SURFACE PROFILE



100 YEAR WATER SURFACE

WEST TOP OF BANK

100 YR WATER SURFACE
ELEVATION PROFILE
EXHIBIT C
SCALE
H = 100'
V = 5'

136

137

138

139

140

141

EXHIBIT D
CROSS-SECTIONS

560

X-SECTION 137A

555

PRO. WATER SURFACE 554.71

EXISTING WATER SURFACE 554.71

550

545

540

535

530

525

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

560

X-SECTION 137B

555

PRO. WATER SURFACE 554.71

EXISTING WATER SURFACE 554.72

550

545

540

535

530

525

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

REVISIONS

CROSS-SECTIONS					
Winwood Road @ Delisted Road					
JERRY KING					
BOYD COLLINS INC.					
Consulting Engineers					
City of Addison, Texas					
DESIGN	DRAWN	APP.	SCALE	DATE	PROJECT NO.
EL	ELR	AN	1" = 10'	SEPT/05	0883-04

560

X-SECTION 1386

555

PRO. WATER SURFACE 557.89

EXISTING WATER SURFACE 557.93

550

545

540

535

530

525

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

X-SECTION 1388

555

PRO. WATER SURFACE 557.65

EXISTING WATER SURFACE 557.93

550

545

540

535

530

525

0+00

1+00

2+00

3+00

4+00

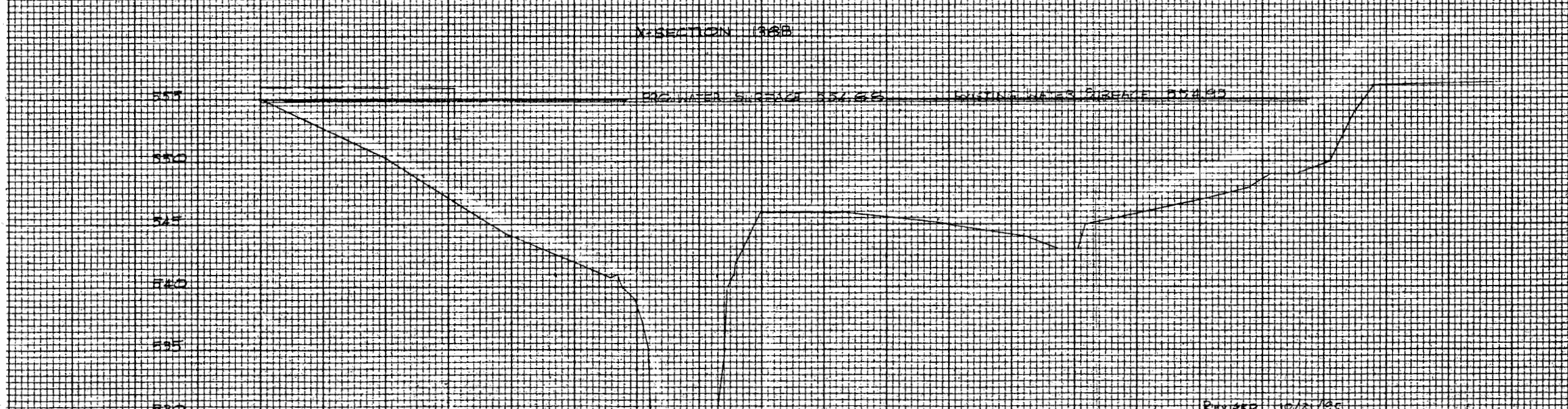
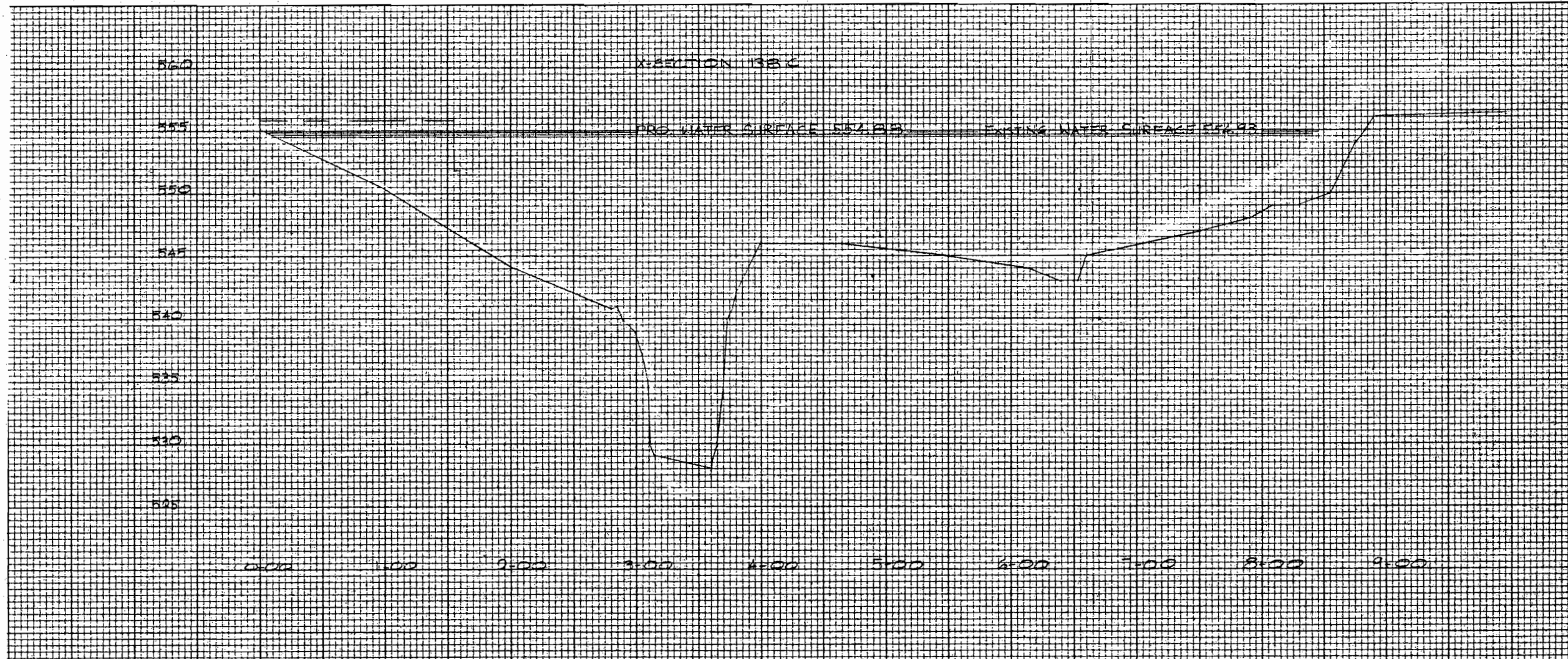
5+00

