

Mastec - Master Utility Plans - Development

EXHIBIT F

EROSION CONTROL PLAN

HUITT-ZOLLARS

Huitt-Zollars, Inc. / Consulting Engineers / 3131 McKinney Avenue / Suite 600 / LB 105 / Dallas, Texas 75204-2416 / 214-871-3311 / FAX 214-871-0757

Invoice
Due upon receipt

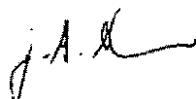
PROJECT: 0582-06 1.32 ACRE TRACT/ADDISON, TEXAS INVOICE # 11062
SURVEY STAKING NOVEMBER 30, 1989

PERIOD: OCT. 22 THRU NOV. 18, 1989

TO: MR. JERRY KING
C/O ASSOCIATED AIR CENTER, INC
8321 LEMMON AVE.
DALLAS TX 75209

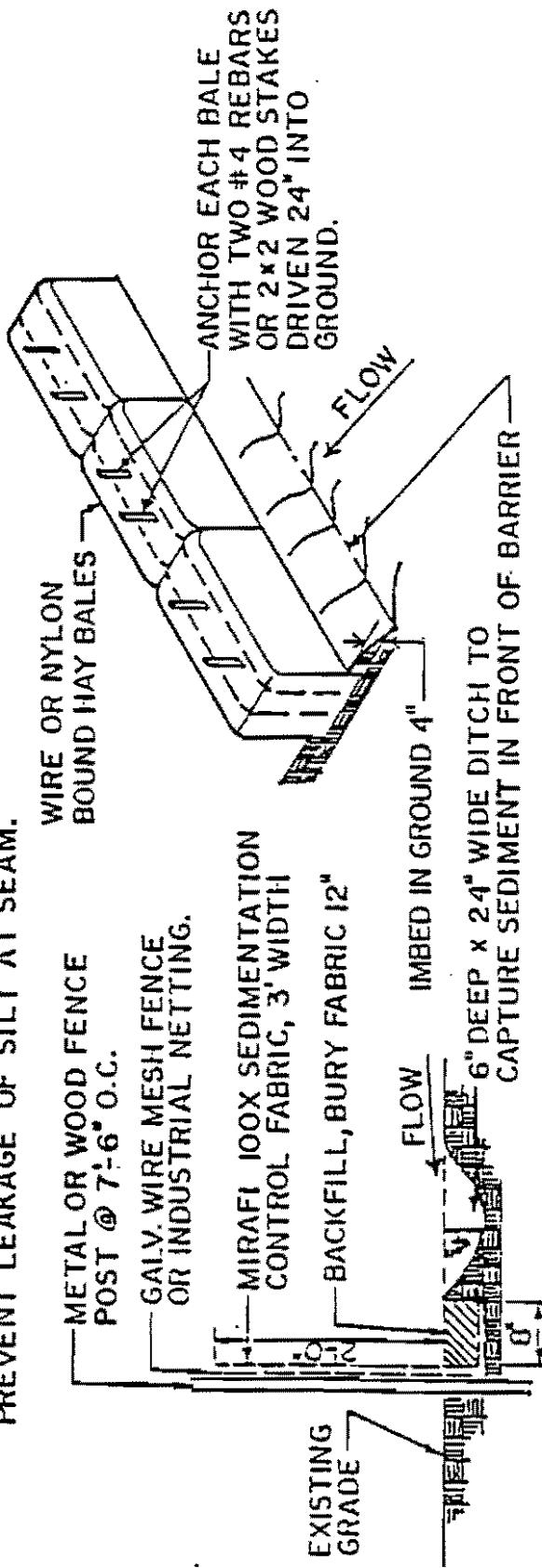
LABOR CHARGES	HOURS	RATE	AMOUNT
OFFICER	3.00	90.00	270.00
ENGINEER II	8.00	70.00	560.00
SURVEY PARTY CHIEF	6.00	85.00	510.00
TOTAL LABOR CHARGES	17.00		1,340.00
TOTAL THIS INVOICE			1,340.00

APPROVED BY



NOTE: THIS INVOICE COVERS SURVEY STAKING FOR FILLING AND PREPARING INFORMATION FOR COUNCIL, GEOTECHNICAL ENGINEER, ETC.

NOTE:
OVERLAP FABRIC AT JOINTS AT POST TO
PREVENT LEAKAGE OF SILT AT SEAM.

FILTER FABRIC BARRIERHAY BALE BARRIER

NOTE: EITHER TYPE OF SILT FENCE IS ACCEPTABLE.

SILT FENCE
NO SCALE

BEING a tract of land out of the A. Bledsoe Survey, Abstract No. 157 and being part of a tract conveyed to Joe M. Combs and Dorothy E. Combs by Charles Ray Allen and Georgis Ann Allen recorded in Volume 68033, Page 1015, Deed Record of Dallas County, Texas, said tract now lying within the Corporation Limits of the Town of Addison, being more particularly described as follows:

BEGINNING at a set iron rod at the Northwest corner of the above described tract said point being in the East line of Winnwood Road (60 foot Right of Way) as deeded to Dallas County as recorded in Volume 1826, Page 48, Deed Records of Dallas County and near an old post found;

THENCE North 89 degrees 21 minutes 49 seconds East with the general line of said crooked wire fence a distance of 856.02 feet to a point in the center of White Rock Creek;

THENCE South 52 degrees 30 minutes 00 seconds West along the centerline of said creek a distance of 80.30 feet to an angle point in the creek;

THENCE South 12 degrees 00 minutes 00 seconds West continuing along said centerline of creek a distance of 152.00 feet to an angle point in said creek;

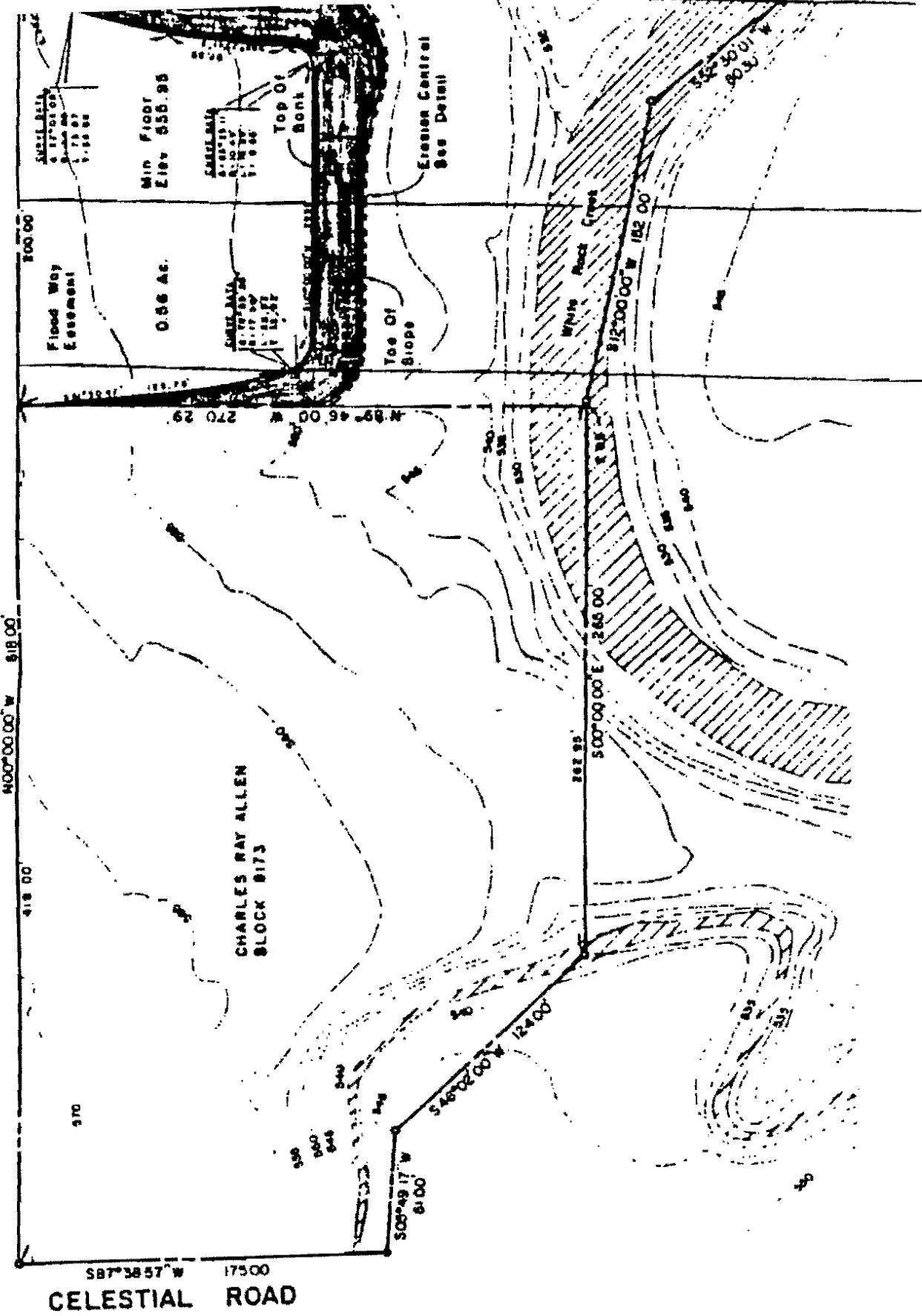
THENCE South 00 degrees 00 minutes 00 seconds East departing said centerline of creek a distance of 3.50 feet to a point for a corner in the creek;

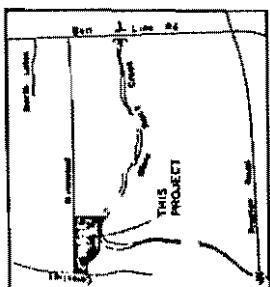
THENCE South 39 degrees 21 minutes 49 seconds West a distance of 260.70 feet to a set iron rod in the East line of said Winnwood Road as referenced above;

THENCE North 00 degrees 00 minutes 00 seconds West along said East line of Winnwood Road a distance of 200.00 feet to the Point of Beginning and containing 57.536 square feet or 1.321 Acres of Land, more or less.

Book 1512

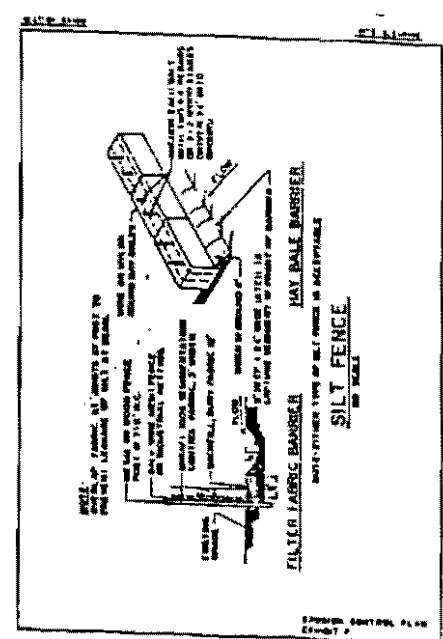
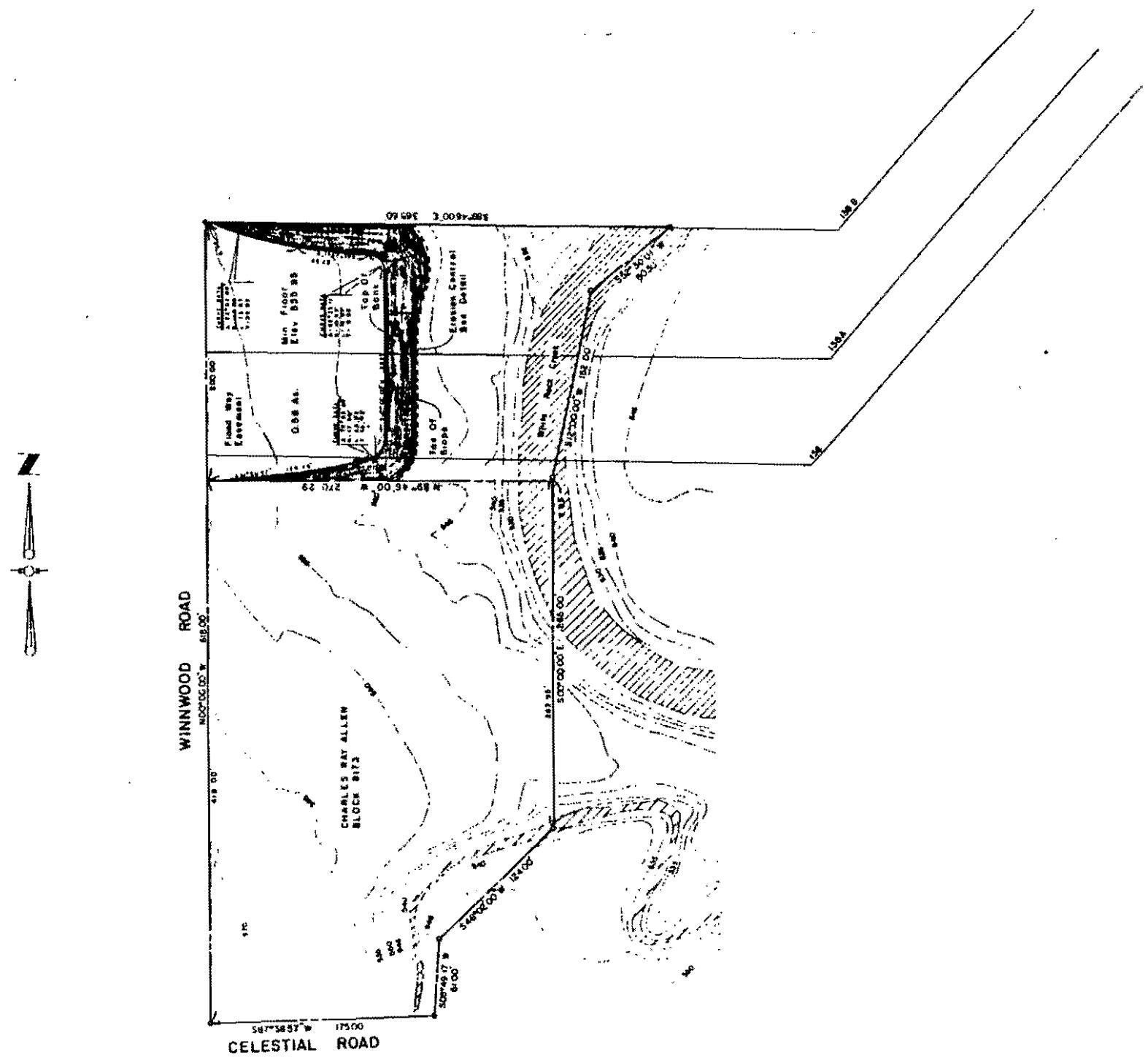
WINNWOOD ROAD





Location Map
n.s.

PROPOSED RECLAMATION PLAN					
Winnwood Road & Celestial Road					
JERRY KING					
HUTT-ZOLLARS INC.					
Consulting Engineers					
City of Addison, Texas					
Section	Distance	Date	Scale	Project	Ref.
C.L.	1 mi	4/86	1:500	SPP1386	1387-32



WINNWOOD ROAD AT CELESTIAL ROAD
FLOOD STUDY
ALTERNATIVE B

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

September 9, 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:

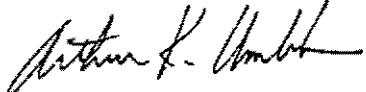
The following report is a copy of the hydraulic analysis performed on White Rock Creek within the vicinity of the above referenced property. This submittal includes a written narrative, copy of the PC-WSP Computer Calculations, and drawings of the site and cross sections of the study area.

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

September 9, 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

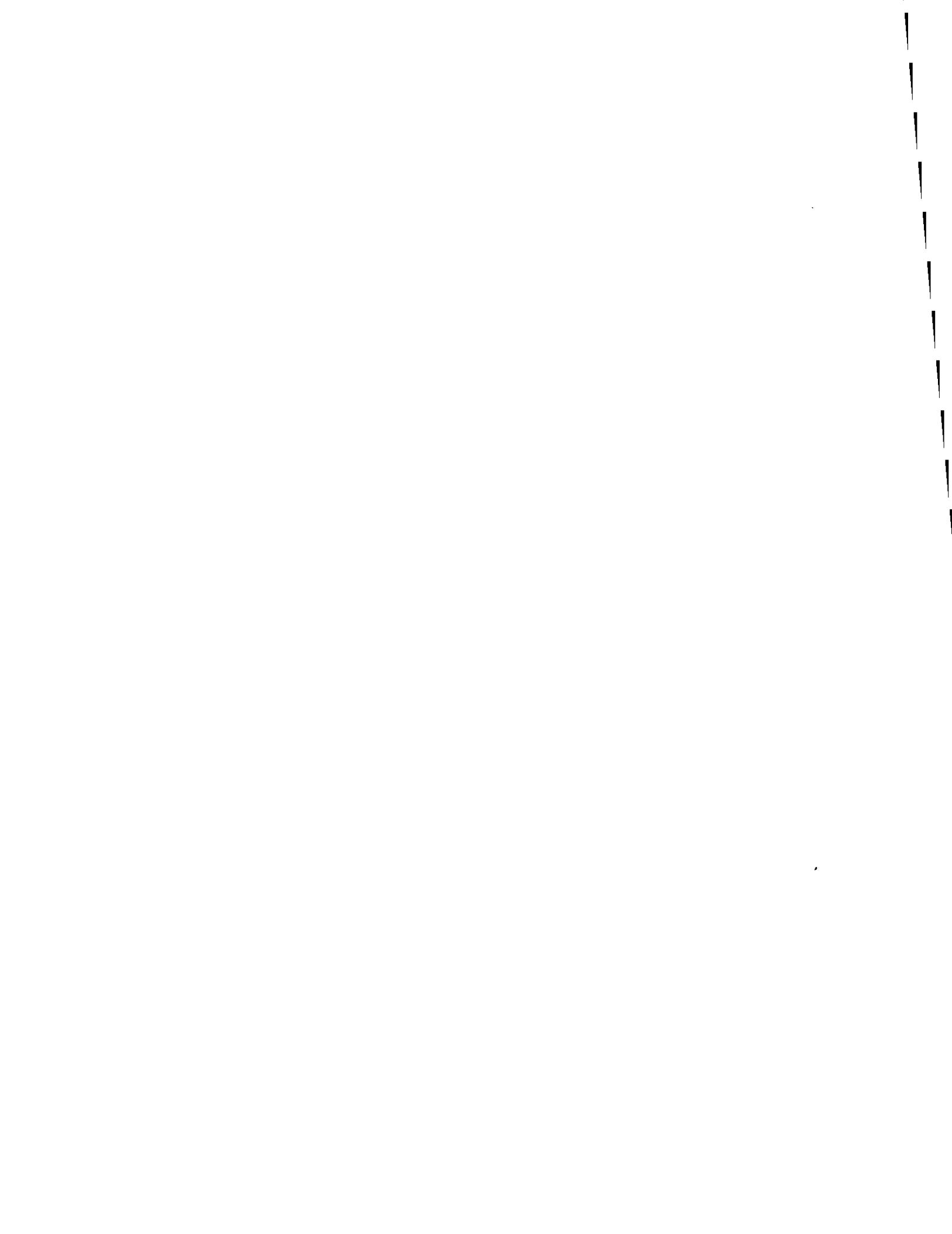


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APPENDIX 3: Equal Reduction of Conveyance Analysis
APPENDIX 4: Boundary Description in Floodway Easement

LIST OF EXHIBITS

EXHIBIT A: Vicinity Map
EXHIBIT B: 100-Year Inundation Limits
EXHIBIT C: Water Surface Profile
EXHIBIT D: Cross-Sections
EXHIBIT E: Reclamation Plan
EXHIBIT F: Erosion Control Plan

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 conventional fill.

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 of the proposed fill are included in Appendix 2. The proposed fill has been designed to comply with the "10 point" criteria specified by the City of Dallas Department of Stormwater Management. The equal reduction in conveyance analysis is included in Appendix 3.

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 fill is to be sloped as shown on Exhibit E, with at least fifty percent of the fill having a slope not to exceed 3:1 and the remaining length of the fill to have a slope not exceeding 6:1 as required by the City of Dallas Department of Stormwater Management. To conform with the computer model for the proposed conditions, the slope of the fill and 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.

To prevent erosion of the fill in place during intermittent construction phases, erosion control is to be implemented as shown on Exhibit F. A temporary drainage ditch is to be constructed at the toe of the slope. A row of hay bales are to be placed on the downstream bank of the dith. Each bale is to be secured with 2 - 4 x 4 posts driven 24 inches into the ground.

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
138	554.74	554.72
138A	554.82	554.78
138B	554.95	554.95
140	555.19	555.19
140A	555.56	555.56
140B	555.78	555.78
140C	556.02	556.02
140D	556.26	556.26
141	556.26	556.26
142	556.59	556.59

APPENDICES

APPENDIX 1
EXISTING CONDITIONS ANALYSIS

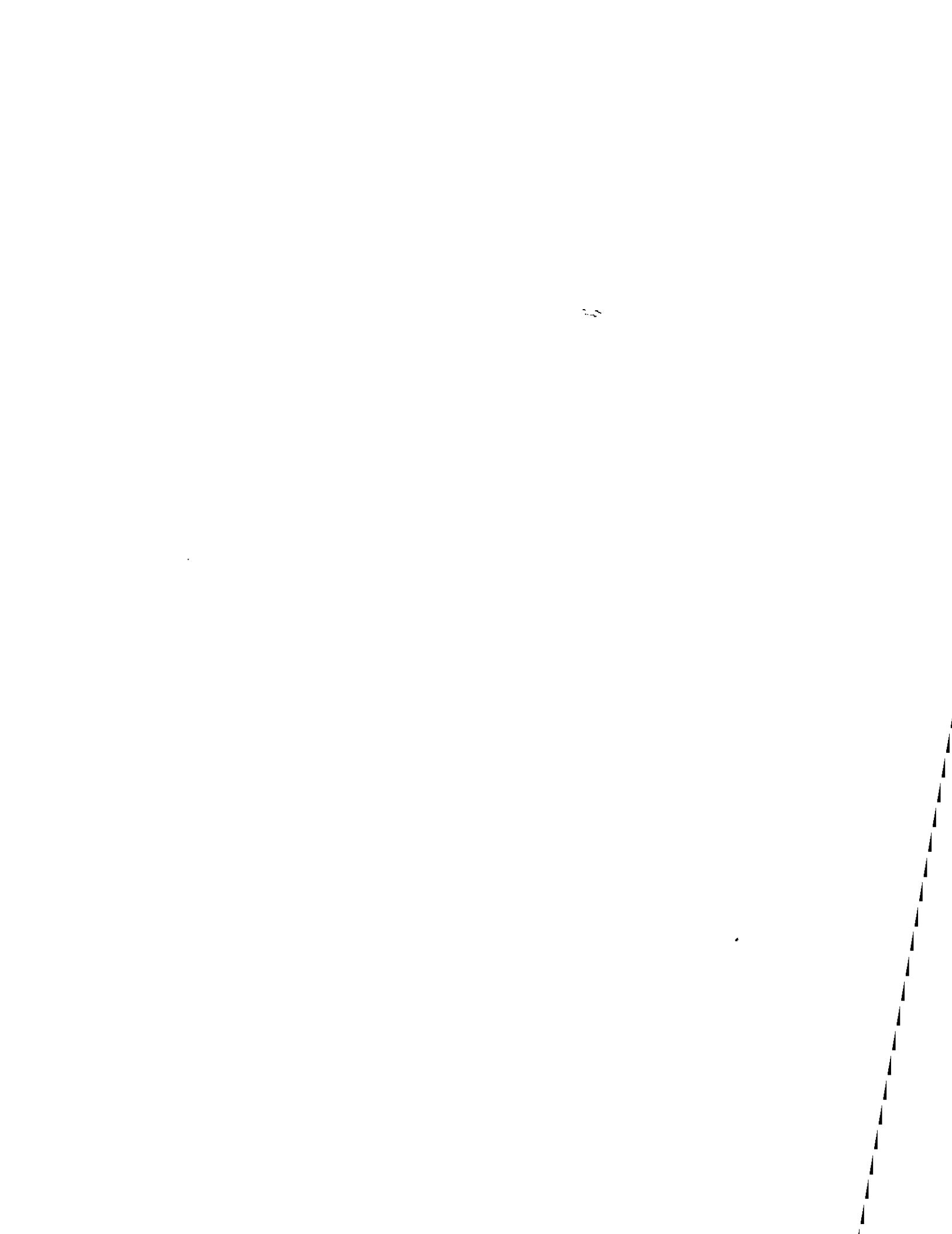
FILE # 36788. WHITE ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.

EXISTING

SECTION	136.	153.	185.	1.	1.	
GENERAL	544.					
CEMENT	1.	0	0.12	199.	545.	
CEMENT	2.	0	0.06	295.	544.	
CEMENT	3.	0	0.09	645.	560.	
ATA	9.	569.	148.	558.	199.	543.
ATA	159.	545.	263.	549.	267.	535.
ATA	221.	524.5	261.	524.5	268.	536.
ATA	287.	540.	295.	544.	295.	544.
ATA	375.	544.	365.	542.	468.	542.
ATA	412.	543.	580.	545.	620.	550.
ATA	845.	569.	845.	568.		
NOTABLE						
NEW	37160.				-1.	
SECTION	137.	363.	364.	1.	1.	
GENERAL	541.					
CEMENT	1.	0	0.12	135.	544.	
CEMENT	2.	0	0.06	395.	541.	
CEMENT	3.	0	0.09	619.	543.	
CEMENT	4.	0	0.04	360.	560.	
ATA	9.	566.	9.	555.	23.	533.
ATA	26.	531.	37.	531.	60.	540.
ATA	63.	544.	163.	545.	127.	545.
ATA	155.	544.	218.	549.	228.	526.5
ATA	269.	525.5				
ATA	270.	535.	285.	540.	395.	541.
ATA	365.	541.	335.	541.	385.	545.
ATA	420.	546.8	440.	546.8	465.	546.
ATA	610.	543.5	610.	543.5	710.	545.
ATA	817.	550.	380.	560.	360.	560.
NOTABLE						
SECTION	138.	86.	110.	1.	1.	
GENERAL	545.					
CEMENT	1.	0	0.05	228.	544.	
CEMENT	2.	0	0.045	347.	545.	
CEMENT	3.	0	0.09	675.	543.	
CEMENT	4.	0	0.04	1650.	560.	
ATA	9.	560.	25.	558.	70.	555.
ATA	269.	547.	228.	544.	228.	544.
ATA	230.	541.	240.	541.	244.	540.
ATA	268.	526.5	295.	526.5	310.	536.
ATA	320.	549.	335.	544.	347.	545.
ATA	347.	545.	485.	545.8	585.	546.8
ATA	530.	545.	670.	543.	675.	543.
ATA	775.	545.	885.	558.	1650.	560.
NOTABLE						
SECTION	138A.	100.	160.	1.	1.	
GENERAL	543.8					
CEMENT	1.	0	0.05	237.	544.3	
CEMENT	2.	0	0.045	339.	543.8	
CEMENT	3.	0	0.09	450.	546.8	
CEMENT	4.	0	0.04	691.1	555.98	
ATA	9.	557.5	100.	550.5	260.	544.5
ATA	267.	544.5	257.	526.4	274.	525.3
ATA	292.	526.5	350.	543.5	340.	544.1
ATA	357.	547.5	450.	545.5	491.	545.7
ATA	680.	545.1	760.	541.5	860.	546.7
ATA	851.	533.5	851.1	535.5		
NOTABLE						
SECTION	138B.	441.	73365.	1.	1.	

