EASTERN CANAL
FLOODPLAIN DELINEATION STUDY

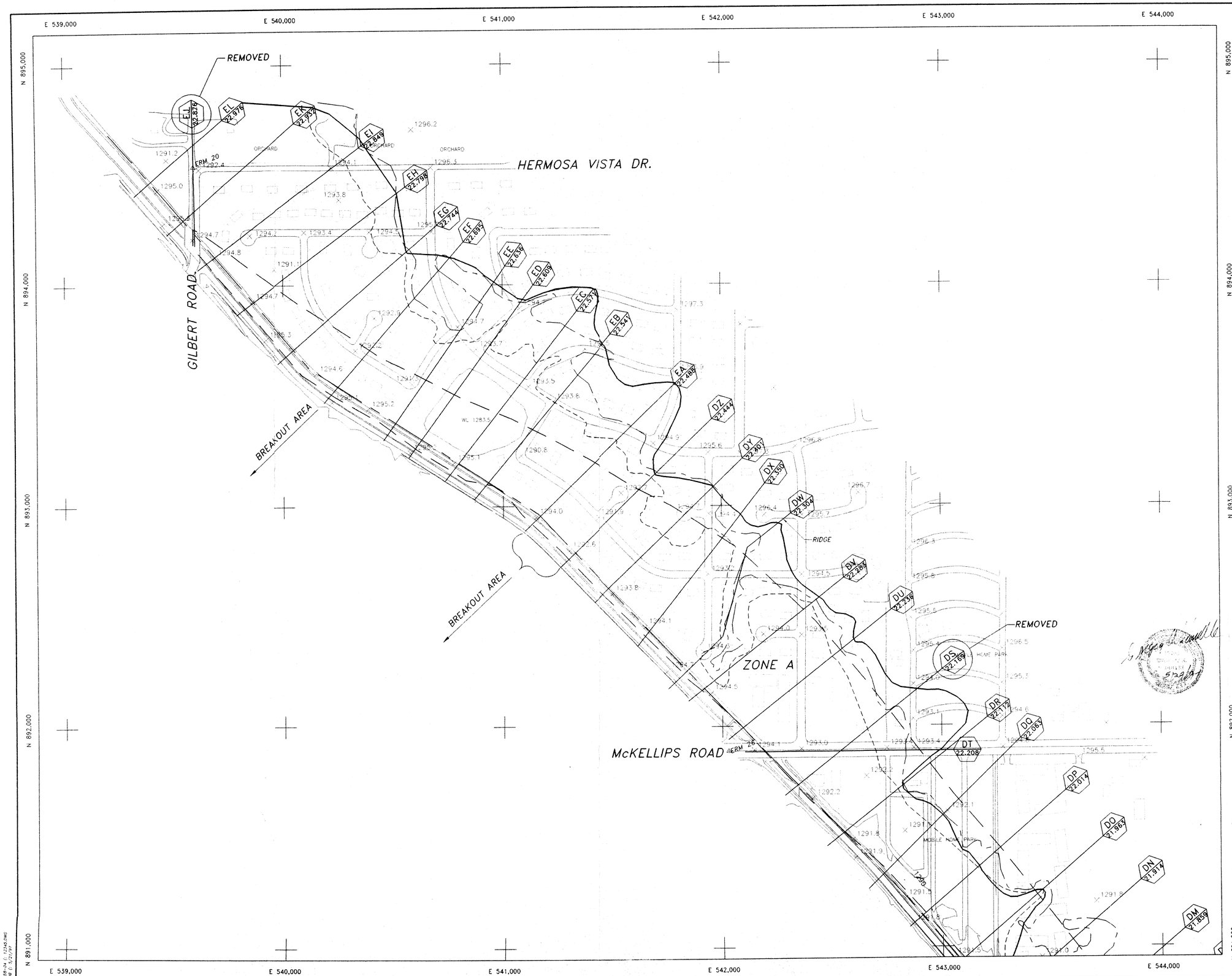
TECHNICAL DATA NOTEBOOK

Book 2 of 2

Submitted to:

Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85008
(602) 506-1501

See Section 4.2.4 for Inventory of Road Crossings & Drainage Structures; See Section 4.5 for Culvert Analysis Utilizing HEC-5 and As-Built Drawings for Superstition Freeway Crossing



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

LEGEND

EFFECTIVE APPROX. A BOUNDARY	
PROPOSED UPDATED APPROX. ZONE A BOUNDARY	
STUDY FLOODPLAIN BOUNDARY PROFILE 1	
STUDY FLOODPLAIN BOUNDARY PROFILE 2	
HYDRAULIC BASE LINE WITH RIVER MILE	M12.0 M13.0
CROSS SECTION	LETTER ID. AA / RIVER MILE ID. 22.304 — Q=100 Yr DISCHARGE, CFS / FD=100 Yr WSE / FW=Floodway WSE
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	
COUNTY OR STATE JURISDICTIONAL BOUNDARY	

ELEVATION REFERENCE MARKS

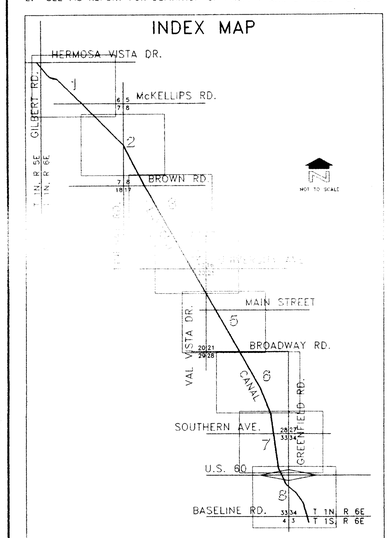
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
E.R.M. 20	1292.12'	C.O.M. B.C. IN H.H. (0.72' BELOW RIM) INTER. HERMOSA VISTA / OLD GILBERT RD.
E.R.M. 26	1292.99'	UNMKED. B.C. IN H.H. AT CENTER-LINE McKELLIPS RD. 100'± W. OF E. CANAL (0.30' BELOW RIM)

NOTES

1. CROSS-SECTION STA. 10,000.00 IS HYDRAULIC BASELINE
2. SEE FIS REPORT FOR DEFINITION OF PROF. 1 AND 2 FLOOD PLAINS.

INDEX MAP



200 0' 200 400

SCALE: 1" = 200'
CONTOUR INTERVAL = 2'

A-N WEST INC.
Consulting Engineers
7600 N. 15th Street, Suite 200
Phoenix, Arizona 85020
(602)861-2200

	BY	DATE
DESIGN	GAB	
DESIGN CHK.	GAS	
PLANS	CMB	
PLANS CHK.		
SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

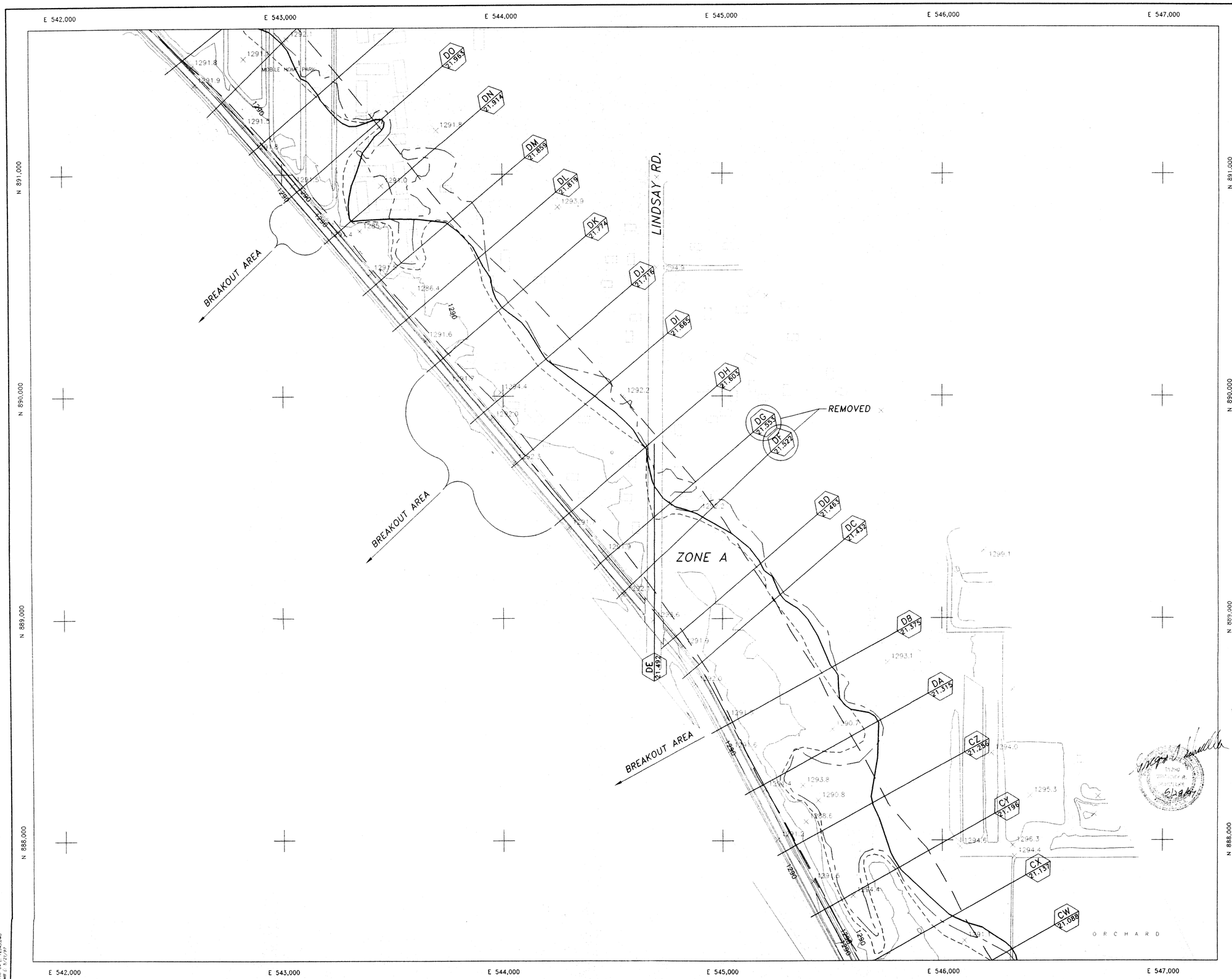
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 or 8

T.D.N. SECTION 2.5

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1" = 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY PROJECT ENGINEERING, CONSULTANTS, LTD.



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

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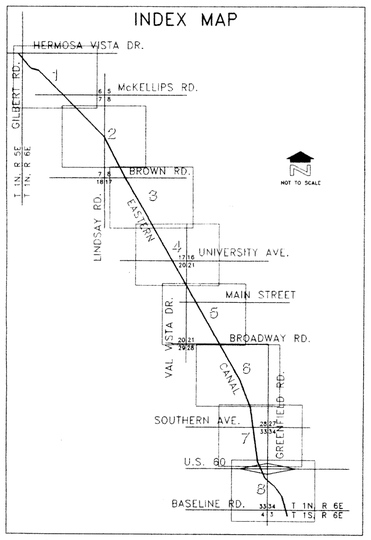

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DESIGN CHK.	GAS	
PLANS	CMB	
PLANS CHK.		
SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 2 OF 8

T.D.N. SECTION 2.5

7158-04 (.12345.DWG
CMB (5/21/97

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

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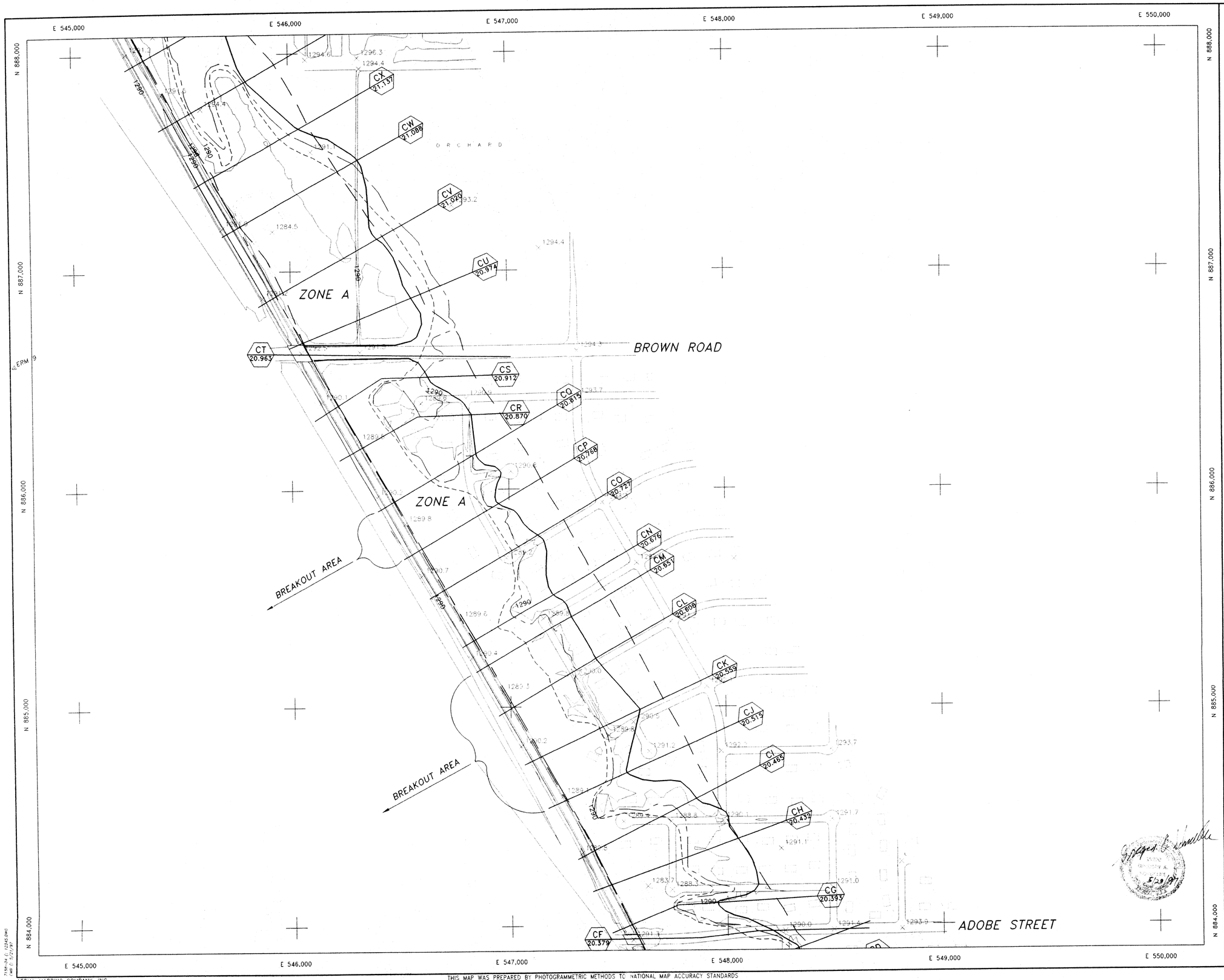

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

LEGEND

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ELEVATION REFERENCE MARKS

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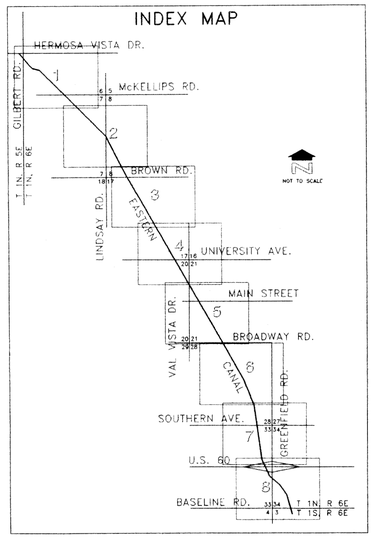
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
E.R.M. 9	1281.32'	C.O.M. B.C. IN H.H. (0.90' BELOW RIM) INTER. BROWN / LINDSAY RD.

NOTES

1. CROSS-SECTION STA. 10,000.00 IS HYDRAULIC BASELINE
2. SEE FIS REPORT FOR DEFINITION OF PROF. 1 AND 2 FLOOD PLAINS.

INDEX MAP



200 0' 200 400

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CONTOUR INTERVAL = 2'

A-N WEST INC.
Consulting Engineers
7600 N. 15th Street, Suite 200
Phoenix, Arizona 85020
(602)861-2200

	BY	DATE
DESIGN	GAB	
DESIGN CHK.	GAS	
PLANS	CMB	
PLANS CHK.		
SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 3 OF 8

T.D.N. SECTION 2.5

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
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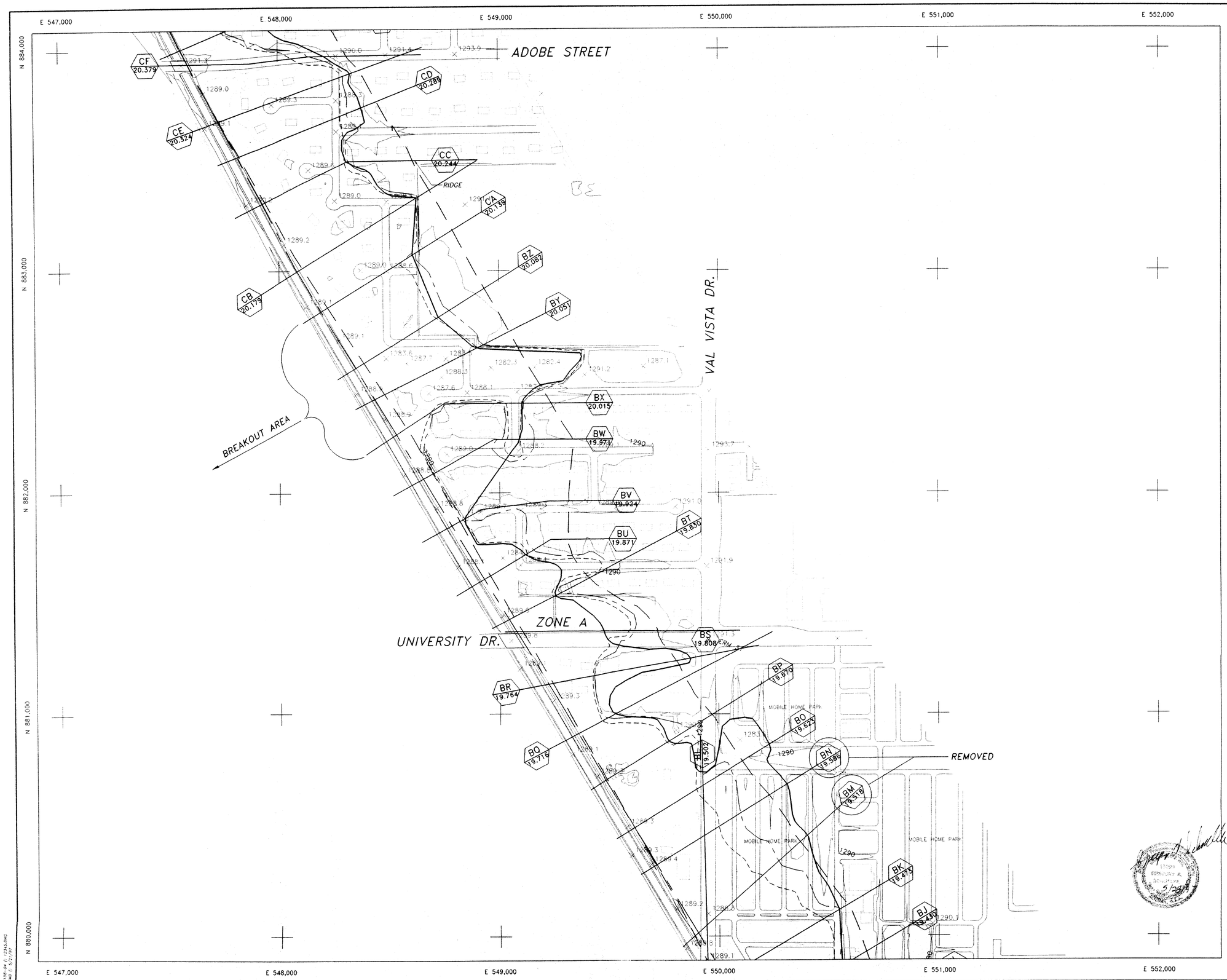

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

LEGEND

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ELEVATION REFERENCE MARKS

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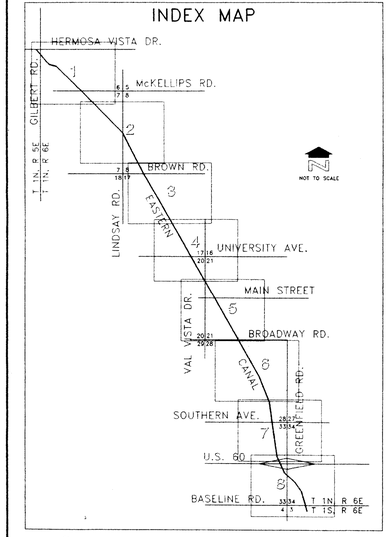
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
E.R.M. 31	1290.53'	C.O.M. B.C. IN H.H. (0.58' BELOW RIM) INTER. UNIVERSITY / VAL VISTA DR.

NOTES

1. CROSS-SECTION STA. 10,000.00 IS HYDRAULIC BASELINE
2. SEE FIS REPORT FOR DEFINITION OF PROF. 1 AND 2 FLOOD PLAINS.

INDEX MAP



200 0' 200 400

SCALE: 1" = 200'
CONTOUR INTERVAL = 2'

A-N WEST INC.
Consulting Engineers
7600 N. 15th Street, Suite 200
Phoenix, Arizona 85020
(602)861-2200

	BY	DATE
DESIGN	GAB	
DESIGN CHK.	GAS	
PLANS	CMB	
PLANS CHK.		
SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 4 OF 8

T.D.N. SECTION 2.5

7158.04 (-1245.DWG
CMB / 5/21/97

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

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1" = 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
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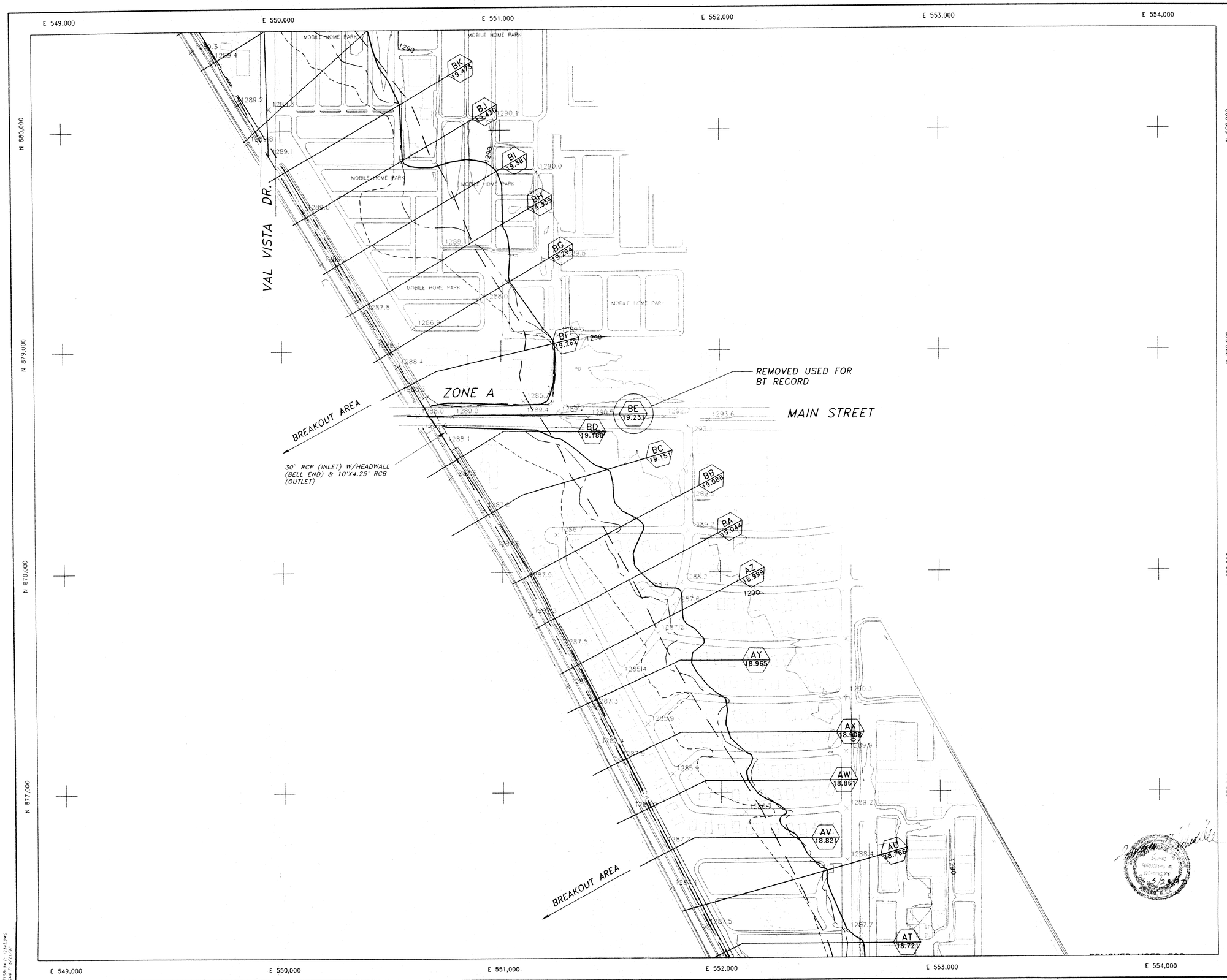

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

LEGEND

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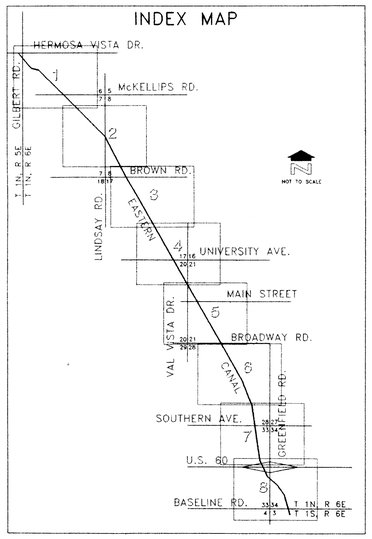

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A-N WEST INC.
Consulting Engineers
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(602)861-2200

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SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 5 OF 8

T.D.N. SECTION 2.5

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

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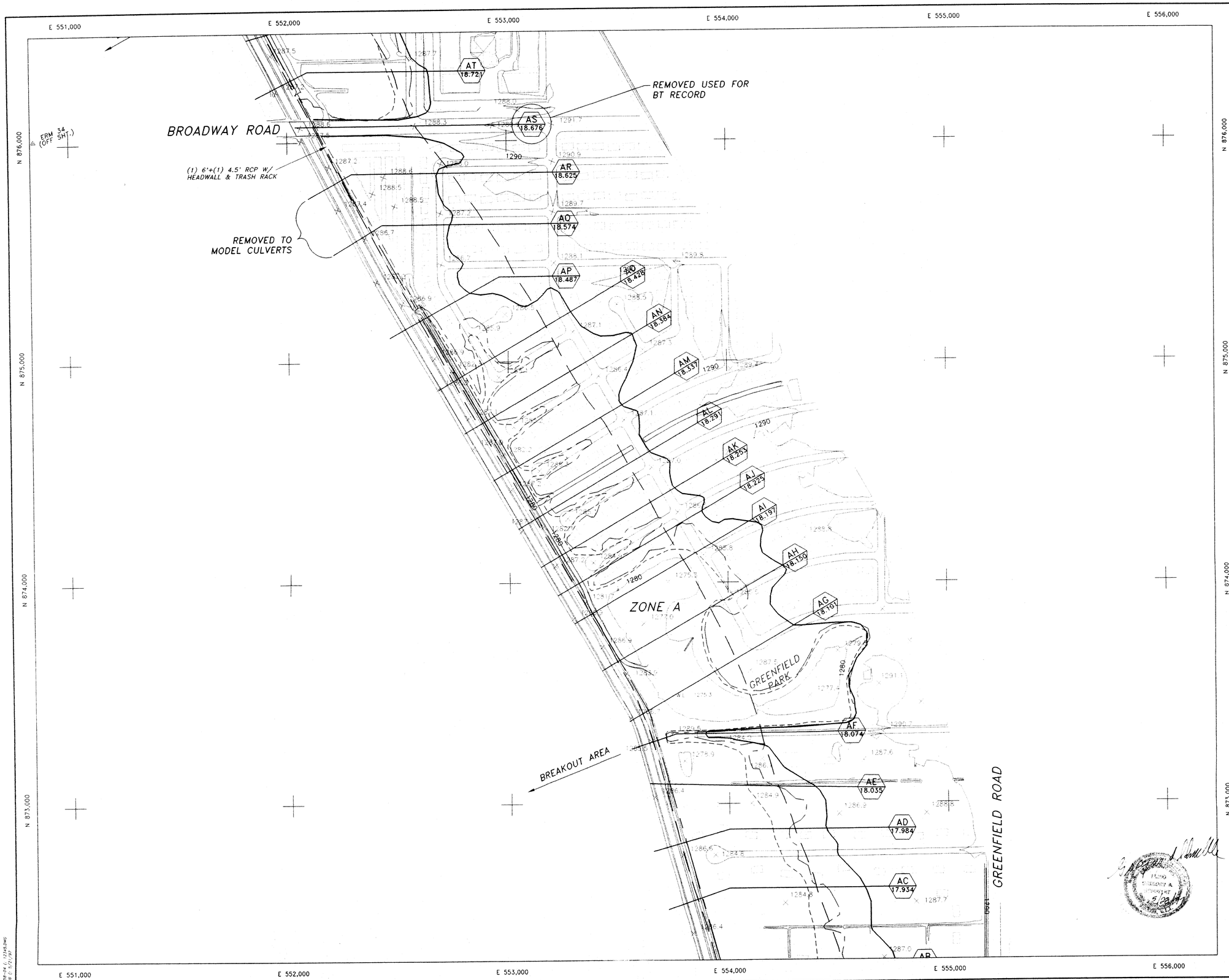

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

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ELEVATION REFERENCE MARKS

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I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
E.R.M. 34	1274.10'	C.O.M. B.C. IN H.H. (0.48' BELOW RIM) INTER. VAL VISTA DR. / BRAODWAY RD.

NOTES

1. CROSS-SECTION STA. 10,000.00 IS HYDRAULIC BASELINE
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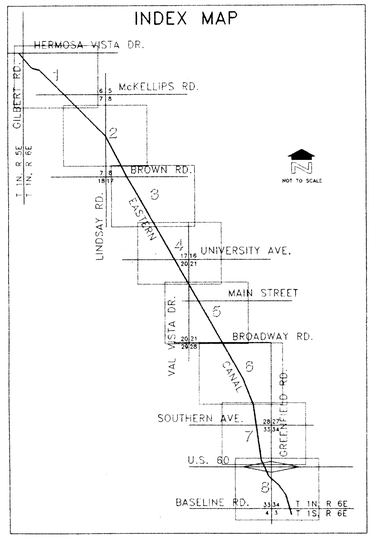
INDEX MAP



SCALE: 1" = 200'
CONTOUR INTERVAL = 2'

A-N WEST INC.
Consulting Engineers
7600 N. 15th Street, Suite 200
Phoenix, Arizona 85020
(602)861-2200

	BY	DATE
DESIGN	GAB	
DESIGN CHK.	GAS	
PLANS	CMB	
PLANS CHK.		
SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 6 OF 8

T.D.N. SECTION 2.5

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

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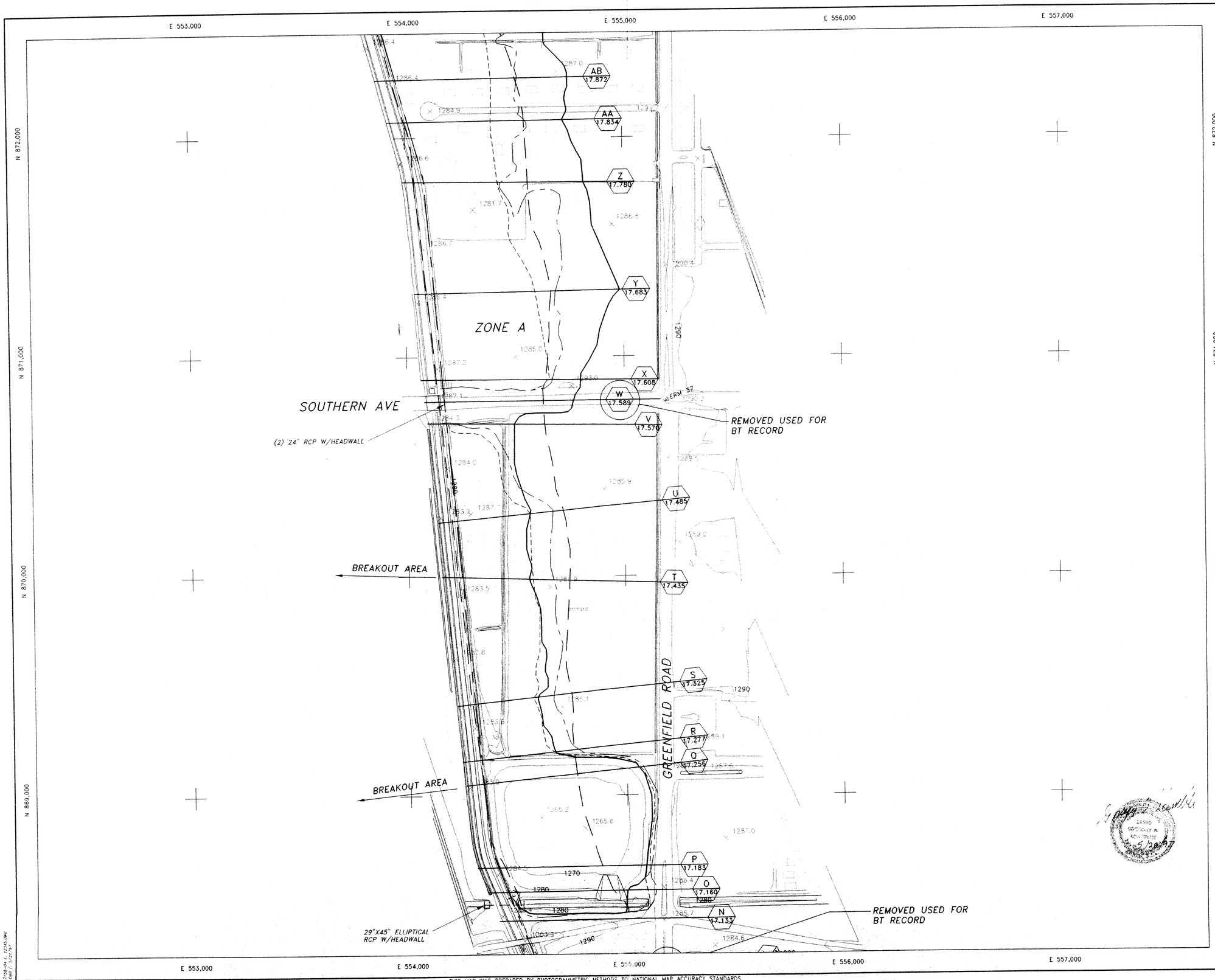

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EASTERN CANAL

F.C.D. CONTRACT NO. 96-10

LEGEND

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I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
E.R.M. 37	1289.79'	C.O.M. B.C. IN H.H. (0.49' BELOW RIM) INTER. SOUTHERN AVE. / GREENFIELD RD.

NOTES

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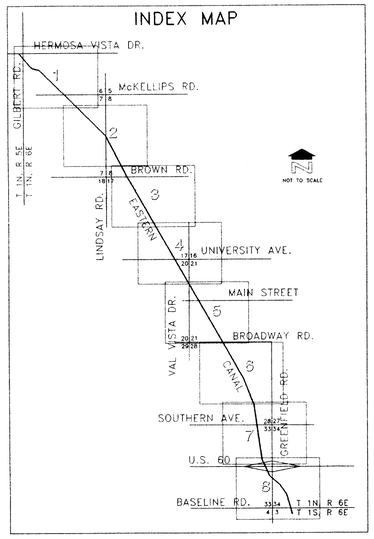
INDEX MAP



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PLANS CHK.		
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 7 OF 8

T.D.N. SECTION 2.5

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
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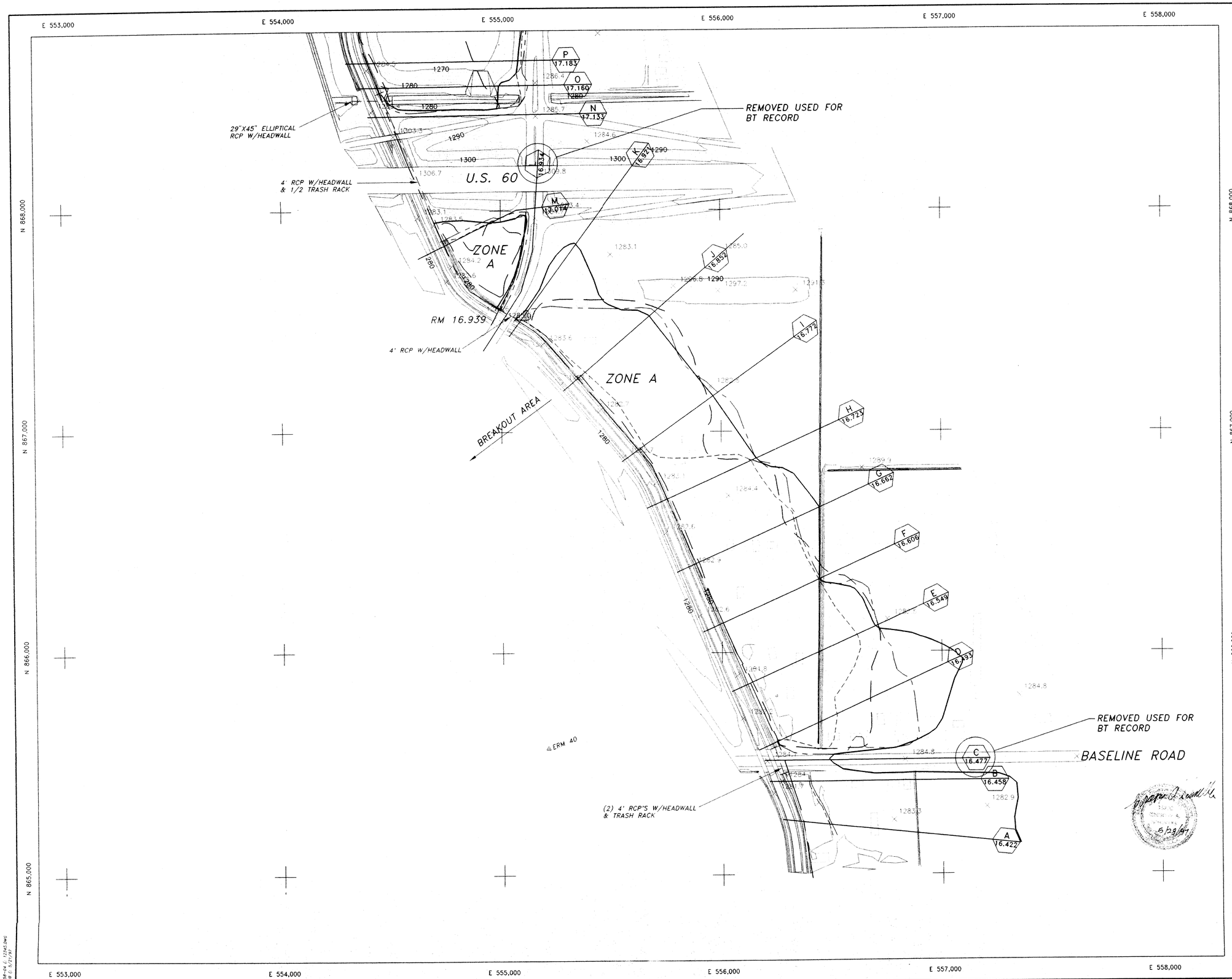

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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NOTES

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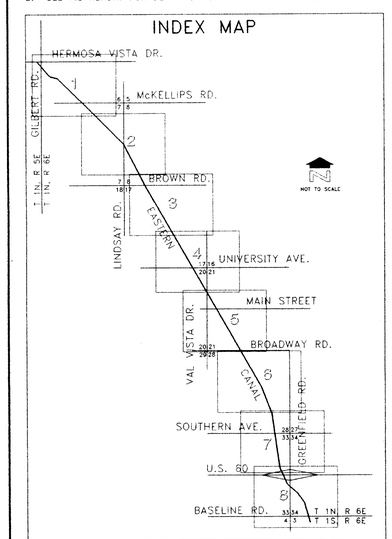
INDEX MAP



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(602)861-2200

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DESIGN CHK.	GAS	
PLANS	CMB	
PLANS CHK.		
SUBMITTED BY:		DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: _____ DATE

APPROVED BY: _____ DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 8 OF 8

T.D.N. SECTION 2.5

AERIAL MAPPING COMPANY, INC.
SURVEYING AND PHOTOGRAMMETRY
FLIGHT DATE: 3/20/96

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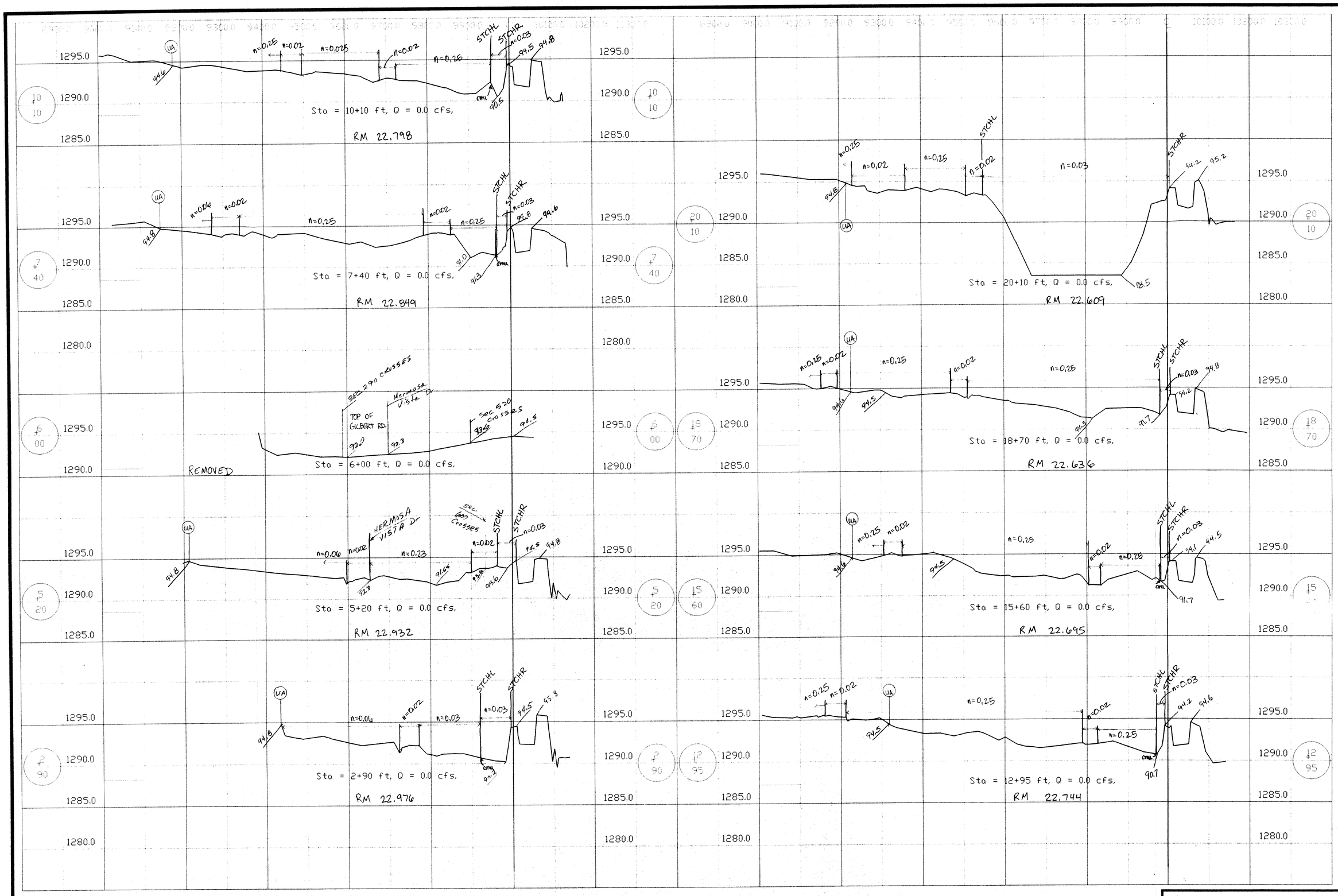


UA = UPDATED APPROXIMATE ZONE A FLOODPLAIN WIDTH/ELEVATION

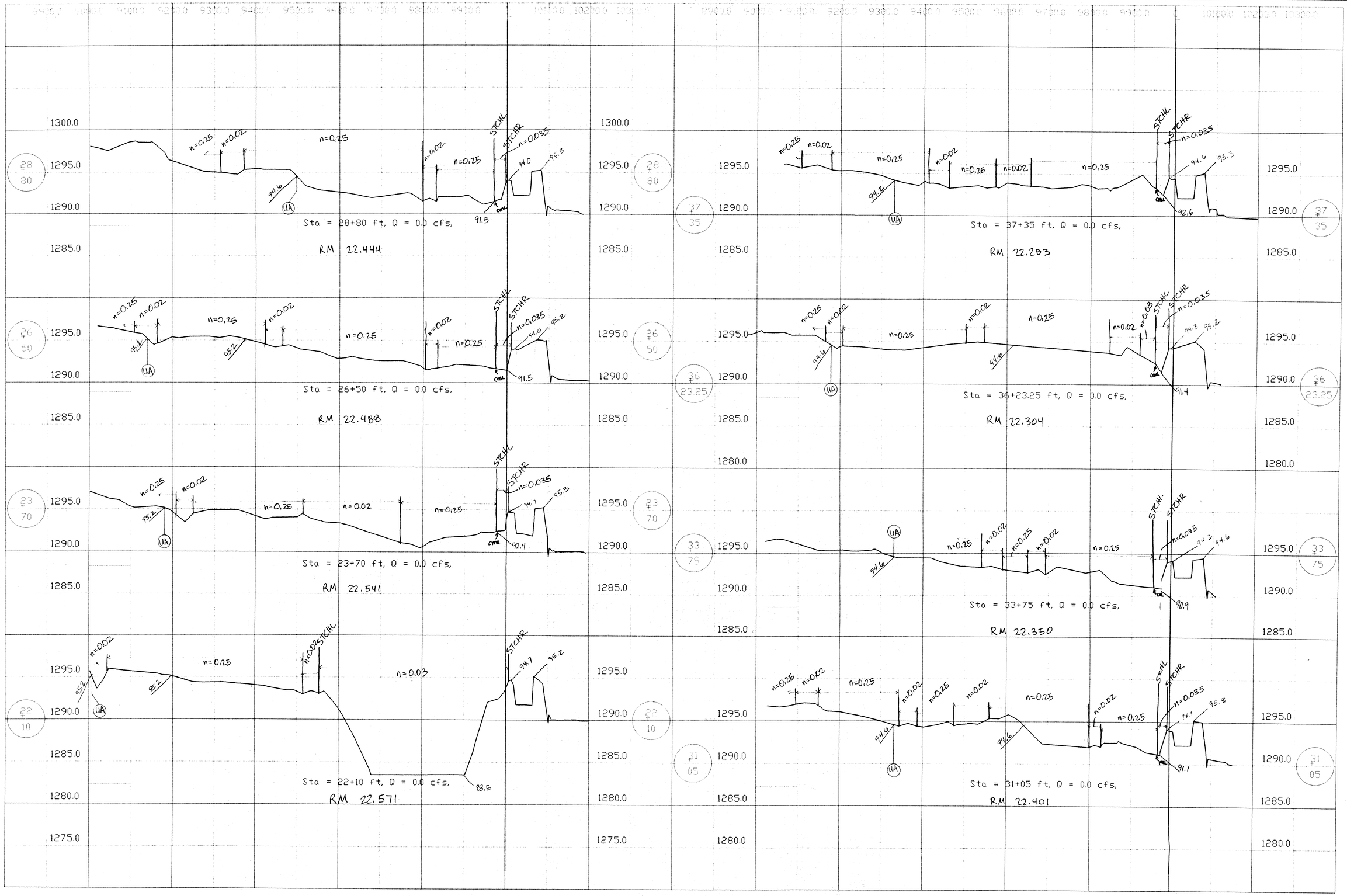
1/17

A-N WEST INC.
Consulting Engineers
7600 N. 15th Street, Suite 200
Phoenix, Arizona 85020
(602)861-2200

FCDMC NO.96-10 ANW#7158-04

T.D.N. SEC.4.3.1

4/16/97



2/17

(UA) = UPDATED APPROXIMATE ZONE A FLOODPLAIN WIDTH/ELEV.

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FCDMC NO.98-10 ANW#7158-04

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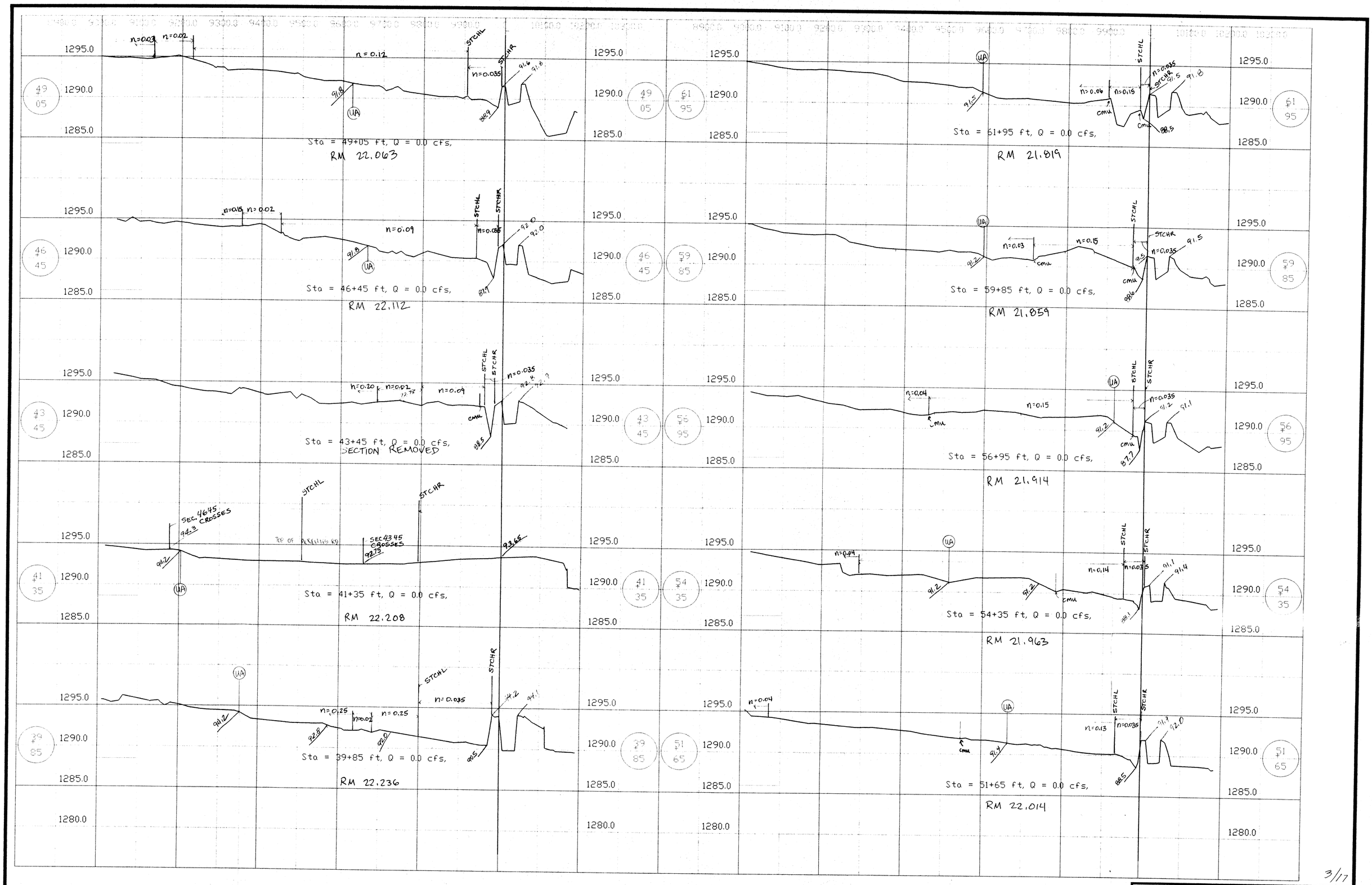
4/16/97



3/17

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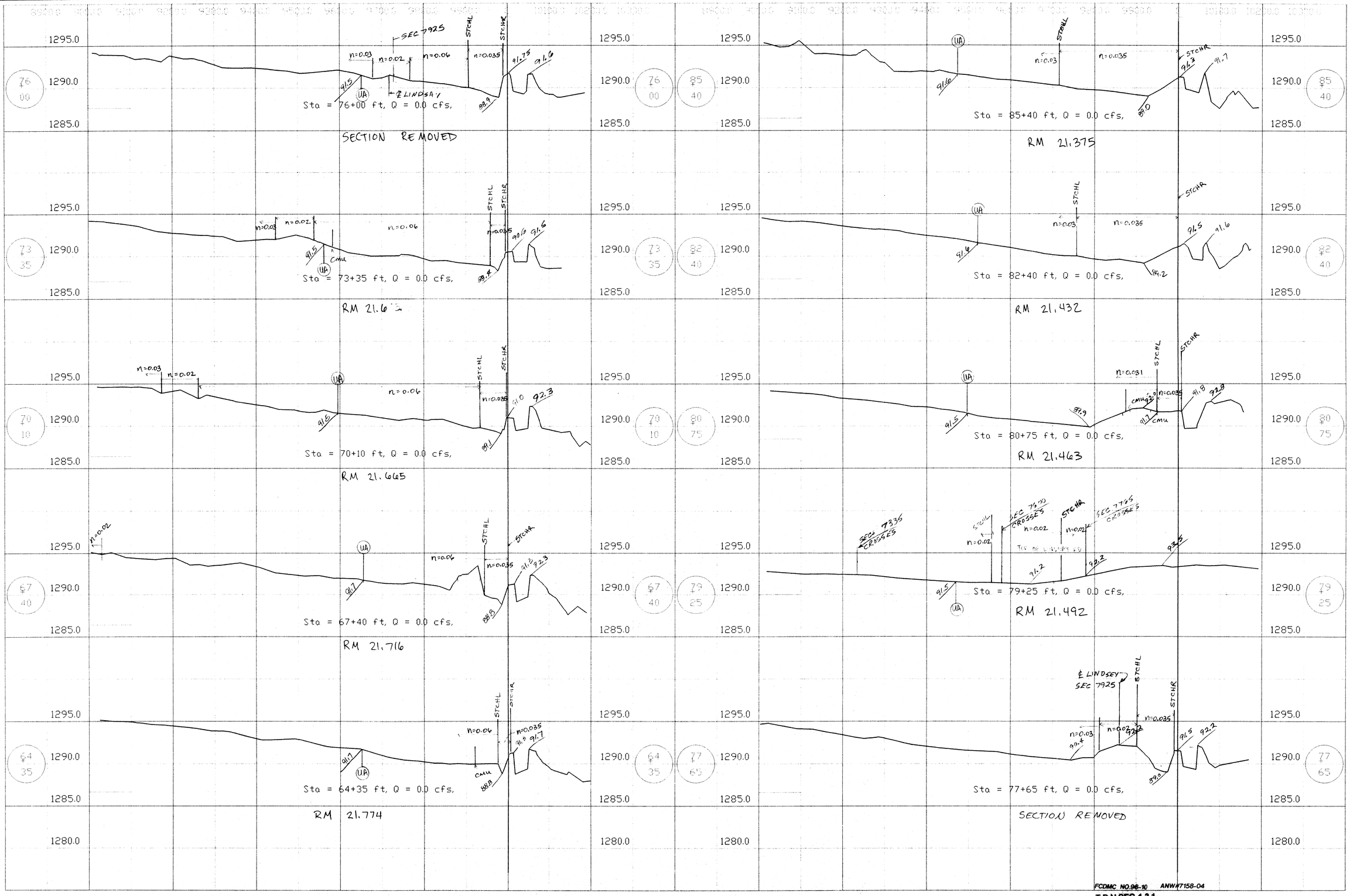

FCDMC NO.96-10 ANW#7158-04

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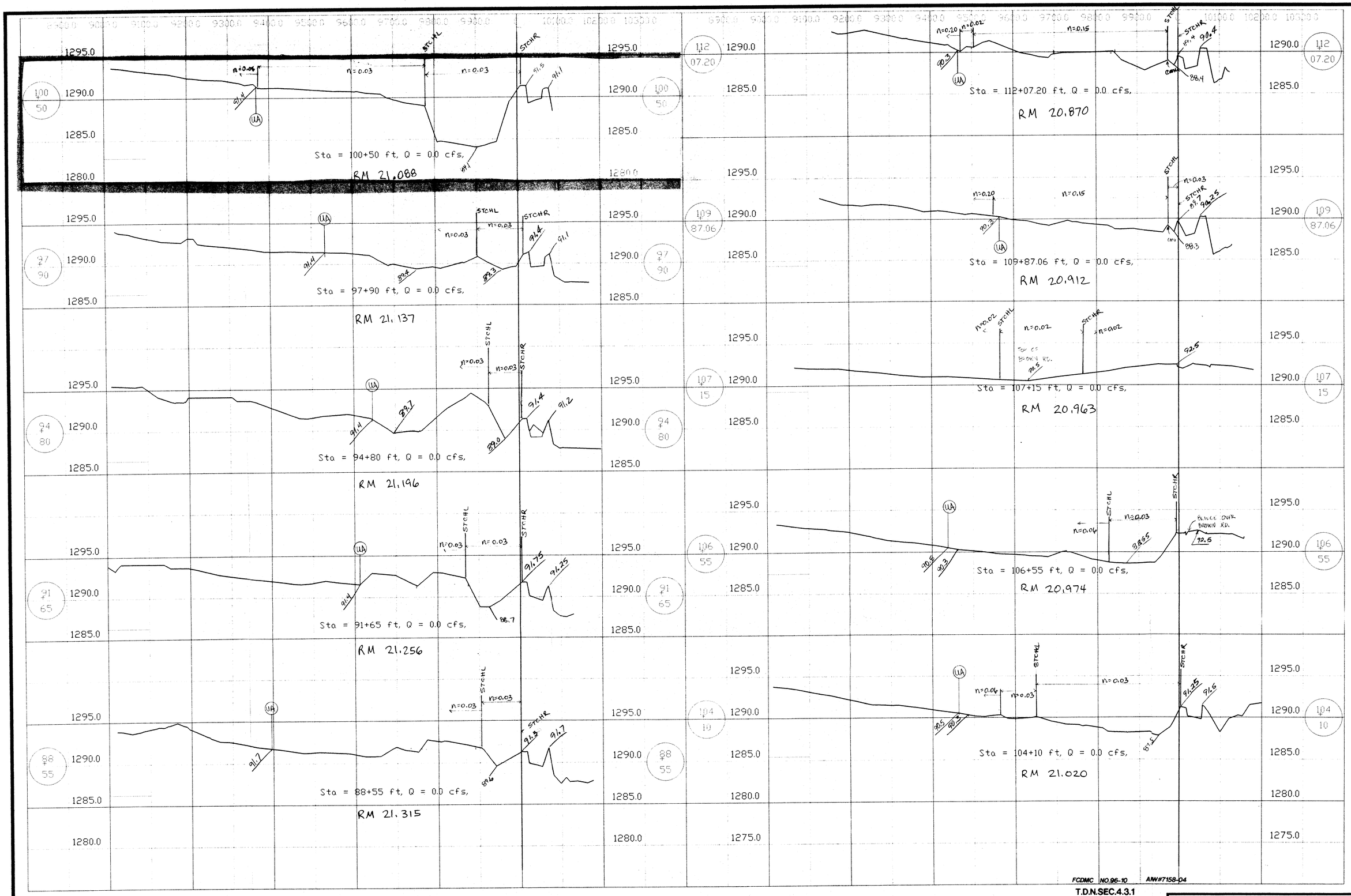

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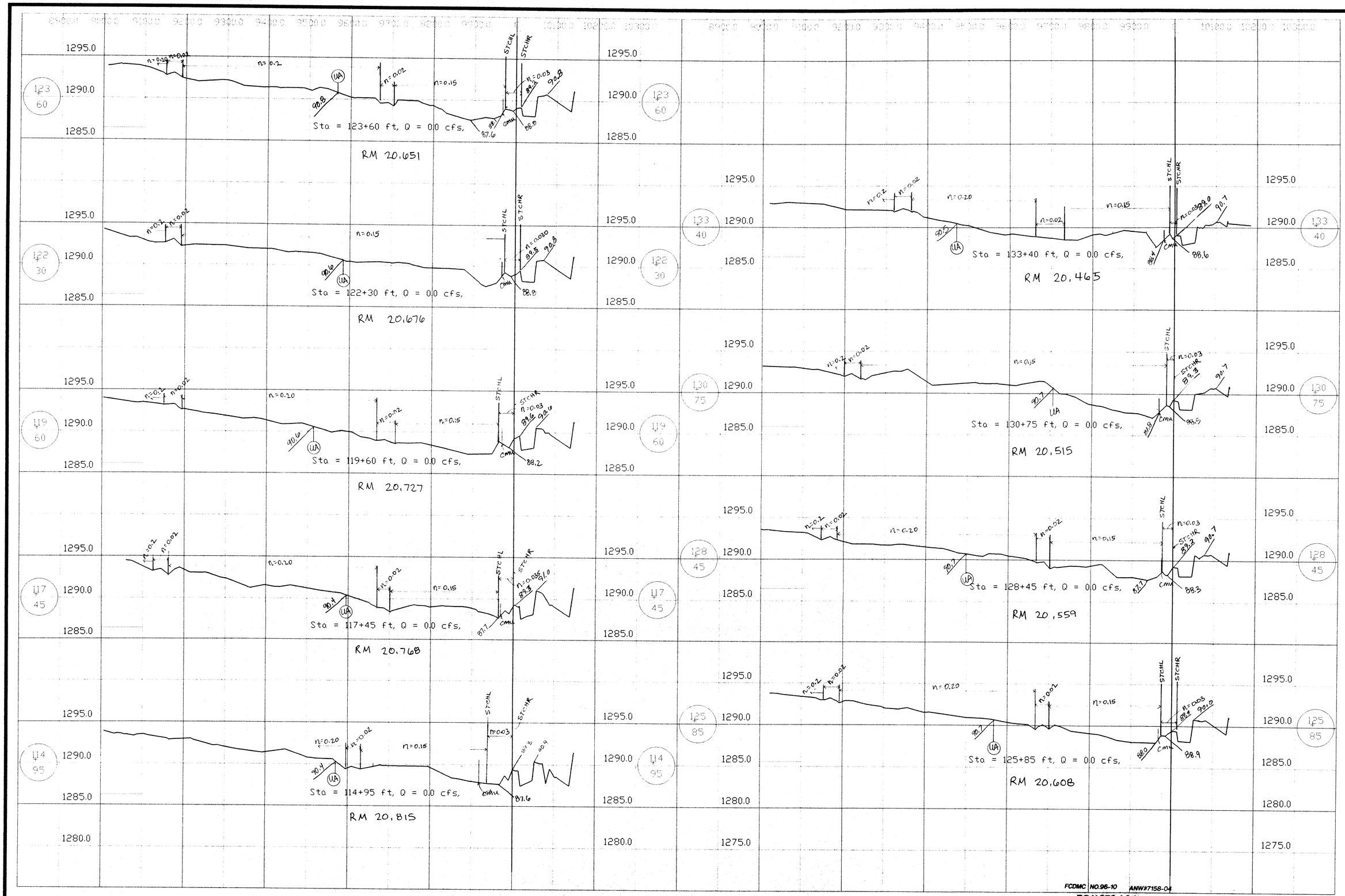

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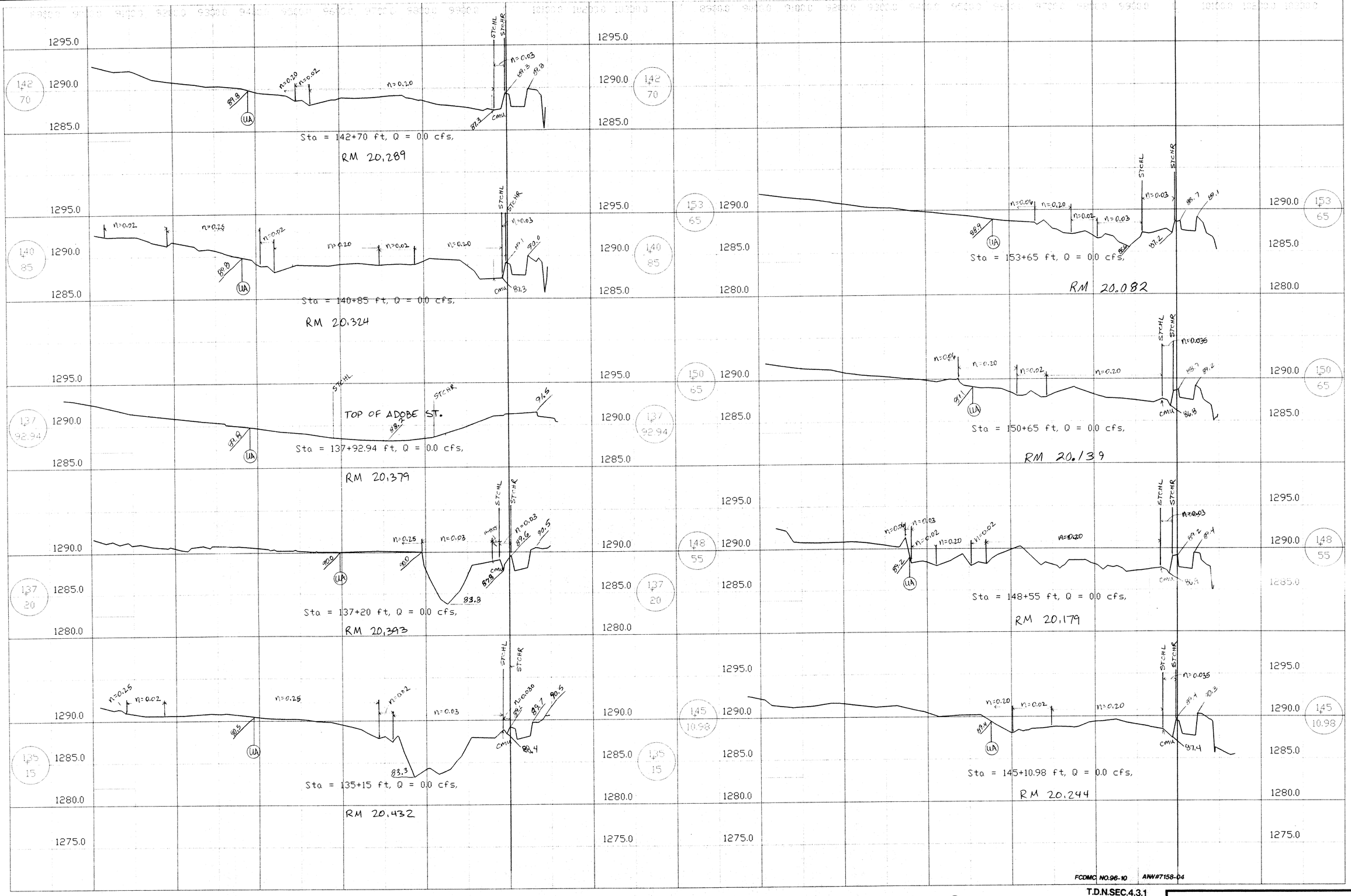

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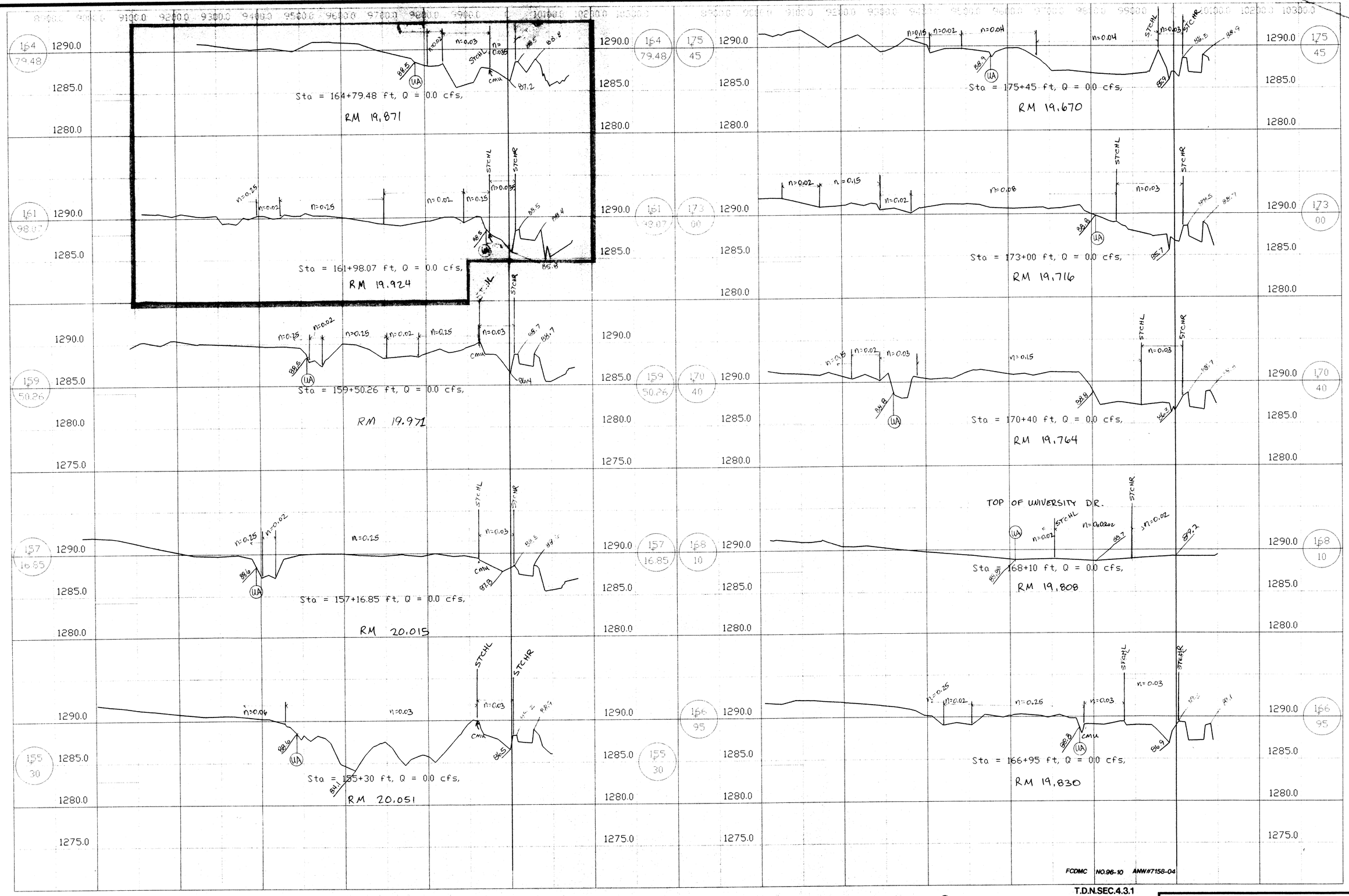

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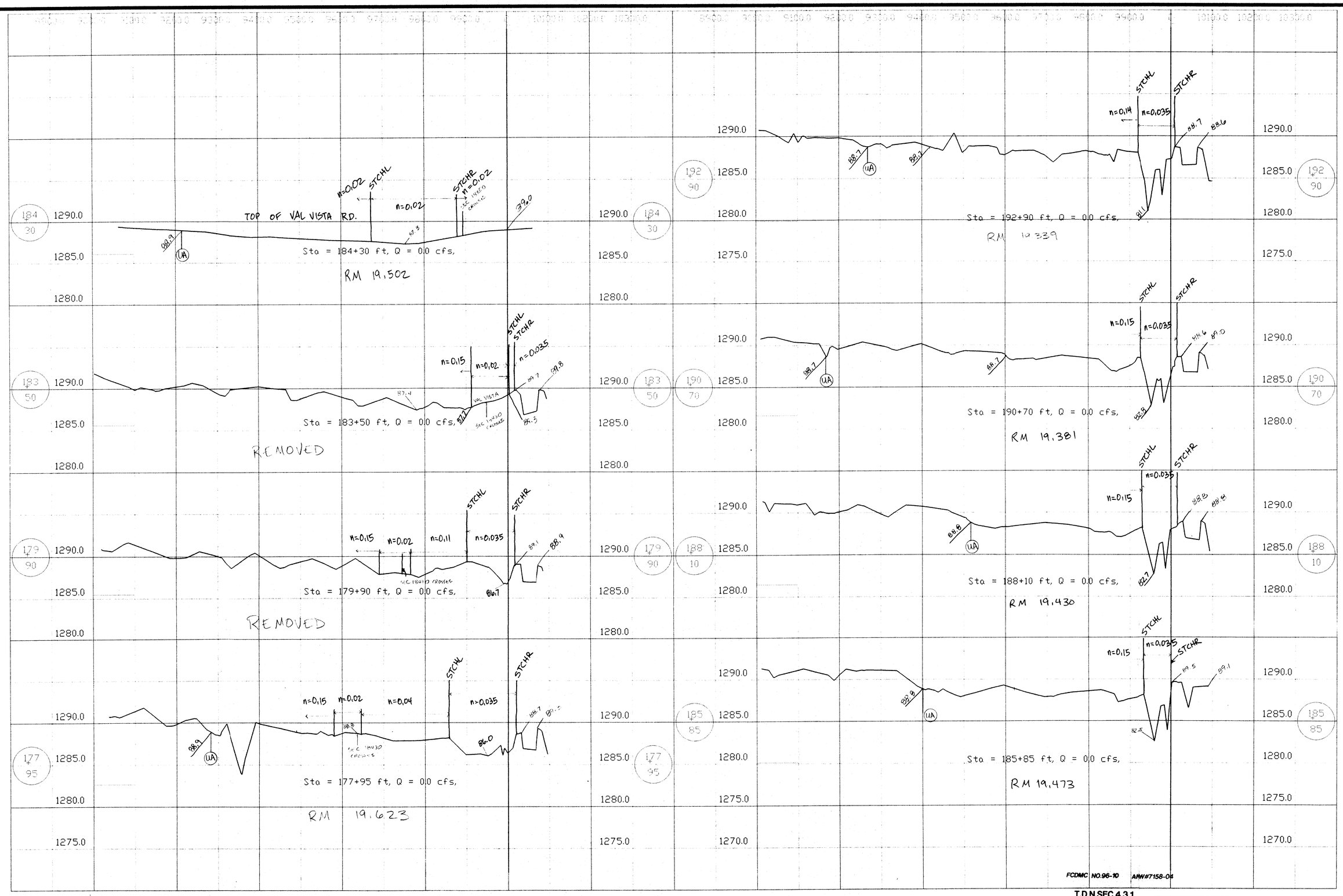

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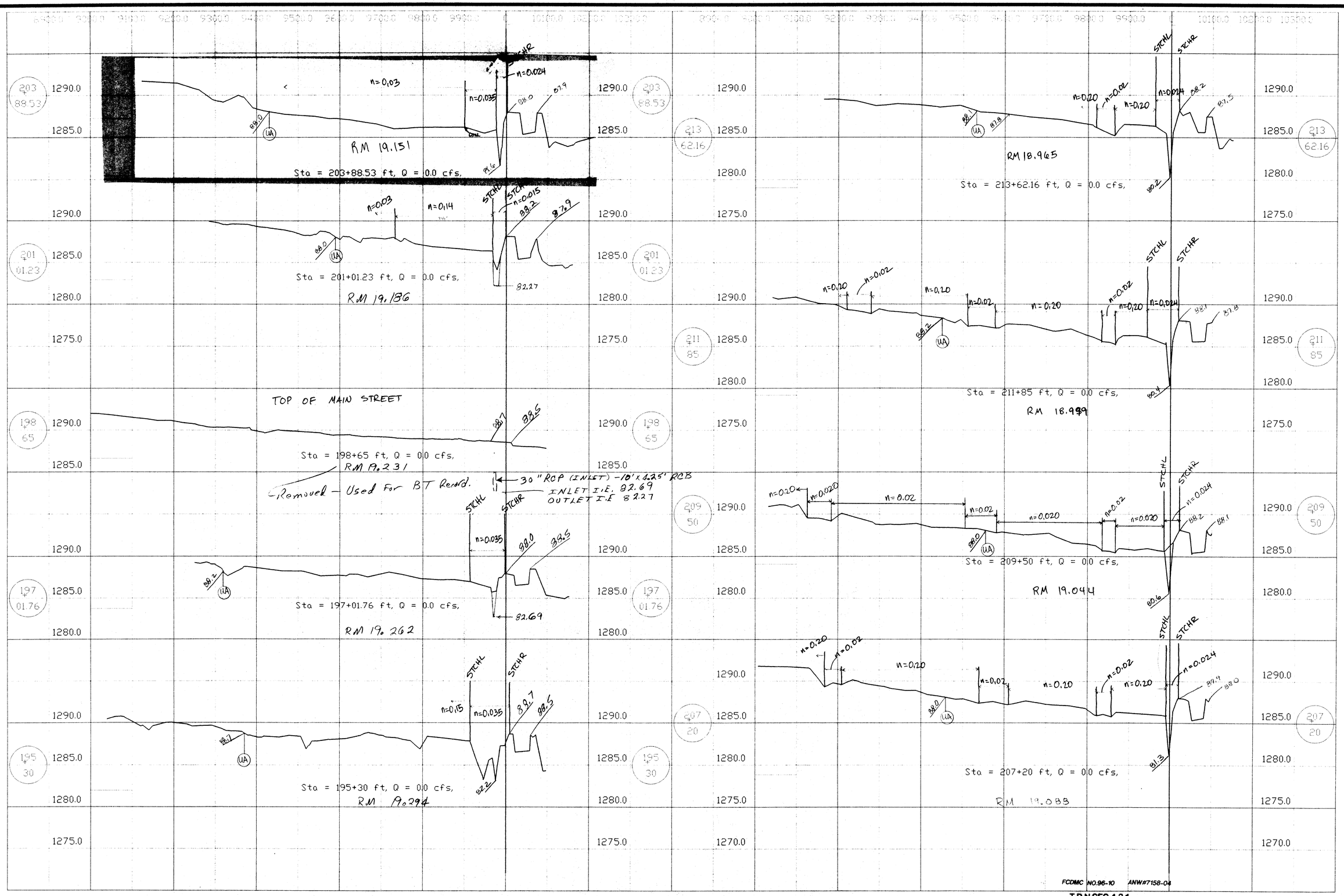

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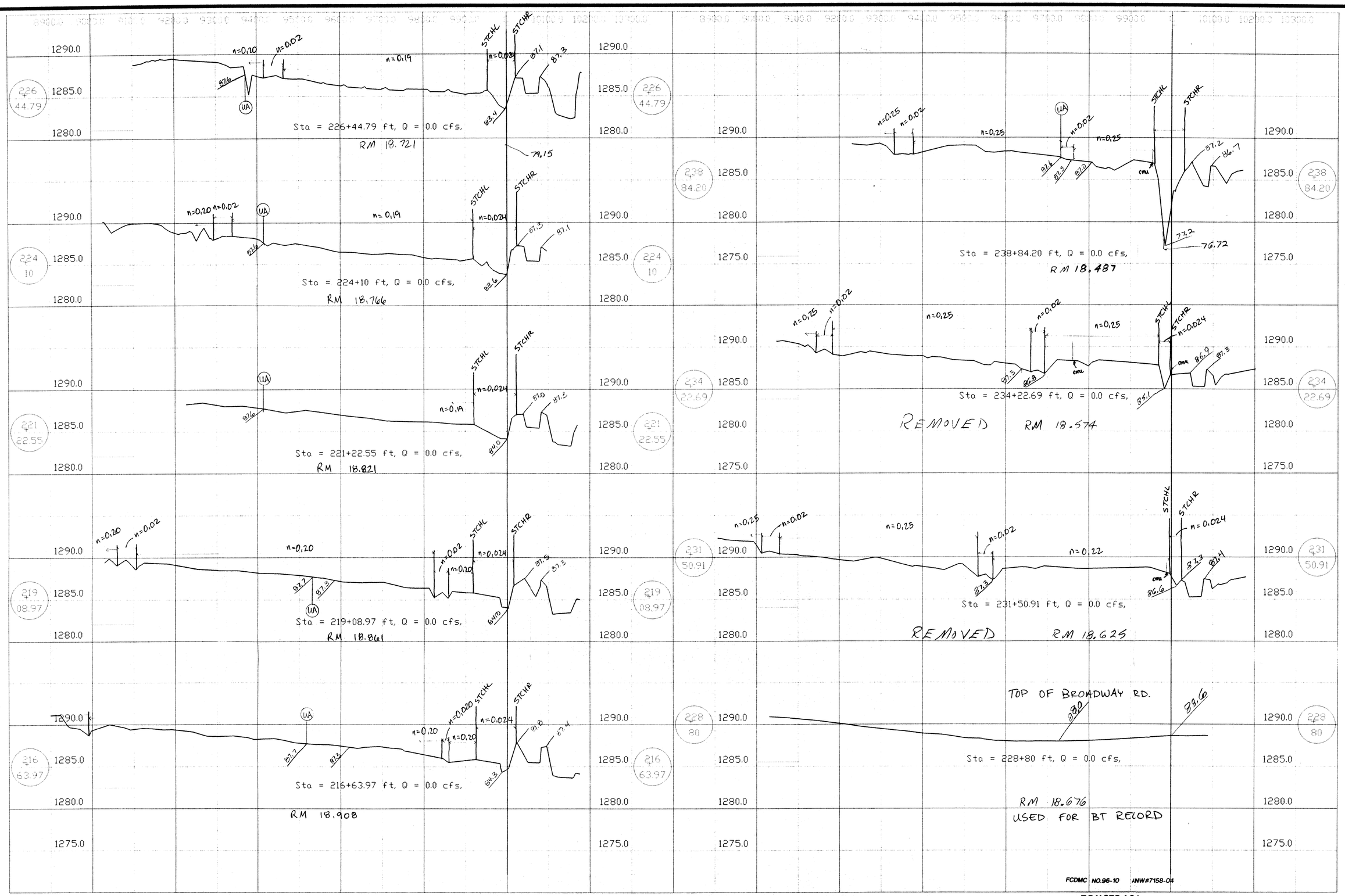