6+00

7+00

Revised 10/2/85

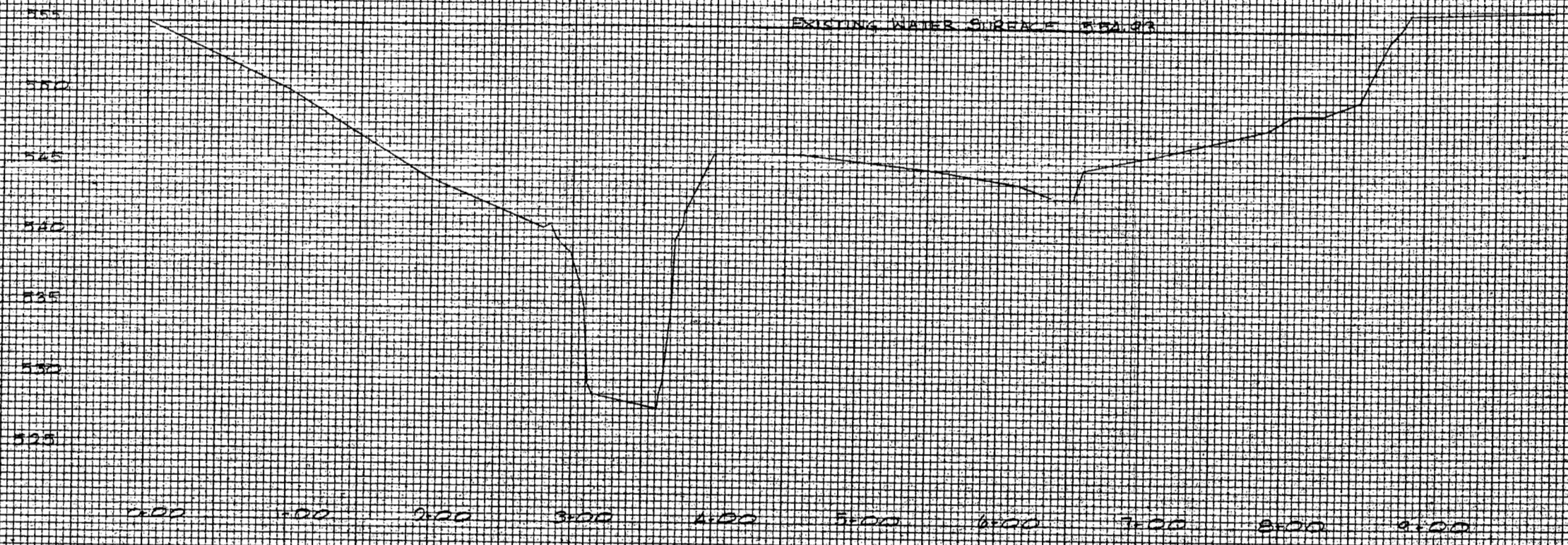
CROSS-SECTIONS					
Winnwood Road & Celestial Road					
JERRY KING					
LITTLE JOLARS INC.					
Engineers					
City of Addison, Texas					
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.
EL	LM	AL	1" = 50'	SERVICES	1386-1388