WSP JK. EXS

SECTION	1.		9.660	493.	543.	
GENERAL	2.		0.065	390.	540.	
GENERAL	3.		0.045	495.	545.	
GENERAL	4.		0.06	495.	545.	
GENERAL	5.		0.04	895.	555.	
STA	6.		653.	100.	550.	200.
STA	7.		581.	247.	534.	263.
STA	8.		546.	369.	540.	324.
STA	9.		523.	496.	526.	495.
STA	10.		495.	585.	544.	585.
STA	11.		466.	531.	535.	535.
STA	12.		435.	553.	535.	535.
SECTION	140.		492.	499.	1.	1286-79
GENERAL	545.			1.	1.	
GENERAL	1.		0.065	575.	545.	
GENERAL	2.		0.049	670.	543.	
GENERAL	3.		0.060	920.	565.	
STA	4.		-120.	565.		
STA	5.		-120.	569.	0.	
STA	6.		255.	545.		
STA	7.		300.	546.	360.	
STA	8.		430.	547.	545.	
STA	9.		534.	539.	610.	
STA	10.		653.	548.	670.	
STA	11.		720.	550.	740.	
STA	12.		839.	562.	926.	
SECTION	140A.		170.	167.	1.	
GENERAL	545.			1.	1.	
GENERAL	1.		0.	0.94	547.	
GENERAL	2.		0.	0.065	569.	
GENERAL	3.		0.	0.04	648.	
GENERAL	4.		0.	0.060	752.	
STA	5.		9.	560.	155.	
STA	6.				283.	
STA	7.		557.	547.	545.	
STA	8.		563.	545.	442.	
STA	9.		563.	557.	547.	
STA	10.		563.	530.	510.	
STA	11.		563.	530.	529.	
STA	12.		563.	530.	641.	
STA	13.		561.	541.	652.	
STA	14.		565.	544.	682.	
STA	15.		710.	550.	729.	
STA	16.		752.	557.	555.	
SECTION	140B.		55.	102.	1.	
GENERAL	545.			1.	1.	
GENERAL	1.		0.	0.64	563.	
GENERAL	2.		0.	0.065	683.	
GENERAL	3.		0.	0.045	685.	
GENERAL	4.		0.	0.06	889.	
STA	5.		560.	186.	560.	270.
STA	6.		586.	547.	518.	547.
STA	7.		585.	543.	553.	544.
STA	8.		586.	542.	545.	541.
STA	9.		586.	543.	579.	565.
STA	10.		586.	542.	653.	569.
STA	11.		586.	543.	653.	545.
STA	12.		586.	542.	756.	543.
STA	13.		586.	541.	756.	543.
STA	14.		586.	541.	775.	555.
SECTION	140C.		55.	55.	1.	
GENERAL	545.			1.	1.	
GENERAL	1.		0.	0.64	563.	



SECTION	#	C	V.VO	012.	955.	
ATA	9.0	560.	175.	560.	214.	547.
ATA	365.	547.	445.	548.	535.	548.
ATA	565.	547.	600.	546.	607.	545.
ATA	625.	544.	645.	543.	665.	542.
ATA	672.	541.	675.	540.	622.	535.
ATA	697.	536.	720.	529.	743.	523.
ATA	750.	530.	757.	535.	750.	540.
ATA	765.	545.	767.	546.	778.	547.
ATA	782.	548.	785.	549.	786.	550.
ATA	795.	555.	805.	559.	812.	558.
NOTABLE						
SECTION	1460.	B9.	172.		1.	1.
ENERAL	535.					
ELEMENT	1.	D.	0.06	662.	535.	
ELEMENT	2.	C.	0.045	756.	646.	
ELEMENT	3.	B.	0.08	819.	565.	
ATA	9.	547.	228.	547.	414.	547.
ATA	445.	548.	535.	548.	565.	547.
ATA	600.	546.	665.	545.	625.	544.
ATA	645.	543.	665.	542.	671.	541.
ATA	675.	548.	682.	535.	635.	538.
ATA	720.	529.	742.	529.	743.	530.
ATA	755.	535.	760.	549.	763.	545.
ATA	765.	546.	776.	547.	780.	548.
ATA	782.	549.	785.	559.	795.	555.
ATA	805.	560.	819.	565.		
NOTABLE						
SECTION	141.	106.	100.		1.	1277+16
ENERAL	545.					
ELEMENT	1.	C.	0.05	739.	546.	
ELEMENT	2.	D.	0.045	859.	565.	
ATA	9.	565.	0.	560.	10.	559.
ATA	300.	568.	325.	547.	450.	548.
ATA	605.	548.	650.	546.	730.	546.
ATA	736.	545.	757.	538.	775.	538.
ATA	780.	529.	800.	529.	805.	530.
ATA	850.	565.				
NOTABLE						
SECTION	142.	1.	1.		1.	1288+69
ENERAL	546.					
ELEMENT	1.	D.	0.05	734.	545.	
ELEMENT	2.	C.	0.04	944.	563.	
ATA	9.	565.	0.	569.	40.	558.
ATA	360.	568.	325.	547.	338.	547.
ATA	500.	549.	570.	549.	530.	547.
ATA	650.	546.	712.	546.	734.	546.
ATA	765.	546.	783.	539.	790.	529.
ATA	834.	529.	852.	535.	869.	539.
ATA	934.	560.	944.	565.		
NOTABLE						

ROCK CREEK AT WINNWOOD AND CELESTIAL RD. - EXIT.

RUN DATE-07 24 85

SECTION 136.	DISTANCE						STATION=			
	CUMSTREAM		UPSTREAM		DRAINAGE		VALVE BY SEGMENTS			
	CHANNEL	VALLEY	CHANNEL	VALLEY	AREA, SQ MI	1.00	.120	.060	.030	END AREA
KD VALUES										
	ELEVATION	CHANNEL	VALLEY		TOTAL					SQ. FT.
	550.00	648849.3	644471.6		1293321.0					11631.25
	553.00	611669.6	568353.8		1180043.0					10295.68
	553.00	575498.9	498843.4		1973342.0					3413.99
	557.00	539723.7	430221.8		965945.5					6666.69
	556.00	505426.2	378733.6		876159.0					7967.60
	555.00	471461.3	313066.3		784517.0					7159.09
	554.00	439999.7	263347.0		702356.7					6521.99
	553.00	407647.3	216040.0		623667.3					5869.45
	552.00	376225.4	174338.8		558534.3					5253.20
	551.00	346593.6	137711.4		484217.0					4571.11
	550.00	317419.8	103998.4		421418.2					4108.59
	549.00	289796.1	76948.5		366738.6					3529.56
	548.00	262993.8	53281.3		316275.2					3894.56
	547.00	237039.9	32996.9		276027.9					2623.56
	546.00	212515.0	18402.8		230321.8					2193.00
	545.00	189699.6	7896.0		197793.6					1766.19
	544.00	163199.4	1549.5		170748.5					1434.55
	543.00	153205.9	526.9		153733.8					1269.22
	542.00	138285.2	110.1		138395.2					1145.23
	541.00	124246.1	0.0		124245.1					1044.67
	540.00	111196.8	0.0		111196.8					957.91
	539.00	98155.3	0.0		98155.3					875.25
	538.00	85922.6	0.0		85922.6					795.51
	537.00	74469.6	0.0		74469.6					718.37
	536.00	63753.1	0.0		63753.1					643.69
	535.00	53338.9	0.0		53338.9					571.87
	534.00	45821.4	0.0		45821.4					503.82
	533.00	36962.4	0.0		36962.4					437.37
	532.00	29363.4	0.0		29363.4					374.79
	531.00	23157.5	0.0		23157.5					315.48
	530.00	17444.5	0.0		17444.5					259.51
	529.00	12409.3	0.0		12409.3					206.56
	528.00	8105.4	0.0		8105.4					155.63
	527.00	4610.5	0.0		4610.5					108.21
	526.00	1966.1	0.0		1966.1					62.57
	525.00	319.0	0.0		319.0					20.64
	524.00	0.0	0.0		0.0					0.00
	CFS	VELOCITY	ELEV.		CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
	36700.00	5.81	553.78							

ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.

RUN DATE-67 24 65

PAGE 2

EDITION 137.	DISTANCE				DRAINAGE AREA, SQ. MI 1.00	NO. 1 .129	STATION=				
	DOWNSTREAM CHANNEL 153.	VALLEY 185.	UPSTREAM CHANNEL 363.	VALLEY 364.			'IN' VALUE BY SEGMENTS				
	KD VALUES						B.D. AREA				
	ELEVATION	CHANNEL	VALLEY	TOTAL			'IN'	'IN'	'IN'	'IN'	'IN'
	560.00	563418.6	1395866.0	1959285.0			14617.00				
	559.00	527584.6	1248366.0	1766451.0			13653.02				
	558.00	492954.7	1068397.0	1561062.0			12654.74				
	557.00	458118.0	952362.4	1411060.0			11765.78				
	556.00	424546.2	820339.6	1244931.0			10843.32				
	555.00	392559.5	703195.8	1095758.0			9959.66				
	554.00	351186.4	590636.1	951822.5			9065.57				
	553.00	331068.9	489635.6	820165.8			8201.57				
	552.00	342039.9	397948.4	699979.3			7356.61				
	551.00	273741.3	312780.3	586521.6			6522.57				
	550.00	247639.0	241345.9	486384.6			5713.36				
	549.00	221248.5	177855.8	395142.4			4920.68				
	548.00	196370.1	122424.1	318794.2			4145.11				
	547.00	173086.5	61167.5	254194.1			3405.20				
	546.00	159839.8	48878.5	199717.9			2726.49				
	545.00	129705.4	26172.1	155577.5			2125.58				
	544.00	116656.5	21535.6	132391.6			1710.97				
	543.00	95241.1	17036.9	112340.6			1425.06				
	542.00	81520.3	13151.8	94672.1			1269.55				
	541.00	69069.4	10228.1	79297.5			1026.97				
	540.00	68323.7	8353.7	76683.4			905.21				
	539.00	60650.1	6575.9	67256.0			860.66				
	538.00	52898.1	5813.2	57911.3			703.86				
	537.00	45777.7	5670.9	49448.6			613.37				
	536.00	39390.6	2958.4	41359.1			530.18				
	535.00	33454.3	1673.4	35173.7			453.81				
	534.00	27837.9	950.2	28826.1			383.46				
	533.00	22495.3	478.0	22974.1			317.99				
	532.00	17855.8	145.0	17802.9			257.64				
	531.00	13344.6	2.6	13347.1			203.39				
	530.00	9555.5	.0	9555.5			161.72				
	529.00	62385.9	.0	62385.9			122.72				
	528.00	3605.7	.0	3605.7			85.49				
	527.00	1650.8	.0	1650.8			49.59				
	526.00	253.9	.0	253.9			16.23				
	525.50	.0	.0	.0			.00				

CF3 VELOCITY ELEV. CF3 VELOCITY ELEV. CF3 VELOCITY ELEV.
37100.00 3.96 554.00

BUCK CREEK ST. MARYLAND AND BIRMINGHAM CO. - EXHIBIT

BN 0075-07 24 25

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ROCK CREEK AT WINNWOOD AND CELESTIAL RD. - EXIST.

RUN DATE-07 24 85

PAGE

SECTION 1386.	DISTANCE			GRAINAGE			STATION=				
	DOWNSTREAM CHANNEL 100.	VALLEY 150.	UPSTREAM CHANNEL 442.	VALLEY 356.	AREA, SQ. MI	1.00	NO. 1 .050	NO. 2 .045	NO. 3 .050	NO. 4 .045	NO. 5 .050
	XD VALUES						END AREA				
ELEVATION	CHANNEL	VALLEY	CHANNEL	VALLEY	TOTAL						
560.00	1173315.0	1504502.0		2678417.0			13197.25				
559.00	1106656.0	1324756.0		2433554.0			12611.59				
558.00	1044445.0	1147362.0		2191867.0			11429.84				
557.00	982264.2	978556.3		1561261.0			10560.93				
556.00	921246.4	821166.3		1742353.0			9636.42				
555.00	861973.3	678927.5		1540961.0			8633.46				
554.00	804399.5	565341.7		1353730.0			8007.72				
553.00	747930.2	444153.0		1192663.0			7195.67				
552.00	684191.3	352356.6		1045548.0			6438.23				
551.00	641576.6	268777.1		910347.0			5705.22				
550.00	596627.0	197522.0		766149.0			5007.76				
549.00	541987.9	140569.3		682457.5			4360.56				
548.00	494452.9	90313.5		584796.6			3737.51				
547.00	449246.9	53138.9		502347.0			3160.45				
546.00	4066559.1	25822.4		435361.4			2647.07				
545.00	366318.0	14269.2		368559.0			2244.72				
544.00	328271.2	7338.0		335569.0			1995.92				
543.00	293032.0	5806.1		298839.0			1769.74				
542.00	259453.5	1416.0		268674.5			1607.63				
541.00	228295.0	306.0		228612.0			1444.15				
540.00	199443.6	.0		199443.6			1299.10				
539.00	174481.5	.0		174481.5			1173.86				
538.00	151518.4	.0		151518.4			1055.16				
537.00	130061.2	.0		130061.2			944.50				
536.00	110340.6	.0		110340.6			839.83				
535.00	92154.1	.0		92154.1			742.63				
534.00	75427.7	.0		75427.7			649.51				
533.00	59975.7	.0		59975.7			559.46				
532.00	46161.4	.0		46161.4			471.56				
531.00	33797.7	.0		33797.7			385.58				
530.00	22866.5	.0		22866.5			391.43				
529.00	13064.0	.0		13064.0			213.46				
528.00	6674.1	.0		6674.1			139.35				
527.00	1727.3	.0		1727.3			61.22				
526.00	14.1	.0		14.1			1.98				
525.00	.0	.0		.0			.00				

CFS VELOCITY ELEV. CFS VELOCITY ELEV. CFS VELOCITY ELEV.
37100.00 4.22 554.65

ROCK CREEK AT WILSON AND SE 51ST ST - EXIT

RUN DATE-07-24-05

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SECTION 140.	DISTANCE			STATION=1286-70							
	DOWNSTREAM		UPSTREAM		DRAINAGE		'N' VALUE BY SEGMENTS				
	CHANNEL 442.	VALLEY 553.	CHANNEL 462.	VALLEY 450.	AREA, SQ. MI 1.00	.065	NO. 1 .069	NO. 2 .060	NO. 3 .060	NO. 4 .060	NO. 5 .060
					X0 VALUES		END AREA				
	ELEVATION	CHANNEL	VALLEY		TOTAL		sq. ft.				
	565.00	1035691.0	1755675.0		2841366.0		16313.50				
	564.00	1036633.0	1589765.0		2539124.0		15280.17				
	563.00	376622.0	1594842.0		2371465.0		14263.50				
	562.00	523333.0	1224622.0		2146255.0		13256.54				
	561.00	871755.4	1671069.0		1942845.0		12272.79				
	560.00	821059.5	928463.4		1751526.0		11210.00				
	559.00	771655.0	805666.0		1581322.0		10279.34				
	558.00	723561.1	700553.3		1424160.0		9255.84				
	557.00	676453.6	599251.3		1275691.0		8243.79				
	556.00	631064.6	502919.3		1133924.0		7242.18				
	555.00	586417.4	423468.1		1003396.0		6264.12				
	554.00	543494.2	346662.7		890176.0		5229.82				
	553.00	501859.1	276226.1		778076.1		5629.21				
	552.00	461058.7	210002.4		671061.1		4627.97				
	551.00	422455.4	155326.2		578782.6		4271.84				
	550.00	384698.0	107445.0		452144.0		3630.18				
	549.00	348265.3	63759.0		413564.3		3609.65				
	548.00	313799.7	36475.3		350214.0		2421.78				
	547.00	280524.7	17069.9		297534.6		1969.28				
	546.00	248622.0	6110.9		254733.7		1494.52				
	545.00	218529.1	2991.7		221229.7		1269.76				
	544.00	191264.5	965.9		192230.3		1129.20				
	543.00	165324.5	138.3		165462.9		996.53				
	542.00	145827.0	8.0		145835.0		835.29				
	541.00	127550.0	0.0		127550.0		686.76				
	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		570.29				
	537.00	65026.1	0.0		65026.1		497.95				
	536.00	52404.0	0.0		52404.0		428.80				
	535.00	41148.3	0.0		41148.3		362.94				
	534.00	31126.5	0.0		31126.5		300.65				
	533.00	22340.0	0.0		22340.0		240.14				
	532.00	14857.0	0.0		14857.0		163.32				
	531.00	8687.4	0.0		8687.4		129.53				
	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				

ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.

RUN DATE-87 24 35

SECTION 1400.	DISTANCE				DRAINAGE		STATION=			
	DOWNSTREAM		UPSTREAM		AREA, SQ MI	1.00	NO. 1	IN' VALUE BY SEGMENTS		
	CHANNEL 55.	VALLEY 102.	CHANNEL 55.	VALLEY 65.				.040	.065	.045
					ID VALUES					.020
	ELEVATION	CHANNEL	VALLEY	TOTAL						END AREA
	565.00	960442.9	1739979.9	2700413.9						59. FT.
	564.00	913229.9	1545663.9	2455664.9						13357.59
	563.00	866352.2	1357661.9	2223414.9						12545.76
	562.00	829696.8	1182279.9	2003175.9						11736.52
	561.00	778162.1	1052222.9	1828334.9						10136.71
	560.00	732508.2	989244.8	1721753.9						9370.86
	559.00	689956.2	891818.7	1581777.9						8629.39
	558.00	648144.2	771424.9	1415569.9						8065.89
	557.00	607750.3	660918.1	1268668.9						7449.19
	556.00	568063.9	555299.9	1123352.9						6835.78
	555.00	523721.7	453338.7	969860.4						6228.69
	554.00	492436.4	370554.2	863392.6						5626.34
	553.00	455553.3	287629.7	743474.6						5027.19
	552.00	421956.7	217756.6	638615.3						4435.84
	551.00	389551.6	153374.4	540325.9						3845.86
	550.00	353876.4	97214.3	451959.7						3262.59
	549.00	322448.4	65583.1	377833.4						2684.41
	548.00	292935.2	27983.2	329018.4						2153.73
	547.00	262646.9	12892.4	275539.3						1711.22
	546.00	234651.4	8568.4	243219.6						1495.62
	545.00	203867.8	4728.5	213236.3						1324.47
	544.00	184475.4	2123.2	186559.5						1177.60
	543.00	162112.4	734.6	162847.9						1043.86
	542.00	140851.4	164.2	141055.6						939.92
	541.00	120835.9	29.9	128855.9						845.89
	540.00	102154.1	.9	102154.1						758.00
	539.00	85797.9	.9	85797.9						674.00
	538.00	70651.2	.9	70651.2						592.88
	537.00	56741.3	.9	56741.3						512.00
	536.00	44183.8	.9	44183.8						434.12
	535.00	33014.2	.9	33014.2						358.26
	534.00	23529.5	.9	23529.5						285.46
	533.00	15646.7	.9	15646.7						216.96
	532.00	9122.3	.9	9122.3						152.88
	531.00	4223.5	.9	4223.5						93.29
	530.00	1076.5	.9	1076.5						38.34
	529.00	.9	.9	.9						.00

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	5.42	556.02						

ROCK CREEK AT WINNIPEG AND CELESTIAL RD. - EXIT.

RUN DATE-07 24 85

SECTION 1400.	DISTANCE				DRAINAGE AREA, SQ. MI 1.00	NO. 1 .060	NO. 2 .045	NO. 3 .060	NO. 4 .060	STATION=								
	DOWNSTREAM		UPSTREAM							IN VALUE BY SEGMENTS								
	CHANNEL 55.	VALLEY 65.	CHANNEL 89.	VALLEY 172.						END AREA								
					KD VALUES													
	ELEVATION	CHANNEL	VALLEY		TOTAL													
	565.00	899767.8	2179355.0		3679143.0													
	564.00	856355.1	1986659.0		2845654.0													
	563.00	614452.1	1696649.0		2615662.0													
	562.00	773148.1	1623022.0		2396171.0													
	561.00	732459.4	1459874.0		2188365.0													
	560.00	692789.6	1286541.0		1576730.0													
	559.00	654045.3	1131780.0		1785336.0													
	558.00	615354.2	962457.0		1538422.0													
	557.00	579160.6	844566.6		1423567.0													
	556.00	542655.0	712357.3		1255213.0													
	555.00	507805.0	591582.8		1099308.0													
	554.00	473666.0	479721.0		953359.1													
	553.00	440142.4	373983.3		814131.0													
	552.00	402176.1	284500.3		662775.4													
	551.00	376566.0	201652.6		578761.3													
	550.00	346349.3	129415.3		475756.1													
	549.00	317363.0	74777.4		392681.2													
	548.00	289148.3	356535.7		324835.0													
	547.00	261882.0	12707.4		274583.4													
	546.00	235822.5	12707.4		248526.0													
	545.00	216915.5	8511.3		219426.0													
	544.00	187117.8	4768.3		191686.1													
	543.00	164431.7	2657.7		167669.5													
	542.00	142883.2	1617.2		144596.5													
	541.00	122566.7	1072.5		123573.3													
	540.00	103500.0	665.0		104196.7													
	539.00	86504.0	383.0		87287.5													
	538.00	71436.5	178.2		71674.6													
	537.00	57329.0	60.4		57081.0													
	536.00	44509.0	11.0		44521.7													
	535.00	32863.0	.0		32663.0													
	534.00	23664.0	.0		23664.0													
	533.00	15735.0	.0		15735.0													
	532.00	9209.1	.0		9209.1													
	531.00	4253.0	.0		4253.0													
	530.00	1667.4	.0		1667.4													
	529.00	.0	.0		.0													

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.29	556.00						

ROCK CREEK AT WINNWOOD AND CELESTIAL RD - EXIST.

RUN DATE-87 11 25

SECTION 141.	DISTANCE						STATION=1277+15		
	DOWNSTREAM		UPSTREAM		DRAINAGE		'IN' VALUE BY SECTION		
	CHANNEL 60.	VALLEY 172.	CHANNEL 106.	VALLEY 109.	AREA, SQ MI 1.00		NO. 1 .060	NO. 2 .045	NO. 3 .045
HD VALUES									
	EL ELEVATION	CHANNEL	VALLEY		TOTAL		SQ. FT.		
	565.00	1201518.0	857226.5	2056744.9	12262.00				
	564.00	1049454.0	811310.1	1864604.0	11433.16				
	563.00	906649.1	765825.1	1666475.0	10534.78				
	562.00	764518.4	722075.5	1466539.8	9738.25				
	561.00	649536.9	679299.7	1326536.0	8898.91				
	560.00	565609.1	637623.5	1203232.0	8067.22				
	559.00	523359.8	597346.8	1123708.0	7359.26				
	558.00	506760.1	557946.4	1066703.0	6823.66				
	557.00	444642.6	520174.4	964817.0	6282.82				
	556.00	369869.2	483205.3	853035.4	5749.91				
	555.00	302151.3	447787.4	746948.8	5221.89				
	554.00	240047.4	410555.7	656583.1	4695.36				
	553.00	181676.6	390062.1	551739.7	4171.69				
	552.00	133449.3	348545.3	481395.2	3653.14				
	551.00	89443.2	317769.3	407213.0	3136.53				
	550.00	51762.2	288163.5	339871.6	2622.96				
	549.00	25325.1	254181.3	285706.4	2113.55				
	548.00	9645.9	235318.3	243864.2	1678.33				
	547.00	2197.7	207721.6	263919.3	1333.98				
	546.00	366.3	184365.3	164731.6	1155.75				
	545.00	.0	167255.2	167255.2	1047.14				
	544.00	.0	148346.8	148346.8	960.68				
	543.00	.0	138371.3	138371.3	876.37				
	542.00	.0	113505.6	113505.6	794.64				
	541.00	.0	97737.6	97737.6	715.49				
	540.00	.0	83211.3	83211.3	639.29				
	539.00	.0	69804.3	69804.3	555.77				
	538.00	.0	57507.3	57507.3	494.54				
	537.00	.0	46316.3	46316.3	426.69				
	536.00	.0	36296.4	36296.4	361.56				
	535.00	.0	27350.4	27350.4	298.79				
	534.00	.0	19487.7	19487.7	228.65				
	533.00	.0	12785.3	12785.3	181.49				
	532.00	.0	7275.4	7275.4	126.37				
	531.00	.0	3133.3	3133.3	74.34				
	530.00	.0	700.5	700.5	26.53				
	529.00	.0	.0	.0	.0				
	CF5 VELOCITY	ELEV.		CF5 VELOCITY	ELEV.		CF5 VELOCITY	ELEV.	
	37100.00	6.39	555.25						

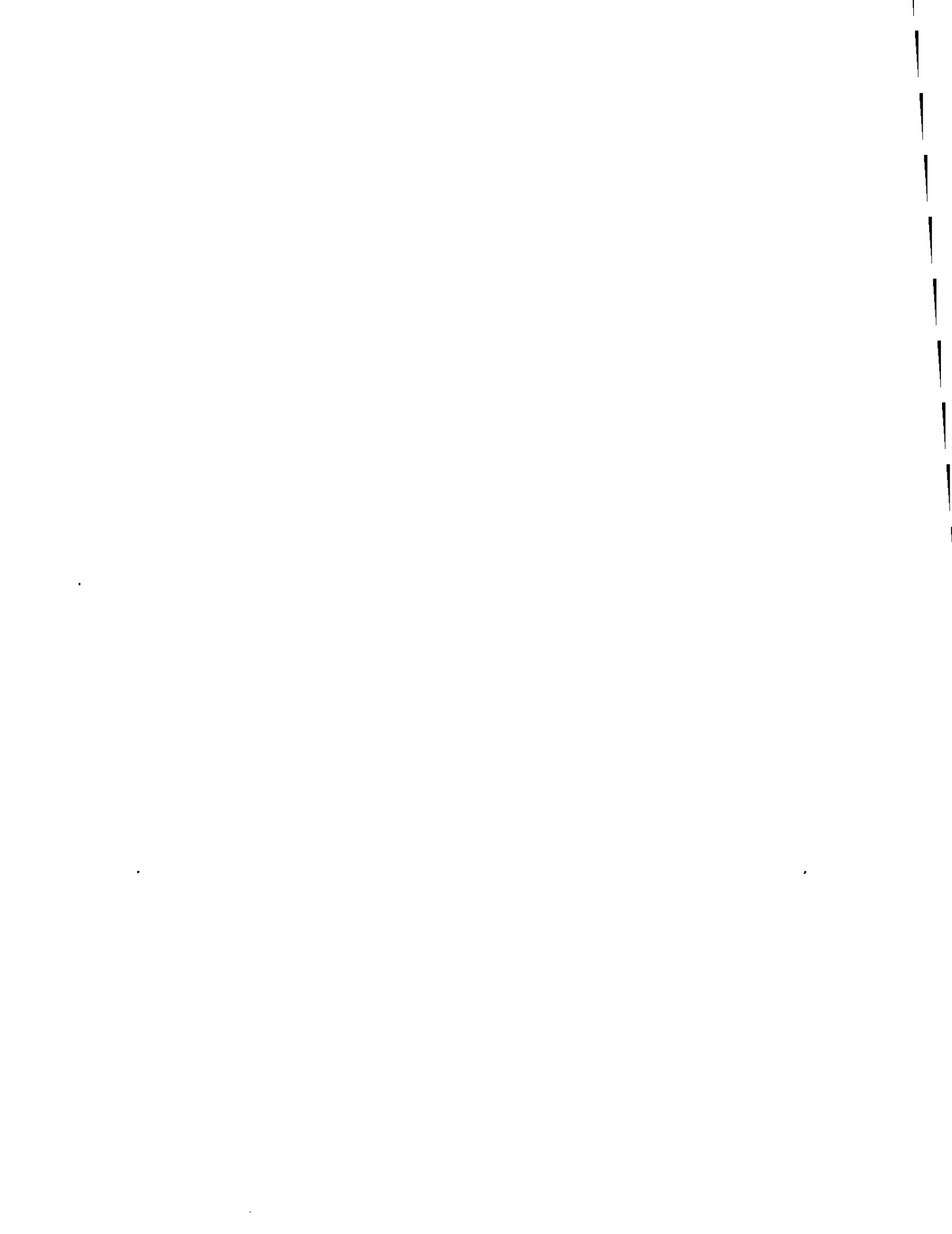
ROCK CREEK AT WINNERS AND CELESTIAL RD. - EXIST.