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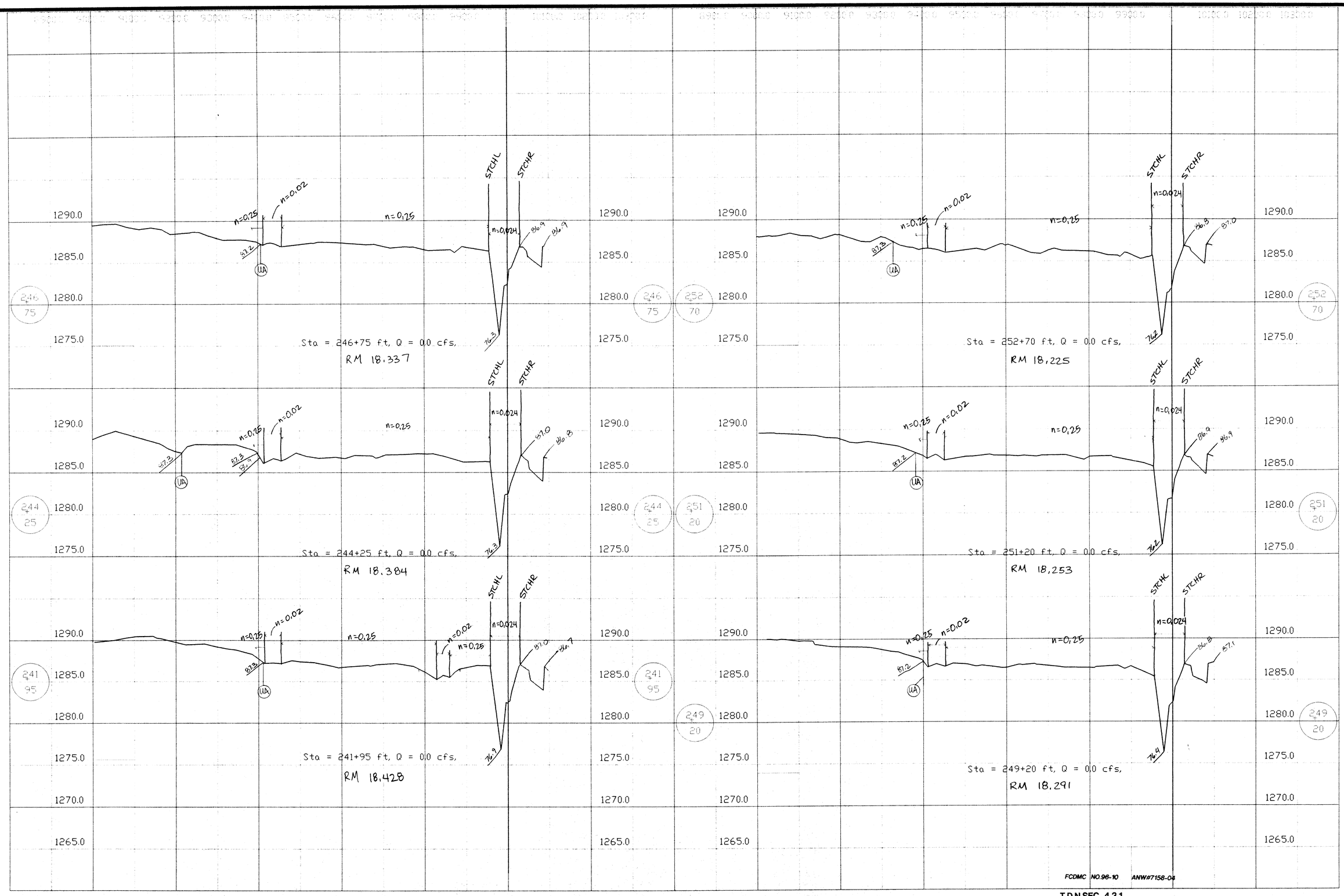

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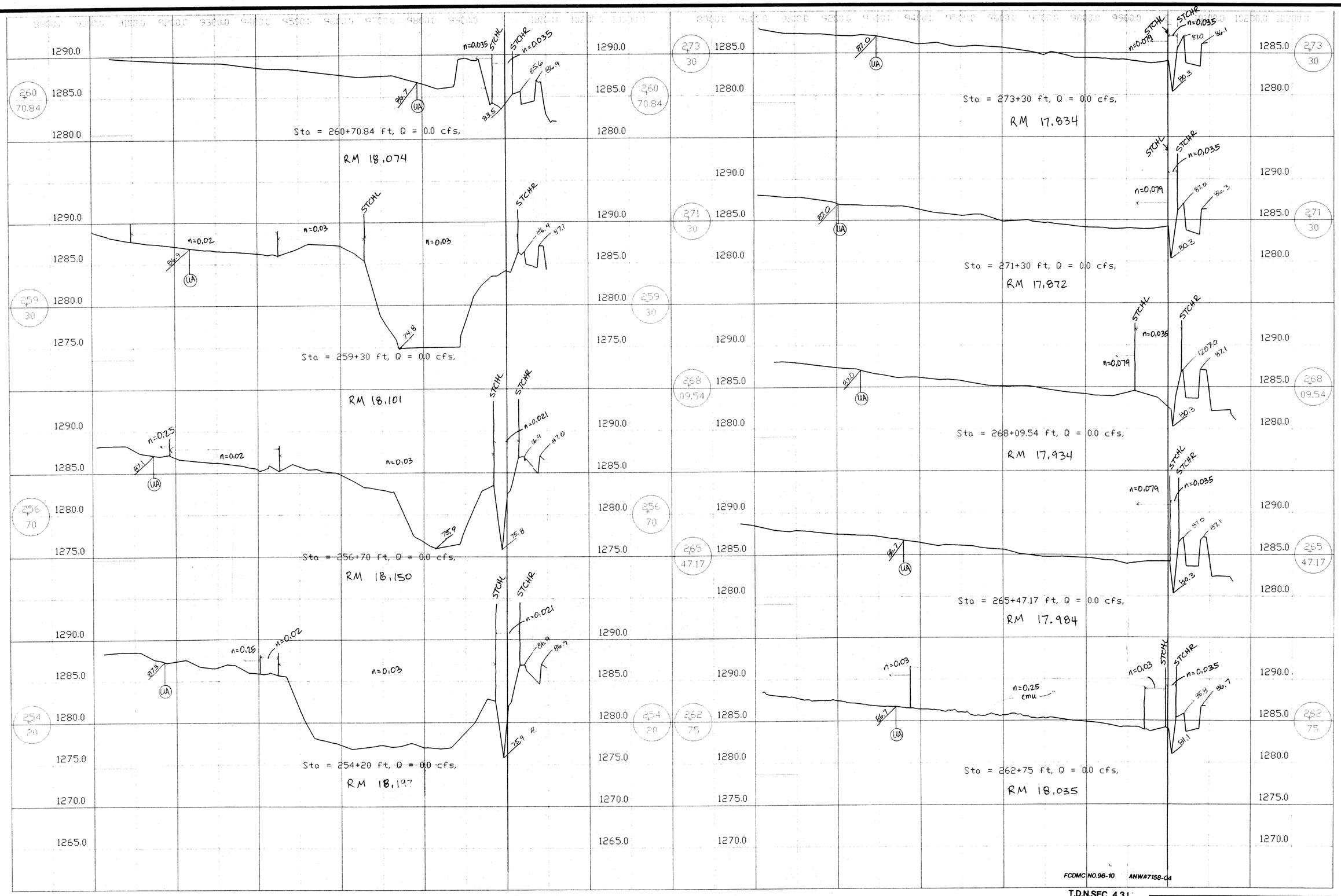

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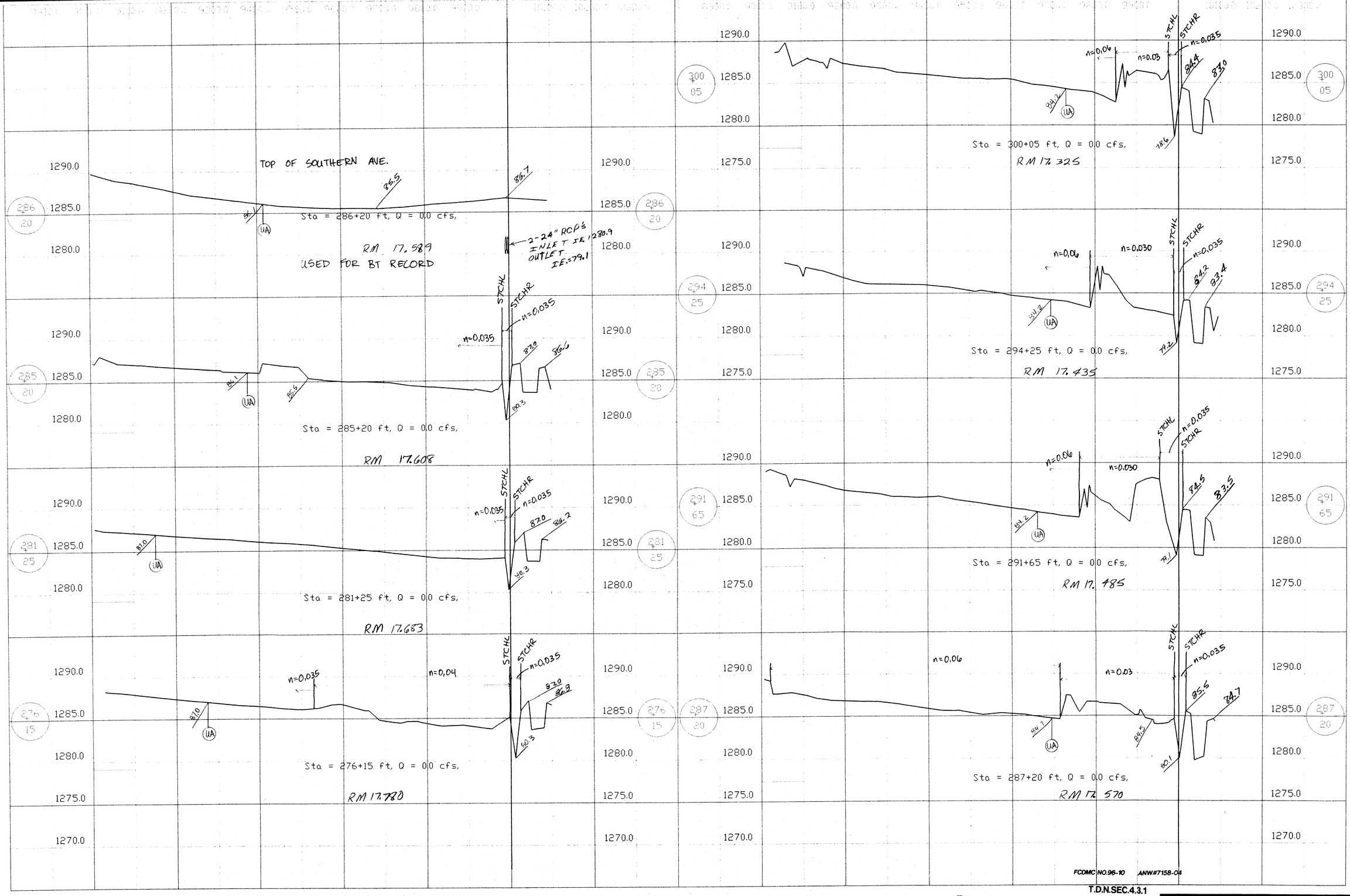

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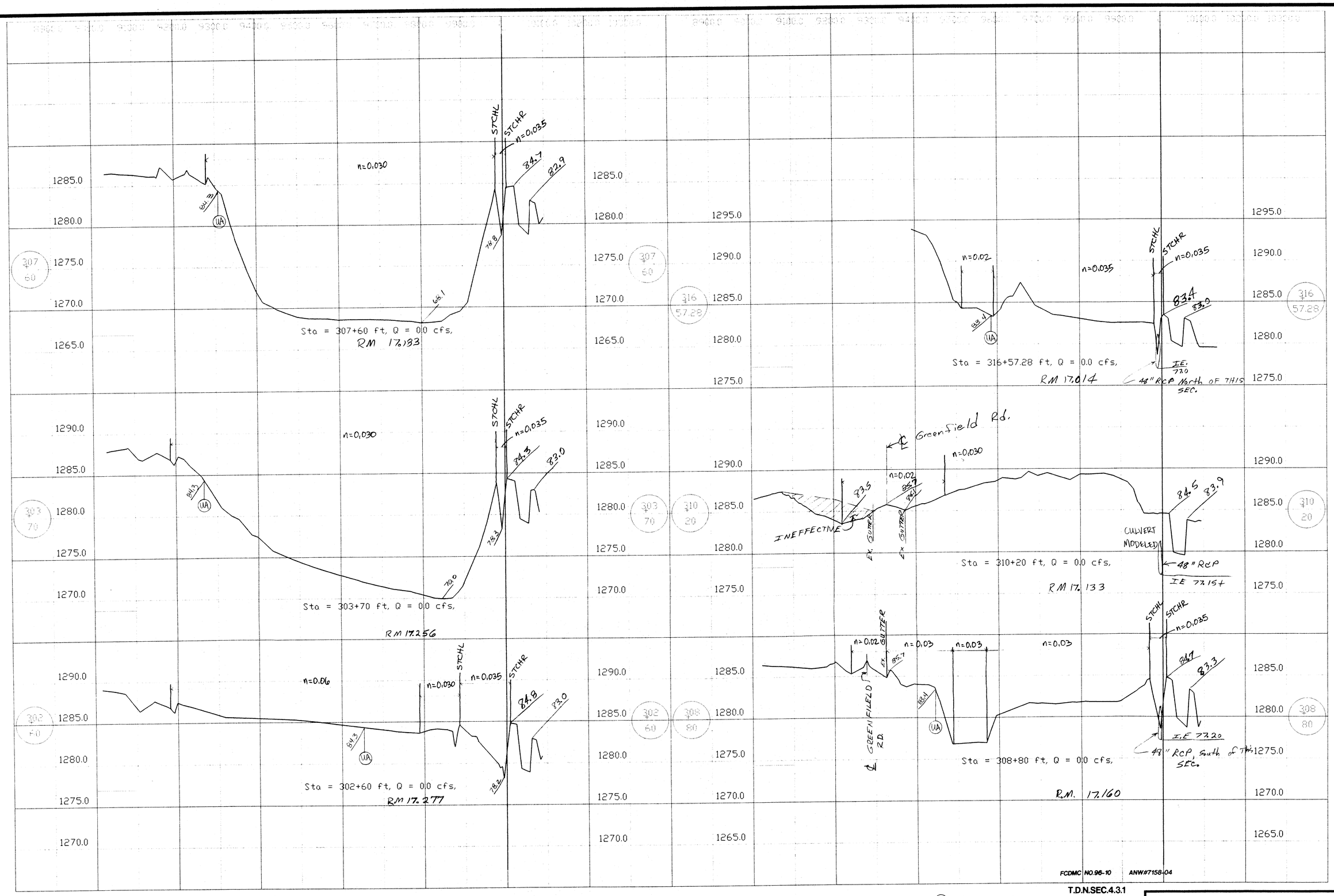

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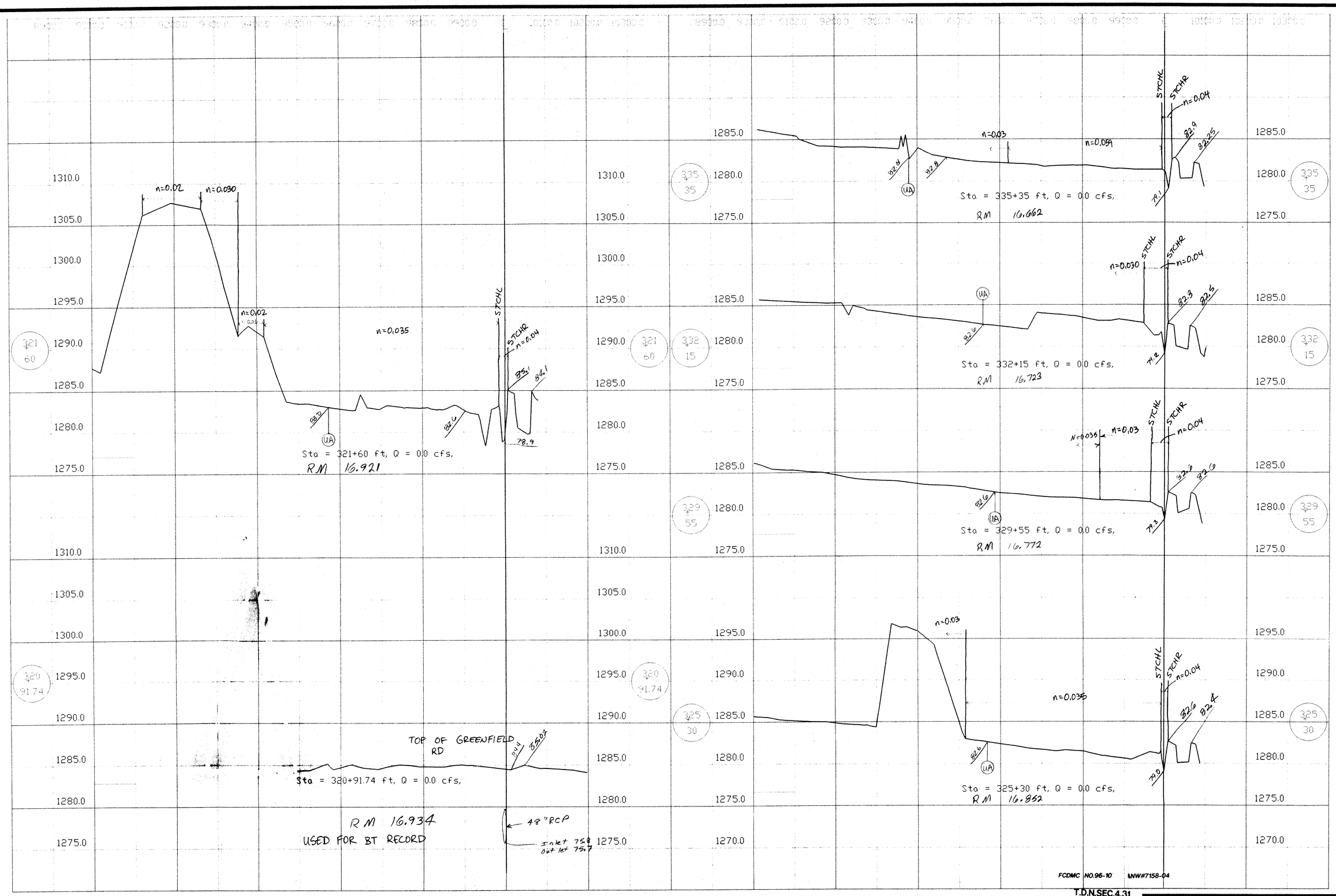

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16/17

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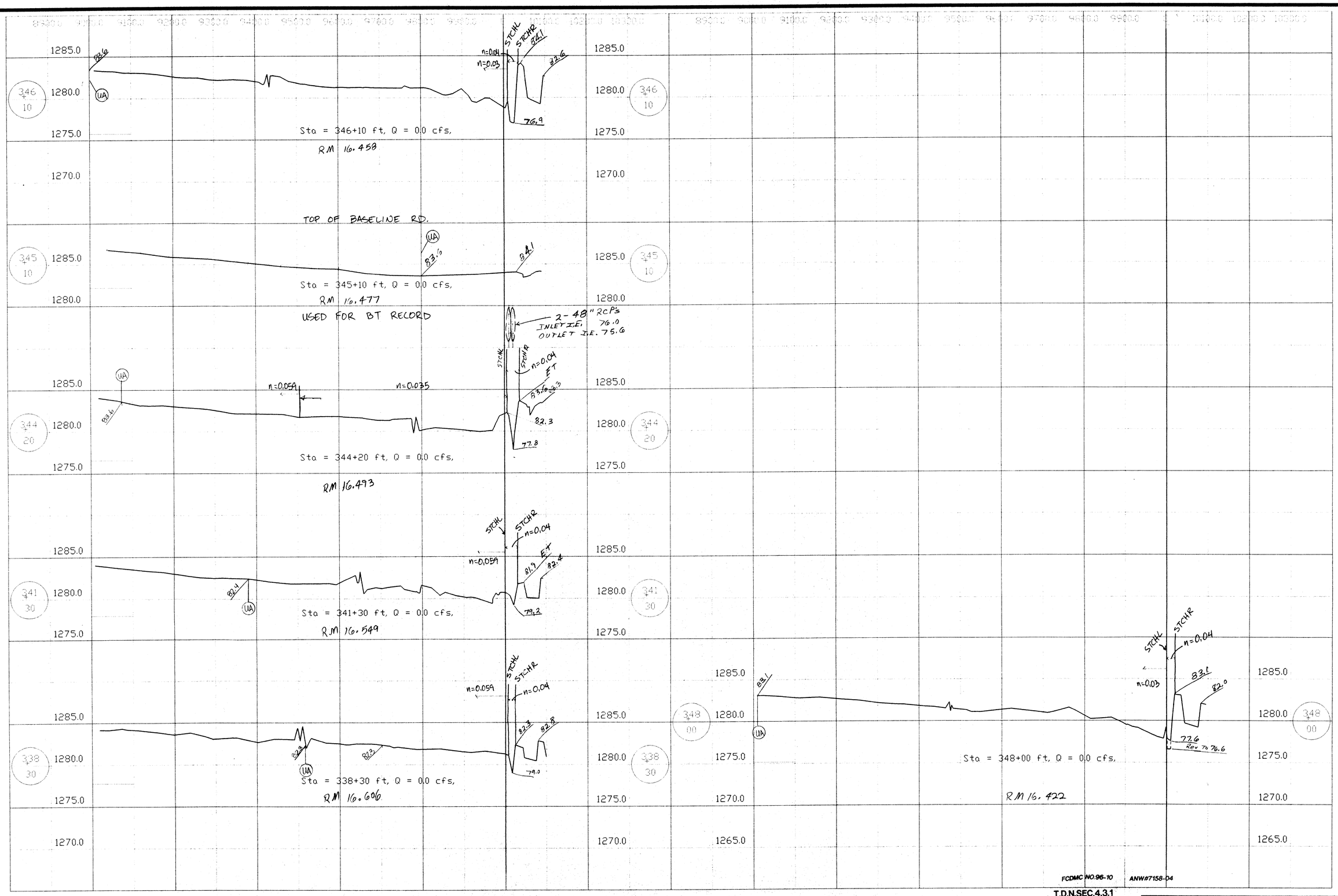

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A-N WEST INC.
Consulting Engineers

May 1, 1997

Mr. Rajh Shah
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009

Re: FCD No. 96-10
Eastern Canal FIS
A-N West No. 7158-04

Dear Mr. Shah:

We herewith transmit the following preliminary data for your review and comment;

1) Two sets of bluelines of preliminary plan view of Eastern Canal (6 sheets)
2) Two sets of preliminary cross-sections plots (17 sheets)
3) Two 3 1/2" disks of preliminary HEC-2 model input/output
4) One hard copy HEC-2 input/output
5) Table 1, Updated Road Crossing and Drainage Structure Summary
6) Table 2, Estimated Culvert Capacity
7) Table 3, Preliminary Summary WSEL Comparison, 100-year discharges with estimated discharge related to Profile 1 (flow at top of east top berm) and Profile 2 (flow at 0.5 foot above east top berm)
8) Preliminary culvert hydraulic calculations by HEC-5 at Baseline Road, Greenfield, U.S. 60, U.S. 60 culvert under Eastern Canal, Southern Avenue, Broadway Road and Main Street
9) ADOT as-built plan of culvert along U.S. 60 under Eastern Canal

Our preliminary culvert analysis by HEC-5 manual method and review of top of canal banks upstream of the culverts indicated that estimated 100-year discharges along the canal greatly exceed the combined capacity of the road dip section (if available) and culvert capacity. In earlier telephone conversations between A-N West and FCDMC regarding the lack of capacity along the canal to convey even a fraction of the computed 100-year discharges, it was suggested that some rating curve analysis be performed initially.

Our preliminary HEC-2 model analysis includes two profiles at this time. The Profile 1 discharges were chosen by trial to obtain a water surface profile which was near the east top of bank of the canal. Top of canal banks are not at a continuous grade and fluctuate in elevation. It was therefore necessary to choose low top of banks for various reaches of the canal from which various discharges were tried until a water surface elevation (WSEL) approximately matched the east top of the canal bank.

Profile 2 was chosen as the discharge which resulted in WSEL's approximately 0.5 foot above the low east top of canal berms. The 0.5 foot above top of east canal berm was chosen as what is anticipated to be the maximum ponding height upstream of the canal. At this ponding height, by weir equation with C=2.8, there would be one (1) CFS weiring over the canal per foot length of weir flow, which would likely pass the 100-year flows over the canal.

4.5(1)

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Table 3 summarizes the preliminary HEC-2 model results. Column 1 shows the preliminary peak 100-year discharges computed along the Eastern Canal. Column 2 shows the HEC-2 cross-section I.D. number in River Miles, which correlates to the plan view, cross-section plots and HEC-2 model.

Columns 3 and 4 are the respective preliminary Profile 1 and 2 discharges modelled in HEC-2.

Columns 5 and 6 are the respective resultant Water Surface Elevations (WSEL's) for the Profile 1 and 2 discharges.

Columns 7 and 8 are the respective upslope (east) and downslope (west) top of canal berm elevations.

We have underlined the upslope top of berm elevations where preliminary Profile 1 WSEL's are close to matching, indicating areas of potential overtopping and breakout for the Profile 1 reach discharge.

We have marked a preliminary floodplain on the plan view exhibit for this Profile 1 HEC-2 model and noted potential breakout areas.

Table 2 and attached culvert calculations show potential maximum culvert capacity with no tailwater (Column 4, Table 2), Profile, HEC-2 Profile 1 culvert capacity (Column 6, Table 2) and a check of HEC-2 model results by HEC-5 (Column 11, Table2).

The 45 " (span) x 29" (rise) x 196 foot long HECP culvert under the Eastern Canal along the ADOT channel on north side of U.S. 60 has a capacity of approximately 102 CFS at top of east canal bank. This discharge may not have been accounted for in the hydrology. A copy of the ADOT as-built plan for this culvert is enclosed with HEC-5 capacity analysis.

We are forwarding a copy of this data to the City of Mesa. We have enclosed an extra copy for your transmittal to the hydrology consultant for their use in possible refinement of the hydrology.

We propose to continue to refine the profile of the canal with associated east and west top of canal banks, culvert and low top of road elevations which will aid in demonstrating the canal over topping problems and lack of capacity along the canal.

It would seem that a detailed floodplain analysis involving a Zone AE along the canal would not be possible due to the numerous overtopping areas.

A more refined approximate Zone A floodplain revision to the current approximate Zone A may be an alternate goal of this study to consider.

Should you have any questions, please call.

Sincerely,

A-N West, Inc.

Greg Schuelke, P.E., R.L.S.
Vice President
Project Manager

Registered Professional Engineer (Civil)
CERTIFICATE NO.
15290
GREGORY A.
SCHUELKE
Date Signed 5/1/97
ARIZONA, U.S.A.

GS/dh

cc: Mr. Peter Knudson, City of Mesa

enclosures

TABLE 1

EASTERN CANAL FIS
UPDATED ROAD CROSSING AND DRAINAGE STRUCTURE SUMMARY

River Mile	Location	Description	Structure Type/Size
16.477	Baseline Road	Major Street with 0.5Foot Dip(2)	2-4' RCP's x 130'/Hdwall and Trsh RK(1)
16.938	Greenfield Rd.	Major Street with no Dip(2)	1-4' RCP x 95'/Hdwall(1)
17.160	U.S. 60 Culvert Under Canal	Culvert along channel under canal	1-45" x 29" x 196' long HECP, mitered inlet (5)
17.160	U.S. 60 Culvert Along Canal	Freeway with overpass, No Dip (2)	1-4' RCP x 730'/Hdwall and ½ TRSH RK) (1)
17.59	Southern Avenue	Major Street with 1.2± foot Dip(2)	2-24" RCP's x 160' with Hdwall (Bell End)(1)
18.680	Broadway Road	Major Street with 0.6± foot Dip(2)	1-6' and 1-4.5' RCP x 1100' with Hdwall and vertical TRSH RK(1)
19.251	Main St. (Apache Blvd)	Major Street, No Dip(2)	Inlet-1-30" RCP x 260' with Hdwall (Bell End)(1). Outlet - 1-10' x 4.25' RCB
19.526	Val Vista Dr.	Major Street, with 1.7± foot Dip(2)	1-30" RCP x 1780' with Hdwall and TRSH RK(3)
19.832	University Dr.	Major Street with 0.5± foot Dip(2)	same as pipe at Val Vista Drive(3)
20.402	Adobe Street	Major Street with 3.3± foot Dip(2)	Approx. 2 foot storm sewer size(3)
20.987	Brown Road	Major Street with 2± foot Dip(2)	Approx. 2 foot storm sewer size(3)
21.529	Lindsay Road	Major Street with 2.3± foot Dip(2)	Approx. 2 foot storm sewer size(3)
22.230	McKellips Road	Major Street with 0.9± foot Dip(2)	1-24" RCP with Hdwall(3)
22.916	Gilbert Road	Major Street with 2.5± foot Dip(2)	No Culvert/S.D.

Notes:

1. Anticipate modeling culverts in HEC-2 model by special culvert option with road profile for weir flow over road or by subtracting the estimated culvert capacity from flow at cross-section locations where culverts are located.
2. Dip denotes road profile which dips or is depressed below adjacent top of road at the canal to cause flow over road before flow over canal on road. Note: flow upstream may be overflowing canal before flow over road occurs.
3. Where storm drain is noted, it is assumed the hydrology modeling reflects storm drain capacity.
4. TRSH RK = Trash Rack. Hdwall = Headwall. RCP = Reinforced Concrete Pipe. RCB = Reinforced Concrete Box Culvert.
5. This 45" span x 29" rise Horizontal Elliptical Concrete Pipe (HECP) conveys flow in concrete channel along north side.

4.5(4)

Eastern Canal FIS
Modeled Culvert Summary
Table 2

Location	Inlet I.E.	Outlet I.E.	Qmax(5) (cfs)	Weir Flow	HEC-2 Q (CFS)	U/S Section RM	Profile 1 (HW) EG	D/S Section RM	(TW) WSEL	HEC_5 Check
Baseline Rd.	1276.02	1275.63	200	0	190	16.493	81.79	16.458	79.97	Outlet Control Q = 160 cfs
Greenfield Rd.	1275.76	1276.22	145	0	60	16.939	83.35	16.921	82.68	Inlet Control Q = 140
U.S. 60 Culvert Along Canal	1277.21	1277.01	95	0	60	17.16	84.26	17.014	83.35	Outlet Control Q = 57
U.S. 60 Culvert Under Canal	1274.11	1273.55	102	0						
Southern Ave.	1280.93	1279.08	58	0	32	17.608	85.58	17.57	84.29	Inlet Control Q = 50 cfs
Broadway Rd. (6; RCP)	1279.15	1276.72	255	0	162	18.721	86.97	18.487	85.96	Outlet Control Q = 112
Broadway Rd. (4.5' RCP)	1279.15	1276.72	142	0	162	18.721	86.97	18.487	85.96	Outlet Control Q = 57
Main St.	1282.69	1282.27	40	0	23	19.262	87.98	19.186	86.98	Outlet Control Q = 22

Note: 5. Qmax assumes Tailwater depth (TW)=(dc+D)/2 (dc=critical depth), Culvert flowing full with inlet Head = outlet Head, effects of trash racks not determined
6. Based on ADOT as built for Superstition Freeway project no. BP-028-1-510, sheet 85 (8/23/90)

4.5(5)

Eastern Canal FIS HEC-2 Profile Run Output Summary Table 3

HEC-1 Q 100 cfs	Sec. No.	Estimate Capacity cfs Profile 1	Profile 2	WSEL Profile 1	Profile 2	Upslope Top of Bank	Downslope Top of Bank	Remarks
	16.422	190	215	79.84	79.94	83.1	82	
	16.458			79.97	80.07	84.1	82.6	Baseline Road Culvert Q 200 WSE 82.2
897	16.493			81.71	82.41	83.6		Baseline Road Culvert, Low Top of Road 83.6
	16.549			81.9	82.41	81.9	82.4	
	16.606			81.98	82.44	82.3	82.8	
	16.662			82.48	82.63	82.9	82.3	
	16.723	60	75	82.6	82.73	82.8	82.5	
869	16.772			82.67	82.8	82.6	82.6	
	16.852			82.69	82.82	82.6	82.4	
	16.921			82.68	82.81	85.1	84.1	Greenfield Road Culvert, Low Top of Road = 85.0
	16.939			83.35	83.86	85.1	84.1	Greenfield Road Culvert
	17.014			83.35	83.86	83.4	83	U.S. 60 Culvert
	17.16	45	50	84.26	84.98	84.7	83.3	U.S. 60 Culvert
1206	17.183			84.26	84.98	84.7	82.9	Holmes Park Detention Basin
	17.256			84.26	84.98	84.3	83	Holmes Park Detention Basin
1081	17.277			84.26	84.98	84.8	83	
	17.325			84.27	84.98	84.4	83	
	17.435			84.28	84.99	84.2	83.4	
	17.485			84.28	84.99	84.5	83.5	
	17.57	32	190	84.29	85	85.5	84.7	Southern Avenue Culvert, Low Top of Road = 85.5
	17.608			85.58	85.89	87	86.6	Southern Avenue Culvert
1097	17.683			85.58	85.9	87	86.2	
	17.78			85.58	85.91	87	86.8	
	17.834			85.58	85.92	87	86.1	
1108	17.872			85.58	85.94	87	86.3	
	17.934			85.58	85.95	87	87.1	
	17.984			85.58	85.97	87	87.1	
	18.035			85.58	86	85.8	86.7	
	18.074			85.59	86.04	85.6	86.9	Greenfield Park Detention Basin
	18.101	162	170	85.59	86.09	86.4	87.1	Greenfield Park Detention Basin
1487	18.15			85.59	86.09	86.9	87	
	18.197			85.59	86.09	86.9	86.9	
	18.225			85.59	86.09	86.8	87	
	18.253			85.59	86.09	86.9	86.9	
	18.291			85.93	86.36	86.8	87.1	
1342	18.337			85.94	86.37	86.9	86.9	
	18.384			85.95	86.38	87	86.8	

4.5(c)

	18.428			85.95	86.38	87	86.7	
1326	18.487			85.96	86.38	87.2	86.7	Broadway Road Culvert, Low Top of Road = 88.0
1293	18.721			86.97	87.5	87.1	87.3	Broadway Road Culvert, Low Top of Road = 88.0
	18.766	23	23	86.98	87.5	87.3	87.1	
	18.821			86.98	87.5	87	87.3	
	18.861			86.98	87.5	87.5	87.3	
	18.908			86.98	87.5	87.8	87.4	
1032	18.965			86.98	87.5	88.2	87.5	
	18.999			86.98	87.5	88.1	87.8	
	19.088			86.98	87.5	87.9	88	
	19.151			86.98	87.5	88	87.9	
1004	19.186			86.98	87.5	88.2	87.9	Main Street Culvert, Low Top of Road = 90.0
	19.262			87.98	88.5	88	88.5	Main Street Culvert, Low Top of Road = 90.0
	19.294	260	430	87.98	88.49	88.7	88.5	
	19.339			88.04	88.58	88.7	88.6	
	19.381			88.08	88.63	88.6	89	
	19.43			88.14	88.72	88.8	88.8	
726	19.473			88.21	88.8	89.5	89.1	
	19.502			88.29	88.29			Val Vista Road, Low Top of Road = 87.3
	19.623			88.42	88.93	88.7	89.3	
	19.67			88.45	88.97	88.5	88.9	
	19.716			88.48	88.99	88.5	88.9	
	19.764			88.7	89.19	88.7	88.8	
767	19.808	1	1	88.85	89.29			University Drive
	19.83			88.85	89.29	89.3	89.1	Low Top of Road 88.7
	19.871			88.85	89.29	88.5	88.8	
	19.924			88.85	89.29	88.5	88.4	
	19.971			88.85	89.29	88.7	88.7	
	20.015			88.85	89.29	88.5	88.6	Overtops Bank
	20.051			88.85	89.29	88.2	88.9	Overtops Bank
	20.082			88.85	89.29	88.7	89.1	
	20.139			88.85	89.29	88.7	89.2	
	20.179			88.85	89.29	89.2	89.4	
781	20.244			88.85	89.29	89.4	90.3	Ridge
	20.289			88.85	89.29	89.3	89.8	
	20.324			88.85	89.29	89.1	90	
	20.379			88.85	89.29			Adobe Street, Low Top of Road = 88.2
	20.393	35	85	88.85	89.29	89.26	90.5	
	20.432			88.85	89.29	89.2	90.5	
	20.465			88.85	89.29	89	90.7	
	20.515			89	89.43	89.3	90.7	

4.5(7)

	20.559			89.06	89.53	89.2	90.7	
692	20.608			89.12	89.59	89.4	90.8	
	20.651			89.17	89.65	89.2	90.8	
	20.676			89.22	89.71	89.5	90.8	
	20.727			89.26	89.76	89.6	90.6	
	20.768			89.27	89.78	89.3	91	
703	20.815			89.29	89.8	89.3	90.4	
	20.87			89.31	89.84	89.4	90.4	
	20.912			89.45	89.97	89.7	90.3	
	20.963	130	330	90.93	91.13			Brown Road, Low Top of Road = 90.5
	20.974			91.08	91.33			
	21.02			91.08	91.34	91.3	91.5	
	21.088			91.08	91.34	91.5	91.1	
	21.137			91.08	91.34	91.4	91.1	
	21.196			91.09	91.38	91.4	91.2	
	21.256			91.14	91.53	91.8	91.3	
637	21.315			91.23	91.74	91.3	91.7	
	21.375			91.29	91.8	91.3	91.7	
	21.432			91.3	91.81	91.5	91.6	
	21.463			91.31	91.82	91.8	92.8	
	21.492	1	1	91.34	91.87	90.6	91.5	Lindsay Road, Low Top of Road = 91.2 (Overtops Bank)
	21.603			91.35	91.87	90.6	91.5	
216	21.665			91.35	91.87	91	92.3	
	21.716			91.35	91.87	91.3	92.3	
	21.774			91.35	91.87	91.3	91.7	
	21.819			91.35	91.87	91.5	91.8	
	21.859			91.35	91.87	91.5	91.5	
	21.914			91.35	91.87	91.2	91.1	
218	21.963			91.35	91.87	91.1	91.4	
	22.014			91.35	91.87	91.9	92	
	22.063			91.35	91.87	91.6	91.8	
	22.112			91.35	91.87	92	92	
240	22.208	100	275	92.92	93.08			McKellips Road, Low Top of Road = 92.8
	22.236			93.03	93.26	94.2	94.1	
	22.283			93.66	93.88	94.6	95.3	
	22.304			93.94	94.33	94.3	95.2	Ridge
	22.35			93.98	94.43	94.2	94.6	
	22.401			93.99	94.46	94.2	94.6	
	22.444			94	94.49	94	95.3	
333	22.488			94.01	94.52	94	95.2	
	22.541	215	305	94.02	94.53	94.7	95.3	

4.5(8)

	22.571		94.02	94.53	94.7	95.2
	22.609		94.02	94.53	94.2	95.2
	22.636		94.01	94.53	94.2	94.8
	22.695		94.1	94.6	94.1	94.5
	22.744	94.12	~~91.87~~	94.63	94.2	94.6
273	22.798		94.15	94.65	94.5	94.8
	22.849		94.18	94.68	94.8	94.6
	22.932		94.24	94.71	94.5	94.8
	22.976		94.24	94.71	94.5	95.8

4.5(9)

PROJECT: Eastern Canal
Baseline Rd, Culvert

DESIGNER: J.P.
DATE: 4/2/97 Rev. 4/29/97

HYDROLOGIC AND CHANNEL INFORMATION

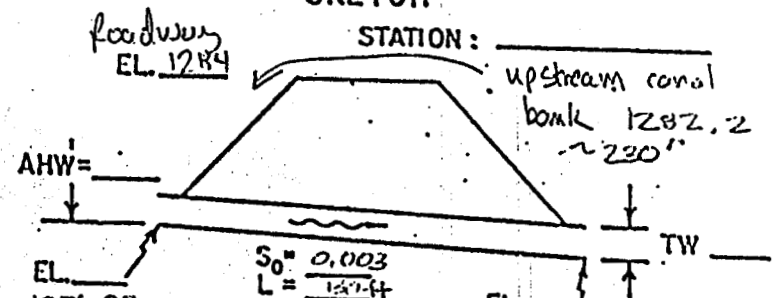
2 4' RCPs with Trash rack
30° from vertical
D = 4 ft.

Q_1 = _____ TW_1 = _____
Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



MEAN STREAM VELOCITY = _____
MAX. STREAM VELOCITY = _____

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. $\frac{HW}{D}$	HW	OUTLET CONTROL $HW = H + h_o - LS_o$: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_o	LS_o	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Sqr edge - HW	110	48"	1.5	6.18	0.5	3.3	3.2	3.6		3.6	0.39	6.51	6.51			OUTLET CONT.
	105	48"	1.5	6.18	0.5	3.0	3.2	3.6		3.6	0.39	6.21	6.21			" "
→	100	48"	1.5	6.18	0.5	2.8	3.2	3.6		3.6	0.39	6.01	6.18			INLET CONTROL
	80	48"	1.4	5.69	0.5	1.82	—	—	4.34	4.34	0.39	5.77	5.77			OUTLET CONT. Q = 80

4.5(10)

HEC2 RESULTS
TW = 79.97
HW = 81.71

SUMMARY & RECOMMENDATIONS:

Multiply X2 = 200 cfs. Trash rack effect on entrance loss assumed negligible.

HEC 2 Results X 2 = 160 cfs

PROJECT: Eastern Canal
Greenfield Rd.

DESIGNER: DB

DATE: 4/2/97 Rev. 4/29/97

HYDROLOGIC AND CHANNEL INFORMATION

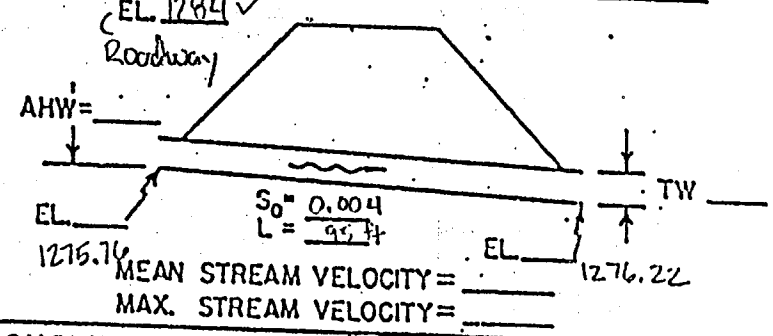
4' RCP

Q_1 = _____ TW_1 = _____
Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL HW=H+h_o−LS_o: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_o	LS_o	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Sqr edge - HW	145	48"	2.06	8.24	0.5	3.8	3.45	3.73	—	3.73	0.46	7.07	8.24			INLET CONT.
	60	48"	1.90	7.59	0.5	0.67	—	—	6.46	6.46	0.46	6.67	7.59			INLET CONT

4.5(11)

HEC2
Profile 1
HW = 83.35
TW = 82.68

Q = 140

SUMMARY & RECOMMENDATIONS:

Q_{max} = 145 cfs.

PROJECT: U.S. 60

DESIGNER: A.B.

DATE: 4/2/97

HYDROLOGIC AND CHANNEL INFORMATION

48" RCP – Square edge (HW)

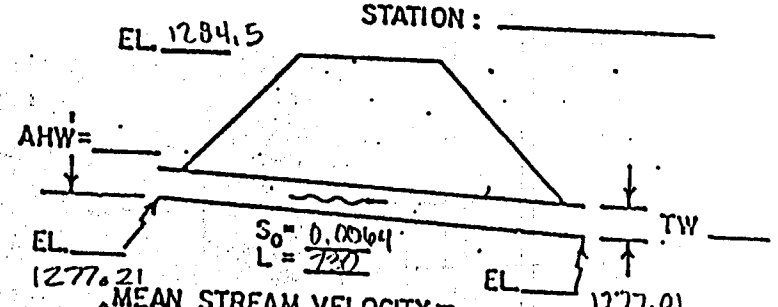
Q_1 = _____ TW_1 = _____

Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



MEAN STREAM VELOCITY= _____

MAX. STREAM VELOCITY= _____

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL HW=H+h_o−LS_o: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_o	LS_o	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Sqr. edge HW	130	4'	1.82	7.29	0.5	7.56	3.4	3.7		3.7	0.2	11.06	11.06			OUTLET CONT - decrease Q
	125	↓	↓	↓	↓	7.0	3.35	3.68		3.68	0.2	10.48	10.48			" " " "
	100					4.5	3.1	3.55		3.55	0.2	7.85	7.85			" " "
	90					3.6	2.8	3.4		3.4	0.2	6.8	7.29			INLET CONT. increase Q
	95	4	1.82	7.29	0.5	4.0	2.9	3.45		3.45	0.2	7.25	7.29			~max Q
→	57	4	1.76	7.05	0.5	0.91	—	—	6.34	6.34	0.2	7.05				OUTLET CONT/INLET C

4.5(12)

HEC 2
Profile 1
HW = 84.26
TW = 83.35

SUMMARY & RECOMMENDATIONS:

Q_{max} = 95 cfs

ADOT · Culvert

PROJECT: _____ DESIGNER: DB

ADOT Culvert Under Eastern Canal along U.S. 60 N, S.C. DATE: 8/3

HYDROLOGIC AND CHANNEL INFORMATION

D = 2.42'

29"X45" X 196' Elliptical. RCP (Horizontal)

Equiv. Dia = 36"

Mitered.

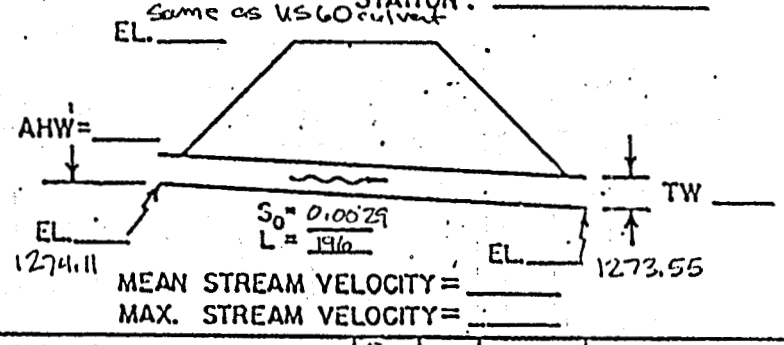
Q_1 = _____ TW_1 = _____

Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



MEAN STREAM VELOCITY = _____

MAX. STREAM VELOCITY = _____

ELEVATIONS ARE NOT BASED ON SAME DATUM REFERENCE AS 5/12/97 SURVEY (OTHER CULVERT) ± 0.6 ft

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q =	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL HW=H+h_0−LS_0: K_c	H	d_c	$\frac{d_c+D}{2}$	TW	h_0	LS_0	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Mitered, HW	110	29X45	4.29	10.39	0.5	9.6	2.42	2.42	2.06	2.42	0.56	11.46	11.46			d_c = D OUTLET control (decrease Q)
	100					7.75	2.42	2.42	1.97	2.42	0.56	9.61	10.39			d_c=D; inlet control (increase Q)
	105					8.75	2.42	2.42	2.02	2.42	0.56	10.61	10.61			d_c=D OUTLET CONT (decrease Q)
	102					8.2	2.42	2.42	1.99	2.42	0.56	10.06	10.39			Inlet cont. ~ Qmax

4.5(3)

SUMMARY & RECOMMENDATIONS:

TW determined from Flowmaster, n=0.012, trapezoidal channel 2:1 sideslope, 0.00425 watercourse slope

Qmax ≈ 102 cfs.

PROJECT: Southern Ave.

DESIGNER: HB

DATE: 4/2/97 Rev. 4/29/97

HYDROLOGIC AND CHANNEL INFORMATION

(2) 24" RCP

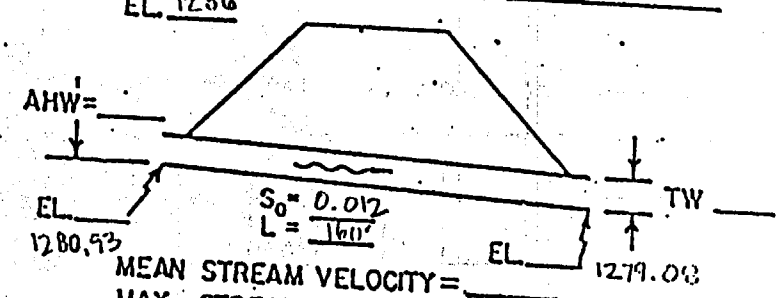
Q_1 = _____ TW_1 = _____

Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



MEAN STREAM VELOCITY= _____

MAX. STREAM VELOCITY= _____

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q (cfs)	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL HW=H+h_o−LS_o: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_o	LS_o	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Bell	29	2	2.5	5.07	0.2	3.9	1.8	1.9		1.9	1.92	3.88	5.07			INLET CONT.
	16	2	1.86	4.65	0.2	1.29	—	—	5.21	5.21	1.92	4.58	4.65			INLET CONT.

HEC 2 (4.5(19)) Profile 1
TW= 8429
HW = 8550

Q = 25 cfs
x2 = 50 cfs

SUMMARY & RECOMMENDATIONS:

Multiply X2 Q_{max} = 58 cfs. HEC 2 Profile 1: Q_{max} = 34 cfs

PROJECT: Broadway Rd.

DESIGNER: MB

DATE: 4/2/97 Rev. 4/20/97

HYDROLOGIC AND CHANNEL INFORMATION

(1) 6' Sqr Edge HW

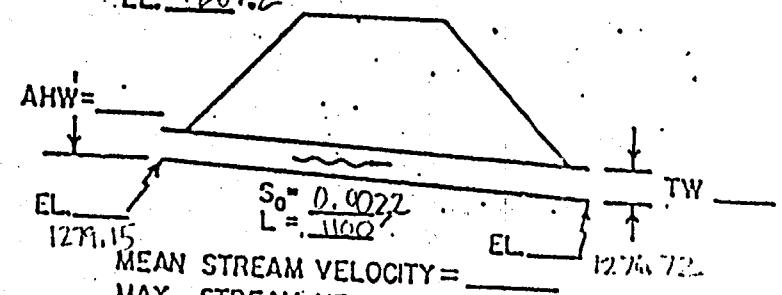
Q_1 = _____ TW_1 = _____

Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



MEAN STREAM VELOCITY = _____

MAX. STREAM VELOCITY = _____

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL HW=H+h_o−LS_o: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_o	LS_o	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Sqr-edge HW	280	6	1.34	8.05	0.5	6.4*	4.7	5.35		5.35	2.42	9.33	9.33			Outlet Cont.
↓	250	↓	↓	↓	↓	5.1*	4.3	5.15		5.15	2.42	7.83	8.05			Inlet Cont.
↓	260	↓	↓	↓	↓	5.5*	4.4	5.2		5.2	2.42	8.28	8.28			Outlet Cont.
	255	6	1.34	8.06	0.5	5.3*	4.35	5.18		5.18	2.42	8.06	8.06			Inlet Cont.
	112	6	1.30	7.82	0.5	1.01	—	—	9.24	9.24	2.42	7.83	7.83			Outlet Control, Q=11

SUMMARY & RECOMMENDATIONS:
* Big excel spreadsheet.

Q_{max} (6' RCP) ≈ 255 cfs.

Total = 397 cfs

HEC 2 Profile 1; Total = 36 + 18 = 54 cfs.

4.5(5)

HEC 2 Profile 1
TW = 85.96
HW = 86.57

Reduce Q
Increase
Size 6

PROJECT: Broadway Rd.

DESIGNER: MB

DATE: 4/2/97

HYDROLOGIC AND CHANNEL INFORMATION

(1) 4.5'. Groove end.

Q_1 = _____ TW_1 = _____

Q_2 = _____ TW_2 = _____

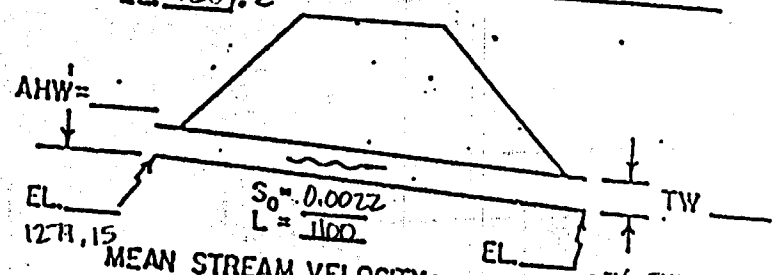
(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

Roadway = 1288

Canal bank EL. 1287.2

STATION: _____



MEAN STREAM VELOCITY = _____

MAX. STREAM VELOCITY = _____

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	HW	OUTLET CONTROL HW=H+h_o−LS$_o$: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_o	LS$_o$	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
Groove end-HW	180	4.5	1.79	8.05	0.2	10.2	3.85	4.18		4.18	2.42	11.96	11.96			
	150					7.1	3.65	4.03		4.03	2.42	8.71	8.71			Outlet Cont
	135					5.7	3.4	3.95		3.95	2.42	7.73	8.05			" "
	140					6.2	3.45	3.98		3.98	2.42	7.76	8.05			Inlet Cont
	145					6.6	3.5	4.0		4.0	2.42	8.18	8.10			" "
	142	4.5	1.79	8.05	0.2	6.3	3.47	3.99		3.99	2.42	7.87	8.05			Outlet Cont
	57	4.5	1.74	7.82	0.2	1.01	—	—	9.24	9.24	2.42	7.83	7.83			Inlet Cont
		4.5	1.74	7.8												Outlet Cont. Q=57

Iter. 2
Profile 1
HW = TW = same

4.5 (16)

Decr.
Decr.
Incr.
Incr.
Decr.

SUMMARY & RECOMMENDATIONS:

*By excel spreadsheet:

$Q_{max} \simeq 142$ cfs

PROJECT: Main Street Culvert

DESIGNER: AB

DATE: 4/3/97 Rev. 4/29/97

HYDROLOGIC AND CHANNEL INFORMATION

(1) 30" RCP with another culvert joining to form 8'x3' RCB.

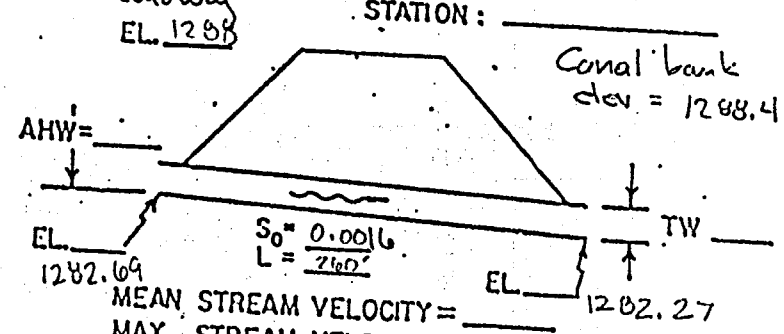
Q_1 = _____ TW_1 = _____

Q_2 = _____ TW_2 = _____

(Q_1 = DESIGN DISCHARGE, SAY Q_{25}
Q_2 = CHECK DISCHARGE, SAY Q_{50} OR Q_{100})

SKETCH

STATION: _____



MEAN STREAM VELOCITY = _____

MAX. STREAM VELOCITY = _____

CULVERT DESCRIPTION (ENTRANCE TYPE)	Q	SIZE	HEADWATER COMPUTATION: INLET CONT. HW/D	INLET CONT. HW	OUTLET CONTROL HW=H+h_0−LS_0: K_e	H	d_c	$\frac{d_c+D}{2}$	TW	h_0	LS_0	HW	CONTROLLING HW	OUTLET VELOCITY	COST	COMMENTS
groove (HW)	45	2.5	2.12	5.31	0.2	4.3	2.25	2.38		2.38	0.42	6.26	6.26			OUTLET CONT.
	40	2.5	2.12	5.31	0.2	3.4	2.2	2.35		2.35	0.42	5.33	5.32			~INLET CONT.
	22	2.5	1.72	4.29	0.2	1.0	—	—	5.71	5.71	0.42	6.29	6.29			OUTLET CONT. Q=22

SUMMARY & RECOMMENDATIONS:

Q_{max} = 40 cfs.

4.5(17) HEC-2 RESULTS TW=' HW

Reduce max. Q

PLAN AND PROFILE OF PROPOSED

STATE HIGHWAY

SUPERSTITION FREEWAY

MARICOPA COUNTY

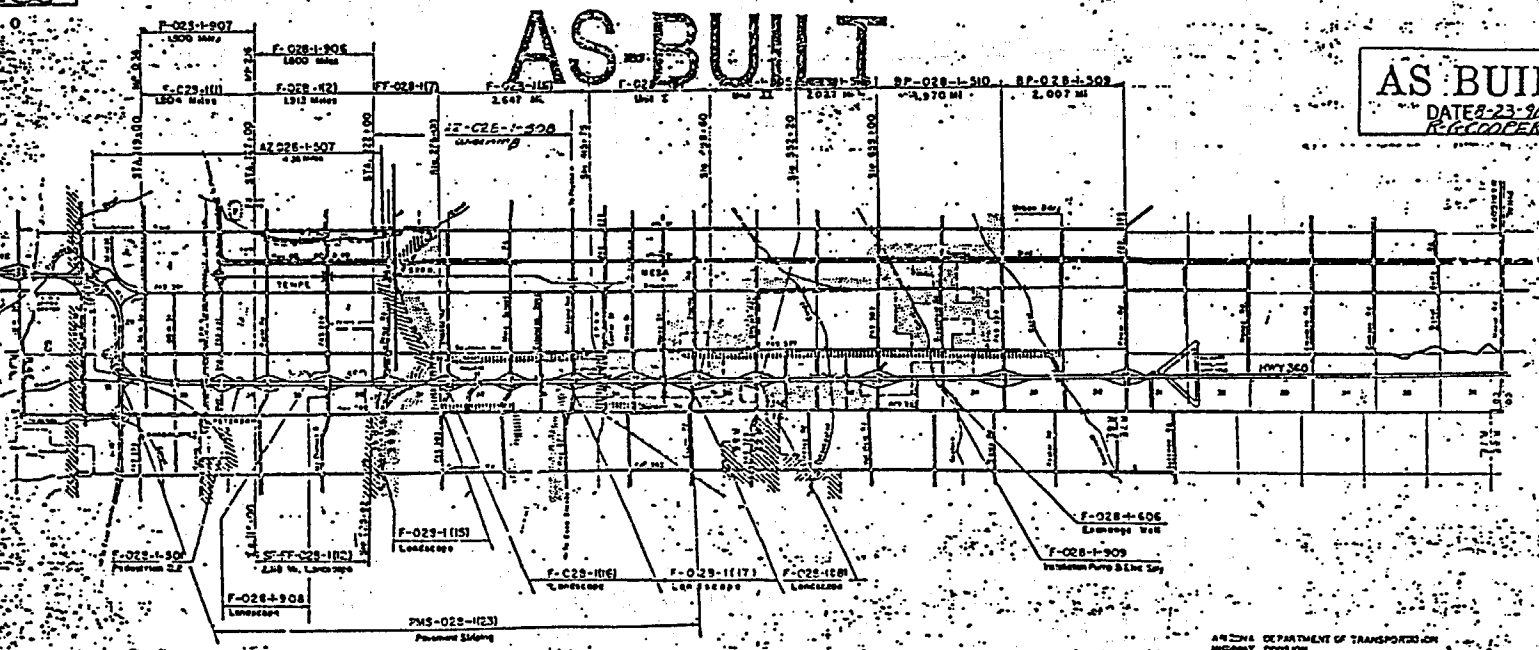
BP-028-1-510

ENGINEERING RECORDS
MAR 26 1991
FILE COPY

ENGINEERING RECORDS
MAR 26 1991
FILE COPY

AS BUILT

AS BUILT
DATE 8-23-90
R.G. COOPER



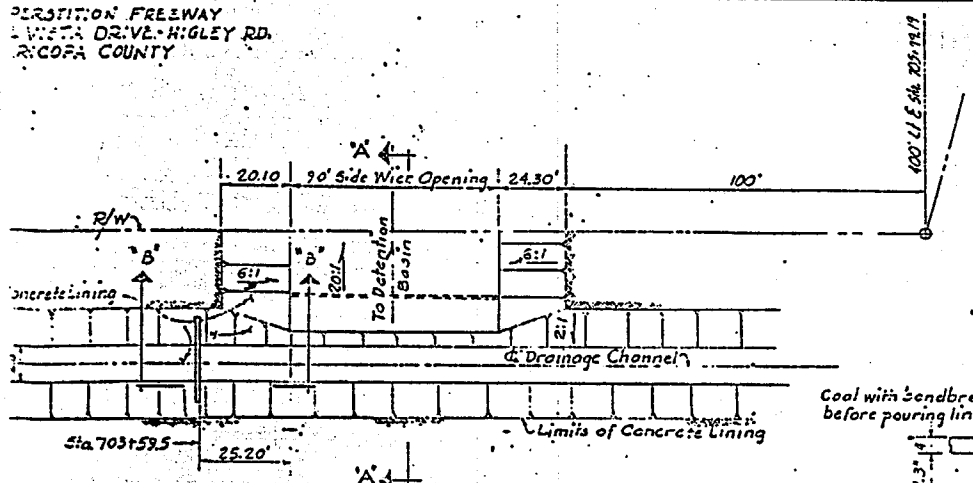
PROPERTY OF A.D.O.T.
RETURN TO ENGINEERING
RECORDS

PROPERTY OF A.D.O.T.
RETURN TO ENGINEERING
RECORDS

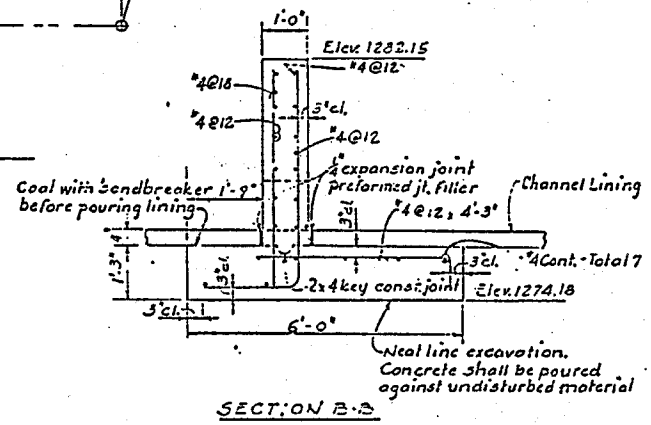
4.5(18)

PERIMETER FREEWAY
VISTA DRIVE-HIGLEY RD.
MARICOPA COUNTY

1		BP-028-1-510	55	2655-33	



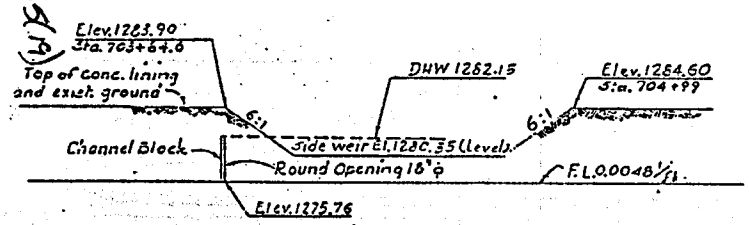
PLAN
No Scale



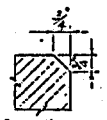
SECTION B-B

GENERAL NOTES

Construction - Standard Specifications Arizona Highway Department Edition of 1982 revised to date.
Design - AASHTO Standard Specifications for Highway Bridges 1977, revised to date.
Stresses - f'c = 2500psi - Class B concrete
fs = 20,000psi - Class 40 reinforcing steel.
All concrete shall be Class B, f'c = 2500psi
Reinforcing steel shall conform to ASTM Specification A615, Grade 40
Welded wire fabric shall conform to ASTM Specifications A185.
All reinforcing steel dimensions shall be to center of bars unless noted otherwise.
All reinforcing steel shall have 2" clear cover unless noted otherwise.
Construction joints through lining shall be located at an interval of 20 feet maximum or as directed by the Engineer.
Allowable soil pressure = 2 Tons/Sq. Ft.
Dimensions shall not be scaled from drawings.

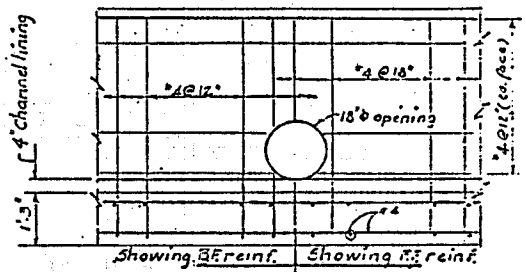


ELEVATION

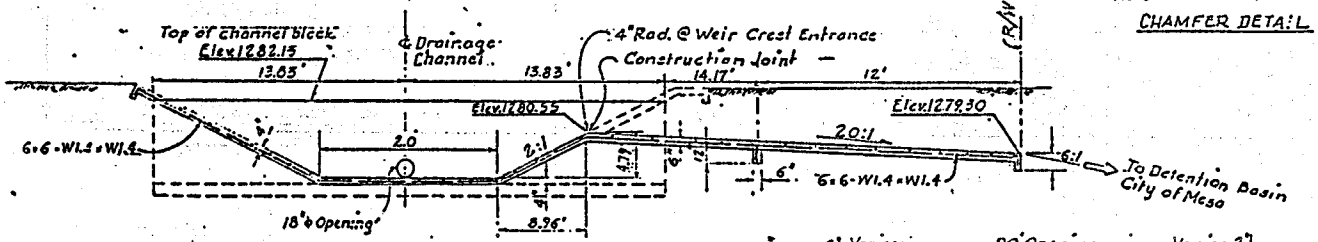


Chamfer all exposed corners thus unless otherwise noted.

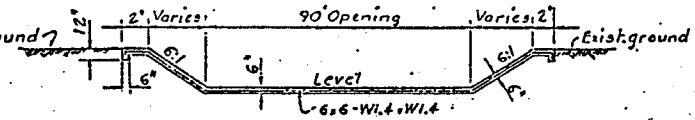
CHAMFER DETAIL



OPENING ELEVATION



SECTION A-A



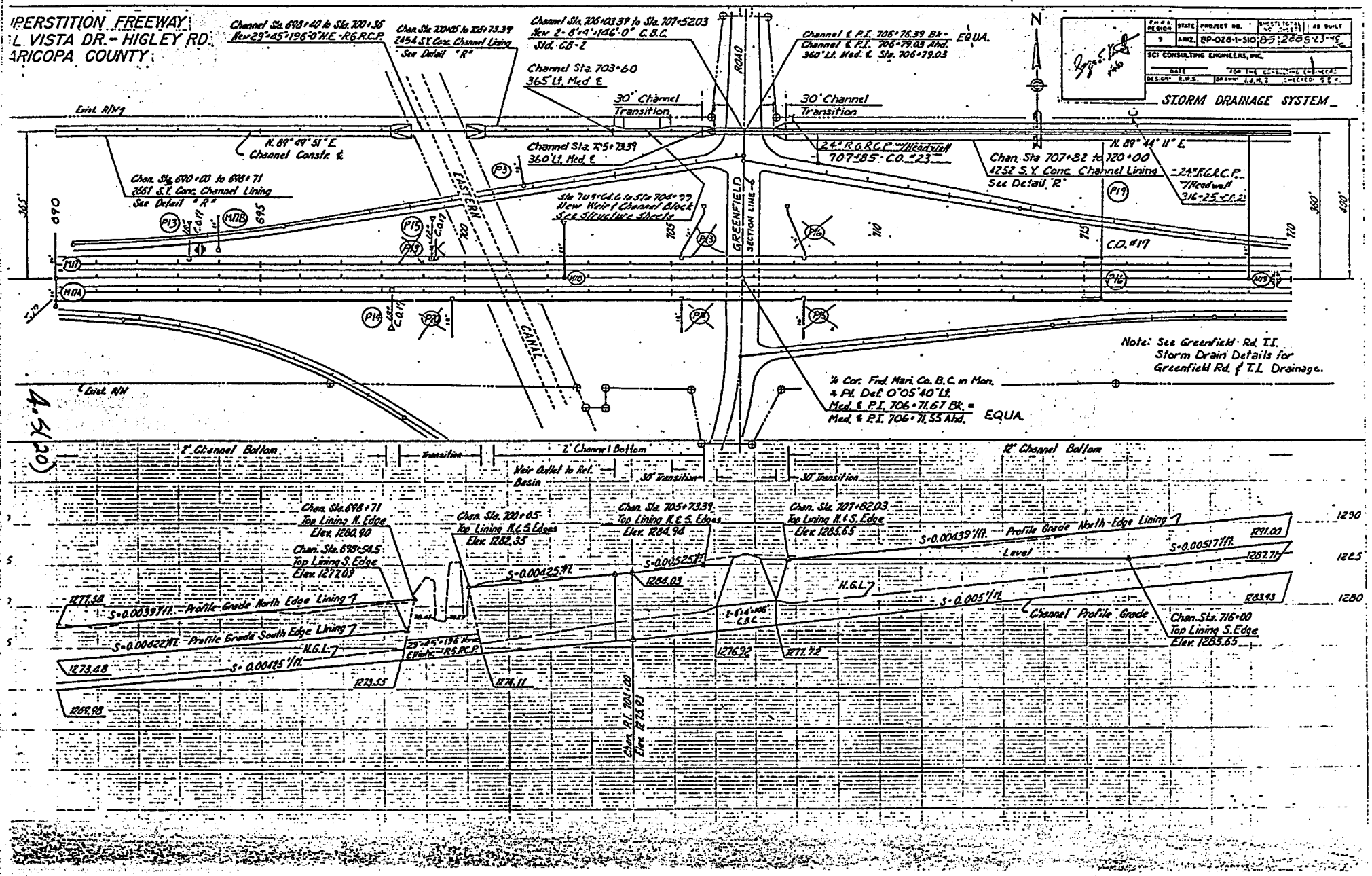
APPROX. QUANTITIES (for informational purposes only)

	Concrete	Reinforcing Steel	6x6-W1.4xW1.4 Wire Fabric	Str. Excav.
Chan Block	14.6 C.Y.	760 lbs.	- -	15 C.Y.
Wier	38 C.Y.	—	38 S.Y.	—

		DATE
DESIGN	R.R.	7-88
DRAWN	A.A.	7-88

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRUCTURES SECTION

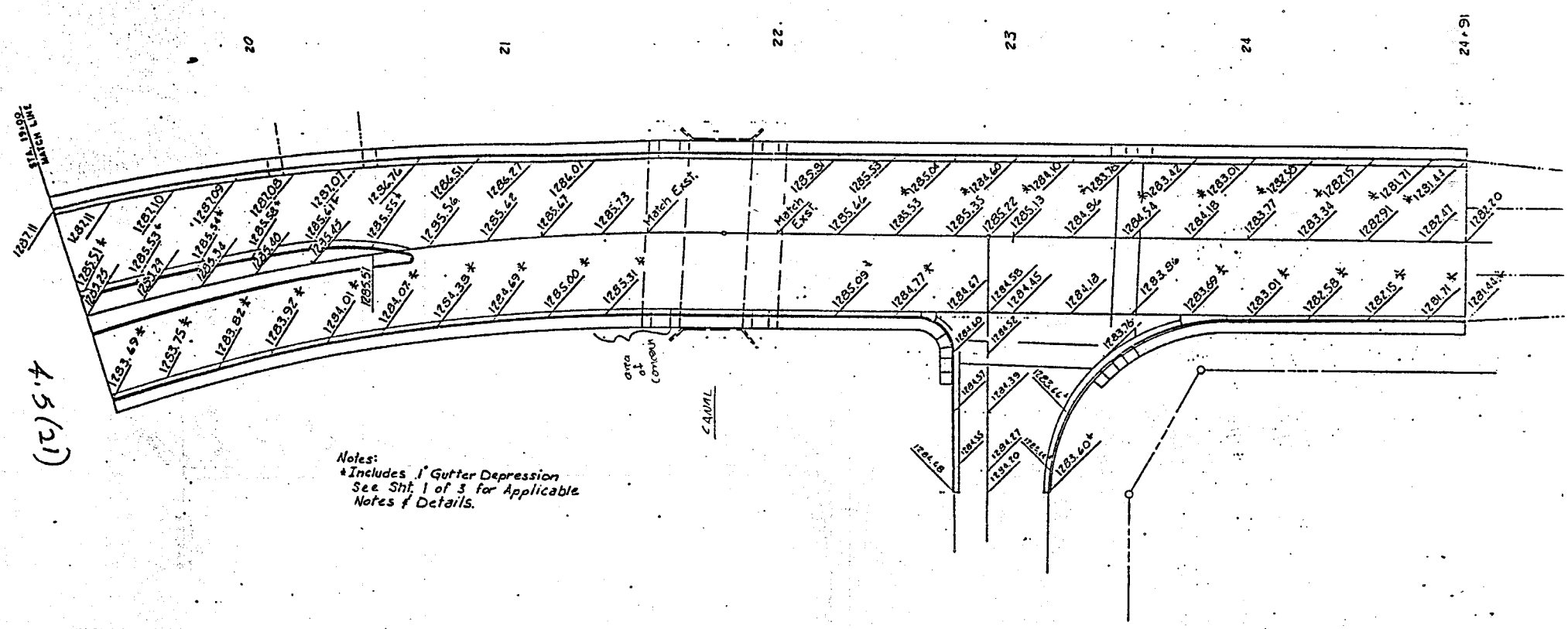
STA. 703+59.5


IPERSTITION FREEWAY
L VISTA DR.- HIGLEY RD.
ARICOPA COUNTY
Channel Sta. 698+40 to Sta. 700+36
New 29"+45"+196'-0" H.E.-R.G.R.C.P.
Chan. Sta. 700+05 to 705+73.39
2454 S.Y. Conc. Channel Lining
See Detail "R"
Channel Sta. 706+03.39 to Sta. 707+52.03
New 2-8'+4'+146'-0" C.B.C.
Std. CB-2
Channel Sta. 703+60
365' Lt. Med ℄
30' Channel Transition
Channel ℄ P.I. 706+76.39 Bk. = EQUA.
Channel ℄ P.I. 706+79.03 Ahd.
360' Lt. Med. ℄ Sta. 706+79.03
STORM DRAINAGE SYSTEM
Exist. R/W
N. 89°49'51" E.
Channel Constr. ℄
Chan. Sta. 690+00 to 698+71
2681 S.Y. Conc. Channel Lining
See Detail "R"
Channel Sta. 705+73.39
360' Lt. Med ℄
24" R.G.R.C.P. w/Headwall
707±85' C.O. #23
Chan. Sta. 707+82 to 720+00
1252 S.Y. Conc. Channel Lining
See Detail "R"
N. 89°44'11" E.
24" R.G.R.C.P. w/Headwall
316±25' C.O. #23
Sta. 704+64.6 to Sta. 704+99
New Weir & Channel Block
See Structure Sheets
EASTERN CANAL
GREENFIELD ROAD
SECTION LINE
C.O. #17
Note: See Greenfield Rd. T.I. Storm Drain Details for Greenfield Rd. & T.I. Drainage.
¼ Cor. Fnd. Mari. Co. B.C. in Mon. & P.I. Def. 0°05'40" Lt.
Med. ℄ P.I. 706+71.67 Bk. = Med. ℄ P.I. 706+71.55 Ahd. EQUA.
℄ Exist. R/W
2' Channel Bottom
Transition
2' Channel Bottom
12' Channel Bottom
Weir Outlet to Ret. Basin
30' Transition
30' Transition
Chan. Sta. 698+71
Top Lining N. Edge
Elev. 1280.90
Chan. Sta. 698+54.5
Top Lining S. Edge
Elev. 1277.09
Chan. Sta. 700+05
Top Lining N. & S. Edges
Elev. 1282.35
Chan. Sta. 705+73.39
Top Lining N. & S. Edges
Elev. 1284.94
Chan. Sta. 707+82.03
Top Lining N. & S. Edge
Elev. 1285.65
S=0.00439'/ft. Profile Grade North Edge Lining
Level
S=0.00517'/ft.
S=0.00525'/ft.
S=0.00425'/ft.
1284.03
H.G.L.
S=0.005'/ft.
Channel Profile Grade
Chan. Sta. 716+00
Top Lining S. Edge
Elev. 1285.65
1277.50
S=0.00397'/ft. Profile Grade North Edge Lining
S=0.00422'/ft. Profile Grade South Edge Lining
H.G.L.
S=0.00425'/ft.
1273.48
1273.55
1268.98
29"+45"+196'-0" Equiv. R.G.R.C.P.
1274.11
2-8'+4'+146' C.B.C.
1276.92
1271.92
Chan. P.I. 701+00
Elev. 1272.50
1290
1285
1280
1291.00
1282.71
1283.93

4.5(20)

SUPERSTITION FREEWAY
VAL VISTA DR.- HIGLEY RD.
MARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO	SHEET NO	TOTAL SHEETS	AS BUILT
9	ARIZ	F-023-1-510	20		

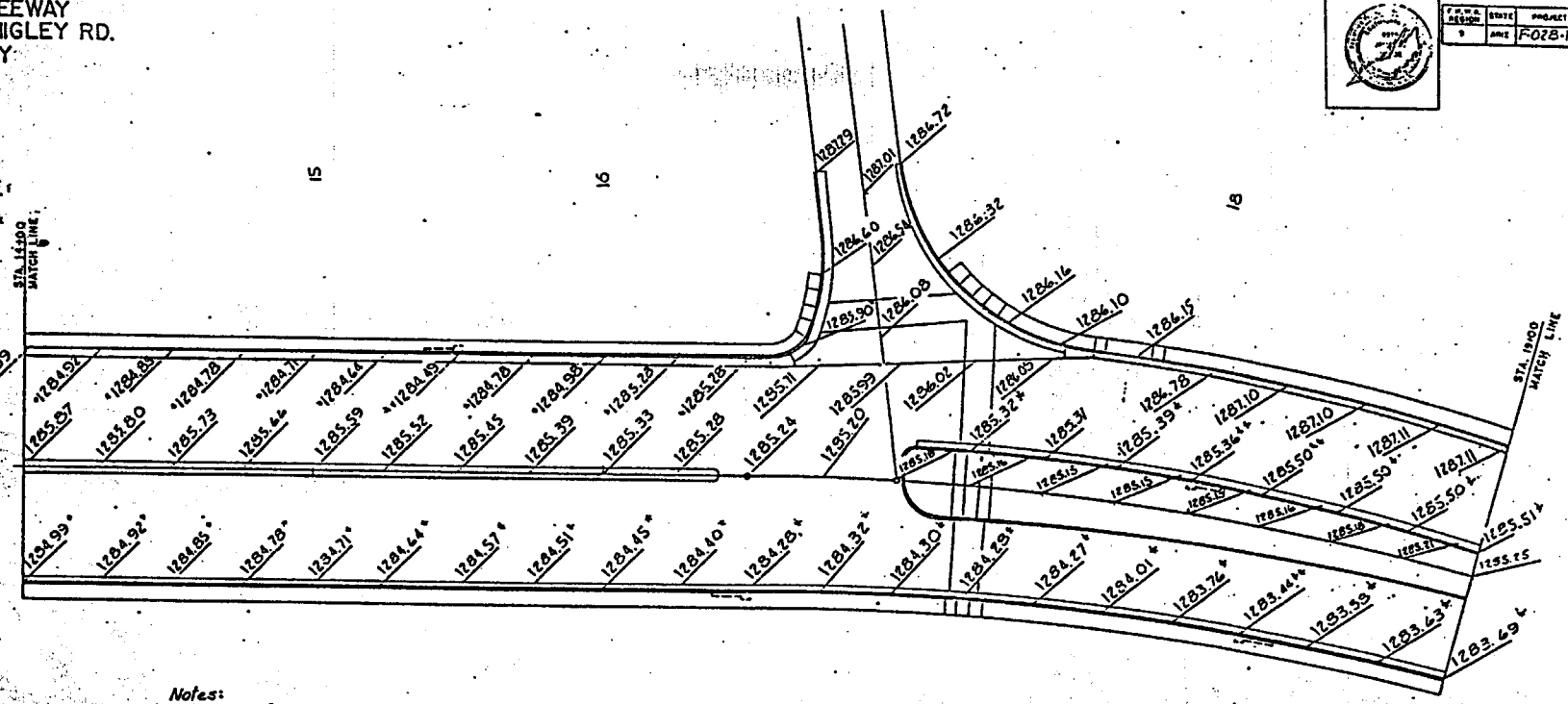


4.5(2)

GREENFIELD RD. T.I.
STAKING DIAGRAM

UPERSTITION FREEWAY
AL VISTA DR.- HIGLEY RD.
IARICOPA COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	F028-1-510	55	22	5-23-78



Notes:
*Includes 1' Gutter Depression
**Includes 2' Gutter Depression
See Sht. 1 of 3 for Applicable Notes & Details.

4.5(2)

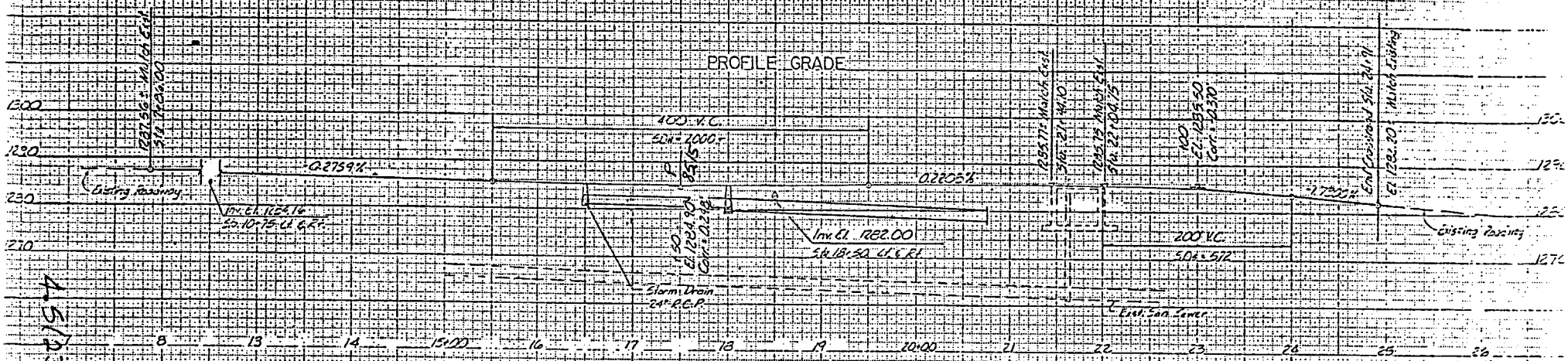
GREENFIELD RD. T.I.
STAKING DIAGRAM

SUPERSTITION FREEWAY
VAL VISTA DR. – HIGLEY RD.
MARICOPA COUNTY

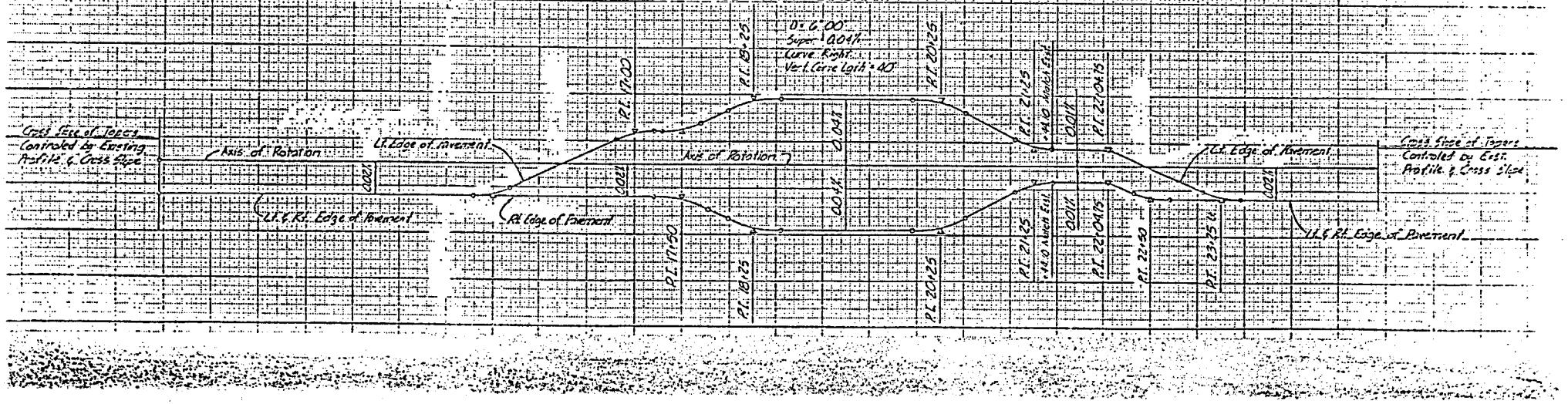
FHWA REGION	STATE	PROJECT NO	SHEET NO. TOTAL SHEETS	AS BUILT
9	ARIZ	IEP-022-1-501 (57)		

GREENFIELD ROAD

PROFILE GRADE



SUPERELEVATION DIAGRAM



4 of 13

VAL VISTA DR. - HIGLEY RD.
MARICOPA COUNTY

NOTE: For All underground Utilities and Storm Drain Facilities, see Greenfield Road T.I. Storm Drain Details and Utilities Sheet

STA. 15+00

MATCH LINE

4.5 (24)

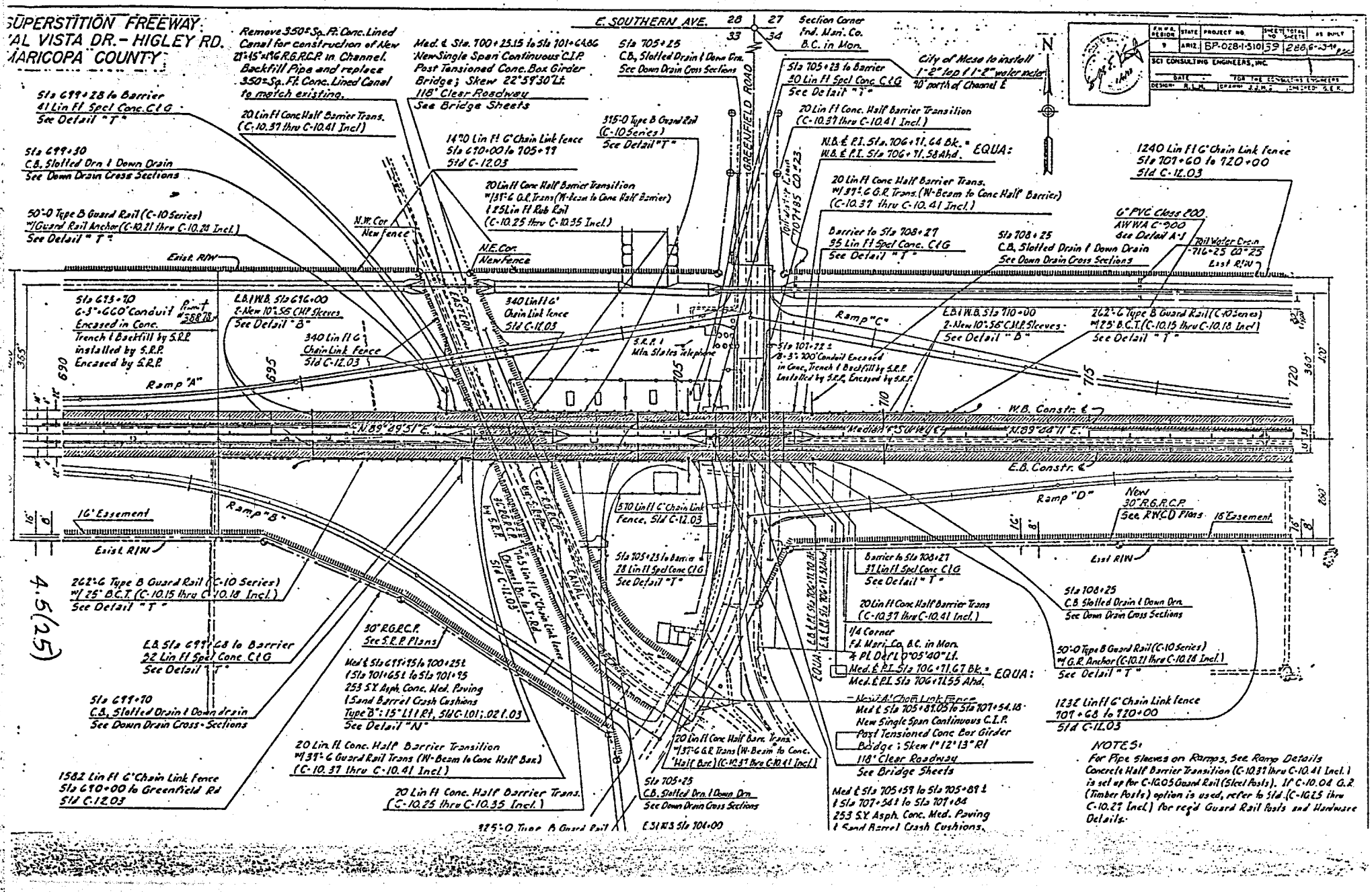
GREENFIELD RD. CONSTRUCTION

BP-028-1-51C

SUPERSTITION FREEWAY
VAL VISTA DR. - HIGLEY RD.
MARICOPA COUNTY

FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BP-028-1-510	59	288	6-30-70

SCI CONSULTING ENGINEERS, INC.
DATE — FOR THE CONSULTING ENGINEERS
DESIGN: R.L.M. DRAWN: J.J.M.J. CHECKED: G.E.R.