Revised 10/21/85

CROSS-SECTIONS					
Winnwood Road & Celestial Road					
JERRY KING					
KEITH ZOLLARSING Consulting Engineer					
City of Addison, Texas					
DESIGN	DRAWN	APPR	SCALE	DATE	PROJECT NO.
JL	JL	JL	1" = 50'	SEP 1985	138B-102

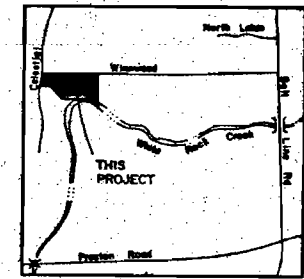
X-SECTION 1800



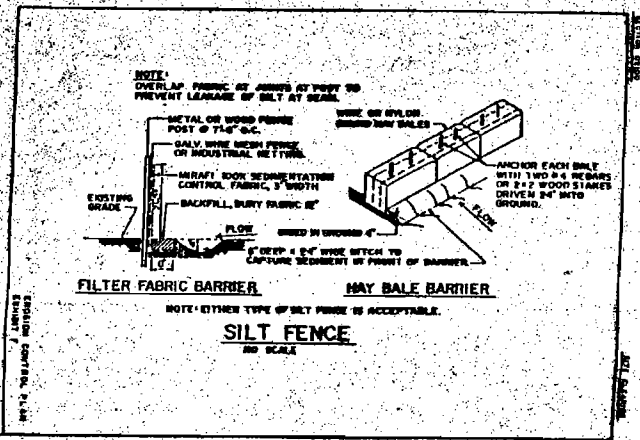
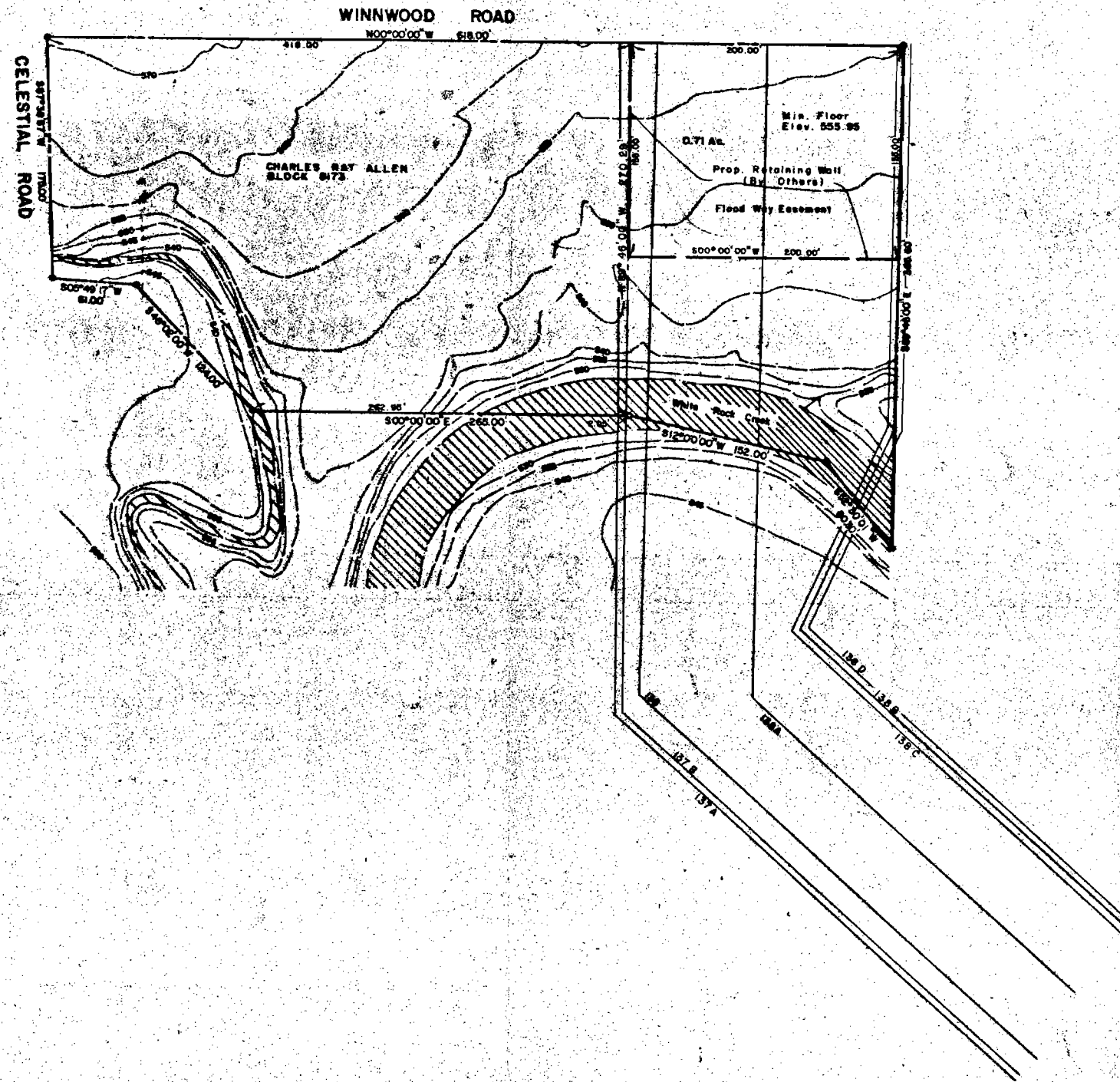
Revised 10/2/88