RUN DATE-07-14-15

SECTION 142.	DISTANCE						STATION=1286+03			
	DOWNSTREAM		UPSTREAM		GRAINAGE		W. N. E. S. BY SECTION			
	CHANNEL	VALLEY	CHANNEL	VALLEY	AREA, AC HI	NO. 1	NO. 2	NO. 3	S	
NO. VALUES						END AREA				
ELEVATION	CHANNEL	VALLEY	CHANNEL	VALLEY	TOTAL	50.0	50.0	50.0	50.0	
565.00	1241423.0	1241164.0	12412562.0		14153.50					
564.00	1231111.0	1086537.0	12417642.0		15211.50					
563.00	1241772.0	935962.0	2176654.0		12169.50					
562.00	1166346.0	796316.2	1552563.4		11631.52					
561.00	1073807.0	671226.1	1715033.4		10398.82					
560.00	995667.5	566647.6	1562256.0		9468.73					
559.00	925394.0	513755.4	1441150.0		8658.50					
558.00	864584.7	506657.5	1369162.0		7527.55					
557.00	793616.3	445659.0	1244663.0		7291.00					
556.00	740644.0	363842.6	1110457.0		6682.41					
555.00	685315.0	391741.6	997955.0		6861.50					
554.00	632603.0	289322.0	871552.0		5486.31					
553.00	561767.7	180632.1	762370.0		4959.52					
552.00	505099.0	132355.6	667375.0		4926.44					
551.00	465911.1	88268.1	578171.1		3750.53					
550.00	417850.0	50605.1	467659.0		3184.50					
549.00	391635.2	27552.5	426557.7		2659.54					
548.00	356847.0	12295.5	365144.0		2156.46					
547.00	314465.4	2382.7	317429.1		1814.36					
546.00	274456.0	171.5	274669.0		1545.50					
545.00	239271.1	31.5	239362.7		1400.51					
544.00	209446.7	0.0	209449.7		1266.15					
543.00	163914.0	0.0	163914.0		1141.42					
542.00	160756.5	0.0	160756.5		1024.44					
541.00	139923.0	0.0	139923.0		915.30					
540.00	121586.0	0.0	121586.0		614.60					
539.00	101826.7	0.0	101826.7		720.53					
538.00	83759.0	0.0	83759.0		629.50					
537.00	67371.0	0.0	67371.0		542.33					
536.00	52753.1	0.0	52753.1		453.00					
535.00	39867.0	0.0	39867.0		379.54					
534.00	28657.0	0.0	28657.0		303.00					
533.00	19328.0	0.0	19328.0		232.73					
532.00	11636.0	0.0	11636.0		166.50					
531.00	5735.0	0.0	5735.0		105.40					
530.00	1755.1	0.0	1755.1		49.15					
529.00	0.0	0.0	0.0		30.00					
	CFS	VELOCITY	ELEV.		CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
	37160.00	5.37	556.50							

includes C.H or 132 -

1267461	547.	548.
1267462	549.	550.
1267463	551.	552.
1267464	553.	554.
1267465	555.	556.
1267466	557.	558.
1267467	559.	560.
1267468	561.	562.
1267469	563.	564.
1267470	565.	566.
1267471	567.	568.
1267472	569.	570.
1267473	571.	572.
1267474	573.	574.
1267475	575.	576.
1267476	577.	578.
1267477	579.	580.
1267478	581.	582.
1267479	583.	584.
1267480	585.	586.
1267481	587.	588.
1267482	589.	590.
1267483	591.	592.
1267484	593.	594.
1267485	595.	596.
1267486	597.	598.
1267487	599.	600.
1267488	601.	602.
1267489	603.	604.
1267490	605.	606.
1267491	607.	608.
1267492	609.	610.
1267493	611.	612.
1267494	613.	614.
1267495	615.	616.
1267496	617.	618.
1267497	619.	620.
1267498	621.	622.
1267499	623.	624.
1267500	625.	626.
1267501	627.	628.
1267502	629.	630.
1267503	631.	632.
1267504	633.	634.
1267505	635.	636.
1267506	637.	638.
1267507	639.	640.
1267508	641.	642.
1267509	643.	644.
1267510	645.	646.
1267511	647.	648.
1267512	649.	650.
1267513	651.	652.
1267514	653.	654.
1267515	655.	656.
1267516	657.	658.
1267517	659.	660.
1267518	661.	662.
1267519	663.	664.
1267520	665.	666.
1267521	667.	668.
1267522	669.	670.
1267523	671.	672.
1267524	673.	674.
1267525	675.	676.
1267526	677.	678.
1267527	679.	680.
1267528	681.	682.
1267529	683.	684.
1267530	685.	686.
1267531	687.	688.
1267532	689.	690.
1267533	691.	692.
1267534	693.	694.
1267535	695.	696.
1267536	697.	698.
1267537	699.	700.
1267538	701.	702.
1267539	703.	704.
1267540	705.	706.
1267541	707.	708.
1267542	709.	710.
1267543	711.	712.
1267544	713.	714.
1267545	715.	716.
1267546	717.	718.
1267547	719.	720.
1267548	721.	722.
1267549	723.	724.
1267550	725.	726.
1267551	727.	728.
1267552	729.	730.
1267553	731.	732.
1267554	733.	734.
1267555	735.	736.
1267556	737.	738.
1267557	739.	740.
1267558	741.	742.
1267559	743.	744.
1267560	745.	746.
1267561	747.	748.
1267562	749.	750.
1267563	751.	752.
1267564	753.	754.
1267565	755.	756.
1267566	757.	758.
1267567	759.	760.
1267568	761.	762.
1267569	763.	764.
1267570	765.	766.
1267571	767.	768.
1267572	769.	770.
1267573	771.	772.
1267574	773.	774.
1267575	775.	776.
1267576	777.	778.
1267577	779.	780.
1267578	781.	782.
1267579	783.	784.
1267580	785.	786.
1267581	787.	788.
1267582	789.	790.
1267583	791.	792.
1267584	793.	794.
1267585	795.	796.
1267586	797.	798.
1267587	799.	800.
1267588	801.	802.
1267589	803.	804.
1267590	805.	806.
1267591	807.	808.
1267592	809.	810.
1267593	811.	812.
1267594	813.	814.
1267595	815.	816.
1267596	817.	818.
1267597	819.	820.
1267598	821.	822.
1267599	823.	824.
1267600	825.	826.
1267601	827.	828.
1267602	829.	830.
1267603	831.	832.
1267604	833.	834.
1267605	835.	836.
1267606	837.	838.
1267607	839.	840.
1267608	841.	842.
1267609	843.	844.
1267610	845.	846.
1267611	847.	848.
1267612	849.	850.
1267613	851.	852.
1267614	853.	854.
1267615	855.	856.
1267616	857.	858.
1267617	859.	860.
1267618	861.	862.
1267619	863.	864.
1267620	865.	866.
1267621	867.	868.
1267622	869.	870.
1267623	871.	872.
1267624	873.	874.
1267625	875.	876.
1267626	877.	878.
1267627	879.	880.
1267628	881.	882.
1267629	883.	884.
1267630	885.	886.
1267631	887.	888.
1267632	889.	890.
1267633	891.	892.
1267634	893.	894.
1267635	895.	896.
1267636	897.	898.
1267637	899.	900.
1267638	901.	902.
1267639	903.	904.
1267640	905.	906.
1267641	907.	908.
1267642	909.	910.
1267643	911.	912.
1267644	913.	914.
1267645	915.	916.
1267646	917.	918.
1267647	919.	920.
1267648	921.	922.
1267649	923.	924.
1267650	925.	926.
1267651	927.	928.
1267652	929.	930.
1267653	931.	932.
1267654	933.	934.
1267655	935.	936.
1267656	937.	938.
1267657	939.	940.
1267658	941.	942.
1267659	943.	944.
1267660	945.	946.
1267661	947.	948.
1267662	949.	950.
1267663	951.	952.
1267664	953.	954.
1267665	955.	956.
1267666	957.	958.
1267667	959.	960.
1267668	961.	962.
1267669	963.	964.
1267670	965.	966.
1267671	967.	968.
1267672	969.	970.
1267673	971.	972.
1267674	973.	974.
1267675	975.	976.
1267676	977.	978.
1267677	979.	980.
1267678	981.	982.
1267679	983.	984.
1267680	985.	986.
1267681	987.	988.
1267682	989.	990.
1267683	991.	992.
1267684	993.	994.
1267685	995.	996.
1267686	997.	998.
1267687	999.	1000.
1267688	1001.	1002.
1267689	1003.	1004.
1267690	1005.	1006.
1267691	1007.	1008.
1267692	1009.	1000.
1267693	1011.	1012.
1267694	1013.	1014.
1267695	1015.	1016.
1267696	1017.	1018.
1267697	1019.	1020.
1267698	1021.	1022.
1267699	1023.	1024.
1267700	1025.	1026.
1267701	1027.	1028.
1267702	1029.	1030.
1267703	1031.	1032.
1267704	1033.	1034.
1267705	1035.	1036.
1267706	1037.	1038.
1267707	1039.	1040.
1267708	1041.	1042.
1267709	1043.	1044.
1267710	1045.	1046.
1267711	1047.	1048.
1267712	1049.	1050.
1267713	1051.	1052.
1267714	1053.	1054.
1267715	1055.	1056.
1267716	1057.	1058.
1267717	1059.	1060.
1267718	1061.	1062.
1267719	1063.	1064.
1267720	1065.	1066.
1267721	1067.	1068.
1267722	1069.	1070.
1267723	1071.	1072.
1267724	1073.	1074.
1267725	1075.	1076.
1267726	1077.	1078.
1267727	1079.	1080.
1267728	1081.	1082.
1267729	1083.	1084.
1267730	1085.	1086.
1267731	1087.	1088.
1267732	1089.	1090.
1267733	1091.	1092.
1267734	1093.	1094.
1267735	1095.	1096.
1267736	1097.	1098.
1267737	1099.	1100.
1267738	1101.	1102.
1267739	1103.	1104.
1267740	1105.	1106.
1267741	1107.	1108.
1267742	1109.	1110.
1267743	1111.	1112.
1267744	1113.	1114.
1267745	1115.	1116.
1267746	1117.	1118.
1267747	1119.	1120.
1267748	1121.	1122.
1267749	1123.	1124.
1267750	1125.	1126.
1267751	1127.	1128.
1267752	1129.	1130.
1267753	1131.	1132.
1267754	1133.	1134.
1267755	1135.	1136.
1267756	1137.	1138.
1267757	1139.	1140.
1267758	1141.	1142.
1267759	1143.	1144.
1267760	1145.	1146.
1267761	1147.	1148.
1267762	1149.	1150.
1267763	1151.	1152.
1267764	1153.	1154.
1267765	1155.	1156.
1267766	1157.	1158.
1267767	1159.	1160.
1267768	1161.	1162.
1267769	1163.	1164.
1267770	1165.	1166.
1267771	1167.	1168.
1267772	1169.	1170.
1267773	1171.	1172.
1267774	1173.	1174.
1267775	1175.	1176.
1267776	1177.	1178.
1267777	1179.	1180.
1267778	1181.	1182.
1267779	1183.	1184.
1267780	1185.	1186.
1267781	1187.	1188.
1267782	1189.	1190.
1267783	1191.	1192.
1267784	1193.	1194.
1267785	1195.	1196.
1267786	1197.	1198.
1267787	1199.	1200.
1267788	1201.	1202.
1267789	1203.	1204.
1267790	1205.	1206.
1267791	1207.	1208.
1267792	1209.	1210.
1267793	1211.	1212.
1267794	1213.	1214.
1267795	1215.	1216.
1267796	1217.	1218.
1267797	1219.	1220.
1267798	1221.	1222.
1267799	1223.	1224.
1267800	1225.	1226.
1267801	1227.	1228.
1267802	1229.	1230.
1267803	1231.	1232.
1267804	1233.	1234.
1267805	1235.	1236.
1267806	1237.	1238.
1267807	1239.	1240.
1267808	1241.	1242.
1267809	1243.	1244.
1267810	1245.	1246.
1267811	1247.	1248.
1267812	1249.	1250.
1267813	1251.	1252.
1267814	1253.	1254.
1267815	1255.	1256.
1267816	1257.	1258.
1267817	1259.	1260.
1267818	1261.	1262.
1267819	1263.	1264.
1267820	1265.	1266.
1267821	1267.	1268.
1267822	1269.	1270.
1267823	1271.	1272.
1267824	1273.	1274.
1267825	1275.	1276.
1267826	1277.	1278.
1267827	1279.	1280.
1267828	1281.	1282.
1267829	1283.	1284.
1267830	1285.	1286.
1267831		



SECTION 1000	DISTANCE				STATION							
	DOWNSTREAM		UPSTREAM		DETAILED		% VALUE BY SECTION					
	CHANNEL 100.	VALLEY 150	CHANNEL 100.	VALLEY 250	ARIA, 30 M	100	M0. 1	M0. 2	M0. 3	M0. 4	M0. 5	M0. 6
AD VALUES												
530.00	CHANNEL	VALLEY	530.00	530.00	530.00	530.00	530.00	530.00	530.00	530.00	530.00	530.00
531.00	1172915.0	1544592.0	2676417.0	13197.25								
532.00	1186956.0	1324790.0	2433694.0	12311.90								
533.00	1844445.0	1147362.0	2191687.0	11429.84								
534.00	982264.2	978996.2	1961261.2	10569.93								
535.00	921246.4	821106.4	1742353.4	9636.42								
536.00	561973.0	678827.5	1544991.0	8828.49								
537.00	844388.5	555321.7	1359738.5	8097.72								
538.00	747930.2	444159.0	1192083.2	7195.97								
539.00	694191.0	352256.6	1046548.0	6408.22								
540.00	641570.5	268777.1	916347.5	5785.22								
541.00	599627.0	197522.0	788149.0	5097.75								
542.00	541397.9	140599.5	682497.5	4399.59								
543.00	494482.3	99913.6	584796.3	3737.51								
544.00	449280.9	58159.9	502347.8	3164.45								
545.00	406659.1	29322.4	435981.1	2647.97								
546.00	366398.8	14269.2	396699.8	2244.72								
547.00	328271.2	7069.8	329560.8	1985.92								
548.00	289322.0	3946.1	295899.0	1799.74								
549.00	253459.5	1415.0	269874.5	1607.60								
550.00	222265.9	846.0	229512.8	1444.15								
551.00	199440.5	0.0	189443.5	1299.10								
552.00	174491.8	0.0	174591.8	1173.96								
553.00	151518.4	0.0	151518.4	1056.16								
554.00	139491.2	0.0	139491.2	944.59								
555.00	1180240.5	0.0	1180240.5	839.83								
556.00	92154.1	0.0	92154.1	742.93								
557.00	75427.7	0.0	75427.7	543.51								
558.00	59975.7	0.0	59975.7	559.49								
559.00	46161.4	0.0	46161.4	471.56								
560.00	33797.7	0.0	33797.7	325.59								
561.00	22956.5	0.0	22956.5	281.43								
562.00	15564.0	0.0	15564.0	219.45								
563.00	6674.1	0.0	6674.1	139.95								
564.00	1727.0	0.0	1727.0	61.22								
565.00	14.1	0.0	14.1	1.58								
566.00	0.0	0.0	0.0	.00								

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.22	554.95						

OPS VELOCITY ELEV. OPS VELOCITY ELEV. OPS VELOCITY ELEV.

ELEVATION	SOUTH CHANNEL			NORTH CHANNEL			SOUTH VALLEY			NORTH VALLEY			SUMMARY BY SEGMENTS					
	CHANNEL	VALLEY	ELEV.	CHANNEL	VALLEY	ELEV.	AREA, SF.	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	
													NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
550.00	702581.3	526499.5	1700392.4	5745.00									50	FT.				
555.00	705499.0	514569.5	1651994.0	5152.73														
558.00	691969.8	706806.5	1697160.0	7561.36														
567.00	647391.5	508559.4	1256221.0	6578.51														
565.00	684228.2	615913.4	1121142.0	6492.78														
565.00	562760.1	439442.8	996145.0	5945.07														
564.00	522355.4	355824.2	878153.5	5237.84														
553.00	592739.4	262107.1	764945.5	4755.27														
552.00	445120.0	219629.5	664929.0	4225.71														
551.00	468262.9	161771.0	579034.0	3791.09														
559.00	372545.0	118651.7	493187.0	3183.57														
549.00	399651.3	79710.7	499359.0	3677.80														
548.00	399320.2	38671.2	344551.0	2179.99														
547.00	274295.3	15246.5	299641.0	1719.14														
546.00	249360.0	5521.4	259559.0	1395.27														
545.00	226593.5	776.1	221369.0	1179.99														
544.00	195782.7	444.3	196227.0	1865.87														
543.00	171949.0	267.0	172216.0	573.50														
542.00	149399.0	169.3	159409.0	564.81														
541.00	127399.0	16.3	127505.0	769.99														
540.00	107919.2	.0	107919.2	715.00														
539.00	98681.0	.0	98681.0	636.00														
538.00	74535.0	.0	74535.0	553.00														
537.00	55911.0	.0	55911.0	482.00														
536.00	46522.0	.0	46522.0	409.12														
535.00	34748.0	.0	34748.0	336.27														
534.00	24846.0	.0	24846.0	267.59														
533.00	16623.0	.0	16623.0	202.79														
532.00	9925.0	.0	9925.0	144.50														
531.00	4892.0	.0	4892.0	39.49														
530.00	1129.0	.0	1129.0	41.17														
529.00	.0	.0	.0	.00														
	CF5 VEL. (ft/sec)	ELEV.	CF5 VEL. (ft/sec)	ELEV.	CF5 VEL. (ft/sec)	ELEV.	CF5 VEL. (ft/sec)	ELEV.	CF5 VEL. (ft/sec)	ELEV.	CF5 VEL. (ft/sec)	ELEV.						

EDITION 1402.	DISTANCE				STATION							
	COUNTRYMAN		POSTMAN		GRADE		VALVE BY SEGMENTS					
	CHANNEL (70.)	VALLEY (67.)	CHANNEL (55)	VALLEY (102.)	AREA 50-51 (1.00)	VALVE (.40)	NO. 1 965	NO. 2 945	NO. 3 930	NO. 4 920	NO. 5 910	NO. 6 900
AS VALVES												
	ELEVATION	CHANNEL	VALLEY		TOTAL		END AREA					
	551.00	552556.0	552730.5	1452550.0			50. 57.					
	550.00	550180.1	550754.5	1425945.0			5251.50					
	549.00	515382.0	514555.1	1325248.0			5500.37					
	548.00	461173.2	553495.5	1173188.0			7855.74					
	547.00	449235.3	550355.1	1049535.0			6624.53					
	546.00	414932.4	557175.5	926110.0			6114.25					
	545.00	384957.4	422632.1	897559.0			5647.59					
	544.00	354707.3	341765.1	559400.0			4592.74					
	543.00	325223.5	271673.0	556340.0			4142.19					
	542.00	297351.0	209407.5	556300.0			3995.94					
	541.00	270699.5	151596.0	521690.0			3273.46					
	540.00	243724.9	101027.0	344811.0			2649.00					
	539.00	216972.7	62794.5	281577.0			2337.50					
	538.00	185894.2	32154.5	227284.5			1823.36					
	537.00	172149.1	19652.5	182510.0			1335.42					
	536.00	157429.3	4249.1	154697.4			1073.14					
	535.00	129989.8	2272.7	132147.5			995.00					
	534.00	114033.2	1375.5	112266.7			884.17					
	533.00	92611.7	652.0	93504.5			700.89					
	532.00	76437.0	224.2	78261.5			610.33					
	531.00	594553.0	29.2	64920.0			532.89					
	530.00	45625.0	0.0	45625.0			453.59					
	529.00	36620.4	0.0	36620.4			379.43					
	528.00	27871.6	0.0	27871.6			311.21					
	527.00	20632.0	0.0	20632.0			240.85					
	526.00	14516.0	0.0	14516.0			192.69					
	525.00	9570.0	0.0	9570.0			142.24					
	524.00	5837.0	0.0	5837.0			99.47					
	523.00	3135.0	0.0	3135.0			62.56					
	522.00	1850.0	0.0	1850.0			34.75					
	521.00	483.0	0.0	483.0			15.21					
	520.00	81.0	0.0	81.0			9.80					
	519.00	0.0	0.0	0.0			.80					
	OF3	VELOCITY	ELEV.	OF3	VELOCITY	ELEV.	OF3	VELOCITY	ELEV.	OF3	VELOCITY	ELEV.
	37120.00	3.29	5555.52	37120.00	3.29	5555.52	37120.00	3.29	5555.52	37120.00	3.29	5555.52

SECTION NAME	STATION				STATION						
	QUADRANT		QUADRANT		QUADRANT		W. VALUE BY SEGMENTS				
	CHANNEL	VALLEY	CHANNEL	VALLEY	AREA, SQ. MI.	SEG.	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5
55.	55.	55.	55.	55.	1.00	SEG. 1	.005	.005	.005	.005	.005
	AD VALUES										
	ELEVATION	CHANNEL	VALLEY	VALLEY	70784		34. FT				
555.00	555442.9	1735979.0	2709412.9		12557.59						
554.00	513229.9	1545553.9	2355884.9		12546.76						
553.00	555352.2	1357861.9	2223414.9		11736.52						
552.00	520955.8	1182279.8	2069176.8		10939.39						
551.00	776162.1	1052222.9	1829924.9		10136.71						
550.00	732549.2	985241.8	1721753.9		9378.96						
549.00	659362.2	891818.7	1561777.9		8639.39						
548.00	545124.2	771424.9	1419569.9		8045.99						
547.00	647759.3	659181.1	1266668.9		7449.19						
546.00	554462.9	555299.9	1103352.9		6835.78						
545.00	523721.7	459268.7	999060.4		6228.59						
544.00	493429.4	378554.2	863392.6		5636.34						
543.00	455259.8	287629.7	743174.8		5027.19						
542.00	421059.7	217756.6	639915.3		4435.54						
541.00	389351.5	153374.4	548626.9		3845.26						
540.00	353976.4	97214.3	451090.7		3262.59						
539.00	322449.4	55385.1	377839.4		2684.41						
538.00	293895.3	27960.2	320018.4		2153.73						
537.00	262446.9	10392.4	275539.9		1711.22						
536.00	234651.4	8568.4	243219.9		1495.92						
535.00	206567.8	4729.5	213236.9		1224.47						
534.00	184176.4	2123.2	186599.5		1177.69						
533.00	162112.1	734.6	162947.9		1049.36						
532.00	140651.4	164.2	141055.6		939.92						
531.00	120935.9	38.9	120656.9		845.49						
530.00	982154.1	.9	940354.1		759.49						
529.00	85797.8	.9	85797.8		674.99						
528.00	79651.2	.9	79651.2		632.99						
527.00	55741.3	.9	55741.3		512.69						
526.00	44189.8	.9	44189.8		434.12						
525.00	33614.2	.9	33614.2		369.26						
524.00	23529.5	.9	23529.5		305.46						
523.00	15546.7	.9	15546.7		245.98						
522.00	9122.9	.9	9122.9		192.69						
521.00	4223.5	.9	4223.5		93.29						
520.00	1676.6	.9	1676.6		38.94						
519.00	.9	.9	.9		.99						