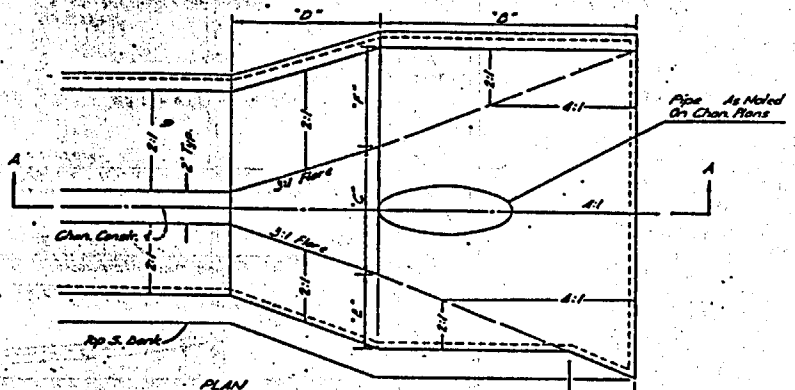
4.5(25)

PERSTITION FREEWAY
L VISTA DR.- HIGLEY RD.
RICOPA COUNTY

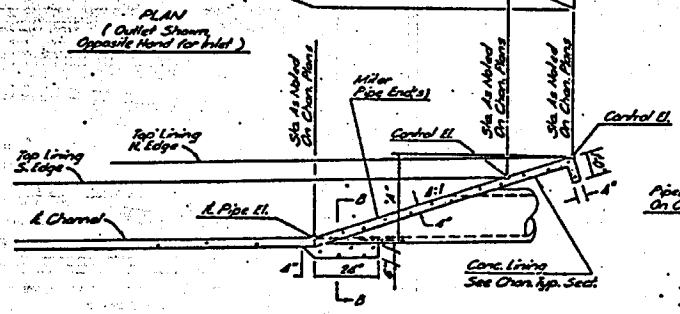
F.H.W.A. REGION	STATE	PROJECT NO.	SHEETS TOTAL	SHEETS	AS BUILT
9	ARIZ.	BP-028-1-510	26	28	8-23-70

SCI CONSULTING ENGINEERS, INC.

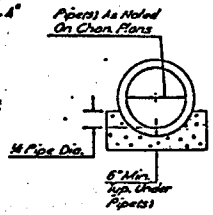
DESIGN R.L.H. DRAWN J.J.H.S. CHECKED G.E.K.



PLAN
(Outlet Shown Opposite Hand for Inlet)



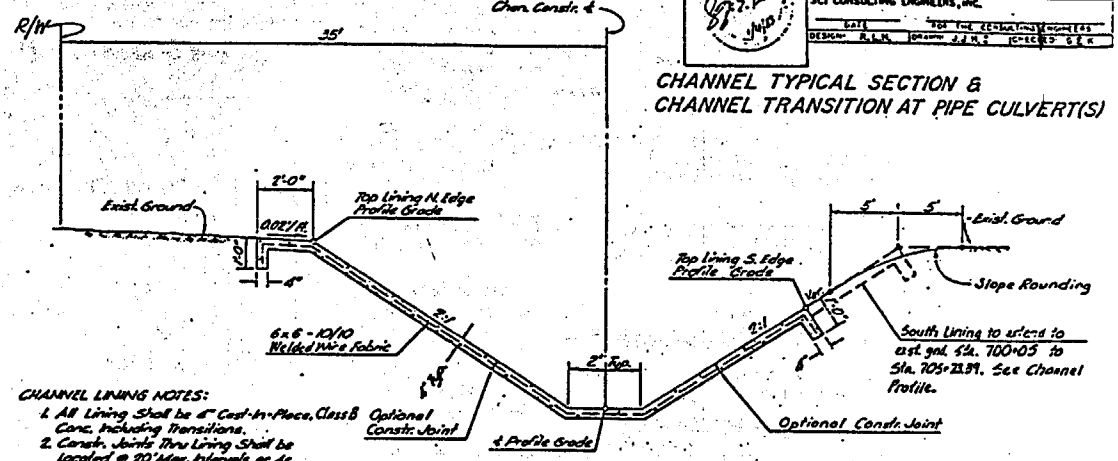
SEC. A-A



SEC. B-B

CHANNEL TRANSITION DIMENSION SCHEDULE		A	B	C	D	E	F
39TH STREET 36" R.C.R.C.P.	Inlet	5.44'	21.9'	5.0'	4.5'	6.86'	11.16'
	Outlet	5.67'	22.1'	5.0'	4.5'	6.56'	10.78'
EASTERN CANAL 27" x 49" R.C.R.C.P. Arch	Inlet	7.97'	31.0'	5.0'	4.5'	16.20	16.20'
	Outlet	7.35'	31.0'	5.0'	4.5'	6.96'	14.46'
	Inlet						
	Outlet						
	Inlet						
	Outlet						

DETAIL OF CHANNEL TRANSITION AT PIPE CULV(S)



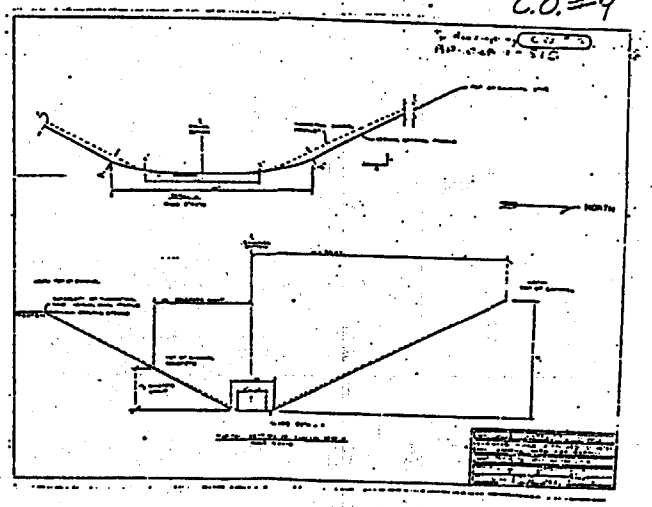
CHANNEL TYPICAL SECTION &
CHANNEL TRANSITION AT PIPE CULVERT(S)

CHANNEL LINING NOTES:

1. All Lining Shall be 4" Cast-In-Place, Class B Conc. Including Transitions.
2. Constr. Joints Thru Lining Shall be Located @ 20' Max. Intervals or As Directed by the Engineer.

CHANNEL TYPICAL SECTION

C.O. #9



4.5(26)

File Copy

A-N WEST INC.
Consulting Engineers

May 15, 1997

Mr. Rajh Shah
Flood Control District
of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009

Re: FCD No. 96-10
Eastern Canal FIS
A-N West No. 7158-04

Dear Mr. Shah:

We herewith transmit the following preliminary data for your review and comment;

1) One set of bluelines of preliminary plan view of Eastern Canal (6 sheets).
2) Table 4 Preliminary Summary WSEL Comparison and updated approximate Zone A Floodplain elevations and widths.

The updated approximate Zone A Floodplain delination was determined by the method discussed in the May 9, 1997 meeting between FCD, City of Mesa and A-N West. Pursuant to City of Mesa's request, an updated approximate Zone A was determined from the low top of the high canal bank within 200 feet± upstream or downstream of the cross sections. The exhibits show the updated Zone A. Low top of canal banks were determined by comparing each adjacent upstream and downstream cross section canal bank elevations to the specific cross section and selecting the low top of the high canal bank accordingly. The resulting updated Zone A is based on the current topography data.

Table 4 summarizes the preliminary HEC-2 model results previously submitted in our May 1, 1997 letter report, with the addition of columns 9 and 10. Columns 9 and 10 provide elevation and floodplain width data utilized to show updated approximate Zone A on exhibits. In addition, the asterick (*) upslope canal bank aerial topography elevations were replaced with field surveyed data where the surveyed elevation was higher than the aerial topography elevation.

We are forwarding a copy of this data to the City of Mesa.

We propose to continue preparing the plan views showing Profiles 1 and 2, approximate Zone A and updated approximate Zone A (based on low top of high canal bank) with FCDMC format for submittal to FEMA. A technical data notebook in FCD format is also being prepared.

Should you have any questions, please call.

Sincerely,

A-N West, Inc.

Greg Schuelke

Greg Schuelke, P.E., R.L.S.
Vice President
Project Manager

GS/dh

cc: Peter Knudson, City of Mesa

4.5(27)

7600 North 15th Street, Suite 200 • Phoenix, Arizona 85020-4331 • Fax (602) 943-1989 • (602) 861-2200

Table 4 Eastern Canal FIS HEC-2 Profile Run Output Summary and Updated Approximate Zone A

HEC-1 Q 100 cfs	Sec. No.	Estimated Capacity cfs Profile 1	Estimated Capacity cfs Profile 2	WSEL Profile 1	WSEL Profile 2	Upslope Top of Bank	Downslope Top of Bank	Low Top of High Canal Bank Elev.	Floodplain Width From Hydraulic Baseline (ft)	Remarks
	16.422	190	215	79.84	79.94	83.1	82	83.1	990	
	16.458			79.97	80.07	84.1	82.6	83.6	1000	Baseline Road Culvert Q 200 WSE 82.2
897	16.493			81.71	82.41	*83.7		83.6	925	Baseline Road Culvert, Low Top of Road 83.6
	16.549			81.9	82.41	81.9	82.4	82.4	620	
	16.606			81.98	82.44	82.3	82.8	82.3	482	
	16.662			82.48	82.63	82.9	82.3	82.8	618	
	16.723	60	75	82.6	82.73	82.8	82.5	82.6	440	
869	16.772			82.67	82.8	82.6	82.6	82.6	413	
	16.852			82.69	82.82	*83	82.4	82.6	432	
	16.921			82.68	82.81	85.1	84.1	83	427	Greenfield Road Culvert, Low Top of Road = 85.0
	16.939			83.35	83.86	85.1	84.1			Greenfield Road Culvert
	17.014			83.35	83.86	83.4	83	83.4	414	U.S. 60 Culvert
	17.16	45	50	84.26	84.98	84.7	83.3	83.4	555	U.S. 60 Culvert
1206	17.183			84.26	84.98	84.7	82.9	84.3	692	Holmes Park Detention Basin
	17.256			84.26	84.98	84.3	83	84.3	731	Holmes Park Detention Basin
1081	17.277			84.26	84.98	84.8	83	84.3	347	
	17.325			84.27	84.98	84.4	83	84.2	268	
	17.435			84.28	84.99	84.2	83.4	84.2	305	
	17.485			84.28	84.99	*84.7	83.5	84.2	336	
	17.57	32	190	84.29	85	*86.1	84.7	84.7	307	Southern Avenue Culvert, Low Top of Road = 85.5
	17.608			85.58	85.89	87	86.6	86.1	625	Southern Avenue Culvert
1097	17.683			85.58	85.9	87	86.2	87	848	
	17.78			85.58	85.91	87	86.8	87	727	
	17.834			85.58	85.92	87	86.1	87	703	
1108	17.872			85.58	85.94	87	86.3	87	795	
	17.934			85.58	85.95	87	87.1	87	742	
	17.984			85.58	85.97	87	87.1	86.7	639	
	18.035			85.58	86	85.8	86.7	86.7	660	
	18.074			85.59	86.04	85.6	86.9	86.7	211	Greenfield Park Detention Basin
	18.101	162	170	85.59	86.09	86.4	87.1	86.9	763	Greenfield Park Detention Basin
1487	18.15			85.59	86.09	*87.3	87	87.1	855	
	18.197			85.59	86.09	*87.5	86.9	87.3	830	
	18.225			85.59	86.09	*87.3	87	87.3	670	
	18.253			85.59	86.09	*87.3	86.9	87.2	617	
	18.291			85.93	86.36	*87.2	87.1	87.2	600	
1342	18.337			85.94	86.37	*87.4	86.9	87.2	593	
	18.384			85.95	86.38	*87.3	86.8	87.3	785	

* East Canal bank elevation based on higher field surveyed value

4.5(28)

Table 4 Eastern Canal FIS HEC-2 Profile Run Output Summary and Updated Approximate Zone A

	18.428			85.95	86.38	*87.3	86.7	87.3	589	
1326	18.487			85.96	86.38	*87.6	86.7	87.3	243	Broadway Road Culvert, Low Top of Road = 88.0
	18.574					86.9	87.3	87.3	362	
	18.625					87.3	87.4	87.3	430	
1293	18.721			86.97	87.5	*87.6	87.3	87.4	627	Broadway Road Culvert, Low Top of Road = 88.0
	18.766	23	23	86.98	87.5	*87.6	87.1	87.6	583	
	18.821			86.98	87.5	*87.8	87.3	87.6	585	
	18.861			86.98	87.5	*87.7	87.3	87.7	468	
	18.908			86.98	87.5	*88.1	87.4	87.7	483	
1032	18.965			86.98	87.5	88.2	87.5	88.1	468	
	18.999			87.5	87.5	*88.2	87.8	88.2	544	
	19.044			86.98	87.5	88.2	88.1	88	445	
	19.088			86.98	87.5	87.9	88	88	542	
	19.151			86.98	87.5	88	87.9	88	570	
1004	19.186			86.98	87.5	88.2	87.9	88	411	Main Street Culvert, Low Top of Road = 90.0
	19.262			87.98	88.5	*88.7	88.5	88.2	681	Main Street Culvert, Low Top of Road = 90.0
	19.294	260	430	87.98	88.49	88.7	88.5	88.7	629	
	19.339			88.04	88.58	88.7	88.6	88.7	730	
	19.381			88.08	88.63	88.6	89	88.7	832	
	19.43			88.14	88.72	88.8	88.8	88.8	483	
726	19.473			88.21	88.8	89.5	89.1	88.8	600	
	19.502			88.29	88.29			88.9	785	Val Vista Road, Low Top of Road = 87.3
	19.623			88.42	88.93	88.7	89.3	88.9	715	
	19.67			88.45	88.97	88.5	88.9	88.9	438	
	19.716			88.48	88.99	88.5	88.9	88.8	190	
	19.764			88.7	89.19	88.7	88.8	88.8	675	
767	19.808	1	1	88.85	89.29	*89.6		88.8	386	University Drive
	19.83			88.85	89.29	*89.6	89.1	88.8	235	Low Top of Road 88.7
	19.871			88.85	89.29	88.5	88.8	88.5	223	
	19.924			88.85	89.29	88.5	88.4	88.5	53	
	19.971			88.85	89.29	*88.8	88.7	88.5	485	
	20.015			88.85	89.29	*88.7	88.6	88.7	617	Overtops Bank
	20.051			88.85	89.29	88.2	88.9	88.7	520	Overtops Bank
	20.082			88.85	89.29	88.7	89.1	88.9	440	
	20.139			88.85	89.29	88.7	89.2	89.1	490	
	20.179			88.85	89.29	89.2	89.4	89.2	642	
781	20.244			88.85	89.29	89.4	90.3	89.4	450	Ridge
	20.289			88.85	89.29	89.3	89.8	89.8	607	
	20.324			88.85	89.29	89.1	90	89.9	633	
	20.379			88.85	89.29			89.8	618	Adobe Street, Low Top of Road = 88.2
	20.393	35	85	88.85	89.29	89.26	90.5	90	405	

* East Canal bank elevation based on higher field surveyed value

4.5(29)

Table 4 Eastern Canal FIS HEC-2 Profile Run Output Summary and Updated Approximate Zone A

	20.432			88.85	89.29	89.2	90.5	90.5	612	
	20.465			88.85	89.29	89	90.7	90.5	530	
	20.515			89	89.43	89.3	90.7	90.7	295	
	20.559			89.06	89.53	89.2	90.7	90.7	503	
692	20.608			89.12	89.59	89.4	90.8	90.7	433	
	20.651			89.17	89.65	89.2	90.8	90.8	432	
	20.676			89.22	89.71	89.5	90.8	90.6	415	
	20.727			89.26	89.76	89.6	90.6	90.6	486	
	20.768			89.27	89.78	89.3	91	90.4	405	
703	20.815			89.29	89.8	89.3	90.4	90.4	431	
	20.87			89.31	89.84	89.4	90.4	90.3	535	
	20.912			89.45	89.97	89.7	90.3	90.3	435	
	20.963	130	330	90.93	91.13	*92.7		90.3		Brown Road, Low Top of Road = 90.5
	20.974			91.08	91.33			90.3	539	
	21.02			91.08	91.34	91.3	91.5	90.5	537	
	21.088			91.08	91.34	*91.6	91.1	91.4	632	
	21.137			91.08	91.34	91.4	91.1	91.4	467	
	21.196			91.09	91.38	91.4	91.2	91.4	356	
	21.256			91.14	91.53	91.8	91.3	91.4	387	
637	21.315			91.23	91.74	91.3	91.7	91.7	605	
	21.375			91.29	91.8	91.3	91.7	91.6	526	
	21.432			91.3	91.81	91.5	91.6	91.6	478	
	21.463			91.31	91.82	91.8	92.8	91.5	504	
	21.492	1	1	91.34	91.87	90.6	91.5	91.5	532	Indsay Road, Low Top of Road = 91.2 (Overtops Bank
	21.603			91.35	91.87	90.6	91.5	91.5	439	
216	21.665			91.35	91.87	91	92.3	91.5	405	
	21.716			91.35	91.87	91.3	92.3	91.7	345	
	21.774			91.35	91.87	91.3	91.7	91.7	348	
	21.819			91.35	91.87	91.5	91.8	91.5	415	
	21.859			91.35	91.87	91.5	91.5	91.2	407	
	21.914			91.35	91.87	91.2	91.1	91.2	80	
218	21.963			91.35	91.87	91.1	91.4	91.2	483	
	22.014			91.35	91.87	91.9	92	91.4	335	
	22.063			91.35	91.87	91.6	91.8	91.8	378	
	22.112			91.35	91.87	92	92	91.8	335	
240	22.208	100	275	92.92	93.08			94.2	795	McKellips Road, Low Top of Road = 92.8
	22.236			93.03	93.26	94.2	94.1	94.2	646	
	22.283			93.66	93.88	94.6	95.3	94.2	670	
	22.304			93.94	94.33	94.3	95.2	94.6	822	Ridge
	22.35			93.98	94.43	94.2	94.6	94.6	670	
	22.401			93.99	94.46	94.2	94.6	94.6	650	

* East Canal bank elevation based on higher field surveyed value

4.5/30

Table 4 Eastern Canal FIS HEC-2 Profile Run Output Summary and Updated Approximate Zone A

	22.444			94	94.49	94	95.3	94.6	502
333	22.488			94.01	94.52	94	95.2	95.2	860
	22.541	215	305	94.02	94.53	94.7	95.3	95.2	820
	22.571			94.02	94.53	94.7	95.2	95.2	995
	22.609			94.02	94.53	94.2	95.2	94.8	782
	22.636			94.01	94.53	94.2	94.8	94.6	773
	22.695			94.1	94.6	*94.7	94.5	94.6	771
	22.744			94.12	94.63	94.2	94.6	94.6	686
273	22.798			94.15	94.65	94.5	94.8	94.6	820
	22.849			94.18	94.68	94.8	94.6	94.8	852
	22.932			94.24	94.71	94.5	94.8	94.8	788
	22.976			94.24	94.71	94.5	95.8	94.8	565

* East Canal bank elevation based on higher field surveyed value

4.5 (31)

THIS RUN EXECUTED 02JUN97 08:31:52

T.D. N. 4.7
Preliminary HEC-2 Model
Input/output Results

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************
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T1      EASTERN CANAL FIS    FCDMC NO. 96-10                    FILE:EASTCAN3.DAT
T2      PROFILE 1 -DISCHARGE AT BREAKOVER OF UPSLOPE BANK. A-N WEST,INC. PHX.AZ.
T3      EASTERN CANAL-PROF. 1                                   DATE:4/28/97

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2                         0.0006                                1280

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43        1        2       26       39       21       22       27       28
    53       54       68        0       38       13       14       15       55       26
    56       63        1       51        4       42       57        0       38       39
    33        3       10       11       12        5        7        8       16       17
    18

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

   -10      -10

QT      2      190      215
NC   0.03     0.03     .040      0.3      0.5
ET             7.1      7.1      7.1      7.1                9009.83   10019.65
        CROSS-SECTIONS ARE CODED FROM LEFT TO RIGHT LOOKING DOWNSTREAM WITH
        STATION 10000 AT HYDRAULIC BASELINE.
        CROSS-SECTION I.D. NOS. ARE IN RIVER MILES INCREASING UPSTREAM ALONG
        THE EASTERN CANAL FROM THE INTERSECTION WITH THE GILA RIVER FLOODPLAIN
        AT A LOCATION 3800 FT. SOUTH OF THE HUNT HIGHWAY.
        STARTING WATER SURFACE ELEVATION WAS BASED ON SLOPE AREA METHOD.
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        THE EFFECTIVE AREA ENCROACHMENT OPTION (ET RECORD) WAS USED TO BLOCK
        OUT FLOW WITHIN AND TO THE  RIGHT OF CANAL.
        TOP OF E. CANAL BANK=1283.1 AND W. BANK=1282.0.
X1   16.422       70   9998.76  10019.65        0        0        0
GR   1283.1  9009.83   1283.11   9024.24  1283.00  9060.10  1282.82  9104.33  1282.79  9110.36
GR   1282.9  9160.82   1282.87   9162.25  1282.64  9210.94  1282.51  9251.87  1282.46  9261.20
GR   1282.2  9297.41   1282.13   9311.50  1282.04  9342.96  1282.01  9361.77  1281.88  9388.47
GR   1281.8  9412.00   1281.72   9434.03  1281.52  9463.66  1281.50  9464.15  1282.05  9470.91
GR   1282.2  9473.09   1281.31   9475.77  1281.14  9476.38  1281.65  9478.26  1281.85  9478.89
GR   1281.8  9479.39   1281.48   9481.91  1281.31  9514.35  1281.07  9526.83  1281.07  9548.48
GR   1281.4  9620.90   1281.46   9621.88  1280.95  9709.39  1280.96  9713.44  1281.11  9726.83
GR   1281.6  9761.97   1281.22   9777.91  1280.22  9814.16  1280.31  9843.70  1280.38  9864.43
GR   1279.7  9893.28   1279.49   9903.04  1279.52  9905.96  1279.27  9917.74  1279.15  9931.17
GR   1278.4  9964.27   1278.08   9978.14  1277.87  9992.73  1278.13  9993.77  1278.55  9996.15
GR   1278.7  9996.92   1279.20   9998.76  1278.58 10000.00  1277.86 10001.44  1277.57 10010.19
GR   1278.4 10011.20   1280.09  10013.89  1283.15 10019.65  1283.10 10025.18  1283.04 10035.03
GR   1282.4 10036.84   1279.71  10043.90  1279.45 10060.57  1279.21 10076.37  1281.79 10082.38
GR   1282.0 10082.79   1282.07  10083.12  1281.96 10093.09  1281.94 10094.72  1281.88 10094.95

ET              7.1       7.1       7.1       7.1            9010.87 10041.35
        DOWNSTREAM SIDE OF BASELINE ROAD.
        TWO EXIST. 48 INCH RCP'S X 130 FT. LONG W/ HEADWALLS MODELLED AT
        THIS LOCATION BY SPECIAL CULVERT ROUTINE WITH ROAD PROFILE
        MODELED BY BT RECORD.
        NOTE THAT UPSTREAM TOP OF CANAL BANKS ARE LOWER THAN THE LOW EL. IN
        BASELINE RD.
        LOW ELEV. IN ROAD PROFILE IS 1283.6 TO EAST OF CANAL AND EL.1284.1 AT
        CANAL.
X1   16.458       83  10009.96  10034.76      205      190      190
X3      10
GR   1283.4  9010.87   1283.28   9031.85  1283.22  9060.84  1283.07  9081.69  1283.05  9110.84
GR   1283.0  9131.58   1282.89   9160.85  1282.73  9181.46  1282.51  9210.84  1282.46  9231.34
GR   1282.4  9260.85   1282.21   9290.51  1282.15  9310.84  1282.17  9316.28  1282.22  9347.77
GR   1282.2  9360.84   1282.15   9379.01  1281.91  9408.75  1281.64  9417.90  1281.64  9421.68
GR   1281.9  9423.65   1282.17   9425.48  1282.84  9429.68  1282.35  9431.11  1281.29  9434.46
GR   1282.2  9436.24   1282.68   9437.62  1282.67  9441.66  1282.68  9442.02  1282.68  9443.51
GR   1282.6  9460.84   1282.02   9480.69  1281.67  9510.84  1281.65  9520.39  1281.54  9530.57
GR   1281.3  9560.84   1281.24   9591.29  1281.26  9597.68  1281.28  9610.85  1281.23  9622.92
GR   1281.3  9655.84   1281.23   9660.84  1281.28  9666.74  1281.23  9680.18  1281.17  9741.67
GR   1281.2  9754.35   1281.41   9760.84  1281.16  9775.03  1281.20  9806.55  1281.19  9810.93
GR   1281.0  9822.62   1280.35   9853.46  1280.31  9860.55  1280.33  9865.16  1280.47  9877.27
GR   1281.1  9898.19   1280.72   9905.15  1280.23  9915.23  1279.57  9923.27  1279.43  9934.22
GR   1279.9  9955.16   1279.93   9966.05  1278.86 10000.00  1278.81 10001.74  1278.76 10003.47
GR   1278.8 10004.02   1279.41  10008.92  1279.57 10009.96  1278.59 10012.20   1275.6 10015.72
GR   1275.6 10019.70    1275.6  10025.45  1281.21 10031.15  1283.87 10034.76  1284.11 10041.35
GR   1283.7 10048.63   1280.60  10056.80  1279.97 10058.26  1279.78 10065.31  1279.23 10088.94
GR   1282.0 10095.28   1282.64  10096.50  1282.59 10099.34

NH      4      .059   9505.77      .035 10006.02      .04 10035.59      .025 10089.58
ET              7.1       7.1       7.1       7.1            9018.47 10035.59
SC  2.012       .5       3.0         0         4         0       130       1.1    1276.0    1275.6
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(2)

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        UPSTREAM EDGE OF BASELINE ROAD.
        TOP OF E. CANAL BANK=1282.3 AND W. BANK=1283.6.
X1   16.493       78  10006.02  10035.59       180       300       190
X2                           2    1280.0    1283.6
X3       10
BT      -14  9043.06    1286.8            9122.38   1286.38            9189.24   1285.92
BT           9285.27   1285.66            9387.53    1285.1            9534.96   1284.51
BT           9601.08    1284.4            9664.41   1283.90            9717.39   1283.68
BT           9800.44   1283.56            9814.01    1283.6            9934.45   1283.76
BT          10000.00   1283.98           10029.63   1284.06
GR   1284.0  9018.47   1283.71  9064.39   1283.44   9087.93   1283.12  9119.20   1283.13  9125.75
GR   1283.1  9140.31   1283.12  9163.57   1283.13   9174.04   1283.01  9201.64   1282.89  9228.86
GR   1282.8  9262.10   1282.66  9283.70   1282.42   9314.81   1282.22  9338.52   1282.15  9352.63
GR   1282.1  9383.98   1282.13  9390.45   1282.12   9393.36   1282.11  9401.04   1282.08  9448.19
GR   1282.0  9466.06   1281.69  9503.02   1281.69   9503.87   1281.69  9505.77   1281.79  9557.85
GR   1281.8  9600.43   1281.72  9612.67   1281.68   9627.62   1281.62  9655.12   1281.51  9667.51
GR   1281.3  9692.94   1281.31  9722.34   1281.45   9729.78   1281.52  9774.40   1281.34  9775.99
GR   1280.7  9776.86   1280.14  9779.06   1279.76   9780.15   1280.03  9781.32   1281.72  9785.92
GR   1280.2  9793.05   1280.06  9793.86   1280.23   9808.61   1280.41  9832.00   1280.27  9871.28
GR   1280.2  9882.00   1280.22  9886.83   1280.14   9899.56   1279.94  9941.67   1280.06  9967.26
GR   1280.1  9970.16   1280.06  9970.77   1280.61   9976.02   1281.08  9980.08   1281.10  9980.63
GR   1281.8  9987.82   1282.00  9995.49   1282.11  10000.00   1282.21 10004.22   1282.28 10006.02
GR   1282.2 10006.69    1276.0 10010.43    1276.0  10018.94   1277.77 10021.05   1279.56 10023.60
GR   1283.5 10034.34   1283.60 10035.59   1283.60  10036.81   1283.58 10038.51   1283.19 10053.19
GR   1282.9 10055.64   1282.86 10057.25   1282.93  10060.38   1281.87 10061.82   1283.00 10073.78
GR   1283.3 10083.43   1283.41 10088.18   1283.43  10089.58

NC    .059      .025      .04
ET               7.1       7.1       7.1       7.1            9008.86 10046.42
        TOP OF E. CANAL BANK=1281.9 AND W. BANK=1282.4.
X1   16.549       91  10000.00  10030.70       290       290       290
GR   1284.0  9008.86   1283.85  9043.52   1283.77   9053.69   1283.55  9098.35   1283.36  9134.92
GR   1283.3  9153.18   1283.25  9160.11   1283.18   9175.51   1283.01  9197.93   1282.95  9208.01
GR   1282.7  9235.74   1282.56  9262.85   1282.48   9297.34   1282.52  9317.66   1282.47  9334.31
GR   1282.4  9372.50   1282.36  9386.99   1282.14   9419.20   1282.09  9424.81   1282.06  9427.33
GR   1281.9  9462.62   1281.80  9482.16   1281.81   9533.71   1281.81  9536.99   1281.81  9541.00
GR   1281.8  9576.05   1281.70  9591.83   1282.17   9611.24   1282.78  9638.47   1282.09  9642.04
GR   1281.9  9643.60   1281.89  9643.84   1281.92   9645.39   1281.95  9646.66   1282.62  9648.59
GR   1283.2  9649.67   1282.32  9652.35   1280.61   9658.75   1281.11  9667.07   1281.33  9687.86
GR   1281.2  9701.47   1281.37  9717.38   1281.55   9747.35   1281.13  9756.32   1280.86  9781.04
GR   1280.8  9784.65   1280.86  9786.47   1280.77   9788.55   1280.72  9791.23   1280.68  9793.05
GR   1280.7  9793.76   1280.79  9794.25   1280.86   9794.68   1280.96  9794.93   1281.12  9795.46
GR   1281.6  9797.96   1281.35  9818.50   1281.32   9821.78   1280.63  9837.74   1280.54  9839.49
GR   1280.5  9840.32   1280.45  9841.09   1280.39   9841.95   1280.79  9854.83   1280.37  9880.54
GR   1280.1  9906.51   1280.17  9916.36   1280.15   9920.80   1280.07  9929.38   1279.39  9969.30
GR   1280.0  9970.29   1280.66  9978.12   1280.44   9981.42   1280.43  9985.52   1280.73  9987.29
GR   1280.7  9994.63   1280.72 10000.00   1280.71  10000.39   1280.59 10005.43   1280.32 10012.08
GR   1279.2 10020.61   1281.74 10030.70   1281.88  10043.26   1281.90 10046.42   1281.63 10047.34
GR   1280.1 10054.11   1280.04 10076.75   1280.01  10082.69   1280.42 10083.44   1282.43 10087.56
GR   1282.4 10093.06
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ET              7.1       7.1       7.1       7.1              9018.16   10024.00
        TOP OF E. CANAL BANK=1282.3 AND W. BANK=1282.8.
X1   16.606       86  10007.16  10024.00       300       300       300
GR   1284.2  9018.16   1284.16   9041.80   1284.32   9073.03   1284.20   9084.83   1284.13   9111.13
GR   1283.9  9160.46   1283.70   9182.66   1283.58   9198.26   1283.83   9237.49   1283.36   9273.89
GR   1283.1  9292.32   1283.21   9341.02   1283.20   9347.17   1283.21   9349.50   1283.17   9354.68
GR   1282.7  9401.98   1283.05   9440.65   1283.06   9456.83   1283.05   9464.85   1283.04   9472.09
GR   1283.0  9479.49   1282.99   9490.41   1283.66   9493.87   1284.36   9497.76   1283.79   9500.48
GR   1282.9  9503.93   1284.05   9508.02   1284.59   9509.84   1282.87   9515.81   1281.98   9518.78
GR   1282.5  9524.15   1282.58   9524.51   1282.64   9525.18   1282.70   9525.72   1282.76   9526.39
GR   1282.8  9527.17   1282.89   9527.65   1282.93   9528.08   1282.98   9528.58   1283.04   9529.19
GR   1283.1  9530.10   1283.16   9530.63   1283.09   9534.56   1282.60   9566.46   1282.52   9598.44
GR   1282.4  9614.20   1282.39   9621.30   1282.51   9640.01   1282.49   9676.14   1282.42   9689.84
GR   1282.2  9720.28   1282.08   9727.64   1282.06   9730.95   1282.11   9739.69   1281.82   9785.80
GR   1281.8  9803.27   1281.88   9840.64   1281.88   9841.09   1281.88   9842.08   1281.55   9895.45
GR   1281.5  9916.71   1281.60   9950.30   1281.57   9955.81   1281.51   9965.91   1281.36   9984.65
GR   1281.3  9992.51   1281.30   9998.18   1281.25  10000.00   1281.20  10001.50   1281.11  10007.16
GR   1279.2 10015.39   1278.97  10016.21   1279.63  10017.70   1282.34  10024.00   1282.05  10039.57
GR   1282.0 10042.78   1281.18  10045.15   1280.82  10046.12   1280.51  10070.46   1280.48  10075.22
GR   1281.3 10076.83   1282.82  10079.77   1282.74  10086.79   1282.67  10092.62   1280.99  10099.18
GR   1280.9 10099.69

NH        4      .030   9598.21      .059   9993.73      .040  10018.37      .025  10092.92
ET              7.1       7.1       7.1       7.1              9159.57   10018.37
        TOP OF E. CANAL BANK=1282.9 AND W. BANK=1282.3.
X1   16.662       93   9993.73  10018.37       295       295       295
GR   1284.2  9159.57   1284.19   9196.71   1284.08   9214.41   1284.08   9234.54   1284.09   9269.22
GR   1284.1  9272.35   1284.05   9279.29   1283.96   9324.06   1283.88   9349.29   1283.85   9356.22
GR   1284.1  9357.34   1285.38   9361.74   1284.84   9363.83   1284.07   9366.85   1285.20   9370.82
GR   1285.5  9372.02   1284.93   9374.24   1282.66   9381.67   1283.54   9396.08   1283.62   9397.18
GR   1283.7  9398.59   1283.82   9400.10   1283.92   9401.65   1283.98   9402.43   1283.88   9406.11
GR   1283.8  9411.14   1283.68   9414.21   1283.62   9416.46   1283.55   9418.94   1283.53   9419.77
GR   1283.5  9420.39   1283.50   9420.97   1283.33   9429.32   1283.32   9429.73   1283.14   9436.16
GR   1282.9  9464.18   1282.70   9488.60   1282.63   9499.25   1282.44   9522.91   1282.34   9543.38
GR   1282.3  9560.13   1282.21   9598.21   1282.08   9644.72   1282.08   9650.10   1282.08   9653.72
GR   1282.0  9689.96   1281.74   9707.88   1281.84   9731.77   1281.91   9777.31   1281.88   9783.97
GR   1281.9  9809.96   1281.67   9852.32   1281.52   9871.40   1281.49   9878.99   1281.50   9893.75
GR   1281.4  9927.16   1281.40   9969.25   1281.39   9978.01   1281.39   9982.06   1281.39   9993.73
GR   1281.3  9998.36   1281.21   9999.45   1281.19  10000.00   1281.16  10000.83   1281.11  10002.15
GR   1280.8 10003.32   1280.15  10005.87   1279.88  10006.90   1279.73  10007.46   1279.62  10007.93
GR   1279.5 10008.29   1279.07  10009.90   1280.17  10012.38   1282.60  10018.37   1282.80  10023.21
GR   1282.8 10026.59   1282.27  10034.01   1280.68  10037.12   1280.33  10037.92   1280.37  10061.73
GR   1280.4 10066.52   1280.81  10067.88   1282.24  10071.53   1282.14  10077.61   1282.06  10083.43
GR   1280.3 10090.55   1280.22  10090.79   1280.16  10091.21   1280.10  10091.45   1280.06  10091.72
GR   1280.0 10092.08   1279.93  10092.49   1279.87  10092.92

QT        2        60        75
NC     .030      .025      .040
ET              7.1       7.1       7.1       7.1              9219.5   10007.88
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        TOP OF E. CANAL BANK=1282.8 AND W. BANK=1282.5.
X1   16.723      94   9948.31  10007.88     300     260     260
GR   1285.1 9219.50  1283.83  9234.50  1284.58 9241.24  1284.67 9241.97  1284.72 9242.53
GR   1284.9 9250.36  1284.84  9255.29  1284.79 9258.94  1284.75 9262.87  1284.72 9265.16
GR   1284.5 9276.19  1284.47  9277.01  1284.45 9277.62  1284.43 9278.09  1284.42 9278.52
GR   1283.9 9355.88  1283.70  9381.11  1283.58 9399.37  1283.50 9414.33  1283.33 9454.20
GR   1282.1 9661.95  1282.06  9665.57  1282.06 9667.85  1282.19 9669.27  1282.35 9670.93
GR   1283.7 9685.12  1283.72  9685.86  1283.86 9687.66  1283.88 9687.91  1284.07 9690.26
GR   1284.1 9690.51  1284.05  9692.59  1284.03 9695.60  1284.02 9697.58  1284.01 9699.04
GR   1283.9 9724.00  1283.90  9725.82  1283.89 9728.19  1283.89 9729.43  1283.88 9730.55
GR   1283.9 9746.61  1283.69  9771.83  1283.67 9783.17  1283.33 9813.07  1283.10 9838.00
GR   1283.3 9889.46  1283.26  9889.83  1283.25 9890.25  1283.24 9890.58  1283.22 9895.23
GR   1283.0 9929.75  1282.91  9939.70  1282.86 9948.31  1282.21 9959.27  1281.84 9965.51
GR   1281.5 9971.92  1281.31  9974.72  1281.34 9976.07  1281.38 9986.46  1281.67 9991.16
GR   1281.7 9992.02  1281.59  9992.50  1281.13 9994.04  1280.94 9994.60  1280.80 9995.07
GR   1280.7 9995.40  1280.53  9996.03  1280.38 9996.58  1280.25 9996.93  1279.14 10000.00
GR   1280.8 10003.86 1282.42  10007.07 1282.80 10007.88 1282.77 10009.19 1282.52 10022.73
GR   1281.1 10025.30 1280.06  10027.54 1279.73 10049.28 1279.67 10056.09 1281.03 10058.60
GR   1282.5 10061.77 1282.29  10071.27 1282.16 10074.56 1281.46 10077.94 1279.16 10087.53
GR   1279.0 10092.08 1278.99  10092.38 1278.81 10094.51 1278.74 10095.78 1278.93 10096.46
GR   1279.0 10096.85 1279.36  10097.55 1279.45 10097.82 1279.85 10099.84

NH      4     .035  9844.44     .030  9967.23     .040 10009.79     .025 10092.98
ET            7.1      7.1       7.1      7.1          9963.80 10009.79
        TOP OF E. CANAL BANK=1282.6 AND W. BANK=1282.6.
X1   16.772      83   9963.80  10009.79     290     260     260
GR   1286.2 9002.55  1286.12  9008.48  1286.08 9011.49  1286.03 9013.82  1286.00 9015.96
GR   1286.0 9017.88  1285.95  9019.60  1285.44 9046.99  1285.33 9083.65  1285.32 9097.89
GR   1285.3 9108.88  1285.14  9133.40  1285.05 9166.22  1285.02 9170.68  1284.66 9209.21
GR   1284.4 9232.04  1284.22  9256.22  1284.13 9277.35  1284.09 9292.38  1283.99 9342.55
GR   1284.0 9349.06  1283.95  9353.70  1283.77 9381.23  1283.55 9415.07  1283.51 9420.76
GR   1283.5 9428.77  1283.39  9476.41  1283.20 9515.07  1283.06 9528.33  1283.00 9537.76
GR   1282.8 9564.19  1282.51  9599.13  1282.50 9600.05  1282.50 9601.35  1282.39 9635.92
GR   1282.3 9660.49  1282.20  9671.78  1282.09 9690.71  1281.96 9723.46  1281.93 9768.62
GR   1281.9 9783.03  1281.77  9812.87  1281.63 9844.44  1281.61 9860.24  1281.63 9886.91
GR   1281.6 9905.85  1281.53  9922.75  1281.40 9963.80  1281.39 9967.23  1281.34 9968.98
GR   1280.8 9988.16  1280.76  9995.05  1280.56 9995.87  1279.57 10000.00 1279.52 10000.22
GR   1279.4 10000.80 1279.31  10001.07 1279.93 10002.69 1282.61 10009.79 1282.42 10017.57
GR   1282.1 10029.20 1280.69  10032.04 1280.41 10032.84 1280.10 10033.73 1280.16 10037.02
GR   1280.2 10040.12 1280.64  10060.55 1281.36 10062.14 1282.46 10064.85 1282.57 10066.90
GR   1282.3 10075.14 1282.11  10076.88 1281.66 10078.82 1281.48 10079.74 1281.42 10080.02
GR   1281.3 10080.51 1280.87  10082.61 1280.57 10084.01 1280.18 10085.87 1279.77 10087.77
GR   1279.1 10090.78 1278.88  10091.88 1278.84 10092.98

NC    .035     .025     .040
ET            7.1      7.1       7.1      7.1          9217.33 10011.04
        TOP OF E. CANAL BANK=1282.6 AND W. BANK=1282.4.
X1   16.852      86   9993.66  10011.04     445     425     425
GR   1284.8 9217.33  1284.64  9258.13  1284.63 9261.04  1284.61 9263.95  1284.59 9269.13
GR   1284.4 9299.12  1285.04  9301.19  1285.70 9303.27  1286.23 9305.21  1286.78 9307.10
GR   1296.8 9336.72  1296.82  9338.83  1296.39 9359.15  1296.47 9372.55  1295.96 9399.63
GR   1294.8 9428.68  1294.56  9433.41  1294.27 9439.89  1293.57 9443.94  1292.98 9447.52
GR   1287.4 9483.77  1286.68  9488.50  1285.15 9498.84  1283.73 9507.45  1283.39 9510.68
GR   1283.0 9514.69  1282.92  9520.75  1282.87 9526.42  1282.82 9532.30  1282.78 9536.93
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GR   1282.8   9540.19   1282.76   9543.15   1282.74   9546.49   1282.71   9551.78   1282.33   9603.05
GR   1282.1   9638.48   1281.83   9668.71   1281.76   9680.09   1281.64   9708.84   1281.50   9734.31
GR   1281.6   9757.44   1281.48   9801.35   1281.26   9817.86   1280.97   9845.05   1280.93   9854.55
GR   1280.9   9861.85   1280.55   9913.08   1280.52   9922.22   1280.66   9929.93   1281.39   9966.70
GR   1281.3   9976.73   1281.17   9990.11   1281.33   9991.93   1281.39   9992.54   1281.45   9992.90
GR   1281.5   9993.36   1281.53   9993.66   1281.41   9993.94   1281.25   9994.34   1281.07   9994.76
GR   1280.8   9995.40   1280.57   9996.05   1280.37   9996.82   1280.13   9997.66   1279.41  10000.00
GR   1279.1  10001.10   1280.73  10005.49   1282.67  10011.04   1282.39  10021.33   1282.17  10029.70
GR   1281.4  10031.55   1280.11  10033.66   1280.15  10046.70   1280.17  10061.01   1281.78  10065.19
GR   1282.1  10065.94   1282.36  10066.58   1282.45  10067.64   1282.33  10077.18   1282.17  10078.22
GR   1281.6  10081.15   1281.45  10081.68   1281.29  10082.37   1280.79  10084.68   1280.09  10087.95
GR   1280.0  10088.21

ET              7.1        7.1        7.1        7.1             9445.34  10007.37
     DOWNSTREAM EDGE OF GREENFIELD ROAD.
     ONE EX. 48 INCH RCP X 95 FT. LONG W/ HEADWALL MODELLED BY SPECIAL
     CULVERT OPTION WITH ROAD PROFILE MODELLED BY BT RECORD.
     A TOP OF ROAD PROFILE OF LEVEL 1285.0 WAS MODELED FOR GREENFIELD RD.
     DIGITIZED ELS. VARIED FROM 1284.5 TO 1285.0, BUT REVIEW OF RD.
     PLANS SUGGESTED NO LOWER EL. THAN 1285.0 .
X1   16.921       90   9985.73  10007.37       400       370       370
X3       10
GR   1287.0   9445.34   1283.71   9470.83   1283.50   9489.58   1283.43   9501.70   1283.45   9524.04
GR   1283.2   9554.27   1283.08   9563.91   1282.96   9578.55   1282.70   9616.69   1282.63   9630.32
GR   1282.6   9631.64   1282.64   9635.83   1282.64   9638.14   1282.87   9639.65   1284.54   9650.42
GR   1283.0   9665.26   1282.97   9666.02   1282.93   9672.05   1282.91   9676.58   1282.89   9679.48
GR   1282.8   9695.10   1283.17   9711.94   1283.17   9712.48   1283.19   9713.33   1283.20   9714.44
GR   1283.2   9715.33   1282.98   9752.49   1282.94   9753.45   1282.94   9759.59   1282.97   9760.57
GR   1282.9   9792.95   1282.94   9809.42   1282.94   9811.23   1282.95   9812.94   1282.79   9820.50
GR   1282.7   9832.05   1282.68   9836.79   1282.72   9840.99   1282.68   9849.43   1282.85   9860.12
GR   1283.0   9868.24   1283.23   9876.67   1283.22   9881.44   1282.43   9908.50   1282.40   9912.29
GR   1282.3   9913.64   1282.13   9934.24   1282.16   9935.53   1281.82   9937.36   1281.65   9938.31
GR   1281.4   9939.98   1280.01   9945.16   1279.87   9945.94   1278.32   9953.17   1279.29   9956.46
GR   1279.4   9956.80   1279.56   9957.32   1279.76   9957.94   1280.22   9959.39   1280.71   9960.96
GR   1281.6   9963.74   1282.37   9966.40   1282.70   9967.29   1282.74   9969.03   1282.83   9973.58
GR   1282.9   9976.65   1282.94   9978.61   1283.17   9985.73   1283.05   9986.31   1282.91   9986.85
GR   1282.8   9987.35   1282.60   9987.87   1278.82   9993.59   1279.06   9998.96   1279.67  10000.00
GR   1280.1  10000.65   1282.58  10005.65   1285.10  10007.37   1284.81  10014.68   1284.66  10022.97
GR   1282.2  10026.57   1280.52  10031.30   1279.77  10054.66   1279.83  10060.93   1280.43  10062.14
GR   1284.9  10065.86   1284.17  10073.45   1283.85  10079.02   1283.86  10080.27   1283.87  10081.43

ET              7.1        7.1        7.1        7.1             9445.34  10007.37
SC   1.012      0.5        3.0                   4         0        95       1.1     1275.8    1275.7
X1  16.939        0          0          0         95        95        95
X2                           2     1279.8       1285
X3       10
BT        2     9560       1285                10010      1285

NC     .035     .025       .035
ET              7.1        7.1        7.1        7.1             9656.82  10004.49
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X1	17.014	73	9980.90	10004.49	350	400	400			
X3	10									
GR	1293.9	9392.24	1293.90	9392.44	1293.16	9428.76	1291.99	9443.87	1290.00	9461.58
GR	1288.6	9470.88	1288.21	9473.79	1287.34	9480.58	1285.33	9493.10	1285.16	9497.59
GR	1285.0	9503.44	1284.32	9512.42	1284.34	9549.75	1284.27	9553.07	1283.31	9589.65
GR	1283.4	9591.90	1284.23	9608.93	1284.51	9610.41	1285.20	9618.07	1285.55	9623.66
GR	1285.7	9630.26	1285.75	9637.48	1285.73	9638.31	1287.40	9656.82	1284.63	9691.44
GR	1283.5	9734.82	1283.38	9756.63	1282.84	9823.00	1282.73	9838.31	1282.51	9876.20
GR	1282.5	9935.09	1282.57	9951.84	1282.56	9952.88	1282.55	9954.66	1282.52	9959.41
GR	1282.5	9962.26	1282.49	9964.76	1282.47	9968.23	1282.44	9972.84	1282.42	9975.96
GR	1282.4	9978.51	1282.39	9980.90	1281.44	9984.12	1280.83	9985.46	1280.65	9985.79
GR	1280.5	9986.08	1280.29	9986.30	1278.66	9989.22	1280.20	9992.57	1280.59	9993.50
GR	1280.8	9993.84	1280.96	9994.22	1281.07	9994.44	1281.42	9995.18	1281.76	9995.79
GR	1282.1	9996.41	1282.24	9996.79	1282.98	9998.07	1283.46	10004.49	1283.20	10011.23
GR	1283.0	10016.07	1281.20	10020.82	1280.33	10023.28	1280.25	10026.20	1279.59	10049.84
GR	1282.3	10054.19	1283.03	10055.17	1282.68	10069.31	1282.40	10071.22	1280.35	10084.07
GR	1279.9	10087.96	1279.56	10091.63	1279.52	10134.40				
QT	2	45	50							
NC	.030	.025	.035							
ET		7.1	7.1	7.1	7.1		9022.68	10008.11		
SC	1.012	0.5	3.0		4	0	730	1.1	1277.21	1277.01
X1	17.160	81	9967.33	10008.11	775	550	775			
X2			2	1281.21	1285.6					
X3	10									
GR	1286.5	9022.68	1286.38	9043.30	1286.30	9073.21	1286.24	9093.31	1286.14	9112.99
GR	1286.0	9143.34	1286.16	9172.82	1286.20	9180.11	1286.35	9184.67	1286.38	9185.43
GR	1286.4	9186.55	1286.46	9187.51	1286.48	9188.21	1286.52	9190.32	1286.54	9195.40
GR	1286.6	9197.58	1286.79	9202.03	1285.67	9227.48	1285.66	9227.88	1285.33	9240.03
GR	1286.1	9270.05	1286.15	9270.37	1286.18	9270.64	1286.94	9278.21	1286.79	9279.82
GR	1286.3	9283.56	1286.03	9289.07	1285.48	9306.01	1284.84	9325.89	1285.30	9330.07
GR	1285.7	9333.46	1285.70	9337.89	1284.56	9355.11	1284.02	9360.19	1283.73	9374.14
GR	1284.1	9393.03	1284.02	9404.90	1283.99	9424.84	1283.97	9428.87	1283.64	9443.28
GR	1283.0	9446.96	1281.99	9455.17	1276.84	9486.38	1277.04	9548.47	1276.98	9569.45
GR	1278.2	9577.58	1280.23	9592.93	1281.73	9673.37	1281.63	9694.25	1281.67	9703.50
GR	1281.6	9712.55	1281.56	9737.24	1281.78	9778.93	1281.74	9788.35	1281.84	9809.64
GR	1281.8	9819.54	1281.78	9887.44	1281.88	9896.60	1283.13	9936.12	1283.35	9940.44
GR	1283.9	9955.92	1284.41	9960.88	1284.59	9967.33	1282.96	9973.95	1278.54	9994.17
GR	1279.8	9996.36	1281.59	10000.00	1281.96	10000.73	1284.77	10008.11	1284.58	10017.04
GR	1284.4	10022.50	1279.89	10033.15	1279.87	10033.47	1278.71	10058.09	1282.64	10063.46
GR	1283.3	10064.44	1283.16	10068.23	1282.86	10074.78	1279.32	10084.20	1278.74	10086.27
GR	1279.5	10091.64								
ET		7.1	7.1	7.1	7.1		9031.26	10025.29		
X1	17.183	86	9981.03	10007.41	112	120	120			
GR	1286.5	9031.26	1286.55	9049.15	1286.44	9067.41	1286.36	9099.16	1286.10	9137.32
GR	1286.1	9154.36	1286.05	9156.05	1285.97	9157.98	1286.44	9161.33	1287.24	9166.85
GR	1287.1	9169.16	1286.97	9172.66	1285.72	9197.42	1286.19	9217.57	1286.40	9227.74
GR	1286.8	9231.80	1286.89	9232.86	1286.84	9233.40	1286.76	9233.86	1286.70	9234.46
GR	1286.7	9234.94	1286.64	9235.47	1286.35	9238.44	1285.66	9260.35	1285.45	9266.63
GR	1285.4	9268.52	1285.15	9277.70	1285.24	9278.71	1286.01	9283.81	1284.60	9302.53
GR	1284.5	9303.14	1284.53	9303.43	1283.94	9315.88	1281.45	9329.37	1278.21	9349.15
GR	1274.5	9377.71	1272.06	9399.17	1270.77	9414.26	1270.73	9415.08	1270.63	9419.09
GR	1270.2	9438.14	1269.83	9449.16	1269.31	9476.70	1268.93	9499.16	1268.73	9526.23

GR	1268.7	9549.18	1268.69	9572.60	1268.54	9599.18	1268.60	9623.13	1268.59	9649.18
GR	1268.6	9673.66	1268.53	9699.18	1268.48	9724.17	1268.36	9749.18	1268.31	9774.69
GR	1268.1	9799.18	1268.17	9825.22	1268.30	9849.20	1269.07	9869.40	1269.54	9894.47
GR	1270.5	9910.52	1270.59	9912.40	1270.91	9913.92	1278.05	9949.20	1282.56	9973.27
GR	1284.3	9981.03	1283.39	9983.87	1278.75	9995.70	1280.80	10000.00	1282.38	10003.32
GR	1284.6	10007.41	1284.54	10010.06	1284.65	10025.29	1284.63	10026.98	1281.60	10034.32
GR	1280.4	10037.03	1279.86	10038.03	1279.43	10046.84	1278.72	10060.94	1279.52	10062.13
GR	1283.0	10066.22	1282.72	10072.06	1282.56	10078.93	1280.91	10084.97	1279.97	10088.14
GR	1280.8	10098.14								
ET		7.1	7.1	7.1	7.1		9031.40	10004.34		
X1	17.256	70	9979.20	10004.34	420	390	390			
GR	1287.9	9031.40	1287.85	9032.37	1287.86	9033.15	1287.95	9041.02	1288.25	9079.85
GR	1288.3	9082.68	1288.30	9084.12	1286.94	9108.59	1286.78	9118.18	1287.28	9138.07
GR	1287.7	9153.39	1287.50	9161.70	1286.84	9185.99	1286.24	9194.96	1286.20	9195.55
GR	1286.3	9196.83	1287.23	9205.70	1286.92	9219.75	1286.14	9233.36	1284.86	9261.56
GR	1283.2	9283.60	1281.02	9310.55	1280.07	9333.83	1279.62	9352.88	1277.75	9384.11
GR	1277.5	9398.61	1275.80	9434.36	1275.59	9444.28	1274.78	9482.45	1274.17	9514.79
GR	1273.8	9532.60	1273.59	9548.16	1272.87	9593.89	1272.73	9605.76	1272.20	9642.38
GR	1272.0	9651.31	1271.17	9721.90	1271.12	9726.87	1270.84	9769.59	1270.76	9773.48
GR	1270.3	9808.96	1270.26	9810.15	1270.00	9828.54	1269.94	9850.80	1269.97	9853.67
GR	1270.0	9866.38	1270.08	9870.75	1270.84	9886.09	1271.37	9894.76	1276.15	9936.87
GR	1279.1	9955.55	1283.80	9979.20	1281.64	9984.96	1278.31	9991.88	1282.49	10000.00
GR	1282.7	10000.37	1284.34	10004.34	1284.16	10015.34	1284.08	10020.88	1284.04	10023.89
GR	1280.8	10032.80	1279.47	10035.85	1279.26	10044.05	1278.92	10056.76	1282.89	10062.89
GR	1282.9	10063.37	1282.96	10070.16	1282.81	10073.81	1281.49	10078.44	1280.26	10083.38
ET		7.1	7.1	7.1	7.1		9016.02	10008.42		
X1	17.277	65	9885.55	10008.42	110	110	110			
GR	1289.1	9016.02	1288.87	9047.18	1288.61	9071.65	1287.37	9091.91	1286.45	9106.22
GR	1287.4	9135.13	1287.69	9142.62	1287.57	9147.97	1287.03	9173.51	1287.02	9174.08
GR	1286.8	9181.47	1286.55	9185.23	1286.24	9190.96	1286.72	9193.51	1287.44	9198.61
GR	1287.5	9199.08	1287.24	9211.21	1287.22	9212.77	1286.93	9234.02	1285.68	9314.53
GR	1285.6	9379.92	1285.36	9463.21	1285.31	9487.76	1285.07	9536.29	1283.97	9718.50
GR	1283.9	9730.14	1283.86	9730.97	1283.85	9733.87	1283.66	9787.47	1283.91	9803.99
GR	1284.0	9814.04	1284.14	9830.57	1284.05	9855.19	1283.85	9868.45	1282.32	9872.30
GR	1282.0	9874.36	1282.39	9875.81	1284.11	9882.33	1284.60	9885.55	1283.27	9914.20
GR	1283.2	9922.50	1283.17	9927.00	1282.61	9931.23	1279.90	9979.77	1279.43	9983.67
GR	1279.6	9988.88	1278.19	9993.20	1281.11	10000.00	1284.06	10006.84	1284.80	10008.42
GR	1284.7	10019.40	1284.66	10022.81	1284.62	10024.30	1284.47	10024.69	1279.34	10035.79
GR	1279.0	10050.93	1278.92	10056.55	1279.79	10057.45	1281.67	10060.72	1282.95	10062.65
GR	1282.8	10068.94	1282.78	10072.74	1281.31	10078.98	1280.38	10083.20	1280.82	10087.53
ET		7.1	7.1	7.1	7.1		9036.78	10007.12		
NH	4	.060	9849.98	.030	9976.66	.035	10007.12	.025	10082.49	
X1	17.325	91	9976.66	10007.12	255	255	255			
GR	1288.7	9036.78	1288.68	9039.96	1288.70	9042.36	1288.72	9045.03	1288.73	9047.07
GR	1289.0	9051.05	1289.25	9054.36	1289.48	9057.51	1289.81	9062.12	1288.72	9068.98
GR	1287.6	9075.87	1287.46	9076.98	1287.37	9077.57	1287.03	9079.52	1287.07	9081.00
GR	1288.0	9116.67	1287.87	9116.88	1287.59	9137.75	1287.46	9144.47	1287.44	9145.50
GR	1287.4	9152.42	1287.26	9155.27	1286.71	9162.09	1287.82	9169.68	1287.92	9170.50
GR	1287.5	9190.86	1287.41	9195.48	1287.35	9196.85	1287.01	9240.30	1286.96	9251.00
GR	1286.7	9297.34	1286.27	9326.10	1286.23	9337.80	1285.93	9406.03	1285.89	9414.73
GR	1285.5	9486.30	1285.49	9529.75	1285.42	9541.18	1285.45	9590.29	1285.41	9598.87

GR	1285.4	9605.88	1284.82	9649.13	1284.78	9651.58	1284.67	9676.06	1284.52	9699.36
GR	1284.5	9701.03	1284.13	9747.36	1284.12	9753.40	1283.89	9794.34	1283.39	9820.80
GR	1283.3	9826.08	1283.05	9833.99	1282.82	9843.81	1282.67	9849.98	1283.02	9851.29
GR	1283.9	9854.72	1284.78	9857.91	1285.38	9860.18	1287.23	9866.54	1285.57	9869.88
GR	1284.4	9872.56	1285.57	9875.63	1286.38	9878.28	1285.80	9881.35	1285.81	9881.57
GR	1286.4	9900.35	1286.26	9921.27	1286.04	9946.70	1285.80	9953.41	1285.30	9958.31
GR	1285.4	9965.91	1286.17	9974.50	1286.53	9976.66	1284.47	9980.64	1278.61	9990.41
GR	1281.2	9997.31	1281.96	10000.00	1283.16	10004.38	1284.42	10007.12	1284.14	10020.10
GR	1284.0	10025.43	1280.61	10032.29	1279.23	10035.33	1279.19	10038.82	1278.94	10056.07
GR	1280.6	10058.62	1283.09	10061.78	1282.85	10071.44	1282.84	10072.63	1282.50	10073.81
GR	1280.2	10082.49								

NH	4	.06	9788.63	.030	9988.77	.035	10011.62	.025	10094.55	
ET		7.1	7.1	7.1	7.1		9058.07	10011.62		
X1	17.435	73	9988.77	10011.62	570	580	580			
GR	1288.7	9058.07	1288.34	9090.92	1288.11	9095.53	1287.18	9102.44	1287.06	9103.30
GR	1287.2	9104.07	1287.23	9104.53	1287.57	9106.30	1288.14	9109.17	1288.03	9121.24
GR	1287.7	9150.60	1286.56	9222.18	1286.21	9251.61	1286.16	9258.88	1286.03	9388.79
GR	1286.0	9389.08	1285.71	9452.81	1285.21	9514.70	1285.33	9527.36	1285.22	9545.24
GR	1285.0	9577.98	1284.77	9595.23	1284.67	9611.52	1284.51	9645.27	1284.38	9660.13
GR	1284.2	9695.28	1284.06	9722.83	1283.99	9733.23	1283.65	9759.62	1283.44	9775.59
GR	1283.3	9788.63	1285.59	9796.79	1286.96	9801.63	1287.44	9803.31	1287.68	9804.19
GR	1288.2	9805.99	1288.06	9806.21	1285.34	9811.79	1286.85	9815.04	1288.21	9817.88
GR	1287.3	9821.23	1287.28	9822.09	1287.18	9833.36	1286.67	9840.55	1286.02	9849.80
GR	1285.6	9855.22	1284.61	9867.80	1284.05	9875.23	1283.29	9893.01	1283.14	9911.65
GR	1283.0	9928.41	1282.91	9940.64	1282.72	9957.66	1282.38	9987.78	1281.89	9988.77
GR	1279.1	9995.20	1280.60	10000.00	1282.39	10005.85	1284.12	10011.62	1284.16	10018.97
GR	1284.1	10026.41	1282.81	10029.27	1279.18	10037.04	1279.12	10048.39	1279.06	10057.87
GR	1281.3	10060.53	1283.36	10062.96	1283.28	10069.51	1283.24	10074.63	1281.30	10080.72
GR	1280.5	10083.68	1280.95	10086.34	1282.25	10094.55				

NH	4	.06	9761.55	.03	9954.01	.035	10009.47	.025	10084.86	
ET		7.1	7.1	7.1	7.1		9011.11	10009.47		
X1	17.485	92	9954.01	10009.47	270	260	260			
GR	1289.1	9011.11	1289.31	9022.72	1288.89	9045.35	1288.72	9054.66	1288.70	9055.81
GR	1288.6	9060.23	1288.60	9061.35	1288.40	9062.50	1287.22	9070.45	1287.49	9073.02
GR	1288.2	9080.58	1288.01	9105.03	1287.75	9123.17	1287.37	9154.40	1286.96	9182.64
GR	1286.9	9186.87	1286.80	9199.44	1286.70	9215.12	1286.34	9286.25	1286.03	9316.45
GR	1286.0	9334.15	1285.93	9368.59	1285.91	9380.12	1286.01	9418.83	1286.04	9426.05
GR	1285.6	9469.03	1285.40	9503.57	1285.31	9517.94	1285.30	9519.28	1284.93	9563.90
GR	1284.9	9569.50	1284.84	9576.23	1284.53	9619.71	1284.50	9631.60	1284.12	9669.89
GR	1283.9	9701.38	1283.76	9719.49	1283.58	9760.69	1283.57	9761.55	1284.46	9765.13
GR	1285.0	9767.40	1285.36	9768.83	1285.57	9769.70	1285.74	9770.38	1285.87	9770.95
GR	1286.9	9774.19	1286.45	9775.27	1284.67	9780.98	1287.07	9785.11	1287.35	9785.96
GR	1287.1	9787.25	1286.50	9790.01	1285.58	9814.30	1285.14	9834.31	1284.46	9846.76
GR	1283.6	9870.89	1283.40	9874.43	1283.10	9880.24	1283.07	9881.88	1283.06	9882.73
GR	1285.5	9890.85	1287.46	9897.64	1287.58	9902.01	1287.66	9905.63	1287.72	9907.99
GR	1287.8	9909.89	1287.80	9911.54	1288.03	9920.99	1288.23	9936.36	1288.21	9938.62
GR	1288.2	9942.68	1288.10	9949.51	1288.05	9954.01	1285.62	9962.14	1282.91	9971.45
GR	1282.8	9972.51	1279.11	9994.80	1280.99	10000.00	1282.26	10003.48	1284.46	10009.47
GR	1284.5	10017.14	1284.37	10027.03	1281.92	10031.72	1279.16	10037.53	1279.10	10049.32
GR	1279.1	10058.69	1281.24	10061.39	1283.55	10064.09	1283.19	10070.68	1282.97	10075.69
GR	1282.0	10079.64	1280.79	10084.86						

QT	2	32	190							
ET		7.1	7.1	7.1	7.1		9006.43	10017.09		
NH	4	.06	9713.46	.030	9988.80	.035	10017.09	.025	10087.31	
X1	17.570	79	9988.80	10017.09	445	445	445			
X3	10									
GR	1289.5	9006.43	1289.23	9020.87	1288.16	9025.51	1287.75	9026.98	1287.61	9027.92
GR	1287.7	9028.58	1287.69	9036.16	1287.85	9072.56	1287.49	9109.70	1287.16	9131.53
GR	1286.9	9167.47	1286.76	9242.80	1286.74	9279.10	1286.46	9326.74	1286.45	9330.27
GR	1286.4	9333.48	1286.05	9379.99	1285.98	9390.19	1285.67	9430.02	1285.62	9460.43
GR	1285.7	9471.33	1285.23	9521.40	1285.15	9530.02	1285.36	9572.00	1285.34	9580.00
GR	1285.2	9622.61	1285.17	9630.02	1285.09	9637.25	1284.79	9680.05	1284.74	9688.63
GR	1284.7	9689.89	1284.73	9691.77	1284.70	9695.91	1284.67	9705.08	1284.62	9713.46
GR	1285.1	9717.27	1286.90	9727.16	1287.44	9728.87	1287.44	9731.18	1287.39	9739.65
GR	1287.1	9742.71	1285.66	9757.52	1285.48	9759.63	1285.42	9760.77	1286.67	9778.26
GR	1286.6	9802.62	1286.52	9808.19	1286.37	9854.88	1286.38	9857.57	1285.03	9894.49
GR	1285.1	9905.04	1285.67	9907.32	1285.65	9909.41	1284.72	9920.08	1284.49	9939.02
GR	1284.0	9941.30	1284.01	9950.21	1284.04	9960.60	1284.12	9971.14	1284.23	9978.75
GR	1284.4	9979.44	1284.57	9986.66	1284.73	9988.80	1281.08	10000.00	1280.36	10001.75
GR	1280.1	10002.30	1280.25	10002.67	1285.55	10017.09	1285.52	10018.61	1285.24	10028.96
GR	1284.0	10031.18	1279.77	10038.05	1280.12	10053.93	1280.22	10060.21	1282.44	10064.70
GR	1284.4	10068.16	1284.41	10069.73	1284.66	10082.51	1284.37	10087.31		
ET		7.1	7.1	7.1	7.1		9004.88	10026.22		
NC	.035	.025	.035							
SC	2.012	0.5	3.0	0	2	0	160	1.1	1280.93	1279.08
X1	17.608	60	9983.70	10007.90	200	200	200			
X2			2	1282.90	1285.49					
X3	10									
BT	-14	9004.88	1289.8		9057.05	1289.00		9103.70	1288.67	
BT		9240.40	1287.15		9452.21	1285.85		9531.45	1285.6	
BT		9585.51	1285.51		9691.34	1285.49		9747.76	1285.65	
BT		9805.62	1285.92		9875.31	1286.15		9948.85	1286.5	
BT		9992.50	1286.71		10099.93	1286.71				
GR	1287.2	9004.88	1287.13	9008.90	1288.02	9021.30	1287.48	9047.37	1287.36	9054.58
GR	1287.3	9058.04	1287.22	9060.76	1287.16	9064.16	1287.03	9106.79	1287.01	9111.86
GR	1287.0	9118.64	1286.82	9161.53	1286.81	9165.48	1286.68	9208.88	1286.64	9215.23
GR	1286.5	9258.89	1286.51	9263.71	1286.40	9307.64	1286.37	9311.56	1286.23	9314.82
GR	1286.1	9404.22	1287.20	9411.37	1286.90	9453.92	1286.71	9496.80	1285.38	9521.22
GR	1285.1	9566.45	1284.96	9611.90	1284.97	9657.57	1284.93	9670.48	1284.82	9716.24
GR	1284.5	9762.19	1284.28	9808.43	1284.29	9816.57	1284.11	9862.84	1283.90	9909.37
GR	1283.9	9913.82	1284.00	9918.26	1283.93	9923.38	1283.67	9957.79	1283.95	9968.86
GR	1283.9	9972.61	1284.72	9983.70	1283.52	9985.82	1280.31	9992.26	1283.81	10000.00
GR	1286.2	10005.21	1286.79	10006.74	1286.82	10007.90	1287.05	10026.22	1284.73	10030.15
GR	1283.6	10032.58	1283.57	10063.55	1283.56	10066.78	1283.81	10067.21	1286.44	10072.24
GR	1286.4	10073.42	1286.60	10086.03	1284.15	10098.79	1284.04	10099.19	1283.93	10099.93
ET		7.1	7.1	7.1	7.1		9107.28	10033.23		
X1	17.683	61	9988.00	10011.38	390	390	390			
GR	1287.6	9007.28	1287.57	9012.88	1287.52	9016.78	1287.50	9019.76	1287.48	9021.64
GR	1287.4	9028.93	1287.39	9032.87	1287.24	9078.92	1287.22	9082.14	1287.08	9128.94
GR	1286.9	9177.09	1286.85	9178.93	1286.68	9227.76	1286.68	9228.90	1286.48	9278.57
GR	1286.5	9278.94	1286.42	9304.06	1286.36	9328.60	1286.36	9328.95	1286.35	9329.31
GR	1286.1	9378.95	1286.13	9380.08	1285.96	9428.97	1285.95	9430.82	1285.83	9478.96

GR	1285.8	9481.55	1285.63	9528.97	1285.40	9575.02	1285.39	9578.97	1285.16	9624.32
GR	1285.1	9628.98	1285.13	9633.77	1284.93	9678.99	1284.90	9684.52	1284.64	9728.99
GR	1284.6	9735.25	1284.39	9779.01	1284.34	9786.02	1284.11	9829.00	1284.10	9836.76
GR	1284.1	9879.01	1284.03	9887.50	1283.96	9929.01	1284.05	9971.89	1284.09	9988.00
GR	1283.7	9988.84	1280.31	9996.92	1281.54	10000.00	1283.50	10004.89	1285.89	10011.38
GR	1286.3	10020.30	1287.05	10033.23	1285.99	10035.46	1283.67	10041.19	1283.67	10062.65
GR	1283.6	10071.72	1285.33	10074.90	1286.24	10076.71	1286.18	10089.55	1286.19	10090.75
GR	1286.1	10091.03								
ET		7.1	7.1	7.1	7.1		9030.01	10098.67		
NH	4	.035	9538.29	.040	9997.50	.035	10024.32	.025	10098.67	
X1	17.780	60	9997.50	10024.32	510	510	510			
GR	1288.3	9030.01	1288.21	9043.01	1288.11	9068.86	1288.03	9083.20	1287.86	9113.24
GR	1287.6	9157.74	1287.40	9195.13	1287.33	9208.41	1287.12	9247.96	1287.09	9257.61
GR	1287.0	9281.18	1286.70	9331.32	1286.61	9354.89	1286.49	9404.49	1286.39	9426.50
GR	1286.2	9456.73	1286.10	9491.21	1286.10	9502.32	1286.14	9515.20	1286.25	9538.29
GR	1286.2	9540.14	1286.64	9572.58	1286.72	9593.43	1286.61	9604.25	1285.95	9651.02
GR	1286.0	9660.53	1284.81	9686.05	1284.62	9712.42	1284.47	9736.05	1284.65	9753.33
GR	1284.7	9753.86	1284.65	9754.30	1284.65	9755.82	1284.67	9776.12	1284.51	9788.42
GR	1284.2	9824.39	1284.09	9835.39	1284.16	9875.24	1284.19	9886.40	1283.85	9934.89
GR	1283.8	9942.37	1283.74	9954.27	1285.01	9994.25	1285.09	9997.11	1285.13	9997.50
GR	1284.9	9998.25	1284.32	10000.00	1280.31	10011.62	1282.86	10017.18	1285.86	10024.32
GR	1286.3	10030.71	1287.05	10042.48	1284.33	10048.35	1283.64	10049.78	1283.69	10056.90
GR	1283.9	10081.08	1285.50	10084.32	1286.81	10086.93	1286.57	10098.10	1286.56	10098.67
NC	0.079	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9012.63	10038.49		
X1	17.834	70	10001.76	10023.15	280.00	285.00	285.00			
GR	1288.0	9012.63	1287.93	9014.97	1287.86	9016.18	1287.76	9028.46	1287.61	9044.54
GR	1287.6	9051.46	1287.51	9056.37	1287.49	9059.63	1287.45	9064.94	1287.40	9070.66
GR	1287.4	9073.16	1287.37	9112.10	1287.29	9130.01	1287.29	9162.87	1287.13	9195.22
GR	1287.1	9216.99	1287.06	9239.08	1287.18	9260.21	1287.05	9294.13	1286.68	9334.09
GR	1286.4	9364.90	1286.07	9395.02	1286.11	9412.90	1286.26	9442.43	1285.90	9470.58
GR	1285.8	9480.50	1285.77	9491.85	1285.77	9512.90	1285.89	9534.37	1285.77	9566.15
GR	1285.7	9598.18	1285.26	9654.49	1285.12	9674.11	1284.77	9700.25	1285.15	9718.07
GR	1284.7	9756.50	1284.45	9774.23	1284.42	9818.80	1284.42	9828.11	1284.37	9834.11
GR	1284.3	9842.06	1284.36	9849.24	1284.25	9862.15	1284.25	9869.75	1284.23	9879.88
GR	1284.3	9892.26	1284.18	9903.12	1284.08	9913.84	1284.06	9921.07	1283.89	9944.27
GR	1283.8	9960.12	1283.91	9980.36	1284.06	10000.00	1284.07	10001.76	1280.44	10010.99
GR	1280.3	10011.34	1280.48	10011.69	1285.54	10023.15	1285.73	10025.11	1287.05	10038.49
GR	1286.2	10039.87	1285.19	10041.43	1283.81	10043.46	1283.45	10073.45	1283.39	10078.25
GR	1283.9	10078.96	1285.50	10080.76	1286.08	10081.52	1286.14	10085.99	1286.23	10095.50
ET		7.1	7.1	7.1	7.1		9008.88	10038.05		
X1	17.872	60	10001.04	10023.87	195.00	200.00	200.00			
GR	1288.1	9008.88	1288.07	9036.66	1287.95	9059.87	1287.86	9082.47	1287.88	9109.89
GR	1287.8	9123.96	1287.57	9151.58	1287.30	9189.45	1286.95	9209.44	1286.92	9245.88
GR	1286.9	9257.45	1286.85	9268.71	1286.83	9299.40	1286.76	9332.29	1286.78	9358.91
GR	1286.6	9381.72	1286.26	9408.89	1285.96	9436.68	1285.85	9458.91	1285.67	9487.85
GR	1285.6	9503.43	1285.75	9531.50	1285.75	9547.98	1285.46	9566.26	1284.85	9601.97
GR	1284.9	9630.38	1285.06	9660.98	1284.86	9671.17	1284.67	9701.34	1284.66	9704.04
GR	1284.7	9708.94	1284.53	9727.80	1284.40	9758.94	1284.26	9777.26	1284.10	9808.94
GR	1284.1	9841.38	1283.95	9858.96	1283.92	9876.13	1283.99	9908.94	1283.88	9942.51
GR	1283.9	9961.51	1284.18	9996.27	1284.24	10000.00	1284.25	10001.04	1281.06	10005.89

GR	1280.3	10007.22	1282.31	10012.93	1286.14	10023.87	1286.52	10030.56	1287.05	10038.05
GR	1284.3	10043.12	1283.92	10043.92	1283.74	10044.33	1283.73	10045.35	1283.20	10076.25
GR	1283.6	10076.84	1283.98	10077.58	1286.29	10080.99	1286.30	10083.27	1286.35	10093.77
ET		7.1	7.1	7.1	7.1		9047.34	10035.79		
X1	17.934	52	9919.35	10031.63	350.00	320.00	320.00			
GR	1288.1	9047.34	1288.08	9068.46	1288.04	9083.56	1287.87	9115.49	1287.54	9165.47
GR	1287.3	9215.72	1287.18	9246.66	1286.88	9266.16	1286.61	9291.13	1286.48	9310.01
GR	1286.1	9347.83	1286.18	9365.57	1286.18	9393.45	1286.05	9415.48	1285.87	9448.01
GR	1285.9	9469.46	1285.78	9497.86	1285.61	9515.42	1285.46	9532.35	1285.18	9565.46
GR	1285.1	9583.04	1285.10	9615.48	1285.15	9648.04	1285.10	9665.47	1284.94	9682.53
GR	1284.6	9716.52	1284.41	9749.50	1284.34	9765.45	1284.16	9803.17	1284.00	9820.98
GR	1283.9	9865.49	1283.96	9868.20	1284.55	9919.35	1283.74	9974.99	1282.27	10007.90
GR	1280.3	10011.39	1283.90	10018.92	1286.75	10031.63	1287.05	10035.79	1285.76	10038.61
GR	1283.7	10043.21	1283.62	10073.22	1285.53	10075.51	1287.06	10077.81	1287.01	10089.66
GR	1287.0	10092.76	1285.76	10096.19	1282.13	10105.00	1282.20	10129.03	1282.26	10150.74
GR	1281.7	10152.27	1281.00	10164.01						
ET		7.1	7.1	7.1	7.1		8965.39	10036.64		
X1	17.984	57	10005.09	10025.51	275.0	260.0	260.0			
GR	1288.8	8965.39	1288.58	8992.77	1287.97	9047.93	1287.79	9083.89	1287.91	9099.28
GR	1287.8	9135.51	1287.73	9143.53	1287.56	9173.60	1287.46	9193.45	1287.44	9217.94
GR	1287.3	9249.87	1287.29	9281.81	1287.19	9296.41	1286.93	9331.30	1286.89	9343.76
GR	1286.7	9361.11	1286.49	9393.95	1286.05	9444.12	1286.18	9461.31	1286.10	9494.56
GR	1286.0	9527.79	1285.86	9543.52	1285.72	9563.42	1285.59	9603.75	1285.23	9630.98
GR	1285.1	9637.39	1284.74	9696.37	1284.73	9710.21	1284.77	9743.77	1284.64	9792.71
GR	1284.6	9793.43	1284.61	9811.17	1284.36	9846.36	1284.33	9865.67	1283.92	9897.77
GR	1284.2	9950.70	1284.23	10004.07	1283.70	10005.09	1280.31	10013.14	1286.39	10025.51
GR	1286.5	10027.66	1286.74	10031.19	1287.05	10036.64	1285.49	10040.69	1284.76	10041.84
GR	1284.3	10042.85	1283.64	10043.79	1283.62	10047.98	1283.60	10073.59	1284.74	10075.06
GR	1286.7	10078.59	1287.08	10085.30	1287.04	10092.08	1282.35	10105.87	1282.43	10116.79
GR	1282.4	10148.47	1281.78	10156.65						
NH	4	0.03	9364.88	0.25	9948.11	0.03	9995.03	0.035	10020.63	
ET		7.1	7.1	7.1	7.1		9017.20	10020.63		
X1	18.035	95	9995.03	10020.63	250.0	270.0	270.0			
GR	1288.5	9017.20	1288.50	9018.29	1288.53	9019.57	1288.56	9020.51	1288.51	9023.28
GR	1287.9	9079.77	1287.89	9081.86	1287.90	9083.82	1287.91	9085.45	1287.93	9087.24
GR	1287.5	9132.49	1287.48	9134.12	1287.44	9135.55	1287.43	9136.80	1287.51	9162.91
GR	1287.5	9181.44	1287.50	9183.58	1287.54	9185.54	1287.55	9186.86	1287.57	9187.70
GR	1287.2	9232.57	1287.14	9242.37	1287.00	9262.41	1287.00	9263.96	1287.00	9265.23
GR	1286.7	9348.13	1286.60	9362.76	1286.58	9363.50	1286.57	9364.10	1286.55	9364.88
GR	1286.4	9423.45	1286.34	9425.97	1286.34	9428.70	1286.36	9430.89	1286.36	9432.55
GR	1286.1	9459.07	1286.12	9460.59	1286.12	9462.26	1286.24	9465.12	1286.24	9466.51
GR	1286.2	9475.77	1286.23	9476.71	1286.23	9477.72	1286.25	9479.08	1286.31	9480.91
GR	1286.0	9488.66	1286.04	9490.80	1286.00	9493.04	1286.07	9497.15	1286.04	9499.40
GR	1285.8	9578.16	1285.71	9579.63	1285.70	9580.52	1285.69	9581.75	1285.70	9583.24
GR	1285.6	9591.24	1285.59	9592.84	1285.62	9594.15	1285.63	9595.76	1285.69	9597.77
GR	1285.9	9618.45	1285.86	9623.88	1285.87	9627.42	1285.79	9631.10	1285.73	9634.30
GR	1285.3	9706.38	1285.31	9708.00	1285.38	9712.00	1285.38	9713.86	1285.37	9715.36
GR	1285.3	9721.70	1285.32	9722.38	1284.97	9768.21	1284.97	9776.56	1284.73	9826.14
GR	1283.9	9948.11	1283.93	9950.14	1283.73	9956.56	1283.74	9958.32	1283.78	9960.71
GR	1283.8	9963.44	1283.89	9968.42	1283.90	9969.58	1283.91	9970.28	1284.01	9977.11
GR	1284.0	9977.88	1284.23	9995.03	1284.19	9996.07	1284.10	9998.74	1284.08	10000.00

