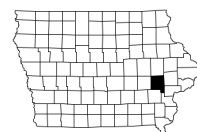


JOHNSON CO.
 UNKNOWN PAVEMENT - GRADE AND REPLACE
 IM-NHS-380-6(326)2--03-52
 LETTING DATE
 8/20/2019



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM

JOHNSON COUNTY

UNKNOWN PAVEMENT - GRADE AND REPLACE

Approx 0.25 mi S of W Forevergreen Rd to approx 1.25 mi N
of W Forevergreen Rd (NB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



For Project Location Map
Refer to Sheet A.2

1380	
DESIGN DATA RURAL	
2004 AADT	32,700 V.P.D.
2040 AADT	74,540 V.P.D.
20-- DHV	-- V.P.H.
TRUCKS	-- %
Total	
Design ESALs	--

REVISIONS

TOTAL

46

PROJECT IDENTIFICATION NUMBER

02-52-080-010-01

PROJECT NUMBER

IM-NHS-380-6(326)2--03-52

R.O.W. PROJECT NUMBER

IMN-380-6(331)2--0E-52

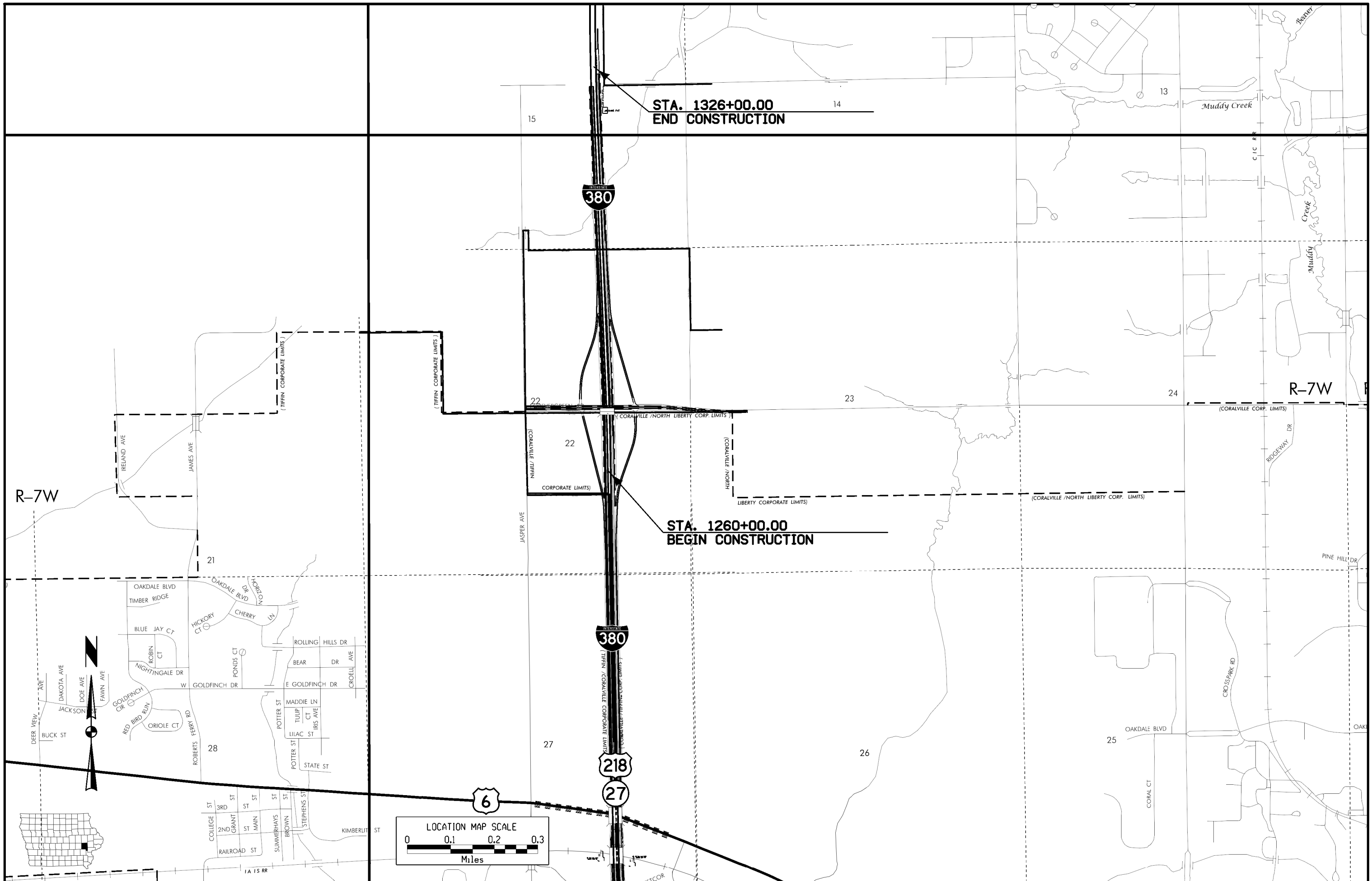
INDEX OF SHEETS

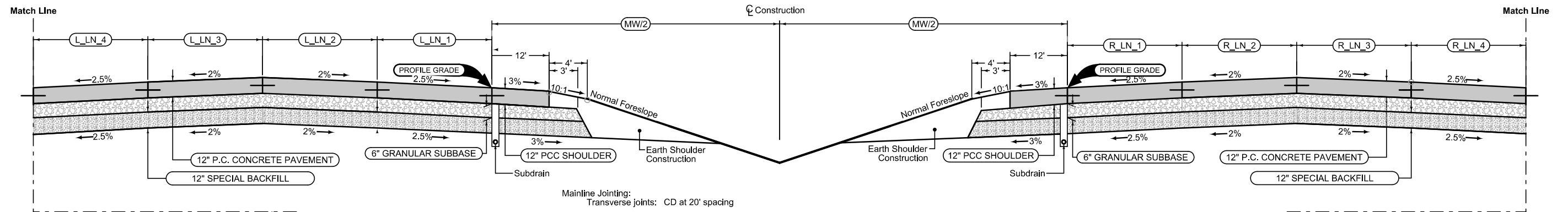
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 2	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
E Sheets	Side Road Plan and Profile Sheets
* E.1 - 6	I380
G Sheets	Survey Sheets
G.1 - 8	Details of Reference Information
G.9 - 10	Alignment Coordinates
V Sheets	Bridge and Culvert Situation Plans
V.1	Culvert Situation Plans
V.2	Culvert Situation Plans
X Sheets	Side Road Cross Sections
X.1 - 23	I380
	* Color Plan Sheets

PRELIMINARY PLANS

Subject to change by final design.

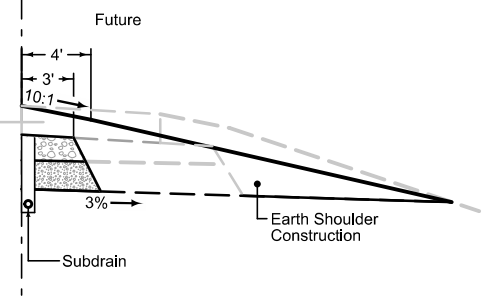
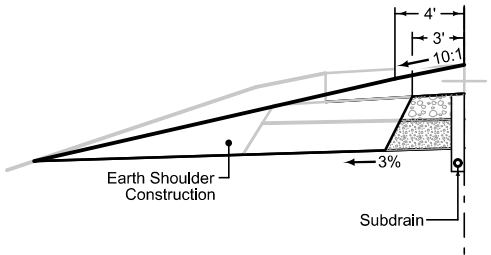
D5 PLAN - Date: 3/25/2016



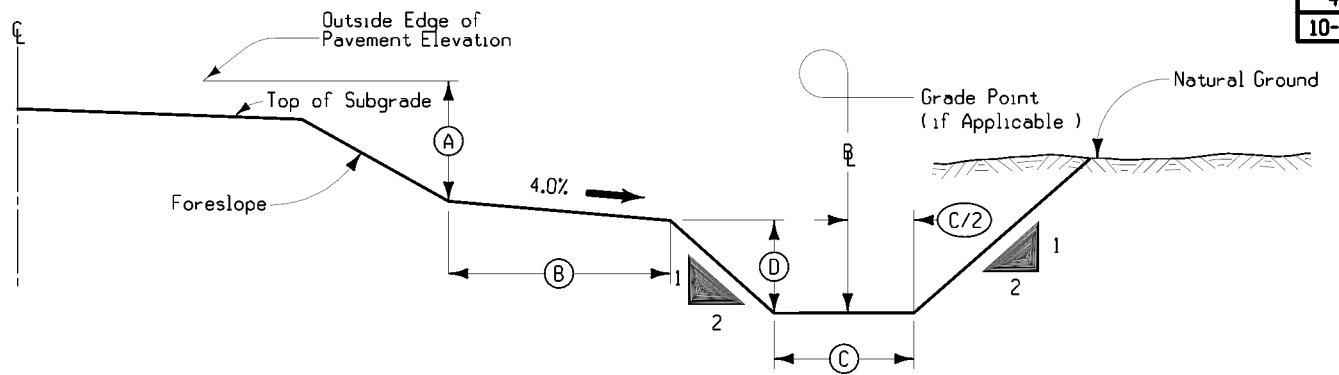


Mainline Jointing:
Transverse joints: CD at 20' spacing

BEGIN STATION	END STATION	MW Feet	L_LN_4 Feet	L_LN_3 Feet	L_LN_2 Feet	L_LN_1 Feet	R_LN_1 Feet	R_LN_2 Feet	R_LN_3 Feet	R_LN_4 Feet
1260+00.00	1326+00.00	58	12	12	12	12	12	12	12	12



4204
10-03-00

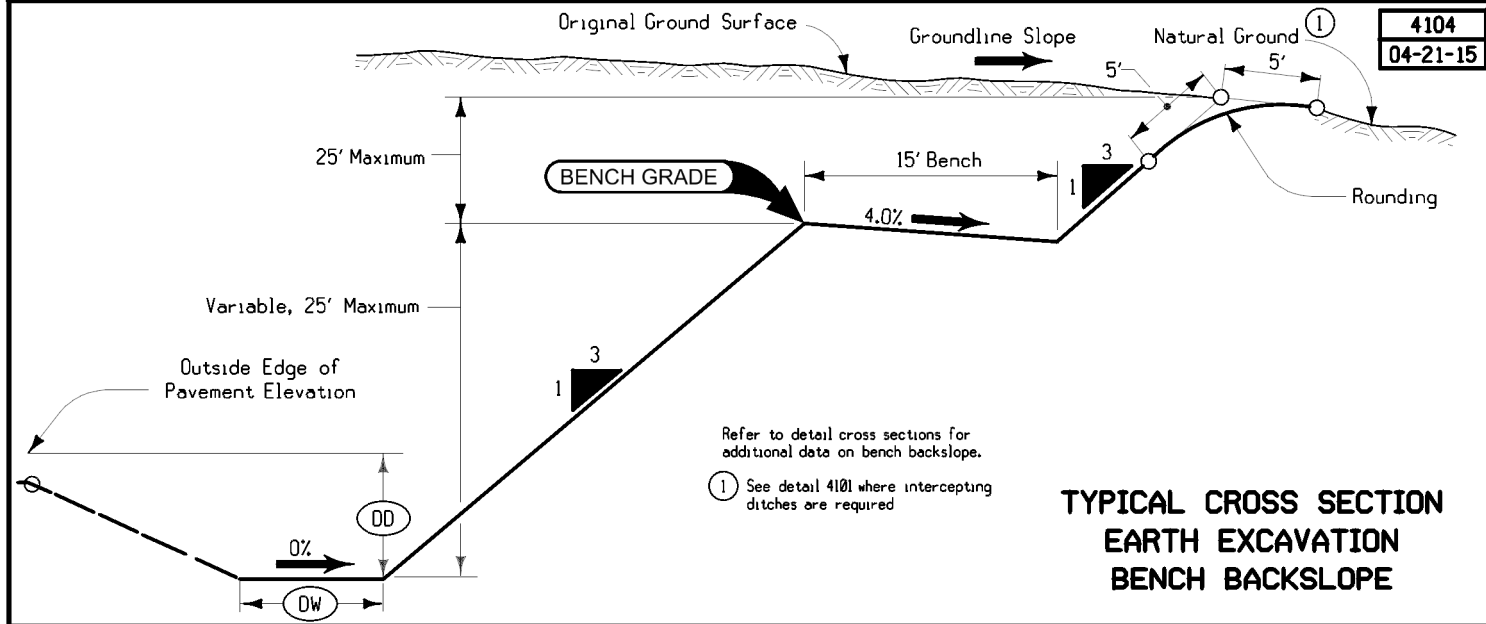


DETAILS OF TYPICAL SPECIAL DITCH

LOCATION		SIDE	A Feet	B Feet	C Feet	D Feet
STATION TO STATION						
1303+78.58	1303+78.58	R	Variable	10	10	Variable
1308+00.00	1309+75.00	R	Variable	10-148.6	10	Variable

Note:
Details shown are typical. Refer to plan cross sections for additional data on Special Ditches.

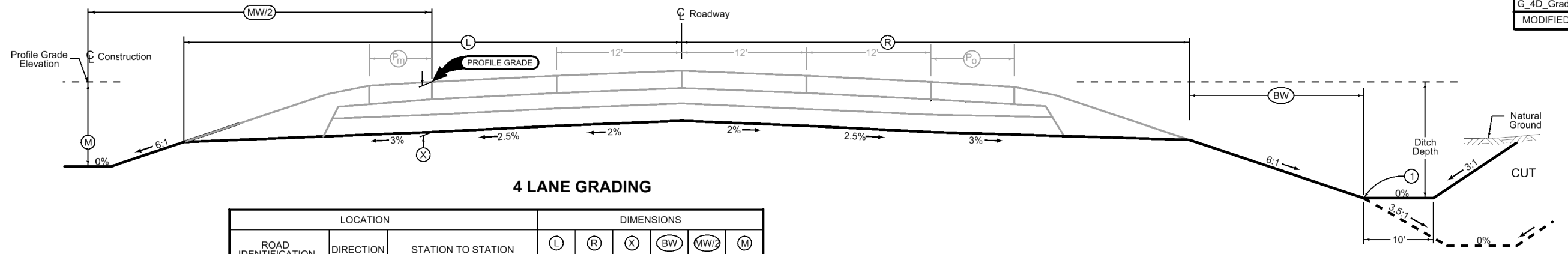
4104
04-21-15



**TYPICAL CROSS SECTION
EARTH EXCAVATION
BENCH BACKSLOPE**

Refer to detail cross sections for additional data on bench backslope.
① See detail 4101 where intercepting ditches are required

G_4D_Grade
MODIFIED



4 LANE GRADING

ROAD IDENTIFICATION	DIRECTION	LOCATION		DIMENSIONS						
		STATION TO STATION		L Feet	R Feet	X Inches	BW Feet	MW/2 Feet	M Feet	
I-380	Both	1260+00.00	1326+00.00	52.8	48.9	18	17.2	29	2.4	

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.

① Refer to project plan and cross sections for specific location of foreslope change.

SURVEY SYMBOLS

	BNK Stream Bank		TW Top of Water
	D Centerline Draw or Stream (Down)		WEL Well
	DIK Centerline of Dike or Dam		WH Water Hydrant
	DU Centerline Draw or Stream (Up)		COR Round Bridge Pier Column
	EW Edge of Water		FHD Fire Hydrants
	FW Wire Fence		PR Electric Riser Pole
	IN Storm Sewer Intake		TDC Tree Deciduous
	LUM Luminaire		S Soil Sampling Site (Wetlands)
	MM Mile Marker Post		TV Satellite TV Dish
	OUT Tile Outlet		EB Electrical Box
	PRO Profile Shot		MIS Miscellaneous
	RIP Rip-Rap		PPC Power Pole Co. 3
	TIL Tile Line		WV Water Valve
	UE Utility Elevation		INB Storm Sewer Beehive Intake
	ENU Edge Unpaved Entrance & Parking		F03 SLN Section Line
	CON Concrete or A/C Slab		PPB Power Pole Co. 2
	EG Edge of Gravel Road		HT Electrical Highline Tower
	SNP Unpaved Shoulder		CP Control Point
	ENT Centerline BL of Entrance		
	BRG Bridge		
	FCL Chain Link and Security Fence		
	GDL Guard Rail Steel		
	GDC Guard Rail Cable		
	MH Utility Access (Manhole)		
	CIS Cistern		
	FLG Flag Poles		
	GV Gas Valve		
	HDG Hedge Row		
	PPA Power Pole Co. 1		
	RET Retaining Walls		
	RR Centerline of Railroad Tracks		
	SHR Shrub		
	SI Sign		
	SL Speed Limit Sign		
	SOP Size of Pipe or Culvert		
	SP Stream Profile		
	STP Stump		
	TPA Telephone Pole Co. 1		
	TPD Telephone Pedestal		

UTILITY LEGEND

This is a POINT 25 Project and is subject to the provisions of IAC 761-115.25.