SECTION #	DISTANCE				STATION								WATER AREA BY SECTIONS					
	DOWNSTREAM		UPSTREAM		GRADE		WATER AREA BY SECTIONS				WATER AREA				WATER AREA			
	CHANNEL 55.	VALLEY 60.	CHANNEL 60.	VALLEY 62.	4004.00	1.00	50	1	50	2	50	3	50	4	50	5	50	6
AD VALUES																		
	ELEVATION	CHANNEL	VALLEY		TOTAL													
	553.00	553767.8	2173655.8		3473143.8													
	554.00	555555.1	1995659.9		3545554.9													
	555.00	514452.1	1994649.9		3515982.9													
	556.00	779148.1	1626422.9		3056171.9													
	557.00	762495.4	1450074.9		2183369.9													
	558.00	592789.5	1295841.9		1979730.9													
	559.00	654849.3	1161789.9		1765838.9													
	560.00	616954.2	982457.9		1598422.9													
	561.00	579169.6	844555.6		1423667.6													
	562.00	540255.8	712357.9		1255213.8													
	563.00	587085.8	591562.8		1093308.8													
	564.00	473662.8	479721.8		953250.1													
	565.00	448142.1	373989.8		814161.8													
	566.00	198175.1	284570.8		682778.1													
	567.00	375260.9	291552.5		578761.5													
	568.00	246340.3	129416.8		475756.1													
	569.00	317383.8	74777.1		392981.2													
	570.00	289149.8	55555.7		324923.8													
	571.00	261662.8	12787.4		274689.4													
	572.00	235822.5	10787.4		248629.9													
	573.00	210915.6	8511.3		219426.8													
	574.00	187117.8	6762.3		191666.1													
	575.00	164431.7	2657.7		167469.5													
	576.00	142380.2	1617.2		144520.3													
	577.00	122590.7	1472.3		123570.3													
	578.00	100570.3	985.9		104195.7													
	579.00	66584.8	380.8		87287.8													
	580.00	71295.6	178.2		71574.8													
	581.00	57320.8	69.4		67361.5													
	582.00	11579.3	11.8		11921.7													
	583.00	32228.8	.8		32228.8													
	584.00	39564.5	.8		39564.5													
	585.00	15735.8	.8		15735.8													
	586.00	9209.1	.8		9209.1													
	587.00	4263.8	.8		4263.8													
	588.00	1967.4	.8		1967.4													
	589.00	.9	.8		.9													
CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		CFS VELOCITY		
37100.00		4.28		555.16		37100.00		4.28		555.16		37100.00		4.28		555.16		

SECTION 121.	DISTANCE			SLOPE BY SECTION									
	CHAMBER		VALLEY	CHAMBER		VALLEY	GRADE, %		SLOPE, %		VALVE BY SECTION		
	CHAMBER	VALLEY	CHAMBER	VALLEY	CHAMBER	VALLEY	CHAMBER	VALLEY	CHAMBER	VALLEY	CHAMBER	VALLEY	
SLOPE BY SECTION													
563.00	1281515.4		657228.5		2052741.9		12222.69		90.71		563.00		
564.00	1284929.3		611310.1		18646304.0		11433.15		89.54		564.00		
565.00	999643.1		765226.1		1566475.0		10554.79		88.37		565.00		
566.00	764519.4		723279.5		1495550.0		9739.25		87.20		566.00		
567.00	649335.3		678200.7		1328533.0		8836.81		86.03		567.00		
568.00	555569.1		637600.5		1262232.0		8067.22		84.86		568.00		
569.00	522259.3		597349.0		1126769.0		7339.26		83.70		569.00		
570.00	508769.1		557340.4		1066769.0		6229.66		82.53		570.00		
571.00	444642.5		526174.4		964817.0		5382.82		81.36		571.00		
572.00	359929.2		483206.0		853995.4		5749.81		80.20		572.00		
573.00	392161.3		417767.4		749948.0		5221.89		79.03		573.00		
574.00	249987.3		413535.7		650568.1		4639.96		77.87		574.00		
575.00	181576.5		389962.1		561730.7		4171.69		76.70		575.00		
576.00	133449.3		349545.3		494955.2		3653.14		75.54		576.00		
577.00	89443.2		317789.0		467213.9		3136.53		74.37		577.00		
578.00	81762.2		292469.5		392871.0		2622.86		73.20		578.00		
579.00	25525.1		269181.0		285706.1		2113.56		72.03		579.00		
580.00	9685.3		233218.0		245944.2		1676.33		70.87		580.00		
581.00	2157.7		207721.6		209919.3		13332.99		69.70		581.00		
582.00	366.3		184365.0		184731.5		1135.75		68.53		582.00		
583.00	.0		167255.2		167255.2		1047.14		67.36		583.00		
584.00	.0		148246.0		148246.0		959.58		66.20		584.00		
585.00	.0		136871.3		136871.3		876.37		65.03		585.00		
586.00	.0		118595.5		118595.5		794.64		63.87		586.00		
587.00	.0		97737.5		97737.5		715.49		62.70		587.00		
588.00	.0		82011.0		82011.0		639.28		61.54		588.00		
589.00	.0		69884.0		69884.0		565.77		60.37		589.00		
590.00	.0		57597.0		57597.0		484.94		59.20		590.00		
591.00	.0		46315.0		46315.0		406.30		58.03		591.00		
592.00	.0		36298.4		36298.4		321.98		56.86		592.00		
593.00	.0		27650.4		27650.4		238.73		55.70		593.00		
594.00	.0		19487.7		19487.7		159.65		54.53		594.00		
595.00	.0		12786.9		12786.9		101.19		53.37		595.00		
596.00	.0		7675.4		7275.4		126.37		52.20		596.00		
597.00	.0		3163.0		3133.0		74.34		51.03		597.00		
598.00	.0		760.5		700.5		36.99		50.86		598.00		
599.00	.0		.0		.0		.00		.00		599.00		
	OF3	VELOCITY	ELEV.	OF3	VELOCITY	ELEV.	OF3	VELOCITY	ELEV.	OF3	VELOCITY	ELEV.	
591.00	2.30	555.26		592.00	2.30	556.26		593.00	2.30	557.26		594.00	

SECTION #2	DISTANCE				STATION=1298+63							
	DOWNSTREAM		UPSTREAM		GRADE		W' VALUE BY SEGMENTS					
	CHANNEL	VALLEY	CHANNEL	VALLEY	ANNUAL	ST	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6
					W' VALUES							
	ELEVATION	CHANNEL	VALLEY	VALLEY	70782		90.77					
	555.00	1421429.0	1241164.0	2662931.0			14.53	.50				
	554.00	1231111.0	1095537.0	2417648.0			12.21	.38				
	553.00	1241772.0	935982.0	2176894.0			12.09	.82				
	552.00	1186319.0	759615.0	1952659.0			11.91	.22				
	551.00	1673987.0	671226.0	1749433.0			10.95	.82				
	550.00	995547.0	593347.0	1552255.0			9.69	.73				
	549.00	325324.0	513755.0	1444156.0			8.62	.00				
	548.00	956534.0	590537.0	1322162.0			7.37	.65				
	547.00	799618.0	445050.0	1214653.0			7.21	.00				
	546.00	746644.0	365942.0	1116427.0			6.52	.11				
	545.00	685515.0	341741.0	987056.0			6.01	.00				
	544.00	632629.0	293922.0	871852.0			5.68	.51				
	543.00	561707.0	196632.0	762099.0			4.99	.92				
	542.00	535569.0	132235.0	657275.0			4.23	.04				
	541.00	499512.0	88290.0	578172.0			3.79	.55				
	540.00	417699.0	59465.0	497699.0			3.04	.65				
	539.00	461835.0	27952.0	428997.0			2.69	.54				
	538.00	355547.0	12256.0	355547.0			2.19	.47				
	537.00	314496.0	1932.0	317426.0			1.81	.55				
	536.00	274498.0	171.0	274498.0			1.45	.93				
	535.00	239271.0	31.0	239271.0			1.09	.31				
	534.00	289449.0	0	289449.0			1.05	.15				
	533.00	183914.0	0	183914.0			1.14	.42				
	532.00	166762.0	0	166762.0			1.02	.11				
	531.00	139923.0	0	139923.0			0.15	.39				
	530.00	121566.0	0	121566.0			0.14	.63				
	529.00	161826.0	0	161826.0			0.20	.00				
	528.00	82759.0	0	82759.0			0.29	.00				
	527.00	67371.0	0	67371.0			0.42	.00				
	526.00	52753.0	0	52753.0			0.53	.05				
	525.00	39667.0	0	39667.0			0.79	.34				
	524.00	29627.0	0	29627.0			0.92	.63				
	523.00	18322.0	0	18322.0			0.52	.79				
	522.00	11639.0	0	11639.0			0.65	.69				
	521.00	5735.0	0	5735.0			0.95	.49				
	520.00	1755.0	0	1755.0			0.89	.16				
	519.00	0	0	0			0.00					
	520.00	0	0	0			0.00					
	521.00	0	0	0			0.00					
	522.00	0	0	0			0.00					
	523.00	0	0	0			0.00					
	524.00	0	0	0			0.00					
	525.00	0	0	0			0.00					
	526.00	0	0	0			0.00					
	527.00	0	0	0			0.00					
	528.00	0	0	0			0.00					
	529.00	0	0	0			0.00					
	530.00	0	0	0			0.00					
	531.00	0	0	0			0.00					
	532.00	0	0	0			0.00					
	533.00	0	0	0			0.00					
	534.00	0	0	0			0.00					
	535.00	0	0	0			0.00					
	536.00	0	0	0			0.00					
	537.00	0	0	0			0.00					
	538.00	0	0	0			0.00					
	539.00	0	0	0			0.00					
	540.00	0	0	0			0.00					
	541.00	0	0	0			0.00					
	542.00	0	0	0			0.00					
	543.00	0	0	0			0.00					
	544.00	0	0	0			0.00					
	545.00	0	0	0			0.00					
	546.00	0	0	0			0.00					
	547.00	0	0	0			0.00					
	548.00	0	0	0			0.00					
	549.00	0	0	0			0.00					
	550.00	0	0	0			0.00					
	551.00	0	0	0			0.00					
	552.00	0	0	0			0.00					
	553.00	0	0	0			0.00					
	554.00	0	0	0			0.00					
	555.00	0	0	0			0.00					
	556.00	0	0	0			0.00					
	557.00	0	0	0			0.00					
	558.00	0	0	0			0.00					
	559.00	0	0	0			0.00					
	560.00	0	0	0			0.00					
	561.00	0	0	0			0.00					
	562.00	0	0	0			0.00					
	563.00	0	0	0			0.00					
	564.00	0	0	0			0.00					
	565.00	0	0	0			0.00					
	566.00	0	0	0			0.00					
	567.00	0	0	0			0.00					
	568.00	0	0	0			0.00					
	569.00	0	0	0			0.00					
	570.00	0	0	0			0.00					
	571.00	0	0	0			0.00					
	572.00	0	0	0			0.00					
	573.00	0	0	0			0.00					
	574.00	0	0	0			0.00					
	575.00	0	0	0			0.00					
	576.00	0	0	0			0.00					
	577.00	0	0	0			0.00					
	578.00	0	0	0			0.00					
	579.00	0	0	0			0.00					
	580.00	0	0	0			0.00					
	581.00	0	0	0			0.00					
	582.00	0	0	0			0.00					
	583.00	0	0	0			0.00					
	584.00	0	0	0			0.00					
	585.00	0	0	0			0.00					
	586.00	0	0	0			0.00					
	587.00	0	0	0			0.00					
	588.00	0	0	0			0.00					
	589.00	0	0	0			0.00					
	590.00	0	0	0			0.00					
	591.00	0	0	0			0.00					
	592.00	0	0	0			0.00					
	593.00	0	0	0			0.00					
	594.00	0	0	0			0.00					
	595.00	0	0	0			0.00					
	596.00	0	0	0			0.00					
	597.00	0	0	0			0.00					
	598.00	0	0	0			0.00					
	599.00	0	0	0			0.00					
	600.00	0	0	0			0.00					
	601.00	0	0	0			0.00					
	602.00	0	0	0			0.00					
	603.00	0	0	0			0.00					
	604.00	0	0	0			0.00					
	605.00	0	0	0			0.00					
	606.00	0	0	0			0.00					
	607.00	0	0	0			0.00					
	608.00	0	0	0			0.00					
	609.00	0	0	0			0.00					
	610.00	0	0	0			0.00		</			

APPENDIX 3
EQUAL REDUCTION OF CONVEYANCE ANALYSIS

TITLE WHITE ROCK CREEK AT WILMING AND CELESTIAL RD. - PRIMED

CSA-ELEV 36700. 553.70

WSP JK. Eq.

FINAL 142.
 SECTION 136. 158. 165. 1. 1.
 GENERAL 544.
 SEGMENT 1. 0 0.12 159. 545.
 SEGMENT 2. 0 0.06 295. 544.
 SEGMENT 3. 0 0.09 545. 544.
 DATA 0. 560. 149. 559. 159. 545.
 DATA 159. 545. 295. 549. 297. 535.
 DATA 221. 524.5 261. 524.5 268. 538.
 DATA 287. 540. 295. 544. 295. 544.
 DATA 375. 544. 395. 542. 400. 542.
 DATA 412. 543. 589. 545. 589. 559.
 DATA 845. 560. 845. 560.

Equal Recession

C.

Convex Conc.

EMTABLE 137. 363. 364. -1.
 SECTION 137. 363. 364. 1.
 GENERAL 541.
 SEGMENT 1. 0 0.12 155. 544.
 SEGMENT 2. 0 0.06 395. 541.
 SEGMENT 3. 0 0.09 510. 540.
 SEGMENT 4. 0 0.04 900. 560.
 DATA 0. 560. 9. 555. 29. 535.
 DATA 26. 531. 37. 531. 69. 540.
 DATA 99. 544. 103. 545. 127. 545.
 DATA 195. 544. 218. 549. 229. 525.5
 DATA 260. 525.5
 DATA 278. 535. 295. 540. 305. 541.
 DATA 365. 541. 385. 541. 385. 546.
 DATA 420. 546.0 440. 546.0 465. 546.
 DATA 510. 543. 610. 543. 710. 545.
 DATA 817. 550. 900. 550. 900. 550.
 EMTABLE SECTION 138. 360. 119. 1.
 GENERAL 545.
 SEGMENT 1. 0 0.045 229. 544.
 SEGMENT 2. 0 0.045 347. 545.
 SEGMENT 3. 0 0.09 675. 540.
 SEGMENT 4. 0 0.04 1050. 550.
 DATA 0. 560. 149. 555.74 170.29 547.84
 DATA 269. 547. 229. 544. 228. 544.
 DATA 290. 541. 249. 541. 244. 540.
 DATA 268. 526.5 295. 526.5 318. 538.
 DATA 320. 540. 335. 544. 347. 545.
 DATA 347. 545. 405. 546.0 505. 546.0
 DATA 530. 546. 675. 543. 675. 543.
 DATA 775. 545. 885. 550. 1050. 550.

EMTABLE SECTION 139A. 180. 150. 1.
 GENERAL 540.0
 SEGMENT 1. 0 0.05 237. 544.0
 SEGMENT 2. 0 0.045 330. 540.0
 SEGMENT 3. 0 0.09 450. 546.0
 SEGMENT 4. 0 0.042 891.1 555.0
 DATA 0. 557.5 149. 555.68 162.2 546.00
 DATA 260. 544.5
 DATA 287. 544.0 257. 525.4 274. 525.0
 DATA 292. 526.5 330. 542.0 340. 544.1
 DATA 327. 547.5 450. 546.0 491. 545.7
 DATA 690. 545.1 700. 544.5 690. 546.7
 DATA 891. 553.5 891.1 555.0

EMTABLE SECTION 139B. 400. 350. 1.
 GENERAL 540.

SEGMENT	1.	0	0.05	229.	541.2
SEGMENT	2.	0	0.045	235.	542.2
SEGMENT	3.	0	0.05	300.	543.4
SEGMENT	4.	0	0.045	495.	545.9
SEGMENT	5.	0	0.05	495.	545.2
SEGMENT	6.	0	0.04	295.	552.5
DATA	9.	555.	199.	559.3	544.1
DATA	229.	541.2	247.	534.7	543.2
DATA	300.	540.7	300.	540.4	526.4
DATA	350.	525.8	400.	525.7	545.9
DATA	495.	545.2	600.	544.7	546.5
DATA	800.	551.	800.	555.4	552.6
DATA	895.	552.5			
EMTABLE					
SECTION	140.	492.	490.		1. 1283+79
GENERAL	543.			1.	1.
SEGMENT	1.	0	0.065	575.	545.
SEGMENT	2.	0	0.040	570.	543.
SEGMENT	3.	0	0.050	920.	565.
DATA	-120.	565.			
DATA	-120.	550.	0.	555.	130.
DATA	255.	545.			
DATA	300.	545.	300.	547.	390.
DATA	430.	547.	575.	545.	570.
DATA	534.	539.	610.	520.	540.
DATA	652.	549.	670.	543.	690.
DATA	720.	550.	740.	554.	790.
DATA	880.	562.	920.	555.	550.
EMTABLE					
SECTION	140A.	170.	157.		1.
GENERAL	545.			1.	1.
SEGMENT	1.	0	0.04	357.	547.
SEGMENT	2.	0	0.065	560.	546.
SEGMENT	3.	0	0.04	540.	540.
SEGMENT	4.	0	0.080	752.	557.
DATA	0.	560.	155.	560.	220.
DATA			220.	545.	545.
DATA	357.	547.	442.	547.	550.
DATA	563.	545.	557.	540.	570.
DATA	592.	539.	590.	520.	625.
DATA	630.	539.	841.	535.	610.
DATA	651.	541.	682.	542.	655.
DATA	655.	544.	682.	545.	650.
DATA	710.	550.	720.	555.	550.
DATA	752.	557.			
EMTABLE					
SECTION	140B.	55.	100.		1.
GENERAL	545.			1.	1.
SEGMENT	1.	0.	0.04	359.	547.
SEGMENT	2.	0.	0.065	560.	540.
SEGMENT	3.	0.	0.045	685.	540.
SEGMENT	4.	0.	0.08	900.	561.
DATA	0.	560.	185.	560.	370.
DATA				370.	546.
DATA	320.	547.	510.	547.	545.
DATA	585.	545.	535.	544.	537.
DATA	590.	542.	685.	541.	600.
DATA	660.	529.	670.	530.	660.
DATA	685.	540.	690.	545.	700.
DATA	742.	547.	750.	540.	758.
DATA	760.	550.	775.	555.	790.
DATA	800.	561.			
EMTABLE					
SECTION	140C.	55.	65.		1.
GENERAL	540.			1.	1.
SEGMENT	1.	0	0.04	350.	547.

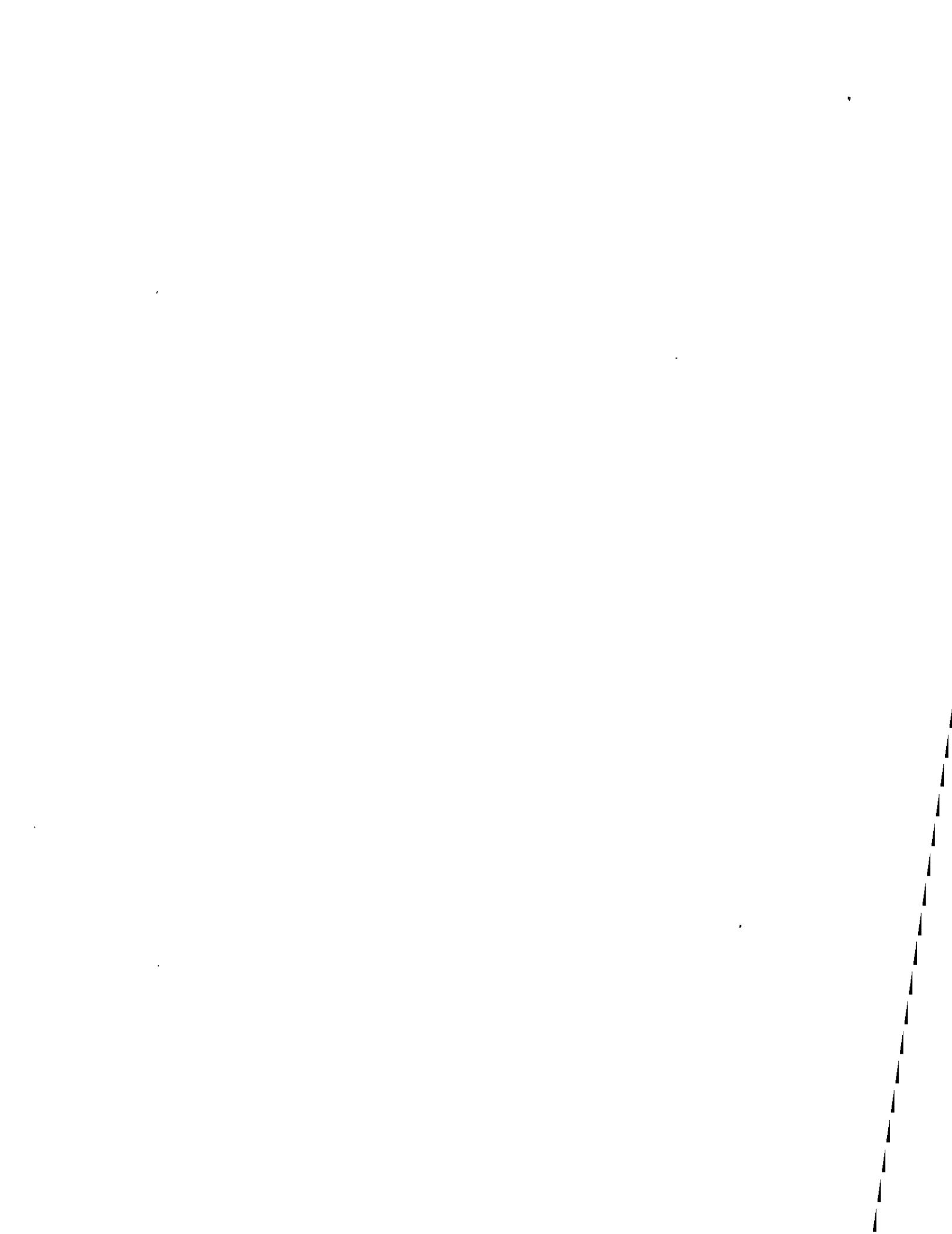
SEGMENT	2.	B.	9.965	675.	549.
SEGMENT	3.	C.	9.945	765.	545.
SEGMENT	4.	D.	9.90	812.	565.
DATA	9.9	560.	175.	560.	547.
DATA	393.	547.	445.	548.	549.
DATA	565.	547.	690.	546.	545.
DATA	625.	544.	645.	543.	542.
DATA	672.	541.	675.	540.	535.
DATA	697.	539.	720.	529.	529.
DATA	759.	538.	757.	536.	540.
DATA	765.	545.	767.	546.	547.
DATA	782.	548.	785.	549.	550.
DATA	795.	555.	895.	560.	555.

ENDTABLE					
XSECTION	1400.	80.	172.		1.
GENERAL	535.			1.	1.
SEGMENT	1.	B.	9.96	532.	535.
SEGMENT	2.	C.	9.945	760.	549.
SEGMENT	3.	D.	9.90	810.	565.
DATA	9.	547.	228.	547.	414.
DATA	445.	548.	535.	548.	547.
DATA	600.	546.	645.	545.	544.
DATA	645.	543.	665.	542.	541.
DATA	675.	540.	692.	535.	539.
DATA	720.	539.	742.	529.	539.
DATA	755.	535.	769.	540.	545.
DATA	765.	545.	776.	547.	549.
DATA	782.	549.	785.	550.	555.
DATA	805.	560.	810.	565.	

ENDTABLE					
XSECTION	141.	105.	190.		1.
GENERAL	545.			1.	1.
SEGMENT	1.	C	9.96	730.	546.
SEGMENT	2.	D	9.945	850.	565.
DATA	9.	565.	9.	560.	559.
DATA	390.	560.	325.	547.	548.
DATA	595.	560.	650.	546.	545.
DATA	735.	545.	757.	530.	539.
DATA	780.	529.	890.	525.	530.
DATA	850.	565.			

ENDTABLE					
XSECTION	142.	1.	1.		1.
GENERAL	546.			1.	1.
SEGMENT	1.	B	9.96	731.	545.
SEGMENT	2.	C	9.94	944.	565.
DATA	9.	565.	9.	560.	558.
DATA	390.	560.	325.	547.	547.
DATA	590.	549.	570.	549.	547.
DATA	650.	546.	712.	535.	545.
DATA	765.	540.	780.	530.	529.
DATA	834.	529.	852.	535.	550.
DATA	934.	560.	944.	565.	