GR	1284.0	10002.35	1281.61	10008.40	1281.09	10009.69	1282.90	10014.28	1285.40	10020.63
NC	0.035	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9045.14	10037.06		
X1	18.074	67	9968.03	10018.61	215.0	200.00	200.00			
GR	1289.8	9045.14	1289.65	9081.10	1289.21	9235.86	1289.14	9315.98	1288.46	9419.94
GR	1288.4	9478.07	1287.91	9557.80	1287.39	9644.29	1287.57	9727.60	1286.36	9813.96
GR	1286.3	9815.93	1285.96	9837.54	1286.21	9876.22	1286.30	9876.65	1286.49	9878.48
GR	1289.4	9887.11	1289.46	9888.78	1289.51	9893.52	1289.53	9895.58	1289.54	9898.39
GR	1289.6	9900.40	1289.58	9901.68	1289.59	9904.02	1289.59	9905.37	1289.58	9906.70
GR	1289.5	9909.24	1289.50	9910.02	1289.49	9910.47	1289.49	9911.33	1289.48	9911.56
GR	1289.5	9912.34	1289.45	9913.25	1289.37	9916.67	1289.34	9917.89	1289.34	9920.47
GR	1289.3	9923.42	1289.33	9924.69	1289.30	9927.97	1289.31	9929.25	1289.33	9932.27
GR	1289.4	9935.46	1289.48	9936.28	1283.98	9964.05	1284.19	9967.16	1284.26	9968.03
GR	1283.9	9983.60	1283.74	9986.60	1283.53	9991.06	1285.04	10014.46	1285.28	10018.61
GR	1285.4	10027.88	1285.57	10035.05	1285.57	10037.06	1284.05	10039.39	1284.49	10071.91
GR	1285.0	10072.79	1286.97	10076.56	1286.72	10079.64	1286.71	10081.91	1286.74	10087.59
GR	1284.2	10094.41	1282.88	10099.26	1281.88	10110.96	1281.86	10111.19	1282.14	10115.24
GR	1282.1	10115.86	1282.04	10125.17						
QT	2	162	170							
NH	4	0.02	9449.26	0.03	9659.16	0.03	10029.04	0.025	10036.06	
ET		7.1	7.1	7.1	7.1		9001.50	10029.04		
X1	18.101	95	9659.16	10029.04	205.00	140.00	140.00			
GR	1288.9	9001.50	1288.70	9012.18	1288.36	9036.74	1288.18	9044.52	1288.12	9051.72
GR	1286.1	9419.52	1286.08	9426.44	1286.17	9432.85	1286.18	9438.12	1286.01	9449.26
GR	1287.4	9524.85	1287.39	9538.12	1287.30	9574.88	1287.21	9598.09	1286.31	9632.58
GR	1285.7	9648.44	1285.29	9659.16	1284.16	9665.38	1283.53	9669.01	1281.84	9678.57
GR	1280.7	9685.10	1279.16	9693.98	1278.72	9696.75	1278.63	9697.85	1278.18	9703.27
GR	1278.1	9704.79	1277.70	9709.20	1277.49	9712.15	1277.20	9715.86	1276.70	9723.24
GR	1275.8	9735.59	1275.30	9737.93	1275.00	9739.67	1274.78	9741.00	1274.86	9747.03
GR	1274.9	9751.62	1274.87	9752.29	1274.90	9758.98	1274.90	9766.06	1274.91	9768.41
GR	1274.9	9770.61	1274.91	9771.38	1274.91	9772.09	1274.91	9772.78	1274.92	9775.18
GR	1274.9	9775.96	1274.93	9780.29	1274.93	9781.41	1274.95	9788.53	1274.95	9789.74
GR	1275.0	9790.39	1274.95	9792.83	1274.95	9794.48	1274.95	9796.46	1274.96	9798.54
GR	1275.0	9800.68	1274.96	9802.88	1274.97	9812.20	1274.97	9815.25	1274.97	9820.76
GR	1275.0	9824.75	1274.98	9826.88	1274.98	9827.82	1274.98	9832.06	1274.98	9836.58
GR	1275.0	9868.06	1276.20	9889.79	1276.36	9890.04	1277.08	9895.09	1277.46	9897.83
GR	1277.9	9900.82	1278.03	9901.87	1278.42	9904.42	1278.66	9906.05	1279.06	9908.64
GR	1279.2	9909.82	1279.37	9910.74	1279.48	9911.53	1279.60	9912.33	1279.72	9913.06
GR	1279.9	9913.90	1279.99	9914.75	1280.09	9915.42	1280.23	9916.29	1281.00	9920.98
GR	1282.3	9939.29	1283.44	9964.28	1283.47	9978.65	1283.95	9992.61	1284.09	9998.24
GR	1284.1	10000.00	1283.91	10010.87	1284.28	10013.62	1286.34	10029.04	1286.03	10036.06
NH	5	0.25	9184.29	0.02	9450.98	0.03	9968.01	0.021	10027.72	0.025
NH	10042									
ET		7.1	7.1	7.1	7.1		9009.44	10035.70		
X1	18.150	95	9968.01	10027.72	260.00	260.00	260.00			
GR	1288.2	9009.44	1288.25	9021.58	1288.29	9075.87	1288.28	9079.25	1288.25	9082.30
GR	1287.4	9114.62	1287.23	9130.39	1287.03	9157.54	1287.00	9162.22	1287.18	9184.29
GR	1285.5	9419.10	1285.59	9425.37	1285.92	9425.95	1285.24	9449.50	1285.20	9450.98
GR	1285.2	9451.50	1286.07	9483.02	1286.01	9485.65	1286.01	9486.14	1286.00	9486.40
GR	1286.0	9486.97	1285.95	9488.74	1285.37	9521.74	1285.45	9540.72	1285.35	9546.49
GR	1285.2	9551.13	1285.22	9551.64	1285.20	9552.13	1285.19	9552.61	1285.17	9553.47

GR	1285.2	9553.82	1284.99	9589.05	1284.79	9598.38	1283.97	9631.59	1283.25	9656.06
GR	1283.2	9668.20	1283.02	9689.33	1282.89	9705.41	1282.88	9705.95	1282.87	9706.64
GR	1282.9	9707.39	1282.87	9708.06	1282.86	9708.52	1282.85	9709.24	1282.84	9709.66
GR	1282.8	9710.17	1282.66	9723.63	1282.70	9724.97	1282.73	9726.63	1282.73	9727.28
GR	1282.6	9728.78	1282.50	9729.49	1281.90	9734.95	1281.38	9739.47	1280.73	9745.45
GR	1280.2	9750.08	1278.34	9767.33	1278.15	9769.07	1278.03	9770.18	1277.45	9775.32
GR	1277.2	9782.81	1277.07	9789.61	1276.27	9814.69	1275.99	9829.12	1276.45	9882.56
GR	1276.5	9886.79	1276.64	9888.43	1276.69	9888.71	1276.85	9889.64	1277.62	9894.35
GR	1277.7	9894.97	1277.98	9897.17	1280.82	9921.47	1282.83	9939.58	1283.11	9951.79
GR	1283.3	9958.90	1283.51	9968.01	1281.73	9972.57	1280.82	9974.91	1279.75	9977.86
GR	1279.0	9979.74	1277.24	9984.68	1276.86	9985.68	1275.85	9988.49	1277.04	9990.95
GR	1281.9	10000.00	1282.09	10000.28	1282.48	10001.11	1282.60	10003.47	1282.90	10008.25
GR	1283.4	10010.93	1283.38	10011.32	1286.81	10027.72	1286.90	10035.70	1286.88	10042.00
NH	5	0.25	9410.93	0.02	9443.80	0.03	9971.21	0.021	10030.95	0.025
NH	10046									
ET		7.1	7.1	7.1	7.1		9025.29	10042.23		
X1	18.197	95	9971.21	10030.95	250.00	250.00	250.00			
GR	1288.3	9025.29	1288.45	9050.84	1288.51	9066.54	1288.52	9108.51	1288.49	9113.12
GR	1287.6	9147.40	1287.44	9164.25	1287.21	9176.06	1287.56	9221.22	1287.55	9222.52
GR	1287.5	9224.23	1287.52	9225.62	1286.75	9256.93	1286.54	9286.38	1286.53	9294.55
GR	1287.0	9321.88	1286.94	9332.42	1286.89	9343.73	1286.00	9376.36	1285.95	9392.85
GR	1285.8	9410.93	1285.91	9425.78	1286.00	9426.95	1285.71	9443.80	1285.61	9451.84
GR	1285.5	9467.08	1281.27	9502.54	1281.04	9504.59	1280.80	9506.65	1280.71	9507.45
GR	1280.6	9508.13	1280.18	9512.27	1278.27	9533.40	1278.14	9534.74	1278.14	9535.06
GR	1277.5	9587.86	1276.93	9622.55	1276.86	9626.44	1276.87	9627.65	1276.91	9634.54
GR	1277.3	9695.61	1277.30	9697.00	1277.29	9698.78	1277.29	9700.30	1277.30	9701.74
GR	1277.1	9722.84	1277.18	9742.99	1277.54	9766.50	1277.53	9769.01	1277.51	9772.20
GR	1277.0	9815.75	1277.01	9816.97	1276.90	9837.96	1276.91	9840.08	1276.96	9855.49
GR	1277.3	9869.39	1277.45	9872.64	1279.68	9916.05	1279.93	9920.51	1279.96	9921.05
GR	1280.0	9921.28	1280.00	9921.59	1280.05	9922.13	1280.12	9923.02	1280.25	9924.42
GR	1280.5	9927.15	1281.27	9935.25	1282.84	9951.96	1282.61	9969.17	1282.58	9971.21
GR	1282.0	9973.05	1275.85	9990.94	1277.69	9994.60	1280.04	9999.24	1280.42	10000.00
GR	1280.7	10000.57	1282.01	10003.15	1282.35	10007.78	1282.43	10009.40	1282.64	10010.54
GR	1282.8	10010.87	1282.85	10011.13	1283.08	10011.83	1284.89	10020.64	1285.38	10023.01
GR	1285.6	10024.09	1285.75	10024.84	1285.85	10025.34	1285.91	10025.59	1286.78	10029.58
GR	1286.9	10030.95	1286.90	10034.34	1286.95	10042.23	1286.42	10045.39	1286.23	10046.00
NH	5	0.25	9408.37	0.02	9454.27	0.25	9954.47	0.024	10030.15	0.025
NH	10084									
ET		7.1	7.1	7.1	7.1		9000.07	10030.15		
X1	18.225	95	9954.47	10030.15	150.00	150.00	150.00			
GR	1288.0	9000.07	1287.98	9006.39	1288.03	9017.19	1288.11	9030.11	1288.04	9037.76
GR	1288.1	9052.73	1288.38	9078.66	1288.39	9079.84	1288.39	9080.52	1288.39	9080.96
GR	1288.1	9107.98	1288.07	9120.11	1288.06	9131.97	1287.69	9154.06	1288.22	9190.20
GR	1288.2	9195.28	1288.19	9200.89	1287.38	9251.83	1287.34	9263.34	1287.33	9274.81
GR	1287.9	9300.04	1287.80	9310.63	1286.92	9345.80	1286.69	9364.70	1286.65	9376.93
GR	1286.4	9391.07	1286.52	9402.68	1286.52	9404.91	1286.55	9408.37	1286.53	9420.02
GR	1286.5	9423.43	1286.45	9428.95	1286.38	9435.25	1286.35	9437.88	1286.14	9450.53
GR	1286.1	9454.27	1286.08	9458.26	1286.12	9466.59	1286.53	9529.55	1286.33	9549.81
GR	1287.1	9587.47	1287.08	9592.99	1286.89	9599.03	1287.02	9605.71	1286.00	9661.44
GR	1285.9	9683.38	1286.33	9702.85	1286.52	9716.75	1286.28	9735.19	1286.25	9748.69
GR	1286.3	9762.24	1286.21	9790.69	1286.16	9812.71	1285.72	9844.63	1285.67	9868.66
GR	1285.5	9874.98	1286.03	9886.28	1285.98	9890.78	1285.98	9891.08	1285.98	9891.45

GR	1286.0	9891.84	1285.97	9892.27	1285.24	9925.24	1285.25	9926.46	1285.27	9927.64
GR	1285.3	9933.12	1285.35	9934.89	1285.39	9937.32	1285.43	9939.93	1285.46	9944.56
GR	1285.5	9946.78	1285.52	9948.27	1285.56	9950.63	1285.63	9952.81	1285.62	9954.47
GR	1285.5	9954.82	1276.21	9976.39	1278.75	9982.93	1281.18	9989.07	1281.25	9993.99
GR	1281.5	9996.56	1281.70	10000.00	1282.15	10001.50	1282.63	10003.21	1283.69	10006.74
GR	1284.2	10010.77	1286.34	10026.91	1286.82	10030.15	1286.65	10041.33	1286.59	10044.42
GR	1286.3	10046.25	1286.17	10047.51	1284.67	10079.20	1284.71	10079.83	1286.97	10084.00
NH	5	0.25	9409.81	0.02	9451.06	0.25	9955.23	0.24	10029.72	0.025
NH	10098									
ET		7.1	7.1	7.1	7.1		9004.02	10029.72		
X1	18.253	86	9955.23	10029.72	150.00	150.00	150.00			
GR	1289.6	9004.02	1289.65	9041.01	1289.58	9047.55	1289.57	9065.23	1289.46	9108.99
GR	1289.3	9141.32	1289.08	9166.67	1289.03	9194.03	1288.50	9224.37	1288.43	9241.59
GR	1288.6	9267.26	1288.07	9336.77	1288.03	9340.19	1288.01	9341.87	1286.91	9399.56
GR	1286.6	9409.81	1286.72	9416.76	1286.90	9424.60	1287.03	9430.30	1286.92	9435.20
GR	1286.7	9441.37	1286.35	9451.06	1286.62	9484.31	1286.79	9504.21	1286.80	9519.40
GR	1286.9	9542.45	1287.04	9560.21	1286.92	9570.44	1286.88	9608.37	1286.82	9628.12
GR	1286.9	9642.71	1286.78	9672.93	1286.91	9685.80	1286.93	9743.47	1286.39	9787.15
GR	1286.7	9801.17	1286.83	9853.17	1286.67	9856.52	1286.67	9857.04	1286.66	9857.58
GR	1286.7	9858.16	1286.30	9895.68	1285.91	9932.80	1285.88	9934.70	1285.85	9936.40
GR	1285.8	9937.96	1285.79	9939.85	1285.71	9944.15	1285.66	9947.76	1285.57	9951.49
GR	1285.5	9955.23	1283.63	9959.42	1276.15	9975.94	1276.80	9977.56	1277.81	9980.13
GR	1278.5	9981.84	1278.88	9982.84	1279.16	9983.57	1279.43	9984.23	1279.59	9984.64
GR	1279.7	9985.03	1280.03	9985.72	1281.55	9989.47	1281.56	9990.12	1281.61	9992.37
GR	1281.7	10000.00	1283.72	10005.50	1283.97	10006.19	1284.21	10008.08	1284.69	10011.52
GR	1285.0	10013.99	1285.20	10015.87	1285.35	10017.10	1286.16	10022.42	1286.91	10029.72
GR	1286.7	10034.49	1286.61	10042.57	1286.54	10045.16	1286.37	10046.32	1286.15	10048.76
GR	1285.4	10064.35	1284.56	10081.26	1286.26	10083.76	1286.95	10084.87	1286.85	10090.13
GR	1286.7	10098.00								
NH	5	0.25	9410.34	0.02	9453.03	0.25	9957.82	0.25	10028.81	0.025
NH	10046									
ET		7.1	7.1	7.1	7.1		9023.61	10028.81		
X1	18.291	95	9957.82	10028.81	200.00	200.00	200.00			
GR	1290.0	9023.61	1290.04	9025.55	1290.03	9027.87	1290.05	9030.80	1290.01	9035.37
GR	1289.8	9131.93	1289.78	9133.18	1289.77	9134.59	1289.38	9138.11	1289.09	9183.06
GR	1289.0	9251.44	1289.03	9251.87	1289.03	9252.20	1289.02	9252.59	1289.02	9252.91
GR	1289.0	9272.89	1288.47	9321.21	1288.37	9340.04	1288.12	9354.28	1288.12	9354.87
GR	1288.1	9356.87	1287.60	9388.76	1287.43	9397.03	1286.68	9408.67	1286.58	9410.34
GR	1286.6	9410.60	1286.56	9410.87	1286.96	9431.34	1286.65	9451.46	1286.64	9451.87
GR	1286.7	9453.03	1287.01	9471.82	1286.91	9505.33	1286.67	9525.71	1286.67	9526.34
GR	1286.8	9540.92	1286.60	9570.77	1286.48	9588.10	1286.48	9589.71	1286.48	9591.22
GR	1286.9	9630.64	1286.85	9631.68	1286.85	9632.67	1286.85	9633.76	1286.84	9635.67
GR	1286.8	9642.06	1286.94	9667.46	1286.84	9672.37	1286.83	9677.30	1286.59	9724.00
GR	1286.5	9738.36	1286.48	9800.24	1286.44	9810.05	1286.57	9814.92	1286.71	9868.01
GR	1286.4	9880.72	1286.39	9882.21	1286.36	9884.22	1286.37	9886.36	1286.65	9899.47
GR	1285.5	9953.47	1285.37	9956.13	1284.74	9957.82	1276.35	9979.06	1276.48	9979.50
GR	1279.6	9986.80	1279.95	9987.51	1280.20	9988.11	1280.35	9988.47	1280.52	9988.88
GR	1281.9	9991.84	1281.99	9993.88	1282.31	10000.00	1282.39	10001.46	1282.78	10002.26
GR	1282.9	10002.60	1283.05	10003.27	1283.20	10003.74	1283.40	10004.36	1284.07	10005.99
GR	1284.2	10006.80	1284.26	10007.69	1284.59	10010.70	1284.76	10012.24	1284.89	10013.47
GR	1285.0	10014.17	1285.03	10014.68	1285.10	10015.26	1285.15	10015.71	1285.99	10022.69
GR	1286.9	10028.81	1286.72	10037.46	1286.65	10043.61	1286.49	10044.74	1286.03	10046.00

NH	5	0.25	9411.64	0.02	9457.73	0.25	9956.01	0.024	10029.95	0.025
NH	10089									
ET		7.1	7.1	7.1	7.1		9000.63	10029.95		
X1	18.337	85	9956.01	10029.95	245.00	245.00	245.00			
GR	1289.5	9000.63	1289.67	9026.09	1289.73	9057.71	1289.32	9083.76	1289.06	9112.63
GR	1289.2	9141.45	1289.03	9167.58	1288.45	9188.01	1288.62	9234.51	1288.72	9240.80
GR	1288.7	9256.80	1288.29	9277.42	1287.72	9314.49	1287.75	9357.72	1287.73	9369.94
GR	1287.5	9395.88	1287.13	9411.64	1287.34	9421.78	1287.39	9429.99	1287.29	9438.69
GR	1287.0	9453.14	1286.95	9457.73	1287.35	9528.60	1287.32	9533.87	1287.46	9545.20
GR	1287.5	9570.37	1287.36	9602.90	1287.33	9607.00	1287.16	9660.56	1287.19	9680.23
GR	1286.7	9718.26	1286.90	9753.46	1286.84	9765.73	1286.86	9773.12	1286.53	9800.51
GR	1286.4	9809.90	1286.47	9833.60	1286.53	9863.32	1286.20	9873.16	1286.91	9891.30
GR	1286.8	9899.95	1286.68	9915.94	1286.67	9918.23	1286.64	9921.27	1286.61	9925.49
GR	1286.6	9931.20	1286.50	9938.56	1286.39	9951.94	1286.36	9956.01	1283.36	9963.35
GR	1276.3	9980.65	1278.46	9985.00	1279.68	9987.46	1280.18	9988.47	1280.45	9989.01
GR	1280.8	9989.73	1280.96	9990.06	1281.11	9990.37	1281.26	9990.65	1281.49	9991.07
GR	1281.7	9991.65	1282.13	9992.28	1282.15	9992.93	1282.29	9999.63	1282.42	10000.00
GR	1283.2	10002.03	1283.38	10002.48	1283.68	10003.07	1284.20	10003.94	1284.23	10006.32
GR	1284.3	10007.23	1284.26	10007.71	1284.60	10011.47	1286.90	10029.95	1286.82	10031.47
GR	1286.8	10038.05	1286.35	10046.44	1285.59	10049.55	1285.71	10051.29	1285.61	10051.56
GR	1285.5	10055.75	1284.37	10083.41	1285.28	10084.36	1286.87	10085.95	1286.93	10089.00
NH	5	0.25	9413.65	0.02	9454.77	0.25	9957.73	0.024	10032.09	0.025
NH	10095									
ET		7.1	7.1	7.1	7.1		9000.48	10032.09		
X1	18.384	78	9957.73	10032.09	250.00	250.00	250.00			
GR	1289.0	9000.48	1289.43	9022.59	1289.95	9055.32	1289.50	9088.52	1288.70	9146.23
GR	1288.5	9161.75	1288.26	9169.95	1287.87	9183.27	1287.73	9190.07	1287.57	9197.91
GR	1287.6	9199.35	1287.51	9202.62	1287.38	9215.00	1288.17	9228.46	1288.39	9246.50
GR	1288.4	9308.23	1288.37	9346.79	1287.75	9386.44	1287.48	9396.62	1286.21	9411.79
GR	1286.1	9412.69	1286.16	9413.65	1286.70	9436.54	1286.55	9448.57	1286.42	9454.77
GR	1286.6	9465.99	1287.37	9491.33	1286.96	9516.77	1286.73	9546.00	1286.84	9586.77
GR	1286.7	9609.20	1287.06	9632.13	1287.02	9674.42	1286.75	9682.83	1286.82	9689.82
GR	1287.1	9706.84	1287.16	9747.49	1287.26	9784.28	1287.22	9805.19	1287.25	9820.90
GR	1286.9	9848.22	1286.27	9894.12	1286.33	9947.36	1286.31	9953.03	1286.30	9957.73
GR	1279.0	9974.57	1276.23	9981.07	1280.46	9989.51	1281.57	9991.72	1281.72	9992.02
GR	1282.0	9992.55	1282.24	9993.06	1282.32	9993.30	1282.34	9993.62	1282.42	10000.00
GR	1282.4	10001.64	1283.11	10004.91	1283.17	10005.28	1283.29	10005.85	1283.48	10006.73
GR	1283.7	10007.52	1284.28	10012.07	1284.91	10016.57	1285.14	10018.27	1285.28	10019.25
GR	1285.5	10020.54	1286.25	10026.79	1287.09	10032.09	1286.90	10036.86	1286.70	10040.36
GR	1286.4	10049.69	1285.69	10051.56	1285.41	10053.33	1284.07	10081.97	1283.95	10085.00
GR	1284.2	10085.35	1286.83	10087.45	1286.74	10095.00				
NH	7	0.25	9413.96	0.02	9454.51	0.25	9828.53	0.02	9859.57	0.25
NH	9956.9	0.024	10029.43	0.025	10097.91					
ET		7.1	7.1	7.1	7.1		9004.03	10029.43		
X1	18.428	91	9956.90	10029.43	230.0	230.0	230.0			
GR	1289.8	9004.03	1290.02	9052.12	1290.31	9082.30	1290.45	9104.62	1290.49	9144.95
GR	1290.3	9153.75	1290.19	9165.67	1289.61	9211.45	1289.45	9223.79	1289.55	9269.12
GR	1289.2	9297.03	1288.94	9326.82	1288.82	9345.52	1288.29	9384.49	1287.25	9412.11
GR	1287.2	9413.96	1287.23	9433.95	1287.23	9435.60	1287.24	9436.51	1287.23	9437.12
GR	1287.2	9438.25	1287.17	9454.51	1287.33	9466.22	1287.53	9480.12	1287.39	9499.85
GR	1287.3	9532.58	1286.84	9578.25	1286.65	9592.35	1286.76	9615.20	1286.93	9663.21

GR	1286.9	9669.07	1287.02	9683.59	1287.17	9730.56	1286.82	9773.07	1286.08	9801.57
GR	1285.3	9828.53	1285.56	9839.16	1285.73	9843.31	1285.63	9852.13	1285.50	9859.57
GR	1285.7	9864.84	1286.13	9872.62	1286.50	9882.93	1286.94	9926.10	1286.94	9928.41
GR	1286.9	9931.16	1286.92	9933.88	1286.92	9936.00	1286.93	9939.32	1286.92	9942.04
GR	1286.9	9952.58	1286.89	9956.90	1278.75	9977.89	1276.83	9982.87	1276.93	9983.10
GR	1278.7	9987.33	1279.38	9988.78	1279.86	9989.86	1280.23	9990.74	1282.51	9995.06
GR	1282.4	9997.39	1282.50	10000.00	1282.63	10002.90	1282.64	10004.27	1282.97	10005.45
GR	1283.1	10005.83	1283.22	10006.45	1283.51	10007.76	1283.96	10009.72	1284.22	10011.31
GR	1284.7	10014.14	1284.96	10015.59	1285.13	10016.51	1285.25	10017.15	1285.41	10018.03
GR	1285.5	10018.51	1285.59	10019.03	1285.69	10019.56	1285.77	10019.98	1285.83	10020.29
GR	1286.8	10026.54	1287.04	10029.43	1286.38	10047.40	1286.33	10050.62	1286.10	10051.31
GR	1285.1	10054.80	1284.04	10083.13	1283.95	10085.70	1284.34	10086.09	1286.78	10088.67
GR	1286.3	10097.91								
NH	7	0.25	9330.93	0.02	9378.24	0.25	9728.40	0.02	9745.37	0.25
NH	9959.3	0.024	10031.16	0.025	10172.58					
ET		7.1	7.1	7.1	7.1		9230.52	10050.08		
X1	18.487	59	9959.3	10031.16	310	310	310			
X3	10									
GR	1289.2	9230.52	1289.12	9249.53	1289.05	9267.59	1289.27	9297.50	1288.96	9312.67
GR	1288.5	9320.72	1288.05	9329.20	1287.95	9330.93	1287.94	9340.05	1288.02	9351.62
GR	1288.0	9367.10	1288.03	9371.75	1287.98	9378.24	1289.02	9462.66	1289.09	9497.48
GR	1289.1	9527.81	1288.28	9551.33	1288.22	9572.65	1288.36	9597.49	1288.36	9599.17
GR	1288.4	9614.52	1288.28	9626.10	1287.69	9728.40	1287.37	9745.37	1287.06	9806.73
GR	1286.5	9817.51	1286.29	9840.81	1286.45	9846.30	1286.33	9852.69	1286.10	9861.09
GR	1287.3	9907.45	1287.30	9914.45	1287.27	9917.96	1287.24	9921.45	1287.20	9927.16
GR	1287.1	9936.65	1286.92	9959.30	1285.04	9968.55	1276.72	9984.72	1276.72	9998.63
GR	1281.6	9999.20	1281.73	9999.73	1283.67	10004.76	1283.72	10006.59	1283.56	10009.29
GR	1283.9	10011.25	1284.64	10017.15	1285.94	10031.16	1286.57	10042.30	1287.17	10050.08
GR	1286.7	10052.13	1284.29	10076.74	1284.16	10088.66	1286.68	10094.89	1286.61	10105.82
GR	1284.6	10132.22	1285.71	10145.13	1286.02	10157.73	1286.17	10172.58		
NH	5	0.20	9416.13	0.02	9462.89	0.19	9954.37	0.024	10020.49	0.025
NH	10038									
ET		7.1	7.1	7.1	7.1		9101.78	10020.49		
SC	2.014	0.5	3.0	0	5.5	0	1100	1.1	1279.20	1276.72
X1	18.721	95	9954.37	10020.49	1260.00	1235.00	1235.00			
X2			2	1284.65	1287.96					
X3	10									
BT	-12	9030.60	1290.9		9208.44	1290.07		9250.17	1289.77	
BT		9300.84	1289.47		9401.26	1288.92		9499.86	1288.40	
BT		9581.78	1288.06		9627.12	1287.96		9662.94	1287.97	
BT		9939.75	1288.42		10003.90	1288.64		10078.80	1288.80	
GR	1288.8	9101.78	1288.81	9105.21	1289.01	9123.62	1289.23	9133.61	1289.23	9135.71
GR	1289.2	9136.81	1289.23	9137.56	1289.23	9138.17	1289.22	9138.91	1289.22	9139.93
GR	1289.2	9141.10	1289.38	9146.87	1289.38	9148.01	1289.38	9148.98	1289.38	9150.64
GR	1289.4	9151.21	1289.37	9152.10	1289.34	9153.66	1289.33	9154.75	1289.31	9156.25
GR	1289.4	9161.20	1289.38	9162.50	1289.37	9164.01	1289.49	9165.90	1289.48	9167.18
GR	1289.5	9168.39	1289.46	9169.80	1289.45	9171.13	1289.43	9172.52	1289.41	9175.26
GR	1289.4	9177.14	1289.38	9179.21	1289.53	9194.94	1289.52	9196.54	1289.51	9197.68
GR	1289.4	9209.70	1289.39	9214.63	1289.07	9306.76	1288.99	9311.94	1288.92	9315.78
GR	1288.9	9318.63	1288.80	9321.65	1288.78	9324.17	1288.75	9326.26	1288.72	9327.76
GR	1288.7	9328.99	1288.44	9337.64	1288.57	9369.29	1285.54	9380.33	1285.20	9381.52
GR	1287.6	9389.80	1287.50	9394.23	1287.43	9398.66	1287.39	9401.62	1287.33	9405.69

GR	1287.2	9416.13	1287.51	9446.94	1287.29	9457.28	1287.16	9462.89	1287.08	9486.09
GR	1287.1	9510.17	1286.55	9555.29	1286.66	9560.17	1286.48	9567.64	1286.24	9602.14
GR	1286.4	9610.18	1286.13	9618.40	1285.99	9652.84	1286.16	9660.17	1285.91	9664.41
GR	1285.8	9698.71	1286.06	9710.17	1285.76	9718.04	1285.66	9752.27	1285.85	9760.18
GR	1285.8	9792.10	1285.80	9810.16	1285.52	9817.29	1285.51	9851.58	1285.80	9860.17
GR	1285.5	9867.58	1285.19	9901.62	1285.31	9910.18	1285.33	9915.08	1285.34	9935.72
GR	1285.4	9942.22	1285.58	9946.06	1285.69	9954.37	1285.37	9961.01	1284.97	9967.11
GR	1279.2	9982.02	1279.20	9997.08	1284.76	10005.76	1287.13	10020.49	1287.11	10038.00
QT	2	23	23							
NH	5	0.20	9291.89	0.02	9339.00	0.19	9918.49	0.024	10023.52	0.025
NH	10039									
ET		7.1	7.1	7.1	7.1		9027.03	10023.52		
X1	18.766	95	9918.49	10023.52	245.0	235.0	235.0			
GR	1290.2	9027.03	1290.17	9029.89	1290.16	9030.57	1289.92	9033.90	1289.44	9040.46
GR	1288.8	9048.56	1289.02	9053.53	1289.13	9057.78	1289.21	9059.88	1289.27	9062.15
GR	1290.0	9148.76	1289.94	9150.17	1289.93	9151.96	1289.92	9154.23	1289.90	9158.49
GR	1289.4	9176.64	1289.00	9189.99	1288.78	9203.80	1288.68	9209.58	1288.79	9215.73
GR	1289.0	9237.82	1288.98	9239.37	1288.96	9240.95	1288.94	9241.67	1288.50	9246.37
GR	1288.2	9249.99	1287.88	9252.88	1288.40	9258.50	1288.84	9262.86	1288.90	9263.63
GR	1289.3	9268.38	1289.44	9271.07	1289.26	9272.90	1289.08	9274.79	1288.14	9285.26
GR	1288.2	9287.50	1287.98	9291.89	1288.27	9308.77	1288.38	9313.13	1288.46	9316.05
GR	1288.4	9320.97	1288.45	9339.00	1288.37	9353.10	1288.31	9366.02	1288.25	9377.76
GR	1287.7	9413.86	1287.28	9425.28	1287.32	9426.35	1287.43	9431.89	1287.57	9436.81
GR	1287.6	9439.15	1287.61	9440.76	1287.31	9467.84	1287.56	9492.65	1287.22	9529.86
GR	1286.2	9674.88	1286.27	9700.06	1286.34	9715.57	1286.20	9751.92	1286.19	9756.25
GR	1286.2	9772.05	1285.83	9801.45	1285.67	9820.20	1285.76	9829.04	1285.65	9855.28
GR	1285.6	9855.76	1285.64	9856.10	1285.64	9857.65	1285.57	9881.23	1285.42	9886.40
GR	1285.5	9893.76	1285.59	9905.70	1285.65	9912.40	1285.66	9915.26	1285.70	9918.49
GR	1284.9	9936.01	1284.81	9939.29	1284.94	9943.12	1285.33	9951.78	1284.76	9956.92
GR	1284.6	9960.49	1284.27	9966.25	1284.11	9972.52	1283.84	9982.15	1283.82	9988.24
GR	1283.7	9998.85	1283.98	10000.00	1286.52	10010.06	1286.74	10010.94	1286.75	10011.24
GR	1286.8	10013.28	1286.72	10015.11	1286.92	10016.29	1287.24	10023.52	1287.16	10039.00
NC	0.19	0.025	0.024							
ET		7.1	7.1	7.1	7.1		9226.71	10039.04		
X1	18.821	49	9919.78	10021.87	315.0	285.0	285.0			
GR	1288.3	9226.71	1288.45	9266.46	1288.02	9318.83	1288.06	9364.58	1288.03	9370.01
GR	1287.7	9416.47	1287.27	9462.98	1287.24	9466.60	1287.24	9471.07	1287.54	9516.47
GR	1287.5	9521.08	1287.18	9566.45	1286.83	9617.42	1286.59	9663.99	1286.58	9667.25
GR	1286.2	9712.85	1286.25	9716.47	1286.22	9721.10	1286.10	9811.85	1286.09	9816.46
GR	1286.1	9821.07	1285.86	9866.47	1285.85	9871.08	1285.83	9889.89	1285.81	9919.78
GR	1284.1	9985.07	1284.09	9986.54	1284.08	10000.41	1286.35	10010.39	1286.53	10011.22
GR	1286.6	10012.17	1286.70	10014.89	1286.99	10021.87	1287.02	10039.04	1285.64	10045.28
GR	1285.5	10046.63	1285.39	10078.28	1287.28	10083.35	1287.03	10093.22	1286.94	10096.47
GR	1286.1	10100.00	1283.75	10111.01	1283.74	10115.27	1283.42	10124.01	1283.36	10137.28
GR	1283.3	10149.55	1283.26	10154.66	1284.82	10161.42	1285.76	10169.91		
NH	7	0.20	9059.68	0.02	9105.06	0.20	9824.20	0.02	9857.88	0.20
NH	9918.0	0.024	10014.38	0.025	10175.89					
ET		7.1	7.1	7.1	7.1		9029.49	10041.32		

X1	18.861	71	9918.00	10014.38	225.0	215.0	215.0			
GR	1289.4	9029.49	1289.52	9031.58	1289.71	9036.06	1289.90	9040.50	1289.52	9049.64
GR	1289.5	9050.94	1289.44	9051.57	1289.32	9053.80	1289.11	9058.32	1289.09	9059.68
GR	1289.7	9078.34	1289.74	9081.86	1289.47	9087.90	1289.08	9095.46	1288.57	9105.06
GR	1289.0	9112.92	1289.41	9125.09	1289.29	9182.47	1288.64	9253.79	1288.52	9300.51
GR	1288.5	9304.45	1289.47	9352.83	1288.47	9353.72	1288.46	9355.12	1288.17	9403.44
GR	1288.2	9404.88	1288.09	9453.20	1288.08	9454.49	1287.89	9502.82	1287.88	9504.16
GR	1287.6	9552.68	1287.59	9553.70	1287.61	9555.44	1287.15	9603.79	1287.13	9604.39
GR	1287.1	9652.80	1287.08	9653.80	1287.10	9702.14	1287.10	9703.79	1286.86	9723.57
GR	1286.5	9757.04	1286.41	9780.39	1286.40	9812.40	1285.27	9824.20	1285.80	9840.33
GR	1285.9	9843.95	1285.74	9847.44	1285.18	9857.88	1286.00	9867.74	1285.85	9900.84
GR	1285.8	9918.00	1285.24	9981.55	1285.16	9982.23	1284.15	9986.65	1284.06	9999.68
GR	1284.0	10002.48	1286.50	10014.38	1286.57	10015.07	1286.64	10015.88	1286.72	10016.69
GR	1287.6	10041.32	1285.37	10070.40	1286.57	10080.97	1287.35	10082.68	1286.65	10095.98
GR	1283.3	10110.77	1283.39	10123.46	1283.50	10154.24	1283.65	10155.20	1285.13	10168.59
GR	1285.1	10175.89								
NH	5	0.20	9844.76	0.02	9859.16	0.20	9924.24	0.024	10022.16	0.025
NH	10175									
ET		7.1	7.1	7.1	7.1		8997.60	10022.16		
X1	18.908	64	9924.24	10022.16	245.0	245.0	245.0			
GR	1288.7	8992.01	1289.30	8997.60	1290.01	9041.24	1289.66	9076.67	1289.40	9091.22
GR	1289.6	9120.32	1289.54	9141.23	1289.41	9170.32	1289.44	9191.23	1289.15	9241.22
GR	1288.6	9276.68	1288.59	9291.23	1288.58	9305.78	1288.65	9341.23	1288.44	9376.67
GR	1288.2	9391.22	1288.30	9420.32	1288.32	9441.23	1288.14	9462.14	1287.83	9491.23
GR	1287.7	9526.67	1287.63	9541.22	1287.61	9570.32	1287.52	9591.23	1287.18	9641.23
GR	1287.3	9655.78	1287.41	9691.22	1287.22	9720.31	1287.21	9723.57	1287.14	9743.12
GR	1287.1	9748.72	1286.90	9751.90	1285.99	9844.76	1285.90	9847.77	1285.56	9857.54
GR	1285.5	9859.16	1285.87	9924.24	1285.38	9982.97	1284.82	9984.79	1284.35	9987.30
GR	1284.5	9992.78	1284.79	10003.96	1284.93	10004.60	1287.67	10020.93	1287.69	10021.13
GR	1287.7	10021.29	1287.77	10022.16	1287.76	10024.72	1285.50	10049.98	1285.47	10074.60
GR	1285.5	10080.05	1285.71	10080.70	1287.28	10083.03	1287.29	10083.57	1287.42	10096.05
GR	1284.3	10109.44	1283.95	10110.75	1283.94	10111.63	1283.75	10124.73	1283.68	10157.77
GR	1283.7	10158.97	1283.74	10160.82	1284.24	10165.39	1284.13	10175.00		
NH	5	0.20	9814.11	0.02	9864.18	0.20	9962.01	0.024	10020.15	0.025
NH	10149									
ET		7.1	7.1	7.1	7.1		9164.70	10020.15		
X1	18.965	70	9962.01	10020.15	300.00	300.00	300.00			
GR	1289.5	9164.70	1289.53	9190.91	1289.51	9194.08	1289.33	9240.92	1289.30	9244.09
GR	1288.7	9289.30	1288.82	9314.34	1288.97	9340.91	1288.86	9390.92	1288.61	9437.75
GR	1288.6	9440.91	1288.56	9444.07	1288.77	9490.92	1288.75	9494.09	1287.99	9540.93
GR	1287.9	9575.15	1287.85	9584.67	1287.83	9592.50	1287.70	9613.47	1287.49	9647.46
GR	1287.4	9660.14	1287.08	9735.59	1286.90	9757.38	1286.47	9811.07	1286.42	9812.28
GR	1286.3	9814.11	1285.33	9855.84	1285.20	9864.18	1285.94	9873.65	1286.54	9886.54
GR	1286.5	9922.29	1286.33	9962.01	1285.49	9988.06	1285.19	9989.37	1280.87	9996.13
GR	1280.2	9996.96	1280.52	9997.36	1285.60	10004.89	1286.17	10008.20	1286.29	10008.95
GR	1286.4	10009.83	1286.60	10010.70	1287.04	10013.31	1287.16	10014.09	1287.29	10014.84
GR	1288.1	10020.15	1287.60	10028.20	1287.73	10033.24	1287.90	10041.43	1287.93	10043.11
GR	1288.0	10044.51	1285.61	10064.55	1285.61	10081.62	1287.09	10084.95	1287.48	10085.65
GR	1287.4	10091.50	1287.47	10097.91	1286.98	10100.25	1284.38	10112.62	1283.71	10115.74
GR	1283.8	10123.94	1284.21	10130.27	1284.80	10139.01	1284.83	10140.23	1284.86	10141.48
GR	1284.8	10142.16	1284.77	10143.59	1284.74	10144.37	1284.66	10147.21	1284.70	10149.00

NH	9	0.20	9220.37	0.02	9279.82	0.20	9511.62	0.02	9578.07	0.20
NH	9832.5	0.02	9866.40	0.20	9941.35	0.024	10018.77	0.025	10098.78	
ET		7.1	7.1	7.1	7.1		9040.66	10018.77		
X1	18.999	83	9941.35	10018.77	190.00	180.00	180.00			
GR	1290.8	9040.66	1290.63	9054.38	1290.85	9096.96	1290.40	9128.59	1290.09	9153.25
GR	1290.0	9189.70	1289.82	9200.19	1289.75	9202.88	1289.62	9208.57	1289.35	9220.37
GR	1289.3	9234.14	1289.17	9248.21	1289.12	9252.95	1289.10	9255.52	1289.06	9261.96
GR	1288.9	9279.82	1288.99	9282.63	1289.43	9298.51	1289.21	9317.28	1289.17	9322.14
GR	1289.1	9347.45	1288.93	9378.43	1288.95	9388.29	1288.66	9397.40	1288.32	9451.31
GR	1288.1	9461.25	1287.78	9480.04	1288.16	9494.69	1287.34	9511.62	1287.42	9519.61
GR	1287.4	9541.43	1287.39	9547.85	1287.36	9551.10	1287.29	9560.30	1287.16	9578.07
GR	1287.2	9587.00	1287.61	9603.60	1287.64	9610.89	1287.52	9659.89	1287.20	9685.09
GR	1286.8	9716.18	1286.79	9722.18	1286.86	9733.79	1287.07	9759.30	1286.36	9795.72
GR	1286.1	9813.93	1285.69	9832.50	1285.58	9834.23	1285.56	9838.33	1285.49	9852.24
GR	1285.3	9861.59	1285.25	9866.40	1285.95	9873.09	1286.28	9885.07	1286.30	9921.07
GR	1286.1	9941.35	1285.37	9981.90	1285.26	9988.10	1285.50	9989.01	1283.36	9992.46
GR	1280.4	9997.85	1282.03	10000.00	1282.67	10000.83	1285.66	10004.90	1286.71	10009.81
GR	1286.9	10010.59	1287.75	10016.65	1287.88	10017.52	1287.96	10018.06	1287.99	10018.28
GR	1288.1	10018.77	1288.06	10019.02	1288.06	10019.56	1288.01	10039.23	1287.96	10046.11
GR	1286.4	10050.01	1285.56	10052.12	1285.56	10059.25	1285.61	10082.60	1287.54	10086.90
GR	1287.7	10087.44	1287.76	10091.10	1287.86	10098.78				

NH	9	0.20	9167.10	0.02	9209.60	0.20	9538.03	0.02	9608.45	0.20
NH	9817.9	0.02	9858.14	0.20	9990.52	0.024	10020.31	0.025	10098.28	
ET		7.1	7.1	7.1	7.1		9006.91	10020.31		
X1	19.088	83	9990.52	10020.31	230.0	230.0	230.0			
GR	1291.8	9006.91	1291.72	9075.67	1291.70	9082.75	1291.68	9087.82	1291.66	9094.82
GR	1291.6	9101.73	1291.62	9108.63	1291.60	9115.15	1291.57	9124.81	1291.57	9126.07
GR	1291.6	9127.23	1291.57	9128.88	1291.54	9129.88	1291.50	9131.41	1291.46	9132.57
GR	1290.2	9154.10	1289.30	9167.10	1289.45	9174.05	1289.77	9188.85	1289.62	9204.52
GR	1289.6	9209.60	1289.86	9222.93	1290.14	9235.64	1290.01	9247.77	1289.79	9257.10
GR	1289.6	9274.29	1289.51	9288.53	1289.32	9314.16	1289.13	9326.82	1288.86	9363.06
GR	1288.9	9387.80	1288.38	9416.37	1288.23	9441.06	1287.82	9483.13	1287.87	9502.00
GR	1287.4	9538.03	1287.37	9539.27	1287.41	9545.03	1287.55	9569.38	1287.56	9574.05
GR	1287.3	9600.11	1287.19	9608.45	1287.28	9618.57	1287.50	9638.85	1287.59	9647.61
GR	1287.6	9653.28	1287.40	9684.62	1287.23	9700.82	1287.16	9717.40	1287.07	9757.11
GR	1286.8	9795.92	1285.95	9817.90	1285.93	9821.50	1285.87	9822.49	1286.01	9835.66
GR	1286.0	9838.70	1285.81	9853.90	1285.74	9858.14	1286.28	9869.49	1286.29	9870.12
GR	1286.3	9870.93	1286.17	9906.67	1285.96	9979.77	1285.95	9981.42	1285.94	9981.85
GR	1285.9	9990.52	1282.61	9995.92	1281.27	9998.67	1281.92	10000.00	1283.83	10003.88
GR	1286.4	10007.94	1287.51	10015.99	1287.99	10020.31	1287.97	10022.46	1287.92	10032.96
GR	1287.8	10039.33	1287.66	10045.62	1285.32	10053.45	1285.61	10081.53	1287.96	10086.91
GR	1287.6	10093.15	1287.61	10093.80	1288.09	10098.28				

NH	4	0.03	9900.76	0.035	9975.85	0.024	10002.90	0.025	10211.59	
ET		7.1	7.1	7.1	7.1		9122.89	10002.90		
X1	19.151	86	9975.85	10002.90	325.0	330.0	330.0			
GR	1291.7	9122.89	1291.45	9209.02	1290.81	9248.63	1290.64	9261.06	1289.50	9293.00
GR	1289.3	9305.42	1289.29	9306.52	1289.28	9307.25	1289.27	9307.69	1289.27	9308.07
GR	1289.3	9308.47	1289.26	9308.90	1289.26	9309.30	1289.25	9313.11	1289.17	9319.67
GR	1290.0	9356.95	1289.96	9357.62	1289.94	9358.41	1289.92	9359.59	1289.87	9361.89
GR	1289.8	9363.06	1289.81	9364.60	1289.80	9366.03	1289.79	9367.37	1289.78	9368.42
GR	1289.8	9369.40	1288.46	9391.53	1288.46	9393.46	1288.44	9394.69	1288.40	9398.04

GR	1288.4	9400.26	1288.33	9401.83	1288.32	9403.18	1288.14	9417.19	1287.72	9467.99
GR	1287.7	9469.21	1287.52	9521.26	1287.43	9541.15	1287.20	9573.30	1287.21	9591.07
GR	1287.1	9625.33	1286.65	9677.36	1286.58	9687.39	1286.01	9729.41	1286.06	9760.50
GR	1286.2	9781.45	1286.16	9793.02	1286.19	9833.48	1286.17	9838.27	1286.19	9900.76
GR	1285.5	9943.95	1285.50	9947.78	1285.88	9974.95	1285.93	9975.85	1285.52	9976.56
GR	1281.6	9984.36	1283.64	9987.85	1283.81	9989.59	1286.73	9993.27	1288.00	10002.90
GR	1288.0	10007.46	1287.91	10020.61	1287.88	10032.29	1287.28	10033.76	1285.33	10039.13
GR	1285.6	10068.38	1285.61	10069.60	1287.94	10074.59	1287.87	10077.01	1287.87	10082.32
GR	1287.8	10085.99	1283.77	10103.49	1284.31	10112.43	1284.47	10117.68	1284.22	10132.02
GR	1284.1	10137.99	1284.08	10139.30	1284.06	10140.64	1284.05	10141.90	1283.93	10146.94
GR	1284.0	10153.47	1284.11	10159.55	1284.13	10162.26	1284.38	10166.32	1284.54	10175.25
GR	1285.0	10211.59								
NH	4	0.03	9729.36	0.14	9967.69	0.015	9999.03	0.025	10060.53	
ET		7.1	7.1	7.1	7.1		9284.54	9999.03		
X1	19.186	95	9967.69	9999.03	290.00	290.00	290.00			
X3	10									
GR	1289.9	9284.54	1289.74	9307.70	1289.69	9310.59	1289.66	9312.52	1289.58	9317.76
GR	1289.6	9321.89	1289.55	9324.79	1289.53	9328.41	1289.54	9332.10	1289.58	9335.75
GR	1289.6	9339.23	1289.63	9342.21	1289.59	9364.19	1289.60	9367.23	1289.58	9370.65
GR	1289.6	9373.99	1289.57	9377.47	1289.55	9380.32	1289.53	9383.17	1289.48	9385.79
GR	1289.0	9447.45	1288.88	9469.03	1288.83	9473.58	1288.77	9477.98	1288.73	9483.09
GR	1288.4	9506.61	1288.31	9509.89	1288.27	9513.55	1288.25	9516.94	1288.24	9519.68
GR	1288.4	9539.75	1288.39	9541.46	1288.37	9543.31	1288.78	9553.53	1288.75	9555.49
GR	1288.7	9557.53	1288.72	9565.99	1288.68	9567.55	1288.64	9569.55	1288.61	9571.96
GR	1288.6	9575.50	1287.98	9592.19	1287.94	9594.64	1287.87	9597.08	1287.82	9599.06
GR	1287.8	9601.26	1288.16	9608.08	1288.12	9610.03	1288.11	9611.85	1288.11	9613.56
GR	1288.1	9615.76	1288.08	9619.65	1288.10	9621.50	1288.09	9623.10	1288.06	9624.79
GR	1287.6	9641.21	1287.54	9643.43	1287.44	9647.60	1287.40	9650.08	1287.91	9656.16
GR	1287.9	9659.46	1287.88	9661.91	1287.90	9664.78	1287.91	9667.80	1287.92	9670.52
GR	1287.9	9712.11	1287.88	9714.73	1287.90	9716.67	1287.92	9718.80	1287.94	9720.87
GR	1288.0	9729.36	1287.53	9746.05	1287.54	9747.09	1287.56	9748.18	1287.66	9752.09
GR	1287.9	9757.29	1287.81	9758.96	1287.79	9759.64	1287.77	9760.19	1287.74	9761.22
GR	1287.2	9785.50	1287.19	9786.79	1287.18	9787.87	1286.89	9823.08	1286.68	9881.26
GR	1286.4	9939.36	1286.40	9952.02	1286.39	9967.69	1282.27	9969.61	1282.27	9978.37
GR	1288.1	9999.03	1288.11	10021.01	1285.40	10028.93	1285.61	10059.63	1286.14	10060.53

MAIN STREET CULVERT

NC	0.04	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9250.05	9997.83		
SC	1.010	0.5	3.0	0	2.5	0	260	1.1	1282.69	1282.27
X1	19.262	71	9915.22	9997.83	395.0	350.0	395.0			
X2			2	1285.19	1288.53					
X3	10									
BT	-3	9202.81	1291.1		9451.20	1290.02		10007.89	1288.53	
GR	1289.3	9250.05	1289.14	9263.59	1289.31	9277.32	1289.31	9278.88	1289.21	9285.81
GR	1289.1	9289.59	1289.07	9298.08	1288.90	9303.07	1288.68	9310.56	1288.54	9315.71
GR	1288.3	9318.33	1288.24	9319.31	1288.14	9320.52	1288.00	9322.41	1287.67	9330.71
GR	1288.4	9360.49	1288.53	9364.35	1288.55	9365.08	1288.56	9365.70	1288.58	9366.19
GR	1288.6	9366.64	1288.61	9367.41	1288.77	9369.57	1288.77	9373.15	1288.77	9377.20
GR	1288.2	9462.36	1288.22	9508.22	1288.18	9513.66	1287.64	9554.25	1287.73	9596.08
GR	1287.7	9616.29	1287.85	9624.00	1287.85	9642.88	1287.57	9665.33	1287.53	9667.59
GR	1288.1	9718.89	1287.84	9748.78	1287.31	9796.01	1287.24	9821.14	1287.18	9837.48
GR	1287.2	9868.59	1287.21	9876.11	1286.96	9915.22	1286.74	9929.28	1286.32	9958.54

GR	1286.3	9963.62	1282.69	9965.28	1285.86	9977.64	1286.23	9978.84	1286.52	9979.77
GR	1286.9	9980.99	1287.42	9982.90	1287.49	9990.59	1287.54	9991.38	1287.64	9992.75
GR	1287.7	9993.92	1287.79	9995.11	1287.86	9996.22	1287.95	9997.83	1287.72	10019.84
GR	1286.5	10023.11	1286.60	10038.42	1286.68	10055.01	1288.32	10058.41	1288.48	10058.90
GR	1288.5	10070.22	1288.47	10072.72	1285.37	10097.68	1284.95	10142.49	1285.14	10148.29
GR	1285.2	10153.23								
QT	2	260	430							
NC	0.15	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9073.21	10008.94		
X1	19.294	95	9914.00	10008.94	170.00	170.00	170.00			
GR	1290.8	9073.21	1290.71	9079.78	1290.63	9081.97	1289.6	9119.69	1289.60	9120.41
GR	1289.7	9124.82	1289.11	9140.22	1289.63	9149.42	1289.8	9230.69	1289.6	9244.39
GR	1289.6	9263.66	1289.67	9291.77	1289.14	9323.57	1289.1	9326.91	1288.4	9392.64
GR	1288.4	9395.37	1288.35	9399.89	1288.29	9402.92	1288.3	9409.38	1288.4	9506.86
GR	1287.4	9516.17	1286.91	9520.10	1287.22	9524.08	1287.3	9525.08	1287.3	9526.50
GR	1287.4	9528.90	1287.86	9533.82	1287.86	9535.93	1287.9	9537.80	1288.0	9570.96
GR	1288.0	9572.80	1288.03	9575.66	1288.03	9576.22	1288.1	9605.26	1288.1	9616.03
GR	1288.2	9617.67	1288.49	9648.39	1288.49	9649.00	1288.5	9649.62	1288.7	9659.77
GR	1288.8	9662.54	1288.84	9667.93	1288.86	9670.03	1288.8	9672.04	1288.8	9674.22
GR	1288.8	9679.35	1288.72	9684.90	1288.68	9687.09	1288.6	9689.20	1288.3	9712.65
GR	1288.3	9716.14	1288.27	9729.49	1288.25	9733.50	1288.3	9735.44	1288.2	9739.51
GR	1288.2	9740.08	1288.03	9753.52	1288.03	9754.57	1288.0	9755.00	1287.9	9771.23
GR	1287.5	9779.22	1286.91	9794.03	1287.18	9797.27	1287.4	9799.96	1288.1	9808.05
GR	1288.4	9811.68	1288.37	9819.56	1288.30	9833.58	1288.1	9870.29	1288.0	9884.84
GR	1287.9	9904.03	1287.88	9914.00	1285.55	9929.96	1283.7	9944.77	1283.2	9946.59
GR	1285.2	9957.63	1285.59	9959.37	1285.62	9959.86	1285.9	9968.26	1284.8	9971.38
GR	1283.6	9974.71	1283.17	9975.75	1284.79	9979.92	1284.9	9980.21	1285.0	9980.52
GR	1285.1	9980.89	1285.45	9982.01	1285.7	9982.89	1286.0	9983.80	1286.33	9984.65
GR	1286.8	9986.04	1287.18	9987.03	1287.3	9987.36	1287.6	10000.42	1288.70	10008.94
NC	0.14	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9007.08	10009.12		
X1	19.339	96	9920.75	10009.72	240.00	240.00	240.00			
GR	1290.8	9007.08	1290.70	9023.65	1290.01	9054.53	1289.54	9068.54	1289.27	9078.80
GR	1289.9	9086.18	1290.35	9091.62	1289.49	9099.85	1289.30	9102.01	1289.67	9107.42
GR	1289.7	9108.01	1289.71	9108.52	1290.00	9111.06	1290.03	9116.28	1289.79	9123.75
GR	1289.8	9164.12	1289.83	9165.83	1289.82	9168.03	1289.80	9170.30	1289.79	9172.80
GR	1289.2	9245.42	1289.19	9246.80	1289.17	9247.52	1289.04	9250.54	1288.85	9257.85
GR	1289.1	9300.87	1289.08	9301.39	1289.09	9301.86	1289.01	9305.12	1288.87	9309.59
GR	1289.2	9386.20	1289.20	9389.48	1288.52	9433.76	1288.53	9437.49	1288.47	9441.22
GR	1288.5	9441.91	1288.42	9444.32	1288.30	9450.71	1288.47	9453.29	1290.35	9477.71
GR	1290.1	9480.88	1289.71	9483.38	1288.07	9497.31	1288.23	9501.32	1288.26	9502.24
GR	1288.9	9561.32	1288.64	9580.25	1288.53	9582.13	1287.85	9587.77	1287.84	9591.70
GR	1287.1	9711.28	1286.91	9716.14	1286.98	9717.51	1287.04	9719.01	1287.84	9737.26
GR	1288.2	9786.70	1288.22	9788.05	1288.28	9795.09	1288.26	9796.20	1288.23	9797.46
GR	1288.2	9798.83	1288.21	9800.24	1288.19	9801.73	1288.18	9803.64	1288.15	9806.74
GR	1287.7	9848.10	1287.76	9848.97	1287.84	9851.44	1287.45	9855.85	1287.15	9859.33
GR	1286.9	9861.93	1287.73	9867.04	1288.41	9871.07	1288.26	9884.44	1288.19	9891.21
GR	1288.1	9920.75	1284.58	9937.87	1281.10	9945.49	1282.21	9951.12	1283.77	9956.35
GR	1286.0	9963.59	1286.03	9973.82	1283.90	9977.86	1282.95	9979.68	1285.33	9985.29
GR	1285.6	9985.87	1285.86	9986.48	1286.11	9987.05	1286.45	9987.89	1286.65	9988.32
GR	1287.2	9989.55	1287.30	10000.00	1287.30	10000.30	1287.34	10002.82	1287.43	10003.28
GR	1288.7	10009.72								

NC	0.15	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9010.35	10014.49		
X1	19.381	95	9927.80	10014.49	220.00	220.00	220.00			
GR	1290.8	9010.35	1290.89	9019.90	1290.99	9029.29	1291.00	9043.88	1290.39	9091.12
GR	1290.3	9123.60	1290.19	9138.11	1290.19	9152.00	1290.10	9153.09	1288.64	9169.22
GR	1289.8	9181.00	1289.84	9181.69	1289.90	9183.59	1289.53	9196.57	1289.52	9196.96
GR	1290.4	9255.83	1290.38	9256.92	1289.79	9312.93	1289.75	9315.84	1289.63	9322.01
GR	1289.5	9326.97	1289.46	9331.05	1289.36	9338.90	1290.08	9389.92	1290.16	9398.61
GR	1289.3	9444.51	1289.10	9457.28	1289.06	9465.06	1288.87	9468.42	1288.94	9478.87
GR	1289.0	9480.12	1289.28	9499.50	1289.31	9504.56	1289.25	9540.76	1289.21	9549.68
GR	1289.1	9591.26	1288.91	9598.96	1288.50	9605.99	1288.31	9611.22	1288.20	9619.54
GR	1288.3	9623.84	1288.32	9628.55	1288.33	9631.38	1288.33	9632.52	1288.33	9632.97
GR	1288.3	9638.42	1288.33	9640.03	1288.40	9660.26	1288.41	9667.53	1288.24	9674.34
GR	1288.7	9723.19	1288.78	9736.58	1288.73	9741.74	1288.71	9746.65	1288.57	9777.01
GR	1288.3	9825.18	1288.05	9831.74	1287.15	9850.61	1287.08	9852.99	1286.94	9855.42
GR	1286.9	9864.11	1286.83	9867.76	1287.06	9874.71	1287.44	9896.55	1287.68	9905.94
GR	1288.0	9913.36	1288.51	9918.87	1288.47	9927.80	1287.47	9932.71	1286.84	9935.69
GR	1286.7	9936.84	1282.84	9953.53	1284.10	9958.66	1285.96	9967.27	1285.73	9969.34
GR	1285.7	9972.84	1285.98	9976.56	1283.85	9981.29	1283.04	9983.32	1284.85	9992.20
GR	1285.0	9992.96	1285.20	9994.07	1285.68	9996.54	1286.04	9998.45	1286.35	10000.00
GR	1286.6	10001.44	1287.39	10005.37	1287.40	10006.81	1287.41	10007.94	1287.42	10008.59
GR	1287.4	10009.42	1288.00	10009.60	1288.06	10009.99	1288.15	10010.65	1288.53	10014.49
ET		7.1	7.1	7.1	7.1		9015.00	10028.76		
X1	19.430	95	9930.36	10018.19	260.00	260.00	260.00			
GR	1291.4	9015.00	1291.30	9018.72	1291.30	9020.42	1290.19	9030.59	1290.10	9031.45
GR	1290.2	9032.69	1291.13	9043.66	1291.07	9068.27	1291.07	9083.53	1290.94	9098.38
GR	1291.1	9119.30	1290.22	9133.07	1290.16	9134.40	1289.74	9139.73	1290.07	9150.94
GR	1289.9	9168.90	1289.95	9170.03	1289.91	9172.58	1289.92	9180.81	1289.93	9185.73
GR	1289.9	9188.20	1289.93	9188.92	1290.02	9192.79	1290.32	9219.49	1290.94	9244.70
GR	1290.8	9260.49	1290.13	9287.13	1289.85	9299.17	1289.76	9303.86	1289.71	9305.55
GR	1289.5	9317.80	1289.90	9330.11	1290.00	9332.28	1290.04	9334.59	1290.33	9342.77
GR	1290.9	9360.54	1290.83	9376.71	1290.67	9407.93	1290.60	9419.76	1290.27	9461.61
GR	1290.0	9471.90	1289.38	9501.63	1289.35	9505.51	1289.13	9507.64	1289.09	9509.39
GR	1288.8	9516.36	1288.56	9525.89	1288.39	9537.64	1288.39	9540.12	1288.37	9541.52
GR	1288.1	9573.48	1288.07	9575.74	1288.25	9589.94	1288.28	9606.46	1288.45	9635.20
GR	1288.8	9694.91	1288.66	9722.62	1288.54	9751.13	1288.19	9792.27	1288.05	9804.30
GR	1287.7	9815.20	1287.64	9830.21	1287.66	9830.99	1287.62	9838.36	1287.70	9848.70
GR	1287.7	9850.71	1287.65	9854.02	1287.65	9854.63	1287.32	9862.60	1287.14	9866.93
GR	1287.1	9867.55	1287.13	9867.95	1287.09	9878.56	1287.25	9889.12	1287.82	9910.73
GR	1288.2	9930.36	1285.16	9946.19	1283.14	9956.41	1282.67	9958.82	1283.35	9961.40
GR	1286.3	9972.13	1286.44	9979.97	1286.29	9980.28	1283.75	9985.90	1283.31	9986.94
GR	1284.0	9988.28	1287.90	9998.14	1287.92	10000.00	1287.92	10000.61	1288.05	10002.76
GR	1288.2	10013.35	1288.62	10018.19	1288.83	10024.59	1288.89	10028.76	1287.44	10033.29
ET		7.1	7.1	7.1	7.1		9011.24	10002.20		
X1	19.473	95	9934.65	10002.26	225.00	225.00	225.00			
GR	1291.3	9011.24	1291.13	9029.09	1290.80	9033.04	1290.24	9040.71	1290.46	9049.68
GR	1290.5	9052.10	1291.14	9101.94	1291.28	9112.22	1290.95	9138.28	1290.53	9171.09
GR	1290.4	9175.56	1289.91	9185.71	1290.29	9195.92	1290.54	9200.05	1291.23	9216.21
GR	1291.0	9240.92	1291.11	9254.13	1291.07	9259.82	1291.10	9264.97	1291.09	9300.78
GR	1291.0	9338.51	1289.49	9379.42	1289.21	9386.29	1289.20	9387.10	1289.15	9388.68
GR	1288.7	9406.60	1288.77	9409.55	1288.80	9410.11	1288.82	9410.51	1288.82	9411.17

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GR   1288.8   9412.28   1288.82   9413.66   1288.82   9416.23   1288.63   9430.83   1288.58   9432.15
GR   1288.5   9435.65   1288.49   9436.08   1288.48   9436.51   1288.45   9438.13   1288.72   9445.59
GR   1288.8   9449.17   1288.67   9454.60   1288.51   9460.34   1288.21   9474.19   1288.05   9482.28
GR   1287.9   9491.87   1288.12   9505.91   1288.42   9529.79   1288.82   9558.04   1289.02   9572.68
GR   1289.3   9595.70   1288.44   9648.49   1288.01   9683.45   1287.89   9693.42   1287.94   9709.31
GR   1287.9   9715.07   1288.08   9723.74   1288.21   9732.58   1288.42   9759.08   1288.70   9829.37
GR   1288.7   9832.09   1288.66   9833.67   1288.65   9834.91   1288.63   9836.29   1288.21   9861.93
GR   1287.9   9864.95   1287.26   9870.96   1287.37   9880.72   1287.37   9882.65   1287.58   9894.75
GR   1287.8   9916.42   1288.14   9934.65   1286.96   9940.79   1286.15   9944.27   1284.13   9953.57
GR   1282.5   9960.76   1286.52   9975.29   1286.76   9976.14   1286.77   9977.08   1286.88   9984.50
GR   1284.3   9990.67   1283.88   9991.71   1284.18   9992.23   1288.35   10000.00  1289.56   10002.26
GR   1289.7   10008.22  1289.66   10013.00  1289.56   10016.73  1289.57   10026.00  1286.62   10042.09
GR   1286.5   10042.94  1289.03   10053.60  1289.15   10085.41  1289.15   10088.89  1289.15   10090.79
  VAL VISTA ROAD

NC     0.02      0.02      0.02
ET               7.1       7.1       7.1       7.1               9062.40   10060.58
X1   19.502        21   9682.41   9882.11    390.00    100.00    135.00
GR   1289.4   9062.40   1289.29   9080.33   1289.07   9155.64   1289.03   9178.52   1288.82   9238.98
GR   1288.7   9272.19   1288.28   9332.92   1288.09   9383.27   1288.15   9429.70   1287.99   9470.55
GR   1287.8   9539.47   1287.71   9573.28   1287.62   9647.64   1287.54   9682.41   1287.27   9753.94
GR   1287.3   9786.43   1288.15   9882.11   1288.71   9938.84   1288.81   9956.63   1288.94   10000.00
GR   1289.1   10060.58

NH       5      0.15   9488.02      0.02   9645.84      0.04   9857.81     0.035  10019.43      0.25
NH   10054
ET               7.1       7.1       7.1       7.1               9036.90   10033.49
X1   19.623        95   9857.81  10019.43    450.00    690.00    635.00
GR   1290.8   9036.90   1290.70   9038.64   1290.73   9041.55   1290.80   9048.90   1290.83   9050.47
GR   1290.8   9053.13   1290.65   9062.21   1290.82   9071.05   1291.81   9120.29   1291.42   9130.29
GR   1289.6   9174.96   1289.65   9183.27   1289.65   9185.74   1289.66   9189.82   1289.79   9198.16
GR   1290.3   9220.75   1290.54   9241.65   1290.50   9247.98   1290.27   9252.54   1289.23   9271.17
GR   1288.4   9304.96   1288.89   9307.57   1289.89   9320.84   1285.25   9348.04   1283.94   9356.39
GR   1283.9   9358.23   1285.76   9366.02   1290.06   9391.65   1289.86   9401.27   1289.32   9451.46
GR   1288.9   9488.02   1288.76   9502.51   1288.79   9516.69   1288.77   9520.75   1288.69   9535.12
GR   1288.7   9539.64   1289.00   9547.70   1288.54   9566.45   1288.65   9576.33   1288.43   9579.54
GR   1288.9   9606.62   1288.74   9637.60   1288.65   9645.84   1288.70   9648.87   1288.73   9656.75
GR   1288.5   9681.09   1288.22   9696.94   1287.88   9722.21   1287.88   9775.79   1287.89   9781.93
GR   1287.9   9783.42   1287.90   9785.88   1288.07   9825.34   1288.08   9827.11   1288.09   9829.05
GR   1288.1   9831.33   1288.12   9833.20   1288.13   9834.92   1288.15   9837.08   1288.14   9839.53
GR   1288.2   9841.91   1288.16   9845.65   1288.15   9847.68   1288.16   9850.17   1288.18   9853.83
GR   1288.2   9857.81   1288.17   9858.49   1287.99   9861.41   1286.40   9894.38   1286.29   9896.49
GR   1286.3   9897.11   1286.23   9897.54   1286.22   9897.80   1286.20   9898.29   1286.18   9898.64
GR   1286.3   9933.14   1286.07   9951.50   1286.30   9960.47   1287.31   9982.19   1286.43   9985.90
GR   1286.1   9987.56   1286.21   9988.03   1286.98   9991.44   1286.53   9996.99   1286.35   9999.01
GR   1286.4   10000.00  1286.74   10006.76  1286.99   10011.63  1287.11   10012.27  1288.62   10019.43
GR   1288.7   10024.03  1288.78   10031.76  1287.98   10033.49  1286.91   10036.03  1286.80   10054.00

NH       6      0.15   9414.17      0.02   9492.53      0.04   9677.79      0.04   9864.02      0.03
NH   10021     0.025  10035.57
ET               7.1       7.1       7.1       7.1               9002.38   10021.00
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X1	19.670	95	9864.02	10021.00	250.00	250.00	250.00			
GR	1291.6	9002.38	1291.60	9017.52	1291.57	9019.06	1291.56	9019.35	1291.56	9019.67
GR	1291.6	9019.98	1291.55	9020.53	1291.54	9020.97	1291.29	9036.72	1291.31	9038.20
GR	1291.5	9049.15	1291.54	9050.52	1291.53	9051.17	1291.45	9053.27	1291.46	9054.59
GR	1291.4	9057.63	1291.75	9070.76	1292.05	9102.48	1291.01	9137.75	1290.30	9158.32
GR	1290.0	9167.58	1289.92	9169.26	1290.09	9174.56	1290.36	9182.37	1290.52	9193.65
GR	1291.4	9240.69	1290.68	9261.22	1289.39	9294.09	1289.40	9295.67	1289.46	9306.33
GR	1289.6	9315.54	1289.68	9317.86	1290.17	9337.37	1290.95	9356.69	1290.28	9397.70
GR	1290.2	9406.89	1289.87	9409.14	1289.20	9414.17	1289.65	9445.24	1289.71	9448.75
GR	1289.7	9452.63	1289.70	9492.53	1289.28	9555.77	1288.68	9561.95	1289.29	9571.21
GR	1289.8	9595.89	1289.78	9619.64	1289.76	9625.63	1289.69	9629.84	1289.41	9642.92
GR	1288.4	9677.79	1287.92	9687.57	1287.87	9689.14	1287.83	9690.57	1287.03	9705.63
GR	1287.0	9706.05	1287.03	9706.42	1287.03	9708.00	1287.03	9709.17	1287.03	9709.38
GR	1287.0	9710.01	1287.03	9710.26	1287.04	9712.28	1287.09	9746.80	1286.83	9795.09
GR	1286.8	9805.35	1286.72	9811.94	1286.63	9843.78	1286.57	9864.02	1286.56	9880.34
GR	1286.8	9935.98	1286.97	9939.24	1286.97	9939.50	1286.85	9941.29	1287.30	9945.29
GR	1289.5	9963.70	1288.11	9975.84	1287.35	9983.02	1286.62	9986.36	1285.94	9989.13
GR	1286.9	9994.40	1286.93	9994.63	1286.93	9995.04	1286.92	10000.00	1286.92	10001.22
GR	1286.9	10001.81	1286.85	10002.85	1286.60	10006.73	1286.29	10012.57	1287.40	10017.11
GR	1288.6	10021.00	1288.56	10022.57	1288.52	10031.39	1288.31	10031.88	1286.88	10035.57
NH	6	0.02	9149.44	0.15	9291.92	0.02	9366.76	0.08	9860.09	0.03
NH	10022	0.025	10094.6							
ET		7.1	7.1	7.1	7.1		9000.80	10034.05		
X1	19.716	89	9860.09	10022.00	240.00	245.00	245.00			
GR	1292.0	9000.80	1292.07	9026.37	1292.06	9055.91	1291.58	9094.97	1290.94	9147.40
GR	1291.0	9149.44	1290.97	9154.29	1291.15	9209.67	1291.42	9224.08	1291.37	9226.95
GR	1291.3	9236.36	1291.09	9253.98	1291.38	9271.01	1291.34	9276.99	1291.33	9280.15
GR	1291.3	9285.29	1291.16	9286.06	1290.57	9291.92	1290.75	9325.11	1290.76	9326.36
GR	1290.7	9329.17	1290.17	9366.76	1290.73	9385.04	1290.81	9387.94	1290.75	9389.58
GR	1290.8	9390.84	1290.81	9393.92	1291.22	9443.01	1291.24	9451.05	1291.24	9469.63
GR	1291.2	9492.73	1291.26	9500.50	1291.17	9530.86	1290.80	9556.88	1290.72	9589.42
GR	1290.7	9613.17	1290.82	9683.49	1290.60	9696.43	1290.68	9704.34	1290.72	9726.45
GR	1291.1	9767.42	1291.07	9771.84	1291.04	9772.74	1290.38	9782.73	1290.00	9799.01
GR	1289.5	9825.84	1289.13	9842.82	1288.99	9852.22	1289.06	9860.09	1288.61	9872.62
GR	1288.6	9873.43	1288.59	9874.30	1288.57	9875.30	1288.55	9876.94	1288.53	9877.86
GR	1288.5	9878.90	1288.50	9879.84	1288.49	9880.75	1288.48	9881.78	1288.06	9888.48
GR	1288.1	9889.57	1288.05	9890.65	1287.42	9944.21	1287.25	9947.73	1287.29	9952.13
GR	1287.5	9981.40	1286.06	9985.84	1285.64	9987.15	1285.95	9987.89	1287.14	9990.60
GR	1287.0	9994.97	1286.75	10000.00	1286.72	10000.59	1286.62	10008.30	1286.57	10010.86
GR	1288.1	10019.54	1288.49	10022.0	1288.50	10024.17	1288.52	10031.59	1287.52	10034.05
GR	1287.2	10034.53	1286.51	10063.96	1286.50	10065.84	1286.71	10066.10	1288.96	10068.74
GR	1288.7	10076.43	1288.55	10078.64	1287.22	10087.13	1286.05	10094.60		
NH	6	0.15	9222.59	0.02	9290.15	0.03	9384.69	0.15	9919.86	0.03
NH	10018	0.025	10098.55							
ET		7.1	7.1	7.1	7.1		9020.39	10030.99		
X1	19.764	81	9919.86	10018.00	225.00	260.00	260.00			
GR	1291.4	9020.39	1291.33	9031.41	1291.14	9054.63	1291.09	9090.34	1291.05	9105.63
GR	1290.9	9145.23	1291.24	9167.29	1291.11	9172.99	1291.05	9178.27	1290.44	9220.53
GR	1290.5	9222.15	1290.40	9222.59	1290.48	9227.40	1290.95	9254.46	1290.35	9283.45
GR	1290.2	9288.63	1290.19	9290.15	1290.28	9292.06	1291.08	9310.14	1288.69	9323.11
GR	1288.5	9324.79	1288.39	9327.89	1288.14	9340.25	1288.10	9341.38	1288.09	9343.86
GR	1288.1	9356.45	1289.39	9362.53	1290.29	9366.43	1290.70	9370.89	1290.54	9384.69

GR	1290.3	9411.62	1290.46	9448.38	1290.41	9463.44	1291.11	9496.45	1291.43	9515.10
GR	1291.4	9521.24	1291.49	9532.11	1290.98	9592.86	1290.85	9610.43	1290.97	9637.49
GR	1290.7	9658.30	1291.15	9699.52	1291.13	9721.84	1291.13	9748.06	1291.09	9762.31
GR	1291.1	9767.77	1290.85	9773.78	1289.53	9794.91	1287.21	9819.04	1287.56	9859.92
GR	1287.5	9869.66	1287.25	9908.47	1287.18	9918.22	1287.18	9919.86	1287.19	9922.52
GR	1287.4	9969.73	1287.41	9974.96	1287.34	9986.15	1286.72	9989.29	1286.33	9991.13
GR	1286.5	9992.46	1286.99	9996.72	1286.66	9997.86	1286.53	9999.18	1286.58	10000.00
GR	1286.6	10000.55	1287.33	10008.81	1287.90	10015.61	1288.22	10018.00	1288.40	10023.39
GR	1288.7	10030.99	1288.26	10031.61	1286.91	10034.74	1286.68	10065.18	1286.61	10069.48
GR	1287.0	10070.22	1288.78	10073.53	1288.86	10081.11	1288.81	10084.45	1288.18	10091.03
GR	1287.3	10098.55								

UNIVERSITY DRIVE

QT	2	1	1							
NC	0.02	0.02	0.02							
ET		7.1	7.1	7.1	7.1		9023.61	10100.02		
X1	19.808	47	9707.46	9907.64	190.00	230.00	230.00			
GR	1291.3	9023.61	1291.21	9031.58	1291.29	9037.52	1291.04	9094.86	1291.00	9096.69
GR	1291.0	9097.71	1291.00	9098.53	1290.99	9099.26	1290.99	9099.80	1290.99	9100.60
GR	1291.0	9101.20	1291.00	9122.31	1291.08	9133.15	1291.14	9147.67	1291.27	9148.92
GR	1291.0	9161.26	1291.00	9162.97	1290.49	9195.96	1290.48	9196.20	1290.48	9196.50
GR	1290.5	9196.92	1290.44	9222.70	1290.44	9223.00	1290.55	9256.71	1290.53	9259.12
GR	1290.2	9318.02	1290.17	9320.21	1290.15	9323.08	1289.76	9401.83	1289.76	9404.48
GR	1289.4	9499.41	1289.39	9503.22	1289.39	9506.67	1288.85	9612.80	1288.84	9614.34
GR	1288.9	9705.79	1288.94	9707.46	1288.70	9808.63	1288.71	9811.14	1289.03	9907.64
GR	1289.3	9990.08	1289.27	9990.59	1289.27	10000.00	1289.26	10014.73	1289.26	10054.22
GR	1289.3	10093.05	1289.46	10100.02						

NH	6	0.25	9436.25	0.02	9506.49	0.25	9774.38	0.03	9872.83	0.03
NH	10008	0.025	10088.94							
ET		7.1	7.1	7.1	7.1		9008.85	10008.39		
X1	19.830	71	9872.83	10008.00	145.0	95.0	115.0			
GR	1291.8	9008.85	1291.66	9049.09	1292.08	9082.58	1292.06	9126.01	1291.95	9150.81
GR	1291.8	9193.84	1291.80	9198.44	1291.76	9201.02	1291.73	9210.58	1291.61	9246.80
GR	1291.5	9281.40	1291.26	9313.25	1291.19	9325.87	1290.93	9357.38	1290.84	9364.18
GR	1290.8	9367.15	1290.75	9372.05	1290.22	9392.33	1290.12	9411.30	1289.98	9414.39
GR	1289.1	9436.25	1289.07	9440.15	1289.33	9470.31	1289.31	9472.12	1289.07	9506.49
GR	1289.5	9519.74	1290.29	9538.15	1289.96	9582.37	1290.17	9596.33	1290.14	9602.34
GR	1290.3	9606.86	1290.32	9625.02	1290.13	9672.78	1289.91	9689.45	1290.24	9716.53
GR	1290.2	9717.43	1289.84	9742.00	1289.83	9753.41	1289.83	9757.71	1288.03	9771.20
GR	1288.5	9774.38	1289.11	9777.00	1289.14	9782.90	1289.13	9793.12	1289.05	9824.50
GR	1289.2	9845.47	1289.43	9863.46	1289.43	9872.83	1288.96	9878.21	1289.01	9903.47
GR	1289.0	9934.29	1288.99	9940.56	1288.47	9952.34	1287.76	9966.55	1286.88	9983.16
GR	1288.3	9989.98	1288.97	10000.00	1289.36	10005.43	1289.38	10008.00	1289.35	10013.87
GR	1289.3	10021.61	1288.06	10026.25	1287.17	10029.73	1287.19	10048.52	1287.22	10065.99
GR	1288.9	10069.61	1288.95	10069.84	1289.07	10078.97	1289.13	10082.79	1287.20	10088.62
GR	1287.2	10088.94								