	LINN CO. REC
	ALLIANT ENERGY
	MIDAMERICAN ENERGY
	T1 IOWA TELCOM
	T2 SOUTH SLOPE COOP. TEL. CO.
	F0 STATE OF IOWA (ICN)
	F02 SOUTH SLOPE COOP. TEL. CO.
	F03 U.S. WEST
	F04 MCLEOD
	F05 IOWA TELCOM
	E1 LINN CO. REC
	E2 ALLIANT ENERGY
	G MIDAMERICAN ENERGY
	G-HP MIDAMERICAN ENERGY
	W CITY OF NORTH LIBERTY
	San. CITY OF NORTH LIBERTY
	St.S. CITY OF NORTH LIBERTY
	St.S.2 PRIVATE

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	Description
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		
Design Color No.	Description	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

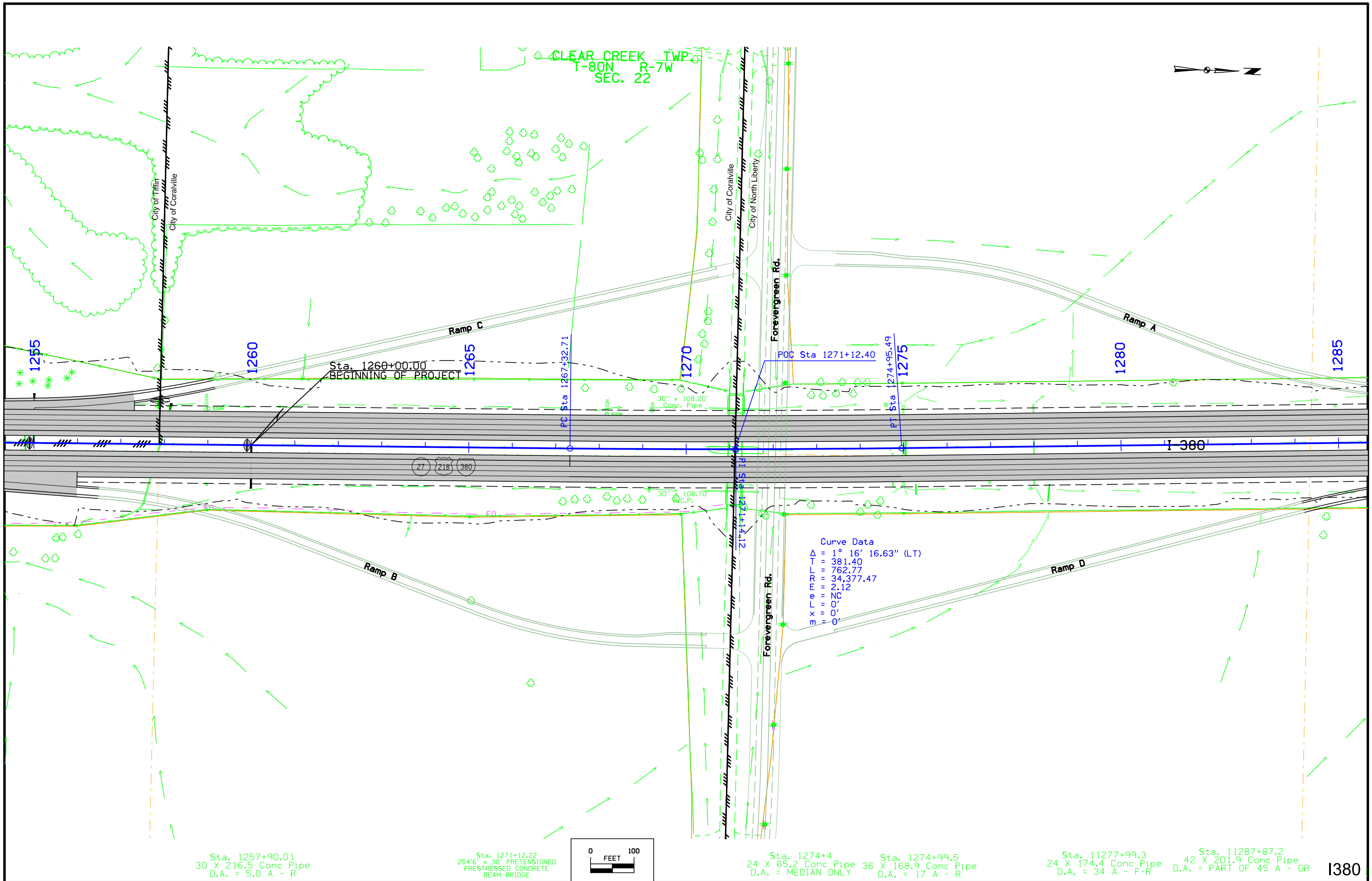
LINEWORK	Design Color No.	Description
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

Symbol	Description
	Reference Point
	Station
	Survey Line
	Section Corner
	Ground Line Intercept
	Saw Cut
	Guardrail
	Trench Drain
	High Tension Cable Guardrail
	Sheet Pile
	Pavement Removal
	Clearing & Grubbing Area

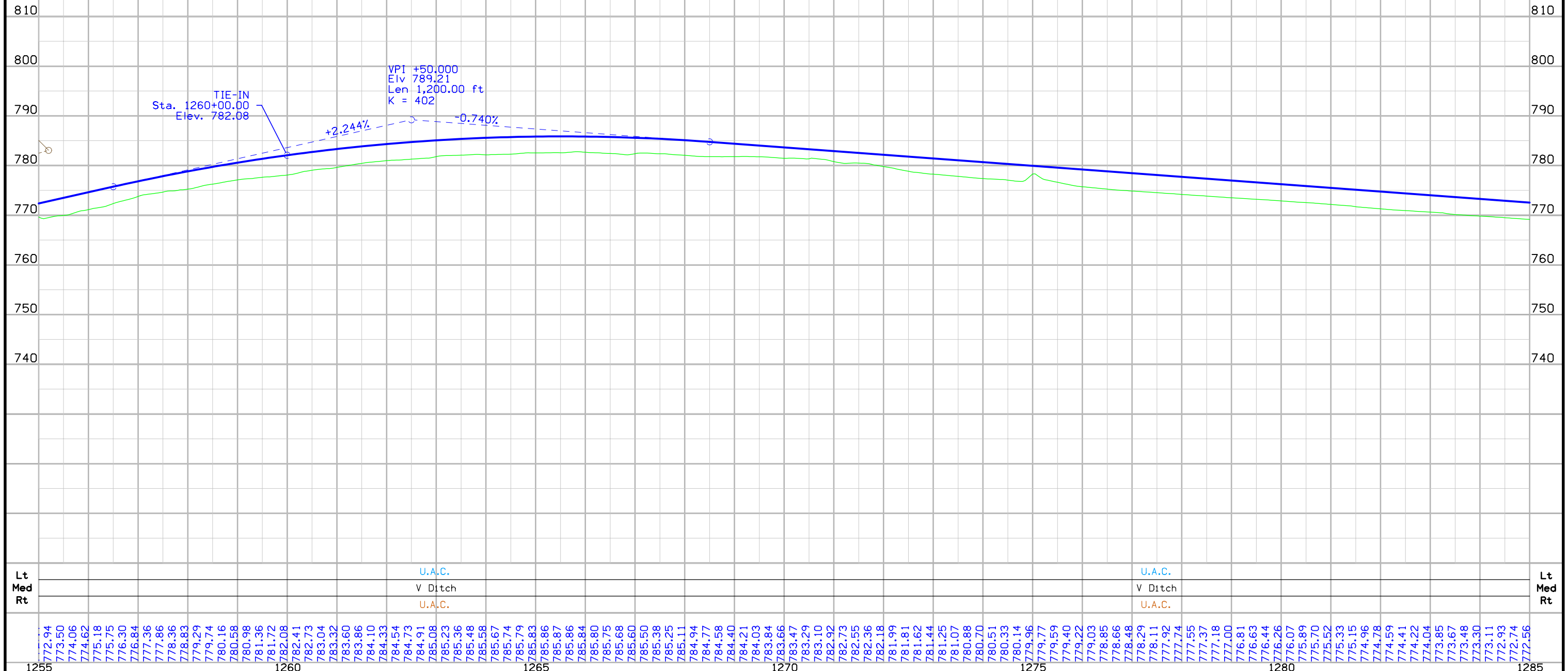
Symbol	Description
	Proposed Right-of-Way
	Existing Right of Way
	Existing and Proposed Right-of-Way
	Easement and Existing Right-of-Way
	Easement (Temporary)
	Easement
	Access Control
	Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)



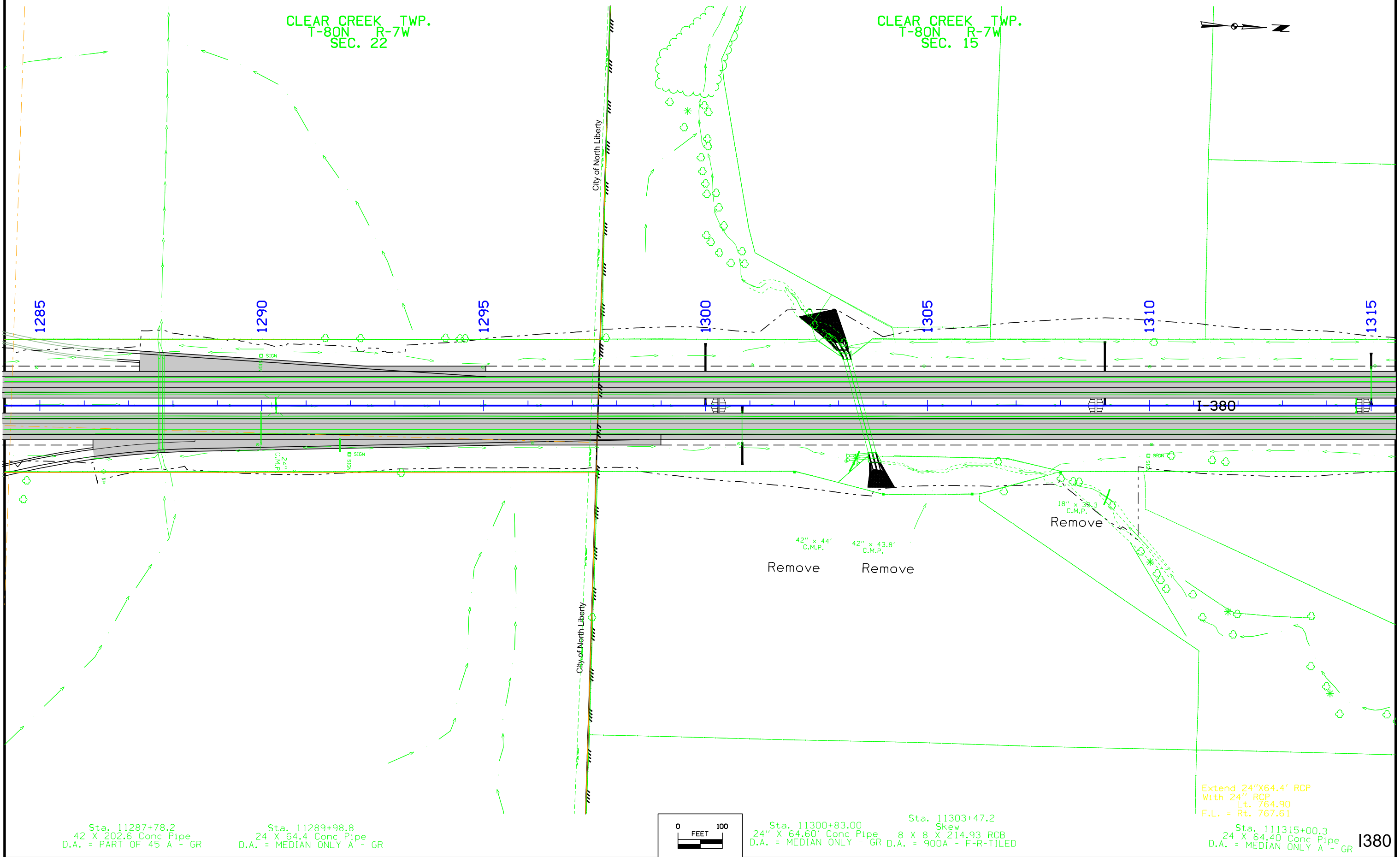
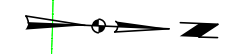
No Bench Lt.
No Bench Rt.
Bench Grade



1255	1260	1265	1270	1275	1280	1285
------	------	------	------	------	------	------

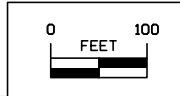
CLEAR CREEK TWP.
T-80N R-7W
SEC. 22

CLEAR CREEK TWP.
T-80N R-7W
SEC. 15



Sta. 11287+78.2
42" X 202.6' Conc Pipe
D.A. = PART OF 45' A - GR

Sta. 11289+98.8
24" X 64.4' Conc Pipe
D.A. = MEDIAN ONLY A - GR



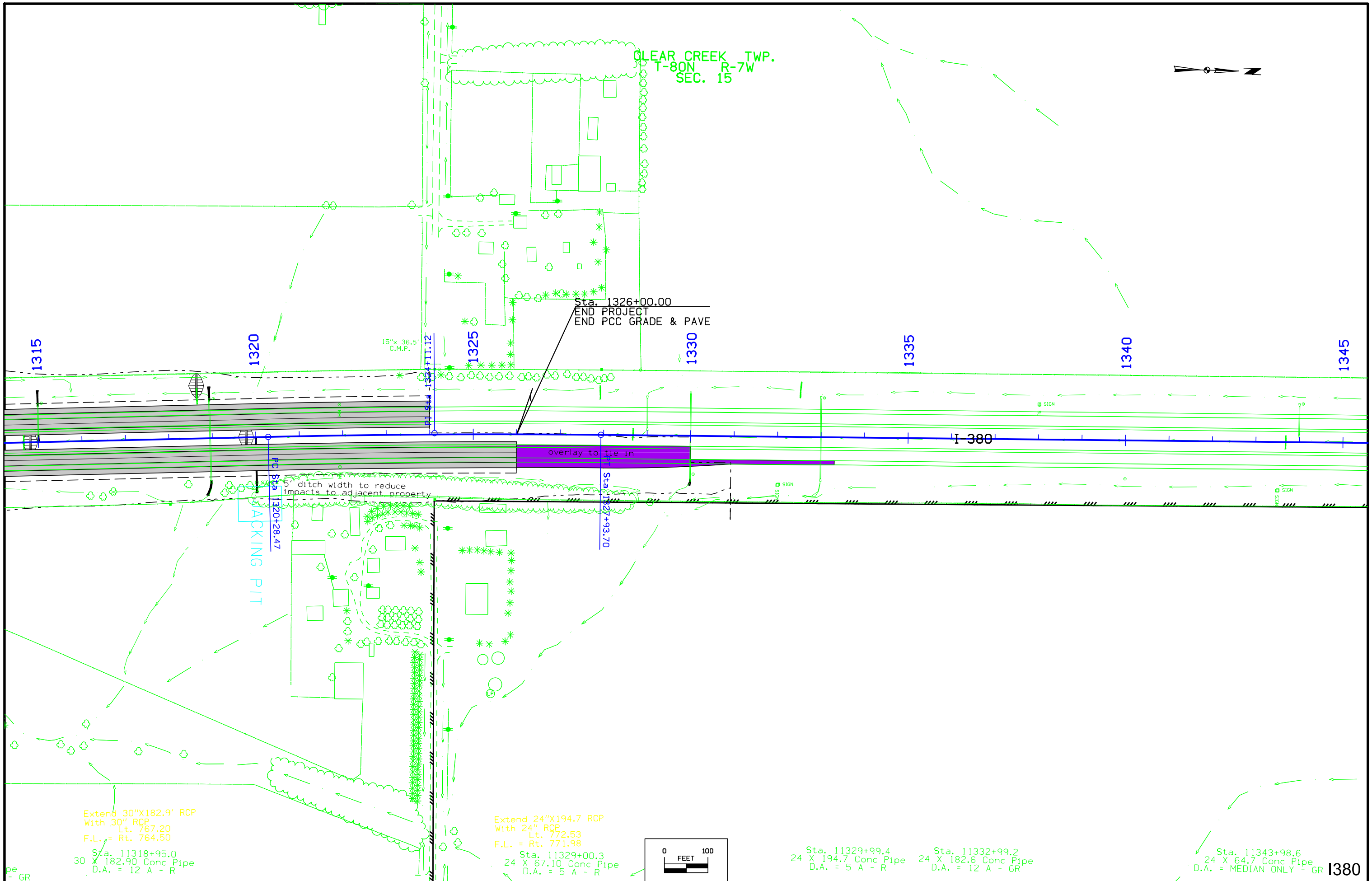
Sta. 11300+83.00
24" X 64.60' Conc Pipe
D.A. = MEDIAN ONLY - GR

Sta. 11303+47.2
Skew
8 X 8 X 214.93 RCB
D.A. = 900A - F-R-TILED

Extend 24"X64.4' RCP
With 24" RCP
Lt. 764.90
F.L. = Rt. 767.61

Sta. 111315+00.3
24" X 64.40' Conc Pipe
D.A. = MEDIAN ONLY A - GR

1380



CLEAR CREEK TWP.
T-80N R-7W
SEC. 15



Sta. 1326+00.00
END PROJECT
END PCC GRADE & PAVE

15" x 36.5'
C.M.P.