ENDTABLE



SECTION 1000.	DISTANCE			CROSSWELL			UPSTREAM			DOWNSTREAM			STATION =					
	CHANNEL 60.	VALLEY 110.	CHANNEL 100.	VALLEY 150.	CHANNEL 100.	VALLEY 150.	AREA, SQ MI 1.00	NO. 1 .050	W. VALUE BY SEGMENTS					NO. 2 .065	NO. 3 .059	NO. 4 .042	NO. 5 .059	NO. 6 .042
									KD VALUES									END AREA
	ELEVATION	CHANNEL	VALLEY	CHANNEL	VALLEY	CHANNEL	ELEVATION											SD. FT.
	559.00	659463.4	1169451.0	1829914.0			559.00											19304.00
	557.00	618331.0	1014368.0	1632701.0			557.00											9442.01
	555.00	577942.0	869499.5	1447441.0			555.00											8821.06
	553.00	528669.0	709242.6	1279612.0			553.00											7859.71
	551.00	500532.6	610522.1	1114061.0			551.00											7108.29
	550.00	463128.9	499192.1	952361.0			550.00											6363.49
	549.00	427639.2	387439.2	815063.4			549.00											5639.73
	548.00	392059.0	292875.9	685923.9			548.00											4926.00
	547.00	359211.0	209470.2	560681.5			547.00											4227.41
	546.00	327116.9	141452.0	462995.0			546.00											3548.90
	545.00	295785.5	81814.4	377399.9			545.00											2950.29
	544.00	265952.0	32241.1	304794.4			544.00											2249.10
	543.00	237554.7	15627.8	252592.5			543.00											1727.06
	542.00	210439.6	2561.5	213001.2			542.00											1345.57
	541.00	184569.5	4.3	184672.7			541.00											1153.35
	540.00	154371.4	.0	154371.4			540.00											1041.09
	539.00	145729.0	.0	145729.0			539.00											953.23
	538.00	129265.7	.0	129265.7			538.00											928.00
	537.00	112014.6	.0	112014.6			537.00											786.71
	536.00	96051.0	.0	96051.0			536.00											700.24
	535.00	83164.0	.0	83164.0			535.00											633.77
	534.00	70431.4	.0	70431.4			534.00											562.22
	533.00	55829.1	.0	55829.1			533.00											494.06
	532.00	48307.6	.0	48307.6			532.00											429.23
	531.00	38841.5	.0	38841.5			531.00											367.73
	530.00	30326.7	.0	30326.7			530.00											309.00
	529.00	22965.9	.0	22965.9			529.00											254.60
	528.00	16550.7	.0	16550.7			528.00											203.17
	527.00	11044.7	.0	11044.7			527.00											154.71
	526.00	6540.9	.0	6540.9			526.00											109.37
	525.00	3200.0	.0	3200.0			525.00											69.06
	524.00	856.7	.0	856.7			524.00											39.00
	523.00	7.2	.0	7.2			523.00											1.02
	522.00	.0	.0	.0			522.00											.00

CFS VELOCITY ELEV.
37100.00 4.82 554.70

SECTION 140A.	DISTANCE				GRAINAGE AREA, 30 MI 1.00	NO. 1 .840	STATION=						
	CHANNEL 402.	VALLEY 430.	CHANNEL 170.	VALLEY 167.			'W' VALUE BY SEGMENTS						
							NO. 2 .965	NO. 3 .640	NO. 4 .950	NO. 5 .960	NO. 6 .950		
					KD VALUES								
		ELEVATION	CHANNEL	VALLEY	TOTAL								
		569.00	782381.3	828899.5	1766592.0		8746.00						
		559.00	735433.6	814660.6	1551094.0		8152.73						
		558.00	691062.8	705035.5	1397109.0		7961.36						
		557.00	647261.5	596959.4	1256221.0		6978.51						
		556.00	604229.2	516919.4	1121142.0		6402.78						
		555.00	552793.1	433442.8	996145.0		5846.07						
		554.00	522335.4	355524.2	878159.5		5297.84						
		553.00	492733.4	282187.1	764846.5		4755.27						
		552.00	445120.2	219639.5	664820.0		4225.71						
		551.00	408352.9	161771.3	579034.0		3701.93						
		550.00	372546.0	110561.7	483197.0		3183.67						
		549.00	339251.3	70710.7	409369.0		2677.00						
		548.00	305924.2	38671.2	344551.4		2179.00						
		547.00	274395.3	19245.5	299641.0		1719.10						
		546.00	245658.2	5921.4	298598.0		1356.27						
		545.00	220593.6	776.1	221369.7		1170.00						
		544.00	185782.7	444.3	196227.0		1056.97						
		543.00	171349.2	267.0	172216.2		973.50						
		542.00	149398.0	100.9	149409.7		824.81						
		541.00	127889.9	15.9	127906.0		790.90						
		540.00	107913.2	.0	107913.2		716.00						
		539.00	90581.0	.0	90581.0		636.00						
		538.00	74536.6	.0	74536.6		559.00						
		537.00	59911.9	.0	59911.9		482.00						
		536.00	46529.4	.0	46529.4		408.12						
		535.00	34748.0	.0	34748.0		335.27						
		534.00	24246.9	.0	24246.9		267.69						
		533.00	16632.9	.0	16632.9		200.79						
		532.00	9925.5	.0	9925.5		144.60						
		531.00	4832.5	.0	4832.5		90.40						
		530.00	1438.0	.0	1438.0		41.17						
		529.00	.0	.0	.0		.00						
	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.				
	37100.00	6.00	555.55										

SECTION NO.	DISTANCE				STATION=						
	DOWNSTREAM		UPSTREAM		DRAINAGE		W. VALUE BY SEGMENTS				
	CHANNEL 179.	VALLEY 167.	CHANNEL 55.	VALLEY 102.	AREA, SQ MI 1.00		No. 1 .060	No. 2 .065	No. 3 .065	No. 4 .060	No. 5 .060
X2 VALUES											
	EL ELEVATION	CHANNEL	VALLEY		TOTAL		92. FT.				
	561.00	595858.8	986738.6	1492530.0			9262.50				
	560.00	594120.1	875754.6	1429945.0			8509.37				
	559.00	515582.8	844065.1	1329242.0			7856.74				
	558.00	481173.2	833406.6	1179100.0			7264.44				
	557.00	448239.9	598355.1	1048595.0			6624.39				
	556.00	419332.4	587176.6	921110.0			6119.25				
	555.00	384057.4	422692.1	807539.5			5547.59				
	554.00	354727.9	344795.1	694423.1			4992.74				
	553.00	325229.5	271073.0	596380.3			4443.10				
	552.00	297351.0	209437.5	506389.0			3905.54				
	551.00	270099.5	151550.6	421639.1			3373.46				
	550.00	243784.9	101627.0	344811.9			2840.00				
	549.00	218972.7	62794.5	281677.3			2337.00				
	548.00	195030.2	32194.4	227204.6			1889.36				
	547.00	172140.1	10562.6	182610.7			1436.42				
	546.00	150409.3	4293.1	154637.4			1078.14				
	545.00	129868.8	2278.7	132147.5			905.00				
	544.00	110833.2	1375.5	112200.7			804.17				
	543.00	92811.7	692.0	93594.5			700.39				
	542.00	76037.3	224.2	76261.5			610.39				
	541.00	68553.0	29.2	68553.0			532.00				
	540.00	46625.9	.0	46625.9			453.50				
	539.00	36623.4	.0	36623.4			379.40				
	538.00	27971.0	.0	27971.0			311.21				
	537.00	206402.9	.0	206402.9			248.85				
	536.00	14516.3	.0	14516.3			192.69				
	535.00	9573.9	.0	9573.9			142.24				
	534.00	5837.9	.0	5837.9			98.47				
	533.00	3195.9	.0	3195.9			62.66				
	532.00	1459.5	.0	1459.5			34.75				
	531.00	483.0	.0	483.0			15.21				
	530.00	81.0	.0	81.0			3.00				
	529.00	.0	.0	.0			.00				
	CF5. VELOCITY	ELEV.	CF5. VELOCITY	ELEV.	CF5. VELOCITY	ELEV.	CF5. VELOCITY	ELEV.			
27100.00	5.20	553.70	27100.00	5.20	27100.00	5.20	27100.00	5.20			

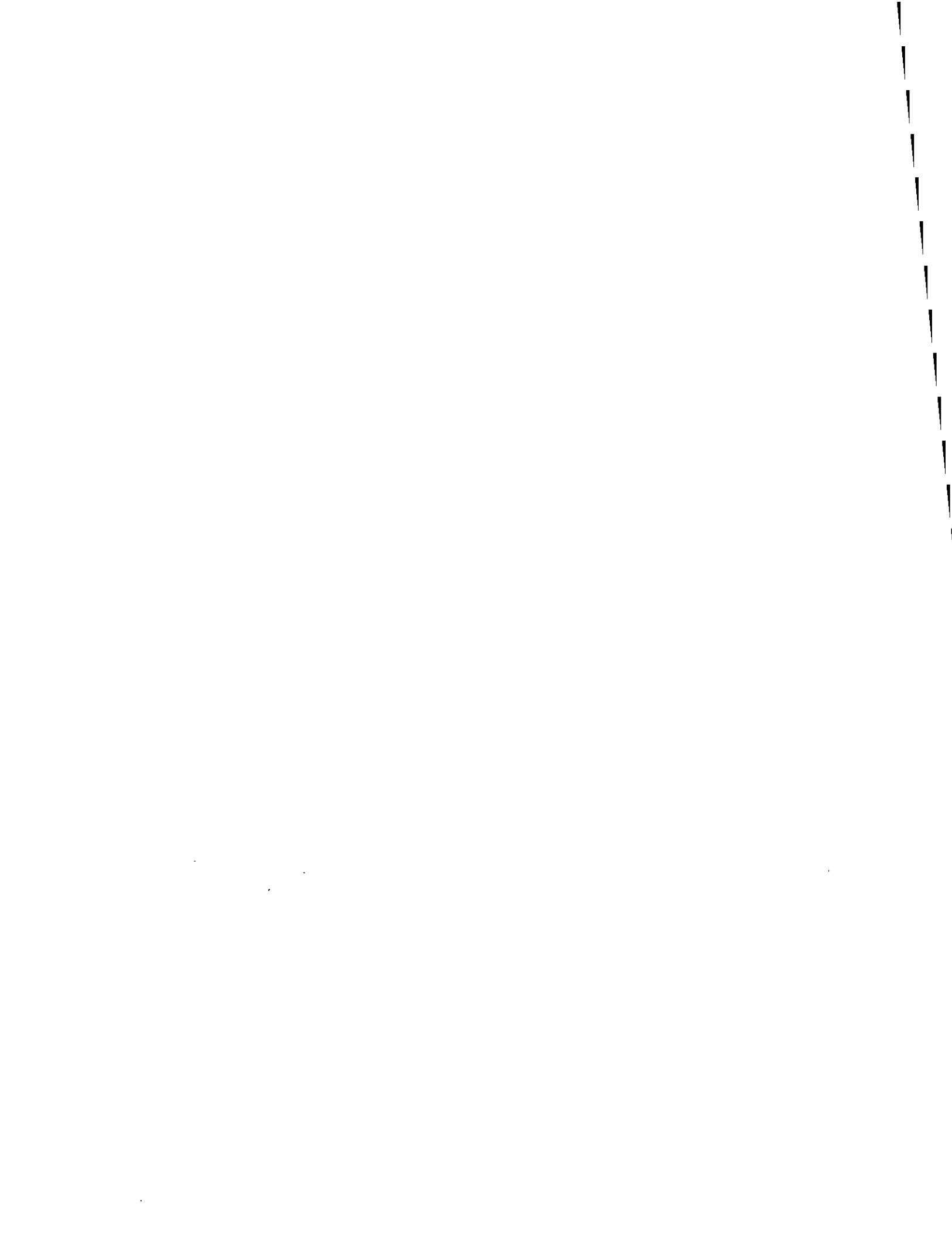
SECTION 140%.	DISTANCE				STATION=											
	CHANNEL 55.	VALLEY 102.	UPSTREAM		DOWNSTREAM		AREA, SQ. MI	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6			
			CHANNEL 55.	VALLEY 65.	CHANNEL 55.	VALLEY 65.		1.00								
			RD VALUES							RD AREA						
			ELEVATION	CHANNEL	VALLEY	TOTAL										
			565.00	960442.9	1733970.0	2799413.0										
			564.00	913220.9	1546563.0	2459984.0										
			563.00	926252.2	1257061.0	2223414.0										
			562.00	829936.8	1182279.0	2003176.0										
			561.00	776162.1	1052222.0	1822834.0										
			560.00	732500.2	989244.0	1721752.0										
			559.00	592959.2	891618.7	1581777.0										
			558.00	648144.2	771424.0	1419569.0										
			557.00	607750.3	660918.1	1268668.0										
			556.00	593952.9	555299.0	1122382.0										
			555.00	529721.7	459339.7	985969.4										
			554.00	492438.4	370954.2	863392.6										
			553.00	455853.8	287620.7	743474.5										
			552.00	421055.7	217755.6	632815.3										
			551.00	396551.5	153374.4	540326.0										
			550.00	353876.4	97214.0	451099.7										
			549.00	322448.4	553395.1	377832.4										
			548.00	293055.2	27983.2	329718.4										
			547.00	262646.9	12892.4	275539.3										
			546.00	234551.4	8559.4	243219.8										
			545.00	206537.8	4728.5	213236.0										
			544.00	184476.4	2129.2	186599.5										
			543.00	162112.4	734.5	162847.0										
			542.00	140891.4	164.2	141055.5										
			541.00	120035.9	20.9	120035.9										
			540.00	102154.1	.0	102154.1										
			539.00	85797.0	.0	85797.0										
			538.00	70651.2	.0	70651.2										
			537.00	55741.3	.0	55741.3										
			536.00	44183.0	.0	44183.0										
			535.00	33614.2	.0	33614.2										
			534.00	23529.5	.0	23529.5										
			533.00	15646.7	.0	15646.7										
			532.00	9122.0	.0	9122.0										
			531.00	4223.5	.0	4223.5										
			530.00	1976.5	.0	1976.5										
			529.00	.0	.0	.0										

CFS VELOCITY ELEV. CFS VELOCITY ELEV. CFS VELOCITY ELEV.
37100.00 5.42 555.02

SECTION 1400.	DISTANCE				NO. 1 .069	NO. 2 .045	NO. 3 .060	NO. 4 .060	NO. 5 .060	NO. 6 .060	STATION=	
	CHANNEL 55.	VALLEY 65.	CHANNEL 80.	UPSTREAM 172.							'N' VALUE BY SECTIONS	
											END AREA SF. FT.	
					NO. 1 .069	NO. 2 .045	NO. 3 .060	NO. 4 .060	NO. 5 .060	NO. 6 .060	END AREA SF. FT.	
	ELEVATION	CHANNEL	VALLEY	TOTAL								
	555.00	899787.9	2173055.0	3079143.0								
	554.00	856355.1	1950639.0	2845654.0								
	553.00	814432.1	1890649.0	2615082.0								
	552.00	773148.1	1623022.0	2336171.0								
	551.00	732495.4	1454974.0	2102359.0								
	550.00	692729.5	1206941.0	1979739.0								
	549.00	654049.9	1131700.0	1785039.0								
	548.00	615584.2	982467.9	1598422.0								
	547.00	579100.6	844566.6	1423567.0								
	546.00	542656.0	712357.0	1255213.0								
	545.00	507805.0	591502.0	1099200.0								
	544.00	473668.0	479721.0	953399.1								
	543.00	440142.4	373590.0	814131.0								
	542.00	408176.1	284600.0	692775.4								
	541.00	376268.9	281352.6	578761.5								
	540.00	345340.0	129415.0	475756.1								
	539.00	317303.0	74777.4	352081.2								
	538.00	299148.0	35686.7	324835.0								
	537.00	261982.0	12707.4	274599.4								
	536.00	235822.5	12707.4	248529.9								
	535.00	219915.5	8511.0	219426.0								
	534.00	187117.0	4768.0	151086.1								
	533.00	164431.7	2657.7	167009.5								
	532.00	142000.2	1617.2	144500.5								
	531.00	122500.7	1072.5	123572.0								
	530.00	103500.0	685.0	104196.7								
	529.00	86304.0	383.0	87287.0								
	528.00	71495.5	178.2	71674.0								
	527.00	57320.0	60.4	57321.0								
	526.00	44509.0	11.0	44521.7								
	525.00	32230.0	.0	32283.0								
	524.00	20664.5	.0	20664.5								
	523.00	15735.0	.0	15735.0								
	522.00	9209.1	.0	9209.1								
	521.00	4253.0	.0	4253.0								
	520.00	1467.4	.0	1467.4								
	519.00	.0	.0	.0								

CFS VELOCITY ELEV.
37100.00 4.20 556.26

APPENDIX 4
BOUNDARY DESCRIPTION IN FLOODWAY EASEMENT



FLOODWAY EASEMENT

STATE OF TEXAS

COUNTY OF DALLAS

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 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, along a fence, a distance of 5.22 feet to a point of tangency, said point also being the beginning of a curve to the left having a central angle of 22°02'08", a radius of 190.00 feet, a chord bearing of S 74°24'07" E, and a chord length of 72.62 feet;

THENCE, along the said curve to the left an arc length of 73.07 feet to a point of tangency;

THENCE, S 85°25'11" E, a distance of 57.39 feet to a point of tangency, said point also being the beginning of a curve to the right having a central angle of 85°25'11", a radius of 10.45 feet, a chord bearing of S 42° 42'35" E, and a chord length 14.18 feet;

THENCE, along the said curve to the right an arc length of 15.59 feet to a point;

THENCE, South 00°00'00" W, a distance of 129.99 feet to a point of tangency, said point also being the beginning of a curve to the right having a central angle of 76°59'30", a radius of 17.500 feet a chord bearing of S 38°29'45" W, and a chord length of 21.79 feet;

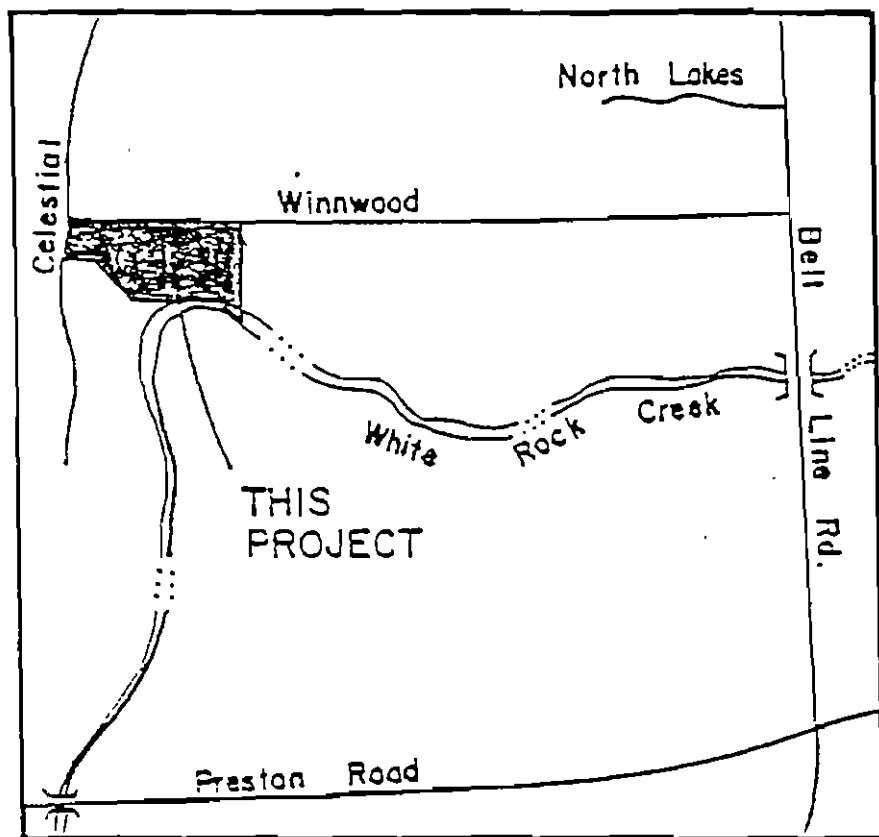
THENCE, along the said curve to the right an arc length of 23.52 feet to a point;

THENCE, S 81°50'47" W, a distance of 129.75 feet to the POINT OF BEGINNING and CONTAINING 24550.427 Square Feet or 0.56360 Acres of Land more or less.

EXHIBITS

EXHIBIT A

VICINITY MAP



Location Map
n.t.s.

EXHIBIT B

100-YEAR INUNDATION LIMITS

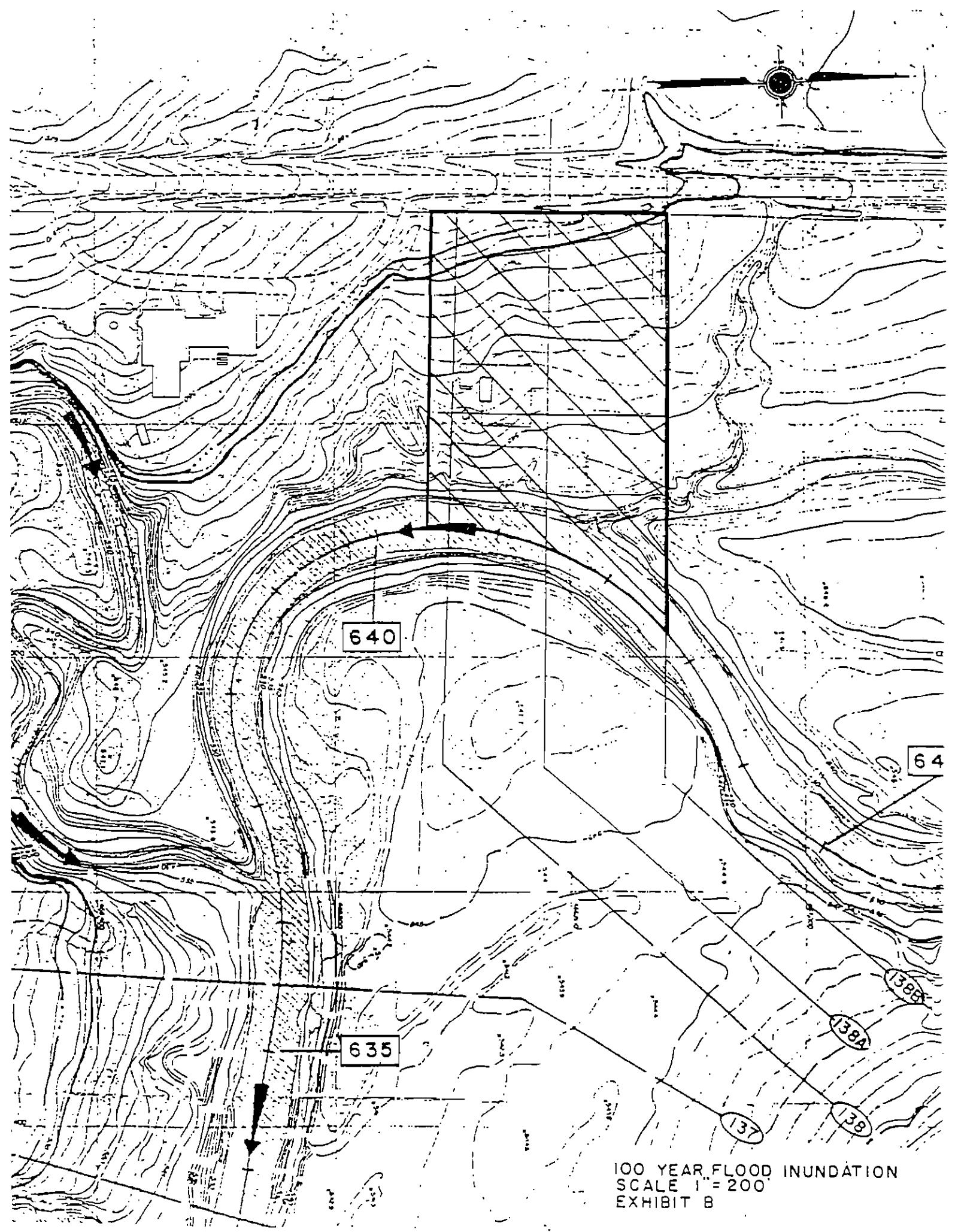


EXHIBIT C
WATER SURFACE PROFILE

100 YEAR WATER SURFACE

WEST END OF BEND

100YR. WATER SURFACE

ELEVATION PROFILE

EXHIBIT C

SCALE

1 FT = 100'

V 1:5

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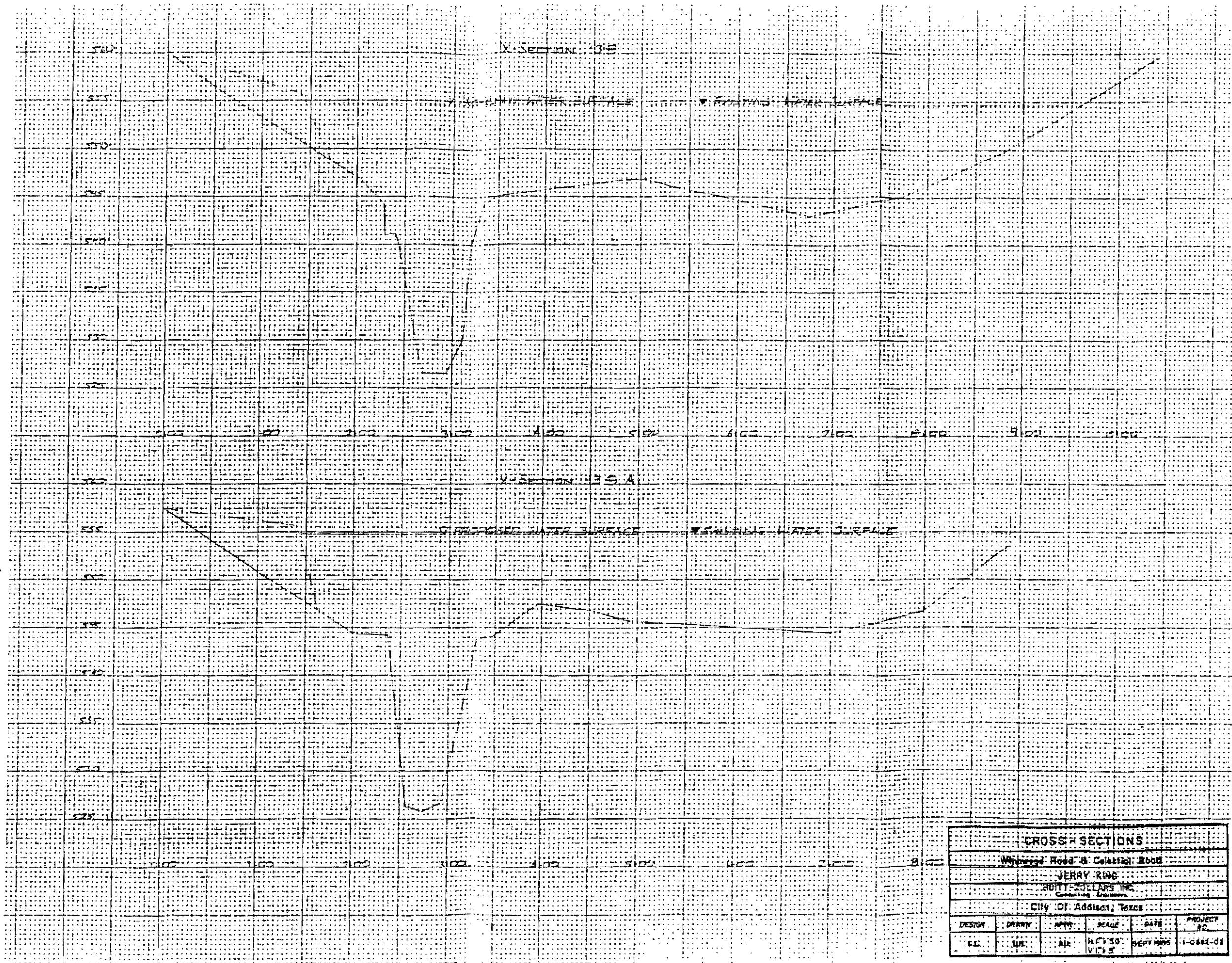
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EXHIBIT D

CROSS-SECTIONS



CROSS-SECTIONS

Journal of Radiation Oncology Biology Physics 1999, Vol. 45, No. 6

ERRY RING

— DOLLARS IN BOSTON

Addison: Taxes: 1

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NAME	TYPE	SCALE	DATE	PROJECT NO.	
				1	2
LIVE	AIR	1:63,360 VTPR	SEP 1966	I-0884-01	