NH	5	0.25	9809.43	0.02	9844.28	0.03	9959.58	0.035	10017.24	0.025
NH	10147									
ET		7.1	7.1	7.1	7.1		9254.10	10017.24		

X1	19.871	57	9959.58	10017.24	220.0	215.0	215.0			
GR	1290.9	9254.10	1290.78	9280.37	1290.70	9288.43	1290.41	9329.92	1290.28	9348.26
GR	1290.1	9382.73	1290.30	9429.70	1289.92	9483.62	1291.00	9531.16	1291.01	9571.47
GR	1290.9	9582.48	1290.83	9622.49	1290.76	9642.36	1290.63	9649.09	1289.96	9688.37
GR	1289.0	9768.92	1288.56	9775.90	1288.19	9796.60	1288.04	9809.43	1288.03	9814.54
GR	1288.0	9817.59	1288.09	9834.06	1288.14	9837.14	1288.30	9844.28	1285.47	9876.26
GR	1285.9	9906.25	1286.07	9917.98	1286.47	9922.38	1287.77	9934.83	1287.82	9937.43
GR	1287.8	9941.24	1287.71	9956.09	1287.66	9959.58	1287.19	9976.00	1286.46	9997.72
GR	1286.2	10005.31	1288.26	10017.24	1288.45	10018.10	1288.48	10024.23	1288.47	10024.62
GR	1287.2	10044.57	1288.79	10067.00	1288.07	10079.20	1287.46	10082.36	1286.72	10085.09
GR	1287.0	10087.23	1286.20	10091.88	1286.18	10095.23	1285.50	10101.08	1285.67	10102.62
GR	1286.1	10119.36	1285.81	10124.69	1286.23	10132.21	1286.11	10135.98	1286.53	10140.72
GR	1286.7	10143.87	1286.83	10147.00						
NH	7	0.25	9362.84	0.02	9451.62	0.25	9683.87	0.02	9891.09	0.25
NH	9958.1	0.035	10015.61	0.025	10153.63					
ET		7.1	7.1	7.1	7.1		9117.84	10025.67		
X1	19.924	72	9958.10	10015.61	280.0	280.0	280.0			
GR	1290.6	9117.84	1290.53	9150.68	1290.59	9156.70	1290.43	9172.06	1290.27	9190.50
GR	1290.5	9211.71	1290.23	9251.04	1290.19	9266.15	1290.30	9295.08	1290.23	9299.20
GR	1289.3	9313.07	1289.37	9315.75	1289.42	9327.64	1289.27	9345.61	1289.43	9350.63
GR	1290.1	9362.84	1289.89	9374.57	1290.28	9396.68	1290.29	9411.88	1289.97	9433.98
GR	1290.1	9451.62	1290.47	9461.68	1290.27	9481.78	1290.29	9499.61	1290.62	9511.90
GR	1290.3	9530.34	1290.30	9539.82	1290.29	9547.54	1290.28	9562.23	1290.00	9612.21
GR	1289.6	9663.95	1289.34	9683.87	1289.04	9739.95	1289.49	9793.34	1289.57	9804.89
GR	1289.6	9809.59	1289.96	9839.17	1289.98	9842.19	1290.01	9843.53	1290.04	9845.08
GR	1290.0	9868.00	1289.68	9883.25	1289.61	9884.89	1289.32	9891.09	1290.11	9922.36
GR	1290.0	9932.79	1289.17	9939.41	1288.66	9942.81	1287.84	9958.10	1287.59	9967.21
GR	1287.3	9981.43	1285.78	10006.26	1286.34	10008.52	1288.32	10015.61	1288.46	10022.10
GR	1288.5	10024.56	1287.94	10025.67	1287.40	10027.62	1287.16	10062.39	1287.16	10062.85
GR	1288.4	10077.56	1286.64	10082.67	1284.84	10087.62	1285.00	10088.30	1286.49	10091.80
GR	1286.0	10095.15	1285.11	10098.97	1285.30	10102.45	1286.83	10150.41	1287.00	10151.41
GR	1287.1	10153.18	1287.13	10153.63						
NH	7	0.25	9518.58	0.02	9550.44	0.25	9696.74	0.02	9782.08	0.25
NH	9929.3	0.03	10011.97	0.025	10157.63					
ET		7.1	7.1	7.1	7.1		9086.96	10020.70		
X1	19.971	69	9929.30	10011.97	245.0	245.0	245.0			
GR	1289.6	9086.96	1290.20	9111.65	1290.25	9120.46	1289.87	9160.60	1290.43	9185.59
GR	1290.4	9195.35	1289.98	9249.93	1290.07	9254.60	1289.92	9327.67	1289.89	9334.22
GR	1289.9	9340.71	1289.73	9404.76	1289.68	9411.86	1289.69	9463.50	1289.54	9497.75
GR	1288.8	9511.87	1287.83	9518.58	1287.91	9521.73	1288.06	9532.66	1287.50	9544.69
GR	1287.3	9550.44	1288.11	9558.21	1288.32	9564.70	1290.04	9599.49	1289.90	9631.60
GR	1289.3	9663.46	1288.28	9696.74	1288.55	9763.20	1288.43	9779.30	1288.41	9782.08
GR	1288.6	9789.90	1289.33	9832.93	1288.89	9854.18	1288.91	9861.88	1289.11	9878.80
GR	1289.2	9884.12	1289.26	9888.26	1289.36	9892.51	1289.45	9894.62	1289.83	9918.15
GR	1290.2	9929.30	1288.69	9941.65	1288.67	9961.70	1288.60	9968.17	1288.50	9970.46
GR	1287.8	9983.03	1286.43	10002.42	1287.15	10005.09	1288.67	10011.97	1288.65	10018.25
GR	1288.7	10020.70	1288.05	10022.45	1287.54	10023.79	1287.34	10045.55	1287.21	10058.15
GR	1288.3	10059.95	1288.72	10060.60	1288.43	10067.51	1288.25	10072.57	1287.85	10074.21
GR	1285.8	10084.50	1285.42	10087.75	1285.40	10099.52	1286.32	10136.06	1286.56	10137.50
GR	1286.7	10140.08	1286.73	10141.64	1286.91	10142.18	1287.09	10157.63		

NH	5	0.25	9401.79	0.02	9434.33	0.25	9924.76	0.03	10007.98	0.025
NH	10163									
ET		7.1	7.1	7.1	7.1		8969.58	10007.98		
X1	20.015	62	9924.76	10007.98	250.0	230.0	230.0			
GR	1292.0	8969.58	1292.01	8993.84	1291.87	9042.19	1291.87	9043.10	1291.81	9051.96
GR	1291.4	9088.27	1290.70	9152.08	1289.84	9238.53	1289.74	9292.96	1289.74	9294.50
GR	1289.9	9344.19	1289.87	9345.24	1289.50	9378.41	1289.36	9379.74	1287.21	9401.79
GR	1287.4	9410.55	1287.55	9417.93	1287.17	9434.33	1289.44	9454.42	1289.90	9491.98
GR	1289.9	9492.62	1289.99	9512.46	1290.05	9542.10	1290.05	9543.82	1290.04	9588.79
GR	1290.0	9592.01	1289.84	9638.80	1289.85	9642.04	1289.74	9688.92	1289.74	9691.51
GR	1289.9	9738.66	1289.90	9740.45	1289.90	9741.70	1289.89	9742.48	1289.87	9743.59
GR	1289.8	9744.84	1289.67	9785.32	1287.81	9799.48	1289.99	9818.19	1289.63	9862.51
GR	1289.7	9887.83	1289.45	9918.74	1289.43	9922.92	1289.21	9924.76	1287.84	9980.42
GR	1288.5	10006.89	1288.61	10007.56	1288.61	10007.98	1287.91	10018.10	1287.53	10019.45
GR	1287.4	10031.33	1287.27	10053.41	1288.58	10055.72	1288.48	10063.83	1288.21	10068.37
GR	1285.6	10082.41	1285.50	10084.82	1285.85	10122.98	1286.16	10124.83	1286.39	10130.15
GR	1286.6	10130.85	1286.97	10163.00						

NH	4	0.06	9458.99	0.03	9907.29	0.03	10003.43	0.025	10098.67	
ET		7.1	7.1	7.1	7.1		9002.74	10012.44		
X1	20.051	94	9907.29	10003.43	170.00	185.00	185.00			
GR	1291.9	9002.74	1291.70	9034.40	1291.68	9038.90	1291.52	9072.65	1291.39	9089.43
GR	1291.2	9109.97	1291.11	9145.27	1291.09	9147.43	1291.07	9151.25	1290.81	9201.09
GR	1290.6	9250.21	1290.55	9256.91	1290.53	9263.72	1290.59	9310.93	1290.57	9331.35
GR	1290.4	9367.24	1290.22	9401.41	1290.23	9416.72	1290.01	9430.98	1289.72	9454.10
GR	1289.7	9454.98	1289.40	9458.99	1289.31	9467.41	1288.67	9481.19	1287.82	9494.46
GR	1288.3	9500.75	1287.98	9507.52	1287.68	9516.71	1288.01	9526.13	1288.28	9534.23
GR	1288.2	9539.42	1288.01	9551.98	1287.42	9564.59	1285.33	9584.16	1284.93	9587.79
GR	1284.9	9589.51	1284.21	9619.45	1284.08	9623.39	1285.14	9636.84	1285.89	9647.17
GR	1286.2	9651.92	1286.40	9656.42	1286.94	9666.70	1287.02	9668.63	1287.10	9673.64
GR	1287.4	9685.22	1287.36	9687.35	1287.55	9695.55	1287.46	9697.72	1286.79	9713.38
GR	1286.4	9718.29	1285.68	9727.10	1284.71	9744.74	1285.43	9757.34	1285.50	9760.76
GR	1285.8	9775.12	1285.96	9785.62	1285.91	9790.81	1285.70	9802.52	1285.08	9815.81
GR	1285.2	9819.28	1285.38	9821.78	1286.42	9842.04	1288.28	9874.37	1288.38	9878.09
GR	1288.8	9882.97	1289.61	9896.10	1290.07	9907.29	1289.86	9921.09	1289.03	9925.95
GR	1288.4	9933.11	1287.80	9966.44	1287.12	9983.42	1286.54	9996.77	1286.70	9997.57
GR	1287.3	10000.00	1288.25	10003.43	1288.23	10006.86	1288.27	10012.44	1287.98	10013.32
GR	1287.5	10015.44	1287.39	10031.19	1287.33	10049.36	1288.93	10053.35	1288.91	10053.73
GR	1288.2	10066.61	1287.65	10070.15	1286.93	10074.66	1286.74	10078.25	1286.35	10086.56
GR	1286.1	10092.39	1286.03	10094.60	1286.03	10097.86	1286.00	10098.67		

NH	6	0.06	9660.62	0.20	9749.96	0.02	9810.51	0.03	9917.57	0.03
NH	9997.0	0.025	10096.27							
ET		7.1	7.1	7.1	7.1		9002.24	10009.23		
X1	20.082	85	9917.57	9997.00	175.00	165.00	165.00			
GR	1292.1	9002.24	1291.78	9052.51	1291.73	9060.83	1291.72	9062.84	1291.70	9066.13
GR	1291.5	9099.22	1291.46	9119.42	1291.38	9135.59	1291.18	9162.09	1291.12	9171.97
GR	1291.0	9178.01	1290.83	9208.36	1290.62	9236.61	1290.54	9244.73	1290.46	9258.03
GR	1290.4	9294.66	1290.33	9315.92	1290.08	9350.88	1289.95	9366.08	1289.90	9382.00
GR	1289.8	9414.32	1289.57	9449.88	1289.51	9462.95	1289.47	9470.92	1289.33	9499.32
GR	1289.1	9529.52	1289.01	9545.82	1288.75	9588.11	1288.61	9635.00	1288.61	9635.61
GR	1288.5	9660.35	1288.50	9660.62	1288.24	9666.41	1288.79	9682.73	1287.79	9703.15
GR	1287.7	9712.56	1287.24	9729.52	1287.13	9749.96	1287.18	9757.78	1287.45	9781.40

GR	1287.3	9786.98	1287.27	9789.02	1287.20	9791.41	1287.08	9796.17	1286.72	9806.85
GR	1286.6	9809.15	1286.60	9810.51	1286.68	9819.94	1287.12	9829.18	1286.85	9848.50
GR	1286.3	9858.48	1286.08	9863.50	1286.02	9867.66	1285.56	9886.60	1285.91	9892.59
GR	1286.8	9913.71	1287.30	9917.57	1287.17	9934.25	1287.21	9939.57	1287.23	9943.39
GR	1287.7	9973.81	1287.70	9977.31	1287.60	9979.31	1287.21	9989.96	1288.02	9993.68
GR	1288.6	9997.00	1288.57	10000.00	1288.55	10001.80	1288.66	10009.23	1288.42	10010.00
GR	1287.6	10012.27	1287.43	10027.23	1287.37	10045.83	1288.68	10048.39	1289.11	10049.72
GR	1288.9	10054.36	1288.35	10064.27	1287.16	10072.08	1287.12	10072.34	1287.11	10072.80
GR	1286.8	10083.54	1286.73	10086.08	1286.40	10089.68	1286.37	10090.45	1285.21	10096.27
NH	6	0.06	9475.64	0.20	9616.97	0.02	9686.43	0.20	9965.25	0.035
NH	9992.6	0.025	10097.82							
ET		7.1	7.1	7.1	7.1		9015.22	10004.08		
X1	20.139	89	9965.25	9992.60	300.00	300.00	300.00			
GR	1292.0	9015.22	1291.73	9053.39	1291.56	9077.73	1291.42	9098.98	1291.36	9111.70
GR	1291.2	9165.64	1291.22	9170.55	1291.22	9171.74	1291.20	9173.68	1290.82	9208.11
GR	1290.7	9229.16	1290.58	9244.49	1290.48	9269.61	1290.42	9287.74	1290.29	9316.20
GR	1290.1	9346.33	1290.08	9366.10	1290.02	9375.71	1290.00	9383.89	1289.69	9424.43
GR	1290.0	9454.88	1289.97	9471.17	1290.09	9475.64	1289.89	9477.40	1289.61	9480.34
GR	1289.3	9489.45	1288.96	9530.15	1288.98	9548.28	1288.87	9579.47	1288.48	9598.96
GR	1288.4	9605.03	1288.10	9614.97	1288.04	9616.97	1288.05	9618.25	1288.03	9624.38
GR	1288.0	9628.13	1288.02	9628.40	1288.12	9638.45	1288.57	9649.43	1288.57	9649.73
GR	1287.8	9673.96	1287.84	9676.79	1287.83	9684.20	1287.85	9686.43	1288.01	9692.55
GR	1288.1	9696.52	1288.20	9700.93	1288.29	9705.41	1288.34	9707.95	1288.37	9709.67
GR	1288.4	9711.31	1288.80	9737.27	1289.06	9753.54	1288.93	9755.89	1287.97	9812.51
GR	1287.9	9820.20	1287.74	9829.49	1287.66	9867.49	1287.48	9901.50	1287.20	9944.60
GR	1287.6	9965.25	1287.50	9973.05	1287.44	9977.57	1286.76	9984.69	1286.77	9985.38
GR	1288.5	9992.60	1288.62	9999.67	1288.62	10000.00	1288.73	10004.08	1287.91	10006.56
GR	1287.7	10007.18	1287.70	10009.36	1287.45	10039.81	1288.93	10044.56	1289.18	10044.98
GR	1289.1	10046.97	1288.72	10056.31	1287.59	10063.11	1287.51	10063.85	1287.13	10073.73
GR	1287.1	10074.70	1287.05	10076.42	1286.85	10082.01	1286.08	10085.19	1284.99	10088.35
GR	1285.0	10088.74	1285.38	10093.39	1285.36	10096.68	1285.74	10097.82		
NH	8	0.06	9349.06	0.03	9362.27	0.02	9423.00	0.20	9507.19	0.02
NH	9542.9	0.20	9961.57	0.03	9988.98	0.025	10087.26			
ET		7.1	7.1	7.1	7.1		9037.85	10000.45		
X1	20.179	93	9961.57	9988.98	210.0	210.0	210.0			
GR	1292.5	9037.85	1292.51	9038.88	1292.22	9061.79	1292.07	9064.42	1290.91	9080.24
GR	1290.9	9087.32	1290.82	9096.19	1290.78	9133.79	1290.80	9159.49	1290.84	9199.75
GR	1290.9	9218.07	1290.86	9229.76	1290.75	9258.88	1290.62	9276.68	1290.50	9295.23
GR	1290.3	9325.72	1290.23	9331.64	1290.28	9335.24	1290.46	9337.32	1291.32	9349.06
GR	1288.4	9362.00	1288.32	9362.27	1288.33	9362.63	1288.52	9383.39	1288.54	9390.05
GR	1288.4	9401.22	1287.95	9423.00	1288.15	9432.22	1288.58	9455.58	1288.64	9457.91
GR	1288.7	9459.71	1289.39	9484.87	1288.81	9492.70	1288.18	9501.64	1287.95	9504.72
GR	1288.0	9507.19	1288.42	9522.35	1288.32	9531.16	1288.21	9542.90	1288.88	9555.01
GR	1289.3	9568.25	1290.24	9618.64	1290.28	9622.93	1290.21	9624.57	1290.05	9628.89
GR	1288.0	9671.65	1288.37	9682.31	1287.91	9710.13	1287.52	9716.98	1287.80	9721.51
GR	1288.0	9728.54	1288.61	9738.27	1288.62	9771.16	1288.63	9778.33	1288.28	9790.04
GR	1288.0	9806.26	1287.40	9820.08	1287.88	9830.87	1287.71	9843.92	1287.86	9853.31
GR	1287.5	9866.24	1287.13	9875.29	1287.32	9904.16	1287.33	9910.73	1287.69	9961.57
GR	1287.4	9972.94	1287.35	9975.05	1287.21	9976.95	1287.10	9978.34	1286.93	9980.28
GR	1286.9	9981.08	1289.06	9988.98	1289.07	9990.35	1289.19	10000.00	1289.20	10000.45
GR	1288.5	10002.21	1287.73	10003.75	1287.54	10027.99	1287.50	10035.87	1287.86	10036.54
GR	1289.5	10040.14	1289.41	10051.44	1289.33	10054.67	1288.67	10057.24	1288.59	10057.70

GR	1288.5	10059.15	1287.94	10071.75	1287.86	10076.42	1287.80	10079.06	1287.11	10080.06
GR	1285.0	10084.06	1285.03	10085.97	1285.45	10087.26				
NH	5	0.20	9605.81	0.02	9704.85	0.20	9966.09	0.035	9997.04	0.025
NH	10138									
ET		7.1	7.1	7.1	7.1		8968.17	9997.04		
X1	20.244	70	9966.09	9997.04	325.00	345.00	345.00			
GR	1292.5	8968.17	1292.54	8971.63	1292.50	8975.99	1292.15	9009.69	1291.49	9026.11
GR	1291.2	9073.44	1291.21	9076.01	1291.36	9126.15	1291.68	9167.55	1291.68	9187.84
GR	1291.4	9226.10	1291.45	9227.13	1291.18	9275.85	1291.35	9325.37	1291.34	9326.03
GR	1291.3	9332.16	1290.68	9384.97	1290.65	9389.48	1290.05	9426.02	1290.20	9476.02
GR	1290.2	9476.64	1290.24	9526.02	1289.71	9543.00	1289.10	9561.90	1288.04	9600.69
GR	1288.1	9605.81	1288.45	9617.00	1288.26	9627.76	1288.37	9633.42	1288.38	9639.76
GR	1288.5	9647.06	1288.55	9648.37	1288.56	9648.91	1288.56	9649.53	1288.62	9672.41
GR	1288.8	9704.85	1288.75	9737.11	1288.74	9742.42	1288.70	9748.31	1288.71	9753.97
GR	1288.8	9758.15	1288.79	9760.77	1289.29	9784.87	1289.40	9801.29	1289.41	9817.61
GR	1289.6	9849.93	1289.26	9874.37	1288.44	9966.09	1287.51	9986.93	1287.40	9988.57
GR	1287.6	9989.25	1289.47	9997.04	1289.39	10004.02	1287.86	10012.07	1287.82	10017.58
GR	1287.7	10043.55	1288.30	10044.87	1288.74	10045.72	1290.28	10049.29	1290.23	10058.57
GR	1289.8	10072.10	1289.62	10075.54	1289.56	10079.88	1289.36	10084.50	1285.65	10089.30
GR	1285.7	10089.68	1286.28	10090.50	1285.38	10126.10	1285.38	10127.46	1285.49	10138.00
NH	5	0.20	9495.50	0.02	9529.56	0.20	9970.48	0.03	9996.73	0.025
NH	10094									
ET		7.1	7.1	7.1	7.1		9008.57	9996.73		
X1	20.289	69	9970.48	9996.73	220.00	240.00	240.00			
GR	1292.8	9008.57	1292.14	9060.76	1292.23	9098.54	1292.08	9107.68	1291.17	9151.43
GR	1290.9	9189.07	1290.80	9204.90	1290.66	9229.10	1290.55	9255.11	1290.31	9281.27
GR	1290.3	9312.04	1290.10	9365.89	1290.10	9366.23	1289.56	9404.42	1289.46	9418.49
GR	1289.3	9455.96	1289.20	9473.76	1289.07	9479.09	1288.59	9495.50	1288.63	9501.14
GR	1288.7	9512.17	1288.20	9525.85	1288.07	9529.56	1288.25	9544.38	1288.69	9581.31
GR	1288.7	9590.49	1288.93	9605.86	1288.87	9636.89	1288.93	9674.11	1288.98	9688.84
GR	1289.1	9722.83	1289.17	9751.18	1288.89	9760.23	1288.80	9772.82	1288.57	9789.70
GR	1288.6	9796.38	1288.35	9813.80	1288.10	9832.68	1288.01	9844.22	1287.97	9856.94
GR	1287.7	9901.19	1287.70	9903.31	1287.70	9904.50	1287.67	9908.72	1287.30	9943.81
GR	1287.5	9954.12	1287.36	9970.48	1287.51	9986.98	1288.19	9990.46	1289.35	9996.73
GR	1289.3	9999.79	1289.31	10000.00	1289.19	10006.49	1288.50	10008.82	1288.14	10009.95
GR	1287.8	10011.28	1287.76	10018.02	1287.74	10043.61	1288.38	10045.32	1288.93	10047.74
GR	1289.9	10050.87	1289.80	10059.22	1289.70	10073.11	1289.31	10079.55	1289.04	10084.07
GR	1286.0	10089.25	1285.18	10090.84	1285.38	10091.35	1287.66	10094.00		
NH	8	0.02	9183.87	0.25	9410.56	0.02	9444.04	0.20	9693.14	0.02
NH	9778.9	0.20	9988.26	0.03	9996.33	0.025	10097.05			
ET		7.1	7.1	7.1	7.1		9011.17	9996.33		
X1	20.324	88	9988.26	9996.33	185.0	185.0	185.0			
GR	1292.7	9011.17	1292.56	9019.60	1292.35	9042.56	1292.39	9067.66	1292.38	9095.98
GR	1292.4	9104.24	1292.36	9112.82	1291.86	9142.37	1291.69	9148.65	1291.29	9183.87
GR	1291.6	9192.97	1291.72	9195.66	1291.49	9221.34	1291.22	9249.70	1290.76	9261.13
GR	1290.9	9283.55	1290.70	9299.63	1290.05	9344.81	1289.59	9389.69	1289.15	9398.65
GR	1288.8	9410.56	1288.85	9424.37	1288.85	9427.22	1288.73	9430.46	1288.13	9444.04
GR	1288.9	9494.06	1288.95	9495.23	1288.96	9495.82	1288.96	9496.85	1288.86	9573.64
GR	1289.0	9601.97	1289.16	9643.19	1289.13	9649.92	1289.12	9652.44	1289.09	9657.60
GR	1289.0	9667.21	1288.94	9686.00	1288.93	9693.14	1288.96	9701.83	1289.00	9710.29
GR	1289.0	9716.02	1289.03	9729.01	1289.04	9733.24	1289.05	9737.26	1289.05	9739.96

GR	1289.1	9742.09	1289.06	9744.38	1289.06	9745.91	1289.05	9748.14	1289.03	9750.43
GR	1289.0	9753.11	1288.98	9768.06	1288.97	9770.34	1289.01	9772.56	1288.98	9778.90
GR	1289.2	9788.05	1289.41	9800.90	1289.48	9804.21	1289.70	9814.25	1289.64	9826.35
GR	1289.5	9886.79	1288.23	9920.39	1287.86	9925.69	1287.26	9934.09	1287.27	9937.98
GR	1287.4	9988.26	1288.53	9993.08	1289.20	9996.33	1289.12	10000.00	1289.11	10000.40
GR	1289.0	10006.43	1288.63	10008.18	1287.77	10011.26	1287.72	10040.49	1287.72	10043.32
GR	1288.4	10045.20	1290.02	10049.21	1289.75	10054.75	1289.28	10068.92	1289.75	10075.24
GR	1289.6	10077.26	1289.25	10083.82	1285.84	10090.18	1285.68	10090.60	1286.52	10092.69
GR	1286.8	10094.01	1287.30	10095.29	1288.70	10097.05				

ADOBE STREET

NC	0.02	0.02	0.02							
ET		7.1	7.1	7.1	7.1		8935.41	10119.62		
X1	20.379	41	9577.71	9818.03	190.0	290.0	290.0			
GR	1293.1	8935.41	1293.02	8956.14	1292.48	9014.86	1291.52	9093.69	1291.22	9144.07
GR	1290.8	9217.29	1290.53	9273.45	1290.53	9274.15	1290.30	9321.92	1290.13	9323.08
GR	1290.0	9358.42	1289.95	9358.89	1289.76	9393.04	1289.36	9445.75	1289.30	9453.06
GR	1289.3	9455.24	1289.04	9516.07	1289.02	9518.88	1288.56	9577.71	1288.53	9584.76
GR	1288.3	9640.82	1288.29	9645.82	1288.21	9700.19	1288.20	9704.80	1288.18	9719.70
GR	1288.2	9762.68	1288.27	9767.90	1288.55	9818.03	1289.69	9891.68	1291.06	9964.25
GR	1291.1	9989.00	1291.28	9991.09	1291.32	10008.34	1291.35	10022.87	1291.50	10068.37
GR	1291.0	10069.92	1290.77	10107.54	1290.71	10111.58	1290.37	10113.79	1290.35	10118.50
GR	1290.3	10119.62								

QT	2	35	85							
NH	4	0.25	9791.08	0.03	9977.17	0.03	10003.90	0.025	10099.77	
ET		7.1	7.1	7.1	7.1		9004.83	10003.90		
X1	20.393	69	9977.17	10003.90	135.0	70.0	70.0			
GR	1291.7	9004.82	1291.59	9012.20	1291.22	9035.50	1291.28	9039.44	1291.41	9051.08
GR	1291.1	9065.32	1291.05	9067.77	1291.31	9088.13	1290.94	9097.26	1291.07	9117.50
GR	1290.8	9149.41	1290.62	9182.80	1290.74	9188.27	1290.36	9216.48	1290.28	9230.66
GR	1290.7	9238.34	1290.85	9267.03	1290.60	9283.66	1290.84	9288.42	1290.82	9319.94
GR	1290.7	9338.50	1290.77	9355.17	1290.44	9425.73	1290.31	9429.00	1290.41	9438.63
GR	1290.3	9445.10	1290.25	9484.56	1290.37	9488.71	1290.22	9494.79	1290.09	9536.58
GR	1290.2	9538.77	1290.08	9543.31	1290.08	9587.62	1290.06	9592.51	1290.18	9687.89
GR	1290.2	9688.99	1290.17	9689.59	1290.17	9691.60	1290.09	9765.44	1290.03	9791.08
GR	1288.4	9795.87	1288.24	9796.95	1286.76	9809.71	1284.33	9835.64	1283.84	9848.77
GR	1283.8	9850.64	1283.72	9851.85	1285.33	9881.51	1286.45	9893.62	1288.41	9910.46
GR	1288.4	9911.30	1289.08	9977.17	1287.82	9985.97	1288.53	9988.37	1289.63	10003.90
GR	1288.1	10010.98	1287.74	10012.50	1288.11	10043.30	1289.02	10046.63	1290.26	10050.83
GR	1290.5	10062.75	1290.39	10081.25	1290.46	10092.19	1290.52	10094.23	1290.53	10095.43
GR	1290.7	10098.43	1290.69	10098.78	1290.69	10099.43	1290.70	10099.77		

NH	7	0.25	9077.65	0.02	9169.82	0.25	9685.82	0.02	9719.23	0.03
NH	9982.2	0.03	9999.53	0.025	10096.32					
ET		7.1	7.1	7.1	7.1		9017.22	9999.53		
X1	20.432	91	9982.20	9999.53	195.00	205.00	205.00			
GR	1291.7	9017.22	1291.26	9050.21	1291.37	9061.22	1291.34	9068.16	1291.26	9069.96
GR	1291.0	9077.65	1290.64	9121.77	1290.61	9124.69	1290.61	9125.41	1290.61	9125.97
GR	1290.6	9131.65	1290.61	9169.82	1290.63	9173.77	1290.66	9208.16	1290.66	9217.44
GR	1290.7	9219.63	1290.67	9223.43	1290.86	9282.95	1290.81	9307.14	1290.87	9320.27
GR	1290.5	9379.62	1290.32	9415.38	1290.26	9432.69	1290.23	9469.09	1290.24	9485.76
GR	1290.2	9493.68	1290.12	9515.98	1289.98	9532.83	1289.94	9538.81	1289.85	9571.97
GR	1289.1	9633.74	1288.96	9644.94	1288.59	9657.58	1287.92	9685.82	1288.12	9700.19

GR	1288.1	9701.16	1288.14	9701.54	1288.11	9702.28	1287.47	9719.23	1287.74	9722.68
GR	1288.2	9731.11	1288.13	9733.52	1286.29	9746.02	1284.00	9765.65	1283.31	9770.49
GR	1284.0	9793.02	1284.36	9803.38	1284.37	9807.57	1284.29	9809.99	1283.66	9829.55
GR	1283.9	9841.18	1284.24	9857.20	1285.27	9873.33	1285.79	9883.60	1287.89	9906.61
GR	1287.9	9907.24	1287.97	9907.47	1287.89	9963.33	1287.91	9963.94	1288.78	9982.20
GR	1288.8	9985.62	1288.82	9985.95	1288.74	9986.88	1288.72	9987.12	1288.69	9987.43
GR	1288.6	9988.54	1288.49	9990.11	1288.36	9991.87	1288.42	9992.35	1288.50	9993.04
GR	1289.2	9999.53	1289.17	10000.00	1289.13	10004.31	1288.97	10012.18	1287.90	10015.69
GR	1287.7	10016.33	1288.10	10047.71	1288.12	10047.95	1288.19	10048.23	1289.71	10053.59
GR	1289.7	10056.79	1289.69	10067.34	1289.79	10070.98	1290.02	10078.43	1290.24	10081.87
GR	1290.3	10082.81	1290.50	10085.38	1290.48	10090.11	1290.51	10092.61	1290.51	10094.27
GR	1290.5	10096.32								

NH	7	0.20	9319.02	0.02	9365.00	0.20	9665.84	0.02	9733.72	0.15
NH	9989.0	0.03	10004.09	0.025	10092.16					
ET		7.1	7.1	7.1	7.1		9016.28	10004.09		
X1	20.465	97	9989.00	10004.09	195.00	175.00	175.00			
GR	1293.0	9016.28	1292.89	9025.63	1292.89	9027.00	1292.90	9028.22	1293.07	9060.74
GR	1293.0	9091.12	1292.98	9092.03	1292.99	9093.18	1292.85	9147.09	1292.19	9201.06
GR	1292.2	9203.01	1292.16	9203.66	1292.17	9204.95	1292.12	9278.19	1292.07	9314.82
GR	1292.0	9315.46	1291.91	9319.02	1292.08	9329.13	1292.31	9340.44	1292.11	9354.64
GR	1291.9	9361.78	1291.99	9365.00	1291.82	9376.17	1291.29	9389.99	1290.88	9428.53
GR	1290.7	9455.52	1290.50	9471.72	1290.35	9482.52	1290.23	9500.53	1289.43	9552.27
GR	1289.1	9588.78	1289.25	9605.89	1288.95	9650.23	1288.94	9652.10	1288.89	9665.84
GR	1288.8	9691.12	1288.72	9696.11	1288.71	9701.60	1288.47	9733.72	1288.49	9738.71
GR	1288.4	9763.14	1288.46	9763.88	1289.14	9799.92	1289.24	9817.95	1289.10	9827.26
GR	1289.1	9832.68	1289.66	9873.19	1289.66	9873.60	1289.66	9873.88	1289.68	9875.66
GR	1289.4	9929.76	1288.11	9947.64	1288.01	9949.41	1287.95	9950.36	1287.59	9955.35
GR	1287.6	9956.02	1287.60	9956.46	1288.25	9970.07	1288.55	9976.09	1288.72	9979.43
GR	1288.8	9981.34	1288.89	9982.48	1288.94	9983.33	1289.11	9987.54	1289.13	9989.00
GR	1289.1	9990.04	1288.97	9991.13	1288.94	9991.37	1288.90	9991.81	1288.88	9992.11
GR	1288.8	9992.80	1288.75	9993.66	1288.67	9994.52	1288.60	9995.56	1288.64	9996.23
GR	1288.7	9996.48	1288.68	9996.77	1288.73	9997.44	1288.84	10000.00	1289.00	10004.09
GR	1289.0	10012.15	1288.93	10014.38	1288.64	10015.29	1287.82	10018.56	1288.03	10039.82
GR	1288.1	10049.41	1288.64	10050.94	1290.12	10054.85	1289.90	10059.75	1290.03	10062.46
GR	1289.9	10067.96	1289.99	10069.53	1290.35	10073.86	1290.31	10081.78	1290.37	10085.97
GR	1290.4	10088.73	1290.43	10092.16						

NH	5	0.2	9199.68	0.02	9240.02	0.15	9983.44	0.03	9998.91	0.025
NH	10000									
ET		7.1	7.1	7.1	7.1		9001.43	9998.91		
X1	20.515	91	9983.44	9998.91	260.00	265.00	265.00			
GR	1293.2	9001.43	1293.09	9070.74	1293.09	9078.47	1293.09	9080.17	1292.80	9123.24
GR	1292.0	9199.68	1292.27	9214.61	1292.31	9217.94	1292.09	9225.27	1291.69	9240.02
GR	1291.7	9245.73	1291.59	9250.38	1292.09	9266.97	1292.63	9319.04	1292.62	9337.26
GR	1291.1	9467.79	1291.31	9517.19	1291.17	9529.11	1291.19	9532.67	1291.18	9536.91
GR	1291.2	9543.27	1291.19	9567.31	1291.19	9570.43	1291.16	9571.80	1290.95	9615.79
GR	1291.1	9626.45	1291.48	9672.89	1291.44	9684.23	1291.21	9691.45	1289.99	9722.18
GR	1290.0	9735.70	1289.58	9760.11	1288.79	9790.33	1288.62	9806.62	1288.58	9809.26
GR	1288.6	9818.54	1288.44	9828.47	1288.43	9829.15	1288.42	9829.61	1288.41	9830.02
GR	1288.3	9837.42	1288.28	9838.19	1288.26	9838.86	1288.25	9839.46	1288.25	9840.04
GR	1288.2	9840.64	1288.22	9841.73	1288.21	9842.46	1288.19	9843.19	1288.18	9843.96
GR	1288.2	9844.78	1288.15	9845.72	1288.14	9846.84	1288.12	9847.90	1288.11	9848.73
GR	1288.1	9849.93	1287.91	9868.01	1287.89	9869.73	1287.86	9872.11	1287.83	9874.59

GR	1287.8	9876.31	1287.79	9877.53	1287.78	9878.73	1287.77	9880.08	1287.75	9881.70
GR	1287.7	9899.58	1287.67	9911.86	1287.28	9939.77	1287.16	9946.68	1287.16	9947.29
GR	1287.2	9947.97	1287.15	9948.49	1287.15	9948.88	1287.15	9949.17	1287.35	9954.64
GR	1288.6	9981.53	1288.65	9983.44	1288.64	9983.78	1288.63	9984.04	1288.63	9984.30
GR	1288.6	9984.56	1288.61	9984.93	1288.60	9985.45	1288.59	9986.45	1288.57	9987.89
GR	1288.5	9988.96	1288.54	9989.45	1288.54	9990.10	1288.60	9991.14	1289.34	9998.91
GR	1289.3	10000.00								
NH	7	0.2	9146.80	0.02	9185.43	0.20	9668.16	0.02	9701.34	0.15
NH	9975.4	0.03	10001.77	0.025	10012.20					
ET		7.1	7.1	7.1	7.1		8999.96	10001.77		
X1	20.559	95	9975.40	10001.77	230.00	230.00	230.00			
GR	1293.5	8999.96	1293.53	9003.47	1293.51	9006.63	1293.51	9016.29	1293.31	9057.34
GR	1293.2	9105.35	1293.17	9108.14	1293.15	9109.19	1293.15	9110.64	1293.15	9112.16
GR	1293.1	9113.23	1292.93	9121.03	1292.33	9146.80	1292.34	9149.09	1292.71	9167.89
GR	1292.4	9176.83	1292.33	9185.43	1292.31	9186.04	1291.86	9219.66	1291.84	9221.41
GR	1291.8	9222.53	1291.82	9224.77	1291.82	9270.65	1291.71	9291.54	1291.70	9315.02
GR	1291.8	9332.65	1291.81	9344.19	1291.63	9374.37	1291.54	9390.24	1291.43	9410.63
GR	1291.3	9442.76	1291.03	9463.60	1290.80	9479.48	1290.76	9486.81	1290.72	9493.79
GR	1290.7	9501.06	1290.50	9524.80	1290.42	9538.41	1290.74	9552.88	1290.70	9583.02
GR	1290.5	9601.40	1290.44	9607.50	1290.42	9611.35	1290.17	9643.07	1289.82	9664.50
GR	1289.7	9668.16	1289.75	9679.47	1289.79	9687.09	1289.48	9692.20	1288.98	9701.34
GR	1289.0	9703.13	1289.17	9711.10	1289.18	9713.08	1289.11	9718.05	1289.30	9750.80
GR	1289.3	9773.11	1289.20	9788.49	1289.52	9821.85	1289.51	9828.17	1287.98	9863.85
GR	1288.0	9883.22	1287.98	9901.54	1287.67	9938.29	1287.68	9940.24	1287.68	9940.48
GR	1287.7	9940.91	1287.70	9941.64	1287.73	9942.87	1287.80	9946.47	1288.06	9962.02
GR	1288.6	9972.68	1288.69	9975.40	1288.65	9976.30	1288.63	9976.71	1288.61	9977.00
GR	1288.6	9977.30	1288.56	9977.75	1288.53	9978.02	1288.34	9981.36	1288.29	9983.80
GR	1288.3	9984.02	1288.28	9984.44	1288.28	9984.97	1288.27	9985.60	1288.27	9986.51
GR	1288.3	9988.07	1288.64	9993.16	1288.81	9995.32	1288.94	9997.10	1288.99	9997.68
GR	1289.0	9998.05	1289.16	10000.00	1289.22	10000.79	1289.22	10001.77	1289.16	10012.20
NH	7	0.2	9154.20	0.02	9192.86	0.20	9668.45	0.02	9701.52	0.15
NH	9974.7	0.03	10013.23	0.025	10082.61					
ET		7.1	7.1	7.1	7.1		9022.90	10053.40		
X1	20.608	95	9974.70	10013.23	270.00	260.00	260.00			
GR	1293.8	9022.90	1293.77	9033.18	1293.71	9044.08	1293.62	9056.63	1293.41	9095.99
GR	1293.3	9128.24	1293.20	9135.40	1293.12	9139.28	1293.05	9142.45	1293.01	9145.11
GR	1293.0	9147.48	1292.98	9150.40	1292.98	9154.20	1292.98	9157.17	1293.21	9170.56
GR	1293.0	9180.49	1292.87	9185.85	1292.64	9191.38	1292.66	9192.86	1292.67	9194.23
GR	1292.8	9200.29	1292.88	9204.48	1292.91	9207.62	1292.90	9210.82	1292.89	9213.88
GR	1292.9	9225.84	1292.43	9260.07	1292.22	9293.00	1292.01	9304.32	1291.90	9335.87
GR	1292.1	9357.04	1291.63	9388.81	1291.50	9397.76	1291.54	9410.39	1291.32	9442.97
GR	1290.9	9498.02	1290.93	9498.71	1290.92	9499.33	1290.86	9536.03	1290.73	9559.03
GR	1290.4	9593.98	1290.29	9610.46	1290.19	9625.40	1290.12	9651.00	1289.77	9661.52
GR	1289.6	9666.02	1289.64	9666.35	1289.61	9666.71	1289.49	9668.45	1289.76	9672.60
GR	1289.9	9675.45	1289.92	9677.39	1290.11	9686.33	1289.87	9694.74	1289.61	9701.52
GR	1290.1	9715.24	1289.89	9729.24	1289.37	9755.26	1289.00	9821.55	1288.69	9844.41
GR	1288.3	9865.20	1289.07	9901.53	1288.06	9902.00	1288.06	9903.27	1288.06	9903.93
GR	1288.1	9904.91	1288.06	9908.30	1287.98	9961.40	1287.99	9962.45	1288.38	9967.92
GR	1288.9	9974.70	1288.87	9984.96	1288.87	9986.41	1288.99	9988.65	1289.06	9990.19
GR	1289.1	9991.16	1289.13	9992.07	1289.15	9992.83	1289.39	10000.00	1289.42	10001.02
GR	1289.4	10009.34	1289.35	10012.09	1289.37	10013.23	1288.47	10015.44	1288.24	10016.18
GR	1288.2	10024.99	1288.11	10045.87	1289.59	10050.40	1290.80	10053.40	1290.69	10065.39

GR	1290.7	10066.85	1290.68	10067.09	1290.68	10067.50	1290.61	10074.04	1290.75	10082.61
NH	6	0.2	9152.04	0.02	9190.61	0.20	9670.20	0.02	9703.15	0.15
NH	9973.4	0.03	10008.85							
ET		7.1	7.1	7.1	7.1		9010.39	10008.85		
X1	20.651	95	9973.40	10008.85	225.00	225.00	225.00			
GR	1293.8	9010.39	1293.94	9024.72	1294.10	9042.69	1293.99	9047.04	1294.04	9049.06
GR	1294.0	9055.91	1293.91	9086.10	1293.63	9111.20	1293.04	9143.25	1292.74	9152.04
GR	1292.9	9161.37	1293.02	9170.60	1292.93	9174.83	1292.60	9185.35	1292.43	9190.61
GR	1292.4	9192.72	1292.36	9197.49	1292.01	9230.26	1292.20	9287.63	1292.18	9299.31
GR	1291.3	9427.86	1291.34	9443.65	1291.31	9485.44	1291.02	9505.23	1291.39	9523.43
GR	1291.2	9543.04	1290.28	9596.73	1290.15	9608.70	1290.20	9615.00	1290.16	9658.23
GR	1289.6	9669.69	1289.56	9670.20	1289.57	9671.72	1289.64	9689.14	1289.60	9691.47
GR	1289.4	9696.15	1289.23	9703.15	1289.63	9709.55	1289.97	9712.08	1289.97	9712.87
GR	1290.0	9714.01	1289.96	9716.46	1289.96	9717.82	1289.96	9719.02	1289.96	9720.10
GR	1290.0	9721.37	1289.96	9722.74	1289.96	9724.07	1289.91	9738.01	1289.91	9739.60
GR	1289.9	9741.08	1289.91	9743.55	1289.91	9745.24	1289.90	9747.37	1289.90	9749.97
GR	1289.9	9752.55	1289.88	9755.43	1289.88	9758.04	1289.87	9760.47	1289.86	9762.92
GR	1289.6	9773.42	1289.32	9791.42	1289.35	9798.99	1289.33	9799.92	1289.31	9800.43
GR	1289.3	9801.27	1289.24	9802.49	1288.95	9814.97	1288.95	9815.59	1288.94	9816.43
GR	1288.9	9817.43	1288.93	9818.24	1288.92	9818.86	1288.91	9819.41	1288.41	9830.99
GR	1287.7	9883.84	1287.62	9888.60	1287.63	9889.27	1287.62	9892.17	1287.96	9926.54
GR	1287.8	9946.17	1288.11	9959.84	1288.11	9962.06	1288.11	9962.84	1288.41	9966.41
GR	1289.0	9973.40	1288.94	9979.16	1288.84	9987.99	1288.84	9988.70	1288.80	9990.68
GR	1288.8	9991.79	1288.76	9992.65	1289.02	10000.00	1289.08	10001.79	1289.15	10008.85
NH	5	0.2	9153.30	0.02	9190.48	0.15	9975.30	0.03	10012.71	0.025
NH	10030									
ET		7.1	7.1	7.1	7.1		9003.65	10012.71		
X1	20.676	95	9975.30	10012.71	130.00	130.00	130.00			
GR	1294.2	9003.65	1294.16	9009.19	1293.26	9065.60	1293.29	9082.48	1292.74	9112.02
GR	1292.6	9152.34	1292.67	9153.30	1293.07	9172.80	1292.37	9187.40	1292.22	9190.48
GR	1292.4	9224.49	1292.38	9238.38	1292.33	9288.92	1292.34	9295.96	1292.30	9302.36
GR	1291.5	9448.94	1291.61	9468.74	1291.47	9515.06	1291.40	9524.26	1291.42	9526.32
GR	1290.4	9668.81	1290.35	9699.11	1290.28	9700.94	1290.31	9703.45	1290.31	9703.78
GR	1290.3	9704.31	1290.32	9705.01	1290.32	9705.56	1290.32	9706.00	1290.38	9716.56
GR	1290.3	9742.10	1290.04	9756.69	1289.77	9779.23	1289.76	9780.87	1289.76	9782.44
GR	1289.8	9784.17	1289.75	9785.93	1289.75	9787.15	1289.75	9788.16	1289.75	9789.13
GR	1289.7	9789.78	1289.74	9790.65	1289.74	9791.77	1289.74	9792.98	1289.73	9795.19
GR	1289.7	9796.39	1289.70	9825.49	1289.70	9826.35	1289.70	9827.71	1289.70	9829.36
GR	1289.7	9830.82	1289.70	9832.36	1289.70	9834.10	1289.70	9835.74	1289.69	9837.60
GR	1289.6	9877.08	1289.12	9888.04	1288.75	9896.83	1288.52	9902.48	1288.30	9907.74
GR	1288.1	9911.72	1287.78	9918.11	1287.76	9920.31	1287.73	9921.03	1287.71	9921.54
GR	1287.5	9929.46	1287.58	9932.31	1287.60	9933.29	1287.62	9934.49	1287.64	9935.99
GR	1287.7	9937.88	1287.70	9940.12	1287.75	9943.46	1287.89	9951.03	1287.97	9955.38
GR	1288.8	9968.96	1289.25	9975.30	1289.03	9982.23	1288.79	9990.08	1288.80	9990.94
GR	1288.9	9994.65	1288.92	9996.53	1288.95	9997.58	1288.96	9998.40	1288.98	9999.03
GR	1289.0	9999.52	1289.00	10000.00	1289.00	10000.27	1289.01	10000.76	1289.03	10002.05
GR	1289.0	10002.78	1289.48	10012.71	1288.47	10015.89	1288.19	10017.09	1288.15	10030.00

NH	7	0.2	9151.09	0.02	9194.63	0.20	9667.38	0.02	9712.35	0.15
NH	9964.1	0.03	9999.21	0.025	10086.24					
ET		7.1	7.1	7.1	7.1		9003.63	10013.63		
X1	20.727	91	9964.10	9999.21	270.00	270.00	270.00			
GR	1294.0	9003.63	1293.48	9074.75	1293.44	9082.96	1293.42	9086.98	1293.49	9099.47
GR	1293.3	9131.95	1293.18	9151.09	1293.19	9151.55	1293.22	9163.26	1293.24	9167.24
GR	1293.3	9173.41	1293.25	9175.84	1293.16	9179.41	1292.91	9183.34	1292.57	9193.72
GR	1292.6	9194.63	1292.67	9196.69	1292.67	9198.02	1292.66	9199.79	1292.58	9207.12
GR	1292.4	9234.04	1292.24	9243.14	1292.05	9276.34	1291.66	9326.64	1291.52	9341.85
GR	1291.6	9370.43	1291.50	9387.11	1290.97	9429.23	1290.87	9439.87	1290.97	9485.89
GR	1291.0	9487.17	1290.11	9546.96	1289.91	9557.32	1290.13	9581.33	1289.92	9607.81
GR	1289.4	9627.92	1289.19	9651.31	1289.00	9661.79	1288.98	9663.88	1288.96	9666.79
GR	1289.0	9667.38	1288.96	9669.62	1288.98	9672.94	1289.01	9679.42	1289.08	9687.91
GR	1289.0	9689.48	1288.82	9698.34	1288.57	9712.35	1288.67	9716.34	1288.64	9745.34
GR	1288.7	9774.52	1288.55	9787.30	1288.04	9832.23	1287.37	9887.34	1287.35	9888.99
GR	1287.4	9889.95	1287.37	9894.06	1287.42	9947.16	1288.73	9961.96	1288.92	9964.10
GR	1288.7	9970.95	1288.16	9987.97	1288.33	9989.84	1288.48	9991.53	1288.65	9993.39
GR	1288.7	9994.35	1288.82	9995.19	1288.87	9995.73	1288.90	9996.15	1288.93	9996.50
GR	1289.0	9996.79	1289.00	9997.25	1289.16	9998.73	1289.20	9999.21	1289.23	10000.00
GR	1289.2	10000.70	1289.39	10006.22	1289.61	10013.63	1288.23	10017.06	1287.88	10017.87
GR	1287.9	10019.80	1288.14	10048.27	1288.37	10048.77	1290.58	10053.91	1290.55	10055.07
GR	1290.5	10067.70	1290.40	10069.68	1290.36	10070.94	1289.97	10075.75	1290.00	10084.16
GR	1289.8	10086.24								

NH	7	0.2	9123.73	0.02	9162.39	0.20	9670.45	0.02	9701.76	0.15
NH	9964.1	0.035	10003.40	0.025	10013.14					
ET		7.1	7.1	7.1	7.1		9059.38	10003.40		
X1	20.768	95	9964.10	10003.40	215.00	215.00	215.00			
GR	1294.5	9059.38	1294.41	9073.20	1293.25	9122.69	1293.24	9123.73	1293.40	9136.64
GR	1293.5	9144.33	1292.93	9158.10	1292.76	9162.39	1293.01	9168.25	1293.39	9177.20
GR	1293.6	9188.66	1293.04	9214.58	1293.03	9246.39	1293.05	9251.18	1292.94	9259.51
GR	1292.5	9287.79	1292.32	9304.11	1291.26	9359.55	1291.24	9361.82	1291.58	9397.59
GR	1291.4	9419.54	1291.37	9434.20	1291.57	9459.61	1290.95	9535.01	1290.78	9559.63
GR	1288.9	9670.45	1288.89	9671.56	1288.83	9686.34	1288.43	9699.66	1288.33	9701.76
GR	1288.5	9704.90	1289.26	9759.74	1289.20	9766.14	1289.19	9766.40	1289.11	9787.36
GR	1289.0	9795.89	1288.95	9797.46	1288.95	9797.79	1289.13	9827.43	1289.11	9831.10
GR	1289.0	9863.80	1289.04	9864.90	1289.03	9866.35	1289.03	9867.21	1289.03	9867.87
GR	1289.0	9868.76	1289.04	9869.70	1289.04	9870.89	1289.04	9872.43	1289.03	9874.42
GR	1289.0	9875.52	1289.03	9876.70	1289.03	9877.85	1289.01	9878.89	1289.00	9879.68
GR	1289.0	9880.67	1289.00	9881.72	1288.99	9882.53	1288.99	9884.60	1288.98	9885.83
GR	1289.0	9886.62	1288.98	9887.44	1288.96	9888.16	1288.96	9888.86	1288.73	9907.95
GR	1288.7	9909.12	1288.67	9910.21	1288.65	9911.06	1288.59	9912.46	1288.55	9913.02
GR	1288.5	9914.09	1288.41	9916.50	1288.42	9919.61	1288.41	9920.06	1288.19	9939.08
GR	1288.0	9951.65	1287.95	9952.47	1287.92	9953.79	1287.87	9955.69	1287.80	9958.98
GR	1287.7	9960.95	1287.66	9964.10	1288.32	9976.32	1288.57	9980.62	1288.40	9985.01
GR	1288.3	9987.59	1288.22	9989.97	1288.25	9990.61	1288.29	9991.08	1288.33	9991.52
GR	1289.1	10000.00	1289.15	10000.84	1289.29	10003.40	1289.05	10010.94	1289.02	10013.14

NH	5	0.20	9595.21	0.02	9630.82	0.15	9938.35	0.03	10001.11	0.025
NH	10091									
ET		7.1	7.1	7.1	7.1		9006.72	10001.11		
X1	20.815	84	9938.35	10001.11	250.0	250.0	250.0			
GR	1293.9	9006.72	1293.85	9009.27	1293.69	9021.16	1293.57	9030.06	1293.56	9032.36
GR	1293.6	9041.37	1293.62	9041.90	1293.61	9042.66	1293.59	9049.10	1293.46	9057.35
GR	1293.5	9059.87	1293.44	9065.36	1293.33	9078.05	1293.33	9080.63	1293.44	9085.91
GR	1293.5	9096.38	1293.50	9097.36	1293.49	9098.60	1293.52	9102.15	1293.37	9115.28
GR	1293.0	9159.85	1292.87	9164.31	1292.91	9171.81	1293.00	9217.58	1292.84	9223.75
GR	1292.2	9271.22	1292.21	9275.30	1292.25	9281.64	1292.10	9292.62	1291.86	9318.24
GR	1291.7	9333.04	1291.39	9388.23	1291.37	9391.45	1291.38	9392.64	1291.75	9448.50
GR	1291.0	9492.68	1290.81	9501.26	1290.69	9524.65	1290.63	9563.93	1290.29	9571.50
GR	1289.4	9595.21	1289.48	9597.14	1289.73	9609.25	1289.65	9614.04	1289.42	9630.82
GR	1289.4	9634.07	1289.92	9679.39	1289.86	9684.30	1289.79	9780.07	1289.78	9792.87
GR	1289.8	9794.12	1289.76	9794.84	1289.71	9797.53	1288.39	9852.58	1288.29	9867.32
GR	1288.0	9892.88	1287.92	9910.29	1287.74	9938.35	1287.69	9950.32	1287.63	9969.39
GR	1288.1	9975.16	1288.68	9981.48	1288.26	9988.10	1288.11	9990.43	1288.15	9990.70
GR	1288.3	9991.56	1289.20	9998.83	1289.30	10000.00	1289.39	10001.11	1289.27	10007.72
GR	1289.3	10014.41	1287.70	10018.11	1287.45	10018.71	1287.50	10021.21	1288.14	10048.40
GR	1288.5	10049.25	1290.41	10053.31	1290.28	10057.04	1290.12	10068.89	1290.17	10072.88
GR	1289.0	10077.04	1288.09	10080.34	1287.75	10081.05	1289.51	10091.00		

NH	5	0.20	9472.89	0.02	9504.37	0.20	9976.09	0.03	9998.80	0.025
NH	10124									
ET		7.1	7.1	7.1	7.1		9161.44	9998.80		
X1	20.870	79	9976.09	9998.80	285.0	285.0	285.0			
GR	1292.6	9161.44	1292.30	9176.69	1292.33	9193.07	1292.73	9240.75	1292.72	9243.09
GR	1291.7	9333.06	1291.69	9343.14	1291.58	9348.64	1290.88	9435.13	1290.93	9443.17
GR	1290.7	9448.55	1290.09	9472.89	1290.59	9485.27	1290.67	9487.70	1290.65	9489.52
GR	1290.6	9504.37	1291.18	9527.50	1291.40	9543.22	1289.93	9616.57	1289.68	9643.27
GR	1289.4	9662.73	1289.32	9685.74	1289.72	9693.28	1289.85	9711.22	1289.92	9722.97
GR	1290.0	9773.11	1289.98	9794.88	1289.99	9799.50	1290.00	9801.08	1290.00	9803.68
GR	1290.0	9804.98	1290.01	9806.55	1290.01	9808.50	1290.08	9838.49	1290.09	9840.50
GR	1290.1	9842.69	1289.82	9847.23	1289.67	9850.05	1289.53	9852.84	1289.46	9854.35
GR	1289.2	9858.68	1289.16	9859.65	1289.10	9860.82	1289.04	9861.92	1287.79	9918.55
GR	1289.0	9976.09	1288.38	9989.91	1288.50	9992.20	1289.17	9998.26	1289.46	9998.80
GR	1289.4	10003.24	1289.20	10012.59	1287.90	10017.67	1288.27	10047.28	1288.85	10048.47
GR	1289.5	10051.02	1290.40	10053.90	1290.40	10057.27	1290.38	10069.79	1286.85	10083.95
GR	1286.8	10084.44	1286.69	10085.01	1286.58	10085.58	1286.51	10086.21	1286.20	10087.30
GR	1286.3	10092.84	1286.30	10093.33	1286.33	10093.73	1286.42	10094.91	1286.51	10095.75
GR	1286.7	10104.19	1286.69	10104.79	1286.69	10105.79	1286.69	10106.10	1288.12	10114.25
GR	1287.6	10120.61	1287.61	10123.08	1287.56	10123.69	1287.53	10124.00		

NH	4	0.20	9567.49	0.15	9975.03	0.03	9998.46	0.025	10114.19	
ET		7.1	7.1	7.1	7.1		9129.50	9998.46		
X1	20.912	95	9975.03	9998.46	225.00	220.00	220.00			
GR	1292.6	9129.50	1292.58	9131.55	1292.34	9146.14	1292.28	9150.42	1292.27	9151.67
GR	1291.8	9182.63	1291.76	9209.64	1291.64	9232.62	1291.80	9254.63	1291.83	9282.64
GR	1291.7	9311.89	1291.52	9332.65	1291.34	9352.54	1290.94	9382.67	1291.04	9416.92
GR	1291.0	9432.68	1290.73	9465.25	1290.58	9482.70	1290.69	9499.39	1290.29	9567.49
GR	1290.1	9582.71	1289.93	9597.28	1289.77	9632.72	1289.38	9661.58	1289.35	9664.29
GR	1289.3	9669.44	1289.26	9678.12	1289.24	9679.71	1289.23	9681.27	1289.21	9683.03
GR	1289.2	9684.68	1289.19	9686.67	1289.22	9687.87	1289.23	9688.68	1289.24	9689.31

GR	1289.3	9689.95	1289.46	9706.58	1289.49	9708.44	1289.52	9710.51	1289.55	9712.67
GR	1289.6	9715.56	1289.63	9718.31	1289.66	9720.86	1289.70	9723.54	1289.73	9725.31
GR	1289.8	9727.26	1289.78	9729.17	1289.79	9730.90	1289.64	9741.05	1289.63	9741.28
GR	1289.6	9742.32	1289.62	9743.51	1289.62	9744.46	1289.62	9745.05	1289.62	9746.32
GR	1289.6	9748.77	1289.62	9750.31	1289.62	9751.49	1289.61	9753.51	1289.61	9753.98
GR	1289.5	9765.06	1289.18	9828.07	1288.98	9835.75	1288.95	9837.73	1288.71	9844.88
GR	1288.7	9858.41	1288.75	9889.60	1288.75	9890.14	1288.74	9891.17	1288.63	9903.83
GR	1288.3	9962.97	1288.86	9970.79	1289.13	9975.03	1288.31	9990.17	1289.35	9996.65
GR	1289.5	9997.50	1289.60	9998.46	1289.56	10000.54	1287.91	10017.56	1287.81	10017.81
GR	1288.1	10039.84	1290.27	10053.03	1290.19	10061.21	1290.29	10066.22	1286.94	10079.20
GR	1286.7	10080.18	1286.56	10080.69	1286.36	10081.56	1285.58	10084.79	1285.75	10089.67
GR	1286.0	10099.97	1286.14	10103.93	1286.39	10112.92	1286.40	10113.38	1286.41	10114.19

BROWN ROAD

QT	2	130	330							
NC	0.02	0.02	0.02							
ET		7.1	7.1	7.1	7.1		9066.97	10078.19		
X1	20.963	27	9560.16	9708.11	120.00	270.00	270.00			
GR	1292.2	9066.97	1292.05	9103.92	1292.00	9174.43	1291.76	9214.92	1291.53	9275.00
GR	1291.2	9327.11	1291.01	9376.15	1291.01	9440.50	1290.67	9560.16	1290.50	9635.58
GR	1291.0	9708.11	1291.68	9829.44	1292.05	9870.22	1292.46	9950.46	1292.43	9968.83
GR	1292.4	9995.93	1292.47	9996.15	1292.14	9997.42	1292.10	10000.00	1291.95	10009.64
GR	1292.4	10030.13	1292.53	10035.34	1292.44	10038.08	1292.32	10066.73	1292.16	10075.46
GR	1292.0	10075.69	1292.38	10078.19						

NC	0.06	0.025	0.03							
ET		7.1	7.1	7.1	7.1		9022.06	10044.21		
X1	20.974	66	9829.16	9993.98	200.00	50.00	60.00			
GR	1293.4	9022.06	1293.30	9033.40	1293.11	9060.50	1292.94	9087.30	1292.79	9127.86
GR	1292.8	9137.37	1292.76	9141.20	1292.67	9150.17	1292.42	9195.09	1291.97	9240.34
GR	1291.9	9248.99	1291.72	9261.84	1291.42	9291.09	1291.35	9302.87	1291.20	9330.52
GR	1291.1	9356.77	1291.05	9367.95	1290.85	9395.75	1290.79	9406.39	1290.76	9410.67
GR	1290.5	9444.83	1290.28	9464.57	1290.11	9510.88	1290.08	9518.46	1290.00	9529.73
GR	1289.8	9560.13	1289.76	9572.36	1289.71	9598.56	1289.61	9626.25	1289.53	9637.00
GR	1289.5	9663.70	1289.41	9680.13	1289.95	9710.76	1290.01	9712.50	1290.00	9712.92
GR	1290.0	9715.84	1290.11	9725.22	1289.96	9727.23	1289.99	9733.62	1289.13	9787.93
GR	1289.1	9790.72	1289.05	9797.68	1288.74	9829.16	1288.69	9841.83	1288.63	9867.59
GR	1288.6	9895.73	1288.73	9922.27	1288.74	9925.83	1288.72	9938.78	1288.75	9942.47
GR	1289.5	9957.17	1292.05	9992.13	1292.34	9993.98	1292.19	9997.10	1292.19	10000.00
GR	1292.2	10012.60	1292.17	10013.74	1292.30	10014.64	1292.39	10016.19	1291.94	10017.12
GR	1292.4	10021.79	1292.54	10044.21	1292.50	10050.81	1292.12	10066.07	1292.28	10067.03
GR	1292.1	10067.44								

NH	4	0.06	9564.20	0.03	9649.51	0.03	10003.58	0.025	10099.02	
ET		7.1	7.1	7.1	7.1		9011.58	10003.58		
X1	21.020	93	9649.51	10003.58	265.00	245.00	245.00			
GR	1293.8	9011.58	1293.64	9046.44	1293.46	9068.68	1293.17	9097.56	1292.90	9125.80
GR	1292.7	9149.86	1292.36	9182.93	1292.10	9207.96	1291.72	9240.06	1291.68	9244.75
GR	1291.6	9253.24	1291.56	9281.55	1291.51	9297.19	1291.52	9318.35	1291.29	9354.31
GR	1291.3	9356.66	1290.87	9411.41	1290.55	9460.06	1290.53	9465.52	1290.50	9468.53
GR	1290.2	9502.32	1290.12	9525.66	1290.22	9540.17	1290.29	9552.37	1290.33	9564.20
GR	1290.1	9570.55	1290.02	9575.63	1289.89	9580.69	1289.85	9600.44	1289.97	9639.90
GR	1290.1	9649.51	1289.86	9666.91	1289.57	9686.31	1289.47	9697.03	1289.19	9723.11
GR	1289.1	9754.16	1288.98	9761.73	1288.97	9762.34	1288.97	9762.62	1288.97	9762.94

GR	1289.0	9770.29	1288.73	9811.26	1288.31	9823.36	1288.31	9824.38	1288.31	9824.93
GR	1288.3	9825.97	1288.30	9826.61	1288.30	9827.25	1288.30	9827.90	1288.29	9829.31
GR	1288.3	9830.01	1288.28	9830.76	1288.28	9831.56	1288.28	9832.98	1288.27	9833.87
GR	1288.2	9868.53	1288.20	9870.41	1288.18	9871.11	1288.22	9873.69	1288.28	9925.51
GR	1288.0	9937.99	1287.85	9948.04	1287.86	9948.46	1287.86	9949.16	1287.86	9949.64
GR	1287.9	9950.10	1287.87	9950.45	1287.87	9950.76	1287.87	9951.05	1287.88	9951.48
GR	1288.8	9977.15	1288.80	9977.70	1288.82	9978.20	1288.87	9979.16	1289.53	9986.88
GR	1290.9	10000.00	1291.18	10003.28	1291.26	10003.58	1291.12	10015.35	1291.08	10017.15
GR	1290.6	10018.86	1290.13	10020.72	1290.09	10025.33	1289.79	10053.87	1290.57	10055.59
GR	1291.5	10056.81	1291.26	10061.37	1290.77	10068.33	1290.75	10068.72	1290.69	10069.96
GR	1290.6	10070.62	1290.35	10074.00	1288.23	10099.02				
NH	4	0.06	9371.43	0.03	9776.85	0.03	10007.08	0.025	10086.22	
ET		7.1	7.1	7.1	7.1		9017.40	10022.22		
X1	21.088	91	9776.85	10007.08	360.00	360.00	360.00			
GR	1293.7	9017.40	1293.60	9041.20	1293.31	9077.73	1293.24	9091.00	1293.21	9098.33
GR	1293.1	9123.73	1292.93	9155.43	1292.66	9181.13	1292.43	9201.37	1292.40	9212.55
GR	1292.3	9238.16	1292.19	9269.68	1292.19	9284.51	1291.82	9326.81	1291.57	9341.94
GR	1291.7	9362.17	1291.29	9371.43	1291.18	9373.69	1291.23	9375.22	1291.20	9382.27
GR	1291.2	9387.93	1291.22	9422.15	1291.17	9441.06	1291.14	9458.95	1291.01	9491.36
GR	1291.0	9495.75	1290.99	9498.18	1290.96	9506.59	1290.79	9555.28	1290.79	9569.32
GR	1290.8	9594.76	1290.72	9606.12	1290.77	9612.40	1290.55	9634.16	1290.44	9669.52
GR	1290.0	9683.44	1290.00	9684.33	1289.99	9684.96	1289.93	9689.58	1289.90	9691.96
GR	1289.9	9693.71	1289.76	9699.13	1289.73	9701.29	1289.69	9705.45	1289.68	9706.75
GR	1289.4	9726.66	1289.04	9772.82	1288.99	9776.85	1288.84	9777.89	1288.64	9779.32
GR	1288.5	9780.09	1288.47	9780.53	1288.31	9781.75	1288.20	9782.54	1285.97	9797.58
GR	1285.8	9798.94	1285.59	9800.01	1285.46	9800.90	1285.24	9802.44	1284.94	9804.77
GR	1284.6	9806.84	1284.74	9810.54	1284.75	9813.38	1284.78	9815.41	1284.58	9840.91
GR	1284.1	9889.42	1284.06	9898.00	1284.07	9904.97	1284.27	9921.24	1284.48	9934.44
GR	1284.7	9949.75	1289.24	9979.62	1289.50	9981.35	1289.70	9984.65	1289.75	9985.57
GR	1290.8	10000.00	1291.33	10007.08	1291.37	10011.24	1291.37	10021.19	1291.36	10021.79
GR	1291.2	10022.22	1289.27	10026.97	1289.65	10046.15	1289.82	10059.73	1290.34	10060.61
GR	1290.9	10062.37	1291.01	10065.66	1291.06	10069.89	1291.05	10075.92	1289.57	10081.51
GR	1288.3	10086.22								
NC	0.03	0.025	0.03							
ET		7.1	7.1	7.1	7.1		9022.85	10025.70		
X1	21.137	85	9901.87	10011.60	260.00	260.00	260.00			
GR	1294.1	9022.85	1293.85	9031.37	1293.71	9055.57	1293.50	9068.94	1293.23	9092.36
GR	1292.9	9126.07	1292.79	9134.75	1292.66	9183.19	1293.18	9199.18	1293.14	9213.33
GR	1292.5	9223.50	1292.48	9223.98	1292.48	9224.72	1292.36	9240.32	1292.35	9242.96
GR	1292.1	9297.44	1291.84	9341.58	1291.77	9354.54	1291.53	9386.72	1291.51	9411.66
GR	1291.5	9445.00	1291.53	9460.32	1291.49	9468.78	1291.44	9498.13	1291.44	9525.91
GR	1291.4	9548.41	1291.36	9583.04	1291.12	9625.81	1291.07	9640.17	1290.80	9650.54
GR	1290.7	9652.15	1290.71	9653.40	1290.66	9654.80	1290.61	9656.68	1290.51	9659.80
GR	1290.4	9663.98	1290.20	9671.23	1289.82	9684.96	1289.80	9686.27	1289.87	9687.08
GR	1290.0	9697.27	1289.39	9753.38	1289.38	9754.39	1289.38	9755.49	1289.39	9755.80
GR	1289.4	9756.40	1289.41	9760.15	1289.61	9793.47	1289.58	9796.21	1289.54	9800.97
GR	1289.4	9811.51	1290.05	9858.63	1290.15	9865.08	1290.07	9868.64	1290.86	9901.87
GR	1290.1	9925.76	1289.28	9962.06	1289.57	9983.40	1289.57	9983.93	1289.57	9984.66
GR	1289.6	9986.06	1289.61	9988.95	1289.64	9995.19	1290.06	10000.00	1290.52	10005.39
GR	1290.7	10007.89	1290.81	10008.79	1290.84	10009.16	1290.87	10009.44	1290.95	10010.85
GR	1291.1	10011.60	1291.09	10012.69	1291.32	10023.76	1291.43	10025.70	1290.06	10028.85
GR	1289.5	10030.18	1289.67	10059.16	1289.67	10062.21	1290.05	10063.20	1290.72	10064.82

GR	1290.8	10066.01	1291.13	10075.33	1288.74	10086.76	1288.46	10088.15	1288.41	10088.97
ET		7.1	7.1	7.1	7.1		9011.96	10018.43		
X1	21.196	90	9925.89	10007.46	310.00	310.00	310.00			
GR	1295.5	9011.96	1295.46	9034.54	1295.37	9069.06	1295.38	9070.33	1295.38	9070.89
GR	1295.4	9071.15	1295.39	9071.57	1295.39	9072.21	1295.40	9073.02	1295.41	9074.51
GR	1295.4	9079.14	1295.49	9086.56	1295.23	9093.83	1294.85	9104.38	1294.66	9109.88
GR	1294.2	9121.94	1294.20	9122.52	1294.15	9123.96	1294.10	9127.11	1293.57	9159.56
GR	1293.5	9166.04	1293.50	9166.32	1293.51	9166.74	1293.52	9167.36	1293.53	9168.15
GR	1293.5	9169.32	1293.55	9172.43	1293.55	9175.21	1293.54	9179.57	1293.53	9187.26
GR	1293.6	9187.91	1293.60	9188.49	1293.62	9188.93	1293.64	9189.60	1293.62	9189.93
GR	1293.6	9191.12	1293.61	9191.41	1293.81	9194.73	1293.86	9195.51	1293.90	9195.92
GR	1294.1	9197.85	1294.10	9225.28	1294.10	9304.57	1293.74	9313.63	1293.65	9315.96
GR	1293.7	9325.09	1293.65	9346.08	1293.65	9350.85	1293.47	9363.33	1291.51	9468.93
GR	1291.5	9489.12	1291.77	9526.05	1291.94	9571.65	1291.98	9583.17	1291.94	9592.51
GR	1291.6	9623.29	1291.48	9640.27	1290.21	9681.52	1289.86	9690.62	1289.68	9695.12
GR	1289.7	9698.32	1289.75	9702.59	1289.77	9705.52	1289.81	9714.71	1289.90	9730.45
GR	1289.9	9733.20	1289.91	9737.52	1289.92	9743.16	1289.84	9755.80	1289.91	9759.74
GR	1289.9	9761.45	1289.89	9761.68	1289.98	9763.58	1291.52	9799.37	1292.06	9811.65
GR	1292.7	9826.80	1293.86	9868.77	1294.10	9874.99	1294.44	9883.46	1293.94	9899.50
GR	1293.3	9917.66	1292.89	9925.89	1288.94	9965.64	1289.57	9978.07	1290.88	10000.00
GR	1291.3	10007.46	1291.33	10011.74	1291.38	10018.43	1290.82	10020.43	1289.82	10024.78
ET		7.1	7.1	7.1	7.1		9000.51	10011.33		
X1	21.256	83	9866.98	10003.69	315.00	315.00	315.00			
GR	1293.9	9000.51	1293.61	9008.73	1293.33	9017.27	1293.29	9018.23	1293.40	9019.86
GR	1293.5	9022.30	1293.70	9024.31	1293.77	9025.85	1293.83	9026.85	1293.87	9027.55
GR	1293.9	9028.35	1293.93	9028.81	1293.95	9029.16	1294.01	9030.34	1294.03	9030.70
GR	1294.0	9031.22	1294.10	9032.26	1294.10	9036.98	1294.10	9066.41	1294.10	9136.37
GR	1294.0	9139.24	1293.65	9152.04	1293.65	9188.82	1293.65	9195.20	1293.41	9218.30
GR	1292.8	9267.06	1292.57	9296.20	1292.49	9309.36	1292.38	9326.84	1292.27	9346.23
GR	1292.2	9356.75	1292.02	9392.04	1291.90	9413.61	1291.85	9420.01	1291.79	9431.85
GR	1291.6	9456.90	1291.59	9470.47	1291.67	9493.79	1291.97	9527.34	1291.98	9530.68
GR	1291.9	9536.86	1291.73	9567.58	1291.66	9584.19	1291.54	9607.63	1291.54	9612.04
GR	1292.7	9636.91	1292.81	9639.79	1292.84	9640.39	1292.85	9640.77	1292.86	9641.13
GR	1292.9	9641.93	1292.65	9697.90	1291.61	9739.36	1291.55	9742.90	1291.45	9747.41
GR	1291.4	9750.84	1291.46	9753.47	1291.66	9758.23	1291.81	9762.17	1292.96	9788.88
GR	1292.9	9811.58	1292.71	9825.78	1292.43	9851.97	1292.27	9866.98	1290.41	9885.81
GR	1289.8	9891.53	1288.77	9902.18	1288.76	9905.60	1288.76	9925.31	1289.50	9950.26
GR	1291.6	10000.00	1291.74	10003.69	1291.76	10011.33	1291.74	10015.79	1290.12	10022.06
GR	1290.1	10022.56	1289.53	10053.84	1290.74	10062.47	1291.27	10067.81	1289.89	10074.37
GR	1288.3	10081.38	1288.13	10085.96	1287.63	10097.97				
ET		7.1	7.1	7.1	7.1		9019.74	10002.22		
X1	21.315	95	9905.73	10002.22	310.00	310.00	310.00			
GR	1293.9	9019.74	1293.87	9032.73	1293.63	9056.25	1293.83	9076.47	1293.83	9077.01
GR	1294.7	9153.13	1294.73	9156.51	1294.74	9157.20	1294.85	9164.73	1294.87	9165.98
GR	1294.8	9171.13	1294.61	9179.10	1294.54	9182.97	1294.50	9186.22	1294.47	9188.38
GR	1293.9	9208.03	1293.88	9208.90	1293.22	9238.91	1293.21	9239.88	1293.18	9241.37
GR	1293.2	9243.58	1293.13	9244.39	1293.10	9244.98	1293.08	9245.56	1293.06	9246.23
GR	1293.0	9249.56	1292.96	9250.27	1292.95	9250.97	1292.94	9251.61	1292.64	9269.31
GR	1292.6	9290.95	1292.50	9302.65	1292.13	9342.00	1291.97	9359.52	1291.89	9374.36
GR	1291.6	9416.38	1291.28	9466.03	1291.23	9473.23	1291.22	9475.37	1291.22	9479.33
GR	1291.3	9512.26	1291.30	9530.07	1291.17	9584.38	1291.16	9586.04	1291.16	9586.93

GR	1290.8	9622.94	1290.81	9643.80	1290.85	9659.84	1291.73	9689.46	1291.92	9697.05
GR	1291.9	9700.67	1291.74	9708.52	1291.72	9710.04	1291.69	9711.59	1291.66	9713.43
GR	1291.6	9715.47	1291.56	9719.49	1291.53	9722.08	1291.51	9725.68	1291.49	9732.07
GR	1291.4	9745.88	1291.31	9751.20	1291.32	9751.52	1291.70	9757.19	1291.91	9760.41
GR	1292.2	9764.98	1292.78	9773.40	1292.69	9782.49	1292.65	9787.62	1292.63	9791.18
GR	1292.6	9794.09	1292.58	9796.42	1292.53	9807.37	1292.62	9814.49	1292.59	9822.14
GR	1292.1	9869.93	1291.81	9899.55	1291.78	9900.23	1291.77	9902.16	1291.78	9903.25
GR	1291.7	9905.73	1291.54	9910.06	1291.42	9911.81	1291.27	9913.57	1291.16	9915.83
GR	1291.2	9916.19	1290.48	9925.99	1289.59	9940.05	1289.81	9948.39	1290.06	9956.95
GR	1290.2	9962.09	1291.20	9998.91	1291.23	10000.00	1291.31	10002.22	1291.28	10007.47
NC	0.03	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9010.97	10001.86		
X1	21.375	95	9716.69	10001.86	315.00	315.00	315.00			
GR	1295.3	9010.97	1295.23	9018.44	1294.80	9049.53	1294.86	9070.72	1295.27	9087.71
GR	1295.3	9088.71	1295.40	9090.59	1295.50	9093.64	1295.55	9095.26	1295.17	9104.43
GR	1294.3	9124.60	1294.27	9125.02	1293.98	9132.26	1294.01	9158.88	1293.88	9189.11
GR	1293.8	9198.95	1293.78	9217.02	1293.83	9231.54	1293.83	9232.04	1293.85	9232.61
GR	1294.4	9249.06	1294.41	9251.24	1294.43	9253.56	1294.45	9254.07	1294.45	9254.55
GR	1293.0	9289.13	1292.99	9290.98	1293.00	9291.51	1293.00	9293.47	1292.99	9294.86
GR	1293.0	9296.20	1292.95	9297.36	1292.96	9298.48	1292.95	9299.64	1292.87	9301.34
GR	1292.8	9302.40	1292.76	9303.29	1292.73	9304.02	1292.70	9304.64	1292.66	9305.29
GR	1292.6	9305.92	1292.61	9306.51	1292.58	9307.02	1292.55	9307.52	1292.51	9308.39
GR	1292.5	9309.01	1292.46	9309.70	1292.43	9310.34	1292.41	9310.94	1292.40	9311.52
GR	1291.9	9322.10	1291.84	9362.85	1291.96	9384.69	1291.86	9416.42	1291.95	9420.16
GR	1292.0	9420.85	1291.97	9421.56	1291.97	9422.67	1291.98	9424.05	1292.00	9425.22
GR	1292.0	9426.27	1292.02	9427.52	1292.04	9429.16	1292.06	9430.10	1292.00	9434.47
GR	1291.9	9440.42	1291.85	9446.96	1291.80	9450.22	1291.60	9473.27	1291.51	9495.34
GR	1291.3	9530.11	1291.23	9536.13	1290.98	9569.12	1290.94	9586.98	1290.87	9606.02
GR	1290.7	9641.17	1290.67	9642.91	1290.67	9643.86	1290.65	9647.04	1290.33	9700.72
GR	1290.3	9716.69	1289.98	9746.22	1289.87	9757.57	1289.84	9770.95	1289.74	9814.41
GR	1289.5	9851.22	1289.44	9864.22	1289.42	9871.26	1289.20	9901.11	1289.06	9928.13
GR	1289.8	9957.64	1291.23	10000.00	1291.29	10001.86	1291.27	10008.37	1291.25	10012.96
ET		7.1	7.1	7.1	7.1		9006.11	10015.26		
X1	21.432	53	9757.49	10000.0	320.00	300.00	300.00			
GR	1294.6	9006.11	1294.33	9032.63	1294.12	9063.75	1294.11	9068.09	1294.09	9071.80
GR	1294.1	9103.57	1293.99	9137.51	1293.97	9139.04	1293.96	9140.84	1293.55	9203.20
GR	1293.4	9217.92	1293.19	9270.04	1293.17	9278.56	1293.20	9286.97	1292.97	9335.67
GR	1292.8	9351.84	1292.61	9372.08	1292.43	9400.27	1292.17	9449.17	1292.11	9458.23
GR	1292.1	9465.96	1291.86	9493.71	1291.54	9526.25	1291.51	9531.68	1291.27	9563.02
GR	1291.0	9597.38	1291.01	9600.12	1290.99	9603.34	1290.47	9663.05	1290.29	9680.39
GR	1290.1	9706.50	1290.03	9728.74	1290.03	9757.49	1289.70	9794.44	1289.51	9826.70
GR	1289.6	9859.34	1289.24	9911.65	1289.17	9919.31	1289.65	9939.45	1290.94	9988.69
GR	1291.1	10000.00	1291.25	10006.17	1291.45	10011.81	1291.49	10015.26	1291.07	10024.66
GR	1289.7	10035.78	1289.55	10059.46	1291.08	10060.46	1291.61	10066.87	1291.53	10068.83
GR	1290.5	10075.03	1289.92	10084.88	1288.55	10099.00				
NC	0.031	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9026.10	10008.81		

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X1   21.463      51   9951.10  10008.81    165.00    165.00    165.00
GR   1294.2  9026.10   1294.06   9062.58   1293.98   9081.26   1293.92   9103.16   1293.83   9128.28
GR   1293.7  9152.20   1293.43   9180.30   1293.35   9187.68   1293.31   9193.96   1293.06   9257.35
GR   1293.1  9259.66   1292.97   9272.99   1292.64   9325.35   1292.58   9334.42   1292.30   9365.00
GR   1292.3  9391.06   1292.25   9400.47   1292.19   9411.53   1291.99   9435.00   1291.87   9456.74
GR   1291.6  9488.63   1291.19   9522.43   1290.89   9565.68   1290.84   9588.12   1290.58   9642.77
GR   1290.5  9648.74   1290.50   9653.83   1290.37   9684.21   1290.22   9719.85   1289.89   9785.21
GR   1289.9  9790.61   1290.07   9796.95   1290.49   9813.62   1291.69   9874.01   1292.03   9889.76
GR   1292.1  9916.61   1291.66   9951.10   1291.67   9982.93   1291.77   9995.48   1291.78  10000.00
GR   1291.8 10003.55   1291.71  10008.81   1291.06  10011.01   1289.69  10015.11   1289.75  10042.97
GR   1289.8 10044.71   1290.09  10045.05   1290.66  10050.24   1292.73  10067.09   1292.93  10078.74
GR   1292.6 10086.23
  LINDSAY ROAD

QT       2        1         1
NC    0.02     0.02      0.02
ET              7.1       7.1       7.1       7.1            9017.86  10072.56
X1   21.492       17   9551.94   9729.36    400.00    140.00    150.00
GR   1292.8  9017.86   1292.47   9107.80   1292.50   9160.97   1292.29   9268.16   1291.94   9330.54
GR   1291.7  9408.98   1291.41   9500.23   1291.42   9551.94   1291.23   9650.56   1291.65   9729.36
GR   1292.4  9805.02   1293.28   9886.61   1293.51   9964.52   1293.30   9986.85   1293.37  10000.00
GR   1293.6 10043.74   1293.49  10072.56

NH       5     0.03   9445.85      0.02   9538.78      0.06   9959.68     0.035   9995.83     0.025
NH   10099
ET              7.1       7.1       7.1       7.1            9001.56  10010.59
X1   21.603       94   9959.68   9995.83    450.00    630.00    590.00
GR   1294.2  9001.56   1294.15   9031.98   1294.14   9037.05   1294.06   9043.08   1293.73   9097.30
GR   1293.6  9120.74   1293.21   9143.50   1292.97   9162.65   1292.76   9198.39   1292.67   9228.01
GR   1292.6  9249.96   1292.50   9276.06   1292.49   9285.45   1292.43   9293.36   1292.36   9320.94
GR   1291.8  9353.70   1291.81   9356.42   1291.79   9358.72   1291.89   9385.39   1292.04   9424.05
GR   1292.0  9445.85   1292.08   9452.26   1292.11   9457.30   1292.56   9495.90   1292.14   9527.57
GR   1291.9  9538.78   1291.89   9542.55   1291.75   9547.10   1291.67   9554.75   1291.35   9569.33
GR   1291.0  9586.65   1290.77   9604.82   1290.46   9620.11   1290.05   9675.80   1290.06   9685.45
GR   1290.1  9716.22   1290.08   9717.70   1290.08   9719.95   1290.09   9722.48   1290.09   9726.05
GR   1290.1  9739.67   1290.10   9741.21   1290.10   9741.80   1290.10   9742.82   1290.15   9744.07
GR   1290.2  9744.79   1290.23   9746.30   1290.25   9746.63   1290.19   9764.13   1290.10   9776.58
GR   1289.8  9793.49   1289.67   9804.10   1289.63   9806.55   1289.47   9816.15   1289.46   9819.61
GR   1289.5  9853.22   1289.24   9881.49   1289.22   9888.71   1288.96   9946.85   1288.92   9959.68
GR   1288.7  9969.21   1288.28   9977.41   1289.53   9987.45   1289.88   9993.00   1290.28   9993.98
GR   1290.5  9995.83   1290.51  10000.00   1290.60  10010.59   1290.59  10011.03   1290.58  10011.77
GR   1289.3 10016.34   1289.37  10033.26   1289.35  10046.21   1290.60  10048.76   1291.43  10050.37
GR   1291.5 10052.11   1291.29  10054.24   1291.00  10063.60   1290.23  10066.31   1289.52  10071.71
GR   1289.5 10072.31   1289.43  10072.62   1289.37  10073.23   1289.15  10075.34   1288.86  10078.06
GR   1288.8 10078.79   1288.69  10086.73   1288.65  10089.19   1288.63  10090.28   1288.62  10090.90
GR   1288.6 10091.28   1288.61  10093.06   1288.59  10093.88   1288.59  10099.00