GROSS SECTIONS					
Winwood Road @ Celestial Road					
JERRY KING					
HUNTZGALLER INC. Consulting Engineers					
City Of Addison, Texas					
DATE	DRAWN	APP'D	SCALE	DATE	PROJECT NO.
10/2/88	J.N.	JK	H. 1/8" = 1'-0"	10/2/88	110026002
			V1 = 5		

EXHIBIT E
RECLAMATION PLAN



Location Map
n.t.s.

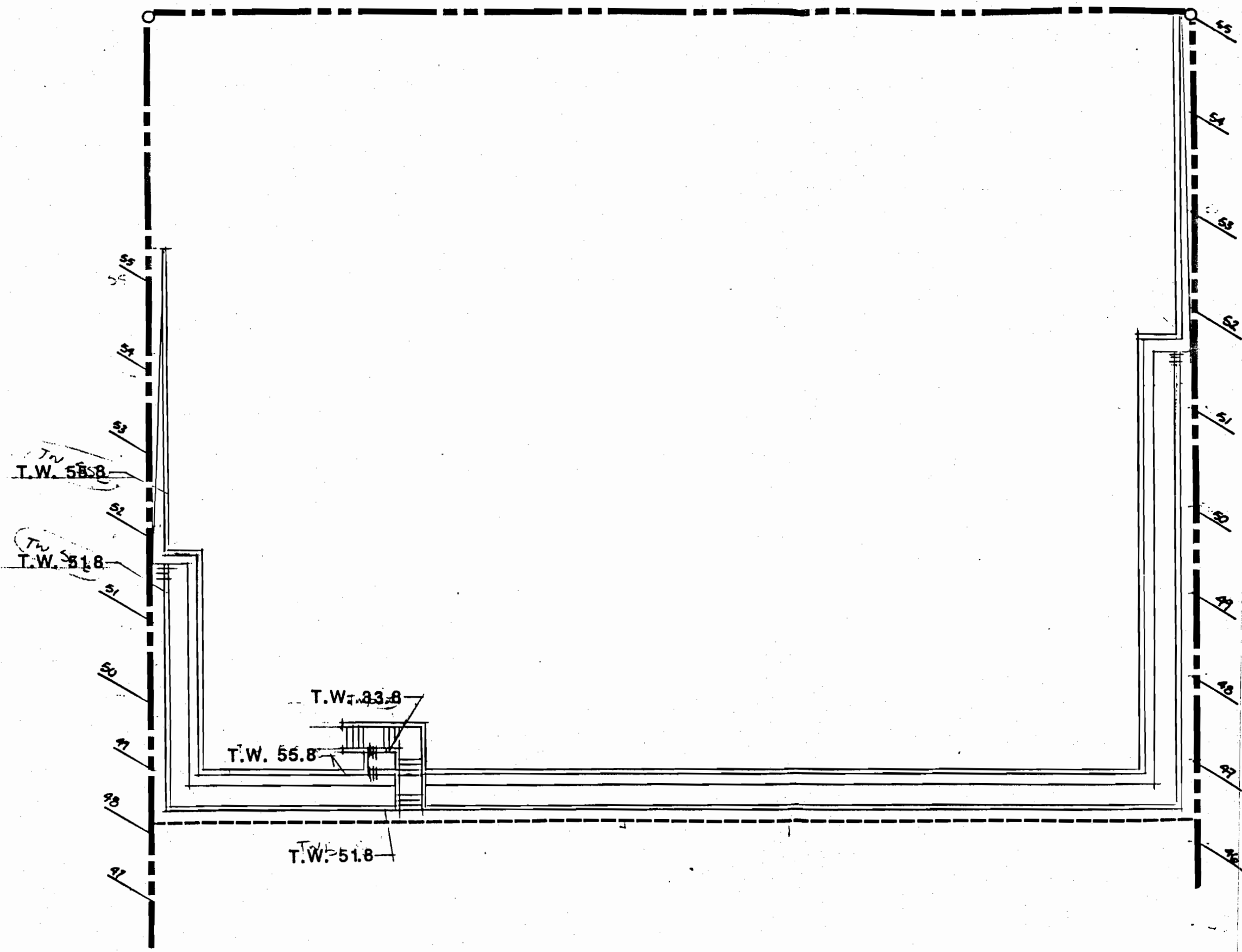


Revised 10/21/85

PROPOSED RECLAMATION PLAN					
Winnwood Road & Celestial Road					
JERRY KING HUTT-ZOLLARS INC. Consulting Engineers					
City Of Addison, Texas					
DESIGN	DRAWN	APPR	SCALE	DATE	PROJECT NO.
C.L.	L.R.	A.U.	1"=50'	SEPT 1985	1-046-03

EXHIBIT F
RETAINING WALL TYPICAL SECTION

WINWOOD RD.



NOTE: SCREEN FENCE TO BE
INSTALLED BEHIND RET.
WALL
WALLS = 3,901 SQ. FT.

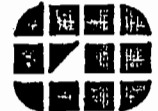


ENVIRO DESIGN
LANDSCAPE ARCHITECTS
7424 Greenville Ave. • Suite 200
Dallas, TX 75231