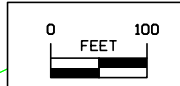
overlay to tie in

BACKING PIT

5' ditch width to reduce
impacts to adjacent property

Extend 30" X 182.9' RCP
With 30" RCP
Lt. 767.20
F.L. = Rt. 764.50
Sta. 11318+95.0
30 X 182.90 Conc Pipe
D.A. = 12 A - R

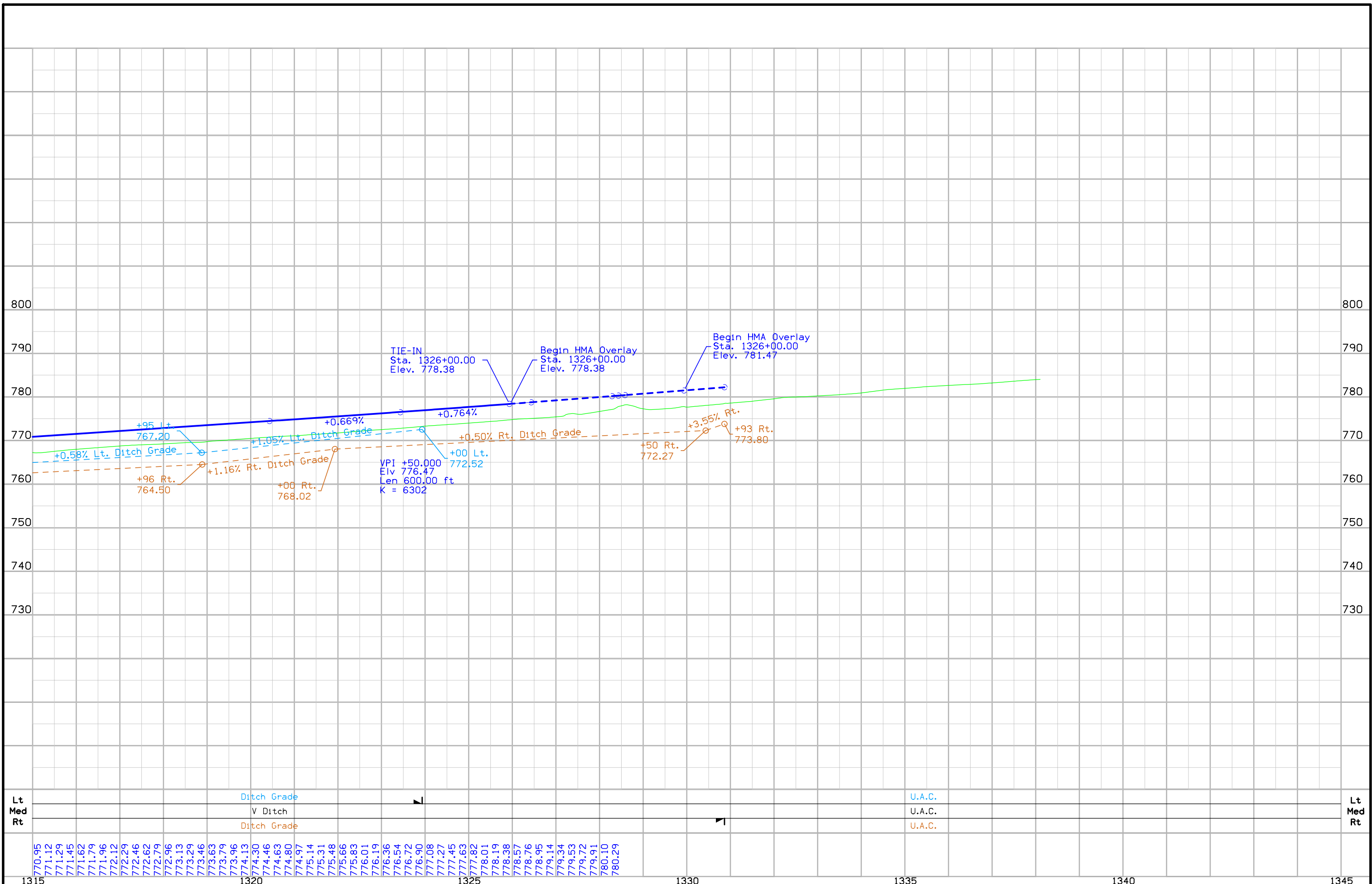
Extend 24" X 194.7 RCP
With 24" RCP
Lt. 772.53
F.L. = Rt. 771.98
Sta. 11329+00.3
24 X 67.10 Conc Pipe
D.A. = 5 A - R



Sta. 11329+99.4
24 X 194.7 Conc Pipe
D.A. = 5 A - R

Sta. 11332+99.2
24 X 182.6 Conc Pipe
D.A. = 12 A - GR

Sta. 11343+98.6
24 X 64.7 Conc Pipe
D.A. = MEDIAN ONLY - GR



1315	1320	1325	1330	1335	1340	1345
FILE NO.	ENGLISH	DESIGN TEAM	JOHNSON COUNTY	PROJECT NUMBER	SHEET NUMBER	
		Holst \ Thede		IM-NHS-380-6(326)2--03-52	E.6	

General Information

The GPS Network along this project was collected by IDOT Preliminary Survey Crews. Information about that network can be found in the 0411gspoints.doc file included with this survey in NAD83(1996) Project Coordinates.

This survey completes the Design DTM event of the "Can Do Process." Twelve section corners were found and included in this survey. None of the section corners coded as SCR in this survey have been certified by District 6 office. This survey was measured in English Units.

The mainline alignment of this survey is a retrace of the as-built plans # F-518-4(12)--20-52 1986 AB plans (centerline of median).

This survey intersects a 2000 Preliminary Survey along I-80. The 2000 survey data used Sap 0321. A revised GPS network was observed in 2002 for this project that includes all 2000 network control with approximately fourteen additional points added along the I-380 corridor north and south of I-80. The project control for this project is identical to the 2000 network control survey. Station equations to all as-built PI points are in the Horizontal datum information included below.

Vertical Datum

This survey is relative to NAVD88 vertical datum. Three wire bench level loops were run throughout this project. All bench loops originated and closed on one project benchmark #566 a 3rd order USGS mark called 26FDR 1964 682. Note the vertical datum difference between NGVD 88 and NAVD 29 is 0.10 feet in this area. The 29 datum is 0.10 higher than 88.

Vertical equations to the project datum Bench Marks and other benches along this survey are as follows:

BM # 566	This survey	EL=682.046
= BM # 566	Johnson County 2000 survey	EL=682.046
= USGS BM # 26	26FDR 1964 682	EL=682.046
BM # 625	This survey	EL=685.519
= BM # 14	1986 AB plan F-518-4(26)--20-52	EL=685.56
= BM # 1	Paving plan I-IG-380-6(19)243--04-52	EL=685.56
BM # 517	This survey	EL=737.314
= BM # 3	Paving plan I-IG-380-6(19)243--04-52	EL=737.37
BM # 520	This survey	EL=699.144
= BM # 19	Paving plan I-IG-380-6(19)243--04-52	EL=699.26
BM # 536	This survey	EL=691.494
= BM # 22	Paving plan I-IG-380-6(19)243--04-52	EL=691.61
BM # 636	This survey	EL=691.493
= BM # 521	2000 Carlson survey	EL=691.493
= BM # 22	IMN-80-6(21)240--00-52 (88 Datum)	EL=691.493
= BM # 22	Paving plan I-IG-380-6(19)243--04-52 (29 Datum)	EL=691.61
= BM # 22	1986 AB Plan F-518-4(12)--20-52 (29 Datum)	EL=691.61
BM # 608	This survey	EL=804.915
= BM # 37	1986 AB Plan F-518-4(12)--20-52 (29 Datum)	EL=804.85
BM # 582	This survey	EL=758.068
= BM # 39	1986 AB Plan F-518-4(12)--20-52 (29 Datum)	EL=758.03
BM # 502	This survey	EL=738.113
= BM # 502	2000 Carlson survey	EL=738.113
= BM # 51A	IMN-80-6(21)240--00-52 (88 Datum)	EL=738.113
= BM # 51A	I-80-6(12)238 Grading Plan (29 Datum)	EL=738.36
BM # 512	This survey	EL=789.582
= BM # 512	2000 Carlson survey\	EL=789.582
= BM # 60A	IMN-80-6(21)240--00-52 (88 Datum)	EL=789.74
= BM # 500	I-80-6(12)238 Grading Plan (29 Datum)	EL=789.96
BM # 633	This survey	EL=684.211
= BM # 21A	F-289(6) 1970 AB PLAN (Datum unknown)	EL=703.62

BM # 634 This survey EL=682.904
 = BM # 21B F-289(6) 1970 AB PLAN (Datum unknown) EL=702.26

Horizontal Datum

The mainline horizontal alignment for this survey is a retrace of the I-380 plans. Stationing for I-380 was backed up and carried forward from TS Sta 11183+81.20 on the as built plans. Two sets of I-380 plans were used on this project are as follows:

I-380 F-518-4(12)--20-52 As-Built I-380 Plans from south of I-80 to just North of I-80 and I-IG-380-6(19)243-04-52 AS-Built I-380 Plans from just south of I-80 to 1.5 miles North of Co. Rd. F-28

Equations are as follows:

BOP POT Sta.11082+95.29 this survey =
 POT Sta. 1684+00.22 F-518-4(12)--20-52 As-Built Plans

CP Point 11097+51.08, 0.14 feet right this survey =
 = PC Sta. 1698+56.76 F-518-4(12)--20-52 As-Built Plans Back
 = PC Sta. 1698+60.00 F-518-4(12)--20-52 As-Built Plans Ahead

PI Sta. 11109+54.89 this survey =
 PI Sta. 1710+60.76 F-518-4(12)--20-52 As-Built Plans

PI Sta.11127+45.33 this survey =
 = POT Sta. 1127+45.33 IMN-80-6(21)240-0E-52 2000 Preliminary Survey
 = POT Sta. 1728+54.9 F-518-4(12)--20-52 As-Built Plans Back
 = POT Sta. 1127+44.85 F-518-4(12)--20-52 As-Built Plans Ahead

POT Sta.11163+54.20 This Survey I-380 Stationing (Not Set in Field)
 = POT Sta. 644+59.06 This Survey I-80 Stationing

= POT Sta. 644+50.24 IM-80-6(167)240-13-52 Feb 1996 Grading Plan I-80 Stationing
 = POT Sta. 638+56.24 F-518-4(12)--20-52 As-Built Plans I-80 Stationing
 = POT Sta. 638+56.24 I-IG-380-6(19)243-04-52 As-Built Plans I-80 Stationing
 = POT Sta. 1163+53.95 F-518-4(12)--20-52 As-Built Plans I-380 Stationing
 = POT Sta. 1163+53.95 I-IG-380-6(19)243-04-52 As-Built Plans I-380 Stationing
 = POT Sta. 644+59.06 IMN-80-6(21)240-0E-52 2000 Preliminary Survey I-80 Stationing

POT Sta. 11183+81.20 This survey
 = TS Sta. 1183+81.20 F-518-4(12)--20-52 As-Built Plans
 = TS Sta. 1183+81.20 I-IG-380-6(19)243-04-52 As-Built Plans
 = TS Sta. 1183+81.20 IMN-80-6(21)240-0E-52 2000 Preliminary Survey

PI Sta. 11191+13.01 this survey =
 PI Sta. 1191+12.08 I-IG-380-6(19)243-04-52 As-Built Plans

PI Sta. 11271+13.95 this survey =
 PI Sta. 1271+13.52 I-IG-380-6(19)243-04-52 As-Built Plans

PI Sta. 11324+10.95 this survey =
 PI Sta. 1324+11.21 I-IG-380-6(19)243-04-52 As-Built Plans

POT Sta. 11404+97.20 this survey =
 PC Sta. 1404+96.91 I-IG-380-6(19)243-04-52 As-Built Plans

BENCHMARKS		ELEVATION	
-----		-----	
No. 624	Sta.11111+94.255 79.87 Lt.	2-1000 NAILS IN WD.SI.POS-----	714.060
No. 625	Sta.11118+31.923 151.22 Lt.	IHC BM INLET HDWL. TRIPLE 10 X 12 RCB BM#625 ELEV.= 685.519(E) THIS SURVEY =BM# 1 ELEV.= 685.56(E) F-518-4(12)--20-52 1986 AB PLAN-----	685.519
No. 626	Sta.11128+02.043 110.86 Rt.	CUT"X"NW.SIDE W.CONC.SIGN BASE-----	730.221
No. 516	Sta.11138+40.798 85.63 Rt.	CUT-X-CL-S-EDGE-EAST-CONC BASE OVERHEAD SIGN-----	741.143

No. 517	Sta.11149+45.044 108.49 Rt.	FD\X-NW-BOLT-L IGH-T-POLE = BM 3 ELEV. = 737.37 PAVING PLANS PROJECT NO. I-IG-380-6(19)243-04-52-----	737.314
No. 518	Sta.11161+33.669 75.84 Rt.	FD\IHC-BM-SE-WING-N-BOUND I-380 BRIDGE OVER I-80-----	746.360
No. 515	Sta.11163+24.440 152.20 Lt.	CUT-X-S-SIDE-OF-THE-SOUTH CONC BASE OVERHEAD SIGN-----	717.715
No. 519	Sta.11165+48.102 77.23 Lt.	FD\IHC-BM-NW-WING-S-BOUND I-380 BRIDGE OVER I-80-----	737.910
No. 520	Sta.11176+43.987 109.01 Lt.	FD\X-E-BOLT-L IGH-T-POLE BASE = BM 19 ELEV = 699.26 PAVING PLANS PROJECT NO. I-IG-380-6(19)243-04-52 NO.-----	699.144
No. 567	Sta.11187+84.421 65.27 Rt.	FD\IHC BM SE WING N.BOUND I-380 BRIDGE OVER CLEAR CREEK-----	690.972
No. 636	Sta.11188+16.120 22.87 Rt.	FD\IHC-BM-SW-WING-N-BOUND I-380 BRIDGE OVER CLEAR CREEK = BM 22 ELEV. = 691.61 PAVING PLANS PROJECT NO. I-IG-380-6(19)243--04-52-----	691.494
No. 521	Sta.11188+16.200 22.77 Rt.	FD\IHC SW.WING NB.BRIDGE I-380 OVER CLEAR CREEK BM#521 ELEV.= 691.493(E) THIS SURVEY =BM#521 ELEV.= 691.493(E) IMN-80-6(21)240--00-52 2000 W.CARLSON SURVEY =BM#22 ELEV.= 691.61(E) F-518-4(12)--20-52 1986 AB PLAN-----	691.493
No. 568	Sta.11188+39.041 64.91 Lt.	FD\IHC BM SW WING S.BOUND I-380 BRIDGE OVER CLEAR CREEK-----	695.024
No. 569	Sta.11189+63.986 64.82 Rt.	FD.DOT BUTTON NE.WING BR.-----	694.617
No. 570	Sta.11198+34.501 65.02 Rt.	FD.DOT BUTTON SE.WING BR.-----	714.922
No. 632	Sta.11199+30.780 142.78 Lt.	CUT"X"N.SIDE 48"CONC.P.PO -LE BASE S.RR.TRACKS JUST W. 380 OVERPASS-----	680.741
No. 572	Sta.11200+25.396 23.34 Lt.	CUT"X"NE.WING SB.BRIDGE-----	716.012
No. 571	Sta.11200+34.418 65.35 Lt.	CUT"X"NW.WING SB.BRIDGE-----	715.783
No. 573	Sta.11204+64.485 22.95 Lt.	CUT"X" SE.WING SB.BR.HWY6-----	713.595
No. 574	Sta.11204+75.377 65.13 Lt.	FD.DOT BUTTON SW.WING BR.-----	713.436
No. 575	Sta.11206+88.793 64.63 Rt.	FD.DOT BUTTON NE.WING BR.-----	712.079
No. 627	Sta.11206+90.470 216.20 Lt.	SET RR.SPK.S.SIDE P.POLE N.SIDE HWY 6,JUST W.OF 380 OVERPASS-----	685.435
No. 576	Sta.11218+97.892 85.21 Rt.	CUT"X"INLET 24" RCP E.SID-----	732.351
No. 577	Sta.11235+00.075 16.06 Lt.	CUT"X"E.SIDE OVERHEAD SGN-----	752.765
No. 578	Sta.11248+47.438 194.26 Rt.	SET 60D NAIL WD.FENCE POS-----	745.111
No. 579	Sta.11261+23.666 152.27 Rt.	SET 60D NAIL WD.FENCE POS-----	783.326

DETAILS OF REFERENCE INFORMATION

All References Plumb Distances
 (unless otherwise noted)