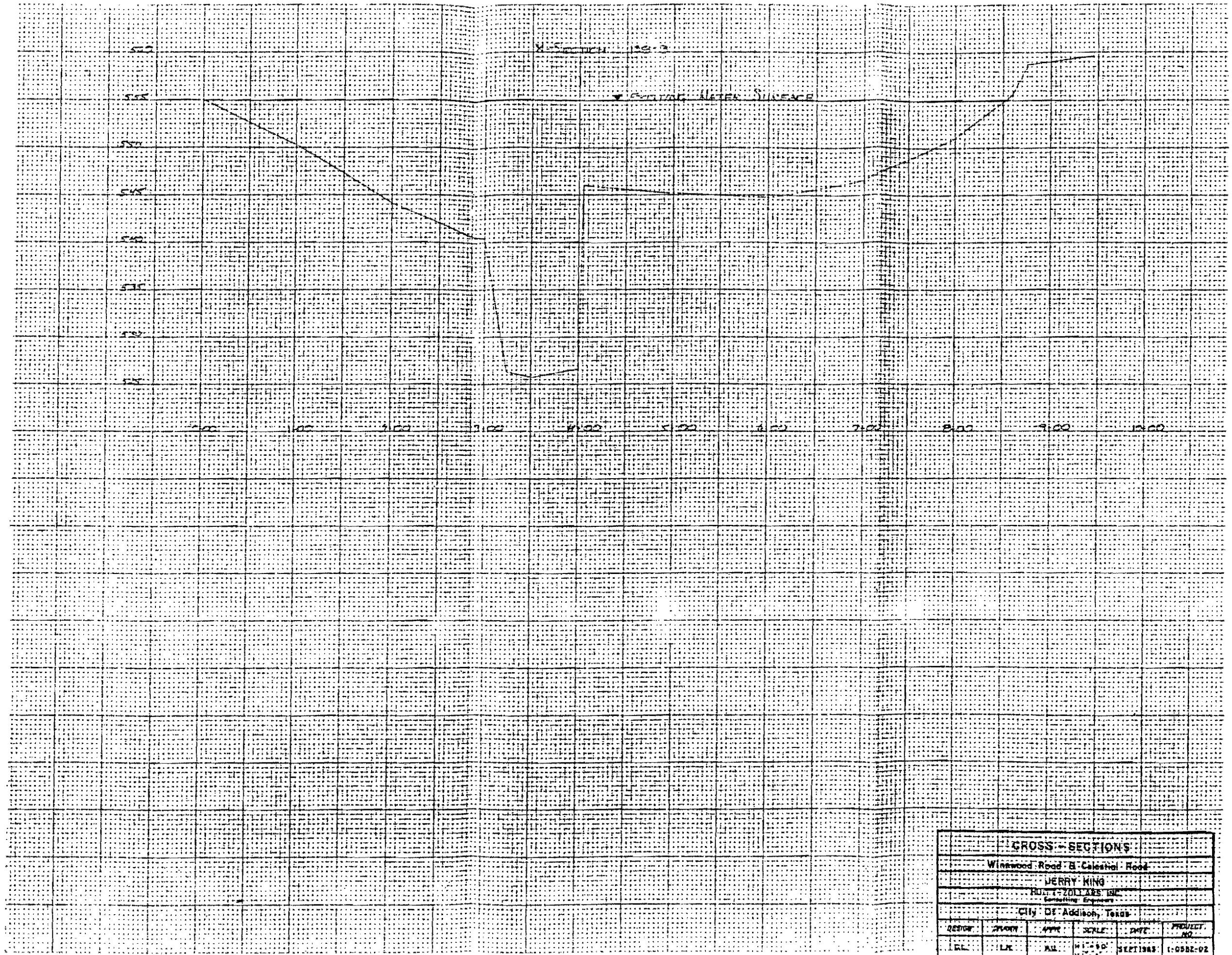


EXHIBIT E

RECLAMATION PLAN

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

September 9, 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

September 9, 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



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METHODOLOGY

RESULTS

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EXHIBIT B: 100-Year Inundation Limits

EXHIBIT C: Water Surface Profile

EXHIBIT D: Cross-Sections

EXHIBIT E: Reclamation Plan

EXHIBIT F: Retaining Wall Typical Section

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
138	554.74	554.72
138A	554.82	554.78
138B	554.95	554.91
140	555.19	555.19
140A	555.56	555.56
140B	555.78	555.78
140C	556.02	556.02
140D	556.26	556.26
141	556.26	556.26
142	556.59	556.59

APPENDICES

APPENDIX I
EXISTING CONDITIONS ANALYSIS

FILE WHITE ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.
JUN-ELEV 367.00, 553.76

EXISTING

FINAL 142.
SECTION 136. 158. 165. 1. 1.
GENERAL 544.
SEGMENT 1. 0 0.12 150. 545.
SEGMENT 2. 0 0.06 236. 544.
SEGMENT 3. 0 0.05 345. 560.
URGE 0. 560. 148. 550. 150. 545.
DATA 150. 545. 203. 540. 207. 535.
ATA 221. 524.5 261. 524.5 268. 539.
ATA 287. 540. 285. 541. 295. 544.
DATA 375. 544. 385. 542. 403. 542.
ATA 412. 543. 560. 545. 580. 550.
ATA 645. 560. 645. 550.

WSP JK. EXS

ENDTABLE
ADEV 371.00. 363. 364. 1. 1.
SECTION 137. 363. 364. 1. 1.
GENERAL 541.
SEGMENT 1. 0 0.12 195. 544.
SEGMENT 2. 0 0.06 395. 541.
SEGMENT 3. 0 0.05 610. 543.
SEGMENT 4. 0 0.04 960. 560.
ATA 0. 560. 9. 555. 23. 535.
ATA 26. 561. 37. 561. 60. 540.
DATA 89. 544. 163. 545. 127. 545.
DATA 195. 544. 218. 540. 228. 525.5
ATA 269. 525.5 285. 540. 305. 541.
ATA 270. 535. 285. 540. 305. 541.
DATA 365. 541. 335. 541. 385. 546.
ATA 420. 546.8 440. 546.8 465. 546.
ATA 612. 543. 610. 543. 716. 545.
DATA 617. 550. 980. 560. 960. 560.

-1.

ENDTABLE
SECTION 138. 80. 110. 1. 1.
GENERAL 545.
SEGMENT 1. 0 0.05 228. 544.
SEGMENT 2. 0 0.045 387. 545.
SEGMENT 3. 0 0.05 675. 543.
SEGMENT 4. 0 0.04 1650. 560.
ATA 0. 560. 25. 558. 70. 555.
ATA 260. 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. 546.8 565. 546.8
DATA 530. 546. 675. 543. 675. 543.
DATA 775. 545. 985. 550. 1650. 560.

To All

ENDTABLE
SECTION 138A. 100. 150. 1. 1.
GENERAL 543.8
SEGMENT 1. 0 0.05 207. 544.3
SEGMENT 2. 0 0.045 334. 543.3
SEGMENT 3. 0 0.05 450. 545.3
SEGMENT 4. 0 0.04 651.1 655.99
DATA 0. 557.5 160. 550.6 269. 544.6
DATA 257. 544.5 257. 526.4 274. 525.5
ATA 252. 545.5 330. 543.5 345. 544.5
DATA 397. 547.5 450. 546.5 461. 545.5
DATA 636. 545.5 700. 541.5 866. 546.5
ATA 651. 553.5 851.1 853.99

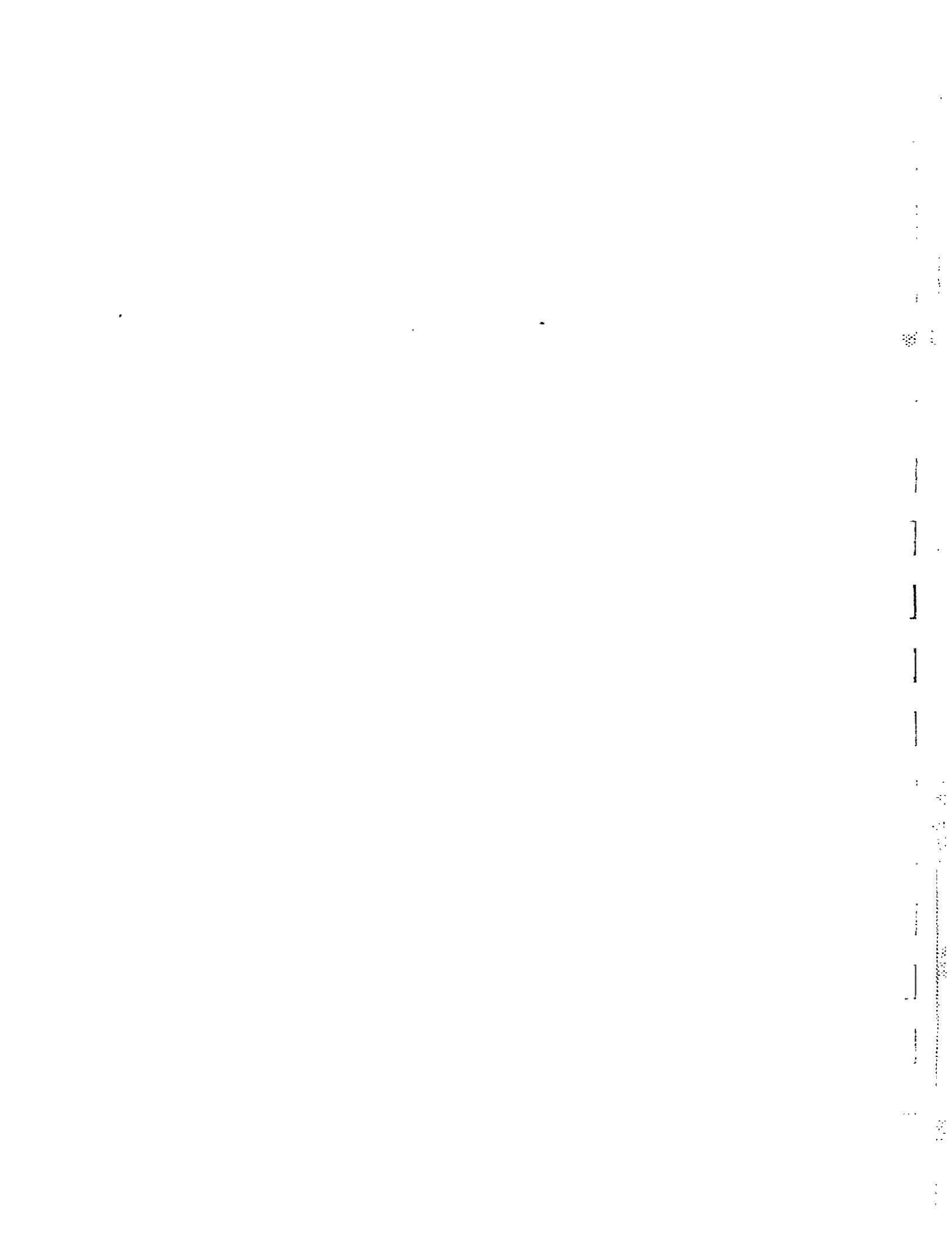
To All

ENDTABLE
SECTION 1000 441 442 443

1.

SEGMENT	1.	C	0.05	455.	541.4
SEGMENT	2.	C	0.045	265.	543.2
JEGMENT	3.	C	0.05	300.	540.4
JEGMENT	4.	C	0.045	485.	545.9
SEGMENT	5.	D	0.05	455.	545.2
SEGMENT	6.	D	0.04	895.	553.5
ATA	9.	C	555.	100.	544.1
DATA	229.	C	541.2	247.	534.7
DATA	260.	C	540.7	360.	540.4
ATA	359.	C	525.6	409.	526.7
ATA	435.	C	545.2	600.	544.7
DATA	600.	C	531.	860.	555.4
ATA	855.	C	559.5		558.6
ENDTABLE					
XSECTION	140.	C	402.	430.	1.
GENERAL	543.				1283+76
SEGMENT	1.	D	0.055	575.	545.
SEGMENT	2.	C	0.049	679.	543.
SEGMENT	3.	D	0.050	920.	565.
ATA	-120.	C	565.		
ATA	-120.	C	560.	0.	545.
DATA	255.	C	545.		270.
ATA	300.	C	545.	360.	547.
ATA	430.	C	547.	575.	545.
DATA	594.	C	530.	610.	528.
ATA	655.	C	540.	670.	543.
ATA	720.	C	550.	740.	554.
DATA	800.	C	532.	920.	555.
ENDTABLE					
SECTION	140A.	C	170.	167.	1.
GENERAL	545.				
SEGMENT	1.	D	0.04	357.	547.
SEGMENT	2.	D	0.055	566.	546.
SEGMENT	3.	C	0.04	648.	549.
SEGMENT	4.	D	0.059	752.	557.
ATA	9.	C	560.	155.	560.
ATA		C		283.	545.
DATA	357.	C	547.	442.	547.
DATA	563.	C	545.	567.	540.
ATA	563.	C	530.	590.	525.
ATA	630.	C	538.	641.	540.
DATA	651.	C	541.	652.	542.
ATA	655.	C	544.	662.	546.
ATA	710.	C	550.	723.	555.
DATA	752.	C	557.		556.
ENDTABLE					
SECTION	140B.	C	55.	102.	1.
GENERAL	545.				
SEGMENT	1.	D	0.04	369.	547.
SEGMENT	2.	D	0.055	686.	548.
JEGMENT	3.	C	0.045	685.	540.
SEGMENT	4.	D	0.05	899.	561.
ATA	9.	C	560.	186.	560.
ATA		C			331.
DATA	363.	C	547.	513.	547.
DATA	565.	C	545.	553.	544.
ATA	660.	C	542.	645.	541.
ATA	665.	C	523.	679.	539.
DATA	665.	C	540.	655.	545.
ATA	741.	C	547.	753.	548.
ATA	766.	C	550.	775.	555.
DATA	869.	C	561.		560.
ENDTABLE					
SECTION	140C.	C	55.	65.	1.

DATA	5	C.	0.065	549.	549.
SEGMENT	3.	C.	0.045	550.	545.
SEGMENT	4.	D.	0.06	551.	555.
ATA	6.0	560.	175.	558.	214.
DATA	363.	547.	445.	546.	535.
DATA	565.	547.	689.	546.	607.
ATA	625.	544.	645.	543.	665.
DATA	672.	541.	675.	540.	682.
DATA	697.	539.	729.	529.	749.
ATA	750.	539.	757.	535.	760.
DATA	763.	545.	767.	545.	778.
DATA	782.	548.	785.	549.	786.
ATA	795.	555.	805.	560.	812.
NOTABLE					
SECTION	1400.	80.	172.		1.
GENERAL	535.			1.	1.
SEGMENT	1.	D.	0.06	582.	535.
SEGMENT	2.	C.	0.045	568.	549.
SEGMENT	3.	D.	0.06	519.	565.
ATA	9.	547.	228.	547.	414.
ATA	645.	548.	535.	543.	547.
DATA	686.	546.	665.	545.	625.
ATA	645.	543.	665.	542.	671.
ATA	675.	549.	682.	535.	695.
DATA	729.	529.	742.	529.	749.
DATA	753.	535.	769.	549.	763.
ATA	765.	546.	776.	547.	760.
DATA	782.	549.	785.	550.	795.
DATA	805.	560.	819.	565.	815.
NOTABLE					
SECTION	141.	106.	100.		1.
GENERAL	545.			1.	1.
SEGMENT	1.	C	0.06	739.	546.
SEGMENT	2.	D	0.045	858.	565.
DATA	9.	565.	6.	560.	19.
DATA	366.	569.	325.	547.	459.
ATA	605.	548.	650.	546.	730.
ATA	735.	545.	757.	538.	775.
DATA	769.	529.	800.	529.	805.
ATA	855.	565.			
NOTABLE					
SECTION	142.	1.	1.		1.
GENERAL	546.			1.	1.
SEGMENT	1.	D	0.06	734.	545.
SEGMENT	2.	C	0.04	944.	565.
DATA	9.	565.	6.	560.	40.
ATA	366.	568.	325.	547.	398.
ATA	569.	549.	570.	549.	539.
DATA	636.	546.	712.	546.	734.
ATA	765.	549.	783.	539.	790.
ATA	834.	529.	852.	535.	839.
DATA	934.	560.	944.	565.	
NOTABLE					



WPSA FOR THE IBM PC

ROCK CREEK AT WINNERS AND CELESTIAL RD. - EAST.

RUN DATE-07.24.05

SECTION 136.	DISTANCE						STATION		
	DOWNSTREAM		UPSTREAM		DRAINAGE		'W. VALUE BY SEGMENT		
	CHANNEL	VALLEY	CHANNEL	VALLEY	AREA, SQ. MI		NO. 1	NO. 2	NO. 3
						NO. VALUES			
	ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.				
	550.00	646849.3	644471.6	1293321.9	11831.25				
	549.00	611689.6	568353.8	1180048.9	10296.98				
	548.00	575498.9	493043.4	1075542.9	9413.99				
	547.00	539723.7	430221.8	965945.5	8636.99				
	546.00	505426.2	376733.5	876159.9	7807.69				
	545.00	471451.6	313466.3	784517.3	7130.69				
	544.00	439909.7	263347.9	702356.7	6521.99				
	543.00	407047.3	216940.9	620067.3	5869.45				
	542.00	376225.4	174338.8	556654.3	5253.26				
	541.00	346565.6	137711.4	484217.9	4671.11				
	540.00	317419.6	103998.4	421418.2	4108.59				
	539.00	289759.1	78948.5	366738.6	3589.56				
	538.00	262933.8	53281.3	316275.2	3094.56				
	537.00	237699.9	32556.9	270627.9	2623.56				
	536.00	212519.6	18402.8	230921.8	2193.66				
	535.00	188899.6	7856.9	197735.6	1796.19				
	534.00	165199.4	1549.5	170748.9	1434.55				
	533.00	143366.3	526.9	153733.3	1269.22				
	532.00	130285.2	110.1	138395.2	1145.23				
	531.00	124245.1	.0	124245.1	1044.67				
	530.00	111196.3	.0	111196.3	957.91				
	529.00	98155.3	.0	98155.3	875.25				
	528.00	85322.6	.9	85322.6	795.51				
	527.00	74469.3	.9	74469.3	718.37				
	526.00	63753.1	.9	63753.1	643.69				
	525.00	53336.9	.9	53336.9	571.37				
	524.00	45021.4	.9	45021.4	503.62				
	523.00	36962.4	.9	36962.4	437.37				
	522.00	29663.4	.9	29663.4	374.79				
	521.00	23157.5	.9	23157.5	315.48				
	520.00	17444.5	.9	17444.5	259.51				
	519.00	12409.3	.9	12409.3	206.50				
	518.00	8169.4	.9	8169.4	156.93				
	517.00	4610.5	.9	4610.5	108.21				
	516.00	1966.1	.9	1966.1	62.57				
	515.00	319.9	.9	319.9	20.34				
	514.00	.0	.9	.9	.09				

ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.

RUN DATE-07 24 85

PAGE 2

SECTION 157.	DISTANCE						STATION=					
	DOWNSTREAM		UPSTREAM		GRAINAGE		'N' VALUE BY SEGMENTS				END AREA	
	CHANNEL 158.	VALLEY 165.	CHANNEL 363.	VALLEY 364.	AREA, AC MI 1.00	1.00	NO. 1 .120	NO. 2 .060	NO. 3 .050	NO. 4 .040	NO. 5 .030	
					KD VALUES							
	EL ELEVATION	CHANNEL	VALLEY		TOTAL							
	560.00	563416.6	1375066.9		1359265.9							
	559.00	527584.6	1240666.9		1768451.9							
	558.00	492054.7	1083997.9		1561952.9							
	557.00	458116.9	952962.4		1411989.9							
	556.00	424544.2	826396.6		1244931.9							
	555.00	392598.5	703159.3		1055755.9							
	554.00	361186.4	590636.1		851822.5							
	553.00	331009.3	489095.9		820165.8							
	552.00	302030.9	397948.4		699979.3							
	551.00	273741.3	312789.3		595521.6							
	550.00	247039.9	241345.9		495584.6							
	549.00	221249.5	177693.8		399142.4							
	548.00	196370.1	122424.1		318794.2							
	547.00	173686.6	81167.5		254194.1							
	546.00	156639.5	48978.5		199717.9							
	545.00	139765.4	26172.1		155877.5							
	544.00	118655.6	21535.9		132851.6							
	543.00	95241.1	17058.9		112340.9							
	542.00	81520.3	13151.8		94572.1							
	541.00	65969.4	10228.1		75237.5							
	540.00	68323.7	8393.7		76663.4							
	539.00	69639.1	6575.9		67256.9							
	538.00	52398.1	5813.2		57911.3							
	537.00	45777.7	3670.9		49448.6							
	536.00	39330.6	2558.4		41953.1							
	535.00	33494.3	1679.4		35173.7							
	534.00	27837.9	939.2		26828.1							
	533.00	22495.3	478.8		22974.1							
	532.00	17653.8	145.9		17802.9							
	531.00	13344.6	2.6		13347.1							
	530.00	9555.5	.9		9555.5							
	529.00	6288.9	.9		6288.9							
	528.00	3565.7	.9		3565.7							
	527.00	1560.9	.9		1560.9							
	526.00	253.9	.9		253.9							
	525.00	.9	.9		.9							

GPS	VELOCITY	ELEV.	GPS	VELOCITY	ELEV.	GPS	VELOCITY	ELEV.
37100.00	3.96	554.36						

ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.

RUN DATE-07 24 85

PAGE 3

SECTION 136.	DISTANCE				STATION					
	DOWNSTREAM		UPSTREAM		DRAINAGE		'N' VALUE BY SEGMENTS			
	CHANNEL 363.	VALLEY 364.	CHANNEL 50.	VALLEY 110.	AREA, SQ. MI 1.00	.050	No. 1 .045	No. 2 .050	No. 3 .040	No. 4 .040
KO VALUES										
	ELeVELiON	CHANNEL	VALLEY	TOTAL			END AREA			
	559.00	815845.8	1337897.9	2157740.9			sq. ft.			
	559.00	766586.2	1165262.9	1332249.9			13387.55			
	558.00	715993.4	1009623.9	1723815.9			12353.50			
	557.00	665470.9	858586.9	1524656.9			11357.69			
	556.00	617316.9	728000.6	1345317.9			10371.99			
	555.00	563926.6	603598.3	1172325.9			9436.68			
	554.00	524323.4	493626.5	1017659.9			8517.64			
	553.00	480443.7	396586.3	877928.9			7636.53			
	552.00	437568.7	386849.8	744409.6			6792.42			
	551.00	396376.6	233013.8	629999.5			5968.63			
	550.00	357637.6	168252.4	526949.4			5132.31			
	549.00	319729.4	112556.7	432286.1			4443.22			
	548.00	284652.9	71353.9	3554465.9			3721.38			
	547.00	245853.7	36601.6	262451.3			3059.78			
	546.00	217126.6	16327.7	234653.3			2426.19			
	545.00	186449.5	5397.4	191637.7			1886.59			
	544.00	168657.3	1755.1	169812.3			1449.98			
	543.00	149034.5	25.3	145659.8			1210.16			
	542.00	130137.2	0	130137.2			1032.87			
	541.00	119134.7	0	119134.7			926.91			
	540.00	106529.2	0	106529.2			833.89			
	539.00	92863.1	0	92863.1			753.63			
	538.00	79257.1	0	79257.1			606.65			
	537.00	66817.8	0	66817.8			537.66			
	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			346.95			
	533.00	27252.9	0	27252.9			288.96			
	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			131.73			
	529.00	4568.9	0	4568.9			86.69			
	528.00	1869.2	0	1869.2			47.41			
	527.00	292.9	0	292.9			14.29			
	526.50	0	0	0			.96			
	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	
	37100.00	4.48	554.74							

ROCK CREEK AT WINFIELD AND CELESTIAL RD. - EXIST.

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ROCK CREEK AT WINNWOOD AND CELESTIAL RD. - EXIST.

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SECTION 1386.	DISTANCE						STATION=			
	CHANNEL 100.	DOWNSTREAM VALLEY 150.	CHANNEL 442.	UPSTREAM VALLEY 356.	DRAINAGE AREA, SQ. MI 1.00	NO. 1 .050	'W' VALUE BY SEGMENTS			
							NO. 2 .050	NO. 3 .045	NO. 4 .045	END AREA
					KD VALUES					
		ELEVATION	CHANNEL	VALLEY	TOTAL					'S' FT.
		550.00	1173915.0	1564582.0	2578417.0					13137.25
		553.00	1166836.0	1324738.0	2433594.0					12311.90
		556.00	1044445.0	1147362.0	2191267.0					11429.84
		557.00	962254.2	978996.0	1961261.0					10556.93
		556.00	921246.4	921196.0	1742353.0					9536.42
		555.00	861973.0	678927.5	1549961.0					8838.49
		554.00	804398.5	555341.7	1359730.0					8097.72
		553.00	747930.2	444163.0	1192063.0					7135.97
		552.00	694191.3	392356.6	1046548.0					6438.28
		551.00	641570.5	268777.1	910347.8					5785.22
		550.00	590627.0	197522.0	788149.0					5067.76
		549.00	541967.0	140569.5	682497.5					4369.59
		548.00	494462.0	98313.6	584796.6					3737.51
		547.00	449206.3	58108.0	502347.0					3160.45
		546.00	406659.1	29522.4	435591.4					2647.67
		545.00	366318.0	14280.2	380559.0					2244.72
		544.00	328271.2	7388.0	335660.0					1885.82
		543.00	293432.3	3805.1	295869.0					1789.74
		542.00	259458.5	1416.0	260874.5					1607.63
		541.00	228295.0	306.0	228512.0					1444.15
		540.00	199443.6	.0	199443.6					1239.19
		539.00	174481.5	.0	174481.5					1173.86
		538.00	151518.4	.0	151518.4					1056.15
		537.00	130661.2	.0	130661.2					944.50
		536.00	110340.5	.0	110340.5					839.83
		535.00	92164.1	.0	92164.1					742.03
		534.00	75427.7	.0	75427.7					649.51
		533.00	59975.7	.0	59975.7					559.40
		532.00	45151.4	.0	45151.4					471.56
		531.00	33797.7	.0	33797.7					385.60
		530.00	22366.5	.0	22366.5					301.43
		529.00	13264.0	.0	13264.0					213.46
		528.00	6674.1	.0	6674.1					159.35
		527.00	1727.0	.0	1727.0					61.22
		526.00	14.1	.0	14.1					1.93
		525.00	.0	.0	.0					.00

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.22	554.35						

ROCK CREEK AT WILMINGTON AND DELAWARE R.R. - EXIST.

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ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIST.