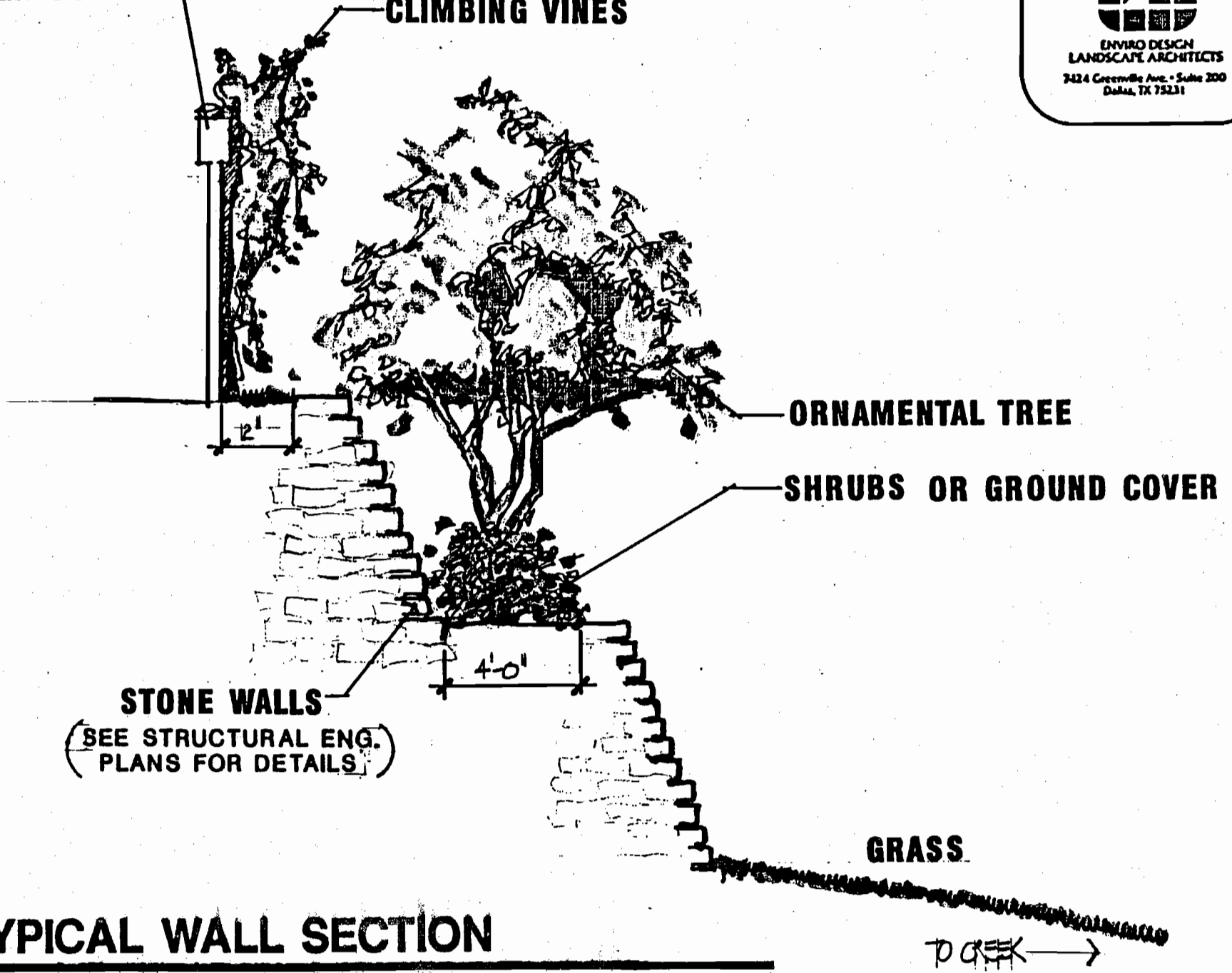
SCALE: 1" = 20'-0"