No. 608	Sta. 11270+93.677	134.86 Rt.	FD\IHC SE.COR.WHLGD.BRIDGE BM#608 ELEV.= 804.915(E) THIS SURVEY -BM#37 ELEV.= 804.85(E) F-518-4(12)-20-52 1986 AB PLAN----- 804.915	No. 522	Sta. 659+46.078	96.58 Lt.	FD\IHC-BM-SW-WING-RAMP BRG FROM I-80 W.BOUND TO I-380 N.BOUND----- 683.510	No. 628	Sta.51220+41.072	38.97 Rt.	FD.DOT BUTTON OUTLET HDWL 12.0 X 6.0 RCB,S.SIDE RD.----- 692.107
No. 607	Sta.11271+31.826	130.49 Lt.	CUT"X"NW.COR.WHLGD.BRIDGE----- 804.763	No. 523	Sta. 661+62.644	113.94 Rt.	FD\X-CONC-WHEELGUARD-SE END OF RAMP BRIDGE FROM I-380 N.BOUND TO I-80 EAST BOUND----- 678.334	No. 601	Sta.61258+19.677	73.21 Lt.	SET RR.SPK.SW.SIDE P.POLE----- 797.156
No. 580	Sta.11272+23.924	148.34 Rt.	SET RR.SPK.W.SIDE FE.POST----- 779.049	No. 524	Sta. 678+73.492	137.92 Rt.	SET\RR-SPK-N-SIDE WOOD FENCE POST----- 668.615	No. 607	Sta.61269+81.203	16.29 Lt.	CUT"X"NW.COR.WHLGD.BRIDGE----- 804.763
No. 581	Sta.11287+68.335	98.68 Rt.	CUT"X" INLET 42"RCP S.10F2----- 764.010	No. 622	Sta.20572+00.606	33.65 Rt.	SET RR.SPK.SW.SIDE P.POLE----- 764.688	No. 608	Sta.61272+47.430	15.13 Rt.	FD\IHC SE.COR.WHLGD.BRIDGE BM#608 ELEV.= 804.915(E) THIS SURVEY -BM#37 ELEV.= 804.85(E) F-518-4(12)-20-52 1986 AB PLAN----- 804.915
No. 582	Sta.11303+75.126	105.25 Rt.	FD\IHC INLET HDWL.TWIN8X8 BM#582 ELEV.= 758.068(E) THIS SURVEY -BM#39 ELEV.= 758.03(E) F-518-4(12)-20-52 1986 AB PLAN----- 758.068	No. 621	Sta.20578+73.257	31.20 Rt.	SET RR.SPK.W.SIDE P.POLE----- 763.973	No. 580	Sta.61272+57.419	115.97 Lt.	SET RR.SPK.W.SIDE FE.POST----- 779.049
No. 583	Sta.11319+99.239	100.54 Rt.	CUT"X"NW.W.CONC.SIGN BASE----- 767.172	No. 620	Sta.20591+97.150	53.93 Rt.	SET RR.SPK.SW.SIDE FE.PST----- 740.677	No. 609	Sta.71285+24.573	36.52 Lt.	SET RR.SPK.W.SIDE P.POLE----- 782.709
No. 606	Sta.11324+44.101	150.98 Lt.	SET RR.SPK.SE.SIDE P.POLE----- 780.252	No. 619	Sta.20602+54.671	63.25 Lt.	SET RR.SPK.N.SIDE P.POLE----- 786.486	No. 610	Sta.71300+33.158	43.78 Rt.	SET RR.SPK.E.SIDE P.POLE----- 777.704
No. 584	Sta.11332+00.705	107.52 Rt.	CUT"X"E.SIDEW.CONC.SGN.BA----- 775.672	No. 513	Sta.20608+06.706	35.16 Lt.	SET\RR-SPK-N-SIDE-P-POLE----- 799.211	No. 611	Sta.71313+91.962	33.55 Lt.	SET RR.SPK.W.SIDE P.POLE----- 794.997
No. 585	Sta.11343+50.252	109.94 Rt.	CUT"X"NE.SIDEW.CONC.SGN.B----- 788.481	No. 510	Sta.20622+90.521	33.39 Lt.	FD\RR-SPK-E-SIDE-P-POLE----- 759.074	No. 612	Sta.71324+43.867	33.77 Lt.	SET RR.SPK.E.SIDE P.POLE----- 777.635
No. 586	Sta.11356+00.495	116.53 Rt.	CUT"X"W.SIDEW.CONC.SGN.BA----- 795.758	No. 511	Sta.30620+64.760	67.37 Lt.	FD\X-SOUTH-CONC-BASE-OF OVERHEAD SIGN= BM # 501 PROJECT NUMBER IM-80-6(171)240--13-52 ELEVATION=768.539----- 768.176	No. 605	Sta.81312+32.522	26.41 Lt.	SET RR.SPK.S.SIDE P.POLE----- 778.045
No. 587	Sta.11375+75.327	149.09 Rt.	SET RR.SPK.W.SIDE P.POLE----- 798.873	No. 512	Sta.30622+33.605	14.88 Lt.	FD\IHC-BM-NW-WING-BRIDGE = BM 60A ELEV = 789.74 GRADING PLANS PROJECT NO. I-80-6(12)238-BM # 500 PROJECT NUMBER IM-80-6(171)240--13-52 ELEVATION=789.96----- 789.582	No. 606	Sta.81322+59.298	30.49 Lt.	SET RR.SPK.SE.SIDE P.POLE----- 780.252
No. 592	Sta.11377+19.336	135.71 Lt.	CUT"X"SW.WING CO.RD.F28 B----- 816.985	No. 617	Sta.30634+79.709	15.80 Rt.	SET RR.SPK.W.SIDE TEL.POL ON JASPER AVE.----- 778.994	No. 613	Sta.81339+01.184	31.48 Lt.	SET RR.SPK.S.SIDE P.POLE----- 764.142
No. 593	Sta.11377+53.473	133.56 Rt.	FD.DOT BUTTON NE.WING BR.----- 817.034	No. 616	Sta.30639+48.147	43.04 Rt.	SET RR.SPK.W.SIDE P.POLE ON JASPER AVE.----- 758.301	No. 590	Sta.91359+26.297	34.25 Rt.	ARROWHEAD ON SW.SIDE FHD----- 778.696
No. 588	Sta.11389+34.201	160.47 Rt.	SET RR.SPK.W.SIDE FE.POST----- 789.830	No. 615	Sta.30653+45.242	17.13 Rt.	FD.SO.SE.COR.HNDRL.BRIDGE OVER CLEAR CREEK,JASPER A----- 686.896	No. 591	Sta.91365+45.283	23.04 Rt.	ARROWHEAD ON NE.SIDE FHD----- 792.288
No. 589	Sta.11403+67.224	180.83 Rt.	SET RR.SPK.NW.SIDE P.POLE----- 762.153	No. 614	Sta.30655+23.641	16.15 Lt.	CUT"X"NW.COR.HNDRL.BRG.OV ER CLEAR CREEK ON JASPER AVE. JUST S.RR.TRACKS----- 687.721	No. 592	Sta.91376+00.766	16.91 Rt.	CUT"X"SW.WING CO.RD.F28 B----- 816.985
No. 500	Sta. 524+24.824	275.01 Rt.	CUT-X-NW-CORNER-CONC-SLAB OF THE EAST MOST HISTORICAL MONUMENT----- 725.532	No. 633	Sta.30664+43.666	29.41 Rt.	FD\IHC INLET HDWL 4X2 RCB BM# 633 ELEV.= 684.221(E) THIS SURVEY -BM#21A ELEV.=703.62 F-289(6) 1970 AB PLAN----- 684.221	No. 593	Sta.91378+70.104	16.70 Lt.	FD.DOT BUTTON NE.WING BR.----- 817.034
No. 501	Sta. 541+26.761	95.72 Rt.	FD\IHC-BM-ON-INLET-HDWL 6.0 X 6.0 RCB----- 716.211	No. 596	Sta.30677+73.777	27.86 Lt.	SET RR.SPK.E.SIDE P.POLE----- 717.410	No. 587	Sta.91378+85.282	161.48 Rt.	SET RR.SPK.W.SIDE P.POLE----- 798.873
No. 502	Sta. 557+55.028	100.54 Lt.	FD\IHC-BM-ON-INLET-HDWL 4.0 X 4.0 RCB = BM 51A ELEV = 738.36 GRADING PLANS PROJECT NO. I-80-6(12)238----- 738.113	No. 597	Sta.30686+97.621	16.19 Rt.	FD.BOLT INLET HDWL 8X6RCB----- 709.220	No. 594	Sta.91393+35.495	28.53 Rt.	ARROWHEAD ON W.SIDE FHD----- 788.677
No. 503	Sta. 567+54.008	112.27 Rt.	FD\IHC-BM-SE-WING-BRIDGE = BM 51C ELEV = 768.83 GRADING PLANS PROJECT NO. I-80-6(12)238----- 768.519	No. 598	Sta.30698+38.006	33.23 Lt.	SET RR.SPK.W.SIDE P.POLE----- 733.159	No. 595	Sta.91400+06.045	28.37 Rt.	ARROWHEAD ON W.SIDE FHD----- 785.191
No. 505	Sta. 572+43.123	232.39 Lt.	FD\IHC-BM-ON-INLET-HDWL 5.0 X 5.0 RCB = BM 56B ELEV = 736.39 GRADING PLANS PROJECT NO. I-80-6(12)238----- 736.150	No. 599	Sta.30711+77.883	32.92 Lt.	SET RR.SPK.W.SIDE P.POLE----- 780.071	MISCELLANEOUS LOCATIONS			
No. 506	Sta. 576+04.565	174.78 Lt.	FD\IHC-BM-ON-OUTLET-HDWL 42" CIR RCB W/ FLUME = BM 56A ELEV = 736.54 GRADING PLANS PROJECT NO. I-80-6(12)238----- 736.266	No. 600	Sta.30719+26.238	33.12 Lt.	SET RR.SPK.W.SIDE P.POLE----- 808.144	No. 43	*****	GPS# 043-GPS ZC= 751.45 ADJUSTED LOCAL PROJECT PLANE COORDINATES ELEVATION IS ESTIMATED GPS DERIVED ORTHO HEIGHT----- 751.478	
No. 507	Sta. 582+71.852	157.29 Rt.	SET\RR-SPK-N-SIDE-FE-POST----- 741.725	No. 601	Sta.30728+10.453	42.91 Rt.	SET RR.SPK.SW.SIDE P.POLE----- 797.156	No. 44	*****	GPS# 044 -GPS ZC= 783.95 ADJUSTED LOCAL PROJECT PLANE COORDINATES ELEVATION IS ESTIMATED GPS DERIVED ORTHO HEIGHT----- 783.937	
No. 508	Sta. 593+92.172	141.09 Lt.	SET\RR-SPK-S-SIDE-P-POLE----- 741.525	No. 602	Sta.30740+44.218	32.72 Rt.	SET RR.SPK.W.SIDE GATEPOS----- 760.080	No. 45	*****	GPS# 045 -GPS ZC= 767.37 ADJUSTED LOCAL PROJECT PLANE COORDINATES ELEVATION IS ESTIMATED GPS DERIVED ORTHO HEIGHT----- 767.378	
No. 509	Sta. 607+05.870	79.46 Rt.	FD\IHC-BM-ON-INLET-HDWL 5.0 X 5.0 RCB = BM 58A ELEV = 738.31 GRADING PLANS PROJECT NO. I-80-6(12)238----- 738.221	No. 603	Sta.30753+47.152	26.22 Rt.	SET RR.SPK.W.SIDE P.POLE----- 757.608	No. 46	*****	GPS# 046 -GPS ZC= 777.31 ADJUSTED LOCAL PROJECT PLANE COORDINATES ELEVATION IS ESTIMATED GPS DERIVED ORTHO HEIGHT----- 777.325	
No. 511	Sta. 620+62.574	65.33 Rt.	FD\X-SOUTH-CONC-BASE-OF OVERHEAD SIGN= BM # 501 PROJECT NUMBER IM-80-6(171)240--13-52 ELEVATION=768.539----- 768.176	No. 604	Sta.30766+58.868	30.99 Rt.	SET RR.SPK.W.SIDE P.POLE----- 768.523	No. 47	*****	GPS# 047 -GPS ZC= 798.04 ADJUSTED LOCAL PROJECT PLANE COORDINATES ELEVATION IS ESTIMATED GPS DERIVED ORTHO HEIGHT----- 798.026	
No. 512	Sta. 621+03.405	106.71 Lt.	FD\IHC-BM-NW-WING-BRIDGE = BM 60A ELEV = 789.74 GRADING PLANS PROJECT NO. I-80-6(12)238-BM # 500 PROJECT NUMBER IM-80-6(171)240--13-52 ELEVATION=789.96----- 789.582	No. 632	Sta.41197+93.824	27.47 Rt.	CUT"X"N.SIDE 48"CONC.P.PO -LE BASE S.RR.TRACKS JUST W. 380 OVERPASS----- 680.741	No. 51	*****	GPS# 051 -GPS ZC= 764.45 ADJUSTED LOCAL PROJECT PLANE COORDINATES ELEVATION IS ESTIMATED GPS DERIVED ORTHO HEIGHT----- 764.528	
No. 514	Sta. 628+04.839	138.29 Rt.	FD-X-NORTH-SIDE-CONC-BASE LIGHT POLE = BM # 502 PROJECT NUMBER IM-80-6(171)240--13-52 ELEVATION=759.83----- 759.429	No. 571	Sta.41198+53.244	87.28 Lt.	CUT"X"NW.WING SB.BRIDGE----- 715.783	No. 566	*****	FD USGS DISK OUTLET HDWL 4.0 X 2.0 RCB NAVD 88 EL=682.046----- 682.046	
No. 519	Sta. 643+13.570	149.65 Lt.	FD\IHC-BM-NW-WING-S-BOUND I-380 BRIDGE OVER I-80----- 737.910	No. 572	Sta.41198+95.539	85.52 Lt.	CUT"X"NE.WING SB.BRIDGE----- 716.012	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>DETAILS OF REFERENCE INFORMATION</p> <p>All References Plumb Distances</p> <p>(unless otherwise noted)</p> </div>			
No. 515	Sta. 643+29.799	85.69 Rt.	CUT-X-S-SIDE-OF-THE-SOUTH CONC BASE OVERHEAD SIGN----- 717.715	No. 570	Sta.41200+17.490	85.89 Rt.	FD.DOT BUTTON SE.WING BR.----- 714.922				
No. 518	Sta. 646+13.448	174.79 Rt.	FD\IHC-BM-SE-WING-N-BOUND I-380 BRIDGE OVER I-80----- 746.360	No. 631	Sta.41210+26.902	27.22 Rt.	CUT"X"N.SIDE 48"CONC.P.PO -LE BASE OVERHEAD POWER LINE,S.RR.TRACKS,JUST W. FS FEEDS BUILDING----- 684.629				
				No. 630	Sta.41219+67.035	28.89 Rt.	CUT"X"N.SIDE 48"CONC.P.PO -LE BASE S.RR.TRACKS E. END FS FEEDS FENCE----- 688.824				
				No. 633	Sta.51192+29.509	33.19 Lt.	FD\IHC INLET HDWL 4X2 RCB BM# 633 ELEV.= 684.221(E) THIS SURVEY -BM#21A ELEV.=703.62 F-289(6) 1970 AB PLAN----- 684.221				
				No. 634	Sta.51200+72.371	24.25 Lt.	FD\IHC INLET HDWL 4X2 RCB BM# 634 ELEV.= 682.904(E) THIS SURVEY -BM#21B ELEV.=702.26 F-289(6) 1970 AB PLAN----- 682.904				
				No. 627	Sta.51203+52.358	60.83 Lt.	SET RR.SPK.S.SIDE P.POLE N.SIDE HWY 6,JUST W.OF 380 OVERPASS----- 685.435				
				No. 574	Sta.51205+48.360	121.48 Rt.	FD.DOT BUTTON SW.WING BR.----- 713.436				
				No. 573	Sta.51205+96.470	120.17 Rt.	CUT"X" SE.WING SB.BR.HWY6----- 713.595				
				No. 575	Sta.51206+11.957	120.14 Lt.	FD.DOT BUTTON NE.WING BR.----- 712.079				

No. 48 ***** GPS# 048-GPS ZC= 786.78
ADJUSTED LOCAL PROJECT
PLANE COORDINATES
ELEVATION IS ESTIMATED
GPS DERIVED ORTHO HEIGHT----- 786.758

No. 49 ***** GPS# 049 -GPS ZC= 813.21
ADJUSTED LOCAL PROJECT
PLANE COORDINATES
ELEVATION IS ESTIMATED
GPS DERIVED ORTHO HEIGHT----- 813.212

No. 50 ***** GPS# 050-GPS ZC= 784.71
ADJUSTED LOCAL PROJECT
PLANE COORDINATES
ELEVATION IS ESTIMATED
GPS DERIVED ORTHO HEIGHT----- 784.725

No. 629 ***** SET RR,SPK,SW,SIDE L.POLE
IN ENT. TO FS FEEDS----- 702.775

No. 623 ***** FD,BOLT SW,COR,HDWL,TWIN
12 X 12 RCB----- 688.940

No. 38 ***** GPS# 038 -GPS ZC= 717.88
ADJUSTED LOCAL PROJECT
PLANE COORDINATES
ELEVATION IS ESTIMATED
GPS DERIVED ORTHO HEIGHT
GPS POINT G038----- 717.875

No. 39 ***** GPS POINT G039
GPS# 39 -GPS ZC= 733.36
ADJUSTED LOCAL PROJECT
PLANE COORDINATES
ELEVATION IS ESTIMATED
GPS DERIVED ORTHO HEIGHT----- 733.310

No. 635 ***** SET RR SPK N. SIDE P.POLE
AT ENT TO 911 # 3050
ON N. SIDE 355 ST. S.W.,----- 775.965

No. 504 ***** FD\IHC-BM-ON-INLET-HDWL
6.0 X 4.0 RCB
= BM 51B ELEV = 760.19
GRADING PLANS PROJECT
NO. 1-80-6(12)238----- 759.878

No. 11 ***** GPS-POINT-G011
FENO MONUMENT
ORTHO ELVATION =722.71----- 722.698

No. 13 ***** GPS-POINT-G013
ORTHO ELEVATION=709.82
FD\ REBAR----- 709.794

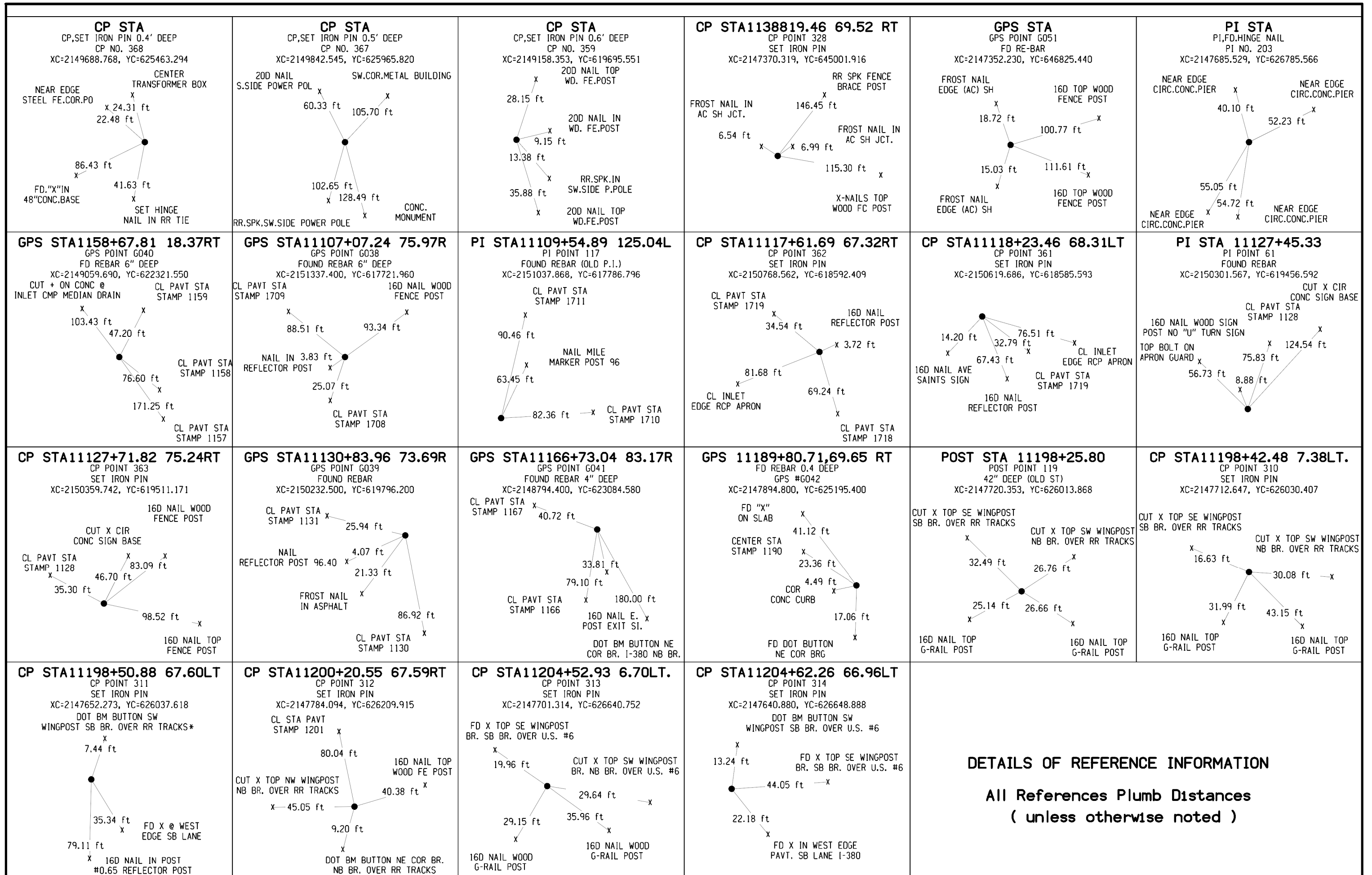
No. 525 ***** FD\IHC-BM-SW-WING-1-80
E.BOUND BR. OVER HWY 6----- 713.964