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SECTION 140H.	DISTANCE				STATION			
	CHANNEL 402.	DOWNSTREAM VALLEY 430.	UPSTREAM		DRAINAGE AREA, SQ. MI	'N' VALUE BY SEGMENTS		
			CHANNEL 170.	VALLEY 167.		.040	.065	.040
			KD VALUES				END AREA	
			ELEVATION	CHANNEL	VALLEY	TOTAL	SQ. FT.	
			560.00	762361.3	926090.5	1703392.0	8746.00	
			553.00	736433.0	814869.5	1551094.0	6152.73	
			556.00	631063.8	766836.5	1397160.0	7561.36	
			557.00	647261.5	608559.4	1255221.0	6978.61	
			556.00	694228.2	516913.4	1121142.0	6402.73	
			555.00	582703.1	438442.8	996145.0	5846.97	
			554.00	522335.4	355324.2	878159.5	5297.84	
			553.00	482739.4	282107.1	764846.5	4755.27	
			552.00	445129.8	219699.5	664829.3	4225.71	
			551.00	408262.9	161771.3	570064.3	3701.03	
			550.00	372546.2	110551.7	483107.6	3183.57	
			549.00	336651.3	70718.7	409369.9	2677.53	
			548.00	305396.2	38671.2	344551.4	2179.90	
			547.00	274295.3	15246.5	289641.6	1713.10	
			546.00	245058.8	5521.4	250589.3	1396.27	
			545.00	2206593.6	776.1	221363.7	1170.00	
			544.00	195782.7	444.3	196227.0	1066.97	
			543.00	1711949.2	257.0	172216.2	973.56	
			542.00	149388.8	100.0	149409.7	884.81	
			541.00	127689.9	18.9	127906.8	798.50	
			540.00	107919.2	0.0	107919.2	716.00	
			539.00	90581.3	0.0	90581.3	636.00	
			538.00	74536.6	0.0	74536.6	558.00	
			537.00	59811.3	0.0	59811.3	482.00	
			536.00	46528.4	0.0	46528.4	406.12	
			535.00	34748.8	0.0	34748.8	336.27	
			534.00	24846.9	0.0	24846.9	267.55	
			533.00	16633.9	0.0	16633.9	203.73	
			532.00	9925.5	0.0	9925.5	144.60	
			531.00	4832.5	0.0	4832.5	90.40	
			530.00	1439.8	0.0	1439.8	41.17	
			529.00	0.0	0.0	0.0	0.00	
	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY
	37100.00	6.03	535.56					

ROCK CREEK AT WILLOWWOOD AND CELESTIAL RD. - EXIST.

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SECTION 140B.	DISTANCE				STATION				'IN' VALUE BY SEGMENTS	
	DOWNSTREAM		UPSTREAM		DRAINAGE					
	CHANNEL 176.	VALLEY 167.	CHANNEL 65.	VALLEY 162.	AREA, SQ MI 1.00	.044	NO. 1 .065	NO. 2 .045	NO. 3 .039	NO. 4 .039
RD VALUES										
	EL ELEVATION	CHANNEL	VALLEY	TOTAL			SD. FT.			
	551.00	585858.8	986730.5	1429590.0			3252.56			
	550.00	530166.1	879754.6	1429945.0			8503.37			
	549.00	515582.6	894855.1	1329248.0			7856.74			
	548.00	481173.2	692666.6	1175160.0			7264.44			
	547.00	448209.3	690355.1	1043555.0			6684.08			
	546.00	415963.4	507176.6	923110.0			6110.25			
	545.00	384857.4	422682.1	807539.5			5547.59			
	544.00	354727.9	344765.1	659433.1			4992.74			
	543.00	325229.5	271073.8	596343.3			4443.10			
	542.00	297351.8	249937.5	5046369.3			3905.94			
	541.00	270693.5	151590.6	421639.1			3373.45			
	540.00	243784.9	101627.0	344811.0			2843.00			
	539.00	218972.7	62704.5	281677.3			2337.60			
	538.00	195099.2	32194.4	227224.6			1839.36			
	537.00	172148.1	10852.5	182910.7			1385.42			
	536.00	150466.3	4206.1	154537.4			1073.14			
	535.00	129868.8	2278.7	132147.5			905.99			
	534.00	110863.2	1375.5	112268.7			804.17			
	533.00	92811.7	692.8	93594.5			708.38			
	532.00	76407.3	224.2	76261.5			618.33			
	531.00	60553.8	29.2	60583.0			532.00			
	530.00	46625.9	.0	46625.9			453.59			
	529.00	36623.4	.0	36623.4			379.43			
	528.00	27971.8	.0	27971.8			311.21			
	527.00	20682.9	.0	20682.9			243.85			
	526.00	14516.3	.0	14516.3			192.69			
	525.00	9573.9	.0	9573.9			142.24			
	524.00	5837.9	.0	5837.9			98.47			
	523.00	3195.8	.0	3195.8			62.55			
	522.00	1450.5	.0	1450.5			34.75			
	521.00	483.3	.0	483.3			15.21			
	520.00	81.0	.0	81.0			3.88			
	519.00	.0	.0	.0			.00			
	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	
	37100.00	6.10	555.78							

ROCK CREEK AT WINWOOD AND CELESTIAL RD. - EXIT.

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SECTION 1400.	DISTANCE						STATION=				
	DOWNSTREAM		UPSTREAM		DRAINAGE		'N' VALUE BY SEGMENTS				
	CHANNEL 55.	VALLEY 102.	CHANNEL 55.	VALLEY 55.	AREA, SQ. MI 1.00		No. 1 .040	No. 2 .065	No. 3 .045	0	
RD VALUES											
	ELEVATION	CHANNEL	VALLEY	TOTAL							
	563.00	960442.3	1739970.9	2700413.0							
	564.00	913220.9	1546663.6	2453884.0							
	565.00	865352.2	1357061.6	2223414.0							
	566.00	820635.8	1182275.6	2003175.0							
	567.00	776162.1	1062222.0	1828384.0							
	568.00	732866.2	969244.0	1721763.0							
	569.00	689958.2	891818.7	1581777.0							
	570.00	648144.2	771424.3	1419569.0							
	571.00	607750.3	660918.1	1268668.0							
	572.00	568062.9	555299.0	1123032.0							
	573.00	523721.7	459338.7	989060.4							
	574.00	482438.4	376954.2	862392.6							
	575.00	455553.8	287620.7	743474.6							
	576.00	421058.7	217756.6	635815.3							
	577.00	395551.6	153374.4	540325.0							
	578.00	353576.4	97214.3	451059.7							
	579.00	322448.4	55385.1	377633.4							
	580.00	293035.2	27503.2	326918.4							
	581.00	262646.9	12892.4	275539.3							
	582.00	234651.4	8568.4	243219.8							
	583.00	208597.8	4728.5	213236.3							
	584.00	184476.4	2123.2	186559.5							
	585.00	162112.4	734.5	162847.9							
	586.00	140891.4	164.2	141055.6							
	587.00	120635.9	29.9	120655.8							
	588.00	102154.1	.0	102154.1							
	589.00	85797.8	.0	85797.8							
	590.00	70651.2	.0	70651.2							
	591.00	56741.3	.0	56741.3							
	592.00	44163.8	.0	44163.8							
	593.00	33014.2	.0	33014.2							
	594.00	23529.5	.0	23529.5							
	595.00	15666.7	.0	15666.7							
	596.00	9122.3	.0	9122.3							
	597.00	4223.5	.0	4223.5							
	598.00	1075.6	.0	1075.6							
	599.00	.0	.0	.0							

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	5.42	536.02						

DATA	292.	525.6	399.	546.8	389.	544.1
DATA	397.	517.5	450.	546.8	491.	546.7
DATA	699.	545.1	700.	544.5	699.	546.7
DATA	891.	553.6	891.1	555.0		

ESTABLE						
SECTION	1368.	442.	399.			1.
GENERAL	549.			1.	1.	
SEGMENT	1.	0	0.05	155.	555.95	
SEGMENT	2.	0	0.025	160.	546.50	
SEGMENT	3.	0	0.032	393.	540.1	
SEGMENT	4.	0	0.045	485.	545.9	
SEGMENT	5.	0	0.09	495.	545.2	
SEGMENT	6.	0	0.049	895.	553.5	
DATA	0.	555.95	155.	555.95	155.	551.95
DATA	188.	551.95	160.	546.50		
DATA	299.	544.1				
DATA	399.	541.2	383.	534.7	265.	546.2
DATA	499.	540.7	399.	544.4	324.	526.4
DATA	599.	525.8	498.	525.7	485.	545.9
DATA	695.	545.2	699.	544.7	700.	546.5
DATA	899.	551.	890.	555.4	875.	553.6
DATA	995.	553.5				

ESTABLE						
SECTION	140.	402.	430.			1.
GENERAL	543.			1.	1.	
SEGMENT	1.	0	0.055	575.	545.	
SEGMENT	2.	0	0.040	570.	540.	
SEGMENT	3.	0	0.060	920.	565.	
DATA	-129.	565.				
DATA	-129.	560.	0.	555.	139.	548.
DATA	255.	545.			270.	544.
DATA	399.	546.	360.	547.	390.	547.
DATA	499.	547.	575.	545.	570.	549.
DATA	594.	560.	610.	520.	640.	520.
DATA	696.	540.	670.	540.	650.	540.
DATA	720.	550.	740.	554.	750.	550.
DATA	899.	562.	939.	565.		

ESTABLE						
SECTION	1404.	178.	157.			1.
GENERAL	545.			1.	1.	
SEGMENT	1.	0	0.04	357.	547.	
SEGMENT	2.	0	0.055	560.	546.	
SEGMENT	3.	0	0.04	548.	540.	
SEGMENT	4.	0	0.060	752.	557.	
DATA	0.	560.	115.	560.	200.	545.
DATA			280.	545.	360.	546.
DATA	357.	547.	410.	547.	540.	546.
DATA	563.	545.	567.	540.	570.	535.
DATA	563.	520.	590.	520.	620.	520.
DATA	699.	520.	641.	535.	640.	540.
DATA	851.	541.	852.	542.	655.	540.
DATA	856.	544.	852.	545.	690.	545.
DATA	710.	550.	720.	555.	735.	550.
DATA	752.	557.				

ESTABLE						
SECTION	1406.	55.	192.			1.
GENERAL	545.			1.	1.	
SEGMENT	1.	0	0.04	389.	547.	
SEGMENT	2	0	0.055	560.	540.	
SEGMENT	3	0	0.065	565.	540.	
SEGMENT	4	0	0.08	699.	551.	
DATA	0.	550.	105.	550.	270.	545.
DATA					321.	545.
DATA	520.	547.	510.	547.	548.	545.
DATA	565.	545.	555.	544.	557.	543.

DATA	668.	529.	678.	538.	583.	535.
DATA	685.	540.	693.	545.	732.	546.
DATA	712.	547.	758.	549.	752.	549.
DATA	765.	550.	775.	555.	793.	550.
DATA	809.	561.				

DATA	140.	55.	85.			1.
GENERAL	539.			1.	1.	
SEGMENT	1.	0	0.04	399.	547.	
SEGMENT	2.	0	0.045	675.	540.	
SEGMENT	3.	0	0.045	765.	545.	
SEGMENT	4.	0	0.08	812.	555.	
DATA	9.0	560.	175.	560.	214.	547.
DATA	399.	547.	445.	548.	535.	546.
DATA	565.	547.	690.	546.	607.	545.
DATA	625.	544.	645.	543.	665.	542.
DATA	672.	541.	675.	540.	692.	535.
DATA	697.	539.	720.	529.	743.	529.
DATA	750.	530.	757.	535.	760.	540.
DATA	765.	545.	767.	546.	779.	547.
DATA	782.	548.	785.	549.	786.	550.
DATA	795.	555.	805.	550.	812.	555.

DATA	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.	555.	
DATA	9.	547.	228.	547.	414.	547.
DATA	445.	548.	535.	548.	565.	547.
DATA	600.	546.	695.	545.	625.	544.
DATA	645.	542.	665.	542.	671.	541.
DATA	675.	540.	682.	535.	695.	539.
DATA	720.	529.	742.	529.	749.	536.
DATA	755.	535.	780.	540.	782.	545.
DATA	765.	545.	776.	547.	780.	548.
DATA	782.	549.	785.	550.	795.	555.
DATA	805.	560.	810.	555.		

DATA	141.	106	193.			1.	1277+16
GENERAL	545.			1.	1.		
SEGMENT	1.	0	0.05	739.	545.		
SEGMENT	2.	0	0.045	850.	565.		
DATA	9.	565.	9.	568.	10.	553.	
DATA	399.	560.	525.	547.	460.	548.	
DATA	605.	548.	650.	546.	700.	546.	
DATA	735.	545.	757.	539.	775.	530.	
DATA	780.	529.	800.	529.	805.	530.	
DATA	850.	565.					

DATA	142.	1.	1.			1.	1299+63
GENERAL	545.			1.	1.		
SEGMENT	1.	0	0.05	734.	545.		
SEGMENT	2.	0	0.04	944.	565.		
DATA	9.	565.	9.	568.	40.	553.	
DATA	399.	560.	325.	547.	390.	547.	
DATA	500.	549.	570.	549.	590.	547.	
DATA	650.	545.	712.	546.	734.	545.	
DATA	765.	540.	763.	539.	790.	529.	
DATA	834.	529.	852.	535.	880.	554.	
DATA	934.	560.	944.	565.			

DATA

SECTION 100.	DISTANCE						STATION=	
	DOWNSTREAM		UPSTREAM		GRADELINE			
	CHANNEL 360.	VALLEY 364.	CHANNEL 360.	VALLEY 364.	AREA, SQ MI 1.00	%		
	SO VALUES						SO AREA	
	ELEVATION	0149851	VALLEY	7074L		.92	FT.	
	560.00	819849.8	1326454.8	2146298.8		12877.15		
	559.00	766996.2	1157789.8	1924775.8		11856.24		
	558.00	715999.4	1006896.8	1722898.8		10944.24		
	557.00	665470.9	860173.1	1525544.8		9969.13		
	556.00	617316.8	732218.6	1358636.8		9118.44		
	555.00	569926.8	611651.8	1181578.8		8351.47		
	554.00	524329.4	500554.8	1028978.8		7477.22		
	553.00	489449.7	405147.4	885596.8		6631.45		
	552.00	437568.7	314227.3	751795.1		5916.63		
	551.00	396976.8	232284.7	635261.5		5163.15		
	550.00	357697.8	171511.1	529200.1		4437.22		
	549.00	319729.4	113946.6	439635.8		3729.85		
	548.00	284052.8	72456.5	356100.4		3059.79		
	547.00	249859.7	39933.9	263792.7		2405.10		
	546.00	217125.5	17800.2	204163.8		1858.99		
	545.00	186440.3	5414.9	191254.3		1449.98		
	544.00	160057.3	1758.2	169815.5		1210.16		
	543.00	149824.5	25.0	149859.8		1032.87		
	542.00	139137.2	.0	139137.2		928.91		
	541.00	119134.7	.0	119134.7		833.89		
	540.00	106529.2	.0	106529.2		753.63		
	539.00	92989.1	.0	92989.1		678.63		
	538.00	79257.1	.0	79257.1		606.55		
	537.00	66817.8	.0	66817.8		537.68		
	536.00	55417.3	.0	55417.3		471.32		
	535.00	45943.4	.0	45943.4		397.82		
	534.00	35636.8	.0	35636.8		346.96		
	533.00	27252.9	.0	27252.9		285.99		
	532.00	19924.8	.0	19924.8		232.74		
	531.00	13632.9	.0	13632.9		181.37		
	530.00	8995.2	.0	8995.2		131.78		
	529.00	4568.4	.0	4568.4		85.69		
	528.00	1269.2	.0	1269.2		47.41		
	527.00	292.9	.0	292.9		14.29		
	526.50	.0	.0	.0		.00		
	CF8	VELOCITY	ELEV.	CF8	VELOCITY	ELEV.		
37100.00	4.61	554.72						
	4.48	554.74						

EX.

SECTION 139A.	DISTANCE				AREA, SQ MI 1.00	NO. 1 .050	STATISTICS							
	CHANNEL 80.	VALLEY 110.	CHANNEL 100.	VALLEY 100.			'W' VALUE BY SEPARATE END AREA							
							NO. 2 .025	NO. 3 .042	NO. 4 .065	NO. 5 .090	NO. 6 .144			
	ELEVATION	CHANNEL	VALLEY	TOTAL			'W'	'W'	'W'	'W'	'W'			
							ft.	ft.	ft.	ft.	ft.			
	559.00	659462.4	1297851.0	1957315.0			18224.42							
	557.00	618331.0	1120524.0	1730855.0			9367.48							
	556.00	577942.0	952175.4	1530118.0			8554.50							
	555.00	530659.0	797295.6	1335955.0			7699.18							
	554.00	500530.6	659200.0	1155340.0			7470.17							
	553.00	463160.0	523237.0	995405.0			6335.63							
	552.00	427636.2	414592.0	842229.0			5619.28							
	551.00	392050.0	313797.2	706565.0			4912.90							
	550.00	359211.0	224457.0	583669.0			4221.46							
	549.00	327116.0	151850.7	472767.0			3546.91							
	548.00	295785.5	87519.5	383384.0			2880.74							
	547.00	265953.0	41647.7	307501.0			2249.24							
	546.00	237984.7	16141.6	253706.0			1727.05							
	545.00	210439.6	2762.0	212221.0			1345.67							
	544.00	184658.5	4.0	184572.0			1139.35							
	543.00	164371.4	0.0	164371.4			1041.20							
	542.00	145729.0	0.0	145729.0			952.20							
	541.00	128395.7	0.0	128395.7			868.30							
	540.00	112014.5	0.0	112014.5			785.71							
	539.00	96691.0	0.0	96691.0			700.24							
	538.00	83163.0	0.0	83163.0			632.77							
	537.00	70431.4	0.0	70431.4			552.22							
	536.00	58829.1	0.0	58829.1			494.96							
	535.00	48307.0	0.0	48307.0			429.23							
	534.00	39241.0	0.0	39241.0			357.73							
	533.00	30306.7	0.0	30306.7			299.00							
	532.00	22965.0	0.0	22965.0			254.60							
	531.00	16550.7	0.0	16550.7			200.17							
	530.00	11044.7	0.0	11044.7			154.71							
	529.00	6540.0	0.0	6540.0			109.97							
	528.00	3244.0	0.0	3244.0			68.36							
	527.00	855.7	0.0	855.7			39.00							
	526.00	7.2	0.0	7.2			1.92							
	525.00	0.0	0.0	0.0			.99							
	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.					
	37100.00	4.86	554.77	-	-	-	-	-	-	-	-	-		
EX.		4.56	554.32											

- 2 : 2 -

SECTION 1000.	DISTANCE				AREA, SQ. MI	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	STATION	
	DOWNSTREAM		UPSTREAM									NO. VALUE BY SLOPES	
	CHANNEL 100.	VALLEY 100.	CHANNEL 400.	VALLEY 350.	1.00	.950	.925	.942	.945	.950	.954	END AREA	
NO. VALUES													
	ELEVATION	CHANNEL	VALLEY		TOTAL							SQ. FT.	
	564.00	985971.7	1657663.0		2643654.0							12436.54	
	559.00	935979.9	1479299.0		2495289.0							11551.29	
	559.00	884559.9	1285852.0		2170441.0							10669.34	
	557.00	835791.7	1113953.0		1949550.0							9800.33	
	556.00	787633.1	953946.0		1741579.0							8981.34	
	555.00	744792.4	811754.0		1552547.0							8239.31	
	554.00	695136.3	682736.0		1377073.0							7532.35	
	553.00	654269.9	562592.0		1212773.0							6849.17	
	552.00	607382.6	499422.7		1066325.0							6189.52	
	551.00	555112.1	365145.4		928257.5							5541.45	
	550.00	524086.9	278571.0		802758.2							4910.78	
	549.00	494653.1	208430.0		683926.4							4380.28	
	548.00	445999.5	145853.0		581952.0							3719.31	
	547.00	408375.0	94967.7		508742.7							3157.99	
	546.00	373783.1	61992.7		435775.0							2646.99	
	545.00	344359.2	39649.0		369069.0							2244.72	
	544.00	320578.0	29510.7		335209.0							1985.82	
	543.00	278562.9	17546.5		256109.4							1703.74	
	542.00	249369.0	10682.2		206042.6							1607.62	
	541.00	221547.6	6586.3		170493.0							1444.16	
	540.00	195324.7	4410.1		139737.0							1299.10	
	539.00	172123.1	2526.9		114620.0							1179.86	
	538.00	150304.0	1301.1		101605.1							1056.16	
	537.00	129565.0	510.2		100115.2							944.50	
	536.00	110221.1	120.1		110049.2							839.83	
	535.00	92151.6	10.1		92165.0							742.00	
	534.00	75427.7	0.0		75427.7							649.51	
	533.00	59975.7	0.0		59975.7							559.40	
	532.00	46161.4	0.0		46161.4							471.56	
	531.00	32797.7	0.0		32797.7							395.69	
	530.00	22056.5	0.0		22056.5							301.49	
	529.00	13864.0	0.0		13864.0							219.46	
	528.00	6674.1	0.0		6674.1							139.35	
	527.00	1727.0	0.0		1727.0							61.22	
	526.00	14.1	0.0		14.1							1.99	
	525.00	0.0	0.0		0.0							0.00	

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	4.54	554.00						

EX. 4.22 552.15

SECTION 140.	DISTANCE			STATION=1383+70						
	DOWNSTREAM 442.	CHANNEL VALLEY	UPSTREAM 442.	CHANNEL VALLEY	DOWNSTREAM AREA, SQ MI	'H' VALUE BY SEGMENTS				
						NO. 1	NO. 2	NO. 3	NO. 4	NO. 5
NO VALUES										
	EL ELEVATION	CHANNEL	VALLEY		TOTAL		'S'	FT.		
	563.00	1085691.0	1755675.0	2841366.0	16313.50					
	564.00	1090039.0	1563765.0	2999124.0	15289.17					
	565.00	974622.5	1394942.0	2371465.0	14265.50					
	566.00	923333.5	1224922.0	2148255.0	13256.54					
	567.00	871755.4	1071009.0	1942045.0	12272.79					
	568.00	821050.5	930469.4	1751520.0	11319.80					
	569.00	771555.0	809666.0	1581322.0	10379.34					
	570.00	723741.1	704589.0	1424159.0	9495.84					
	571.00	676439.5	599251.0	1275551.0	8543.79					
	572.00	631094.5	508919.0	1133924.0	7682.10					
	573.00	585417.4	433408.1	1006996.0	7064.12					
	574.00	543494.2	346552.7	890176.0	6329.82					
	575.00	501850.1	276226.1	778075.1	5620.21					
	576.00	461850.7	218902.4	671061.1	4927.97					
	577.00	422455.1	156325.2	578782.6	4271.54					
	578.00	384632.0	107446.0	492144.0	3638.28					
	579.00	349245.0	65759.0	413964.0	3069.66					
	580.00	313709.7	36475.0	358214.0	2421.79					
	581.00	280524.7	17869.0	297594.0	1909.39					
	582.00	248522.0	5110.0	254732.7	1494.52					
	583.00	218629.1	2531.7	221228.7	1289.76					
	584.00	191264.5	965.0	192220.0	1120.29					
	585.00	165324.5	139.0	165462.0	936.50					
	586.00	145827.0	0.0	145235.0	895.26					
	587.00	127554.0	0.0	127550.0	806.76					
	588.00	110771.5	0.0	110771.5	724.00					
	589.00	94192.0	0.0	94192.0	645.55					
	590.00	78259.2	0.0	78259.2	578.28					
	591.00	65926.1	0.0	65926.1	497.95					
	592.00	52484.0	0.0	52484.0	428.00					
	593.00	41148.0	0.0	41148.0	362.94					
	594.00	31136.5	0.0	31136.5	308.66					
	595.00	22349.0	0.0	22349.0	248.14					
	596.00	14857.0	0.0	14857.0	180.32					
	597.00	8687.4	0.0	8687.4	129.55					
	598.00	3995.7	0.0	3995.7	79.00					
	599.00	1289.5	0.0	1289.5	34.94					
	600.00	0.0	0.0	0.0	0.00					

CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.	CFS	VELOCITY	ELEV.
37100.00	5.15	555.19						

EX. 5.15 = 555.19

2021 EDITION

WICK CREEK AT WIMMER AND CELESTINE RD - DOWNSIDE

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DISTANCE

STATION=1277+15

SECTION 141.	CHANNEL NO.	DOWNSTREAM VALLEY 172.	UPSTREAM CHANNEL 196.	VALLEY 198.	DRAINAGE AREA, SA MI 1.00	NO. 1 .050	'N' VALUE BY SEGMENTS			
							NO. 2 .045	NO. 3 .045	NO. 4 .045	NO. 5 .045
KD VALUES										
			ELEVATION	CHANNEL	VALLEY	TOTAL				
			565.00	1281515.0	857208.5	1058744.0	12292.00			
			564.00	1283494.0	811319.1	1060894.0	11433.15			
			563.00	900849.1	765826.1	1066475.0	10924.70			
			562.00	764510.4	722079.5	1066590.0	9750.25			
			561.00	649336.9	679200.7	1326530.0	8832.91			
			560.00	562640.1	627623.5	1240232.0	8097.22			
			559.00	522359.0	597349.0	1126708.0	7393.25			
			558.00	508760.1	557910.4	1066793.0	6229.06			
			557.00	444642.6	520174.4	964817.0	6282.02			
			556.00	369909.2	483006.0	853995.4	5749.91			
			555.00	382161.0	447787.4	743948.0	5221.49			
			554.00	249947.4	412535.7	653589.1	4035.36			
			553.00	181676.6	396462.1	561739.7	4171.59			
			552.00	123449.0	342545.0	481935.2	3653.14			
			551.00	89440.2	317763.0	407210.0	3136.53			
			550.00	51768.2	265103.5	399371.0	2622.00			
			549.00	25525.1	266181.0	285796.4	2113.56			
			548.00	9686.9	233518.0	243394.2	1679.33			
			547.00	2197.7	297721.5	289919.0	1330.98			
			546.00	.0	184965.0	184731.0	1155.75			
			545.00	.0	167255.2	167255.2	1047.14			
			544.00	.0	148346.0	148346.0	968.68			
			543.00	.0	130371.0	130371.0	876.37			
			542.00	.0	113595.0	113595.0	794.64			
			541.00	.0	97737.5	97737.5	715.49			
			540.00	.0	88211.0	88211.0	639.29			
			539.00	.0	69904.0	69904.0	565.77			
			538.00	.0	57597.0	57597.0	484.94			
			537.00	.0	46316.0	46316.0	426.89			
			536.00	.0	36298.0	36298.0	361.58			
			535.00	.0	27350.0	27350.0	298.79			
			534.00	.0	19487.7	19487.7	238.65			
			533.00	.0	12786.0	12786.0	181.19			
			532.00	.0	7275.0	7275.0	126.37			
			531.00	.0	3133.0	3133.0	74.34			
			530.00	.0	700.0	700.0	26.53			
			529.00	.0	.0	.0	.00			
CFS VELOCITY ELEV.			CFS VELOCITY ELEV.			CFS VELOCITY ELEV.				
37100.00			6.31			556.25				

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;

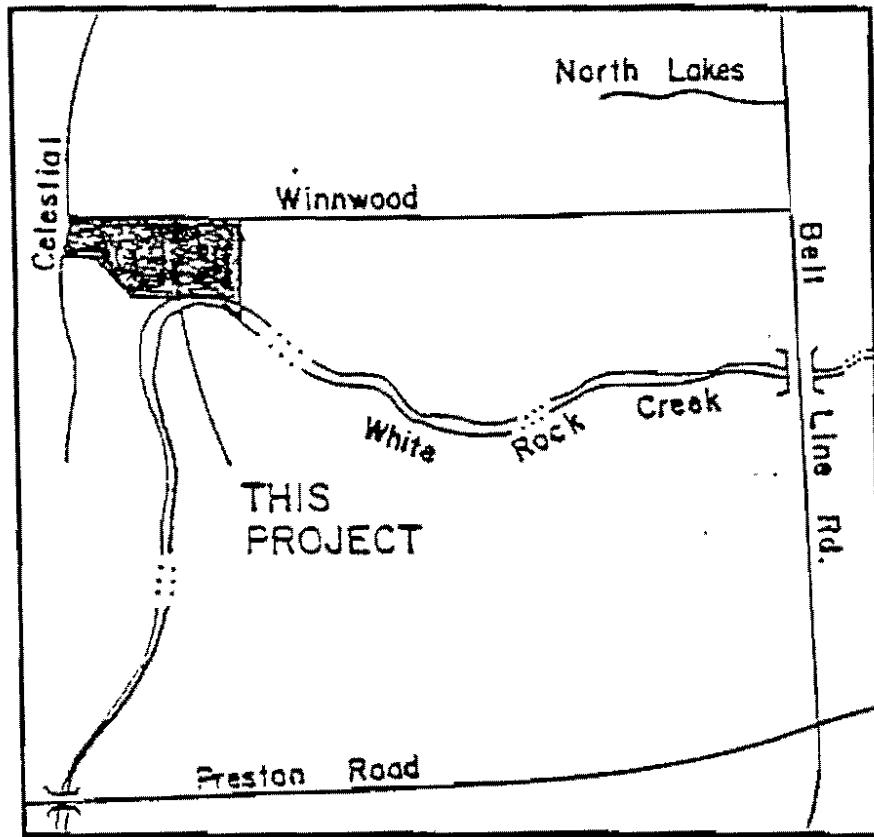
THENCE, South 00° 00'00" W, and leaving the above said point a distance of 200.00 feet to a point for a corner;

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

3

EXHIBIT A
VICINITY MAP



Location Map
n.t.s.