NH       5     0.03   9172.65      0.02   9261.41      0.06   9934.74     0.035   9997.97     0.025
NH   10081
ET              7.1       7.1       7.1       7.1            9019.66   9997.97
```

X1	21.665	70	9934.74	9997.97	325.00	325.00	325.00			
GR	1294.6	9019.86	1294.60	9029.52	1294.65	9085.21	1294.60	9100.50	1294.65	9118.68
GR	1294.5	9150.56	1293.97	9170.43	1293.92	9172.65	1293.92	9174.32	1294.06	9190.57
GR	1294.3	9218.63	1294.25	9221.02	1293.93	9234.67	1293.27	9261.41	1293.33	9266.52
GR	1293.7	9281.26	1293.27	9319.82	1292.99	9346.59	1292.90	9351.63	1292.43	9411.95
GR	1292.4	9419.87	1292.30	9429.29	1291.96	9455.36	1291.93	9477.29	1291.91	9490.85
GR	1291.7	9506.96	1291.60	9526.34	1291.64	9542.65	1291.90	9561.83	1291.58	9584.60
GR	1291.5	9608.00	1291.27	9662.26	1291.21	9668.27	1290.73	9732.28	1290.69	9738.69
GR	1290.7	9739.90	1290.89	9774.73	1290.70	9804.05	1290.69	9810.22	1290.78	9817.55
GR	1290.8	9845.71	1290.03	9895.21	1289.76	9916.68	1289.81	9934.74	1289.40	9970.90
GR	1289.1	9984.53	1289.19	9984.82	1289.64	9988.46	1289.54	9991.38	1291.04	9997.97
GR	1291.0	10000.00	1290.99	10003.23	1290.95	10013.91	1290.13	10016.90	1289.48	10019.63
GR	1289.6	10030.61	1289.75	10048.48	1290.84	10050.16	1292.36	10052.97	1292.35	10058.63
GR	1292.3	10060.33	1291.93	10066.27	1291.90	10066.82	1290.45	10077.44	1290.33	10078.17
GR	1290.3	10078.44	1290.14	10079.25	1290.04	10079.82	1289.92	10080.64	1289.79	10081.00
NH	4	0.02	9031.43	0.06	9943.65	0.035	10000.00	0.025	10015.34	
ET		7.1	7.1	7.1	7.1		9005.04	10015.34		
X1	21.716	95	9943.65	10000.00	270.00	270.00	270.00			
GR	1295.1	9005.04	1294.87	9031.43	1295.09	9053.34	1295.08	9054.06	1294.51	9088.26
GR	1294.4	9119.37	1294.26	9159.23	1294.40	9184.74	1294.41	9206.55	1293.88	9228.64
GR	1293.8	9230.53	1293.80	9232.84	1293.74	9235.30	1293.67	9237.98	1293.59	9240.76
GR	1293.6	9241.68	1293.59	9247.14	1293.62	9251.65	1293.62	9255.14	1293.62	9259.19
GR	1293.6	9260.89	1293.63	9262.41	1293.63	9263.84	1293.63	9265.28	1293.43	9284.21
GR	1293.5	9301.17	1293.56	9315.44	1293.71	9336.66	1293.86	9361.88	1293.64	9380.80
GR	1293.3	9407.64	1292.70	9439.52	1292.61	9446.15	1292.40	9481.25	1292.23	9511.47
GR	1292.2	9517.18	1292.27	9549.57	1292.02	9576.83	1291.95	9585.06	1291.97	9594.83
GR	1291.9	9642.19	1291.71	9656.03	1291.61	9672.49	1291.43	9691.52	1291.33	9707.53
GR	1291.3	9750.16	1291.41	9772.88	1291.06	9827.78	1290.95	9838.22	1290.58	9857.95
GR	1290.5	9861.42	1290.54	9861.80	1290.72	9863.44	1290.88	9865.25	1290.98	9866.15
GR	1291.1	9867.94	1291.27	9869.53	1291.41	9871.74	1291.50	9872.95	1291.54	9873.77
GR	1291.6	9874.35	1291.64	9875.41	1291.64	9875.94	1291.76	9877.32	1291.78	9877.91
GR	1292.2	9881.97	1292.23	9882.63	1292.23	9885.08	1292.29	9888.45	1292.40	9891.59
GR	1292.4	9904.09	1292.44	9904.37	1292.44	9904.91	1292.49	9906.07	1292.53	9906.49
GR	1292.6	9908.09	1292.67	9909.68	1293.50	9928.18	1293.11	9929.88	1289.92	9943.65
GR	1289.8	9948.06	1289.76	9953.21	1289.70	9956.08	1289.64	9958.08	1289.60	9961.12
GR	1289.6	9963.28	1289.57	9968.93	1289.47	9975.41	1288.88	9983.76	1288.80	9985.34
GR	1290.2	9994.56	1290.87	9998.91	1291.01	10000.00	1291.15	10001.09	1291.25	10015.34
NC	0.06	0.025	0.035							
ET		7.1	7.1	7.1	7.1		9025.40	9975.57		
X1	21.774	74	9975.57	10008.72	305.00	305.00	305.00			
GR	1295.2	9025.40	1295.00	9058.77	1294.99	9079.02	1294.93	9103.07	1294.84	9114.50
GR	1294.8	9124.12	1294.63	9149.99	1294.57	9180.73	1294.50	9189.48	1294.28	9236.02
GR	1294.2	9254.84	1294.17	9256.45	1294.15	9258.37	1293.88	9291.93	1293.87	9320.16
GR	1293.8	9336.04	1293.13	9385.52	1292.81	9413.68	1292.81	9433.87	1292.95	9491.35
GR	1292.8	9504.85	1292.70	9516.21	1292.17	9556.75	1292.04	9569.01	1291.96	9581.57
GR	1291.8	9646.65	1291.77	9646.93	1291.75	9648.40	1290.81	9712.25	1290.68	9724.31
GR	1290.4	9753.25	1290.36	9777.61	1290.33	9788.74	1290.22	9801.96	1290.09	9824.23
GR	1290.1	9842.97	1289.96	9859.71	1290.03	9879.63	1289.99	9895.20	1289.94	9908.30
GR	1290.0	9957.28	1290.01	9971.10	1290.01	9972.07	1290.00	9973.92	1289.99	9975.57
GR	1289.7	9978.23	1289.34	9980.87	1289.22	9981.88	1289.16	9982.43	1289.04	9983.43
GR	1288.9	9984.70	1288.85	9985.06	1288.81	9985.37	1288.87	9985.76	1289.12	9987.90
GR	1290.7	10000.00	1290.91	10001.45	1290.99	10002.48	1291.25	10008.72	1291.28	10015.30

GR	1289.9	10017.76	1288.77	10019.74	1288.96	10027.82	1289.41	10049.33	1290.54	10050.92
GR	1291.7	10052.72	1291.53	10063.19	1291.50	10068.43	1291.02	10072.09	1290.34	10083.03
GR	1290.2	10083.77	1289.95	10091.25	1289.74	10096.91	1289.65	10099.40		
NH	4	0.06	9894.63	0.15	9978.28	0.035	9999.40	0.025	10074.62	
ET		7.1	7.1	7.1	7.1		9000.01	9999.40		
X1	21.819	90	9978.28	9999.40	240.00	240.00	240.00			
GR	1295.0	9000.01	1294.56	9052.87	1294.31	9077.65	1294.01	9118.22	1293.99	9135.16
GR	1294.0	9155.30	1294.00	9170.64	1294.06	9183.55	1293.93	9232.96	1293.88	9241.62
GR	1293.8	9248.91	1293.69	9310.61	1293.66	9314.27	1293.34	9348.08	1292.78	9379.61
GR	1292.7	9388.29	1292.57	9444.95	1292.47	9465.91	1292.21	9510.30	1292.06	9525.50
GR	1292.0	9543.58	1292.05	9560.99	1291.68	9575.64	1290.81	9621.24	1290.70	9641.00
GR	1290.8	9698.89	1290.72	9706.36	1290.53	9745.90	1290.42	9771.68	1290.40	9776.55
GR	1290.3	9809.39	1290.31	9837.03	1290.45	9847.07	1290.47	9848.62	1290.48	9850.11
GR	1290.5	9851.87	1290.52	9853.88	1290.53	9855.76	1290.55	9857.85	1290.57	9860.09
GR	1290.6	9863.09	1290.63	9867.89	1290.69	9875.25	1290.82	9894.63	1290.94	9901.85
GR	1290.9	9902.56	1290.00	9907.49	1289.42	9910.42	1288.53	9914.94	1288.29	9916.11
GR	1287.7	9919.20	1287.61	9926.04	1287.56	9930.45	1287.47	9937.20	1288.93	9952.66
GR	1289.0	9953.75	1289.06	9954.51	1289.08	9955.82	1289.33	9967.62	1289.54	9978.28
GR	1289.4	9978.93	1289.23	9980.37	1289.14	9981.07	1288.46	9985.35	1288.48	9985.87
GR	1289.8	9991.99	1290.57	9995.88	1291.53	9999.40	1291.51	10000.00	1291.42	10005.19
GR	1291.3	10014.49	1290.92	10017.14	1289.71	10018.85	1288.63	10021.15	1289.41	10042.74
GR	1289.7	10051.18	1290.50	10052.53	1291.49	10054.45	1291.77	10055.65	1291.79	10057.79
GR	1291.8	10066.51	1291.70	10067.75	1291.34	10070.72	1291.30	10071.12	1291.22	10071.80
GR	1291.2	10072.23	1291.11	10072.76	1291.04	10073.32	1290.95	10073.91	1290.85	10074.62
NH	4	0.03	9715.48	0.15	9965.17	0.035	10001.22	0.025	10097.89	
ET		7.1	7.1	7.1	7.1		9006.83	10001.22		
X1	21.859	78	9965.17	10001.22	205.00	205.00	205.00			
GR	1295.0	9006.83	1294.98	9011.28	1294.96	9016.56	1294.43	9046.77	1294.20	9072.17
GR	1293.9	9094.24	1293.75	9137.53	1293.69	9171.87	1293.77	9202.88	1293.75	9224.20
GR	1293.2	9249.54	1292.87	9259.69	1292.18	9327.20	1292.16	9333.59	1292.04	9367.57
GR	1292.0	9398.95	1291.95	9401.64	1291.96	9404.85	1291.80	9464.27	1291.70	9482.51
GR	1291.9	9508.09	1291.74	9529.62	1291.76	9560.15	1291.58	9579.06	1291.19	9594.97
GR	1290.8	9614.56	1291.07	9637.83	1291.13	9660.32	1290.90	9697.09	1290.92	9700.53
GR	1290.8	9715.48	1291.13	9727.38	1291.30	9728.83	1291.34	9733.21	1291.37	9736.94
GR	1291.4	9741.16	1291.41	9745.74	1291.49	9750.48	1291.68	9769.41	1291.83	9782.12
GR	1291.9	9787.83	1291.95	9792.51	1291.99	9796.51	1292.62	9827.46	1292.34	9856.36
GR	1292.3	9862.95	1291.96	9867.13	1291.92	9867.95	1290.10	9961.35	1290.22	9963.36
GR	1290.3	9964.36	1290.35	9965.17	1290.33	9965.62	1290.28	9966.07	1290.24	9966.72
GR	1289.1	9977.74	1288.62	9988.74	1291.28	9999.30	1291.50	10000.00	1291.50	10000.60
GR	1291.5	10001.22	1291.36	10008.00	1291.29	10017.13	1290.47	10018.94	1288.61	10022.36
GR	1289.6	10048.58	1289.66	10051.99	1289.98	10052.43	1291.51	10055.44	1291.28	10063.46
GR	1291.2	10066.78	1291.09	10067.18	1290.56	10071.05	1289.87	10081.37	1289.83	10081.78
GR	1289.7	10085.58	1289.46	10093.66	1289.33	10097.89				
NH	4	0.04	9462.14	0.15	9977.06	0.035	10001.79	0.025	10082.82	
ET		7.1	7.1	7.1	7.1		9017.30	10001.79		
X1	21.914	70	9977.06	10001.79	290.00	290.00	290.00			
GR	1294.3	9017.30	1293.85	9059.14	1293.86	9072.04	1293.86	9083.07	1293.75	9107.51
GR	1293.9	9136.07	1293.71	9148.87	1292.94	9213.00	1292.94	9214.67	1292.76	9249.36
GR	1292.3	9280.46	1292.25	9284.84	1292.20	9289.95	1292.27	9346.24	1292.30	9366.86
GR	1292.0	9391.20	1291.77	9412.03	1291.67	9426.67	1291.60	9443.79	1291.66	9462.14
GR	1291.9	9477.83	1291.96	9497.61	1292.08	9520.74	1291.99	9543.64	1292.08	9577.74

GR	1292.3	9597.68	1292.10	9673.96	1292.10	9674.67	1292.10	9675.17	1292.07	9678.16
GR	1291.5	9741.00	1291.54	9745.85	1291.54	9751.53	1291.61	9806.78	1291.61	9828.48
GR	1291.9	9887.72	1291.72	9905.40	1290.58	9938.38	1289.33	9977.06	1289.33	9978.09
GR	1289.3	9979.60	1289.36	9983.20	1289.21	9983.71	1288.32	9986.67	1287.99	9987.88
GR	1287.8	9988.40	1287.69	9988.77	1287.86	9989.32	1288.08	9989.79	1289.41	9993.25
GR	1290.1	9995.89	1290.12	9997.19	1290.18	9997.47	1290.90	10000.00	1291.06	10000.59
GR	1291.2	10001.79	1291.10	10006.40	1290.95	10017.22	1288.93	10021.35	1288.59	10022.09
GR	1288.6	10026.15	1289.37	10051.69	1290.80	10054.63	1291.00	10055.06	1291.09	10055.98
GR	1291.1	10065.40	1290.99	10066.26	1290.95	10066.63	1290.84	10067.60	1289.20	10082.82
NH	4	0.04	9286.25	0.14	9952.57	0.035	10004.09	0.025	10099.65	
ET		7.1	7.1	7.1	7.1		9021.44	10017.58		
X1	21.963	75	9952.57	10004.09	260.00	260.00	260.00			
GR	1294.7	9021.44	1294.41	9055.45	1294.37	9058.12	1294.24	9073.87	1293.81	9123.90
GR	1293.8	9132.38	1293.49	9163.27	1293.20	9189.69	1293.19	9200.32	1293.36	9245.86
GR	1292.3	9252.63	1291.91	9269.66	1292.04	9286.25	1292.12	9321.28	1291.93	9363.18
GR	1292.0	9422.13	1292.10	9440.08	1292.08	9452.84	1291.20	9517.04	1291.19	9517.89
GR	1291.2	9518.63	1291.26	9528.04	1291.80	9584.43	1291.78	9590.44	1291.78	9593.96
GR	1291.8	9607.38	1291.84	9695.21	1291.75	9716.00	1291.20	9738.59	1290.41	9772.54
GR	1290.3	9778.96	1290.17	9782.07	1290.18	9783.49	1290.41	9796.07	1290.46	9800.89
GR	1290.4	9809.08	1290.07	9857.39	1290.22	9872.54	1289.91	9896.73	1289.40	9937.41
GR	1289.4	9952.57	1289.29	9960.94	1289.15	9977.62	1289.14	9978.63	1288.97	9978.99
GR	1288.9	9981.02	1288.62	9988.47	1288.35	9990.35	1288.07	9992.52	1288.55	9993.88
GR	1288.7	9994.25	1288.81	9994.75	1289.37	9996.39	1289.52	9996.71	1289.63	9997.05
GR	1289.7	9997.61	1289.94	9998.63	1290.18	10000.00	1290.91	10004.09	1291.00	10010.42
GR	1291.1	10017.58	1290.58	10018.81	1289.06	10021.67	1289.18	10031.71	1289.18	10049.87
GR	1290.2	10051.98	1290.97	10053.61	1291.46	10054.44	1290.88	10059.27	1290.79	10064.84
GR	1289.6	10079.25	1289.52	10080.41	1289.47	10081.04	1289.42	10088.44	1289.34	10099.65
NH	4	0.04	9077.97	0.13	9938.60	0.035	10002.82	0.025	10078.14	
ET		7.1	7.1	7.1	7.1		9010.69	10013.57		
X1	22.014	73	9938.60	10002.82	270.0	270.0	270.0			
GR	1295.1	9010.69	1295.15	9011.52	1295.16	9013.12	1294.43	9027.88	1294.37	9049.62
GR	1294.3	9077.97	1294.20	9090.39	1293.80	9140.38	1293.58	9170.48	1293.59	9184.36
GR	1293.1	9287.61	1293.14	9319.20	1293.16	9329.26	1293.05	9353.34	1292.90	9388.81
GR	1292.7	9425.38	1292.47	9452.09	1292.35	9469.37	1292.06	9516.50	1291.92	9548.88
GR	1292.0	9562.10	1291.78	9576.27	1291.77	9612.97	1291.75	9616.70	1291.57	9645.37
GR	1291.3	9674.91	1291.23	9690.02	1291.30	9712.16	1291.15	9726.42	1291.20	9732.44
GR	1291.2	9738.31	1291.19	9747.70	1291.16	9748.99	1290.93	9756.89	1290.92	9763.24
GR	1290.8	9775.84	1290.81	9786.84	1290.59	9814.48	1290.42	9832.85	1290.26	9856.96
GR	1290.2	9886.39	1290.15	9892.56	1290.11	9926.29	1290.13	9928.90	1290.20	9938.60
GR	1290.1	9949.42	1290.01	9951.18	1289.95	9955.68	1289.56	9969.18	1289.52	9973.73
GR	1289.6	9976.11	1289.32	9978.67	1288.52	9990.52	1289.03	9994.54	1289.09	9995.11
GR	1289.3	9995.81	1290.86	10000.00	1291.90	10002.82	1291.91	10007.98	1291.93	10013.57
GR	1290.8	10016.19	1289.09	10020.11	1289.12	10039.73	1289.23	10048.77	1291.97	10051.84
GR	1292.0	10052.25	1291.86	10056.43	1291.84	10057.09	1291.64	10062.03	1290.62	10068.88
GR	1289.8	10073.65	1288.85	10077.77	1288.84	10078.14				
NH	5	0.03	9124.71	0.02	9236.22	0.12	9907.40	0.035	9993.2	0.025
NH	10096									
ET		7.1	7.1	7.1	7.1		9000.75	9993.20		

X1	22.063	95	9907.40	9993.20	265.00	260.00	260.00			
GR	1295.0	9000.75	1294.92	9020.00	1294.85	9039.86	1294.88	9070.35	1294.72	9111.74
GR	1294.7	9124.71	1294.90	9148.83	1294.91	9158.79	1295.16	9191.61	1294.99	9202.86
GR	1294.5	9236.22	1294.47	9240.33	1294.46	9241.12	1294.45	9241.88	1294.27	9255.20
GR	1293.9	9275.66	1293.71	9279.65	1293.67	9283.81	1293.77	9286.48	1293.75	9287.89
GR	1293.7	9289.44	1293.70	9304.14	1293.34	9312.20	1293.44	9337.75	1293.47	9363.19
GR	1293.4	9373.01	1293.36	9408.94	1293.31	9418.36	1293.24	9438.20	1293.01	9469.09
GR	1292.9	9478.81	1293.01	9485.50	1293.04	9486.70	1292.75	9496.20	1292.64	9500.62
GR	1292.6	9502.37	1292.41	9518.44	1292.16	9549.00	1292.11	9551.60	1292.13	9595.24
GR	1292.0	9606.26	1291.85	9621.07	1291.81	9626.33	1291.63	9648.79	1291.52	9673.74
GR	1291.5	9684.23	1291.55	9688.03	1291.37	9695.90	1291.19	9701.24	1290.94	9705.69
GR	1291.1	9714.31	1291.19	9722.24	1291.33	9726.41	1291.45	9734.35	1291.31	9738.88
GR	1290.9	9748.40	1290.75	9768.68	1290.74	9770.11	1290.31	9830.92	1290.27	9837.07
GR	1290.3	9867.89	1290.27	9881.06	1290.06	9896.26	1290.29	9904.96	1290.37	9907.40
GR	1290.1	9911.88	1289.90	9916.64	1289.91	9923.73	1289.96	9939.34	1289.83	9954.69
GR	1289.3	9971.42	1289.07	9980.01	1288.89	9983.10	1290.23	9988.44	1291.55	9993.20
GR	1291.5	10000.00	1291.52	10001.47	1289.26	10008.75	1289.26	10009.07	1289.68	10037.46
GR	1290.8	10039.32	1291.84	10040.95	1291.86	10049.54	1291.86	10050.19	1291.56	10051.88
GR	1291.4	10052.91	1291.27	10053.57	1291.04	10054.88	1290.43	10058.44	1289.09	10066.20
GR	1288.0	10077.96	1287.23	10086.61	1286.86	10090.68	1286.65	10092.95	1286.29	10096.00
NH	5	0.15	9354.56	0.02	9447.96	0.09	9933.17	0.035	9986.58	0.025
NH	10099									
ET		7.1	7.1	7.1	7.1		9039.32	9997.79		
X1	22.112	94	9933.17	9986.58	245.0	260.0	260.0			
GR	1294.9	9039.32	1294.61	9059.67	1294.58	9060.14	1294.59	9060.63	1294.61	9061.61
GR	1295.1	9077.90	1294.65	9094.89	1294.61	9097.01	1294.65	9106.55	1294.71	9121.09
GR	1294.6	9125.57	1294.47	9138.38	1294.45	9141.15	1294.42	9145.65	1294.37	9152.57
GR	1294.4	9155.62	1294.55	9176.04	1294.63	9186.50	1294.47	9219.86	1294.32	9230.82
GR	1294.3	9239.40	1294.02	9300.91	1294.13	9325.34	1294.06	9343.82	1294.14	9354.56
GR	1294.1	9365.54	1294.41	9394.23	1294.29	9407.72	1293.26	9447.96	1293.29	9449.75
GR	1293.4	9452.32	1293.02	9456.49	1292.89	9465.15	1292.74	9468.06	1292.72	9469.91
GR	1292.6	9478.03	1292.52	9480.08	1292.52	9481.30	1292.47	9483.26	1292.39	9491.92
GR	1292.4	9493.28	1292.67	9502.74	1292.67	9503.85	1292.92	9557.00	1292.53	9603.80
GR	1292.4	9620.53	1292.31	9625.14	1291.55	9684.05	1291.18	9690.90	1290.92	9713.18
GR	1291.2	9723.41	1290.84	9733.74	1291.11	9743.83	1291.16	9745.48	1291.16	9745.83
GR	1290.8	9755.67	1290.69	9758.14	1290.47	9776.91	1291.20	9811.07	1290.86	9836.24
GR	1290.4	9869.81	1290.34	9907.71	1290.36	9933.17	1289.91	9955.56	1289.83	9958.70
GR	1289.6	9960.54	1287.91	9975.04	1289.96	9981.07	1291.67	9986.58	1291.98	9995.62
GR	1292.0	9997.14	1292.05	9997.79	1291.81	9998.54	1291.35	10000.00	1289.60	10005.60
GR	1289.7	10016.00	1289.59	10033.09	1290.62	10034.11	1292.02	10037.00	1291.99	10042.64
GR	1291.9	10045.87	1289.94	10054.69	1289.68	10055.81	1289.43	10056.98	1289.14	10058.32
GR	1288.9	10059.46	1288.63	10060.82	1288.43	10061.63	1288.31	10067.79	1288.14	10077.75
GR	1288.0	10085.13	1287.87	10093.46	1287.81	10096.81	1287.77	10099.00		

MCKELLIPS ROAD

QT	2	100	275							
NC	0.02	0.02	0.02							
ET		7.1	7.1	7.1	7.1		9016.88	10095.50		
X1	22.208	36	9499.34	9768.90	300.0	520.0	510.0			
GR	1294.8	9016.88	1294.69	9034.93	1294.27	9110.56	1294.24	9118.09	1294.24	9119.05
GR	1294.3	9184.19	1294.23	9202.75	1293.65	9232.11	1293.59	9233.30	1293.51	9239.19
GR	1293.4	9244.76	1293.28	9250.72	1293.35	9264.47	1293.06	9364.99	1293.04	9371.03
GR	1293.0	9389.43	1292.99	9493.86	1292.98	9498.59	1292.98	9499.34	1292.86	9526.01

GR	1292.7	9615.55	1292.68	9629.27	1292.73	9691.71	1292.75	9707.86	1292.74	9760.14
GR	1292.8	9768.90	1293.06	9823.09	1293.08	9833.98	1293.41	9895.91	1293.42	9903.19
GR	1293.6	9980.07	1293.63	9990.00	1293.66	10000.00	1293.83	10075.08	1293.82	10089.69
GR	1293.8	10095.50								
NH	5	0.25	9637.10	0.02	9684.12	0.25	9800.00	0.035	9983.35	0.025
NH	10084									
ET		7.1	7.1	7.1	7.1		9010.16	9983.35		
X1	22.236	83	9800.00	9983.35	310.0	130.0	150.0			
GR	1295.7	9010.16	1295.69	9011.50	1295.69	9012.80	1295.68	9014.08	1295.68	9015.87
GR	1295.7	9016.76	1295.66	9017.16	1295.64	9018.04	1295.63	9019.07	1295.61	9019.92
GR	1295.6	9020.68	1295.59	9021.43	1295.57	9022.19	1295.55	9023.40	1295.54	9024.08
GR	1295.5	9024.67	1295.53	9025.14	1295.51	9025.99	1295.51	9026.43	1295.37	9034.42
GR	1295.5	9052.71	1295.53	9053.96	1295.53	9054.33	1296.14	9062.34	1296.21	9063.27
GR	1296.2	9063.80	1295.53	9129.00	1295.47	9129.83	1295.46	9131.24	1295.53	9132.77
GR	1295.6	9151.89	1295.32	9157.47	1295.00	9167.32	1295.18	9176.46	1295.34	9180.45
GR	1295.1	9205.83	1294.78	9227.77	1294.57	9258.92	1294.51	9277.06	1294.40	9339.96
GR	1294.2	9354.81	1293.46	9383.90	1293.31	9418.34	1293.30	9419.52	1293.28	9421.04
GR	1293.0	9481.86	1293.01	9490.76	1292.98	9545.38	1292.99	9561.98	1292.59	9583.16
GR	1292.4	9608.90	1292.17	9614.80	1292.15	9637.10	1292.19	9652.59	1292.31	9658.61
GR	1292.2	9665.28	1291.95	9684.12	1292.25	9705.44	1292.10	9721.90	1291.47	9800.00
GR	1290.8	9888.91	1290.8	9914.86	1290.86	9918.13	1290.74	9926.51	1290.49	9952.60
GR	1290.5	9969.68	1290.5	9971.50	1291.89	9976.33	1294.19	9983.35	1293.95	9989.50
GR	1294.0	9999.78	1293.9	10000.00	1291.65	10005.56	1289.85	10008.82	1289.85	10023.66
GR	1289.9	10040.14	1292.8	10044.55	1294.13	10046.34	1294.11	10054.57	1293.92	10062.08
GR	1294.1	10063.80	1294.0	10065.69	1293.32	10084.00				
NH	9	0.25	9105.37	0.02	9179.06	0.25	9411.40	0.02	9460.72	0.25
NH	9571.2	0.02	9641.98	0.25	9956.00	0.035	9987.06	0.025	10093.68	
ET		7.1	7.1	7.1	7.1		9063.66	9987.06		
X1	22.283	71	9956.00	9987.06	250.0	250.0	250.0			
GR	1296.1	9063.66	1296.10	9069.92	1295.61	9105.37	1295.69	9111.14	1295.97	9142.83
GR	1296.0	9143.65	1295.94	9146.27	1295.39	9179.06	1295.31	9196.22	1295.32	9225.82
GR	1295.1	9260.90	1294.79	9296.65	1294.27	9324.41	1293.92	9352.33	1293.60	9387.95
GR	1294.1	9402.82	1293.86	9411.40	1293.87	9421.24	1293.81	9435.33	1293.30	9459.79
GR	1293.3	9460.16	1293.30	9460.72	1293.61	9530.39	1293.34	9550,07	1293.48	9571.20
GR	1293.4	9578.45	1293.43	9582.27	1293.63	9588.90	1293.96	9598.61	1293.79	9626.69
GR	1293.7	9632.76	1293.63	9641.98	1293.49	9684.60	1293.30	9705.54	1293.47	9755.99
GR	1293.8	9777.29	1293.71	9793.27	1293.31	9815.31	1293.37	9839.00	1293.09	9844.88
GR	1293.2	9849.01	1293.39	9850.70	1293.48	9863.88	1294.97	9922.15	1293.95	9940.62
GR	1293.6	9945.92	1293.38	9956.00	1292.68	9970.65	1292.63	9971.82	1292.61	9972.52
GR	1292.6	9972.78	1294.65	9987.06	1294.50	9989.77	1294.52	9997.67	1294.52	10000.00
GR	1294.5	10001.39	1294.20	10002.09	1292.23	10007.18	1292.23	10042.94	1292.23	10045.58
GR	1292.5	10046.04	1292.72	10046.59	1294.89	10050.72	1294.89	10051.10	1294.91	10051.68
GR	1295.2	10071.96	1291.24	10080.65	1290.46	10084.51	1290.95	10085.20	1290.99	10090.30
GR	1290.9	10093.68								
NH	8	0.25	9139.37	0.02	9208.05	0.25	9529.65	0.25	9847.96	0.02
NH	9919.1	0.03	9955.98	0.035	9989.54	0.025	10115.59			
ET		7.1	7.1	7.1	7.1		8978.95	9989.54		

X1	22.304	52	9955.98	9989.54	120.0	110.0	110.0			
GR	1295.8	8978.95	1295.79	8984.31	1296.04	8999.53	1296.30	9011.14	1296.05	9016.63
GR	1296.1	9023.78	1296.03	9038.84	1296.08	9066.09	1295.76	9083.63	1295.75	9139.37
GR	1294.2	9192.27	1294.21	9193.19	1294.37	9197.12	1294.47	9202.29	1294.47	9202.85
GR	1294.5	9203.87	1294.47	9204.95	1294.54	9206.16	1294.50	9208.05	1294.48	9209.07
GR	1294.5	9209.72	1294.40	9251.74	1294.06	9314.79	1294.02	9356.38	1294.71	9461.43
GR	1295.0	9529.65	1293.71	9846.46	1293.68	9847.96	1293.45	9873.10	1294.44	9887.64
GR	1293.5	9919.10	1292.50	9955.98	1291.36	9971.81	1294.29	9989.54	1294.29	9993.78
GR	1294.3	9997.79	1295.13	10052.36	1294.22	10073.68	1294.13	10073.88	1294.02	10074.12
GR	1293.8	10074.56	1293.62	10074.97	1293.48	10075.25	1293.33	10075.59	1293.00	10076.29
GR	1292.5	10077.42	1291.92	10078.59	1291.31	10079.89	1290.57	10081.51	1289.57	10083.60
GR	1290.4	10090.18	1290.12	10115.59						
NH	7	0.25	9539.19	0.02	9591.32	0.25	9650.65	0.02	9693.22	0.25
NH	9950.9	0.035	9991.10	0.025	10089.63					
ET		7.1	7.1	7.1	7.1		9021.40	10003.25		
X1	22.350	91	9950.90	9991.10	265.00	250.00	250.00			
GR	1296.4	9021.40	1296.66	9048.08	1296.61	9064.93	1296.11	9097.45	1295.37	9145.48
GR	1295.3	9147.41	1295.33	9148.94	1295.37	9202.98	1295.37	9204.00	1295.38	9204.90
GR	1295.4	9205.84	1295.38	9206.59	1295.38	9207.34	1295.37	9208.07	1295.35	9209.77
GR	1295.2	9226.01	1295.24	9245.55	1295.36	9276.51	1295.49	9282.07	1295.49	9282.91
GR	1295.5	9283.87	1295.49	9284.89	1295.49	9285.93	1295.46	9286.31	1295.45	9286.75
GR	1295.4	9287.21	1295.42	9287.64	1295.42	9288.11	1295.40	9288.59	1295.39	9288.98
GR	1295.4	9289.44	1295.36	9290.31	1295.36	9290.75	1294.92	9306.57	1294.48	9340.28
GR	1294.5	9418.36	1294.01	9442.67	1293.50	9489.80	1293.36	9539.19	1293.37	9541.69
GR	1293.5	9563.89	1293.28	9577.19	1293.07	9591.32	1293.08	9595.58	1293.03	9598.89
GR	1292.9	9626.29	1292.74	9650.65	1292.79	9655.46	1292.98	9667.14	1293.07	9673.75
GR	1293.1	9676.52	1293.07	9677.97	1292.52	9693.22	1293.35	9718.80	1293.41	9722.95
GR	1292.7	9789.83	1293.07	9823.67	1291.83	9850.49	1291.75	9851.95	1291.80	9854.44
GR	1291.5	9870.39	1291.21	9914.26	1291.10	9930.47	1291.05	9950.90	1290.89	9968.51
GR	1290.9	9971.66	1293.47	9987.73	1294.03	9991.10	1294.03	9992.45	1294.12	10000.00
GR	1294.2	10003.25	1294.19	10004.18	1293.66	10006.21	1292.23	10009.84	1292.23	10044.19
GR	1292.2	10049.21	1292.69	10050.23	1293.76	10051.94	1294.39	10053.12	1294.36	10056.55
GR	1294.5	10075.61	1294.60	10077.46	1291.77	10082.95	1291.16	10084.48	1290.60	10085.53
GR	1290.2	10086.89	1289.89	10087.78	1289.73	10088.11	1290.10	10088.67	1290.43	10089.16
GR	1290.8	10089.63								
NH	11	0.25	9098.35	0.02	9157.16	0.25	9343.65	0.02	9388.13	0.25
NH	9475.6	0.02	9560.97	0.25	9795.13	0.02	9827.37	0.25	9968.44	0.035
NH	9994.8	0.025	10092.84							
ET		7.1	7.1	7.1	7.1		9026.36	9994.84		
X1	22.401	74	9968.44	9994.80	245.00	270.00	270.00			
GR	1296.8	9026.36	1296.65	9056.62	1296.77	9077.09	1296.97	9098.35	1297.11	9115.89
GR	1297.1	9133.56	1297.06	9139.51	1297.03	9142.33	1296.57	9157.16	1296.32	9161.95
GR	1296.2	9171.31	1296.05	9202.26	1295.51	9258.65	1295.18	9286.10	1295.04	9298.05
GR	1294.7	9322.25	1294.54	9335.21	1294.41	9343.65	1294.74	9366.05	1294.38	9388.13
GR	1294.4	9395.66	1294.31	9402.45	1294.61	9436.63	1294.95	9461.17	1294.60	9473.82
GR	1294.5	9475.60	1294.63	9483.85	1294.71	9507.96	1294.80	9508.34	1294.68	9533.23
GR	1295.4	9560.97	1295.34	9583.72	1295.82	9606.10	1295.16	9631.47	1292.76	9678.57
GR	1292.3	9689.83	1292.34	9700.56	1291.98	9795.13	1291.97	9796.09	1292.00	9798.17
GR	1292.2	9812.04	1292.14	9820.61	1292.01	9827.37	1292.12	9828.17	1292.39	9830.18
GR	1292.5	9836.74	1292.50	9838.71	1292.51	9866.65	1292.73	9869.53	1292.49	9878.20
GR	1292.1	9911.48	1291.37	9937.37	1291.11	9968.44	1291.13	9974.07	1291.13	9976.75
GR	1292.4	9984.49	1294.08	9994.80	1294.01	9998.05	1294.00	10000.00	1293.93	10008.43

GR	1293.5	10009.53	1292.23	10013.29	1292.23	10042.13	1292.25	10052.00	1293.52	10054.82
GR	1295.2	10058.56	1295.00	10079.34	1291.66	10087.81	1290.17	10089.76	1289.82	10090.20
GR	1289.7	10090.50	1290.34	10091.99	1290.49	10092.35	1290.70	10092.84		
NH	7	0.25	9321.71	0.02	9370.95	0.25	9797.69	0.02	9831.03	0.25
NH	9969.6	0.035	9998.18	0.025	10095.93					
ET		7.1	7.1	7.1	7.1		9002.55	10009.46		
X1	22.444	79	9969.60	9998.18	225.00	225.00	225.00			
GR	1298.1	9002.55	1297.87	9023.28	1297.58	9045.01	1298.56	9095.13	1298.68	9111.13
GR	1298.5	9117.74	1298.54	9119.67	1298.54	9146.59	1298.57	9148.70	1298.61	9149.96
GR	1297.4	9180.22	1296.46	9189.94	1296.17	9209.89	1295.18	9268.60	1295.08	9275.66
GR	1295.0	9321.71	1294.86	9336.51	1294.82	9339.48	1294.75	9355.21	1295.31	9370.95
GR	1295.5	9407.35	1295.34	9416.98	1295.33	9479.80	1295.15	9486.06	1293.41	9518.38
GR	1292.9	9552.28	1292.91	9553.75	1292.89	9555.14	1292.57	9613.63	1292.51	9624.22
GR	1292.5	9624.67	1292.49	9625.65	1292.01	9676.26	1292.12	9693.35	1292.14	9695.12
GR	1292.1	9697.07	1292.57	9760.68	1292.53	9768.19	1292.43	9772.90	1291.62	9797.69
GR	1291.9	9814.08	1291.69	9825.32	1291.53	9831.03	1291.70	9832.24	1292.13	9835.66
GR	1292.2	9891.22	1292.31	9907.40	1292.00	9914.60	1291.21	9942.77	1291.54	9969.60
GR	1291.8	9980.39	1291.73	9985.65	1292.70	9990.84	1293.95	9998.18	1293.99	10000.00
GR	1294.0	10002.32	1294.01	10009.46	1293.15	10012.00	1292.87	10013.49	1292.47	10014.50
GR	1292.2	10015.76	1292.29	10036.81	1292.32	10054.27	1293.05	10055.89	1293.51	10056.95
GR	1294.9	10058.38	1295.12	10058.70	1295.12	10061.39	1295.22	10081.18	1294.99	10082.18
GR	1292.3	10088.03	1292.17	10088.45	1291.60	10089.60	1290.58	10091.87	1290.32	10092.30
GR	1290.1	10092.83	1289.77	10094.00	1290.29	10094.89	1290.98	10095.93		
NH	9	0.25	9108.03	0.02	9169.47	0.25	9422.86	0.02	9478.50	0.25
NH	9806.0	0.02	9828.12	0.25	9981.28	0.035	10010.64	0.025	10097.10	
ET		7.1	7.1	7.1	7.1		9019.41	10019.33		
X1	22.488	64	9981.28	10010.64	230.00	230.00	230.00			
GR	1296.7	9019.41	1296.41	9059.60	1296.32	9063.43	1296.32	9065.71	1296.28	9069.95
GR	1295.9	9108.03	1295.77	9123.60	1295.74	9125.76	1295.75	9127.25	1294.66	9149.58
GR	1294.6	9152.34	1294.48	9156.00	1294.55	9157.11	1294.74	9169.47	1295.37	9197.76
GR	1295.3	9213.82	1295.44	9240.95	1295.44	9286.29	1295.29	9311.69	1295.50	9335.90
GR	1295.3	9358.76	1294.88	9394.16	1294.57	9419.82	1294.48	9422.86	1294.46	9426.18
GR	1294.3	9437.99	1294.20	9445.53	1294.21	9450.16	1294.46	9478.50	1293.95	9507.13
GR	1293.6	9553.80	1293.17	9576.16	1292.84	9594.62	1292.89	9612.22	1293.09	9629.98
GR	1292.9	9648.63	1292.64	9681.29	1292.58	9700.72	1292.60	9750.37	1292.42	9764.31
GR	1292.0	9793.56	1291.51	9806.00	1291.54	9814.90	1291.64	9819.29	1291.69	9828.12
GR	1292.0	9866.02	1292.16	9877.54	1291.99	9938.50	1291.92	9948.28	1291.77	9957.61
GR	1291.6	9981.28	1291.49	9997.28	1291.45	10000.00	1292.09	10002.22	1294.00	10010.64
GR	1294.0	10015.92	1294.03	10019.33	1293.88	10024.97	1294.36	10042.36	1295.11	10072.13
GR	1295.0	10085.00	1294.95	10089.74	1295.05	10093.85	1293.58	10097.10		
QT	2	215	305							
NH	7	0.25	9192.12	0.02	9249.25	0.25	9512.67	0.02	9746.52	0.25
NH	9967.9	0.035	10004.28	0.025	10099.88					
ET		7.1	7.1	7.1	7.1		9001.96	10004.28		
X1	22.541	76	9967.90	10004.28	295.00	280.00	280.00			
GR	1297.0	9001.96	1296.22	9047.95	1296.03	9072.92	1295.37	9094.10	1295.16	9108.39
GR	1295.3	9159.66	1295.16	9179.35	1294.92	9192.12	1293.54	9227.41	1293.42	9229.12
GR	1293.5	9230.04	1294.48	9249.25	1294.85	9282.81	1294.86	9284.69	1294.90	9290.79
GR	1294.9	9351.74	1294.91	9356.72	1294.89	9357.16	1293.86	9421.91	1293.91	9429.81
GR	1294.0	9439.94	1294.09	9500.37	1294.48	9512.67	1293.91	9532.72	1293.89	9533.36
GR	1293.9	9534.13	1293.88	9534.83	1293.63	9552.84	1293.66	9555.17	1293.49	9563.73

GR	1293.4	9596.30	1293.36	9602.91	1293.27	9609.87	1293.14	9621.00	1292.55	9656.00
GR	1292.0	9692.65	1291.59	9716.09	1291.10	9746.52	1290.96	9766.96	1290.86	9775.27
GR	1290.6	9789.81	1290.49	9792.81	1290.79	9805.28	1291.18	9816.10	1291.19	9817.20
GR	1291.2	9820.98	1291.72	9853.36	1291.91	9910.74	1292.07	9929.47	1292.38	9939.88
GR	1292.3	9953.10	1292.35	9954.25	1292.36	9955.48	1292.34	9967.90	1292.50	9979.93
GR	1292.6	9994.21	1292.62	9997.43	1293.69	10000.00	1293.86	10000.41	1294.73	10004.28
GR	1294.7	10013.62	1294.60	10020.17	1293.12	10022.22	1292.24	10024.97	1292.25	10035.92
GR	1291.9	10063.75	1292.72	10065.09	1293.71	10067.22	1294.17	10067.53	1295.16	10068.89
GR	1295.3	10087.21	1295.28	10089.52	1294.93	10090.37	1292.06	10098.24	1291.13	10099.52
GR	1290.8	10099.88								
NH	5	0.02	9048.18	0.25	9514.43	0.02	9553.32	0.03	10006.71	0.025
NH	10100									
ET		7.1	7.1	7.1	7.1		9001.95	10013.49		
X1	22.571	86	9553.32	10006.71	165.00	160.00	160.00			
GR	1295.7	9001.95	1295.06	9007.09	1293.60	9019.24	1294.60	9033.95	1295.98	9048.18
GR	1295.8	9082.44	1295.39	9164.85	1295.22	9175.63	1295.20	9191.59	1294.39	9247.86
GR	1294.3	9272.27	1294.38	9319.05	1294.23	9352.95	1294.21	9354.64	1294.18	9367.37
GR	1293.9	9421.61	1293.79	9434.01	1293.43	9476.86	1293.44	9493.90	1293.10	9509.82
GR	1293.0	9514.43	1293.27	9529.75	1293.37	9535.23	1293.19	9547.14	1293.03	9553.32
GR	1293.2	9557.60	1293.31	9565.05	1293.36	9565.62	1291.52	9597.29	1290.45	9610.84
GR	1287.8	9639.45	1284.16	9674.56	1284.05	9675.41	1283.94	9676.03	1283.50	9678.59
GR	1283.5	9705.72	1283.50	9708.10	1283.50	9710.01	1283.50	9721.67	1283.50	9724.12
GR	1283.5	9727.98	1283.50	9735.19	1283.50	9748.49	1283.50	9754.55	1283.50	9759.73
GR	1283.5	9763.94	1283.50	9770.60	1283.50	9777.07	1283.50	9781.63	1283.50	9787.39
GR	1283.5	9792.19	1283.53	9884.04	1283.53	9886.04	1283.50	9901.48	1283.50	9902.84
GR	1283.9	9905.47	1284.91	9913.31	1285.40	9916.99	1285.68	9918.98	1285.94	9920.84
GR	1286.0	9921.56	1286.12	9922.12	1286.21	9922.69	1287.51	9929.41	1291.95	9956.23
GR	1292.1	9957.53	1292.49	9983.99	1293.21	9995.65	1293.24	9996.44	1293.66	10000.00
GR	1294.2	10004.22	1294.56	10006.71	1294.74	10013.49	1294.15	10018.79	1291.79	10024.65
GR	1291.8	10039.92	1291.81	10045.89	1291.74	10062.97	1291.70	10063.73	1292.65	10064.85
GR	1295.2	10066.99	1294.70	10080.08	1294.31	10089.18	1291.64	10096.78	1290.98	10098.81
GR	1290.5	10100.00								
NH	6	0.25	9235.12	0.02	9360.50	0.25	9508.59	0.02	9551.24	0.03
NH	10005.	0.025	10021.86							
ET		7.1	7.1	7.1	7.1		9009.19	10005.18		
X1	22.609	70	9551.24	10005.00	210.00	200.00	200.00			
GR	1296.0	9009.19	1296.01	9025.76	1295.61	9084.73	1295.37	9121.51	1295.31	9128.28
GR	1295.3	9165.77	1295.31	9195.31	1295.18	9198.68	1295.02	9209.47	1294.61	9229.17
GR	1294.5	9235.12	1294.54	9238.47	1294.46	9243.45	1294.53	9264.60	1293.94	9270.44
GR	1293.9	9274.79	1293.60	9294.74	1293.71	9300.70	1294.03	9321.44	1293.93	9360.50
GR	1294.1	9374.50	1294.31	9390.16	1293.77	9425.22	1294.11	9445.67	1294.07	9459.35
GR	1293.8	9488.35	1293.41	9505.15	1293.30	9508.59	1293.33	9512.26	1293.61	9529.41
GR	1293.4	9543.28	1293.36	9551.24	1293.37	9557.30	1293.37	9558.20	1292.53	9574.62
GR	1290.6	9601.72	1287.74	9628.33	1287.71	9629.02	1287.69	9629.59	1283.71	9666.56
GR	1283.5	9880.03	1283.50	9881.49	1283.50	9884.74	1283.50	9886.78	1283.50	9887.53
GR	1283.7	9890.91	1284.02	9895.31	1284.29	9899.36	1284.48	9902.41	1284.68	9905.37
GR	1284.8	9906.99	1284.92	9908.55	1285.02	9909.86	1285.12	9911.15	1285.28	9912.95
GR	1286.3	9922.15	1288.38	9939.79	1290.69	9952.95	1292.18	9960.79	1292.38	9974.36
GR	1292.6	9988.23	1292.61	9991.74	1292.67	9996.61	1293.25	10000.00	1294.00	10004.33
GR	1294.2	10005.00	1294.15	10013.82	1294.15	10019.61	1293.49	10021.52	1293.36	10021.86

NH	7	0.25	9151.50	0.02	9208.04	0.25	9470.98	0.02	9510.57	0.25
NH	9982.1	0.03	10005.58	0.025	10095.40					
ET		7.1	7.1	7.1	7.1		9004.69	10005.58		
X1	22.636	89	9982.10	10005.58	140.00	140.00	140.00			
GR	1295.8	9004.69	1295.61	9051.98	1295.63	9090.48	1295.56	9113.24	1295.03	9135.76
GR	1295.0	9143.51	1295.02	9151.50	1295.20	9170.82	1295.28	9174.52	1295.28	9178.29
GR	1294.9	9208.04	1294.52	9234.17	1294.49	9237.18	1294.49	9240.90	1294.49	9241.55
GR	1294.8	9283.17	1294.81	9285.36	1294.81	9287.68	1294.82	9289.54	1294.82	9291.72
GR	1294.8	9294.33	1294.81	9296.00	1294.79	9297.78	1294.79	9299.71	1294.79	9301.32
GR	1294.1	9327.85	1293.85	9350.33	1294.06	9358.29	1294.29	9417.42	1294.29	9419.57
GR	1294.4	9450.06	1294.44	9468.92	1294.43	9469.83	1294.42	9470.98	1294.29	9487.83
GR	1293.8	9503.83	1293.93	9510.57	1293.68	9512.79	1293.69	9513.52	1294.01	9518.83
GR	1294.2	9522.50	1294.09	9527.74	1294.11	9539.24	1293.93	9547.78	1293.48	9601.43
GR	1293.5	9611.15	1293.22	9621.08	1293.15	9628.70	1293.01	9659.48	1292.95	9673.96
GR	1292.7	9707.40	1292.53	9725.90	1292.04	9760.49	1291.73	9772.83	1291.68	9776.67
GR	1291.6	9779.11	1291.55	9782.87	1291.44	9788.01	1291.40	9807.22	1291.28	9814.23
GR	1292.4	9847.77	1292.45	9848.41	1292.46	9851.77	1292.54	9909.69	1292.55	9919.57
GR	1292.5	9933.53	1292.00	9970.01	1291.73	9982.10	1292.60	9996.00	1292.66	9997.41
GR	1292.7	9997.77	1293.12	10000.00	1293.94	10004.51	1294.16	10005.58	1294.15	10013.70
GR	1294.1	10019.43	1292.77	10023.10	1292.64	10023.48	1292.48	10023.96	1292.31	10024.51
GR	1292.2	10024.90	1292.01	10025.50	1291.98	10031.41	1291.77	10063.76	1292.07	10064.11
GR	1294.9	10067.54	1294.55	10084.82	1294.37	10089.51	1292.40	10095.40		
NH	6	0.25	9304.68	0.02	9350.62	0.25	9807.22	0.02	9834.12	0.25
NH	9984.2	0.03	10003.42							
ET		7.1	7.1	7.1	7.1		9001.94	10003.42		
X1	22.695	95	9984.20	10003.42	285.00	310.00	310.00			
GR	1295.6	9001.94	1295.57	9002.94	1295.58	9006.30	1295.57	9037.64	1294.93	9081.10
GR	1295.1	9166.01	1295.15	9175.47	1295.24	9190.62	1294.43	9241.77	1294.28	9252.65
GR	1294.3	9258.48	1294.89	9304.68	1295.06	9317.83	1295.24	9325.06	1294.88	9342.51
GR	1294.8	9347.25	1294.84	9347.58	1294.83	9348.01	1294.83	9348.55	1294.82	9349.26
GR	1294.8	9349.90	1294.81	9350.62	1294.80	9351.12	1294.82	9351.66	1294.85	9352.50
GR	1295.1	9407.85	1295.12	9408.24	1295.12	9408.67	1295.12	9409.19	1295.13	9410.28
GR	1295.2	9427.25	1294.75	9460.87	1294.74	9462.53	1294.71	9464.41	1294.65	9469.03
GR	1294.0	9497.97	1293.30	9523.39	1293.01	9528.59	1292.70	9544.79	1292.41	9589.93
GR	1292.5	9609.45	1292.27	9620.55	1292.33	9675.11	1292.43	9696.32	1291.98	9738.12
GR	1292.1	9739.33	1292.05	9741.19	1292.04	9742.14	1292.04	9743.77	1292.04	9744.20
GR	1292.6	9775.46	1292.56	9776.37	1292.55	9777.25	1292.55	9777.63	1292.54	9778.38
GR	1292.5	9779.83	1292.52	9780.34	1292.52	9780.92	1292.52	9782.15	1292.51	9782.67
GR	1292.2	9788.86	1292.16	9790.27	1292.14	9790.62	1292.01	9792.73	1291.93	9793.93
GR	1291.8	9795.61	1291.75	9796.68	1291.67	9798.01	1291.55	9799.84	1291.40	9802.08
GR	1291.3	9803.81	1291.29	9807.22	1291.29	9811.49	1291.28	9813.11	1291.28	9813.94
GR	1291.3	9814.42	1291.29	9814.94	1291.29	9815.78	1291.28	9817.08	1291.29	9817.88
GR	1291.2	9834.12	1291.76	9848.19	1291.93	9851.59	1292.87	9916.62	1292.95	9923.12
GR	1292.9	9923.57	1291.90	9958.55	1292.16	9969.78	1291.71	9984.20	1291.76	9991.56
GR	1291.9	9993.43	1292.13	9994.49	1293.29	9999.46	1293.41	10000.00	1294.16	10003.42
NH	7	0.25	9159.79	0.02	9226.84	0.25	9788.93	0.02	9822.01	0.25
NH	9973.0	0.03	10007.96	0.025	10011.73					
ET		7.1	7.1	7.1	7.1		9007.66	10007.96		

X1	22.744	95	9973.00	10007.96	235.00	260.00	260.00			
GR	1295.6	9007.66	1295.36	9033.04	1295.29	9073.57	1295.25	9082.16	1295.41	9092.18
GR	1295.3	9101.25	1295.50	9141.51	1295.33	9143.46	1295.58	9159.01	1295.46	9159.79
GR	1295.5	9166.82	1295.54	9171.32	1295.53	9172.07	1295.49	9174.31	1295.34	9195.17
GR	1295.3	9208.43	1295.34	9211.84	1294.84	9215.82	1294.88	9217.35	1294.90	9218.25
GR	1295.1	9226.84	1294.95	9261.20	1294.97	9263.11	1294.97	9263.69	1294.97	9264.49
GR	1295.0	9271.94	1295.03	9273.10	1295.03	9274.98	1295.03	9275.39	1295.03	9275.77
GR	1295.0	9276.09	1295.04	9276.71	1295.21	9294.91	1294.32	9322.40	1294.03	9337.20
GR	1293.4	9399.16	1293.32	9403.12	1293.38	9442.61	1293.03	9475.90	1293.42	9507.65
GR	1293.6	9534.91	1293.35	9548.88	1292.49	9585.02	1292.85	9600.83	1292.01	9629.38
GR	1291.7	9649.47	1291.68	9666.73	1291.56	9684.94	1291.79	9732.63	1291.93	9755.85
GR	1292.1	9779.59	1292.08	9781.31	1292.09	9782.19	1292.09	9783.00	1292.08	9785.42
GR	1292.1	9786.65	1292.08	9788.93	1292.08	9790.16	1292.08	9790.58	1292.04	9792.13
GR	1292.0	9793.43	1291.96	9794.44	1291.94	9795.36	1291.94	9796.11	1291.93	9796.70
GR	1291.9	9797.08	1291.93	9797.56	1291.94	9798.25	1291.95	9798.66	1291.95	9799.17
GR	1291.9	9799.59	1291.94	9804.67	1292.00	9820.42	1292.00	9822.01	1292.09	9832.79
GR	1292.3	9859.74	1292.33	9862.23	1292.29	9864.46	1291.76	9893.77	1291.09	9933.12
GR	1291.0	9936.37	1290.95	9943.22	1290.72	9973.00	1291.40	9981.61	1291.72	9986.09
GR	1292.6	9988.70	1294.16	9992.74	1293.96	10000.00	1293.93	10001.09	1293.90	10004.11
GR	1294.1	10007.96	1292.82	10010.80	1292.68	10011.16	1292.57	10011.45	1292.48	10011.73
NH	7	0.25	9445.45	0.02	9494.74	0.25	9685.39	0.02	9723.80	0.25
NH	9955.7	0.03	9992.85	0.025	10003.48					
ET		7.1	7.1	7.1	7.1		9001.51	9999.41		
X1	22.798	95	9955.70	9992.85	275.00	285.00	285.00			
GR	1295.8	9001.51	1295.82	9003.42	1295.82	9006.14	1295.79	9008.99	1295.78	9010.18
GR	1295.8	9014.85	1295.89	9017.96	1295.92	9019.76	1295.95	9021.47	1295.97	9023.62
GR	1295.8	9036.43	1295.39	9061.09	1295.04	9079.43	1295.17	9132.56	1295.13	9141.77
GR	1294.3	9204.08	1294.53	9249.33	1294.53	9275.06	1294.29	9303.46	1293.95	9339.95
GR	1293.7	9360.74	1293.86	9421.19	1293.90	9429.20	1293.85	9442.48	1293.84	9445.45
GR	1293.3	9493.36	1293.30	9493.83	1293.29	9494.74	1293.28	9497.77	1293.28	9498.09
GR	1293.5	9515.73	1293.48	9516.21	1293.49	9516.97	1293.45	9519.71	1293.68	9529.35
GR	1293.4	9595.89	1293.41	9597.58	1293.29	9610.49	1293.19	9625.74	1293.18	9626.26
GR	1293.1	9633.78	1293.10	9635.20	1293.10	9636.15	1293.08	9637.57	1293.08	9638.37
GR	1293.1	9639.20	1293.06	9639.75	1292.95	9642.02	1292.35	9668.71	1292.36	9669.41
GR	1292.4	9669.83	1292.38	9670.80	1292.39	9671.16	1292.40	9671.79	1292.41	9672.24
GR	1292.4	9672.94	1292.43	9674.08	1292.45	9675.16	1292.46	9675.74	1292.47	9676.32
GR	1292.6	9684.37	1292.58	9684.77	1292.59	9685.39	1292.60	9686.10	1292.61	9686.65
GR	1292.6	9687.74	1292.64	9688.56	1292.65	9689.37	1292.66	9690.12	1292.67	9690.80
GR	1292.7	9691.43	1292.70	9692.17	1292.71	9692.71	1292.86	9703.83	1292.78	9713.33
GR	1292.7	9723.80	1292.55	9733.47	1292.50	9765.01	1292.49	9775.77	1292.40	9783.82
GR	1291.6	9841.20	1291.61	9847.23	1291.00	9873.97	1290.84	9889.67	1290.90	9918.70
GR	1292.2	9952.01	1292.15	9955.70	1290.53	9970.74	1290.76	9976.43	1291.49	9985.78
GR	1293.6	9992.85	1294.16	9993.73	1294.57	9999.41	1294.51	10000.00	1294.15	10003.48
NH	7	0.06	9272.96	0.02	9342.44	0.25	9787.94	0.02	9853.30	0.25
NH	9966.7	0.03	9991.72	0.025	10009.12					
ET		7.1	7.1	7.1	7.1		9029.45	10000.74		
X1	22.849	95	9966.70	9991.72	270.00	270.00	270.00			
GR	1295.3	9029.45	1295.54	9078.69	1295.72	9108.78	1294.78	9148.61	1294.76	9158.56
GR	1294.7	9169.70	1294.51	9207.62	1294.51	9210.71	1294.50	9212.67	1294.49	9214.33
GR	1294.5	9215.23	1294.09	9268.25	1294.08	9271.93	1294.07	9272.96	1294.00	9274.77
GR	1294.0	9277.58	1293.78	9294.42	1293.76	9295.87	1294.03	9304.37	1294.07	9308.76
GR	1294.2	9321.99	1294.13	9324.25	1294.11	9326.44	1293.97	9342.44	1293.87	9351.73

GR	1294.2	9363.54	1294.38	9370.90	1294.31	9379.56	1293.60	9421.10	1293.84	9431.89
GR	1294.0	9434.36	1294.02	9441.49	1294.14	9483.43	1294.14	9500.67	1293.48	9545.76
GR	1293.5	9546.31	1293.47	9547.05	1292.82	9608.08	1293.07	9636.96	1292.41	9671.77
GR	1292.5	9691.09	1292.59	9707.69	1293.00	9740.33	1293.21	9755.09	1293.53	9770.77
GR	1293.8	9787.94	1293.84	9790.91	1293.96	9802.61	1294.06	9808.81	1294.09	9816.91
GR	1294.1	9820.81	1294.12	9823.25	1294.11	9826.96	1294.07	9831.11	1294.07	9834.67
GR	1294.0	9841.56	1293.94	9845.08	1293.88	9849.65	1293.86	9853.30	1293.92	9863.36
GR	1291.2	9901.52	1291.07	9902.32	1291.11	9905.14	1291.13	9906.07	1291.21	9910.20
GR	1291.3	9911.69	1291.31	9913.87	1291.34	9915.04	1291.38	9916.42	1291.41	9917.76
GR	1291.4	9919.12	1291.47	9920.27	1291.50	9921.20	1291.52	9922.09	1291.54	9923.05
GR	1291.6	9924.89	1291.60	9926.25	1291.63	9927.68	1291.65	9928.84	1291.67	9929.91
GR	1291.7	9931.00	1291.43	9954.04	1291.33	9966.70	1291.57	9972.81	1291.95	9980.49
GR	1292.3	9982.45	1292.39	9987.42	1293.37	9991.09	1294.16	9991.72	1294.70	10000.00
GR	1294.8	10000.74	1294.77	10001.40	1294.15	10006.64	1293.22	10008.69	1293.07	10009.12
NH	6	0.06	9596.37	0.02	9655.24	0.25	9899.21	0.02	9963.16	0.03
NH	10009	0.025	10099.07							
ET		7.1	7.1	7.1	7.1		9196.32	10009.00		
X1	22.932	79	9963.16	10009.00	240.00	220.00	220.00			
GR	1294.5	9196.32	1294.51	9196.62	1294.46	9197.82	1294.64	9199.75	1294.64	9202.51
GR	1294.6	9203.81	1294.73	9207.73	1294.71	9209.18	1294.73	9210.07	1294.76	9211.22
GR	1294.3	9238.14	1293.84	9312.61	1293.71	9345.02	1293.22	9423.86	1293.09	9452.88
GR	1293.0	9480.17	1292.83	9518.75	1292.72	9535.14	1292.54	9568.59	1292.63	9589.68
GR	1292.0	9594.54	1291.85	9596.37	1292.18	9603.52	1292.19	9610.21	1292.41	9618.14
GR	1292.4	9619.83	1292.57	9635.15	1292.62	9639.75	1292.42	9649.13	1292.30	9655.24
GR	1292.8	9675.28	1292.87	9687.65	1292.61	9708.36	1292.39	9726.16	1292.44	9743.83
GR	1292.1	9792.06	1291.64	9814.73	1292.02	9841.13	1292.18	9866.38	1292.19	9869.86
GR	1292.3	9871.39	1293.19	9887.52	1293.13	9891.67	1293.13	9899.21	1293.45	9912.96
GR	1293.6	9919.82	1293.68	9934.21	1293.68	9940.27	1293.69	9942.70	1293.78	9952.20
GR	1294.0	9963.16	1293.85	9967.49	1293.69	9986.23	1293.73	9987.98	1293.92	9991.85
GR	1294.3	10000.00	1294.50	10005.91	1294.62	10009.00	1294.12	10010.53	1293.88	10010.90
GR	1293.4	10011.72	1291.79	10014.21	1291.82	10020.25	1292.06	10049.64	1292.38	10050.28
GR	1292.6	10050.64	1294.75	10054.40	1294.71	10054.86	1294.82	10061.09	1294.82	10066.91
GR	1294.8	10084.65	1293.10	10087.38	1291.65	10090.69	1290.58	10093.41	1290.43	10093.83
GR	1290.3	10094.30	1289.99	10095.23	1290.22	10095.82	1291.88	10099.07		
NH	5	0.06	9723.06	0.02	9771.77	0.03	9924.16	0.03	9994.68	0.025
NH	10096									
ET		7.1	7.1	7.1	7.1		9435.23	10009.51		
X1	22.976	63	9924.16	9994.68	230.0	230.0	230.0			
GR	1294.9	9435.23	1293.45	9444.88	1293.32	9456.25	1293.17	9471.23	1293.09	9483.06
GR	1293.0	9487.99	1293.28	9523.47	1293.38	9537.63	1293.14	9554.19	1293.06	9557.27
GR	1293.0	9561.68	1292.24	9630.39	1292.22	9631.93	1292.56	9694.85	1292.63	9709.58
GR	1292.1	9715.33	1291.31	9723.06	1291.49	9726.18	1291.52	9726.56	1291.98	9729.72
GR	1292.2	9743.47	1292.24	9747.39	1292.17	9761.63	1292.19	9771.77	1291.99	9774.24
GR	1291.2	9788.60	1291.18	9789.87	1291.15	9794.79	1291.12	9796.07	1291.09	9801.87
GR	1290.9	9813.76	1291.15	9827.82	1291.22	9858.27	1291.18	9869.91	1291.21	9878.62
GR	1290.7	9924.16	1290.33	9955.35	1290.25	9979.08	1290.12	9981.52	1292.16	9988.30
GR	1294.3	9994.68	1294.37	10000.00	1294.37	10000.25	1294.47	10008.01	1294.47	10009.51
GR	1293.4	10011.63	1292.76	10013.98	1292.44	10014.69	1292.33	10015.26	1292.29	10035.72
GR	1292.3	10051.44	1292.56	10052.01	1292.72	10052.31	1295.80	10057.53	1295.67	10080.58
GR	1295.7	10082.47	1295.64	10083.18	1295.30	10083.83	1294.10	10086.24	1292.69	10089.95
GR	1290.6	10094.69	1290.21	10095.58	1290.42	10096.00				

T1
T2
T3 EASTERN CANAL- PROF. 2

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10	3			.0006				1280	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

THIS RUN EXECUTED 02JUN97 08:32:17

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HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

EASTERN CANAL-PROF. 1

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
	16.422	190.00	1279.84	.00	1.26	.00	9998.76	10019.65	9009.83	10019.65	9887.23	10013.50	.17
	16.422	215.00	1279.94	.00	1.30	.00	9998.76	10019.65	9009.83	10019.65	9883.04	10013.65	.17
	16.458	190.00	1279.97	.00	2.27	190.00	10009.96	10034.76	9010.87	10041.35	9918.43	10029.89	[illegible]
	16.458	215.00	1280.07	.00	2.35	190.00	10009.96	10034.76	9010.87	10041.35	9917.21	10029.99	[illegible]
	16.493	190.00	1281.71	.00	2.30	190.00	10006.02	10035.59	9018.47	10035.59	10006.99	10029.45	.21
*	16.493	215.00	1282.40	.00	.36	190.00	10006.02	10035.59	9018.47	10035.59	9317.27	10031.34	.03
*	16.549	190.00	1281.90	.00	.64	290.00	10000.00	10030.70	9008.86	10046.42	9462.46	10046.42	.09
*	16.549	215.00	1282.41	.00	.47	290.00	10000.00	10030.70	9008.86	10046.42	9368.50	10046.42	.06
*	16.606	190.00	1281.98	.00	3.79	300.00	10007.16	10024.00	9018.16	10024.00	9518.78	10023.16	.51
*	16.606	215.00	1282.44	.00	1.89	300.00	10007.16	10024.00	9018.16	10024.00	9517.23	10024.00	.23
*	16.662	190.00	1282.48	.00	1.16	295.00	9993.73	10018.37	9159.57	10018.37	9517.94	10018.07	.16
*	16.662	215.00	1282.63	.00	1.03	295.00	9993.73	10018.37	9159.57	10018.37	9498.99	10018.37	.13
*	16.723	60.00	1282.60	.00	.76	260.00	9948.31	10007.88	9219.50	10007.88	9576.86	10007.46	.13
*	16.723	75.00	1282.73	.00	.79	260.00	9948.31	10007.88	9219.50	10007.88	9555.66	10007.73	.13
	16.772	60.00	1282.67	.00	.74	260.00	9963.80	10009.79	9963.80	10009.79	9963.80	10009.79	.10
	16.772	75.00	1282.80	.00	.86	260.00	9963.80	10009.79	9963.80	10009.79	9963.80	10009.79	.11
*	16.852	60.00	1282.69	.00	.12	425.00	9993.66	10011.04	9217.33	10011.04	9555.04	10011.04	.01
*	16.852	75.00	1282.82	.00	.13	425.00	9993.66	10011.04	9217.33	10011.04	9531.98	10011.04	.02
*	16.921	60.00	1282.68	.00	1.39	370.00	9985.73	10007.37	9445.34	10007.37	9987.67	10005.72	.16
*	16.921	75.00	1282.81	.00	1.64	370.00	9985.73	10007.37	9445.34	10007.37	9987.31	10005.81	.18
*	16.939	60.00	1283.35	.00	.22	95.00	9985.73	10007.37	9445.34	10007.37	9536.34	10006.17	[illegible]
*	16.939	75.00	1283.86	.00	.17	95.00	9985.73	10007.37	9445.34	10007.37	9469.68	10006.52	.02

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
*	17.014	60.00	1283.35	.00	.50	400.00	9980.90	10004.49	9656.82	10004.49	9759.72	10003.08	.06
*	17.014	75.00	1283.86	.00	.33	400.00	9980.90	10004.49	9656.82	10004.49	9720.97	10004.49	.04
	17.160	45.00	1284.26	.00	.42	775.00	9967.33	10008.11	9022.68	10008.11	9968.65	10006.78	.04
*	17.160	50.00	1284.98	.00	.01	775.00	9967.33	10008.11	9022.68	10008.11	9321.44	10008.11	.00
*	17.183	45.00	1284.26	.00	.00	120.00	9981.03	10007.41	9031.26	10025.29	9308.99	10006.80	.00
*	17.183	50.00	1284.98	.00	.00	120.00	9981.03	10007.41	9031.26	10025.29	9297.42	10025.29	.00
*	17.256	45.00	1284.26	.00	.00	390.00	9979.20	10004.34	9031.40	10004.34	9269.39	10004.17	.00
*	17.256	50.00	1284.98	.00	.00	390.00	9979.20	10004.34	9031.40	10004.34	9258.84	10004.34	.00
*	17.277	45.00	1284.26	.00	.14	110.00	9885.55	10008.42	9016.02	10008.42	9669.65	10007.28	.02
*	17.277	50.00	1284.98	.00	.09	110.00	9885.55	10008.42	9016.02	10008.42	9550.65	10008.42	.01
*	17.325	45.00	1284.27	.00	.48	255.00	9976.66	10007.12	9036.78	10007.12	9730.44	10006.78	.05
*	17.325	50.00	1284.98	.00	.32	255.00	9976.66	10007.12	9036.78	10007.12	9636.95	10007.12	.03
*	17.435	45.00	1284.28	.00	.24	580.00	9988.77	10011.62	9058.07	10011.62	9680.27	10011.62	.03
*	17.435	50.00	1284.99	.00	.16	580.00	9988.77	10011.62	9058.07	10011.62	9578.92	10011.62	.01
	17.485	45.00	1284.28	.00	.33	260.00	9954.01	10009.47	9011.11	10009.47	9653.46	10008.99	.04
*	17.485	50.00	1284.99	.00	.23	260.00	9954.01	10009.47	9011.11	10009.47	9536.75	10009.47	.02
*	17.570	32.00	1284.29	.00	.67	445.00	9988.80	10017.09	9006.43	10017.09	9990.16	10013.65	.08
*	17.570	190.00	1285.00	.00	2.00	445.00	9988.80	10017.09	9006.43	10017.09	9651.50	10015.57	.22
*	17.608	32.00	1285.58	.00	.09	200.00	9983.70	10007.90	9004.88	10026.22	9517.61	10003.85	.01