No. 1095 ***** TARGET-#-1095----- 679.243

No. 526 ***** FD\IHC-BM-ON-INLET-HDWL
8.0 X 8.0 RCB
= BM 115B ELEV. = 678.77
PCC PAVING PROJECT PLANS
NO. 1-1G-80-6(5)245----- 678.693

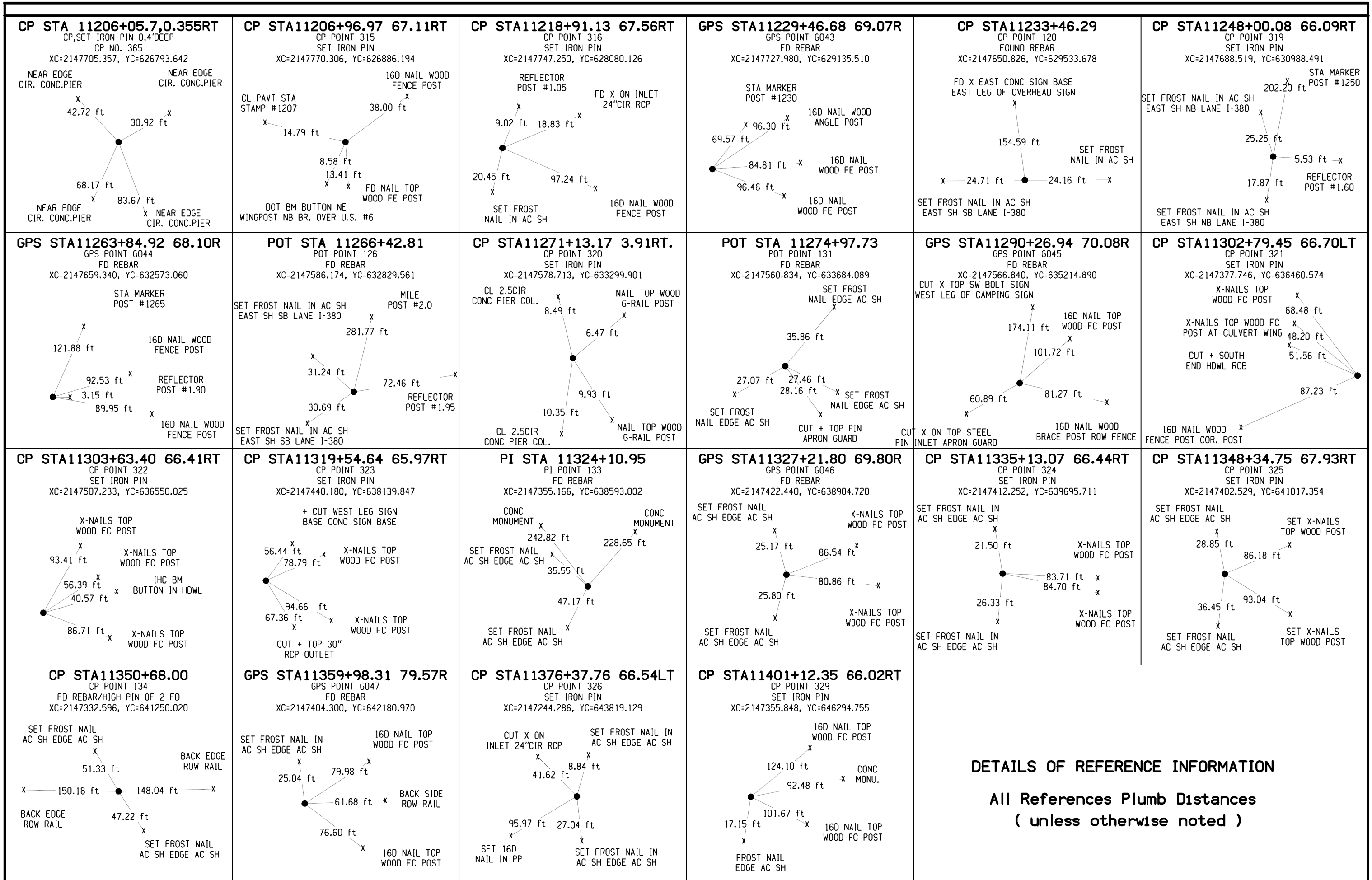
DETAILS OF REFERENCE INFORMATION

**All References Plumb Distances
(unless otherwise noted)**



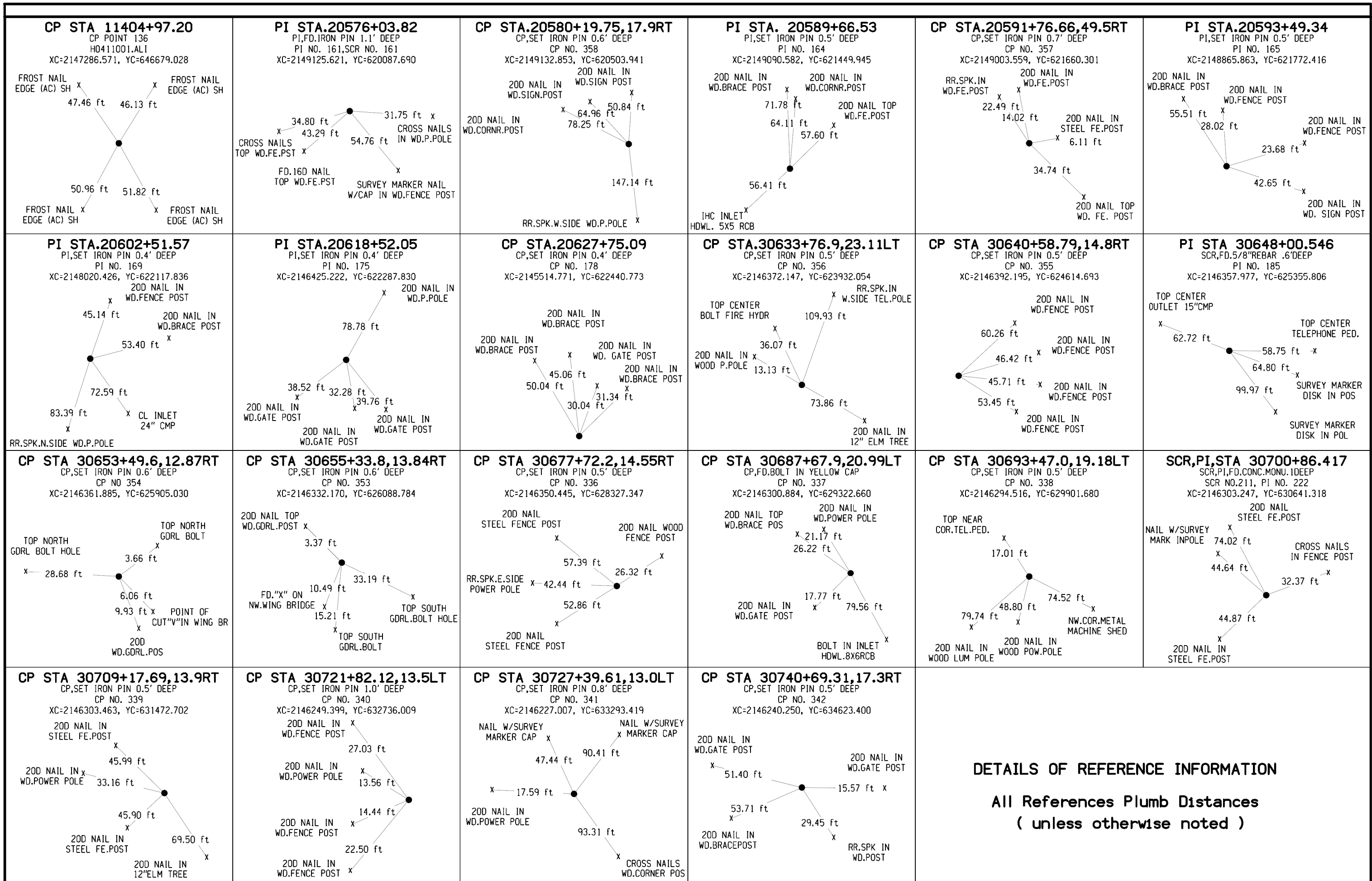
DETAILS OF REFERENCE INFORMATION

**All References Plumb Distances
(unless otherwise noted)**

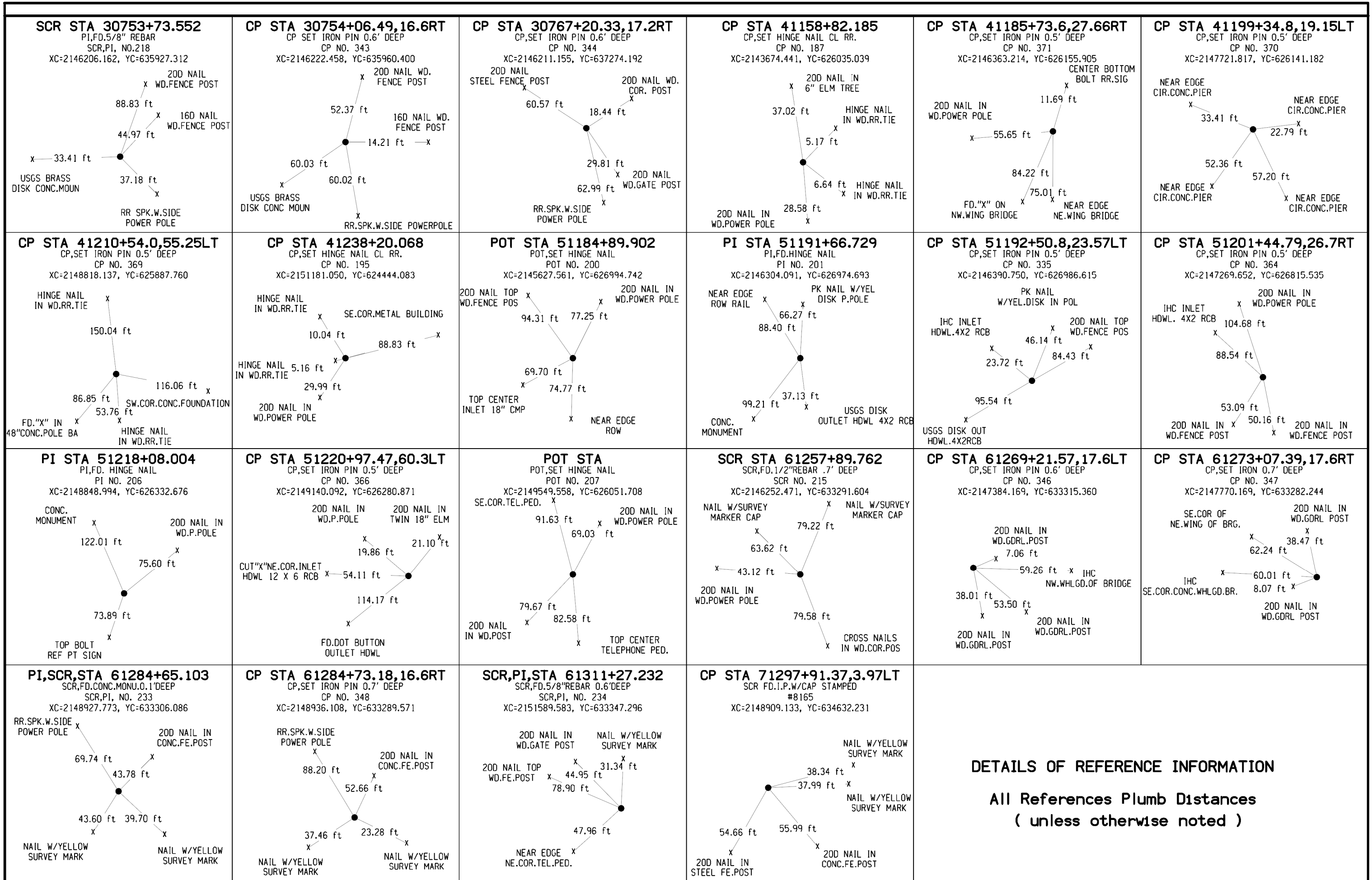


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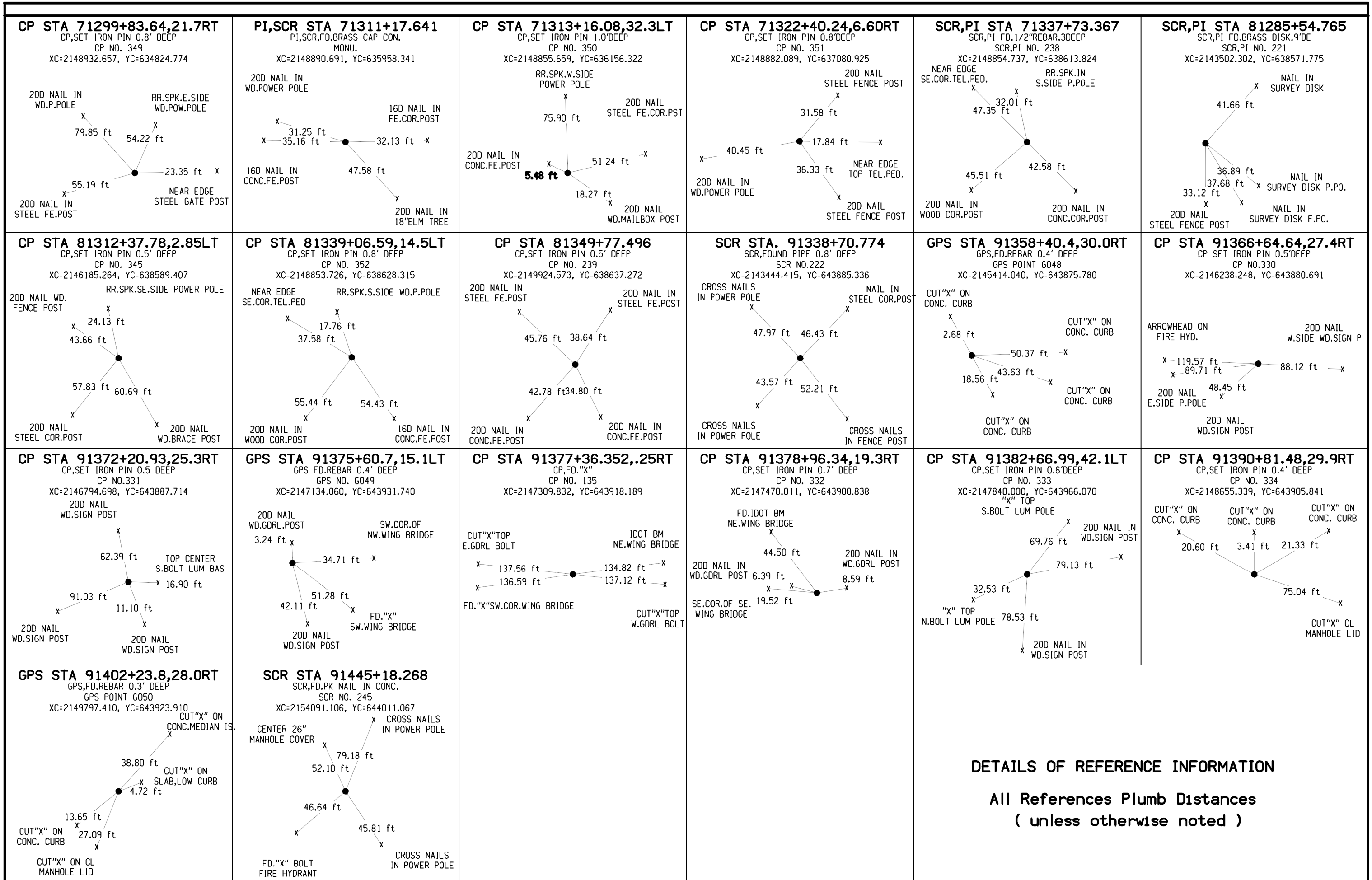
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(unless otherwise noted)**