6 FT. HIGH SCREEN

CLIMBING VINES



**ENVIRO DESIGN
LANDSCAPE ARCHITECTS**
3424 Greenville Ave. • Suite 200
Dallas, TX 75231



ORNAMENTAL TREE

SHRUBS OR GROUND COVER

STONE WALLS

**(SEE STRUCTURAL ENG.
PLANS FOR DETAILS)**

GRASS

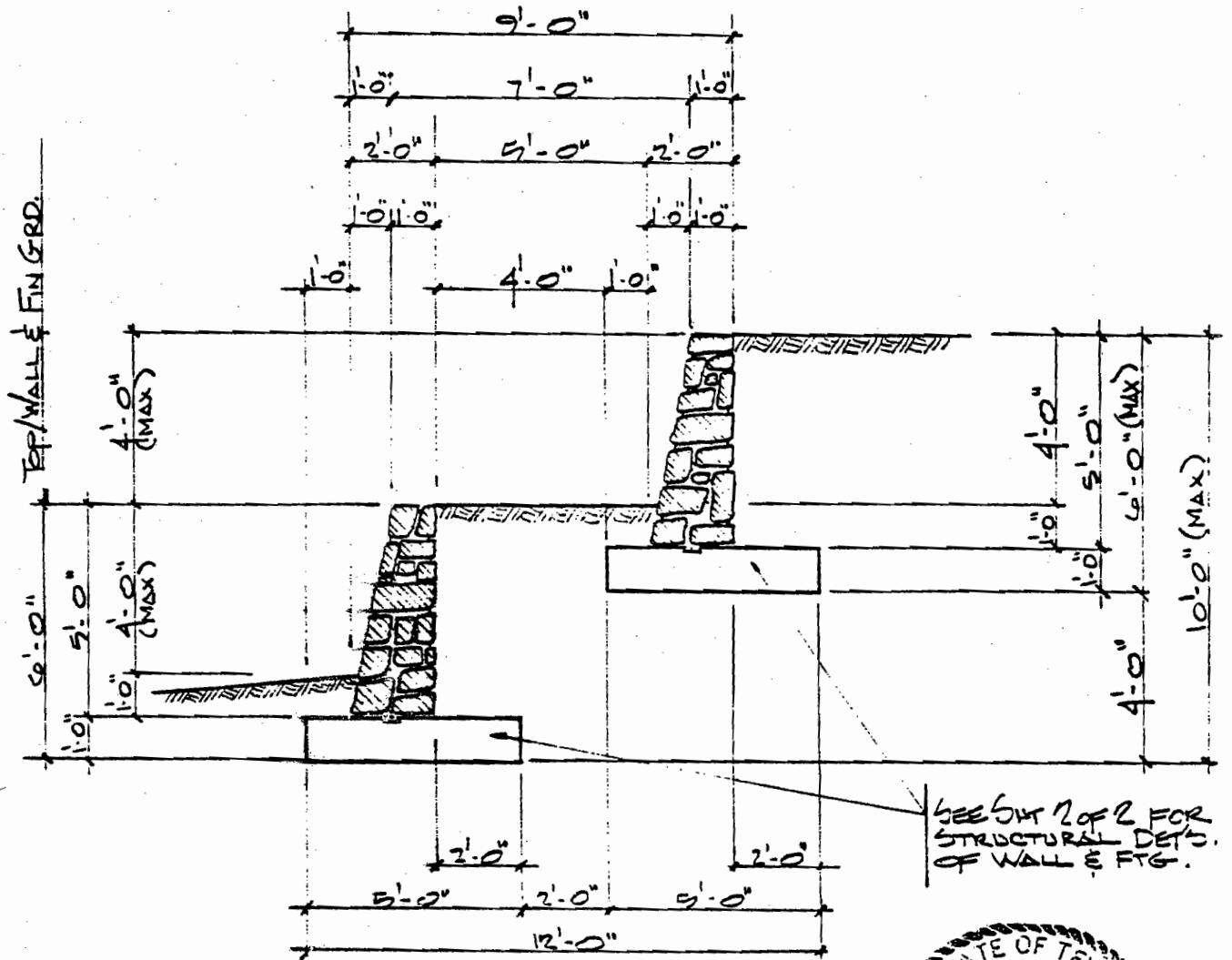
TO CREEK →

TYPICAL WALL SECTION

DATE: 9-0-05

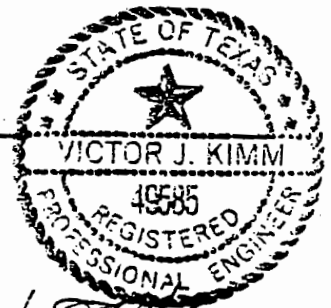
NO SCALE

1. RETAINING WALL ARE DESIGNED THE WEIGHT OF EARTH AT 120 #/CU. FT.
2. CONTRACTOR SHALL PROVIDED VERT. EXP. JOINTS @ 30'-0" OC. USING 12" NON-EXTRUDED FILLER. STAGGER EXP. JTS BETWEEN UPPER & LOWER WALLS.



TYP. SECT. @ RETAINING WALL

4'-1'-0"



Victor J. Kimm 9/19/85

HUITT-ZOLLARS

Dallas/Houston/Fort Worth/Collin County/Phoenix

Huitt-Zollars, Inc./Consulting Engineers
3131 McKinney Avenue/Suite 600
Dallas, Texas 75204/214-971-1311