*	17.608	190.00	1285.89	.00	.40	200.00	9983.70	10007.90	9004.88	10026.22	9311.85	10004.54	.04
	17.683	32.00	1285.58	.00	.10	390.00	9988.00	10011.38	9107.28	10033.23	9539.60	10010.53	.01
	17.683	190.00	1285.90	.00	.41	390.00	9988.00	10011.38	9107.28	10033.23	9451.63	10011.55	.04
	17.780	32.00	1285.58	.00	.09	510.00	9997.50	10024.32	9030.01	10098.67	9669.59	10084.47	.01
	17.780	190.00	1285.91	.00	.40	510.00	9997.50	10024.32	9030.01	10098.67	9662.46	10085.14	.04
*	17.834	32.00	1285.58	.00	.19	285.00	10001.76	10023.15	9012.63	10038.49	9613.80	10023.54	.02
*	17.834	190.00	1285.92	.00	.86	285.00	10001.76	10023.15	9012.63	10038.49	9469.32	10027.00	.08
	17.872	32.00	1285.58	.00	.16	200.00	10001.04	10023.87	9008.88	10038.05	9558.77	10022.27	.02
	17.872	190.00	1285.94	.00	.68	200.00	10001.04	10023.87	9008.88	10038.05	9442.50	10023.27	.07
	17.934	32.00	1285.58	.00	.10	320.00	9919.35	10031.63	9047.34	10035.79	9518.74	10026.42	.01
	17.934	190.00	1285.95	.00	.45	320.00	9919.35	10031.63	9047.34	10035.79	9431.09	10028.12	.05
*	17.984	32.00	1285.58	.00	.20	260.00	10005.09	10025.51	8965.39	10036.64	9604.44	10023.86	.02
*	17.984	190.00	1285.97	.00	.85	260.00	10005.09	10025.51	8965.39	10036.64	9531.42	10024.65	.08
	18.035	32.00	1285.58	.00	.21	270.00	9995.03	10020.63	9017.20	10020.63	9659.10	10020.63	.02
	18.035	190.00	1286.00	.00	.96	270.00	9995.03	10020.63	9017.20	10020.63	9515.58	10020.63	.10

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
*	18.074	32.00	1285.59	.00	.39	200.00	9968.03	10018.61	9045.14	10037.06	9955.95	10037.06	.06
*	18.074	190.00	1286.04	.00	1.66	200.00	9968.03	10018.61	9045.14	10037.06	9833.15	10037.06	.22
*	18.101	162.00	1285.59	.00	.06	140.00	9659.16	10029.04	9001.50	10029.04	9651.30	10023.43	.00
*	18.101	170.00	1286.09	.00	.06	140.00	9659.16	10029.04	9001.50	10029.04	9420.87	10027.21	.00
	18.150	162.00	1285.59	.00	.08	260.00	9968.01	10027.72	9009.44	10035.70	9405.72	10021.91	.01
	18.150	170.00	1286.09	.00	.07	260.00	9968.01	10027.72	9009.44	10035.70	9336.97	10024.27	.01
*	18.197	162.00	1285.59	.00	.04	250.00	9971.21	10030.95	9025.29	10042.23	9454.83	10024.03	.00
*	18.197	170.00	1286.09	.00	.04	250.00	9971.21	10030.95	9025.29	10042.23	9373.15	10026.40	.00
*	18.225	162.00	1285.59	.00	.60	150.00	9954.47	10030.15	9000.07	10030.15	9871.69	10021.24	.05
*	18.225	170.00	1286.09	.00	.56	150.00	9954.47	10030.15	9000.07	10030.15	9456.70	10025.01	.05
*	18.253	162.00	1285.59	.00	.63	150.00	9955.23	10029.72	9004.02	10029.72	9950.79	10018.66	.05
*	18.253	170.00	1286.09	.00	.58	150.00	9955.23	10029.72	9004.02	10029.72	9916.01	10021.94	.05
	18.291	162.00	1285.93	.00	.60	200.00	9957.82	10028.81	9023.61	10028.81	9933.30	10022.19	.05
	18.291	170.00	1286.36	.00	.57	200.00	9957.82	10028.81	9023.61	10028.81	9913.13	10025.17	.05
*	18.337	162.00	1285.94	.00	.64	245.00	9956.01	10029.95	9000.63	10029.95	9957.03	10022.27	.06
*	18.337	170.00	1286.37	.00	.61	245.00	9956.01	10029.95	9000.63	10029.95	9868.05	10025.70	
	18.384	162.00	1285.95	.00	.63	250.00	9957.73	10032.09	9000.48	10032.09	9958.54	10024.29	.06
	18.384	170.00	1286.38	.00	.59	250.00	9957.73	10032.09	9000.48	10032.09	9409.81	10027.58	.05
	18.428	162.00	1285.95	.00	.66	230.00	9956.90	10029.43	9004.03	10029.43	9805.93	10021.09	.06
	18.428	170.00	1286.38	.00	.60	230.00	9956.90	10029.43	9004.03	10029.43	9790.04	10023.83	.05
	18.487	162.00	1285.96	.00	.60	310.00	9959.30	10031.16	9230.52	10050.08	9964.03	10031.51	.05
	18.487	170.00	1286.38	.00	.57	310.00	9959.30	10031.16	9230.52	10050.08	9961.94	10039.01	.05
	18.721	162.00	1286.97	.00	.54	1235.00	9954.37	10020.49	9101.78	10020.49	9375.11	10019.52	.05
	18.721	170.00	1287.50	.00	.48	1235.00	9954.37	10020.49	9101.78	10020.49	9373.19	10020.49	.04
*	18.766	23.00	1286.98	.00	.10	235.00	9918.49	10023.52	9027.03	10023.52	9564.99	10017.48	.01
*	18.766	23.00	1287.50	.00	.07	235.00	9918.49	10023.52	9027.03	10023.52	9419.31	10023.52	.01
	18.821	23.00	1286.98	.00	.11	285.00	9919.78	10021.87	9226.71	10039.04	9595.84	10021.58	.01
	18.821	23.00	1287.50	.00	.08	285.00	9919.78	10021.87	9226.71	10039.04	9437.78	10039.04	.01
	18.861	23.00	1286.98	.00	.10	215.00	9918.00	10014.38	9029.49	10041.32	9713.94	10023.88	.01
	18.861	23.00	1287.50	.00	.07	215.00	9918.00	10014.38	9029.49	10041.32	9566.81	10038.57	.01
*	18.908	23.00	1286.98	.00	.13	245.00	9924.24	10022.16	8997.60	10022.16	9750.67	10016.80	.02
	18.908	23.00	1287.50	.00	.10	245.00	9924.24	10022.16	8997.60	10022.16	9593.87	10019.93	.01
	18.965	23.00	1286.98	.00	.14	300.00	9962.01	10020.15	9164.70	10020.15	9747.96	10012.94	
	18.965	23.00	1287.50	.00	.10	300.00	9962.01	10020.15	9164.70	10020.15	9645.48	10016.23	.01

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
	18.999	23.00	1286.98	.00	.12	180.00	9941.35	10018.77	9040.66	10018.77	9702.31	10011.15	.02
	18.999	23.00	1287.50	.00	.09	180.00	9941.35	10018.77	9040.66	10018.77	9508.27	10014.88	.01
*	19.088	23.00	1286.98	.00	.24	230.00	9990.52	10020.31	9006.91	10020.31	9770.21	10012.14	.02
*	19.088	23.00	1287.50	.00	.16	230.00	9990.52	10020.31	9006.91	10020.31	9530.18	10015.94	.02
*	19.151	23.00	1286.98	.00	.14	330.00	9975.85	10002.90	9122.89	10002.90	9639.25	9995.16	.02
*	19.151	23.00	1287.50	.00	.08	330.00	9975.85	10002.90	9122.89	10002.90	9526.15	9999.13	.01
	19.186	23.00	1286.98	.00	.26	290.00	9967.69	9999.03	9284.54	9999.03	9812.04	9995.06	.03
*	19.186	23.00	1287.50	.00	.21	290.00	9967.69	9999.03	9284.54	9999.03	9644.96	9996.92	.02
*	19.262	23.00	1287.98	.00	.11	395.00	9915.22	9997.83	9250.05	9997.83	9323.03	9997.83	.02
	19.262	23.00	1288.50	.00	.06	395.00	9915.22	9997.83	9250.05	9997.83	9316.17	9997.83	.01
	19.294	260.00	1287.98	.00	1.23	170.00	9914.00	10008.94	9073.21	10008.94	9510.81	10003.33	.14
	19.294	430.00	1288.49	.00	1.58	170.00	9914.00	10008.94	9073.21	10008.94	9383.43	10007.38	.17
	19.339	260.00	1288.04	.00	1.06	240.00	9920.75	10009.72	9007.08	10009.12	9586.18	10006.38	.11
	19.339	430.00	1288.58	.00	1.37	240.00	9920.75	10009.72	9007.08	10009.12	9430.03	10009.10	.13
	19.381	260.00	1288.08	.00	1.14	220.00	9927.80	10014.49	9010.35	10014.49	9830.82	10010.17	.12
	19.381	430.00	1288.63	.00	1.51	220.00	9927.80	10014.49	9010.35	10014.49	9603.64	10014.49	.15
	19.430	260.00	1288.14	.00	1.32	260.00	9930.36	10018.19	9015.00	10028.76	9569.62	10008.59	.15
	19.430	430.00	1288.72	.00	1.63	260.00	9930.36	10018.19	9015.00	10028.76	9520.02	10020.87	.17
	19.473	260.00	1288.21	.00	1.43	225.00	9934.65	10002.26	9011.24	10002.20	9474.66	9999.72	.15
	19.473	430.00	1288.80	.00	1.81	225.00	9934.65	10002.26	9011.24	10002.20	9402.81	10000.83	.18
	19.502	260.00	1288.29	.00	1.04	135.00	9682.41	9882.11	9062.40	10060.58	9333.15	9895.20	.21
*	19.502	430.00	1288.88	.00	.74	135.00	9682.41	9882.11	9062.40	10060.58	9219.90	9982.07	.11
	19.623	260.00	1288.42	.00	.76	635.00	9857.81	10019.43	9036.90	10033.49	9304.33	10033.49	.10
*	19.623	430.00	1288.93	.00	.87	635.00	9857.81	10019.43	9036.90	10033.49	9283.23	10033.49	.10
	19.670	260.00	1288.45	.00	.62	250.00	9864.02	10021.00	9002.38	10021.00	9676.13	10020.51	.09
	19.670	430.00	1288.97	.00	.75	250.00	9864.02	10021.00	9002.38	10021.00	9559.07	10021.00	.10
*	19.716	260.00	1288.48	.00	1.78	245.00	9860.09	10022.00	9000.80	10034.05	9881.82	10034.05	.31
*	19.716	430.00	1288.99	.00	1.88	245.00	9860.09	10022.00	9000.80	10034.05	9851.93	10034.05	.28
*	19.764	260.00	1288.70	.00	1.44	260.00	9919.86	10018.00	9020.39	10030.99	9323.04	10030.99	.21
*	19.764	430.00	1289.19	.00	1.68	260.00	9919.86	10018.00	9020.39	10030.99	9320.42	10030.99	.21
*	19.808	1.00	1288.85	.00	.12	230.00	9707.46	9907.64	9023.61	10100.02	9612.56	9853.72	.09
*	19.808	1.00	1289.29	.00	.01	230.00	9707.46	9907.64	9023.61	10100.02	9526.46	10082.63	.00
*	19.830	1.00	1288.85	.00	.02	115.00	9872.83	10008.00	9008.85	10008.39	9765.05	9998.22	.01
*	19.830	1.00	1289.29	.00	.01	115.00	9872.83	10008.00	9008.85	10008.39	9431.54	10004.45	.00

	SECND	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
*	19.871	1.00	1288.85	.00	.00	215.00	9959.58	10017.24	9254.10	10017.24	9771.14	10017.24	.00
*	19.871	1.00	1289.29	.00	.00	215.00	9959.58	10017.24	9254.10	10017.24	9744.63	10017.24	.00
*	19.924	1.00	1288.85	.00	.01	280.00	9958.10	10015.61	9117.84	10025.67	9941.54	10025.67	.00
*	19.924	1.00	1289.29	.00	.01	280.00	9958.10	10015.61	9117.84	10025.67	9343.29	10025.67	.00
	19.971	1.00	1288.85	.00	.01	245.00	9929.30	10011.97	9086.96	10020.70	9510.90	10020.70	.00
*	19.971	1.00	1289.29	.00	.00	245.00	9929.30	10011.97	9086.96	10020.70	9502.53	10020.70	.00
	20.015	1.00	1288.85	.00	.01	230.00	9924.76	10007.98	8969.58	10007.98	9384.96	10007.98	.00
*	20.015	1.00	1289.29	.00	.00	230.00	9924.76	10007.98	8969.58	10007.98	9380.46	10007.98	.00
*	20.051	1.00	1288.85	.00	.00	185.00	9907.29	10003.43	9002.74	10012.44	9477.29	10012.44	.00
*	20.051	1.00	1289.29	.00	.00	185.00	9907.29	10003.43	9002.74	10012.44	9467.85	10012.44	.00
*	20.082	1.00	1288.85	.00	.00	165.00	9917.57	9997.00	9002.24	10009.23	9571.67	10009.23	.00
*	20.082	1.00	1289.29	.00	.00	165.00	9917.57	9997.00	9002.24	10009.23	9504.64	10009.23	.00
*	20.139	1.00	1288.85	.00	.01	300.00	9965.25	9992.60	9015.22	10004.08	9580.42	10004.08	.00
*	20.139	1.00	1289.29	.00	.00	300.00	9965.25	9992.60	9015.22	10004.08	9490.72	10004.08	.00
	20.179	1.00	1288.85	.00	.01	210.00	9961.57	9988.98	9037.85	10000.45	9360.00	9988.22	.00
	20.179	1.00	1289.29	.00	.00	210.00	9961.57	9988.98	9037.85	10000.45	9358.06	10000.45	[illegible]
*	20.244	1.00	1288.85	.00	.02	345.00	9966.09	9997.04	8968.17	9997.04	9571.01	9994.46	.00
*	20.244	1.00	1289.29	.00	.01	345.00	9966.09	9997.04	8968.17	9997.04	9556.03	9996.29	.00
*	20.289	1.00	1288.85	.00	.02	240.00	9970.48	9996.73	9008.57	9996.73	9486.57	9994.03	.00
	20.289	1.00	1289.29	.00	.01	240.00	9970.48	9996.73	9008.57	9996.73	9457.85	9996.40	.00
*	20.324	1.00	1288.85	.00	.03	185.00	9988.26	9996.33	9011.17	9996.33	9408.82	9994.64	.01
*	20.324	1.00	1289.29	.00	.01	185.00	9988.26	9996.33	9011.17	9996.33	9395.81	9996.33	.00
*	20.379	1.00	1288.85	.00	.01	290.00	9577.71	9818.03	8935.41	10119.62	9540.47	9837.49	.00
*	20.379	1.00	1289.29	.00	.00	290.00	9577.71	9818.03	8935.41	10119.62	9457.72	9865.80	.00
*	20.393	35.00	1288.85	.00	.02	70.00	9977.17	10003.90	9004.83	10003.90	9794.54	9992.90	.01
*	20.393	85.00	1289.29	.00	.06	70.00	9977.17	10003.90	9004.83	10003.90	9793.26	9999.09	.01
*	20.432	35.00	1288.85	.00	.01	205.00	9982.20	9999.53	9017.22	9999.53	9648.66	9996.30	.00
*	20.432	85.00	1289.29	.00	.02	205.00	9982.20	9999.53	9017.22	9999.53	9618.13	9999.53	.01
*	20.465	35.00	1288.85	.00	.68	175.00	9989.00	10004.09	9016.28	10004.09	9676.68	10000.29	.41
*	20.465	85.00	1289.29	.00	.75	175.00	9989.00	10004.09	9016.28	10004.09	9567.73	10004.09	.20
*	20.515	35.00	1289.00	.00	.36	265.00	9983.44	9998.91	9001.43	9998.91	9782.26	9995.35	.11
	20.515	85.00	1289.43	.00	.75	265.00	9983.44	9998.91	9001.43	9998.91	9765.94	9998.91	.16
	20.559	35.00	1289.06	.00	.63	230.00	9975.40	10001.77	8999.96	10001.77	9699.84	9998.81	[illegible]
	20.559	85.00	1289.53	.00	1.00	230.00	9975.40	10001.77	8999.96	10001.77	9691.45	10001.77	.18

	SECND	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
*	20.608	35.00	1289.12	.00	.20	260.00	9974.70	10013.23	9022.90	10053.40	9800.07	10048.96	.12
*	20.608	85.00	1289.59	.00	.37	260.00	9974.70	10013.23	9022.90	10053.40	9666.95	10050.41	.10
	20.651	35.00	1289.17	.00	.30	225.00	9973.40	10008.85	9010.39	10008.85	9805.45	10008.85	.11
	20.651	85.00	1289.65	.00	.70	225.00	9973.40	10008.85	9010.39	10008.85	9668.50	10008.85	.15
*	20.676	35.00	1289.22	.00	.56	130.00	9975.30	10012.71	9003.65	10012.71	9885.68	10007.40	.21
*	20.676	85.00	1289.71	.00	1.13	130.00	9975.30	10012.71	9003.65	10012.71	9789.59	10012.71	.24
*	20.727	35.00	1289.26	.00	.25	270.00	9964.10	9999.21	9003.63	10013.63	9643.94	10002.33	.05
*	20.727	85.00	1289.76	.00	.40	270.00	9964.10	9999.21	9003.63	10013.63	9613.97	10013.63	.07
*	20.768	35.00	1289.27	.00	.43	215.00	9964.10	10003.40	9059.38	10003.40	9648.57	10003.06	.08
*	20.768	85.00	1289.78	.00	.55	215.00	9964.10	10003.40	9059.38	10003.40	9618.77	10003.40	.08
*	20.815	35.00	1289.29	.00	.35	250.00	9938.35	10001.11	9006.72	10001.11	9814.95	9999.91	.05
	20.815	85.00	1289.80	.00	.57	250.00	9938.35	10001.11	9006.72	10001.11	9584.62	10001.11	.08
*	20.870	35.00	1289.31	.00	1.03	285.00	9976.09	9998.80	9161.44	9998.80	9856.85	9998.52	.23
*	20.870	85.00	1289.84	.00	1.51	285.00	9976.09	9998.80	9161.44	9998.80	9627.35	9998.80	.25
	20.912	35.00	1289.45	.00	.80	220.00	9975.03	9998.46	9129.50	9998.46	9656.36	9997.22	.17
*	20.912	85.00	1289.97	.00	1.02	220.00	9975.03	9998.46	9129.50	9998.46	9594.18	9998.46	.17
*	20.963	130.00	1290.93	1290.93	2.86	270.00	9560.16	9708.11	9066.97	10078.19	9470.40	9697.24	.95
*	20.963	330.00	1291.13	1291.13	3.39	270.00	9560.16	9708.11	9066.97	10078.19	9345.77	9730.89	.88
*	20.974	130.00	1291.08	.00	.25	60.00	9829.16	9993.98	9022.06	10044.21	9362.10	9978.78	.03
*	20.974	330.00	1291.33	.00	.54	60.00	9829.16	9993.98	9022.06	10044.21	9306.60	9982.25	.06
*	21.020	130.00	1291.08	.00	.15	245.00	9649.51	10003.58	9011.58	10003.58	9384.93	10002.08	.02
*	21.020	330.00	1291.34	.00	.33	245.00	9649.51	10003.58	9011.58	10003.58	9346.96	10003.58	.04
*	21.088	130.00	1291.08	.00	.10	360.00	9776.85	10007.08	9017.40	10022.22	9473.80	10003.75	.01
*	21.088	330.00	1291.34	.00	.23	360.00	9776.85	10007.08	9017.40	10022.22	9370.15	10022.22	.02
*	21.137	130.00	1291.08	.00	.29	260.00	9901.87	10011.60	9022.85	10025.70	9637.47	10011.50	.05
*	21.137	330.00	1291.34	.00	.60	260.00	9901.87	10011.60	9022.85	10025.70	9586.26	10024.15	.09
*	21.196	130.00	1291.09	.00	.69	310.00	9925.89	10007.46	9011.96	10018.43	9653.17	10003.60	.13
*	21.196	330.00	1291.38	.00	1.30	310.00	9925.89	10007.46	9011.96	10018.43	9643.39	10018.43	.22
	21.256	130.00	1291.14	.00	.79	315.00	9866.98	10003.69	9000.51	10011.33	9878.49	9988.94	.11
	21.256	330.00	1291.53	.00	1.56	315.00	9866.98	10003.69	9000.51	10011.33	9743.63	9998.43	.22
*	21.315	130.00	1291.23	.00	1.53	310.00	9905.73	10002.22	9019.74	10002.22	9472.74	10000.09	.31
	21.315	330.00	1291.74	.00	1.55	310.00	9905.73	10002.22	9019.74	10002.22	9396.79	10002.22	.25
*	21.375	130.00	1291.29	.00	.26	315.00	9716.69	10001.86	9010.97	10001.86	9530.71	10001.86	.04
*	21.375	330.00	1291.80	.00	.45	315.00	9716.69	10001.86	9010.97	10001.86	9450.18	10001.86	.05

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
	21.432	130.00	1291.30	.00	.26	300.00	9757.49	10000.00	9006.11	10015.26	9559.10	10007.58	.04
	21.432	330.00	1291.81	.00	.45	300.00	9757.49	10000.00	9006.11	10015.26	9498.40	10015.26	.06
*	21.463	130.00	1291.31	.00	.00	165.00	9951.10	10008.81	9026.10	10008.81	9513.05	9854.57	.00
*	21.463	330.00	1291.82	.00	.13	165.00	9951.10	10008.81	9026.10	10008.81	9462.52	10008.81	.07
*	21.492	1.00	1291.34	.00	.21	150.00	9551.94	9729.36	9017.86	10072.56	9590.77	9672.18	.16
*	21.492	1.00	1291.87	.00	.01	150.00	9551.94	9729.36	9017.86	10072.56	9353.92	9751.39	.00
*	21.603	1.00	1291.35	.00	.00	590.00	9959.68	9995.83	9001.56	10010.59	9569.54	10010.59	.00
*	21.603	1.00	1291.87	.00	.00	590.00	9959.68	9995.83	9001.56	10010.59	9349.70	10010.59	.00
*	21.665	1.00	1291.35	.00	.01	325.00	9934.74	9997.97	9019.86	9997.97	9644.38	9997.97	.00
*	21.665	1.00	1291.87	.00	.00	325.00	9934.74	9997.97	9019.86	9997.97	9494.04	9997.97	.00
*	21.716	1.00	1291.35	.00	.01	270.00	9943.65	10000.00	9005.04	10015.34	9704.99	10015.34	.00
*	21.716	1.00	1291.87	.00	.01	270.00	9943.65	10000.00	9005.04	10015.34	9644.49	10015.34	.00
	21.774	1.00	1291.35	.00	.00	305.00	9975.57	10008.72	9025.40	9975.57	9675.86	9975.57	.00
	21.774	1.00	1291.87	.00	.00	305.00	9975.57	10008.72	9025.40	9975.57	9618.83	9975.57	.00
	21.819	1.00	1291.35	.00	.01	240.00	9978.28	9999.40	9000.01	9999.40	9593.16	9998.72	.00
	21.819	1.00	1291.87	.00	.00	240.00	9978.28	9999.40	9000.01	9999.40	9568.18	9999.40	
*	21.859	1.00	1291.35	.00	.01	205.00	9965.17	10001.22	9006.83	10001.22	9588.61	9999.51	.00
*	21.859	1.00	1291.87	.00	.01	205.00	9965.17	10001.22	9006.83	10001.22	9438.87	10001.22	.00
	21.914	1.00	1291.35	.00	.02	290.00	9977.06	10001.79	9017.30	10001.79	9916.22	10001.79	.00
*	21.914	1.00	1291.87	.00	.01	290.00	9977.06	10001.79	9017.30	10001.79	9403.12	10001.79	.00
*	21.963	1.00	1291.35	.00	.01	260.00	9952.57	10004.09	9021.44	10017.58	9506.40	10017.58	.00
*	21.963	1.00	1291.87	.00	.00	260.00	9952.57	10004.09	9021.44	10017.58	9468.27	10017.58	.00
	22.014	1.00	1291.35	.00	.01	270.00	9938.60	10002.82	9010.69	10013.57	9669.90	10001.32	.00
	22.014	1.00	1291.87	.00	.00	270.00	9938.60	10002.82	9010.69	10013.57	9570.58	10002.73	.00
	22.063	1.00	1291.35	.00	.01	260.00	9907.40	9993.20	9000.75	9993.20	9696.62	9992.46	.00
	22.063	1.00	1291.87	.00	.00	260.00	9907.40	9993.20	9000.75	9993.20	9619.25	9993.20	.00
	22.112	1.00	1291.35	.00	.01	260.00	9933.17	9986.58	9039.32	9997.79	9687.83	9985.54	.00
	22.112	1.00	1291.87	.00	.01	260.00	9933.17	9986.58	9039.32	9997.79	9659.37	9992.37	.00
*	22.208	100.00	1292.92	1292.92	2.30	510.00	9499.34	9768.90	9016.88	10095.50	9512.88	9793.71	1.00
*	22.208	275.00	1293.08	1293.08	2.84	510.00	9499.34	9768.90	9016.88	10095.50	9356.40	9834.90	.88
*	22.236	100.00	1293.03	.00	.23	150.00	9800.00	9983.35	9010.16	9983.35	9475.97	9979.80	.03
*	22.236	275.00	1293.26	.00	.56	150.00	9800.00	9983.35	9010.16	9983.35	9426.77	9980.49	.07
*	22.283	100.00	1293.66	1293.66	3.89	250.00	9956.00	9987.06	9063.66	9987.06	9381.59	9980.14	
*	22.283	275.00	1293.88	1293.88	5.19	250.00	9956.00	9987.06	9063.66	9987.06	9357.32	9981.66	1.02

	SECNO	Q	CWSEL	CRIWS	VCH	XLCH	STCHL	STCHR	STENCL	STENCR	SSTA	ENDST	FRCH
*	22.304	100.00	1293.94	.00	1.12	110.00	9955.98	9989.54	8978.95	9989.54	9788.75	9987.45	.15
*	22.304	275.00	1294.33	.00	1.93	110.00	9955.98	9989.54	8978.95	9989.54	9187.67	9989.54	.24
*	22.350	100.00	1293.98	.00	.43	250.00	9950.90	9991.10	9021.40	10003.25	9445.15	9990.82	.05
*	22.350	275.00	1294.43	.00	.84	250.00	9950.90	9991.10	9021.40	10003.25	9421.84	10003.25	.09
	22.401	100.00	1293.99	.00	.44	270.00	9968.44	9994.80	9026.36	9994.84	9654.36	9994.27	.06
	22.401	275.00	1294.46	.00	.96	270.00	9968.44	9994.80	9026.36	9994.84	9340.34	9994.84	.11
	22.444	100.00	1294.00	.00	.33	225.00	9969.60	9998.18	9002.55	10009.46	9507.37	10004.24	.04
	22.444	275.00	1294.49	.00	.72	225.00	9969.60	9998.18	9002.55	10009.46	9498.29	10009.46	.08
	22.488	100.00	1294.01	.00	.40	230.00	9981.28	10010.64	9019.41	10019.33	9503.72	10017.13	.05
	22.488	275.00	1294.52	.00	.86	230.00	9981.28	10010.64	9019.41	10019.33	9154.69	10019.33	.10
*	22.541	215.00	1294.02	.00	.29	280.00	9967.90	10004.28	9001.96	10004.28	9215.19	10001.11	.04
*	22.541	305.00	1294.53	.00	.30	280.00	9967.90	10004.28	9001.96	10004.28	9201.84	10003.43	.04
*	22.571	215.00	1294.02	.00	.06	160.00	9553.32	10006.71	9001.95	10013.49	9015.72	10002.84	.00
*	22.571	305.00	1294.53	.00	.08	160.00	9553.32	10006.71	9001.95	10013.49	9011.43	10006.56	.01
	22.609	215.00	1294.02	.00	.06	200.00	9551.24	10005.00	9009.19	10005.18	9269.63	10004.40	.00
	22.609	305.00	1294.53	.00	.08	200.00	9551.24	10005.00	9009.19	10005.18	9233.19	10005.18	.01
*	22.636	215.00	1294.01	.00	1.81	140.00	9982.10	10005.58	9004.69	10005.58	9335.11	10004.90	.27
*	22.636	305.00	1294.53	.00	1.80	140.00	9982.10	10005.58	9004.69	10005.58	9233.25	10005.58	.23
*	22.695	215.00	1294.10	.00	.73	310.00	9984.20	10003.42	9001.94	10003.42	9493.62	10003.13	.10
*	22.695	305.00	1294.60	.00	.86	310.00	9984.20	10003.42	9001.94	10003.42	9230.21	10003.42	.10
	22.744	215.00	1294.12	.00	.62	260.00	9973.00	10007.96	9007.66	10007.96	9332.44	10007.96	.09
	22.744	305.00	1294.63	.00	.71	260.00	9973.00	10007.96	9007.66	10007.96	9312.87	10007.96	.09
	22.798	215.00	1294.15	.00	.88	285.00	9955.70	9992.85	9001.51	9999.41	9318.20	9993.72	.09
	22.798	305.00	1294.65	.00	.90	285.00	9955.70	9992.85	9001.51	9999.41	9177.25	9999.41	.09
*	22.849	215.00	1294.18	.00	1.79	270.00	9966.70	9991.72	9029.45	10000.74	9257.00	9991.98	.22
*	22.849	305.00	1294.68	.00	1.46	270.00	9966.70	9991.72	9029.45	10000.74	9175.45	9999.56	.16
*	22.932	215.00	1294.24	.00	.20	220.00	9963.16	10009.00	9196.32	10009.00	9246.62	9998.88	.06
*	22.932	305.00	1294.71	.00	.25	220.00	9963.16	10009.00	9196.32	10009.00	9196.32	10009.00	.05
*	22.976	215.00	1294.24	.00	.23	230.00	9924.16	9994.68	9435.23	10009.51	9439.60	9994.51	.02
*	22.976	305.00	1294.71	.00	.27	230.00	9924.16	9994.68	9435.23	10009.51	9436.48	10009.51	.02

EASTERN CANAL-PROF. 1

SUMMARY PRINTOUT

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
	16.422	157.59	32.41	.00	1.43	1.26	.00	1281.88	1279.84	.00	126.27	1277.57	1.01
	16.422	179.71	35.29	.00	1.48	1.30	.00	1281.88	1279.94	.00	130.62	1277.57	1.01
	16.458	44.17	145.83	.00	1.06	2.27	.00	1282.59	1279.97	.13	111.45	1275.60	1.31
	16.458	59.46	155.54	.00	1.17	2.35	.00	1282.59	1280.07	.13	112.77	1275.60	1.30
	16.493	.00	190.00	.00	.00	2.30	.00	1283.43	1281.71	1.73	22.46	1276.00	1.00
*	16.493	179.59	35.41	.00	.24	.36	.00	1283.43	1282.40	2.32	714.07	1276.00	1.07
*	16.549	158.42	31.40	.17	.39	.64	.15	1282.40	1281.90	.19	530.96	1279.20	1.13
*	16.549	181.59	30.50	2.91	.26	.47	.32	1282.40	1282.41	.01	655.25	1279.20	1.15
*	16.606	84.63	105.37	.00	1.04	3.79	.00	1280.90	1281.98	.08	262.85	1278.97	2.80
*	16.606	148.06	66.94	.00	.68	1.89	.00	1280.90	1282.44	.04	366.53	1278.97	1.97
*	16.662	140.99	49.00	.00	.47	1.16	.00	1279.87	1282.48	.50	500.13	1279.07	1.64
*	16.662	167.49	47.51	.00	.45	1.03	.00	1279.87	1282.63	.19	519.38	1279.07	[illegible]
*	16.723	10.47	49.53	.00	.40	.76	.00	1279.85	1282.60	.13	151.57	1278.74	1.17
*	16.723	18.07	56.93	.00	.46	.79	.00	1279.85	1282.73	.10	176.47	1278.74	1.16
	16.772	.00	60.00	.00	.00	.74	.00	1278.84	1282.67	.07	45.99	1278.84	1.00
	16.772	.00	75.00	.00	.00	.86	.00	1278.84	1282.80	.07	45.99	1278.84	1.00
*	16.852	55.83	4.17	.00	.11	.12	.00	1280.00	1282.69	.02	456.00	1279.10	1.00
*	16.852	70.06	4.94	.00	.12	.13	.00	1280.00	1282.82	.02	479.05	1279.10	1.00
*	16.921	.00	60.00	.00	.00	1.39	.00	1283.87	1282.68	-.01	18.04	1278.82	1.00
*	16.921	.00	75.00	.00	.00	1.64	.00	1283.87	1282.81	-.01	18.49	1278.82	1.00
*	16.939	47.34	12.66	.00	.17	.22	.00	1283.87	1283.35	.67	450.67	1278.32	1.04
*	16.939	63.89	11.11	.00	.12	.17	.00	1283.87	1283.86	1.05	525.88	1278.32	1.04
*	17.014	37.51	22.49	.00	.26	.50	.00	1279.52	1283.35	.01	243.36	1278.66	1.32
*	17.014	56.33	18.67	.00	.21	.33	.00	1279.52	1283.86	.00	283.52	1278.66	1.12
	17.160	.00	45.00	.00	.00	.42	.00	1279.50	1284.26	.91	38.13	1278.54	1.00
*	17.160	48.13	1.87	.00	.02	.01	.00	1279.50	1284.98	1.12	665.15	1276.84	1.02
*	17.183	44.91	.09	.00	.01	.00	.00	1280.80	1284.26	.00	697.55	1268.10	1.01
*	17.183	49.86	.14	.00	.01	.00	.00	1280.80	1284.98	.00	727.86	1268.10	1.01
*	17.256	44.84	.16	.00	.01	.00	.00	1280.26	1284.26	.00	734.78	1269.94	1.01
*	17.256	49.78	.22	.00	.01	.00	.00	1280.26	1284.98	.00	745.50	1269.94	[illegible]
*	17.277	5.03	39.97	.00	.06	.14	.00	1280.82	1284.26	.00	328.21	1278.19	1.18
*	17.277	14.74	35.26	.00	.05	.09	.00	1280.82	1284.98	.00	457.77	1278.19	1.21

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	17.325	10.16	34.84	.00	.15	.48	.00	1280.20	1284.27	.00	151.40	1278.61	1.53
*	17.325	20.90	29.10	.00	.11	.32	.00	1280.20	1284.98	.00	252.06	1278.61	2.11
*	17.435	28.42	16.58	.00	.15	.24	.00	1282.25	1284.28	.01	251.24	1279.06	1.19
*	17.435	36.89	13.11	.00	.09	.16	.00	1282.25	1284.99	.00	364.33	1279.06	1.18
	17.485	6.32	38.68	.00	.10	.33	.00	1280.79	1284.28	.00	188.29	1279.10	1.58
*	17.485	16.92	33.08	.00	.08	.23	.00	1280.79	1284.99	.00	309.43	1279.10	1.82
*	17.570	.00	32.00	.00	.00	.67	.00	1284.37	1284.29	.01	23.48	1280.10	1.00
*	17.570	58.48	131.52	.00	.95	2.00	.00	1284.37	1285.00	.01	163.48	1279.77	1.37
*	17.608	26.71	5.29	.00	.06	.09	.00	1283.93	1285.58	1.29	486.24	1280.31	1.12
*	17.608	164.52	25.48	.00	.26	.40	.00	1283.93	1285.89	.89	492.69	1280.31	1.07
	17.683	25.75	6.25	.00	.06	.10	.00	1286.10	1285.58	.00	470.93	1280.31	1.15
	17.683	159.87	30.13	.00	.26	.41	.00	1286.10	1285.90	.01	559.92	1280.31	1.09
	17.780	19.64	6.29	6.07	.05	.09	.10	1286.56	1285.58	.00	392.88	1280.31	1.32
	17.780	123.25	32.04	34.72	.24	.40	.45	1286.56	1285.91	.01	402.78	1280.31	1.26
*	17.834	19.94	12.06	.00	.05	.19	.00	1286.23	1285.58	.00	409.74	1280.30	3.20
*	17.834	128.92	60.92	.15	.23	.86	.21	1286.23	1285.92	.01	557.68	1280.30	2.96
	17.872	22.62	9.38	.00	.04	.16	.00	1286.35	1285.58	.00	463.49	1280.30	2.73
	17.872	143.51	46.49	.00	.21	.68	.00	1286.35	1285.94	.02	580.77	1280.30	2.36
	17.934	11.24	20.76	.00	.03	.10	.00	1281.00	1285.58	.00	507.68	1280.30	2.16
	17.934	76.86	113.14	.00	.14	.45	.00	1281.00	1285.95	.02	597.03	1280.30	2.18
*	17.984	20.50	11.50	.00	.05	.20	.00	1281.78	1285.58	.00	419.42	1280.31	3.47
*	17.984	135.41	54.59	.00	.23	.85	.00	1281.78	1285.97	.01	493.23	1280.31	2.84
	18.035	19.66	12.34	.00	.06	.21	.00	1285.40	1285.58	.00	361.52	1281.09	2.51
	18.035	124.04	65.96	.00	.27	.96	.00	1285.40	1286.00	.03	505.04	1281.09	2.89
*	18.074	4.17	27.37	.46	.34	.39	.15	1282.04	1285.59	.00	81.11	1281.86	1.04
*	18.074	24.93	152.52	12.55	1.33	1.66	1.12	1282.04	1286.04	.04	98.43	1281.86	1.04
*	18.101	.01	161.99	.00	.00	.06	.00	1286.03	1285.59	.00	372.13	1274.78	1.00
*	18.101	.09	169.91	.00	.01	.06	.00	1286.03	1286.09	.05	406.11	1274.78	1.01
	18.150	143.15	18.85	.00	.07	.08	.00	1286.88	1285.59	.00	561.33	1275.85	1.00
	18.150	149.97	20.03	.00	.07	.07	.00	1286.88	1286.09	.00	687.30	1275.85	1.00
*	18.197	151.50	10.50	.00	.04	.04	.00	1286.23	1285.59	.00	569.20	1275.85	1.00
*	18.197	158.61	11.39	.00	.04	.04	.00	1286.23	1286.09	.00	653.26	1275.85	1.00
*	18.225	.07	161.93	.00	.01	.60	.00	1286.97	1285.59	.00	113.87	1276.21	1.06
*	18.225	.76	169.24	.00	.01	.56	.00	1286.97	1286.09	.00	245.47	1276.21	1.43

	SECND	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	18.253	.01	161.99	.00	.03	.63	.00	1286.70	1285.59	.01	67.87	1276.15	1.00
*	18.253	1.06	168.94	.00	.11	.58	.00	1286.70	1286.09	.01	105.92	1276.15	1.05
	18.291	.89	161.11	.00	.12	.60	.00	1286.03	1285.93	.34	88.89	1276.35	1.04
	18.291	3.21	166.79	.00	.15	.57	.00	1286.03	1286.36	.27	112.04	1276.35	1.09
*	18.337	.00	162.00	.00	.00	.64	.00	1286.93	1285.94	.02	65.24	1276.30	1.00
*	18.337	.00	170.00	.00	.00	.61	.00	1286.93	1286.37	.01	80.72	1276.30	1.01
	18.384	.00	162.00	.00	.00	.63	.00	1286.74	1285.95	.01	65.75	1276.23	1.00
	18.384	.09	169.91	.00	.01	.59	.00	1286.74	1286.38	.00	154.13	1276.23	1.05
	18.428	2.33	159.67	.00	.11	.66	.00	1286.30	1285.95	.00	125.28	1276.83	1.14
	18.428	6.99	163.01	.00	.13	.60	.00	1286.30	1286.38	.00	155.13	1276.83	1.27
	18.487	.00	162.00	.00	.00	.60	.00	1286.17	1285.96	.01	67.48	1276.72	1.00
	18.487	.00	169.86	.14	.00	.57	.08	1286.17	1286.38	.01	77.08	1276.72	1.01
	18.721	15.37	146.63	.00	.03	.54	.00	1287.11	1286.97	1.01	511.50	1279.20	5.85
	18.721	24.09	145.91	.00	.03	.48	.00	1287.11	1287.50	1.11	641.03	1279.20	7.71
*	18.766	2.16	20.84	.00	.01	.10	.00	1287.16	1286.98	.01	452.50	1283.70	[illegible]
*	18.766	3.13	19.87	.00	.01	.07	.00	1287.16	1287.50	.00	575.17	1283.70	[illegible]
	18.821	1.88	21.12	.00	.01	.11	.00	1285.76	1286.98	.00	425.74	1283.26	3.77
	18.821	2.80	19.98	.22	.01	.08	.03	1285.76	1287.50	.00	591.37	1283.26	5.08
	18.861	5.86	17.10	.04	.03	.10	.03	1285.10	1286.98	.00	309.94	1283.30	1.72
	18.861	6.55	16.18	.26	.02	.07	.02	1285.10	1287.50	.00	471.76	1283.30	2.31
*	18.908	4.02	18.98	.00	.03	.13	.00	1284.13	1286.98	.00	266.13	1283.68	2.40
	18.908	4.72	18.28	.00	.02	.10	.00	1284.13	1287.50	.00	426.06	1283.68	2.99
	18.965	8.98	14.02	.00	.06	.14	.00	1284.70	1286.98	.00	264.98	1280.20	1.51
	18.965	10.46	12.54	.00	.04	.10	.00	1284.70	1287.50	.00	370.75	1280.20	1.86
	18.999	7.49	15.51	.00	.05	.12	.00	1287.86	1286.98	.00	293.01	1280.40	1.64
	18.999	8.55	14.45	.00	.03	.09	.00	1287.86	1287.50	.00	444.57	1280.40	2.14
*	19.088	8.72	14.28	.00	.05	.24	.00	1288.09	1286.98	.00	241.93	1281.27	3.73
*	19.088	11.66	11.34	.00	.04	.16	.00	1288.09	1287.50	.00	437.55	1281.27	3.91
*	19.151	15.08	7.92	.00	.06	.14	.00	1285.00	1286.98	.00	355.91	1281.60	1.85
*	19.151	17.93	5.07	.00	.04	.08	.00	1285.00	1287.50	.00	472.98	1281.60	1.34
	19.186	.43	22.57	.00	.01	.26	.00	1286.14	1286.98	.00	183.02	1282.27	2.51
*	19.186	1.44	21.56	.00	.01	.21	.00	1286.14	1287.50	.00	231.41	1282.27	5.07
*	19.262	8.19	14.81	.00	.05	.11	.00	1285.20	1287.98	.99	463.33	1282.69	[illegible]
	19.262	12.54	10.46	.00	.03	.06	.00	1285.20	1288.50	1.00	627.21	1282.69	1.38

	SECND	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
	19.294	4.33	255.67	.00	.12	1.23	.00	1288.70	1287.98	.01	213.50	1283.17	1.32
	19.294	25.76	404.24	.00	.14	1.58	.00	1288.70	1288.49	.00	576.27	1283.17	2.51
	19.339	10.28	249.72	.00	.09	1.06	.00	1288.70	1288.04	.06	316.28	1281.10	1.88
	19.339	42.93	387.07	.00	.15	1.37	.00	1288.70	1288.58	.08	490.95	1281.10	2.94
	19.381	7.67	252.33	.00	.12	1.14	.00	1288.53	1288.08	.04	163.94	1282.84	1.49
	19.381	25.36	404.64	.00	.17	1.51	.00	1288.53	1288.63	.05	364.87	1282.84	2.05
	19.430	8.98	251.02	.00	.13	1.32	.00	1287.44	1288.14	.06	218.61	1282.67	1.67
	19.430	39.08	390.91	.02	.18	1.63	.15	1287.44	1288.72	.09	466.89	1282.67	2.73
	19.473	6.07	253.93	.00	.11	1.43	.00	1289.15	1288.21	.07	239.38	1282.50	1.62
	19.473	38.61	391.39	.00	.16	1.81	.00	1289.15	1288.80	.09	519.09	1282.50	3.35
	19.502	106.34	153.49	.17	.79	1.04	.20	1289.10	1288.29	.08	562.05	1287.27	1.06
*	19.502	222.27	198.07	9.66	.59	.74	.33	1289.10	1288.88	.08	762.16	1287.27	1.06
	19.623	47.29	212.70	.00	.25	.76	.02	1286.80	1288.42	.13	386.61	1283.90	1.58
*	19.623	116.25	313.65	.11	.33	.87	.03	1286.80	1288.93	.05	627.36	1283.90	1.62
	19.670	125.64	134.36	.00	.46	.62	.00	1286.88	1288.45	.03	326.38	1285.94	1.07
	19.670	212.85	217.15	.00	.57	.75	.00	1286.88	1288.97	.03	360.45	1285.94	1.06
*	19.716	.00	258.89	1.11	.00	1.78	.98	1286.05	1288.48	.03	142.46	1285.64	1.00
*	19.716	.00	421.75	8.25	.01	1.88	1.17	1286.05	1288.99	.03	172.89	1285.64	1.01
*	19.764	50.55	207.48	1.97	.31	1.44	.60	1287.30	1288.70	.22	263.72	1286.33	2.38
*	19.764	99.40	320.60	10.00	.42	1.68	1.05	1287.30	1289.19	.19	273.65	1286.33	2.26
*	19.808	.00	1.00	.00	.01	.12	.00	1289.46	1288.85	.15	127.73	1288.70	1.02
*	19.808	.35	.62	.03	.01	.01	.00	1289.46	1289.29	.10	552.71	1288.70	1.09
*	19.830	.01	.99	.00	.00	.02	.00	1287.20	1288.85	.00	65.36	1286.88	1.17
*	19.830	.10	.90	.00	.00	.01	.00	1287.20	1289.29	.00	292.96	1286.88	1.32
*	19.871	.78	.22	.00	.00	.00	.00	1286.83	1288.85	.00	246.10	1285.47	1.03
*	19.871	.78	.22	.00	.00	.00	.00	1286.83	1289.29	.00	272.61	1285.47	1.02
*	19.924	.01	.97	.02	.00	.01	.00	1287.13	1288.85	.00	84.13	1284.84	1.18
*	19.924	.03	.93	.05	.00	.01	.01	1287.13	1289.29	.00	166.37	1284.84	1.33
	19.971	.62	.38	.00	.01	.01	.00	1287.09	1288.85	.00	271.51	1285.40	1.01
*	19.971	.65	.34	.01	.00	.00	.00	1287.09	1289.29	.00	387.09	1285.40	1.02
	20.015	.78	.22	.00	.01	.01	.00	1286.97	1288.85	.00	132.89	1285.50	1.20
*	20.015	.69	.31	.00	.01	.00	.00	1286.97	1289.29	.00	156.51	1285.50	1.13
*	20.051	.95	.05	.00	.00	.00	.00	1286.00	1288.85	.00	490.96	1284.08	1.05
*	20.051	.94	.06	.00	.00	.00	.00	1286.00	1289.29	.00	511.06	1284.08	1.04

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	20.082	.83	.17	.00	.00	.00	.00	1285.21	1288.85	.00	437.56	1285.21	1.02
*	20.082	.81	.18	.01	.00	.00	.00	1285.21	1289.29	.00	504.59	1285.21	1.01
*	20.139	.71	.28	.01	.00	.01	.00	1285.74	1288.85	.00	403.58	1284.99	2.27
*	20.139	.75	.23	.02	.00	.00	.00	1285.74	1289.29	.00	513.36	1284.99	2.03
	20.179	.71	.29	.00	.00	.01	.00	1285.45	1288.85	.00	501.88	1285.00	3.79
	20.179	.77	.22	.00	.00	.00	.00	1285.45	1289.29	.00	560.53	1285.00	2.63
*	20.244	.59	.41	.00	.01	.02	.00	1285.49	1288.85	.00	267.06	1285.38	1.25
*	20.244	.75	.25	.00	.00	.01	.00	1285.49	1289.29	.00	352.84	1285.38	1.19
*	20.289	.57	.43	.00	.00	.02	.00	1287.66	1288.85	.00	342.37	1285.18	6.72
	20.289	.66	.34	.00	.00	.01	.00	1287.66	1289.29	.00	538.55	1285.18	5.67
*	20.324	.88	.12	.00	.01	.03	.00	1288.70	1288.85	.00	172.74	1285.68	2.25
*	20.324	.92	.08	.00	.00	.01	.00	1288.70	1289.29	.00	501.68	1285.68	1.71
*	20.379	.02	.97	.01	.00	.01	.00	1290.30	1288.85	.00	297.01	1288.18	1.05
*	20.379	.08	.89	.04	.00	.00	.00	1290.30	1289.29	.00	408.08	1288.18	1.10
*	20.393	34.86	.14	.00	.09	.02	.00	1290.70	1288.85	.00	174.58	1283.72	[illegible]
*	20.393	84.19	.81	.00	.18	.06	.00	1290.70	1289.29	.00	205.83	1283.72	[illegible]
*	20.432	34.98	.02	.00	.04	.01	.00	1290.50	1288.85	.00	347.64	1283.31	1.01
*	20.432	84.76	.24	.00	.09	.02	.00	1290.50	1289.29	.00	381.40	1283.31	1.01
*	20.465	34.36	.64	.00	.62	.68	.00	1290.43	1288.85	.00	160.51	1287.59	1.00
*	20.465	79.93	5.07	.00	.51	.75	.00	1290.43	1289.29	.00	351.52	1287.59	1.03
*	20.515	33.51	1.49	.00	.17	.36	.00	1289.30	1289.00	.15	213.09	1287.15	1.11
	20.515	77.44	7.56	.00	.27	.75	.00	1289.30	1289.43	.14	232.97	1287.15	1.43
	20.559	27.13	7.87	.00	.20	.63	.00	1289.16	1289.06	.06	166.38	1287.67	2.17
	20.559	60.49	24.51	.00	.25	1.00	.00	1289.16	1289.53	.10	310.31	1287.67	3.19
*	20.608	14.27	.67	20.06	.11	.20	.65	1290.75	1289.12	.06	226.81	1287.98	5.47
*	20.608	33.87	6.27	44.86	.15	.37	.94	1290.75	1289.59	.07	309.43	1287.98	5.77
	20.651	32.59	2.41	.00	.18	.30	.00	1289.15	1289.17	.05	203.40	1287.62	1.06
	20.651	67.23	17.77	.00	.24	.70	.00	1289.15	1289.65	.06	279.02	1287.62	1.88
*	20.676	30.87	4.13	.00	.34	.56	.00	1288.15	1289.22	.06	120.49	1287.50	1.09
*	20.676	56.65	28.35	.00	.40	1.13	.00	1288.15	1289.71	.06	217.40	1287.50	2.04
*	20.727	29.06	5.94	.00	.09	.25	.00	1289.80	1289.26	.03	358.39	1287.35	1.71
*	20.727	67.07	16.69	1.24	.14	.40	.23	1289.80	1289.76	.05	399.66	1287.35	1.91
*	20.768	20.23	14.77	.00	.14	.43	.00	1289.02	1289.27	.01	354.49	1287.66	[illegible]
*	20.768	55.43	29.57	.00	.18	.55	.00	1289.02	1289.78	.02	384.63	1287.66	2.27

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	20.815	8.18	26.82	.00	.07	.35	.00	1289.51	1289.29	.02	184.96	1287.45	3.11
	20.815	22.53	62.47	.00	.11	.57	.00	1289.51	1289.80	.02	315.12	1287.45	3.46
*	20.870	21.12	13.88	.00	.20	1.03	.00	1287.53	1289.31	.03	141.67	1286.20	5.03
*	20.870	47.00	38.00	.00	.25	1.51	.00	1287.53	1289.84	.04	232.70	1286.20	6.67
	20.912	22.86	12.14	.00	.17	.80	.00	1286.41	1289.45	.14	271.67	1285.58	4.33
*	20.912	57.33	27.67	.00	.19	1.02	.00	1286.41	1289.97	.13	404.28	1285.58	5.35
*	20.963	19.24	110.76	.00	1.68	2.86	.00	1292.38	1290.93	1.47	226.83	1290.50	1.10
*	20.963	96.99	231.69	1.32	2.22	3.39	.91	1292.38	1291.13	1.16	385.12	1290.50	1.13
*	20.974	50.86	79.14	.00	.09	.25	.00	1292.10	1291.08	.15	616.68	1288.60	1.81
*	20.974	138.56	191.44	.00	.21	.54	.00	1292.10	1291.33	.20	675.65	1288.60	1.79
*	21.020	12.59	117.41	.00	.06	.15	.00	1288.23	1291.08	.00	617.16	1287.85	1.18
*	21.020	39.17	290.83	.00	.14	.33	.00	1288.23	1291.34	.01	656.62	1287.85	1.20
*	21.088	8.38	121.62	.00	.04	.10	.00	1288.30	1291.08	.00	529.95	1284.06	1.16
*	21.088	28.36	301.64	.00	.09	.23	.00	1288.30	1291.34	.00	639.04	1284.06	1.21
*	21.137	93.08	36.92	.00	.30	.29	.00	1288.41	1291.08	.00	374.02	1288.41	1.00
*	21.137	235.06	94.65	.29	.61	.60	.16	1288.41	1291.34	.00	437.89	1288.41	1.00
*	21.196	85.29	44.71	.00	.67	.69	.00	1289.82	1291.09	.01	195.56	1288.94	1.00
*	21.196	220.90	109.01	.09	1.30	1.30	.18	1289.82	1291.38	.04	230.20	1288.94	1.00
	21.256	.00	130.00	.00	.00	.79	.00	1287.63	1291.14	.05	110.45	1287.63	1.00
	21.256	.18	329.82	.00	.21	1.56	.00	1287.63	1291.53	.15	135.59	1287.63	1.01
*	21.315	23.08	106.92	.00	.82	1.53	.00	1291.28	1291.23	.09	212.72	1289.59	1.16
.	21.315	150.69	179.31	.00	.94	1.55	.00	1291.28	1291.74	.20	439.32	1289.59	1.19
*	21.375	17.06	112.94	.00	.17	.26	.00	1291.25	1291.29	.06	471.15	1289.06	1.05
*	21.375	70.37	259.63	.00	.33	.45	.00	1291.25	1291.80	.07	551.68	1289.06	1.05
	21.432	33.57	96.37	.05	.22	.26	.07	1288.55	1291.30	.01	448.48	1288.55	1.02
	21.432	105.16	222.86	1.98	.39	.45	.26	1288.55	1291.81	.01	516.86	1288.55	1.02
*	21.463	130.00	.00	.00	.51	.00	.00	1292.60	1291.31	.01	341.52	1289.69	1.00
*	21.463	329.09	.91	.00	.73	.13	.00	1292.60	1291.82	.01	487.89	1289.69	1.02
*	21.492	.00	1.00	.00	.00	.21	.00	1293.49	1291.34	.04	81.41	1291.23	1.00
*	21.492	.34	.66	.01	.01	.01	.00	1293.49	1291.87	.04	397.47	1291.23	1.05
*	21.603	.74	.23	.02	.00	.00	.00	1288.59	1291.35	.00	441.05	1288.28	1.40
*	21.603	.76	.21	.03	.00	.00	.00	1288.59	1291.87	.00	497.26	1288.28	1.36
*	21.665	.39	.61	.00	.00	.01	.00	1289.79	1291.35	.00	353.59	1289.10	1.85
*	21.665	.50	.50	.00	.00	.00	.00	1289.79	1291.87	.00	499.35	1289.10	1.88

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	21.716	.08	.92	.01	.00	.01	.00	1291.25	1291.35	.00	220.24	1288.80	1.46
*	21.716	.23	.74	.04	.00	.01	.00	1291.25	1291.87	.00	314.37	1288.80	2.09
	21.774	1.00	.00	.00	.00	.00	.00	1289.65	1291.35	.00	299.71	1288.77	1.00
	21.774	1.00	.00	.00	.00	.00	.00	1289.65	1291.87	.00	356.74	1288.77	1.00
	21.819	.79	.21	.00	.00	.01	.00	1290.85	1291.35	.00	405.57	1287.47	2.03
	21.819	.83	.17	.00	.00	.00	.00	1290.85	1291.87	.00	431.22	1287.47	1.70
*	21.859	.27	.73	.00	.00	.01	.00	1289.33	1291.35	.00	247.42	1288.61	2.44
*	21.859	.52	.48	.00	.00	.01	.00	1289.33	1291.87	.00	468.71	1288.61	2.03
	21.914	.18	.82	.00	.00	.02	.00	1289.20	1291.35	.00	85.57	1287.69	2.85
*	21.914	.26	.74	.00	.00	.01	.00	1289.20	1291.87	.00	364.49	1287.69	4.86
*	21.963	.29	.70	.01	.00	.01	.00	1289.34	1291.35	.00	315.58	1288.07	3.92
*	21.963	.34	.63	.03	.00	.00	.00	1289.34	1291.87	.00	549.31	1288.07	4.46
	22.014	.23	.77	.00	.00	.01	.00	1288.84	1291.35	.00	331.42	1288.52	3.26
	22.014	.31	.69	.00	.00	.00	.00	1288.84	1291.87	.00	432.16	1288.52	3.89
	22.063	.19	.81	.00	.00	.01	.00	1286.29	1291.35	.00	285.58	1286.29	[illegible]
	22.063	.25	.75	.00	.00	.00	.00	1286.29	1291.87	.00	373.95	1286.29	[illegible]
	22.112	.26	.74	.00	.00	.01	.00	1287.77	1291.35	.00	297.70	1287.77	2.84
	22.112	.38	.62	.00	.00	.01	.00	1287.77	1291.87	.00	332.99	1287.77	2.86
*	22.208	.00	98.29	1.71	.00	2.30	1.16	1293.80	1292.92	1.57	280.83	1292.68	1.02
*	22.208	13.32	247.00	14.67	1.16	2.84	1.72	1293.80	1293.08	1.22	478.50	1292.68	1.13
*	22.236	12.97	87.03	.00	.06	.23	.00	1293.32	1293.03	.11	503.83	1289.85	1.66
*	22.236	42.80	232.20	.00	.14	.56	.00	1293.32	1293.26	.18	553.72	1289.85	1.79
*	22.283	40.73	59.27	.00	.54	3.89	.00	1290.90	1293.66	.63	394.46	1290.46	7.50
*	22.283	167.57	107.43	.00	.99	5.19	.00	1290.90	1293.88	.61	530.72	1290.46	5.34
*	22.304	41.53	58.47	.00	.73	1.12	.00	1290.12	1293.94	.29	174.86	1289.57	1.14
*	22.304	150.04	124.96	.00	.92	1.93	.00	1290.12	1294.33	.46	440.38	1289.57	1.47
*	22.350	59.93	40.07	.00	.10	.43	.00	1290.80	1293.98	.04	545.67	1289.73	4.08
*	22.350	181.52	92.29	1.19	.21	.84	.29	1290.80	1294.43	.10	581.41	1289.73	3.25
	22.401	78.43	21.57	.00	.14	.44	.00	1290.70	1293.99	.01	339.91	1289.70	2.13
	22.401	216.10	58.90	.00	.30	.96	.01	1290.70	1294.46	.03	392.93	1289.70	2.14
	22.444	83.34	16.66	.00	.10	.33	.00	1290.98	1294.00	.01	496.86	1289.77	1.92
	22.444	225.89	47.12	1.99	.22	.72	.36	1290.98	1294.49	.03	511.17	1289.77	2.07
	22.488	76.00	24.00	.00	.11	.40	.00	1293.58	1294.01	.01	513.40	1291.45	[illegible]
	22.488	208.75	64.42	1.83	.21	.86	.41	1293.58	1294.52	.02	599.90	1291.45	3.10

	SECNO	QLOB	QCH	QROB	VLOB	VCH	VROB	TELMX	CWSEL	DIFWSX	TOPWID	ELMIN	ALPHA
*	22.541	201.42	13.58	.00	.24	.29	.00	1290.80	1294.02	.01	537.31	1290.49	1.01
*	22.541	285.24	19.76	.00	.25	.30	.00	1290.80	1294.53	.02	677.13	1290.49	1.01
*	22.571	.80	214.20	.00	.01	.06	.00	1290.50	1294.02	.00	614.86	1283.50	1.04
*	22.571	2.56	302.44	.00	.01	.08	.00	1290.50	1294.53	.00	790.65	1283.50	1.09
	22.609	.54	214.46	.00	.01	.06	.00	1293.36	1294.02	.00	666.28	1283.50	1.02
	22.609	3.10	301.90	.00	.02	.08	.00	1293.36	1294.53	.00	771.37	1283.50	1.08
*	22.636	155.35	59.65	.00	.24	1.81	.00	1292.40	1294.01	-.01	505.33	1291.28	9.23
*	22.636	224.17	80.83	.00	.24	1.80	.00	1292.40	1294.53	-.01	708.53	1291.28	9.35
*	22.695	191.32	23.68	.00	.22	.73	.00	1294.16	1294.10	.09	509.51	1291.20	1.78
*	22.695	268.86	36.14	.00	.24	.86	.00	1294.16	1294.60	.08	585.52	1291.20	2.02
	22.744	185.37	29.63	.00	.17	.62	.00	1292.48	1294.12	.03	674.09	1290.72	2.16
	22.744	258.53	46.47	.00	.18	.71	.00	1292.48	1294.63	.02	695.09	1290.72	2.47
	22.798	125.47	89.48	.05	.15	.88	.21	1294.15	1294.15	.02	675.52	1290.53	6.54
	22.798	196.22	108.16	.61	.16	.90	.26	1294.15	1294.65	.02	822.16	1290.53	5.72
*	22.849	119.43	95.57	.00	.20	1.79	.01	1293.07	1294.18	.04	707.28	1291.07	13.43
*	22.849	208.51	95.74	.75	.22	1.46	.37	1293.07	1294.68	.03	824.11	1291.07	8.04
*	22.932	212.21	2.79	.00	.22	.20	.00	1291.88	1294.24	.06	752.26	1289.99	1.00
*	22.932	296.45	8.55	.00	.23	.25	.00	1291.88	1294.71	.03	806.41	1289.99	1.00
*	22.976	157.23	57.77	.00	.16	.23	.00	1290.42	1294.24	.00	554.91	1290.12	1.09
*	22.976	227.76	76.96	.29	.19	.27	.06	1290.42	1294.71	.00	573.03	1290.12	1.09

EASTERN CANAL-PROF. 1

SUMMARY PRINTOUT

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
	16.422	.00	.00	1279.87	.03	.00	.00	6.03	.00	2.27	30.00	40.00	.00
	16.422	.00	.00	1279.97	.03	.00	.00	6.04	.00	2.37	30.00	40.00	.00
	16.458	190.00	-10.37	1280.04	.07	.15	.02	9.48	.55	4.37	30.00	40.00	.00
	16.458	190.00	-10.37	1280.14	.07	.15	.02	9.82	.61	4.47	30.00	40.00	.00
	16.493	190.00	2.11	1281.79	.08	1.75	.00	8.75	.96	5.71	.00	40.00	.00
*	16.493	190.00	2.11	1282.40	.00	2.26	.00	.19	2.59	6.40	35.48	40.00	.00
*	16.549	290.00	11.03	1281.90	.00	.09	.02	1.61	2.77	2.70	59.00	40.00	25.00
*	16.549	290.00	11.03	1282.41	.00	.01	.00	.61	7.90	3.21	59.00	40.00	25.00
*	16.606	300.00	-.77	1282.11	.13	.14	.06	53.45	4.73	3.01	59.00	40.00	.00
*	16.606	300.00	-.77	1282.47	.02	.05	.01	10.36	11.38	3.47	59.00	40.00	.00
*	16.662	295.00	.34	1282.49	.01	.34	.04	4.91	6.25	3.41	58.02	40.00	.00
*	16.662	295.00	.34	1282.64	.01	.17	.00	3.55	13.65	3.56	57.01	40.00	.00
*	16.723	260.00	-1.27	1282.61	.01	.12	.00	3.45	7.69	3.86	30.00	40.00	.00
*	16.723	260.00	-1.27	1282.74	.01	.10	.00	3.43	15.42	3.99	30.00	40.00	.00
	16.772	260.00	.38	1282.68	.01	.07	.00	1.91	8.21	3.83	.00	39.31	.00
	16.772	260.00	.38	1282.81	.01	.07	.00	2.36	16.03	3.96	.00	39.31	.00
*	16.852	425.00	.61	1282.69	.00	.01	.00	.04	11.43	3.59	35.00	40.00	.00
*	16.852	425.00	.61	1282.82	.00	.01	.00	.05	19.60	3.72	35.00	40.00	.00
*	16.921	370.00	-.76	1282.71	.03	.01	.01	5.02	14.15	3.86	.00	40.00	.00
*	16.921	370.00	-.76	1282.85	.04	.01	.02	6.79	22.63	3.99	.00	40.00	.00
*	16.939	95.00	-5.26	1283.35	.00	.64	.00	.11	14.57	5.03	35.00	40.00	.00
*	16.939	95.00	-5.26	1283.86	.00	1.01	.00	.05	23.33	5.54	35.00	40.00	.00
*	17.014	400.00	.85	1283.36	.00	.01	.00	.58	16.73	4.69	35.00	35.00	.00
*	17.014	400.00	.85	1283.86	.00	.00	.00	.20	27.09	5.20	35.00	35.00	.00
	17.160	775.00	-.15	1284.26	.00	.91	.00	.26	19.36	5.72	.00	35.00	.00
*	17.160	775.00	-2.35	1284.98	.00	1.12	.00	.00	51.57	8.14	30.00	35.00	.00
*	17.183	120.00	-87.00	1284.26	.00	.00	.00	.00	31.08	16.16	30.00	35.00	.00
*	17.183	120.00	-72.83	1284.98	.00	.00	.00	.00	66.94	16.88	30.00	35.00	25.00
*	17.256	390.00	4.72	1284.26	.00	.00	.00	.00	108.35	14.32	30.00	35.00	.00
*	17.256	390.00	4.72	1284.98	.00	.00	.00	.00	149.21	15.04	30.00	35.00	
*	17.277	110.00	75.00	1284.27	.00	.00	.00	.03	117.70	6.07	30.00	35.00	.00
*	17.277	110.00	75.00	1284.98	.00	.00	.00	.01	159.58	6.79	30.00	35.00	.00

	SECNO	XLCH	K*CHSL	EB	HV	HL	DLOSS	10*KS	VDL	DEPTH	K*XNL	K*XNCH	K*XNR
*	17.325	255.00	1.65	1284.27	.00	.00	.00	.36	119.19	5.66	55.85	35.00	.00
*	17.325	255.00	1.65	1284.98	.00	.00	.00	.13	162.33	6.37	56.64	35.00	.00
*	17.435	580.00	.78	1284.28	.00	.01	.00	.08	121.83	5.22	32.28	35.00	.00
*	17.435	580.00	.78	1284.99	.00	.00	.00	.03	167.40	5.93	35.22	35.00	.00
	17.485	260.00	.15	1284.28	.00	.00	.00	.17	123.17	5.18	43.25	35.00	.00
*	17.485	260.00	.15	1284.99	.00	.00	.00	.06	169.97	5.89	46.45	35.00	.00
*	17.570	445.00	2.25	1284.30	.01	.01	.00	1.04	124.34	4.19	.00	35.00	.00
*	17.570	445.00	1.51	1285.05	.05	.03	.02	7.24	172.45	5.23	31.66	35.00	.00
*	17.608	200.00	1.05	1285.58	.00	1.28	.00	.01	125.68	5.27	35.00	35.00	.00
*	17.608	200.00	2.70	1285.89	.00	.84	.00	.23	174.32	5.58	35.00	35.00	.00
	17.683	390.00	.00	1285.58	.00	.00	.00	.01	130.38	5.27	35.00	35.00	.00
	17.683	390.00	.00	1285.90	.00	.01	.00	.23	180.44	5.59	35.00	35.00	.00
	17.780	510.00	.00	1285.58	.00	.00	.00	.01	136.51	5.27	40.00	35.00	25.00
	17.780	510.00	.00	1285.91	.00	.01	.00	.23	188.31	5.60	40.00	35.00	25.00
*	17.834	285.00	-.04	1285.58	.00	.00	.00	.05	139.73	5.28	79.00	35.00	.00
*	17.834	285.00	-.04	1285.92	.00	.01	.00	.92	192.46	5.62	79.00	35.00	25.00
	17.872	200.00	.00	1285.58	.00	.00	.00	.04	142.07	5.28	79.00	35.00	.00
	17.872	200.00	.00	1285.94	.00	.02	.00	.66	195.58	5.64	79.00	35.00	.00
	17.934	320.00	.00	1285.58	.00	.00	.00	.02	146.62	5.28	79.00	35.00	.00
	17.934	320.00	.00	1285.96	.00	.02	.00	.36	201.70	5.65	79.00	35.00	.00
*	17.984	260.00	.04	1285.58	.00	.00	.00	.06	149.89	5.27	79.00	35.00	.00
*	17.984	260.00	.04	1285.97	.00	.01	.00	.92	206.18	5.66	79.00	35.00	.00
	18.035	270.00	2.89	1285.58	.00	.00	.00	.09	152.30	4.49	75.26	35.00	.00
	18.035	270.00	2.89	1286.00	.01	.03	.00	1.49	209.60	4.91	85.11	35.00	.00
*	18.074	200.00	3.85	1285.59	.00	.00	.00	.56	153.38	3.73	35.00	35.00	25.00
*	18.074	200.00	3.85	1286.08	.04	.06	.02	6.86	211.20	4.18	35.00	35.00	25.00
*	18.101	140.00	-50.57	1285.59	.00	.00	.00	.00	157.63	10.81	30.00	30.00	.00
*	18.101	140.00	-50.57	1286.09	.00	.00	.01	.00	215.83	11.31	29.91	30.00	.00
	18.150	260.00	4.12	1285.59	.00	.00	.00	.00	171.87	9.74	30.00	21.00	.00
	18.150	260.00	4.12	1286.09	.00	.00	.00	.00	231.57	10.24	29.96	21.00	.00
*	18.197	250.00	.00	1285.59	.00	.00	.00	.00	189.29	9.74	30.00	21.00	.00
*	18.197	250.00	.00	1286.09	.00	.00	.00	.00	250.74	10.24	30.00	21.00	.00
*	18.225	150.00	2.40	1285.59	.01	.00	.00	.16	196.40	9.38	250.00	24.00	.00
*	18.225	150.00	2.40	1286.09	.00	.00	.00	.12	258.53	9.88	250.00	24.00	.00

	SECND	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	18.253	150.00	-.40	1285.60	.01	.01	.00	16.94	197.32	9.44	250.00	240.00	.00
*	18.253	150.00	-.40	1286.10	.01	.01	.00	13.24	259.67	9.94	250.00	240.00	.00
	18.291	200.00	1.00	1285.94	.01	.34	.00	16.63	198.54	9.58	250.00	250.00	.00
	18.291	200.00	1.00	1286.36	.00	.27	.00	13.49	261.09	10.01	250.00	250.00	.00
*	18.337	245.00	-.20	1285.95	.01	.02	.00	.19	200.02	9.64	.00	24.00	.00
*	18.337	245.00	-.20	1286.38	.01	.01	.00	.16	262.77	10.07	250.00	24.00	.00
	18.384	250.00	-.28	1285.96	.01	.00	.00	.18	201.48	9.72	.00	24.00	.00
	18.384	250.00	-.28	1286.38	.01	.00	.00	.15	264.42	10.15	84.00	24.00	.00
	18.428	230.00	2.61	1285.96	.01	.00	.00	.19	202.86	9.12	31.83	24.00	.00
	18.428	230.00	2.61	1286.38	.01	.00	.00	.15	266.05	9.55	35.96	24.00	.00
	18.487	310.00	-.35	1285.97	.01	.01	.00	.17	204.76	9.24	.00	24.00	.00
	18.487	310.00	-.35	1286.39	.01	.00	.00	.14	268.27	9.66	.00	24.00	25.00