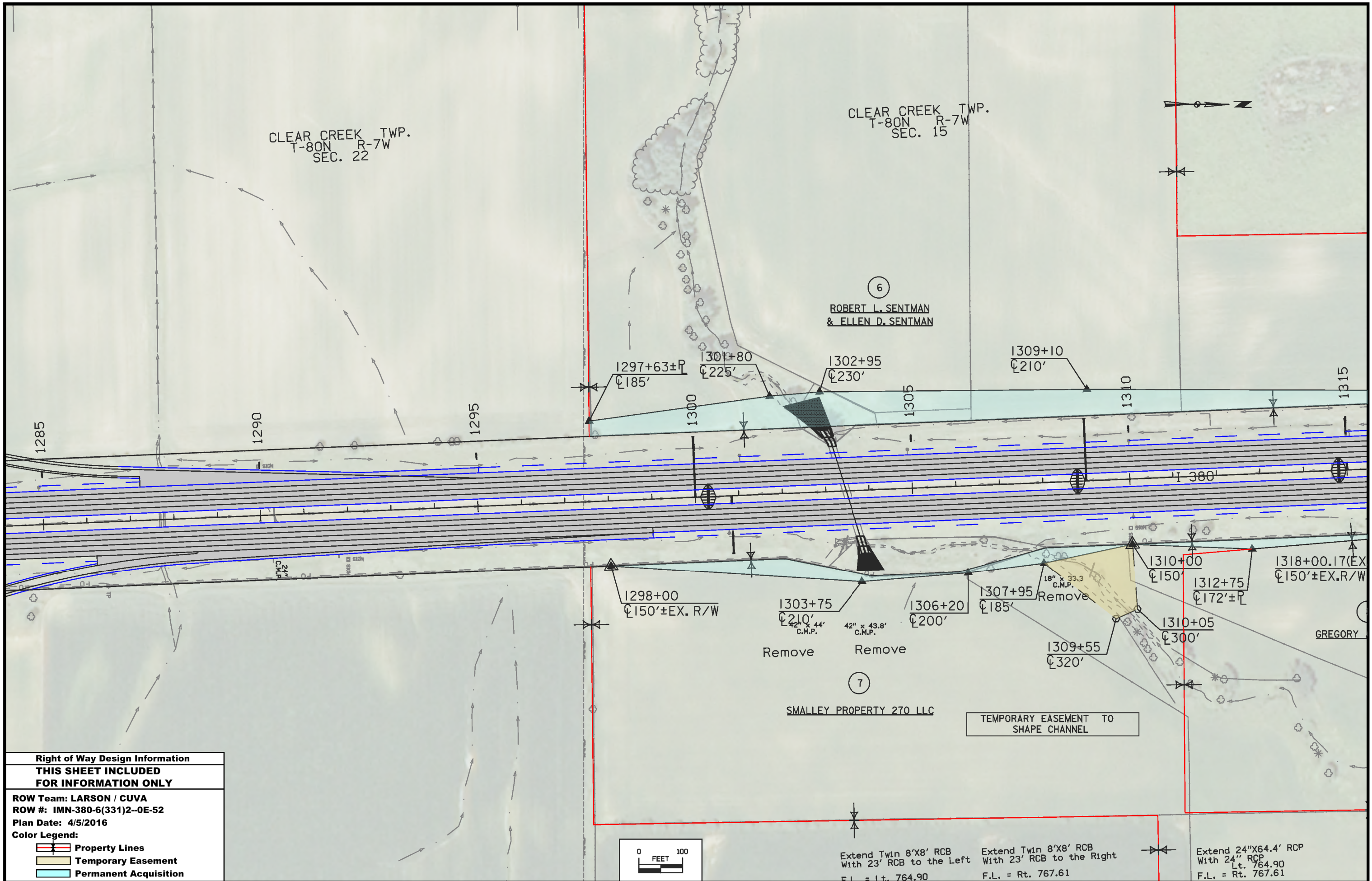


DETAILS OF REFERENCE INFORMATION
All References Plumb Distances
(unless otherwise noted)



DETAILS OF REFERENCE INFORMATION
All References Plumb Distances
(unless otherwise noted)



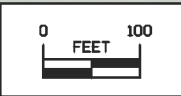


Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: LARSON / CUVA
ROW #: IMN-380-6(331)2--0E-52
Plan Date: 4/5/2016

Color Legend:

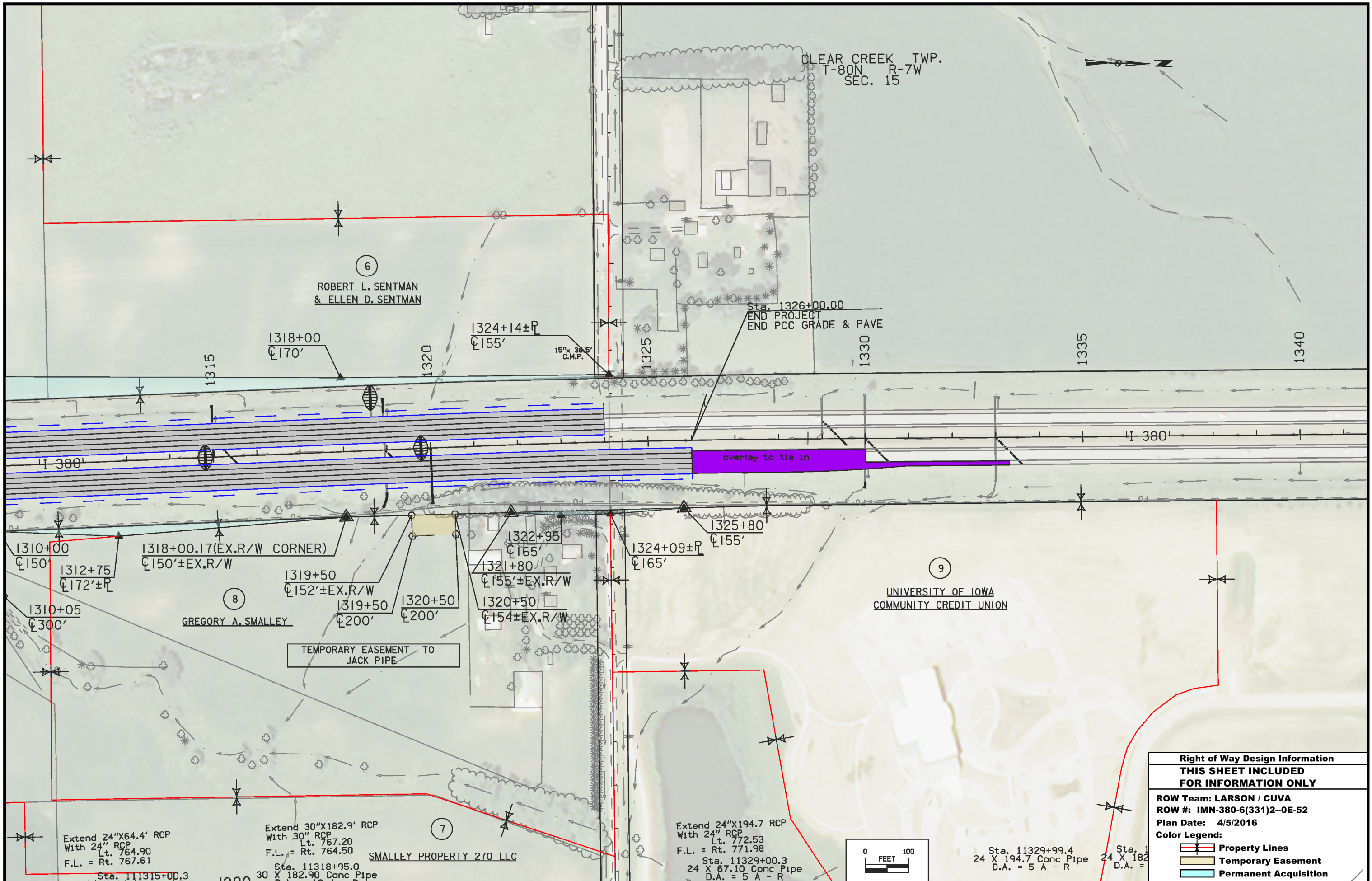
- Property Lines
- Temporary Easement
- Permanent Acquisition



Extend Twin 8"X8' RCB With 23' RCB to the Left
F.L. = Lt. 764.90

Extend Twin 8"X8' RCB With 23' RCB to the Right
F.L. = Rt. 767.61

Extend 24"X64.4' RCP With 24" RCP
Lt. 764.90
F.L. = Rt. 767.61



CLEAR CREEK TWP.
T-80N R-7W
SEC. 15

6
ROBERT L. SENTMAN
& ELLEN D. SENTMAN

8
GREGORY A. SMALLEY

9
UNIVERSITY OF IOWA
COMMUNITY CREDIT UNION

7
SMALLEY PROPERTY 270 LLC

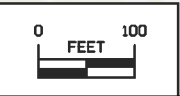
Extend 24"X64.4' RCP
With 24" RCP
Lt. 764.90
F.L. = Rt. 767.61
Sta. 111315+00.3

Extend 30"X182.9' RCP
With 30" RCP
Lt. 767.20
F.L. = Rt. 764.50
Sta. 11318+95.0
30 X 182.90 Conc Pipe

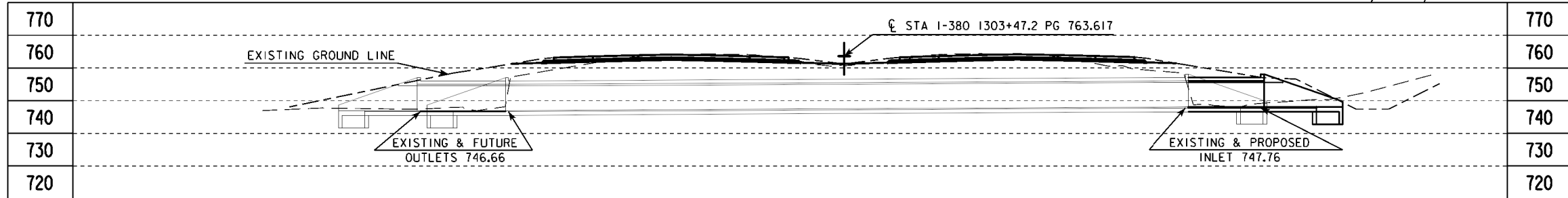
Extend 24"X194.7 RCP
With 24" RCP
Lt. 772.53
F.L. = Rt. 771.98
Sta. 11329+00.3
24 X 67.10 Conc Pipe
D.A. = 5 A - R

Sta. 11329+99.4
24 X 194.7 Conc Pipe
D.A. = 5 A - R

Sta. 11329+182.0
24 X 182.0 Conc Pipe
D.A. = 5 A - R



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: LARSON / CUVA	
ROW #: IMN-380-6(331)2--0E-52	
Plan Date: 4/5/2016	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



-0.740% +0.669%

VPI STA = 1300+50 VC = 1200'
VPI ELEV = 761.09

PROPOSED PROFILE GRADE I-380

LONGITUDINAL SECTION ALONG CULVERT

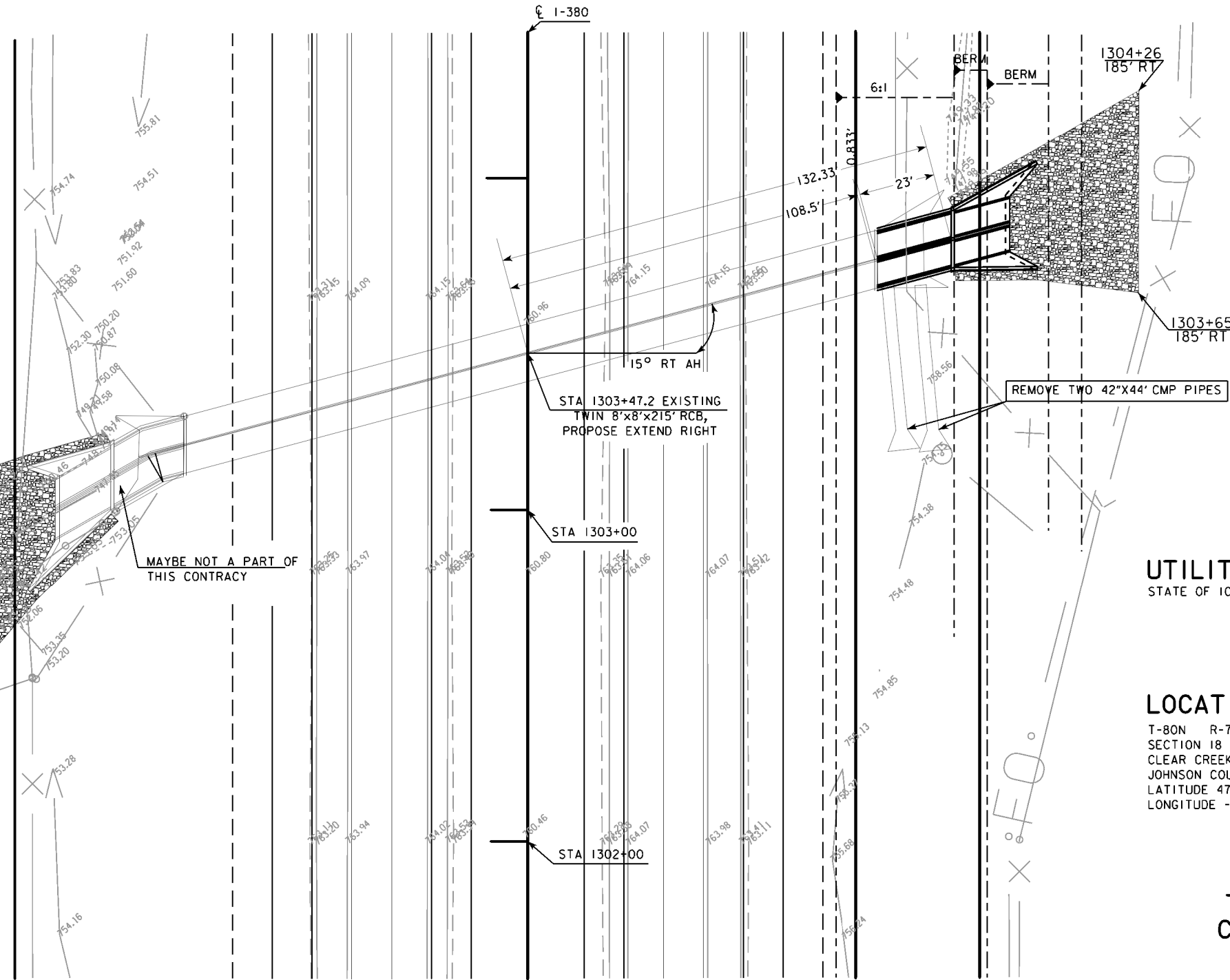
TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
RIGHT	250	300	155

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

OLD DES 2168 REMOVE HDWL TO FACE P-P
ONE 15° HDWL



HYDRAULIC DATA
DRAINAGE AREA = 1002 AC ROLLING.

UTILITIES LEGEND:
STATE OF IOWA (ICN)

LOCATION	TRAFFIC ESTIMATE	
	2004 AADT	32,700 V.P.D.
T-80N R-7W SECTION 18 CLEAR CREEK TOWNSHIP JOHNSON COUNTY	2040 AADT	74,540 V.P.D.
LATITUDE 47.732208° LONGITUDE -91.642310°	202. DHV	- V.P.H.
	TRUCKS	- %
	TOTAL DESIGN ESALS	-

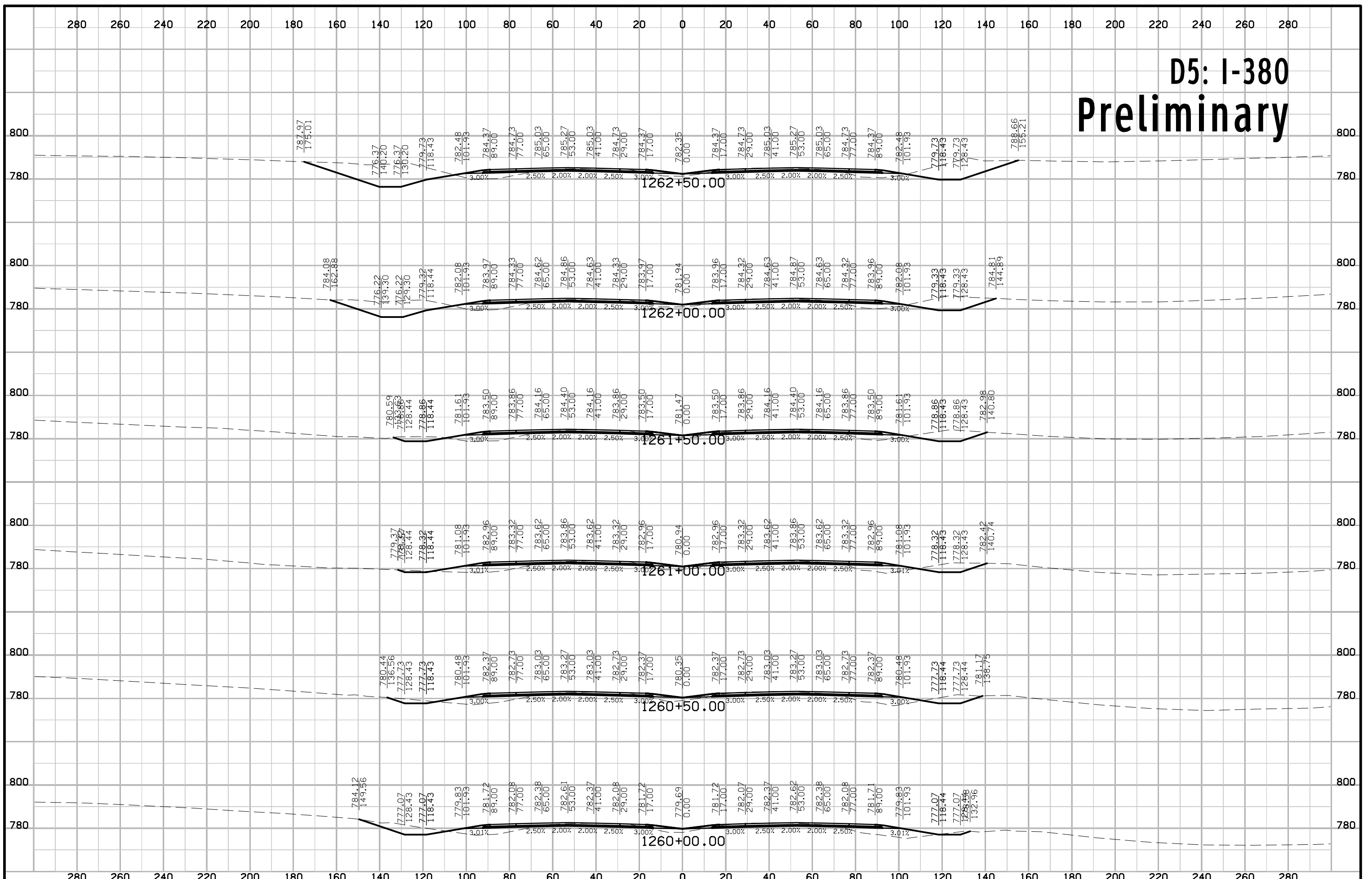
PRELIMINARY
DESIGN FOR 15° SKEW RT AH
TWIN 8'X8' REINFORCED CONCRETE BOX CULVERT EXTENSION SITUATION PLAN