EXHIBIT B
100-YEAR INUNDATION LIMITS

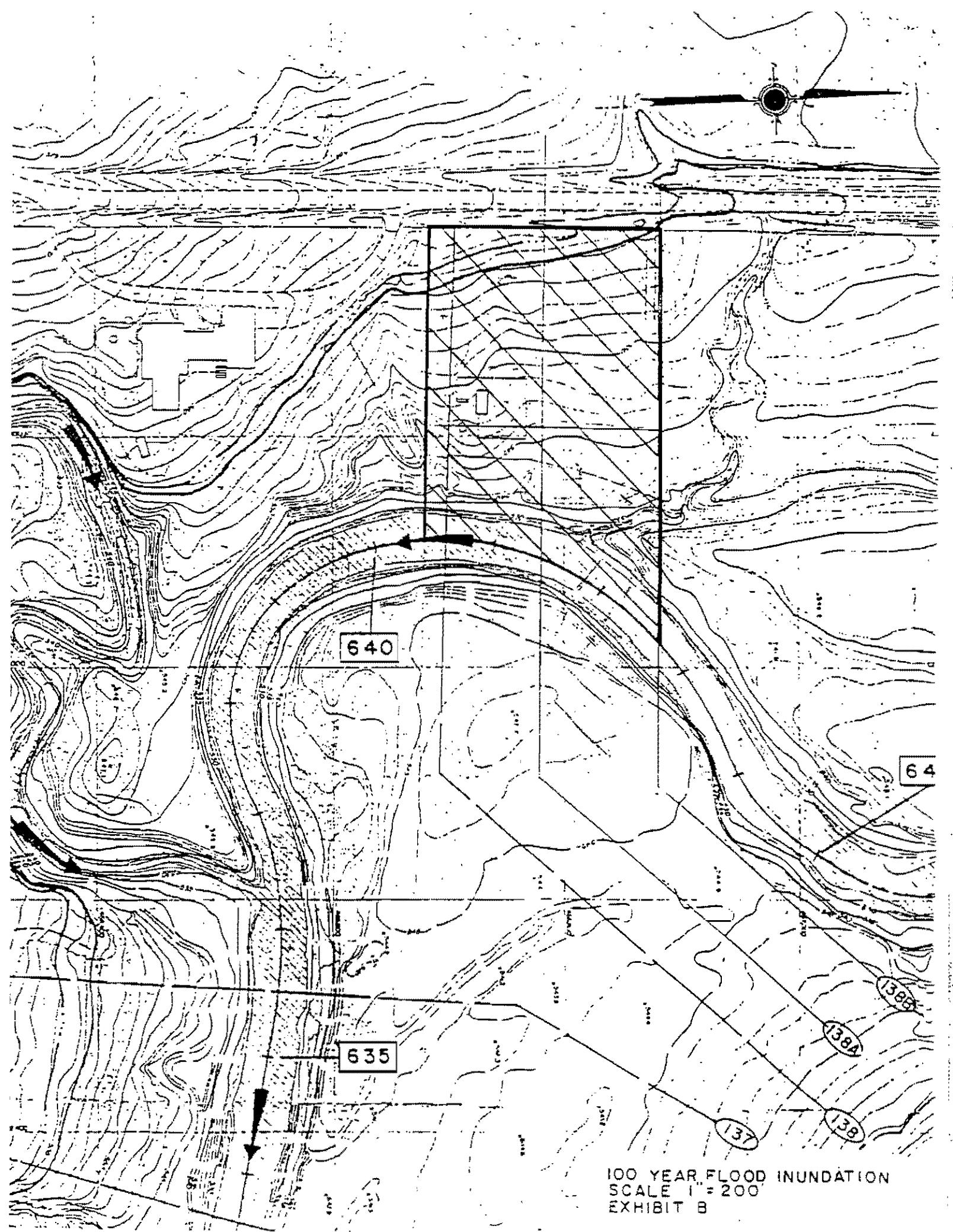


EXHIBIT C
WATER SURFACE PROFILE

100 YEAR WATER SURFACE

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

140

360

EXHIBIT D

CROSS-SECTIONS

CROSS SECTIONS

Wilmwood Road & Gleason Road

JERRY KING

HILLS - ZOLLADS - 100

Surplus

City of Addison Taxes

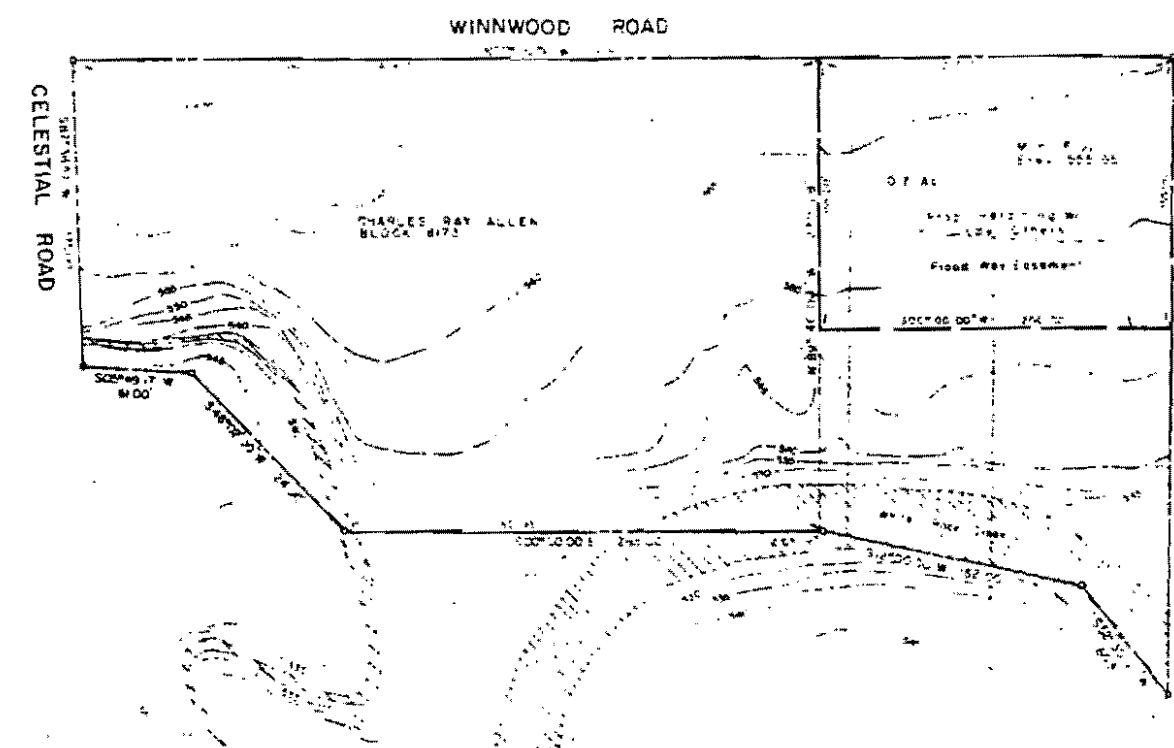
LOT#	LINE#	TYPE	NAME	SIZE	DATE	PROJ#
1	1	1	1	1	1	1

ROSS SECTION						
Wimberley	Road 6 & Colington Road					
VERITY KING						
RAY L. COLE CO., INC.						
100 CR 12, DR 12, Austin, Texas						
VERITY KING	DRIVE	DATE	NAME	DATE	PERIOD	
CR	12	12	12	12	12	

EXHIBIT E

RECLAMATION PLAN

Location Map
075



NOTE
OVERLAP SYMBOLS ARE JOURNAL POINTS TO
PREVENT LEAKAGE OF SILT AT SEAM

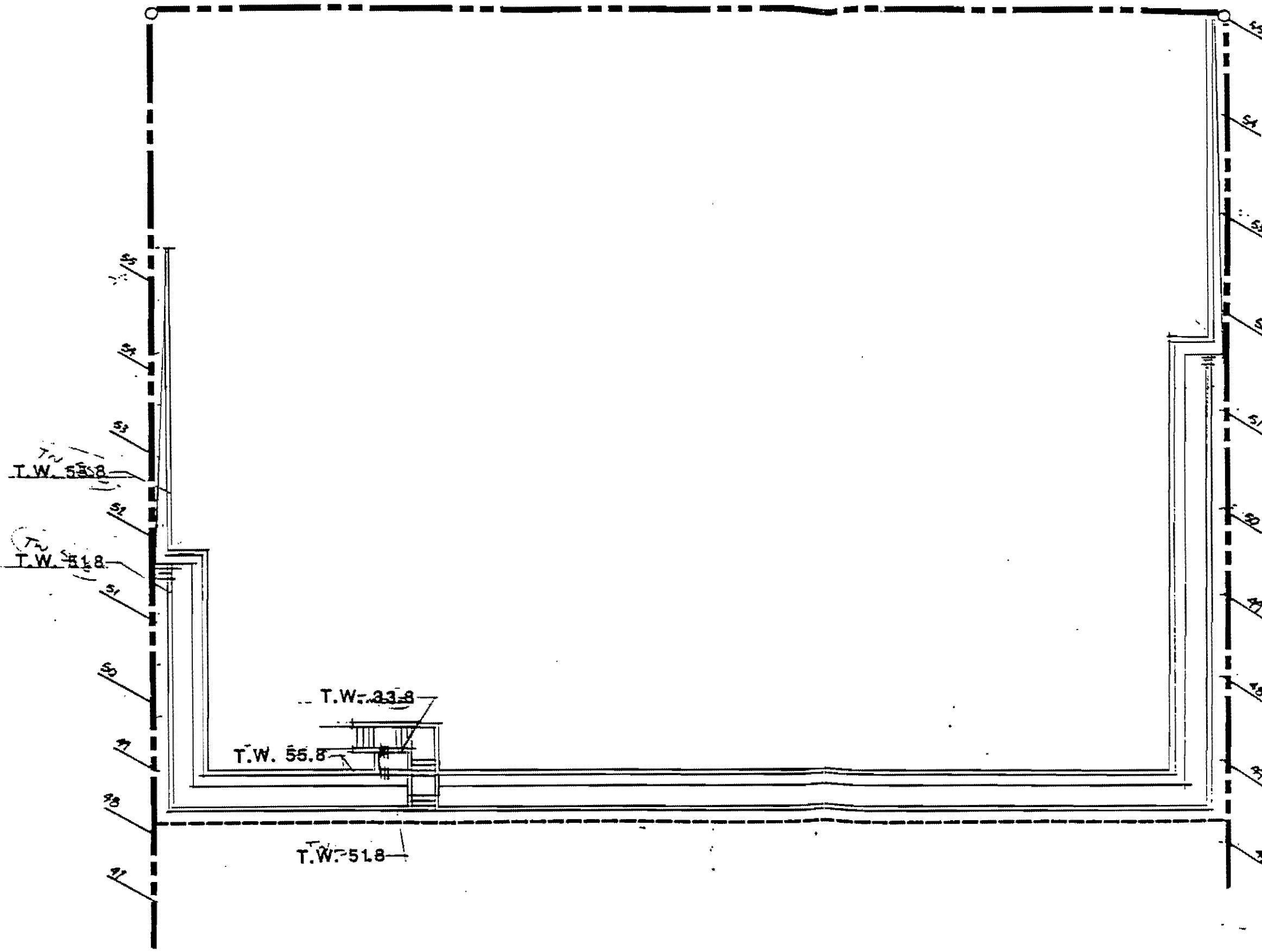
Winnwood Road
Celestial Road
Charles Ray Allen
Block 8175
0.7 Acre
Flood Way Assessment

SILT FENCE

PROPOSED RECLAMATION PLAN
Winnwood Road & Celestial Roads
JERRY KING
City of Addison, Texas
City of Addison, Texas

EXHIBIT F
RETAINING WALL TYPICAL SECTION

בנין גן ותאורה



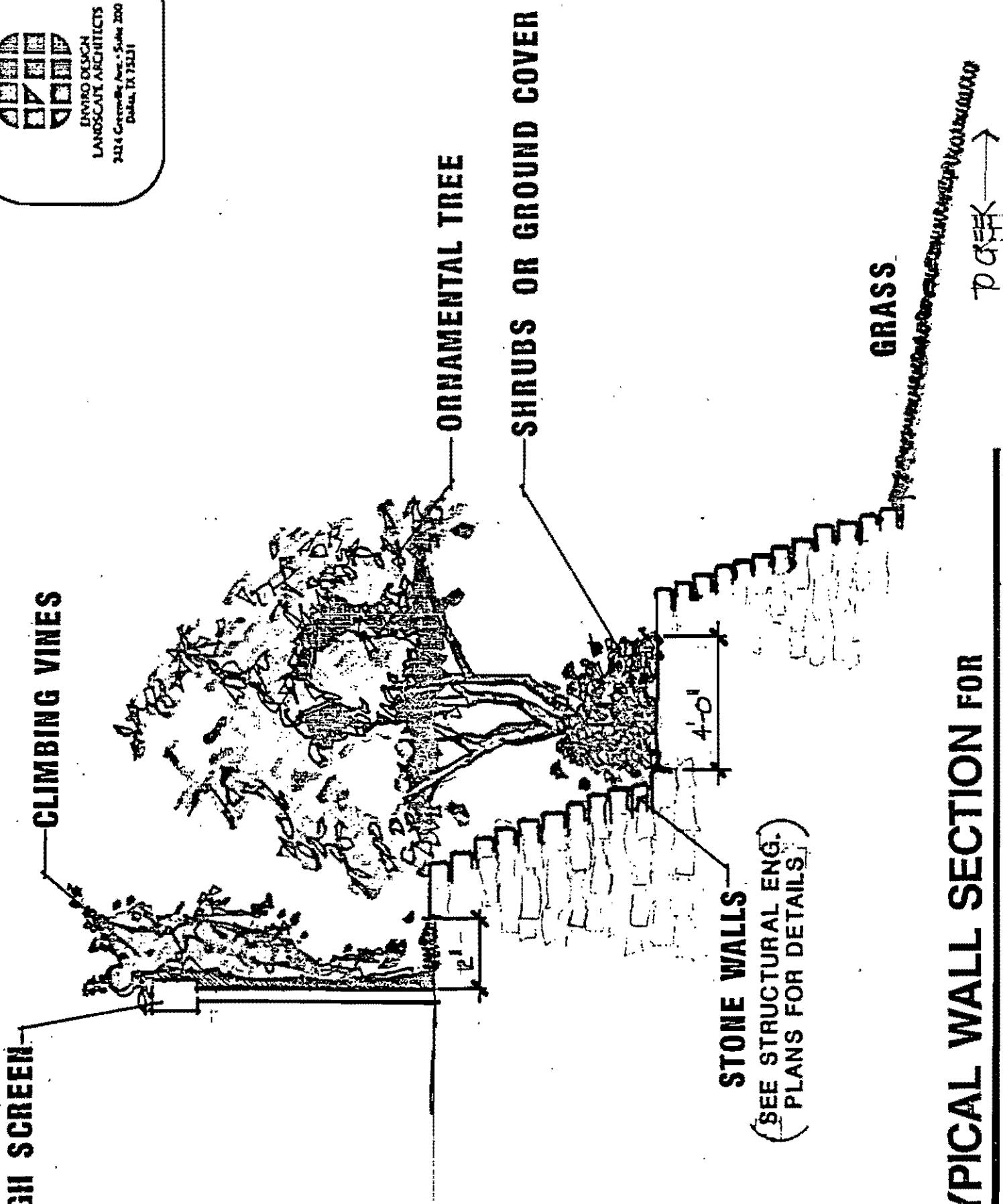
SCALE: 1" = 20'-0"





ENVIRONMENTAL DESIGN
LANDSCAPE ARCHITECTS
3224 Cypress Ave., Suite 200
Dallas, TX 75211

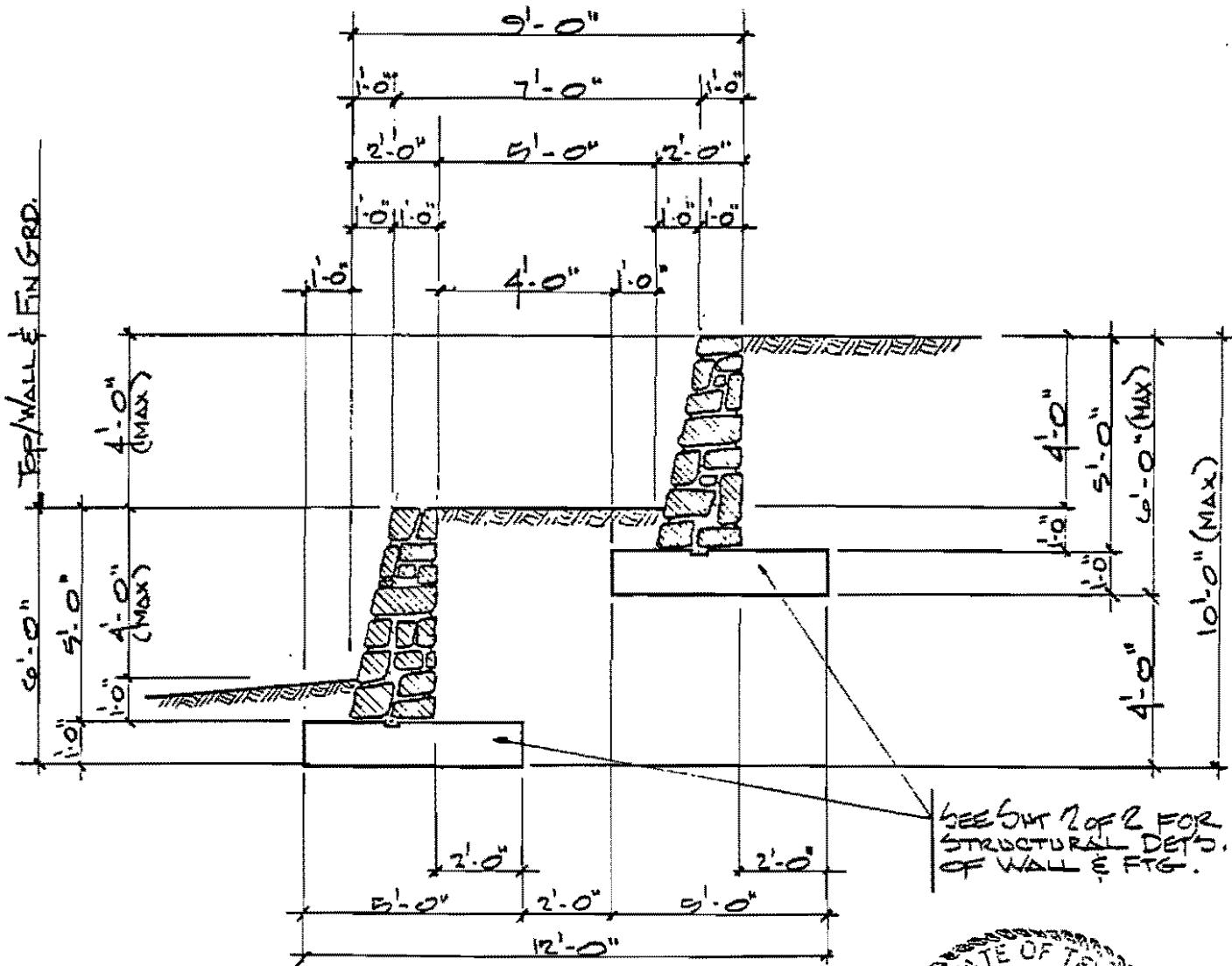
6 FT. HIGH SCREEN



TYPICAL WALL SECTION FOR

DATE: 9-18-05

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. C RETAINING WALL

4'-0"-0"



Victor J. Kimm 9/19/85

HUITT-ZOLLARS

Dallas/Houston/Fort Worth/Collin County/Phoenix

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

RETAINING WALL DETAILS

JERRY KING RESIDENCE

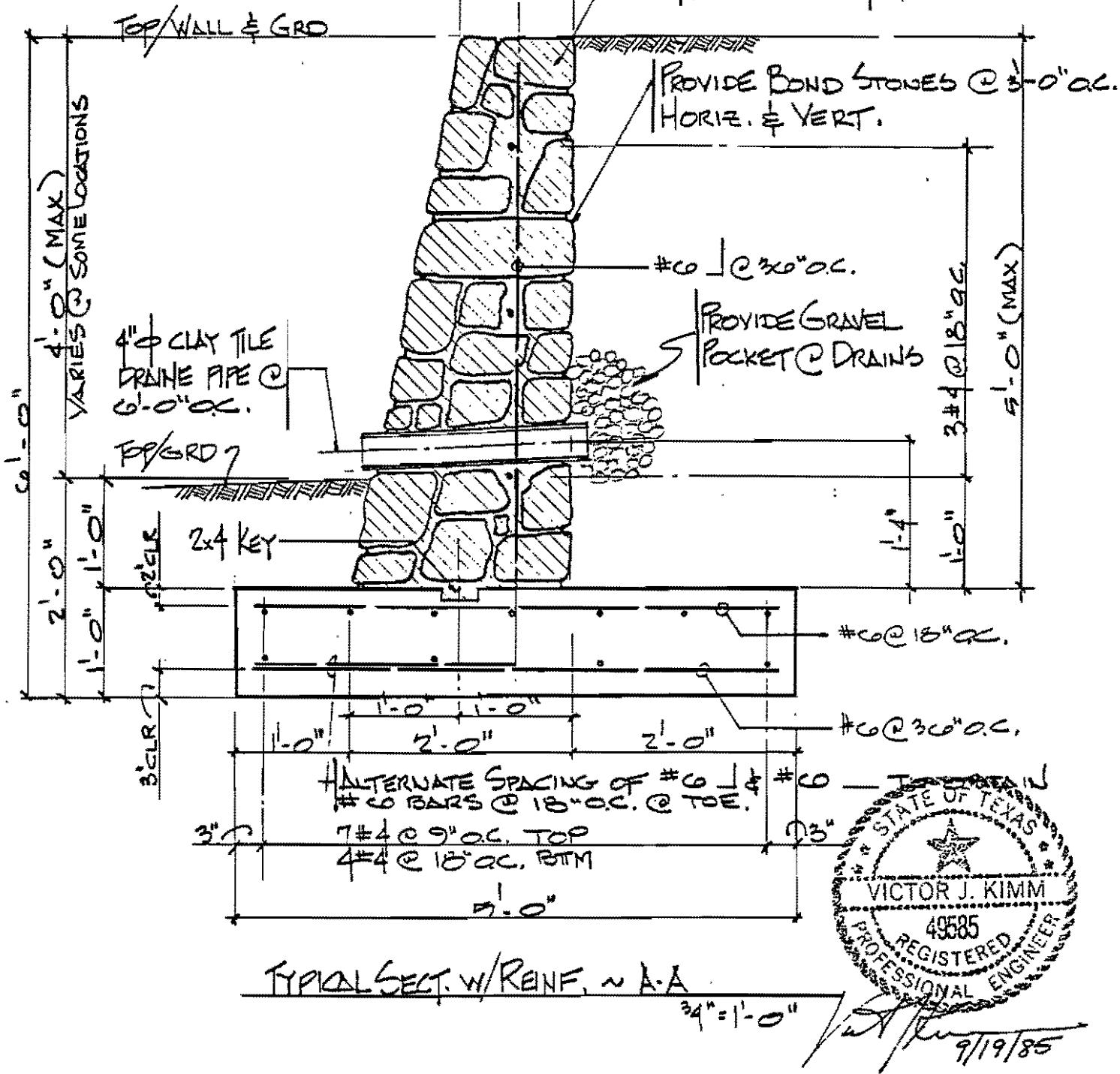
JOB NO: 0882-02 DATE: 18 SEPT 85

1 OF 2
OWN
VK
VK

MATERIAL Specs:

CONC. ~ 3 ksi @ 28 days
REINF. ~ 60 ksi
MORTAR ~ TYPE M or S

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



HUITT-ZOLLARS

Dallas/Houston/Fort Worth/Collin County/Phoenix

Huftt-Zaldars, Inc./Consulting Engineers
3131 McKinney Avenue/Suite 600
Dallas, Texas 75204/214-971-3311

RETAIN WALL - DETAILS

KERRY KING RESIDENCE

JOB NO: 0882-02 DATE: 18 SEPT 85

300 19

2

2 OF 2