RETAINING WALL DETAILS

JOB NO: 0582-02 DATE: 18 SEPT 85

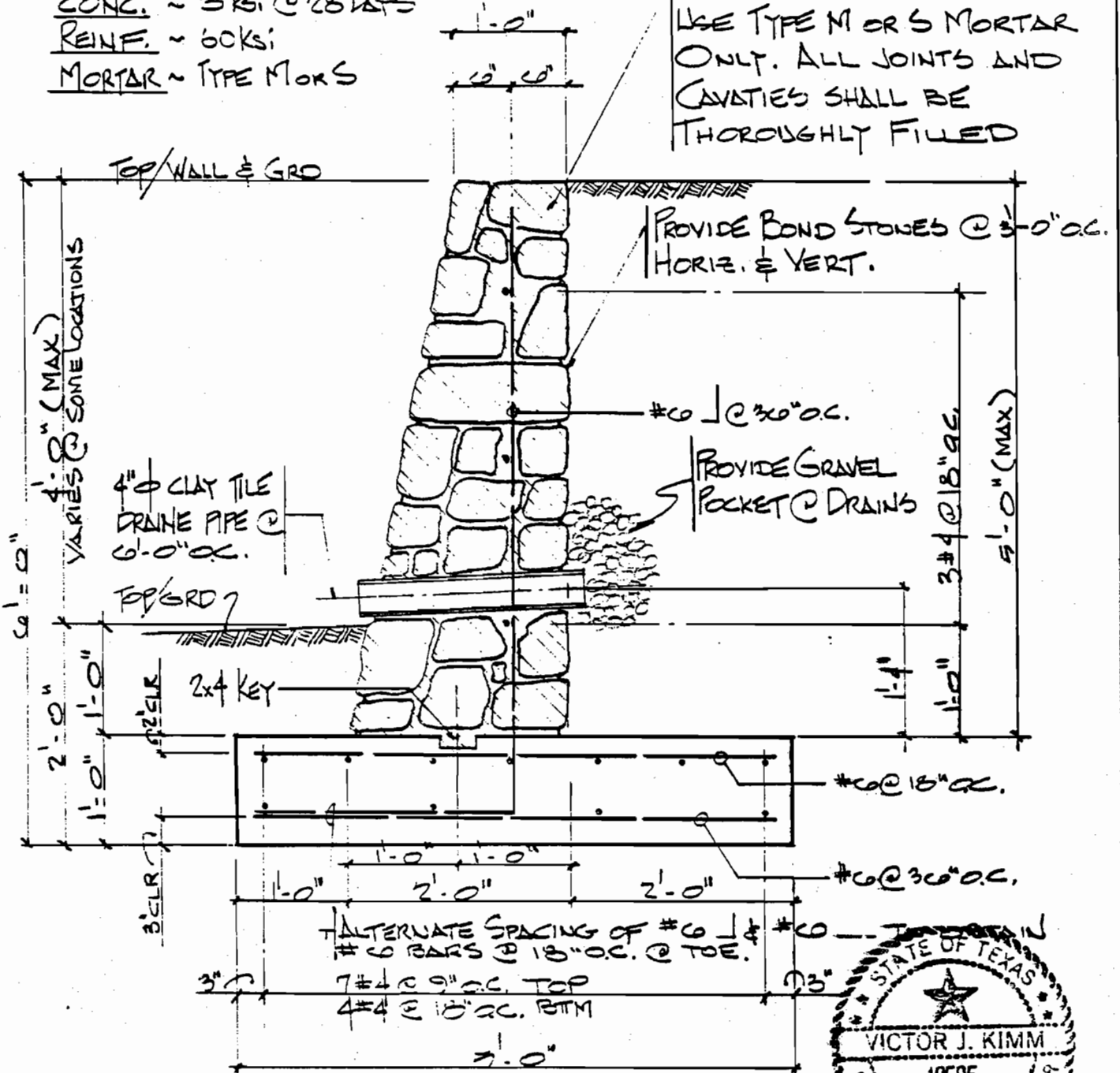
1 OF 2

DWN: WK
CHK: VK

MATERIAL SPECS:

- CONC. ~ 3ksi @ 28 DAYS
- REINF. ~ 60ksi
- MORTAR ~ TYPE M OR S

RUBBLE STONE CONSTRUCTION
USE TYPE M OR S MORTAR
ONLY. ALL JOINTS AND
CAVITIES SHALL BE
THOROUGHLY FILLED



TYPICAL SECT. W/ REINF. ~ A-A



9/19/85

HUITT-ZOLLARS

Dallas/Houston/Fort Worth/Collin County/Phoenix

Huitt-Zollars, Inc., Consulting Engineers
3131 McKinney Avenue/Suite 500
Dallas, Texas 75204/214-371-3311

RETAINING WALL DETAILS

JOB NO: 02R2-02 DATE: 18 SEPT 85

2
2 OF 2

DWN
WK VK

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