STATION 1303+47.20

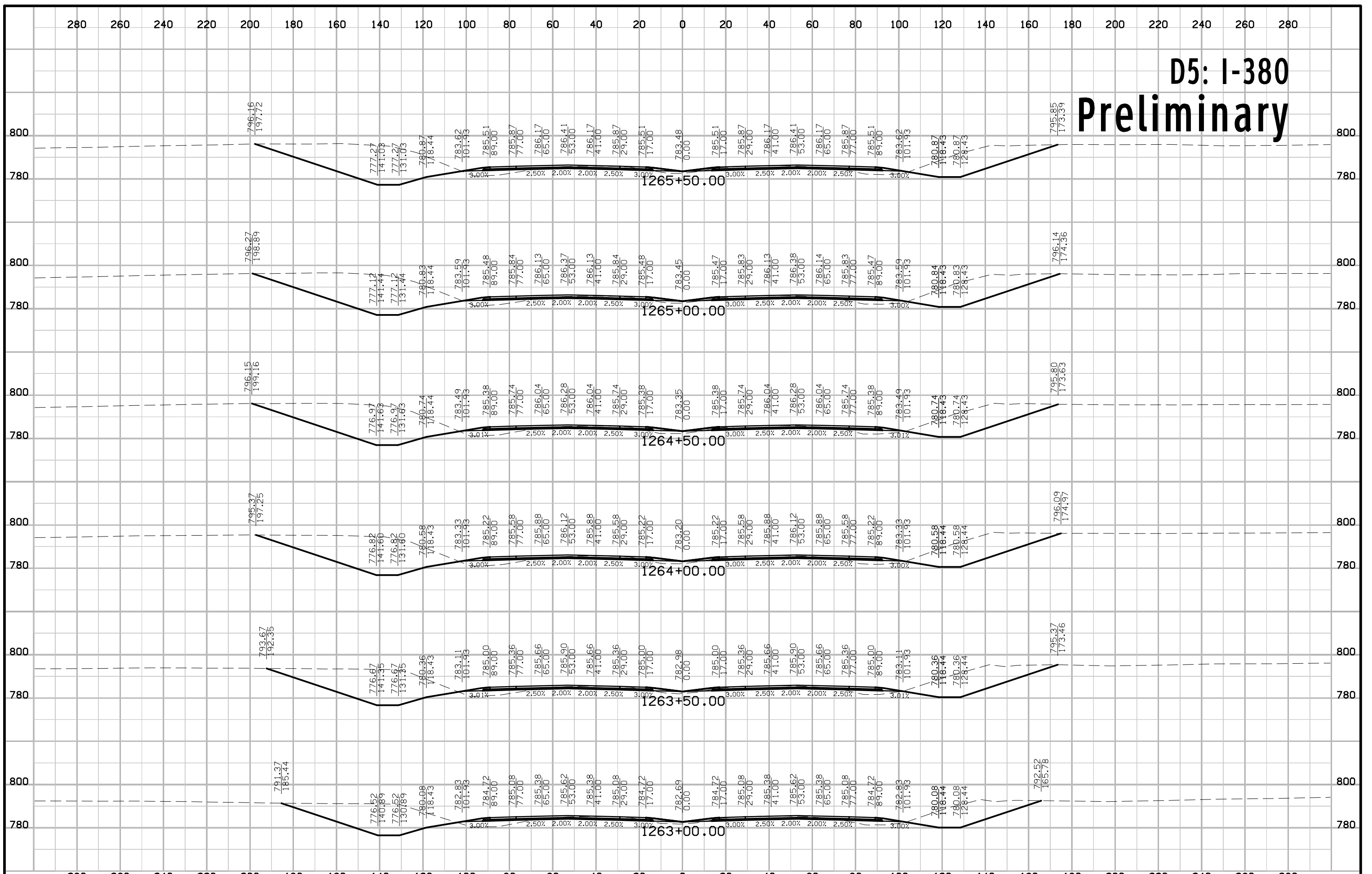
JOHNSON COUNTY

SITUATION PLAN

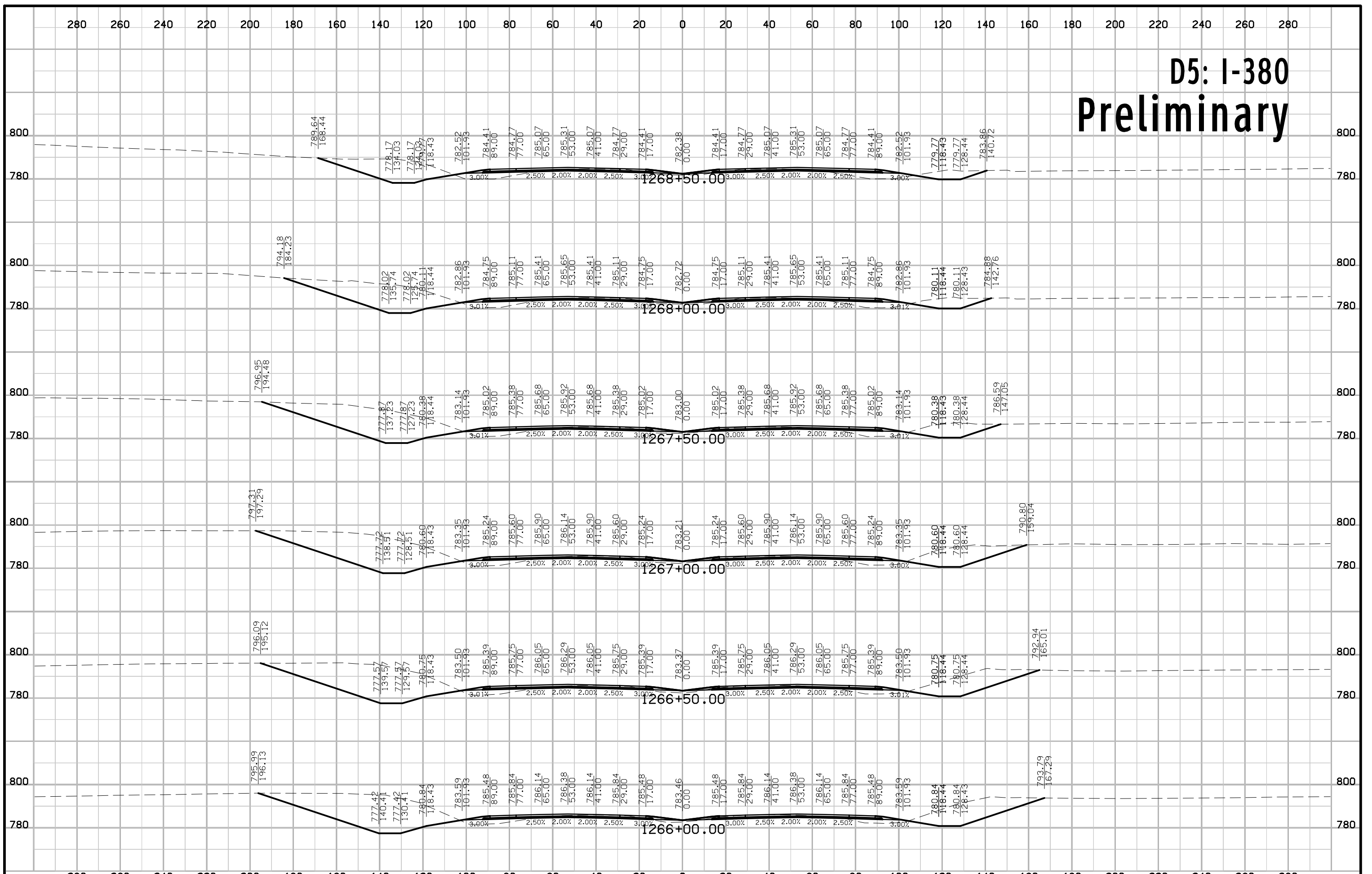
D5: I-380 Preliminary



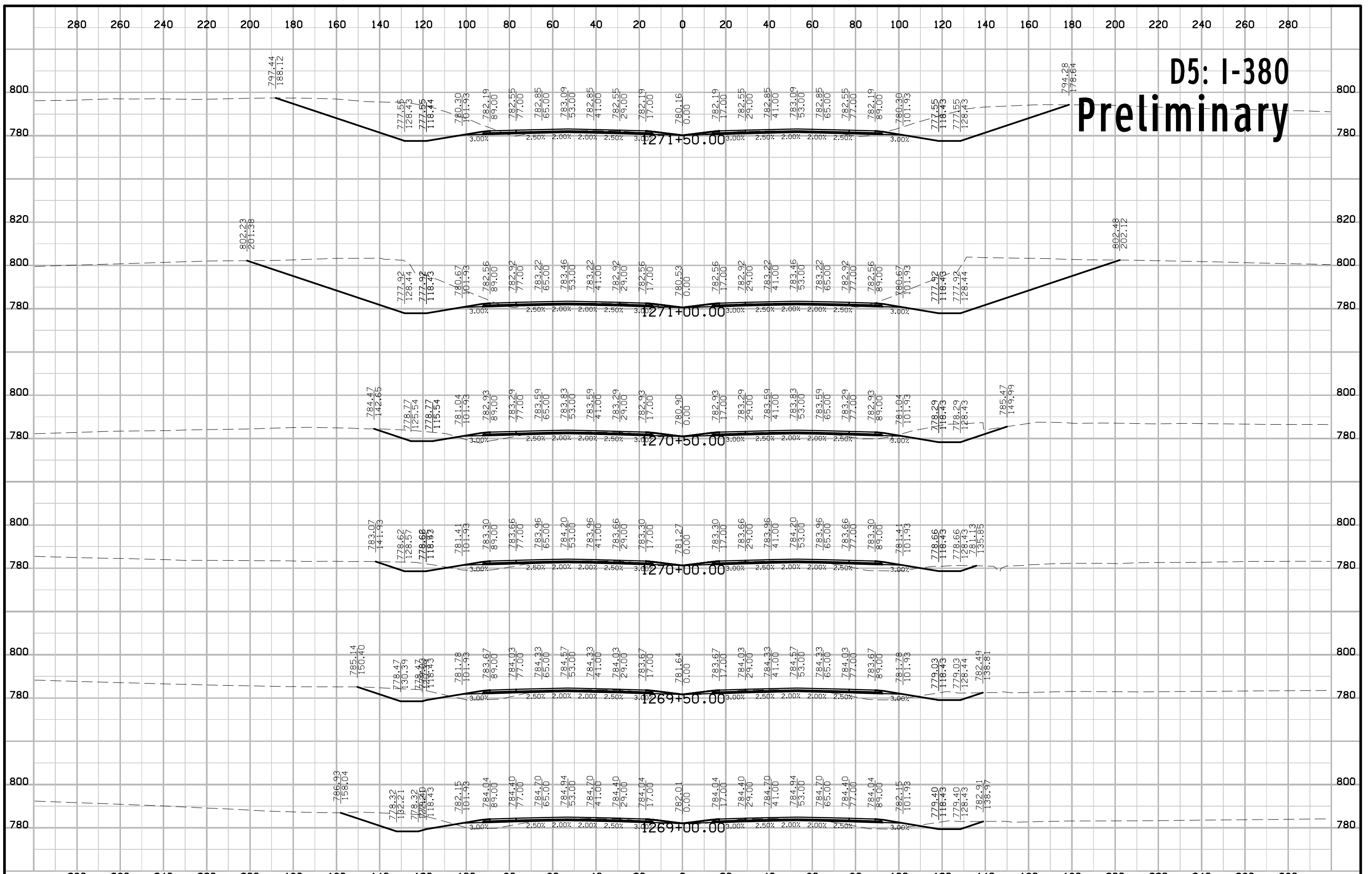
D5: I-380 Preliminary



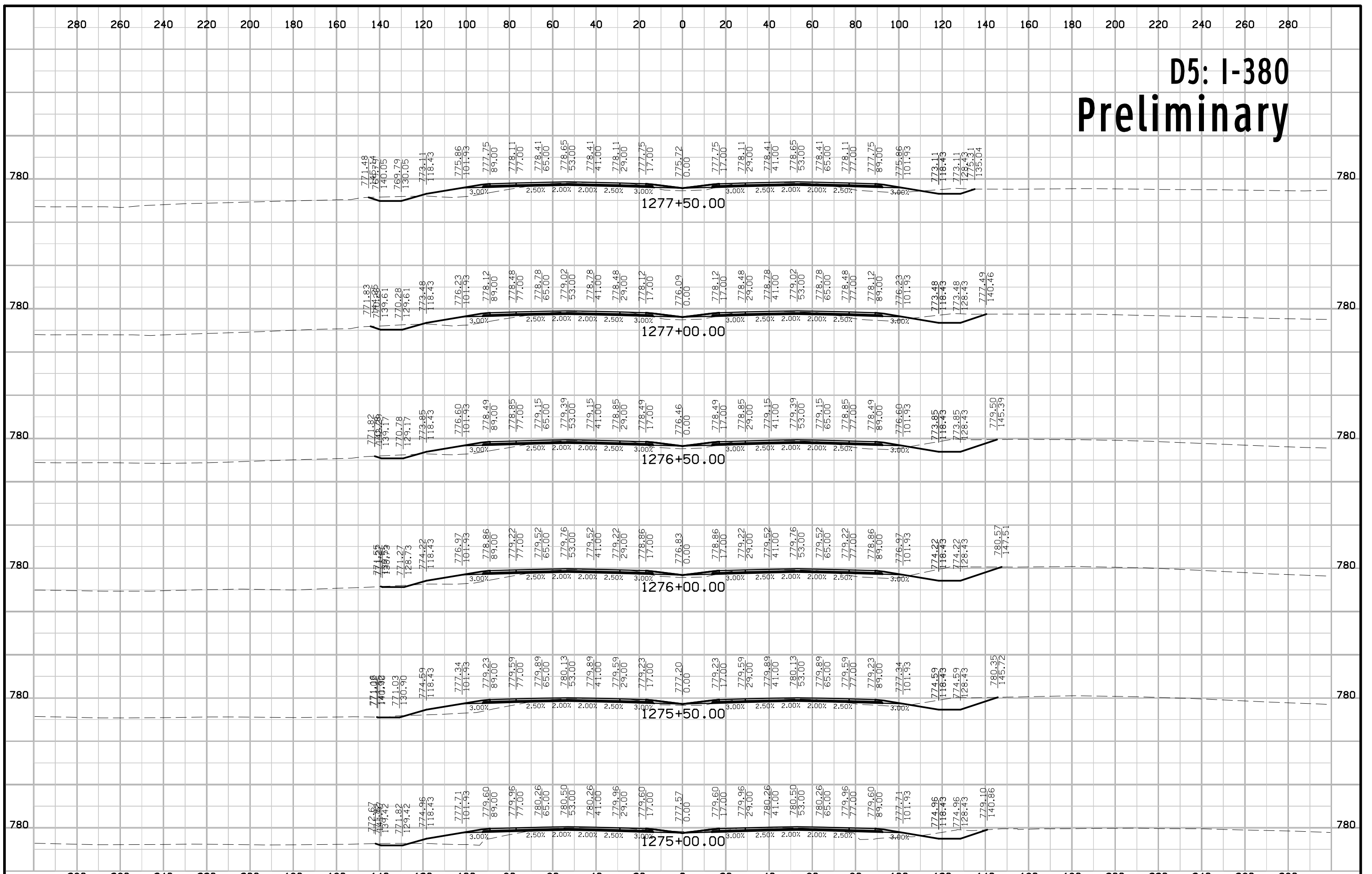
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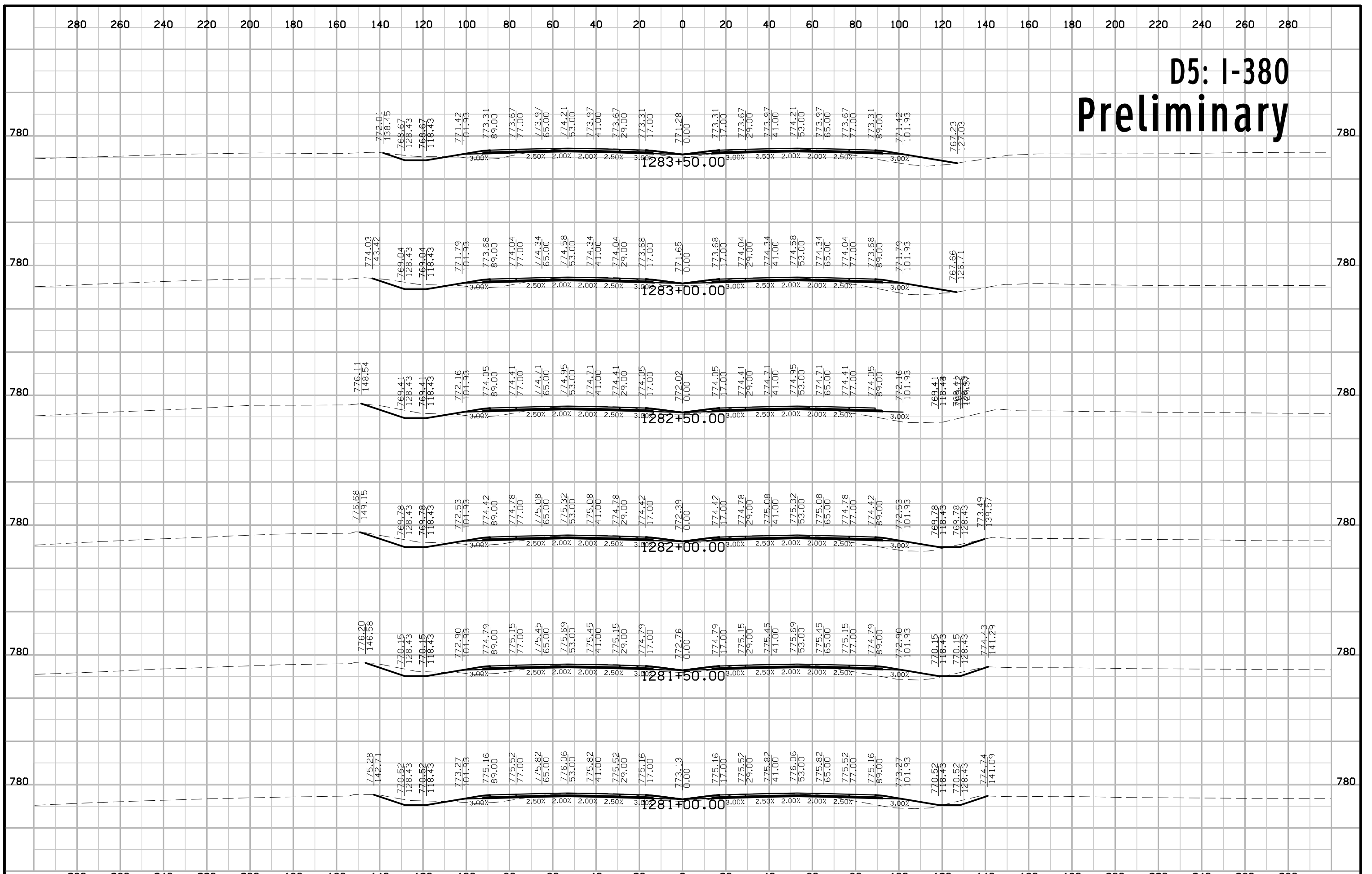