	18.721	1235.00	2.01	1286.97	.00	1.01	.00	.12	219.44	7.77	190.18	24.00	.00
	18.721	1235.00	2.01	1287.50	.00	1.11	.00	.08	287.78	8.30	186.94	24.00	.00
*	18.766	235.00	19.15	1286.98	.00	.00	.00	.01	222.94	3.28	190.00	24.00	.00
*	18.766	235.00	19.15	1287.50	.00	.00	.00	.00	292.88	3.80	190.00	24.00	[illegible]
	18.821	285.00	-1.54	1286.98	.00	.00	.00	.01	226.22	3.72	190.00	24.00	.00
	18.821	285.00	-1.54	1287.50	.00	.00	.00	.01	298.01	4.24	190.00	24.00	25.00
	18.861	215.00	.19	1286.98	.00	.00	.00	.01	228.18	3.68	49.06	24.00	25.00
	18.861	215.00	.19	1287.50	.00	.00	.00	.00	301.20	4.20	59.70	24.00	25.00
*	18.908	245.00	1.55	1286.98	.00	.00	.00	.03	229.97	3.30	91.03	24.00	.00
	18.908	245.00	1.55	1287.50	.00	.00	.00	.01	304.09	3.82	99.59	24.00	.00
	18.965	300.00	-11.60	1286.98	.00	.00	.00	.02	231.81	6.78	32.99	24.00	.00
	18.965	300.00	-11.60	1287.50	.00	.00	.00	.01	307.10	7.30	42.17	24.00	.00
	18.999	180.00	1.11	1286.98	.00	.00	.00	.02	232.95	6.58	41.42	24.00	.00
	18.999	180.00	1.11	1287.50	.00	.00	.00	.01	309.00	7.10	51.70	24.00	.00
*	19.088	230.00	3.78	1286.98	.00	.00	.00	.04	234.34	5.71	57.51	24.00	.00
*	19.088	230.00	3.78	1287.50	.00	.00	.00	.02	311.33	6.23	64.24	24.00	.00
*	19.151	330.00	1.00	1286.98	.00	.00	.00	.02	236.44	5.38	31.83	24.00	.00
*	19.151	330.00	1.00	1287.50	.00	.00	.00	.00	314.88	5.90	31.47	24.00	.00
	19.186	290.00	2.31	1286.98	.00	.00	.00	.02	238.00	4.71	140.00	15.00	.00
*	19.186	290.00	2.31	1287.50	.00	.00	.00	.01	317.52	5.23	139.84	15.00	.00
*	19.262	395.00	1.06	1287.98	.00	.99	.00	.04	239.95	5.29	40.00	35.00	[illegible]
	19.262	395.00	1.06	1288.50	.00	.99	.00	.01	321.28	5.81	40.00	35.00	.00

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNF
	19.294	170.00	2.82	1288.01	.02	.02	.01	2.78	240.99	4.81	150.00	35.00	.00
	19.294	170.00	2.82	1288.53	.04	.01	.02	3.70	323.28	5.32	150.00	35.00	.00
	19.339	240.00	-8.63	1288.06	.02	.05	.00	1.67	242.62	6.94	140.00	35.00	.00
	19.339	240.00	-8.63	1288.60	.03	.07	.00	2.31	326.07	7.48	140.00	35.00	.00
	19.381	220.00	7.91	1288.10	.02	.04	.00	1.93	244.20	5.24	150.00	35.00	.00
	19.381	220.00	7.91	1288.66	.03	.06	.00	2.91	328.57	5.79	150.00	35.00	.00
	19.430	260.00	-.65	1288.16	.03	.06	.00	3.07	245.82	5.47	150.00	35.00	.00
	19.430	260.00	-.65	1288.75	.04	.09	.00	4.05	331.19	6.05	150.00	35.00	25.00
	19.473	225.00	-.76	1288.24	.03	.07	.00	3.16	247.09	5.71	150.00	35.00	.00
	19.473	225.00	-.76	1288.85	.05	.09	.00	3.97	333.54	6.30	150.00	35.00	.00
	19.502	135.00	35.33	1288.30	.01	.06	.01	2.92	248.46	1.02	20.00	20.00	20.00
*	19.502	135.00	35.33	1288.89	.01	.03	.01	.66	337.08	1.61	20.00	20.00	20.00
	19.623	635.00	-5.31	1288.42	.01	.12	.00	1.57	253.24	4.52	105.99	35.00	250.00
*	19.623	635.00	-5.31	1288.94	.01	.05	.00	1.43	345.72	5.03	72.59	35.00	250.00
	19.670	250.00	8.16	1288.45	.00	.03	.00	.88	255.98	2.51	40.00	30.00	.00
	19.670	250.00	8.16	1288.97	.01	.03	.00	.95	349.68	3.03	40.00	30.00	.00
*	19.716	245.00	-1.22	1288.53	.05	.05	.02	12.32	257.74	2.84	.00	30.00	25.00
*	19.716	245.00	-1.22	1289.05	.05	.05	.02	9.26	352.17	3.35	.00	30.00	25.00
*	19.764	260.00	2.65	1288.73	.03	.19	.01	5.10	259.04	2.37	121.07	30.00	25.00
*	19.764	260.00	2.65	1289.22	.03	.16	.01	4.72	354.08	2.86	105.70	30.00	25.00
*	19.808	230.00	10.30	1288.85	.00	.11	.01	.85	259.80	.15	20.00	20.00	.00
*	19.808	230.00	10.30	1289.29	.00	.06	.01	.00	355.53	.59	20.00	20.00	20.00
*	19.830	115.00	-15.83	1288.85	.00	.00	.00	.00	259.89	1.97	205.54	30.00	.00
*	19.830	115.00	-15.83	1289.29	.00	.00	.00	.00	355.93	2.41	52.19	30.00	.00
*	19.871	215.00	-6.56	1288.85	.00	.00	.00	.00	261.04	3.38	30.06	35.00	.00
*	19.871	215.00	-6.56	1289.29	.00	.00	.00	.00	357.54	3.82	30.42	35.00	.00
*	19.924	280.00	-2.25	1288.85	.00	.00	.00	.00	262.73	4.01	250.00	35.00	25.00
*	19.924	280.00	-2.25	1289.29	.00	.00	.00	.00	359.73	4.45	103.66	35.00	25.00
	19.971	245.00	2.29	1288.85	.00	.00	.00	.00	263.51	3.45	26.50	30.00	25.00
*	19.971	245.00	2.29	1289.29	.00	.00	.00	.00	361.06	3.89	28.86	30.00	25.00
	20.015	230.00	.43	1288.85	.00	.00	.00	.00	264.28	3.35	26.61	30.00	.00
*	20.015	230.00	.43	1289.29	.00	.00	.00	.00	362.41	3.79	27.97	30.00	.00
*	20.051	185.00	-7.68	1288.85	.00	.00	.00	.00	266.59	4.77	30.00	30.00	25.00
*	20.051	185.00	-7.68	1289.29	.00	.00	.00	.00	365.28	5.21	30.00	30.00	25.00

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	20.082	165.00	6.85	1288.85	.00	.00	.00	.00	269.86	3.64	30.65	30.00	25.00
*	20.082	165.00	6.85	1289.29	.00	.00	.00	.00	369.40	4.08	31.91	30.00	25.00
*	20.139	300.00	-.73	1288.85	.00	.00	.00	.00	273.07	3.86	90.17	35.00	25.00
*	20.139	300.00	-.73	1289.29	.00	.00	.00	.00	374.04	4.30	84.27	35.00	25.00
	20.179	210.00	.05	1288.85	.00	.00	.00	.00	274.91	3.85	109.32	30.00	.00
	20.179	210.00	.05	1289.29	.00	.00	.00	.00	376.95	4.29	92.38	30.00	25.00
*	20.244	345.00	1.10	1288.85	.00	.00	.00	.00	276.79	3.47	33.78	35.00	.00
*	20.244	345.00	1.10	1289.29	.00	.00	.00	.00	380.20	3.91	38.65	35.00	.00
*	20.289	240.00	-.83	1288.85	.00	.00	.00	.00	277.65	3.67	158.50	30.00	.00
	20.289	240.00	-.83	1289.29	.00	.00	.00	.00	381.93	4.11	137.63	30.00	.00
*	20.324	185.00	2.70	1288.85	.00	.00	.00	.00	278.46	3.17	165.17	30.00	.00
*	20.324	185.00	2.70	1289.29	.00	.00	.00	.00	383.54	3.61	110.34	30.00	.00
*	20.379	290.00	8.62	1288.85	.00	.00	.00	.00	279.20	.67	20.00	20.00	20.00
*	20.379	290.00	8.62	1289.29	.00	.00	.00	.00	385.13	1.11	20.00	20.00	20.00
*	20.393	70.00	-63.72	1288.85	.00	.00	.00	.01	279.91	5.13	30.00	30.00	.00
*	20.393	70.00	-63.72	1289.29	.00	.00	.00	.02	386.11	5.57	30.00	30.00	[illegible]
*	20.432	205.00	-2.00	1288.85	.00	.00	.00	.00	282.61	5.54	29.93	30.00	.00
*	20.432	205.00	-2.00	1289.29	.00	.00	.00	.01	389.36	5.98	30.03	30.00	.00
*	20.465	175.00	24.46	1288.85	.01	.00	.00	32.12	284.56	1.26	90.15	30.00	.00
*	20.465	175.00	24.46	1289.29	.00	.00	.00	6.95	391.92	1.70	60.91	30.00	.00
*	20.515	265.00	-1.66	1289.00	.00	.15	.00	2.22	285.34	1.85	150.00	30.00	.00
	20.515	265.00	-1.66	1289.43	.00	.14	.00	4.08	393.31	2.28	150.00	30.00	.00
	20.559	230.00	2.26	1289.07	.00	.06	.00	3.66	286.28	1.39	150.00	30.00	.00
	20.559	230.00	2.26	1289.53	.01	.10	.00	4.59	394.79	1.86	145.91	30.00	.00
*	20.608	260.00	1.19	1289.12	.00	.06	.00	1.38	287.25	1.14	150.00	30.00	25.00
*	20.608	260.00	1.19	1289.60	.01	.07	.00	1.69	396.51	1.61	150.00	30.00	25.00
	20.651	225.00	-1.60	1289.17	.00	.04	.00	2.68	288.16	1.55	150.00	30.00	.00
	20.651	225.00	-1.60	1289.65	.00	.05	.00	3.23	398.04	2.03	145.99	30.00	.00
*	20.676	130.00	-.92	1289.23	.00	.06	.00	8.71	288.58	1.72	150.00	30.00	.00
*	20.676	130.00	-.92	1289.72	.01	.07	.00	8.97	398.74	2.21	150.00	30.00	.00
*	20.727	270.00	-.56	1289.26	.00	.03	.00	.43	289.96	1.91	130.45	30.00	25.00
*	20.727	270.00	-.56	1289.76	.00	.04	.00	.53	400.93	2.41	112.84	30.00	25.00
*	20.768	215.00	1.44	1289.27	.00	.01	.00	1.26	291.25	1.61	87.76	35.00	[illegible]
*	20.768	215.00	1.44	1289.78	.00	.02	.00	1.12	403.16	2.12	88.06	35.00	.00

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	20.815	250.00	-.84	1289.29	.00	.02	.00	.37	292.33	1.84	150.00	30.00	.00
	20.815	250.00	-.84	1289.80	.00	.02	.00	.65	405.11	2.35	139.55	30.00	.00
*	20.870	285.00	-4.39	1289.32	.01	.03	.00	8.62	293.37	3.11	200.00	30.00	.00
*	20.870	285.00	-4.39	1289.85	.02	.05	.01	8.28	406.86	3.64	200.00	30.00	.00
	20.912	220.00	-2.82	1289.45	.00	.13	.00	4.42	294.05	3.87	150.00	30.00	.00
*	20.912	220.00	-2.82	1289.97	.01	.12	.00	3.60	408.25	4.39	150.00	30.00	.00
*	20.963	270.00	18.22	1291.04	.11	.59	.06	79.79	294.42	.43	20.00	20.00	.00
*	20.963	270.00	18.22	1291.28	.15	.44	.07	58.37	409.02	.63	20.00	20.00	20.00
*	20.974	60.00	-31.67	1291.08	.00	.00	.03	.09	295.94	2.48	60.00	30.00	.00
*	20.974	60.00	-31.67	1291.33	.00	.01	.04	.38	410.95	2.73	60.00	30.00	.00
*	21.020	245.00	-3.06	1291.08	.00	.00	.00	.03	301.33	3.23	38.42	30.00	.00
*	21.020	245.00	-3.06	1291.34	.00	.01	.00	.13	417.31	3.49	39.76	30.00	.00
*	21.088	360.00	-10.53	1291.08	.00	.00	.00	.00	311.42	7.02	30.00	30.00	.00
*	21.088	360.00	-10.53	1291.34	.00	.00	.00	.02	428.74	7.28	30.00	30.00	.00
*	21.137	260.00	16.73	1291.08	.00	.00	.00	.27	317.05	2.67	30.00	30.00	.00
*	21.137	260.00	16.73	1291.34	.01	.00	.00	.90	435.16	2.93	30.00	30.00	25.00
*	21.196	310.00	1.71	1291.10	.01	.02	.00	1.72	319.28	2.15	30.00	30.00	.00
*	21.196	310.00	1.71	1291.41	.03	.05	.01	5.01	438.00	2.44	30.00	30.00	25.00
	21.256	315.00	-4.16	1291.15	.01	.05	.00	1.50	320.57	3.51	.00	30.00	.00
	21.256	315.00	-4.16	1291.57	.04	.16	.01	4.86	439.69	3.90	30.00	30.00	.00
*	21.315	310.00	6.32	1291.26	.03	.10	.01	12.48	321.51	1.64	30.00	30.00	.00
	21.315	310.00	6.32	1291.76	.03	.19	.00	7.66	441.43	2.15	30.00	30.00	.00
*	21.375	315.00	-1.68	1291.29	.00	.02	.01	.21	323.81	2.23	30.00	35.00	.00
*	21.375	315.00	-1.68	1291.80	.00	.04	.01	.43	445.32	2.74	30.00	35.00	.00
	21.432	300.00	-1.70	1291.30	.00	.01	.00	.21	327.51	2.75	30.00	35.00	25.00
	21.432	300.00	-1.70	1291.82	.00	.01	.00	.44	450.83	3.26	30.00	35.00	25.00
*	21.463	165.00	6.91	1291.31	.00	.01	.00	1.26	328.99	1.62	31.00	.00	.00
*	21.463	165.00	6.91	1291.83	.01	.01	.00	1.63	453.16	2.13	31.00	35.00	.00
*	21.492	150.00	10.27	1291.35	.00	.03	.00	3.70	330.17	.11	.00	20.00	.00
*	21.492	150.00	10.27	1291.87	.00	.03	.00	.00	455.67	.64	20.00	20.00	20.00
*	21.603	590.00	-5.00	1291.35	.00	.00	.00	.00	333.81	3.07	60.00	35.00	25.00
*	21.603	590.00	-5.00	1291.87	.00	.00	.00	.00	461.46	3.59	59.99	35.00	25.00
*	21.665	325.00	2.52	1291.35	.00	.00	.00	.00	337.45	2.25	60.00	35.00	.00
*	21.665	325.00	2.52	1291.87	.00	.00	.00	.00	466.81	2.77	60.00	35.00	.00

	SECND	XLCH	K*CHSL	EG	HV	HL	DLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	21.716	270.00	-1.11	1291.35	.00	.00	.00	.00	338.81	2.55	60.00	35.00	25.00
*	21.716	270.00	-1.11	1291.87	.00	.00	.00	.00	469.32	3.07	60.00	35.00	25.00
	21.774	305.00	-.10	1291.35	.00	.00	.00	.00	340.39	2.58	60.00	.00	.00
	21.774	305.00	-.10	1291.87	.00	.00	.00	.00	472.00	3.10	60.00	.00	.00
	21.819	240.00	-5.42	1291.35	.00	.00	.00	.00	342.54	3.88	102.65	35.00	.00
	21.819	240.00	-5.42	1291.87	.00	.00	.00	.00	475.21	4.40	89.99	35.00	.00
*	21.859	205.00	5.56	1291.35	.00	.00	.00	.00	343.99	2.74	59.54	35.00	.00
*	21.859	205.00	5.56	1291.87	.00	.00	.00	.00	477.57	3.26	49.54	35.00	.00
	21.914	290.00	-3.17	1291.35	.00	.00	.00	.00	344.87	3.66	150.00	35.00	.00
*	21.914	290.00	-3.17	1291.87	.00	.00	.00	.00	479.36	4.18	140.24	35.00	.00
*	21.963	260.00	1.46	1291.35	.00	.00	.00	.00	346.32	3.28	140.00	35.00	25.00
*	21.963	260.00	1.46	1291.87	.00	.00	.00	.00	481.71	3.80	140.00	35.00	25.00
	22.014	270.00	1.67	1291.35	.00	.00	.00	.00	348.37	2.83	130.00	35.00	.00
	22.014	270.00	1.67	1291.87	.00	.00	.00	.00	484.99	3.35	130.00	35.00	.00
	22.063	260.00	-8.58	1291.35	.00	.00	.00	.00	350.10	5.06	120.00	35.00	.00
	22.063	260.00	-8.58	1291.87	.00	.00	.00	.00	487.83	5.58	120.00	35.00	[illegible]
	22.112	260.00	5.69	1291.35	.00	.00	.00	.00	351.62	3.58	90.00	35.00	.00
	22.112	260.00	5.69	1291.87	.00	.00	.00	.00	490.30	4.10	90.00	35.00	25.00
*	22.208	510.00	9.63	1293.00	.08	.07	.04	104.97	352.91	.24	.00	20.00	20.00
*	22.208	510.00	9.63	1293.20	.12	.12	.06	66.16	492.57	.40	20.00	20.00	20.00
*	22.236	150.00	-18.87	1293.03	.00	.01	.02	.11	354.40	3.18	82.59	35.00	.00
*	22.236	150.00	-18.87	1293.27	.00	.03	.03	.58	494.54	3.41	82.55	35.00	.00
*	22.283	250.00	2.44	1293.80	.14	.01	.07	155.39	356.36	3.20	130.91	35.00	.00
*	22.283	250.00	2.44	1294.05	.17	.05	.08	200.68	497.12	3.42	116.24	35.00	.00
*	22.304	110.00	-8.09	1293.96	.01	.12	.04	3.60	356.63	4.37	28.71	35.00	.00
*	22.304	110.00	-8.09	1294.37	.03	.28	.04	8.68	497.69	4.76	34.46	35.00	.00
*	22.350	250.00	.64	1293.98	.00	.02	.00	.34	359.09	4.25	124.68	35.00	.00
*	22.350	250.00	.64	1294.43	.00	.06	.01	1.02	501.28	4.70	109.49	35.00	25.00
	22.401	270.00	-.11	1293.99	.00	.01	.00	.47	362.84	4.29	111.12	35.00	.00
	22.401	270.00	-.11	1294.47	.00	.03	.00	1.69	506.21	4.76	111.31	35.00	25.00
	22.444	225.00	.31	1294.00	.00	.01	.00	.27	366.60	4.23	111.43	35.00	25.00
	22.444	225.00	.31	1294.49	.00	.03	.00	.98	511.04	4.72	115.87	35.00	25.00
	22.488	230.00	7.30	1294.01	.00	.01	.00	.36	370.88	2.56	120.50	35.00	25.[illegible]
	22.488	230.00	7.30	1294.52	.00	.02	.00	1.21	516.71	3.07	126.88	35.00	25.[illegible]

	SECNO	XLCH	K*CHSL	EG	HV	HL	OLOSS	10*KS	VOL	DEPTH	K*XNL	K*XNCH	K*XNR
*	22.541	280.00	-3.43	1294.02	.00	.01	.00	.29	376.48	3.53	57.68	35.00	.00
*	22.541	280.00	-3.43	1294.53	.00	.01	.00	.23	524.37	4.04	53.10	35.00	.00
*	22.571	160.00	-43.69	1294.02	.00	.00	.00	.00	384.44	10.52	38.77	30.00	.00
*	22.571	160.00	-43.69	1294.53	.00	.00	.00	.00	533.62	11.03	48.90	30.00	.00
	22.609	200.00	.00	1294.02	.00	.00	.00	.00	400.26	10.52	26.10	30.00	.00
	22.609	200.00	.00	1294.53	.00	.00	.00	.00	551.16	11.03	31.42	30.00	.00
*	22.636	140.00	55.57	1294.03	.01	.00	.01	8.28	406.91	2.73	248.49	30.00	.00
*	22.636	140.00	55.57	1294.54	.01	.00	.01	5.72	558.91	3.25	233.15	30.00	.00
*	22.695	310.00	-.26	1294.10	.00	.07	.00	1.10	412.03	2.90	106.63	30.00	.00
*	22.695	310.00	-.26	1294.61	.00	.06	.00	1.11	565.98	3.40	114.98	30.00	.00
	22.744	260.00	-1.85	1294.12	.00	.02	.00	1.00	417.50	3.40	140.67	30.00	.00
	22.744	260.00	-1.85	1294.63	.00	.02	.00	.93	573.15	3.91	142.64	30.00	.00
	22.798	285.00	-.67	1294.15	.01	.03	.00	.83	424.09	3.62	141.11	30.00	25.00
	22.798	285.00	-.67	1294.65	.00	.02	.00	.69	582.02	4.12	127.17	30.00	25.00
*	22.849	270.00	2.00	1294.21	.02	.04	.01	4.90	429.07	3.11	222.21	30.00	.00
*	22.849	270.00	2.00	1294.69	.01	.03	.00	2.46	589.34	3.61	155.48	30.00	25.00
*	22.932	220.00	-4.91	1294.24	.00	.03	.01	.55	433.50	4.25	67.54	30.00	.00
*	22.932	220.00	-4.91	1294.71	.00	.02	.00	.40	595.81	4.72	64.51	30.00	.00
*	22.976	230.00	.57	1294.24	.00	.00	.00	.04	439.30	4.12	33.59	30.00	.00
*	22.976	230.00	.57	1294.71	.00	.00	.00	.05	603.27	4.59	34.43	30.00	25.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=    16.493  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.549  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.549  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.606  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.606  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.723  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.723  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.852  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.852  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.921  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.921  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    16.939  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    16.939  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.014  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.014  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.160  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.183  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.183  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.256  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.256  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.277  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.277  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.325  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.325  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.435  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.435  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.485  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.570  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.570  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    17.608  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.608  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.834  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.834  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.074  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.074  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.101  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.101  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.197  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.197  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.225  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.225  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.253  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.253  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.337  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.337  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.766  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.766  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.908  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.088  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.088  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.151  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.151  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.186  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.262  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.502  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.623  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.716  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.716  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.764  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    19.764  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.808  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.808  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.830  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.830  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.871  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.871  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.924  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.924  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.971  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.015  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.051  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.051  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.082  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.082  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.139  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.139  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.244  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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T.D.N. NO. 8.0
FLOOD INSURANCE STUDY
EASTERN CANAL
CITY OF MESA
MARICOPA COUNTY, ARIZONA

PREPARED FOR:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
2801 WEST DURANGO STREET
PHOENIX ARIZONA 85009
AND
CITY OF MESA
ENGINEERING DEPARTMENT
55 NORTH CENTER STREET
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Registered Professional Engineer (Civil)
CERTIFICATE NO.
15290
GREGORY A.
SCHUELKE
Date Signed 5/20/97
ARIZONA, U.S.A.

MAY 1997

FCDMC NO. 96-10
A-N WEST, INC. JOB NO. 7158-04

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EXHIBITS

EXHIBIT 1 - Flood Profiles (Panels 1-16)	Follows References
EXHIBIT 2 - Elevation Reference Mark Descriptions	Follows Exhibit 1
EXHIBIT 3 - Draft Floodplain Work Maps - 200 Scale (8 Sheets)	Under Separate Cover

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FLOOD INSURANCE STUDY
EASTERN CANAL
CITY OF MESA, MARICOPA COUNTY, ARIZONA

1.0 INTRODUCTION:

1.1 Purpose of Study

This Flood Insurance Study investigates the existence and severity of flood hazards in Maricopa County, Arizona, and aids in the administration of the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. This study has developed flood risk data for various areas of the community that will be used to establish actuarial flood insurance rates and assist the community in their efforts to promote sound flood plain management.

1.2 Authority and Acknowledgments

The hydrologic analysis for this study were performed by Primatech Engineers and the hydraulic analysis was performed by A-N West, Inc. for the Flood Control District of Maricopa County, under contract No. FCD 96-10. This study was completed in June, 1997.

1.3 Coordination

The areas to be studied were provided by the Flood Control District of Maricopa County during contract negotiations in _____.

A public notice was published in the Arizona Republic/Phoenix Gazette on _____ and _____ and the Mesa Tribune on _____ to notify all interested parties of the commencement of this study.

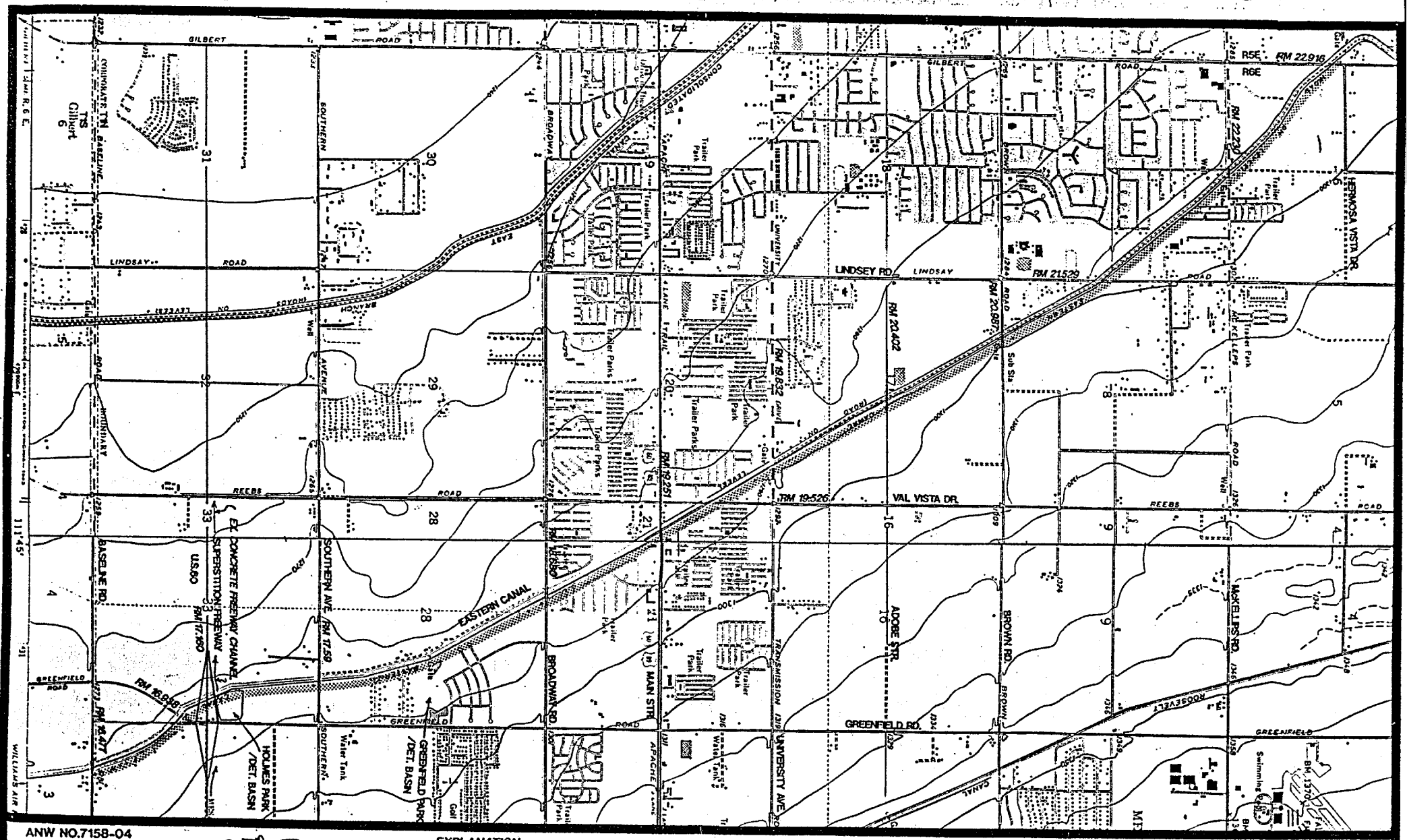
The following agencies and companies were contacted by A-N West for the hydraulic analysis to obtain information on the study; Flood Control District of Maricopa County, Arizona Department of Transportation, Salt River Project (SRP) and City of Mesa.

2.0 AREA STUDIED

2.1 Scope of Study

The limits of detailed study in these areas of the City of Mesa, Maricopa County, Arizona were determined by the Flood Control District of Maricopa County in association with the City of Mesa and were forwarded to the study contractor during contract negotiations in _____. The detailed study areas included along the upstream side of the Eastern Canal from Baseline Road to Hermosa Vista Drive, a distance of approximately 5.5 miles.

The general study area is shown on the Vicinity Map (Figure 1).



ANW NO.7158-04
FCDMC NO.96-10

A-NWEST INC.
Consulting Engineers

0 2000
SCALE 1"=2000'

EXPLANATION

STUDY LIMITS

RM 16.477 RIVER MILE NO.

LOCATION MAP
EASTERN CANAL FIS

FIGURE 1

2.2 Community Description

The study area is currently in the City of Mesa corporate limits of Maricopa County, Arizona. The floodplain study area from Baseline Road north 5.5 river miles to Hermosa Vista Drive along the Eastern Canal consists of concrete lined channel, earthen channel, and earthen swales.

From Baseline Road to Greenfield Road along the canal, the floodplain study area is currently an excavated un-lined channel with residential/horse properties to cultivated crop land east of the Eastern Canal.

From Greenfield Road north along the canal to the U.S. 60 Freeway Interchange is mostly vacant land with Greenfield Road running perpendicular to north at the canal.

North of the U.S. 60 Freeway is the Holmes Park Detention Basin which has a concrete channel along the freeway and culvert of approximately 100 cfs capacity conveying storm water under the Eastern Canal to the west. From Holmes Park Detention Basin north along the canal to Southern Avenue, the channel is earthen and a strip of vacant land containing material stockpiles along with an orchard to the east of the canal.

From Southern Avenue, 750 feet north along the canal the floodplain study area is an earthen channel with cultivated crop land to the east of the canal. From 750 feet north of Southern Avenue to Greenfield Park Detention Basin, an excavated un-lined channel with residential/horse properties to the east of the canal make up the study area. In the Greenfield Park area, the channel is lined with concrete and the park is landscaped with turf grass and trees.

From Greenfield Park north to Broadway Road the study area is a concrete lined channel with single-family residences to the east and concrete masonry unit (cmu) between the channel and the residential development fence running parallel to the east of the canal.

From Broadway Road to 650 feet north, the study area is an un-lined channel with mobile homes, chain link and cmu fence to the east of the canal. From 650 feet north to 2450 feet north of Broadway Road there is a concrete lined channel with mobile homes and paved roads to the east of the canal. From 2450 feet north to Main Street, the study area is a concrete lined channel and a commercial building with a paved parking lot and a cmu fence, and a vacant parcel of land to the east of the canal.

From Main Street north to Val Vista Drive, the study area is an un-lined channel with a 90 feet wide strip of landscaping with mobile homes and chain link fences to the east of the canal.

From Val Vista Drive north to University Drive, the study area is an un-lined channel with commercial buildings and a paved parking lot with intermittent vacant parcels and residential properties to the east of the canal.

From University Drive north 1200 feet, the study area is an un-lined channel with a vacant parcel east of the canal. From 1200 feet north of University Drive to Adobe Street is an un-lined channel with landscaped detention basin and power line easement with turf grass and trees east of the canal, along with single-family residences with paved streets and an orchard east of the canal.

From Adobe Street north to Brown Road, the floodplain study area is an un-lined channel/swale with a detention basin/park and single-family residences, cmu fences and paved streets east of the canal.

From Brown Road north 650 feet, the study area is an un-lined swale with citrus harvest box storage and citrus orchard east of the canal. From 650 feet north to Lindsay Road, the study area is an un-lined swale with vacant land to the east of the canal.

From Lindsay Road north 1400 feet, the floodplain study area is an un-lined swale with commercial buildings/school and landscaping to the east of the canal. From 1400 feet north of Lindsay Road to 2200 feet north is an un-lined swale with a landscaped residential apartment complex and cmu fence east of the canal. From 2200 feet north to McKellips Road, the study area is an un-lined swale with mobile homes, intermittent hedges and a former automobile service station with paved parking east of the canal.

From McKellips Road north to Hermosa Vista Drive, the floodplain study area is a residential apartment complex and cmu fence with paved parking with single-family residences, cmu fences and paved streets with a landscaped park/detention basin east of the canal.

The study area lies at an elevation of approximately 1350 feet.

The climate of the study area is typically desert in character with short, mild winters and long, hot summers. Wide diurnal temperature variations are also characteristic. Temperatures generally range between 35 degrees Fahrenheit (^{o}F) and 105° F, with an annual average of 71° F. The prevailing winds are from the east and are usually light, although severe windstorms occur occasionally during the summary thunderstorm season. The annual precipitation for the study area averages approximately 7.4 inches.

There are two separate rainfall seasons. The first occurs during the winter months from November to March, when the area is subject to storms from the Pacific Ocean. While this is classified as a rainfall season, there can be periods of a month or more, in this or any other season, when

practically no precipitation falls. No significant snowfall occurs over the study area. The second rainfall season occurs during July and August when Arizona is subject to widespread thunderstorm activity. These thunderstorms are extremely variable in intensity and location. The spring and fall months are generally dry, although precipitation in substantial amounts has fallen on occasion during every month of the year.

2.3 Principal Flood Problems

The current Eastern Canal floodplain is approximately 60 percent developed.

Residential houses and commercial buildings have experienced flooding in the past as storm water has ponded upstream of the canal.

2.4 Flood Protection Measures

The East Maricopa Floodway (EMF) which parallels the Eastern Canal 1-1/2 miles to the east intercepts stormwater from the east. The EMF was built by the Soil Conservation Service, now the National Resource Conservation Service, with the FCDMC as the local sponsor. The Flood Control District of Maricopa County (FCDMC) owns and is responsible for inspection and maintenance.

This flood insurance study is intended to be utilized in the planning and regulation of future development within the study area to provide for adequate drainage and flood proofing of development.

3.0 ENGINEERING METHODS

3.1 Hydrologic Analysis

The hydrology for the Eastern Canal was performed for this study by Primatech Engineers and is summarized in a report under separate cover. The peak discharges were computed for the 100-year 24-hour storm event by the HEC-1 computer model (Ref. 5) using the Flood Control District of Maricopa County Hydrology Manual (Ref. 6).

A summary of drainage area - peak discharge relationships for the Eastern Canal at several locations along the study reach from Reference 4 is shown in Table 1.

3.2 Hydraulic Analysis

Cross-sections were digitized from a Digital Terrain Model (DTM) provided with the topographic mapping (Reference 1) that was compiled. The culverts at Baseline, Greenfield, U.S. 60, Southern, Broadway and Main Streets were field surveyed for inlet and outlet inverts and the length and wingwall configuration was obtained from as-built plans and site visits. These field surveyed culverts were modeled in the HEC-2 model analysis.

TABLE 1

Summary of Peak Discharges

Along the Eastern Canal

Station (Note 1)	Location	Drainage area (mi^2)	Q 100 (cfs) (Note 2)
CP3	N. Rose	0.46	273
CP4	N. Almond Cir.	0.67	333
CP17	E. McKellips Rd.	2.45	240
CP18	E. Ivyglen Cir.	2.52	219
CP20	N. Lindsay Rd.	2.57	223
CP21	N. Lindsay Rd.	2.81	323
CP37	E. Brown Rd.	4.48	637
CP38	E. Fox St.	4.55	703
CP39	E. Fairfield	4.65	692
CP43	E. Adobe St.	5.25	791
CP44	E. Dartmouth St.	5.3	781
CP45	E. Covina Cir.	5.49	774
CP53	N. Val Vista Dr.	6.36	767
CP54	Alpha St.	6.49	726
CP56	E. Main St.	7.22	1004
CP57	E. Alder Ave.	7.29	1032
CP58	E. Balsam Ave.	7.34	1032
CP68	E. Capri Ave.	8.16	1293
CP69	E. Carol Cir.	8.23	1326
CP70	E. Catalina Cir.	8.28	1342
CP77	E. Pueblo Ave.	9.09	1487
CP78	E. Emelita Ave.	9.25	1304
CP79	E. Southern Ave.	9.3	1302
CP85	E. Hampton Cir.	10.11	1350
CP91	US 60 - Superstition Frwy.	11.13	1532
CP92	1400' N. of E. Baseline Rd.	11.25	950
CP97	E. Baseline Rd.	12.15	1009

Notes: 1) HEC-1 Model I.D. No. from Primatech Engineers report

2) These 100-year 24-hour storm event discharges based on assumption of no breakout of flow across canal

TABLE 2

EASTERN CANAL FIS
UPDATED ROAD CROSSING AND DRAINAGE STRUCTURE SUMMARY

River Mile	Location	Description	Structure Type/Size
16.477	Baseline Road	Major Street with 1± Foot Dip(2)	2-4' RCP's x 130'/Hdwall and Trsh RK(1)
16.938	Greenfield Rd.	Major Street with 0.3± foot Dip(2)	1-4' RCP x 95'/Hdwall(1)
17.160	U.S. 60 Culvert Under Canal	Culvert along channel under canal	1-45" x 29" x 196' long HECP, mitered inlet (5)
17.160	U.S. 60 Freeway Along Canal	Freeway with overpass, No Dip(2)	1-4' RCP x 730'/Hdwall and ½ TRSH RK(1)
17.59	Southern Avenue	Major Street with 1.2± foot Dip(2)	2-24" RCP's x 160' with Hdwall (Bell End)(1)
18.680	Broadway Road	Major Street with 0.6± foot Dip(2)	1-6' and 1-4.5' RCP x 1100' with Hdwall and vertical TRSH RK (1)
19.251	Main St. (Apache Blvd)	Major Street, No Dip(2)	Inlet-1-30" RCP x 260' with Hdwall (Bell End)(1). Outlet - 1-10' x 4.25' RCB
19.526	Val Vista Dr.	Major Street, with 1.7± foot Dip(2)	1-30" RCP x 1780' with Hdwall and TRSH RK(3)
19.832	University Dr.	Major Street with 0.5± foot Dip(2)	same as pipe at Val Vista Drive(3)
20.402	Adobe Street	Major Street with 3.3± foot Dip(2)	Approx. 2 foot storm sewer size(3)
20.987	Brown Road	Major Street with 2± foot Dip(2)	Approx. 2 foot storm sewer size(3)
21.529	Lindsay Road	Major Street with 2.3± foot Dip(2)	Approx. 2 foot storm sewer size(3)
22.230	McKellips Road	Major Street with 0.9± foot Dip(2)	1-24" RCP with Hdwall(3)
22.916	Gilbert Road	Major Street with 2.5± foot Dip(2)	No Culvert/S.D.

Notes:

1. Anticipate modeling culverts in HEC-2 model by special culvert option with road profile for weir flow over road or by subtracting the estimated culvert capacity from flow at cross-section locations where culverts are located.

2. Dip denotes road profile which dips or is depressed below adjacent top of road at the canal to cause flow over road before flow over canal on road. Note: flow upstream may be overflowing canal before flow over road occurs.

3. Where storm drain is noted, it is assumed the hydrology modeling reflects storm drain capacity.

4. TRSH RK = Trash Rack. Hdwall = Headwall. RCP = Reinforced Concrete Pipe. RCB = Reinforced Concrete Box Culvert.

5. This 45" span x 29' rise Horizontal Elliptical Concrete Pipe (HECP) conveys flow in concrete channel along north side.

Other street crossings along the canal to the north, including Val Vista, University, Adobe, Brown, Lindsay, McKellips and Hermosa Vista Streets are drained of nuisance storm water runoff by a small capacity (15 cfs) 24± inch storm drain along the canal. Table 2 summarizes the road crossing inventory and drainage structure summary.

Water-surface elevations for floods for the 100-year recurrence interval were computed using the COE HEC-2 step-backwater computer program (Reference 2). Starting water surface elevations were determined using the slope-area method, starting 200 feet downstream of the Baseline Road culverts.

Locations of selected cross-sections used in the hydraulic analysis are shown on the Flood Profiles (Exhibit 1) and Flood Insurance Rate Maps (Exhibit 3). The flood profiles show the east and west top of canal bank and stream bed as digitized from the Digital Terrain Model (DTM) from the mapping (Reference 1). The profiles also show the field surveyed east top of canal bank performed as a quality control check. The Profile 1 flood Water Surface Elevation (WSEL) represents trial discharges to determine the capacity of various reaches along the canal at WSEL near east top of canal bank. This Profile 1 did not convey the computed 100-year discharges.

The stream bed varies for several reasons. Retention basins in some cases provide the low outlet for the channel along the canal. Culverts below the stream bed may reflect sedimentation or grass growth in the adjacent channel which is higher than culvert invert.

Channel and overbank roughness factors (Manning's "n") used in the hydraulic computations were chosen using procedures from References 7 and 8 and based on field observations of the stream and floodplain areas. A summary of the Manning's "n" values used in the floodplain modeling of the study wash follows in Table 3:

TABLE 3

Summary of Roughness Coefficients

Stream	Channel	Overbank
Baseline Road to 1000 ft. upstream	0.04	0.03-0.059
1000 ft upstream from Baseline Road to Greenfield Road	0.04	0.035
Greenfield Road to U.S. 60	0.035	0.03
U.S. 60 upstream to Holmes Park	0.035	0.035
Holmes Park to Southern Avenue	0.035	0.030-0.06
Southern Avenue to 750 ft upstream	0.035	0.035
750 ft upstream of Southern Avenue to Greenfield Park	0.035	0.079
Greenfield Park	0.035	0.035

Greenfield Park to Broadway Road	0.003	0.02-0.25
Broadway Road to 650 ft upstream	0.024	0.19
650 ft to 2450 ft upstream of Broadway Road	0.024	0.19
2450 ft upstream of Broadway Road to Main Street	0.015	0.03-0.20
Main Street to Val Vista Drive	0.035	0.15
Val Vista Drive upstream to University Drive	0.035	0.040-0.15
University Drive to 1200 ft upstream	0.035	0.02-0.25
1200 ft upstream of University Drive to Adobe Street	0.030	0.05-0.25
Adobe Street to Brown Road	0.030	0.020-0.20
Brown Road to 650 ft upstream	0.030	0.03-0.06
650 ft upstream of Brown Road to Lindsay Road	0.035	0.03
Lindsay Road to 1400 ft upstream	0.035	0.03-0.06
1400 ft upstream of Lindsay Road to 2200 ft upstream	0.035	0.03-0.15
2200 ft upstream of Lindsay Road to McKellips Road	0.035	0.02-0.14
McKellips Road to 3000 ft upstream	0.030	0.02-0.25
3000 ft upstream of McKellips Road to Hermosa Vista Drive	0.030	0.03-0.06

Notes: 1) A horizontal varied 'n' value (NH record) was used, where significant 'n' value variation occurred which did not seem reasonable to model with a weighted overbank 'n' value.

2) A Manning's 'n' value of 0.250 was used for permanent houses, buildings with concrete masonry unit (cmu) walls perpendicular to flow. A 'n' value of 0.20 was used with permanent buildings with chain link (cl) fence or mixtures of wood, cmu and cl fence perpendicular to flow. A 'n' value of 0.15 was used for mobile homes on blocks or RV's on wheels with cl fence perpendicular to flow.

3) A Manning's 'n' of 0.012 was used for the concrete pipes.

4) A Manning's 'n' of 0.06 was used for citrus groves.

The hydraulic analyses for this study were based on unobstructed flow. Flow profiles were not compared to historical events. No information exists on flood elevations and historical discharges for the study streams with which to make this comparison.

All elevations are referenced to the National Geodetic Vertical Datum of 1929 (NGVD). Elevation reference marks and descriptions used in this study are shown on the maps (Exhibit 3) and summarized in this report (Exhibit 2). A conversion to North American Vertical Datum 1988 (NAVD88) is also included in Exhibit 2.

A review of the hydrology results along the canal in conjunction with the road crossing structure inventory and hydraulic analysis indicated that there was inadequate capacity to convey the 100-year discharges.

Therefore, the initial hydraulic analysis attempted to evaluate the conveyance capacity discharges along the Eastern Canal that resulted in water surface elevations near the top of east bank (Profile 1) and at 0.5 foot above top of east bank (Profile 2).

A May 1, 1997 letter report (Reference 9) from A-N West to the FCDMC and the City of Mesa transmitted the preliminary HEC-2 model hydraulic analysis, floodplain mapping, cross-section plots, road crossing inventory, culvert capacity and comparison of top of banks to computed water surface elevations and discharges for this Profile 1 and 2 analysis. Approximately 14 different areas of breakout over the Eastern Canal were identified for discharges ranging from 1 to 260 cfs for Profile 1 and discharges of 1 to 430 cfs for Profile 2. The computed 100-year discharges along the Eastern Canal ranged from 273 to 1206 cfs. The May 1, 1997 letter report indicated that a detailed 100-year riverline analysis along the canal would not be possible due to the numerous flow breakouts.

A meeting was held on May 9, 1997 with representatives of the City of Mesa, FCDMC, A-N West, Inc and Primatech Engineers, Inc. to review the results of the May 1, 1997 (Reference 9) letter report.

At this meeting, the City of Mesa requested that an updated Approximate Zone A 100-year floodplain be delineated. This delineation was to be based on their experience in administering and identifying the floodplain limits for the effective Approximate Zone A 100-year floodplain. The delineation was identified as the floodplain width and water surface elevation associated with the low top of high east or west top of canal bank within approximately 200 feet longitudinally of any location of interest along the canal.

This updated Approximate Zone A was transmitted to the FCDMC and the City of Mesa in a letter from A-N West (Reference 10) with supportive preliminary mapping and data table.

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS

4.1 Floodplain Boundaries

For the streams studied, the flood boundaries were delineated using the topographic maps at a scale of 1:2,400 and with contour interval of 2 feet (Reference 1).

The initial study Profile 1 and 2 floodplain boundaries as well as the effective and updated Approximate Zone A 100-year floodplain boundaries are shown on the Flood Insurance Rate Map, (Exhibit 3). On this map, the 100-year floodplain boundary corresponds to the boundary of the

areas of special flood hazard. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

4.2 Floodways

No floodway was prepared for this study.

5.0 INSURANCE APPLICATION

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. These zones are as follows:

Zone A

Zone A is the flood insurance rate zone that corresponds to the 100-year floodplains that are determined in the Flood Insurance Study by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no base flood elevations or depths are shown within this zone.

Zone AO

Special Flood Hazard Areas inundated by types of 100-year shallow flooding where depth are between 1.0 and 3.0 feet; depths are shown, but no FHFs are determined.

Zone AH

Zone AH is the flood insurance rate zone that corresponds to the areas of 100-year shallow flooding with a constant water-surface elevation (usually areas of ponding) where average depths are between 1 and 3 feet. The BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone AE

Zone AE is the flood insurance rate zone that corresponds to the 100-year floodplains that are determined in the Flood Insurance Study by detailed methods. In most instances, whole-foot base flood elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone X

Zone X is the flood insurance rate zone that corresponds to areas outside the 100-year floodplain, and areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding, where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No base flood elevations or depths are shown within this zone.

6.0 OTHER STUDIES

No previous FEMA Flood Insurance Studies were found for the study area. The effective FEMA Flood Hazard Zone for the study area was an approximate Zone A (no discharges or BFE's presented).

7.0 LOCATION OF DATA

Information concerning the pertinent data used in the preparation of this study can be obtained by contacting the Natural and Technological Hazards Division, FEMA, Presidio of San Francisco, Building 105, San Francisco, California 94129.

8.0 BIBLIOGRAPHY AND REFERENCES

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2. U.S. Department of Army, Corps of Engineers, Hydrologic Engineering Center, Davis, California 95616, HEC-2, Computer Program, Water Surface Profiles Version 4.6.2. Dated: May, 1992

3. U.S. Geological Survey, Water Resources Division, 375 South Euclid Avenue, Tucson, Arizona 85719, Estimated Manning's Roughness Coefficients for Stream Channels and Floodplains in Maricopa County, Arizona, by B.W. Thomson and H.W. Hjalmarson, for Flood Control District of Maricopa County; April, 1991.

4. Hydrology Report for Eastern Canal, FCD No. 96-10 by Primatech Engineers.

5. US Department of Army, Corps of Engineers, Hydrologic Engineering Center, Davis, California 95616, HEC-1, Flood Hydrograph Package Computer Program, Version 4.0, September, 1990.

6. Hydrologic Design Manual for Maricopa County, Arizona, Prepared by Special Projects Branch, Hydrology Division, Flood Control District of Maricopa County, Dated: September, 1990 with June, 1992 Revisions.

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8. Chow, Ven T., Open Channel Hydraulics, New York: McGraw-Hill Book Company 1959.

9. A-N West letter report of May 1, 1997 to FCDMC and City of Mesa transmitting preliminary hydraulic HEC-2 model analysis results which identified numerous breakouts over the Eastern Canal.

10. A-N West letter of May 15, 1997 to FCDMC and City of Mesa transmitting preliminary updated Approximate Zone A 100-year floodplain mapping and data table.

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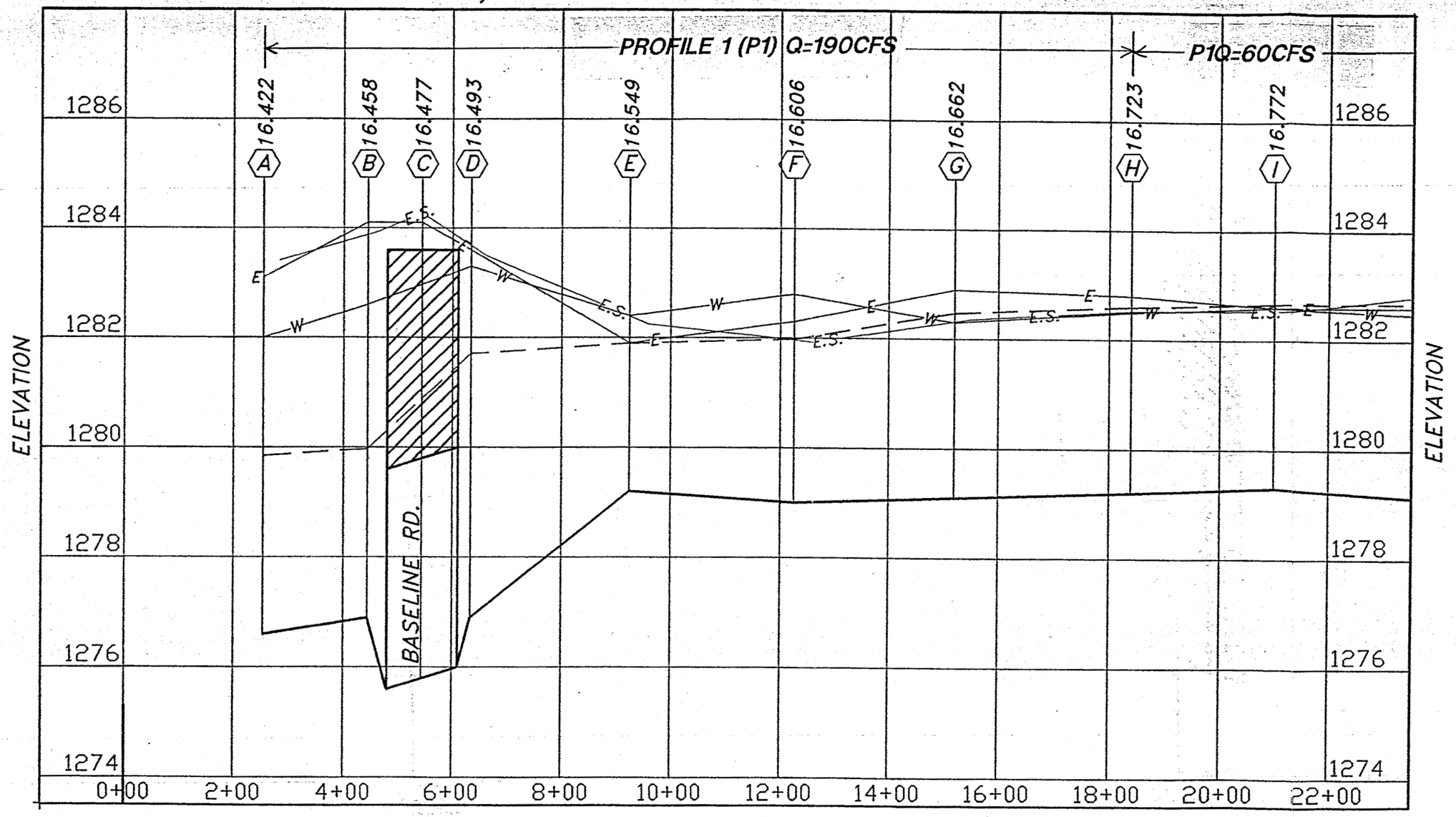
A-N WEST No. 7158-04, FCDMC No. 96-10



DISTANCE IN FEET ALONG HYDRAULIC BASELINE INCREASING UPSTREAM
FROM CONFLUENCE WITH GILA RIVER FLOODPLAIN (3800FT. S. OF HUNT HIGHWAY/ AZ AVE)

SCALE: H: 1"=200' V: 1"=2'

FLOOD PROFILES
FEDERAL EMERGENCY MANAGEMENT AGENCY
EASTERN CANAL F.I.S.
CITY OF MESA, MARICOPA COUNTY, ARIZONA

LEGEND

- WSEL (PROFILE 1)
- STREAM BED
- (M) CROSS SECTION LOCATION
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- E. TOP OF EAST CANAL BANK
- E.S. EAST CANAL BANK SURVEYED ELEV.

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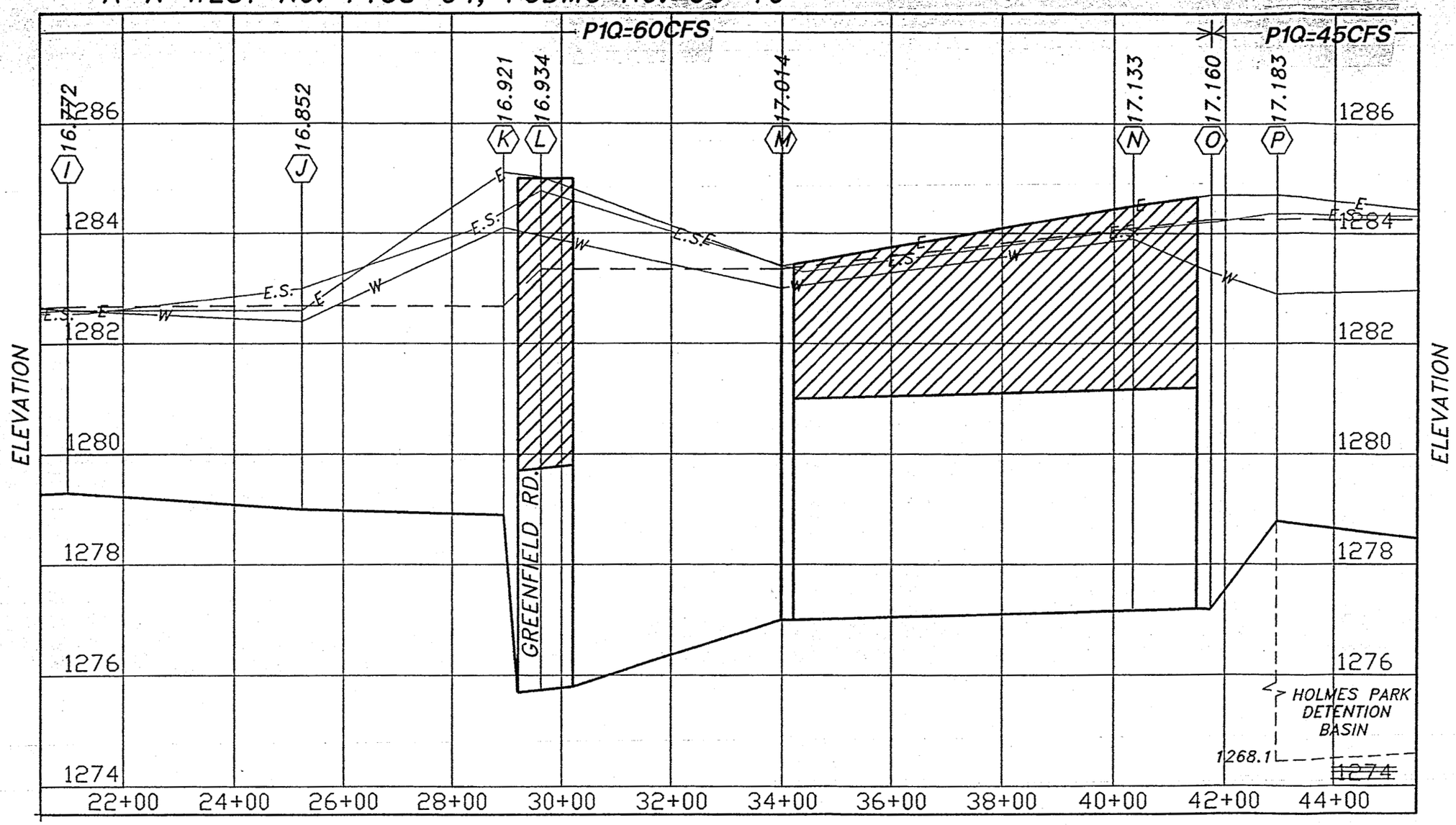

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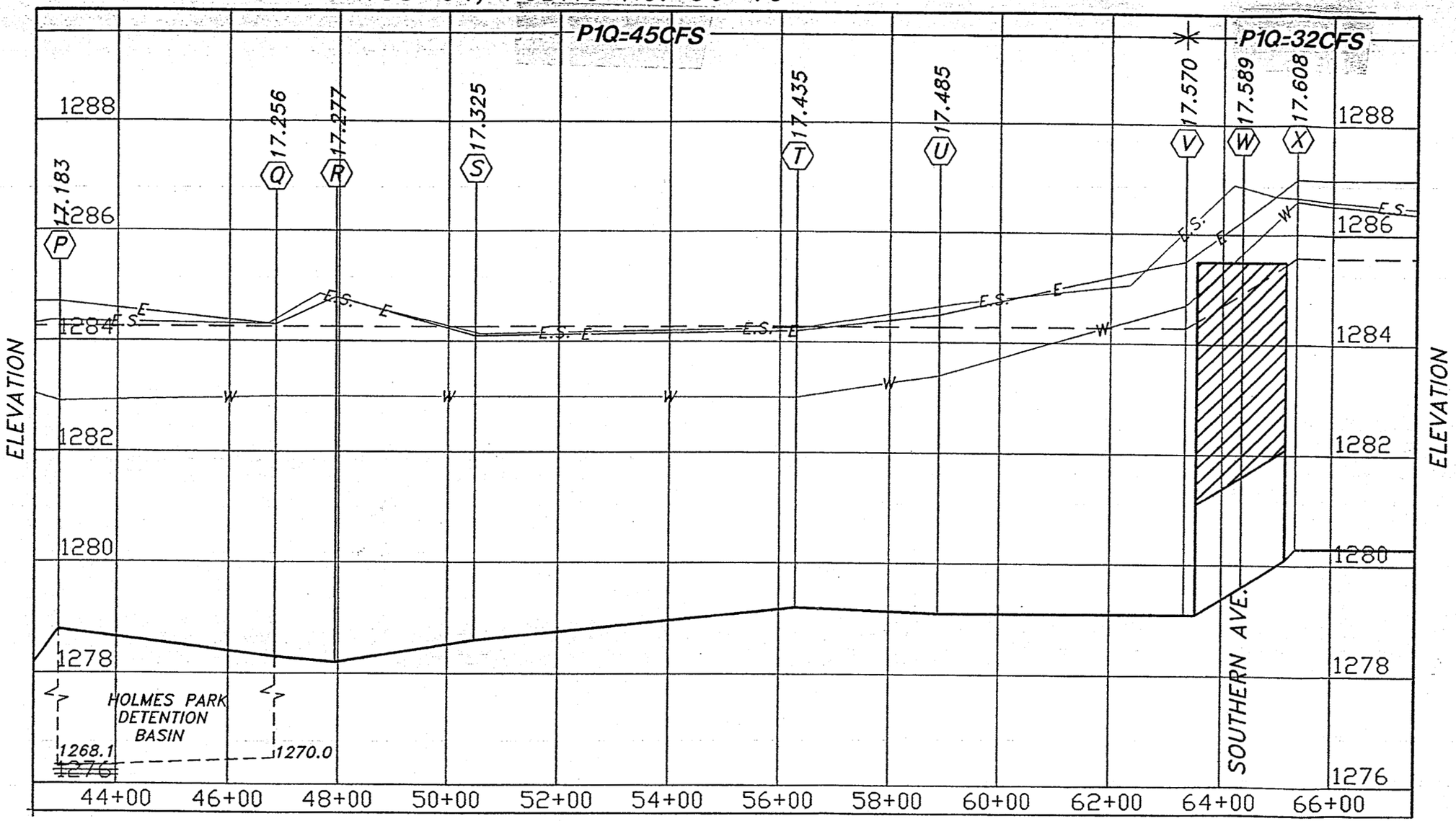

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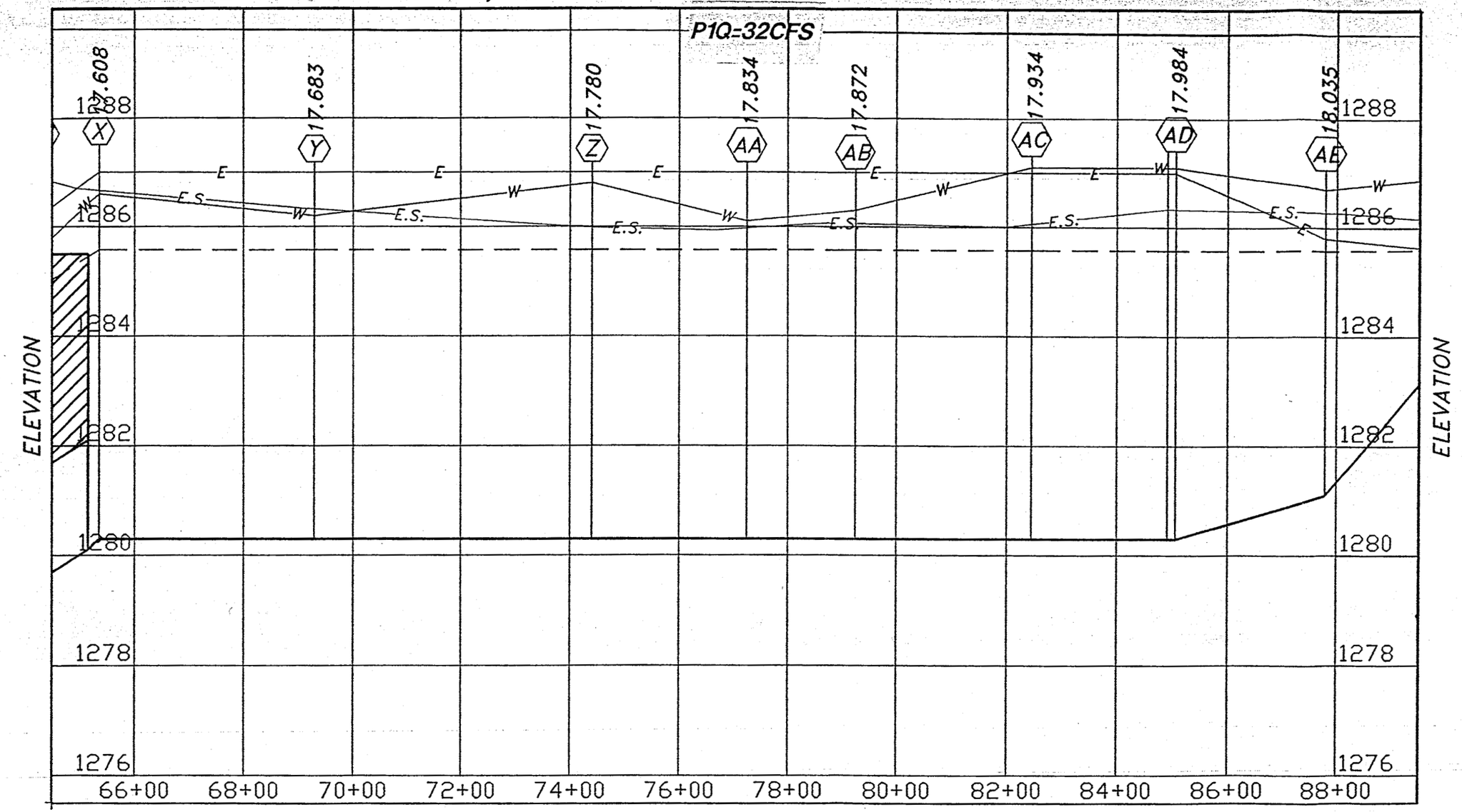

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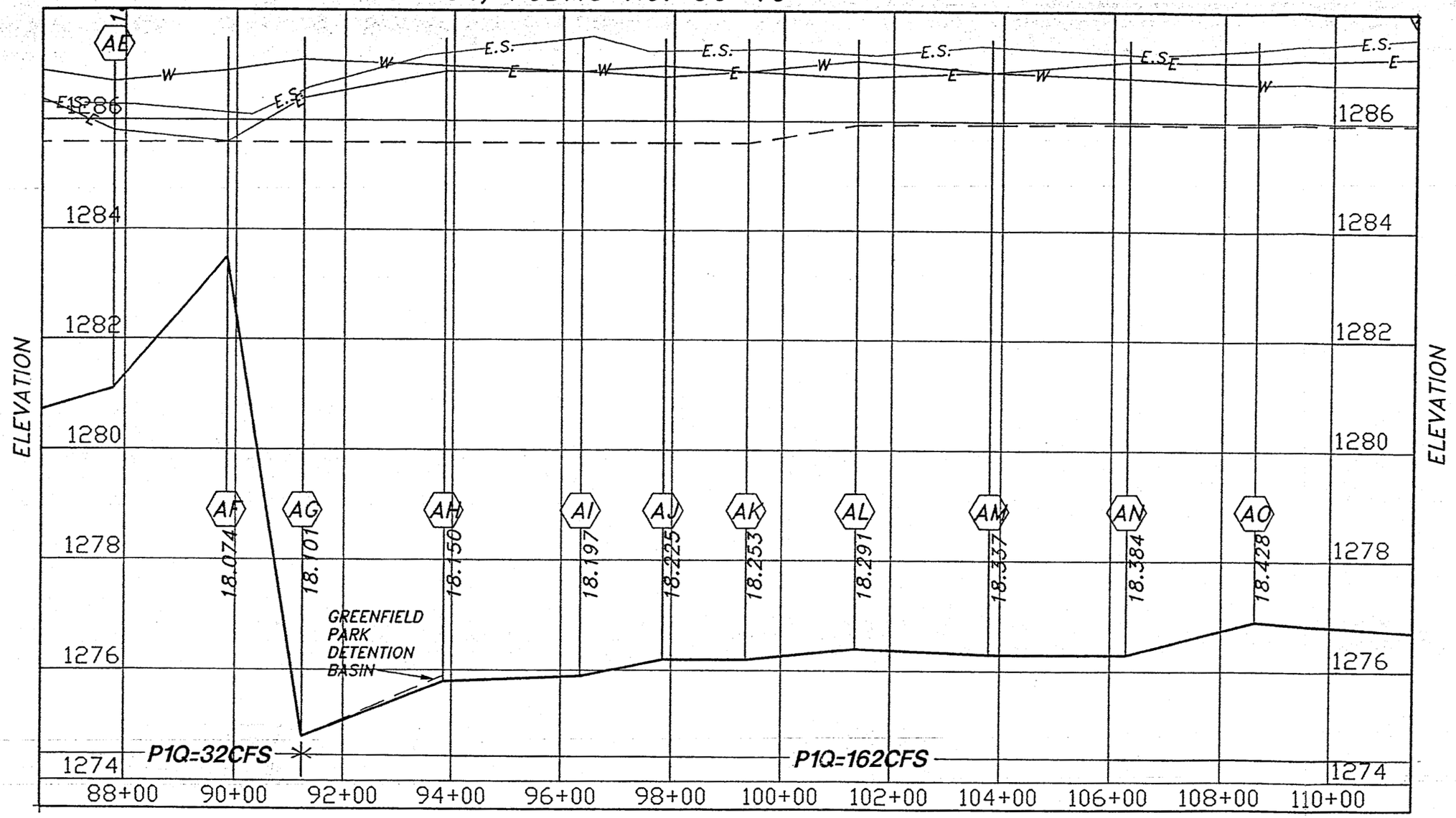

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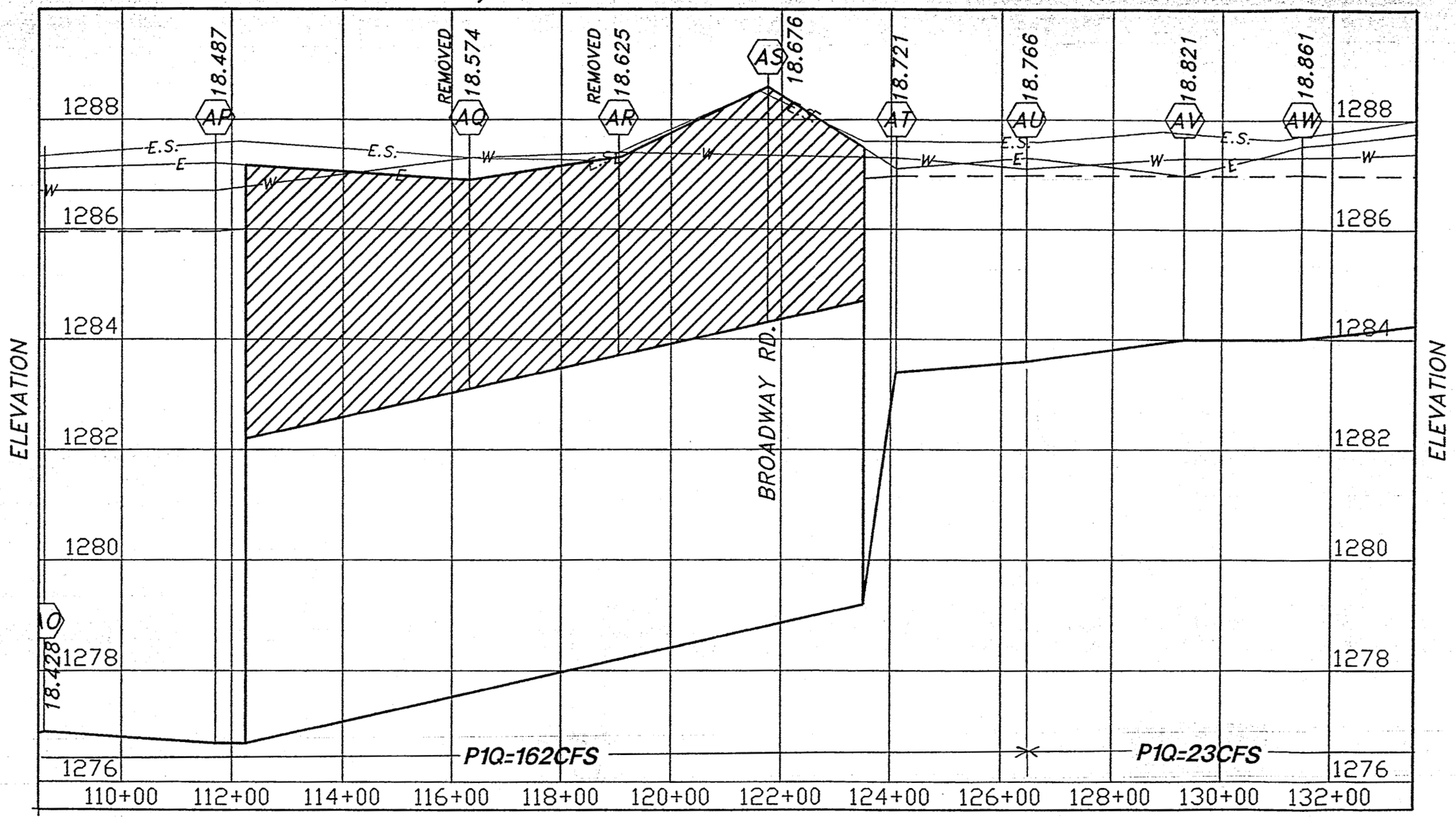

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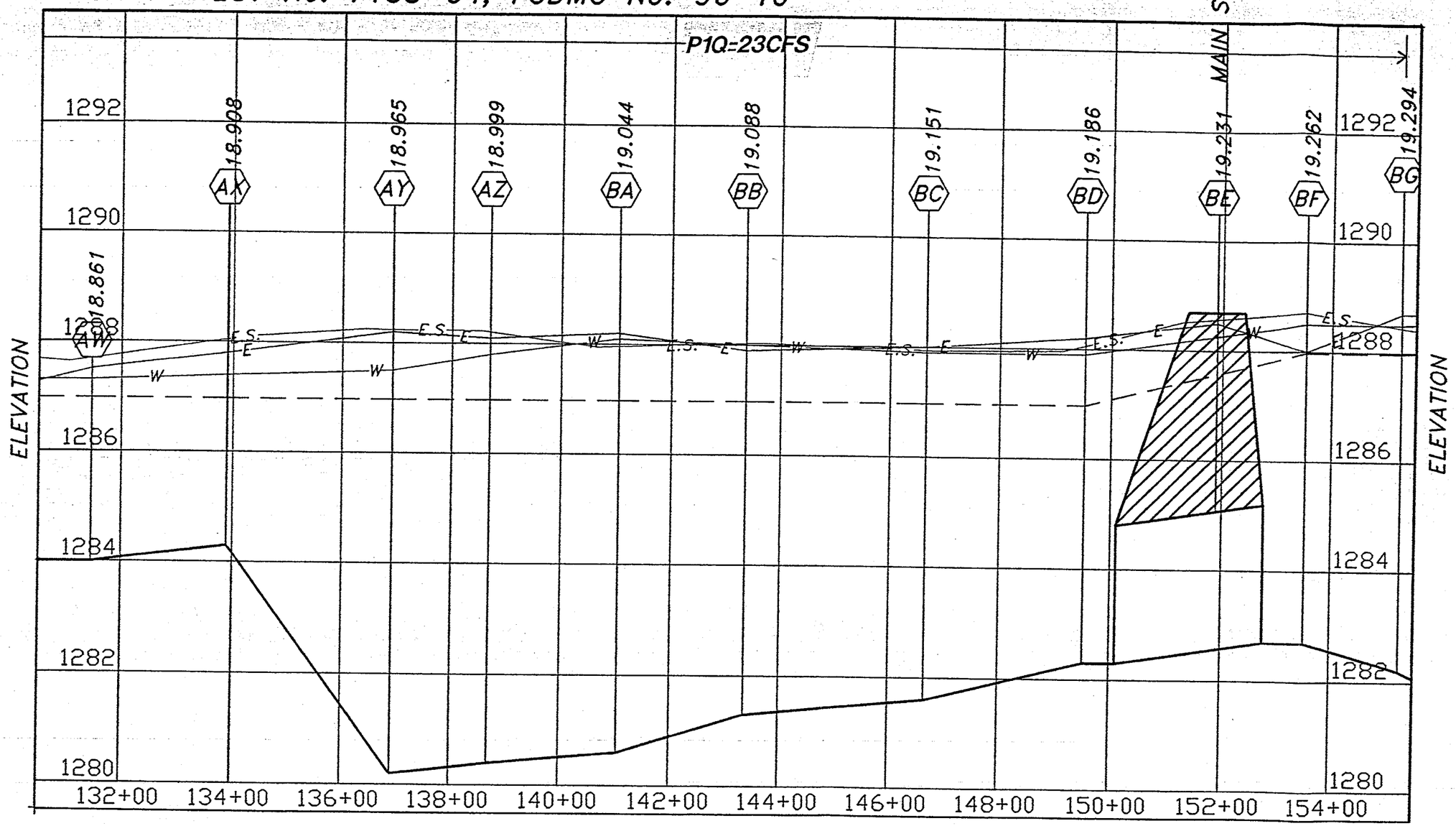

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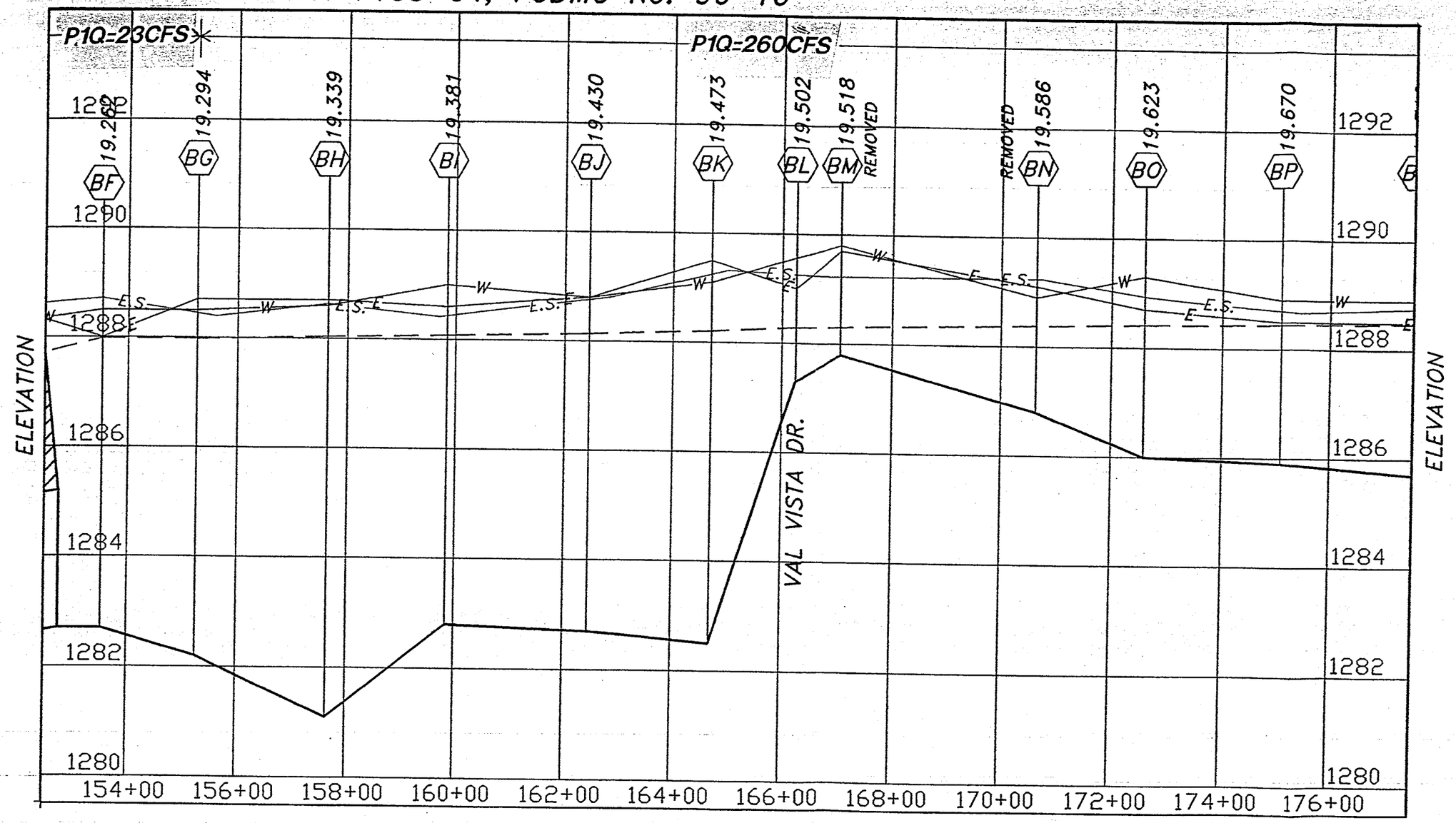

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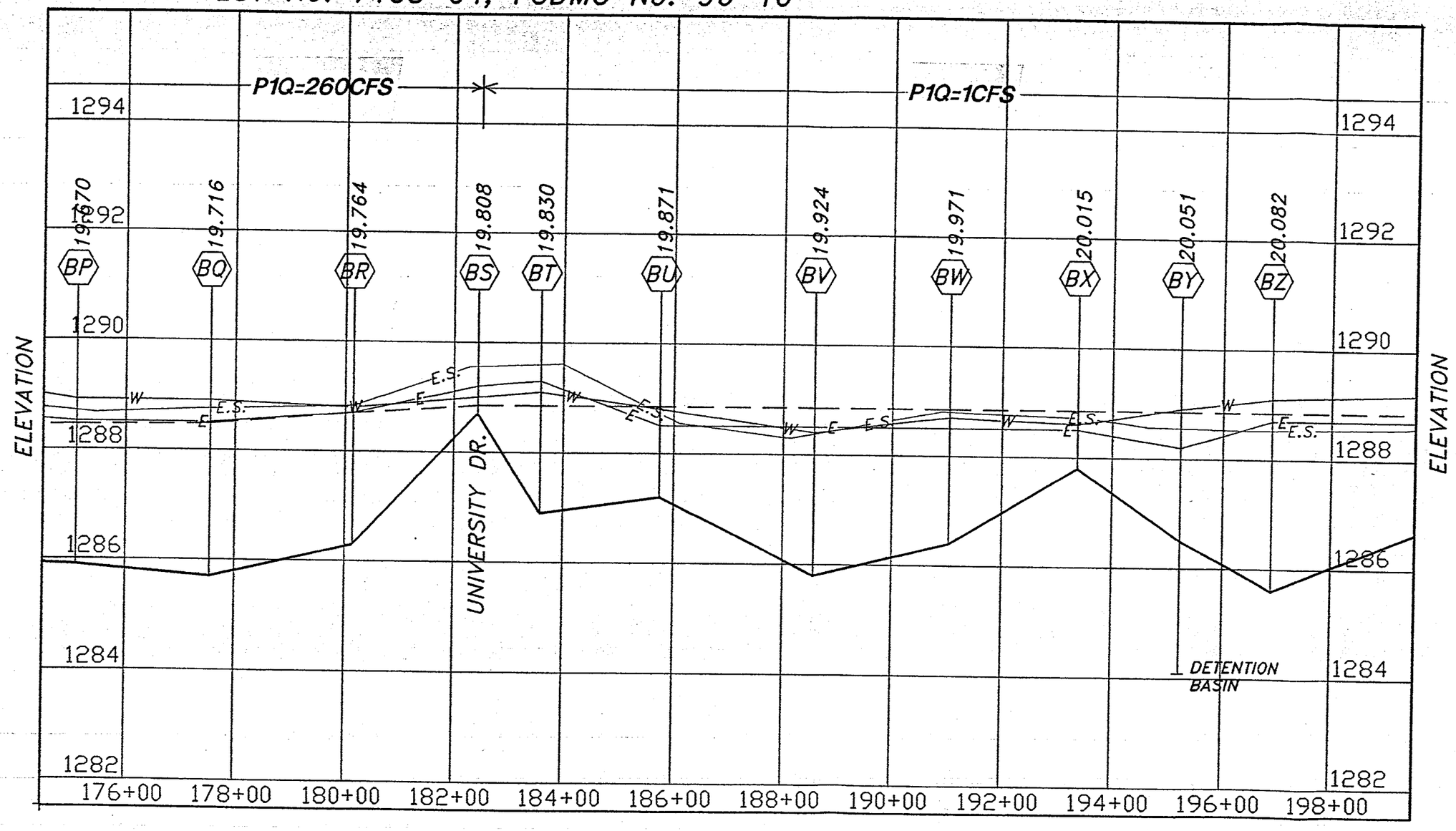

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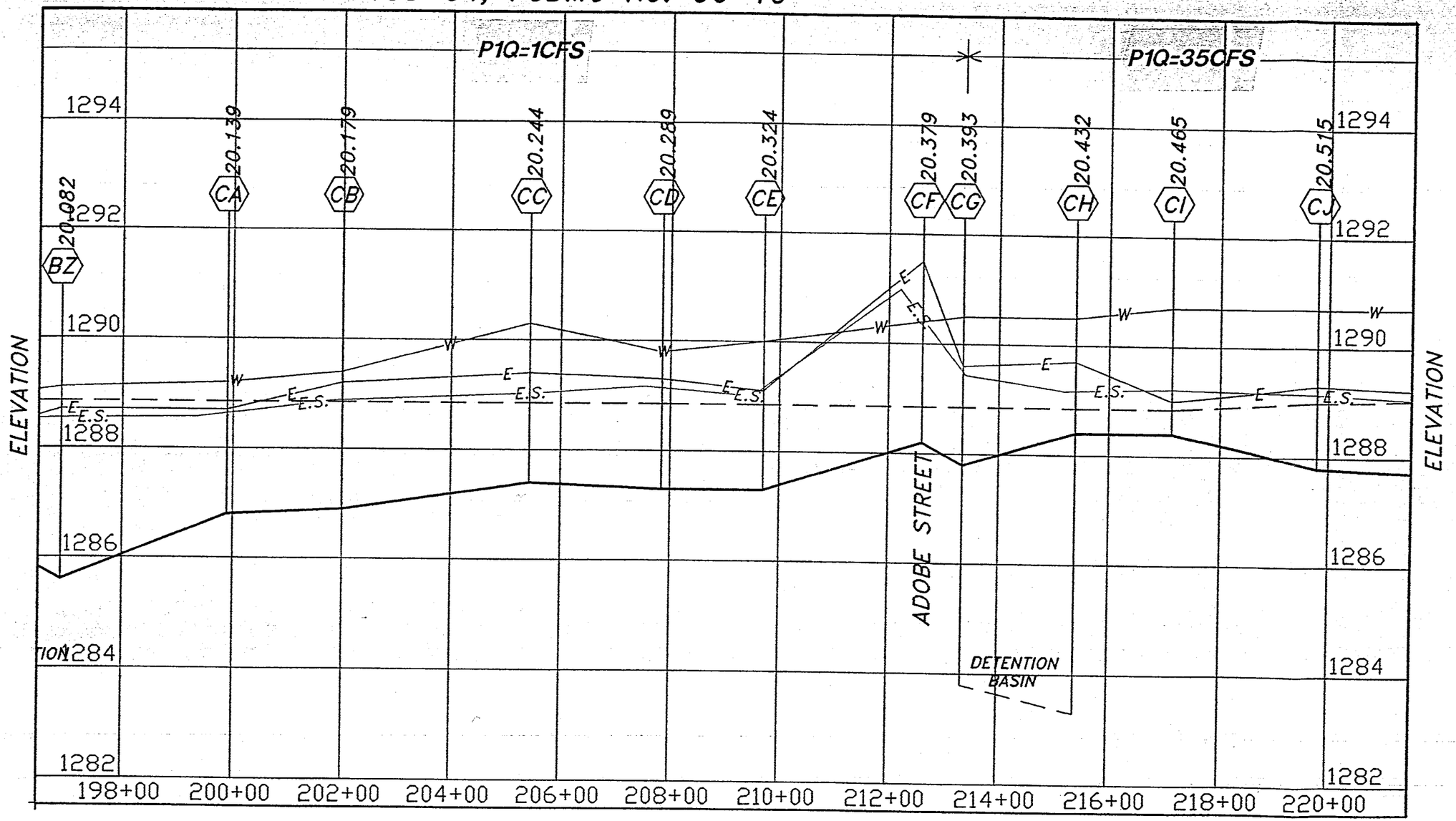

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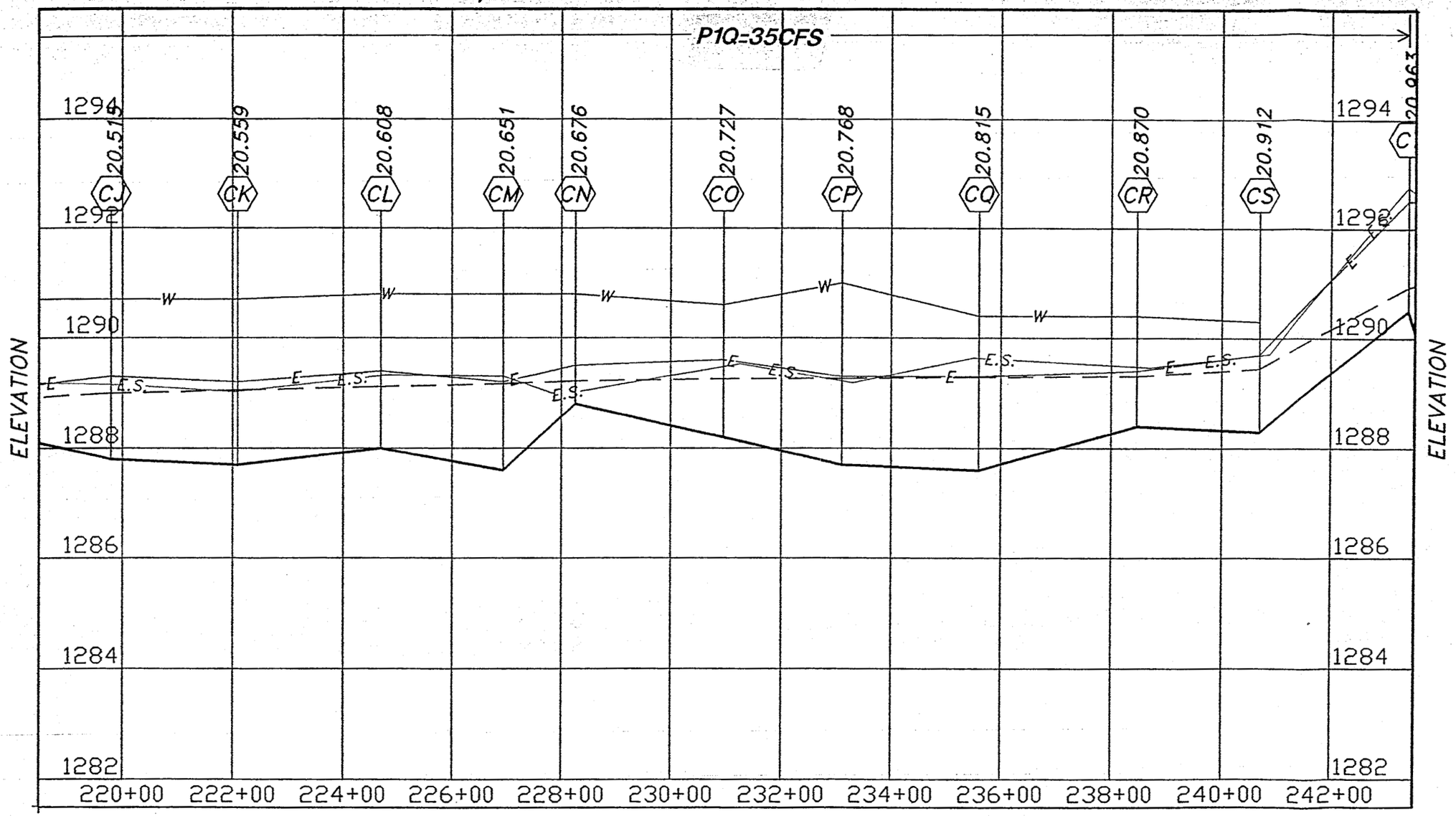

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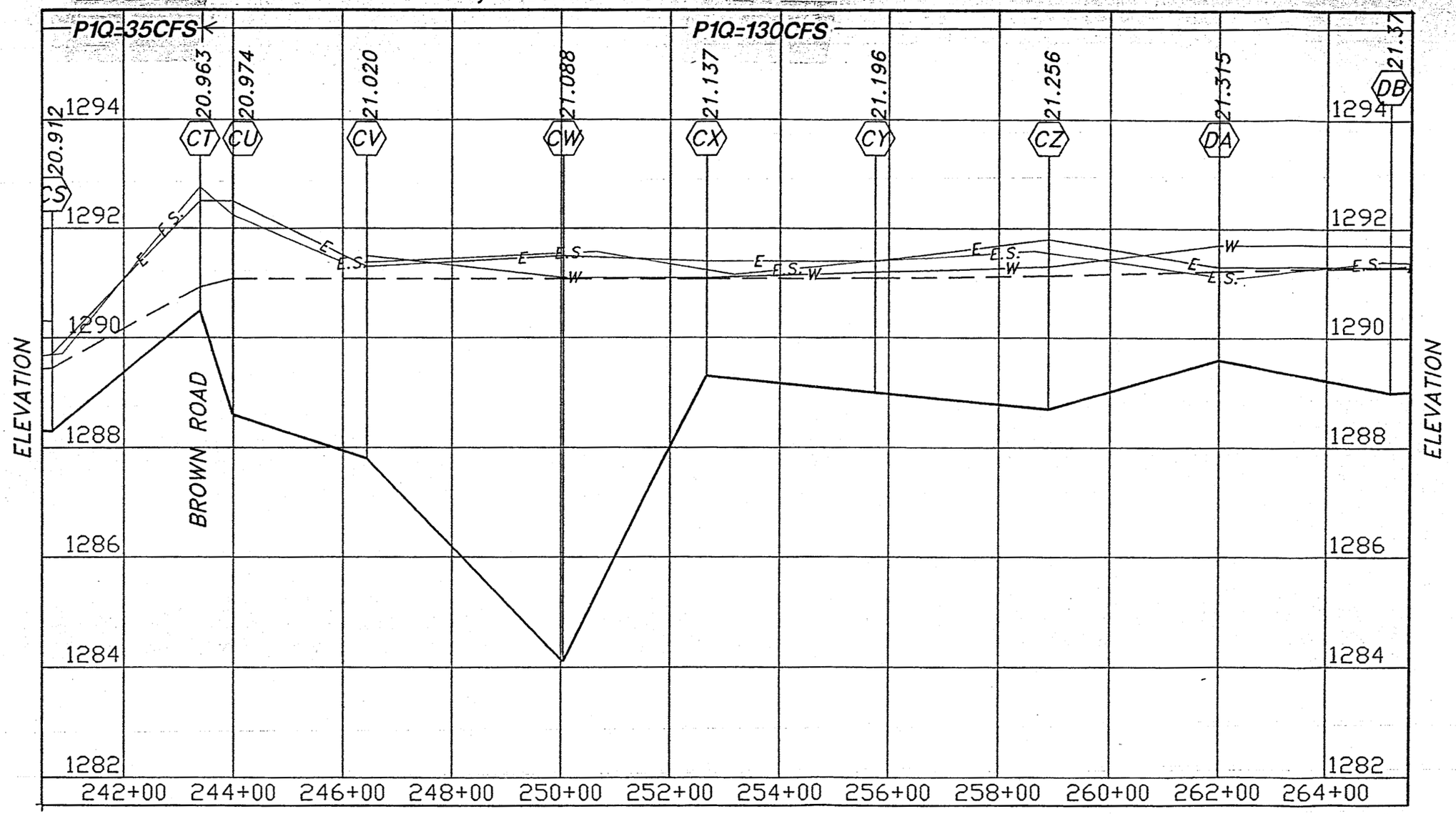

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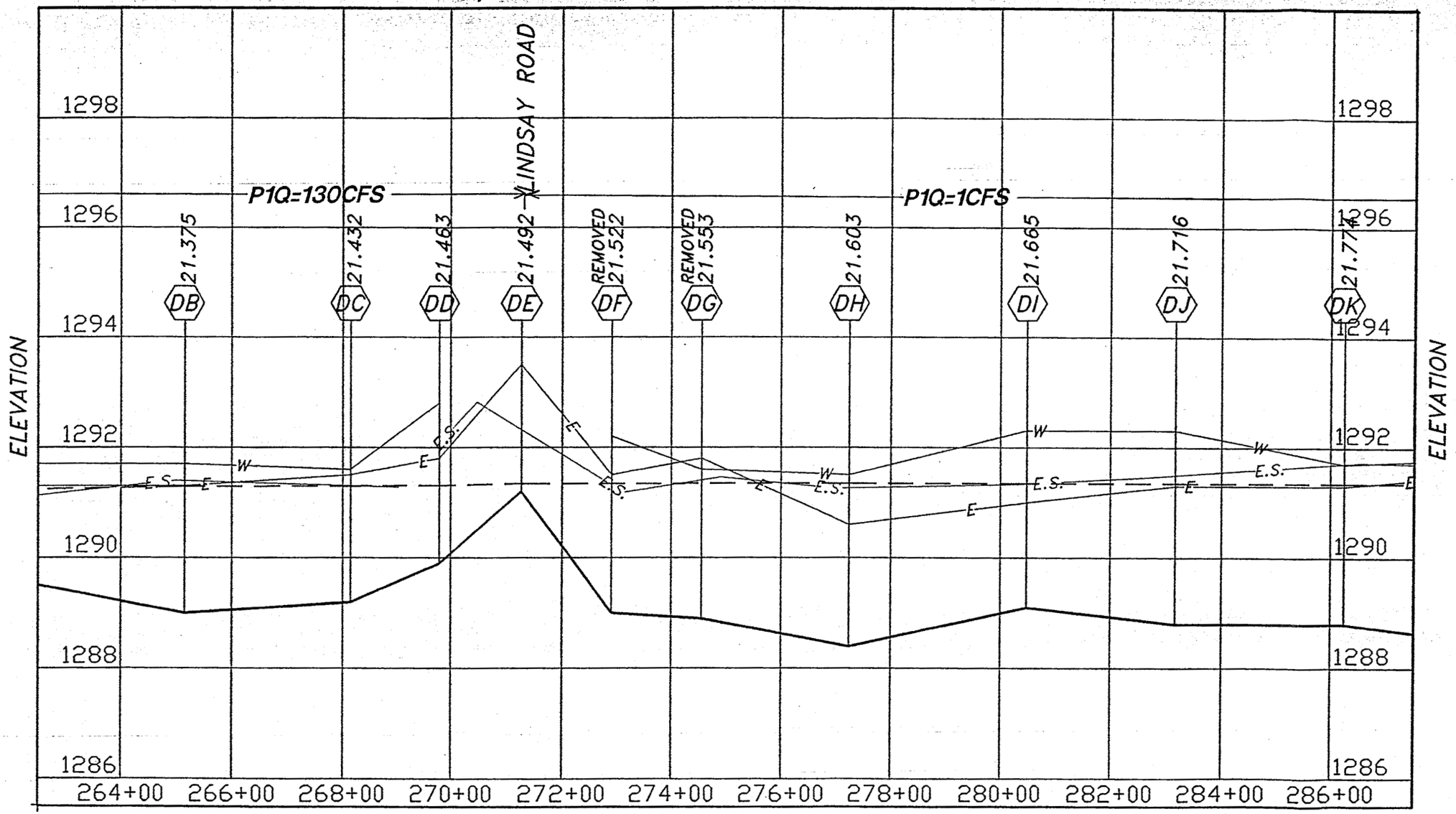

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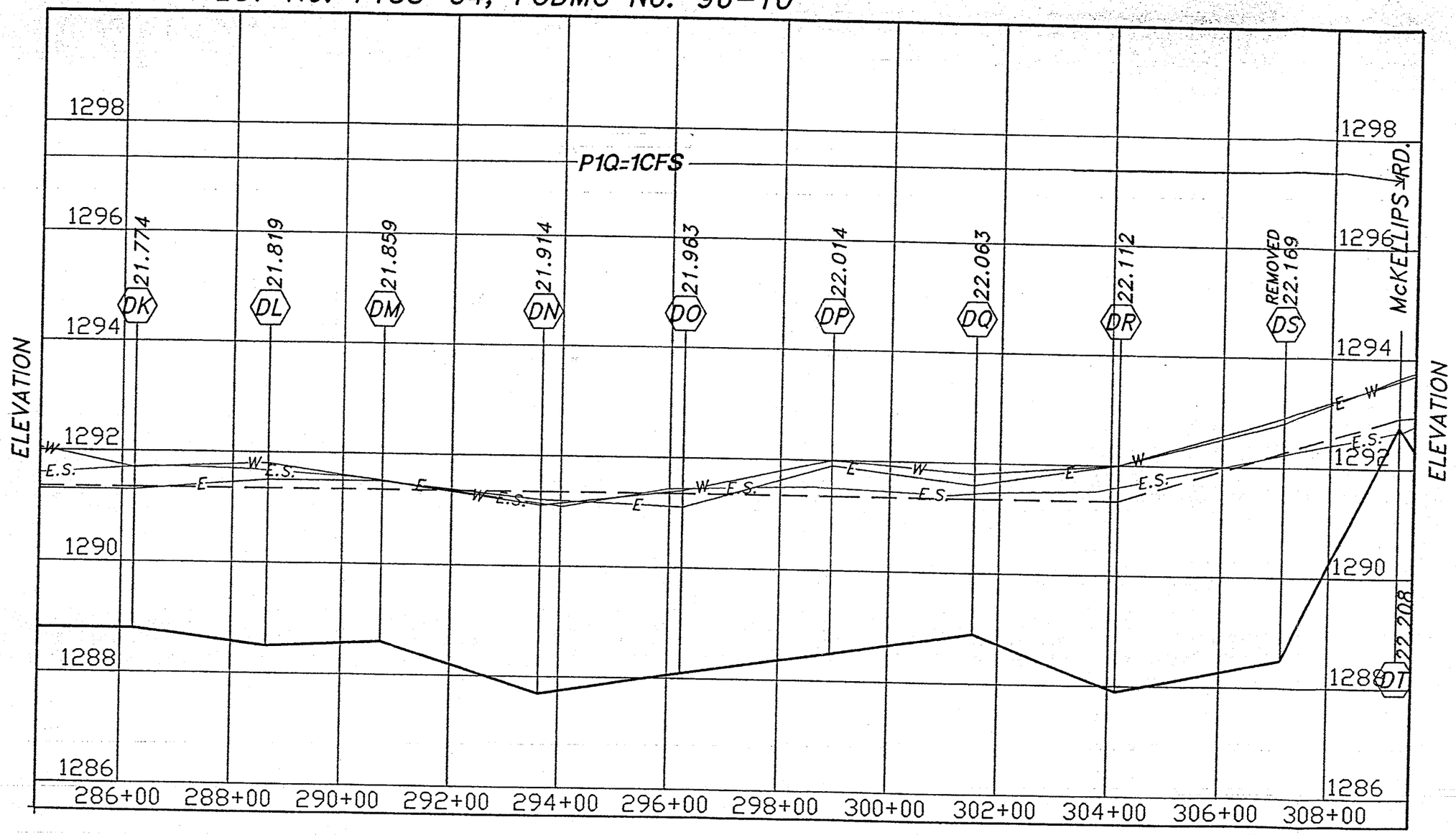

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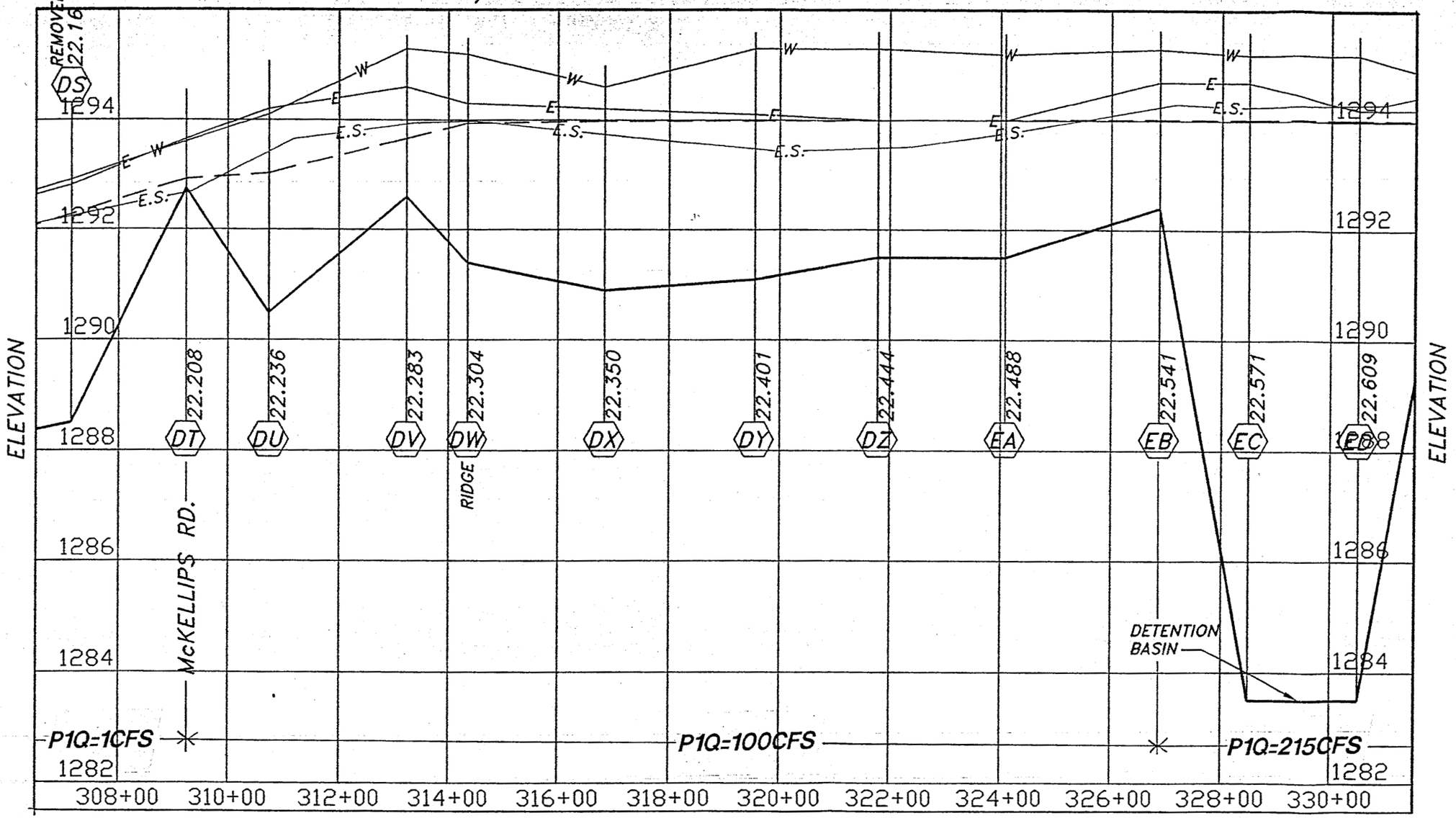

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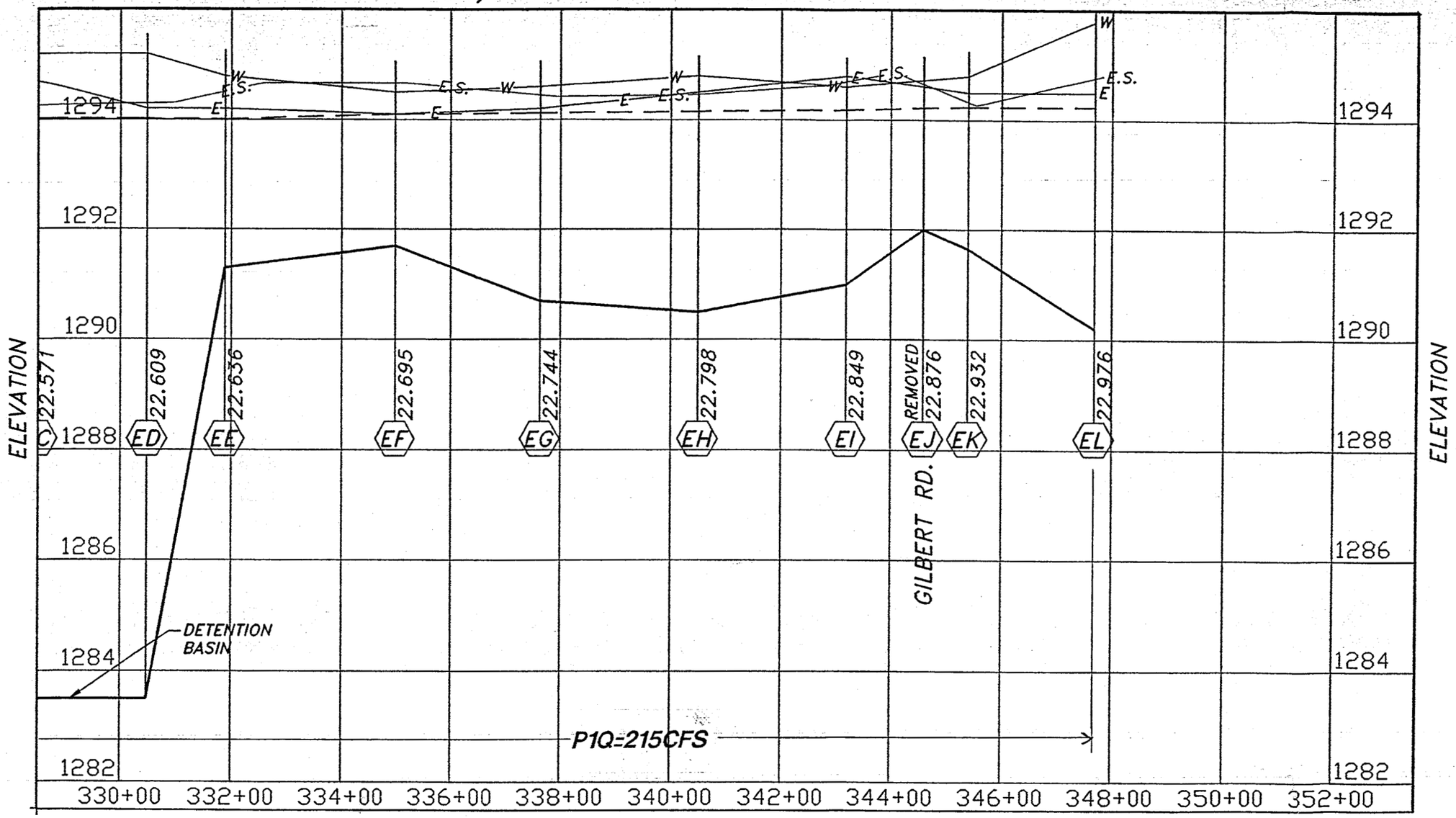

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EXHIBIT 2

Elevation Reference Mark (ERM) Descriptions

ERM No.	Description	NGVD 29 Elev.	NAD 83 N. (ft)	S.P.C. E (ft)
20	C.O.M. Brass Cap in handhole (0.72' below rim) at Inter. Hermosa Vista Dr./Old Gilbert Rd.	1292.12	894590.030	739374.180
26	Unmarked Brass Cap in handhole at centerline McKellips, at 100± ft west of E. Canal bridge (0.30' below rim) 0.63' below pavmt.	1292.99	891936.798	741857.621
9	C.O.M. Brass Cap in handhole (0.90' below rim) at Inter. Brown/Lindsay Rds.	1281.32	886648.012	744461.693
31	C.O.M. Brass Cap in handhole (0.58' below rim) at Inter. University Dr. and Val Vista Dr.	1290.53	881382.552	749739.987
34	C.O.M. Brass Cap in handhole (0.48' below rim) at Inter. Val Vista Dr. and Broadway Rd.	1274.10	876101.923	749711.450
37	C.O.M. Brass Cap in handhole (0.49' below rim) at Inter. Southern Ave. and Greenfield Rd.	1289.79	870852.388	754980.869
40	C.O.M. Brass Cap in handhole (0.49' below rim) at Inter. of Baseline Rd. and E. Valley Auto Dr.	1277.84	865554.298	755328.570

Elevation Datum Conversion:
NAVD 88 - NGVD 29 (meters) = +0.534 (± 2 cm) at Val Vista Road/Broadway Road per Project Engineering Consultants Ltd.