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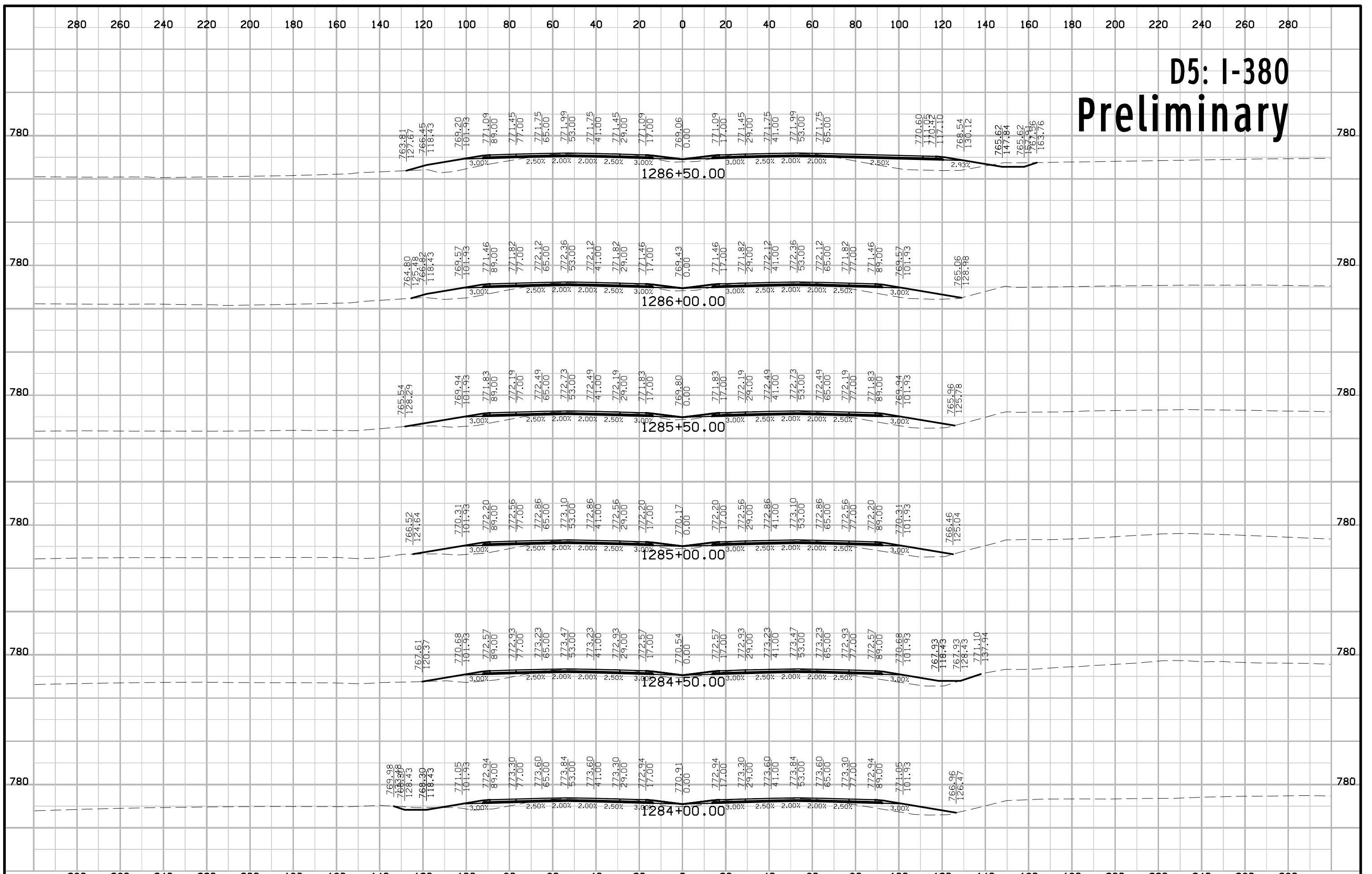
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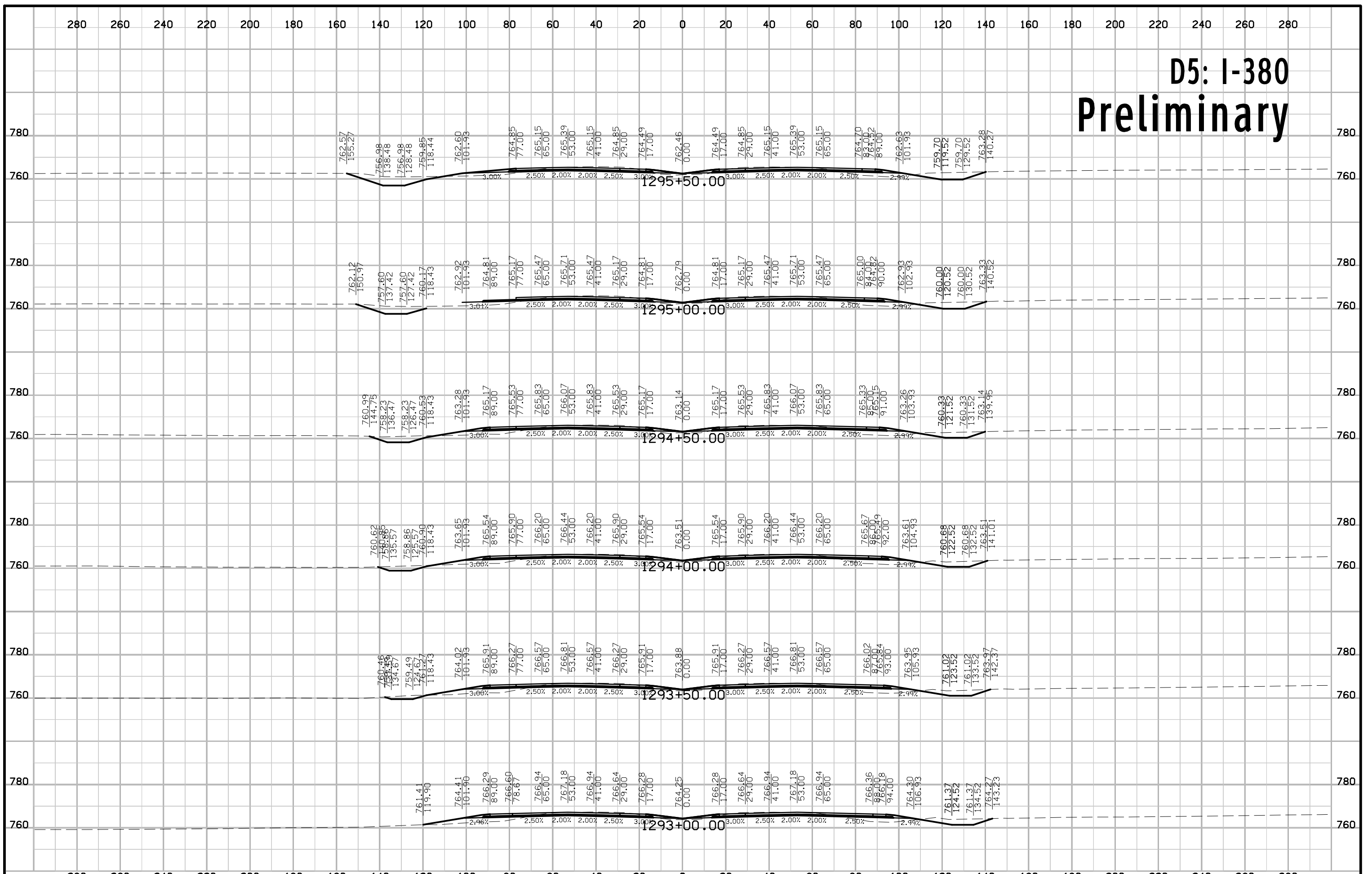
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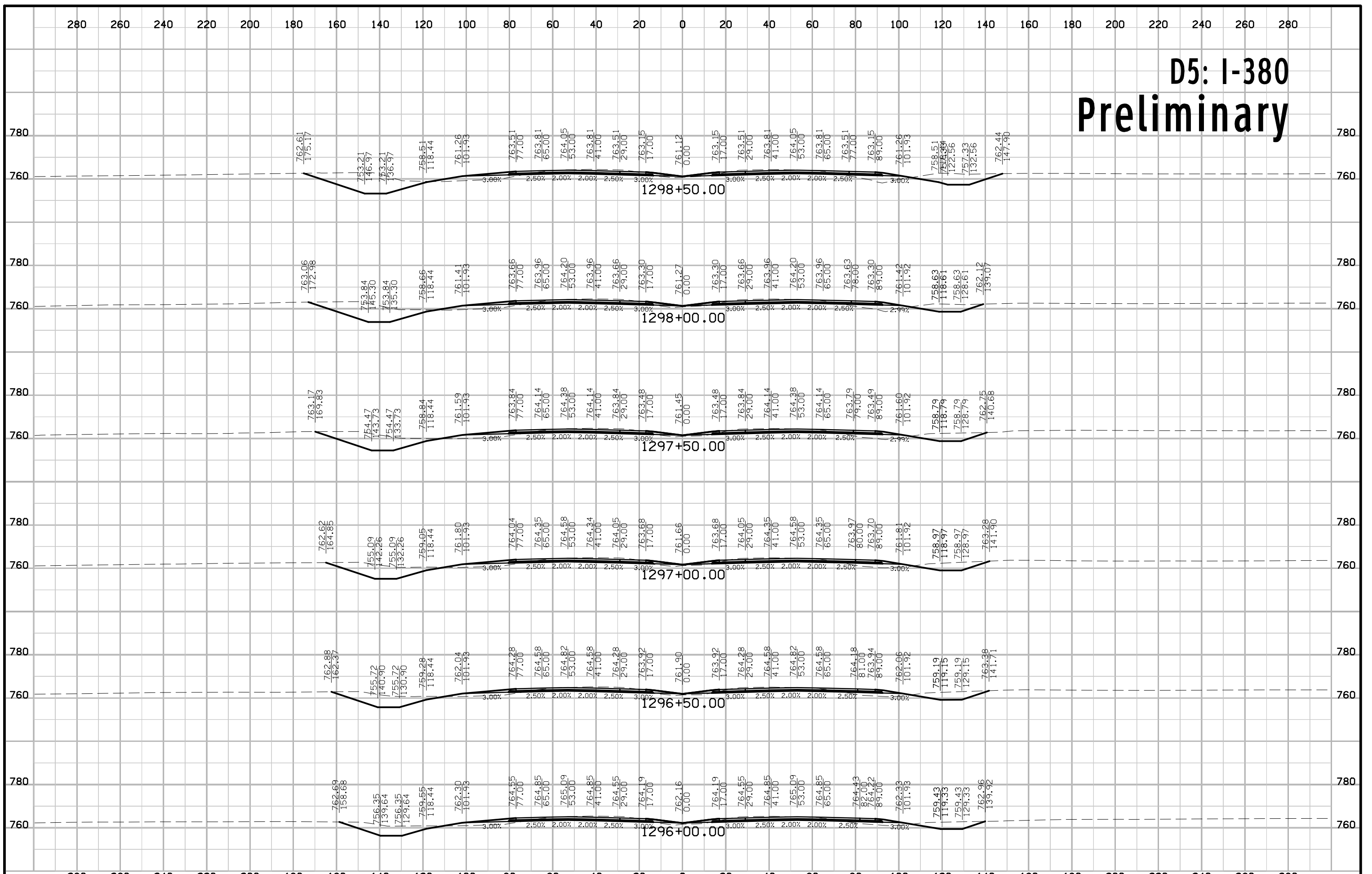
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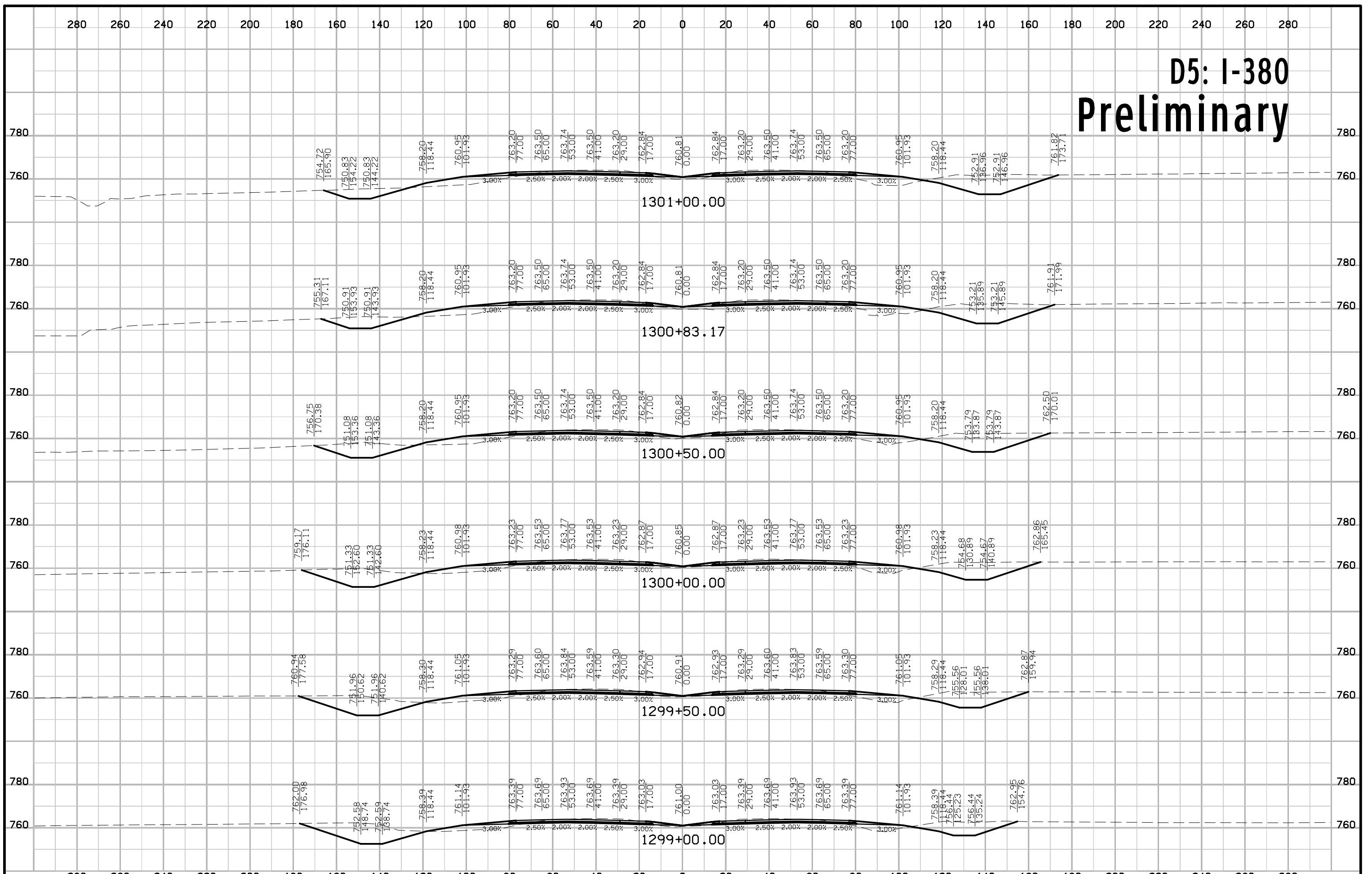
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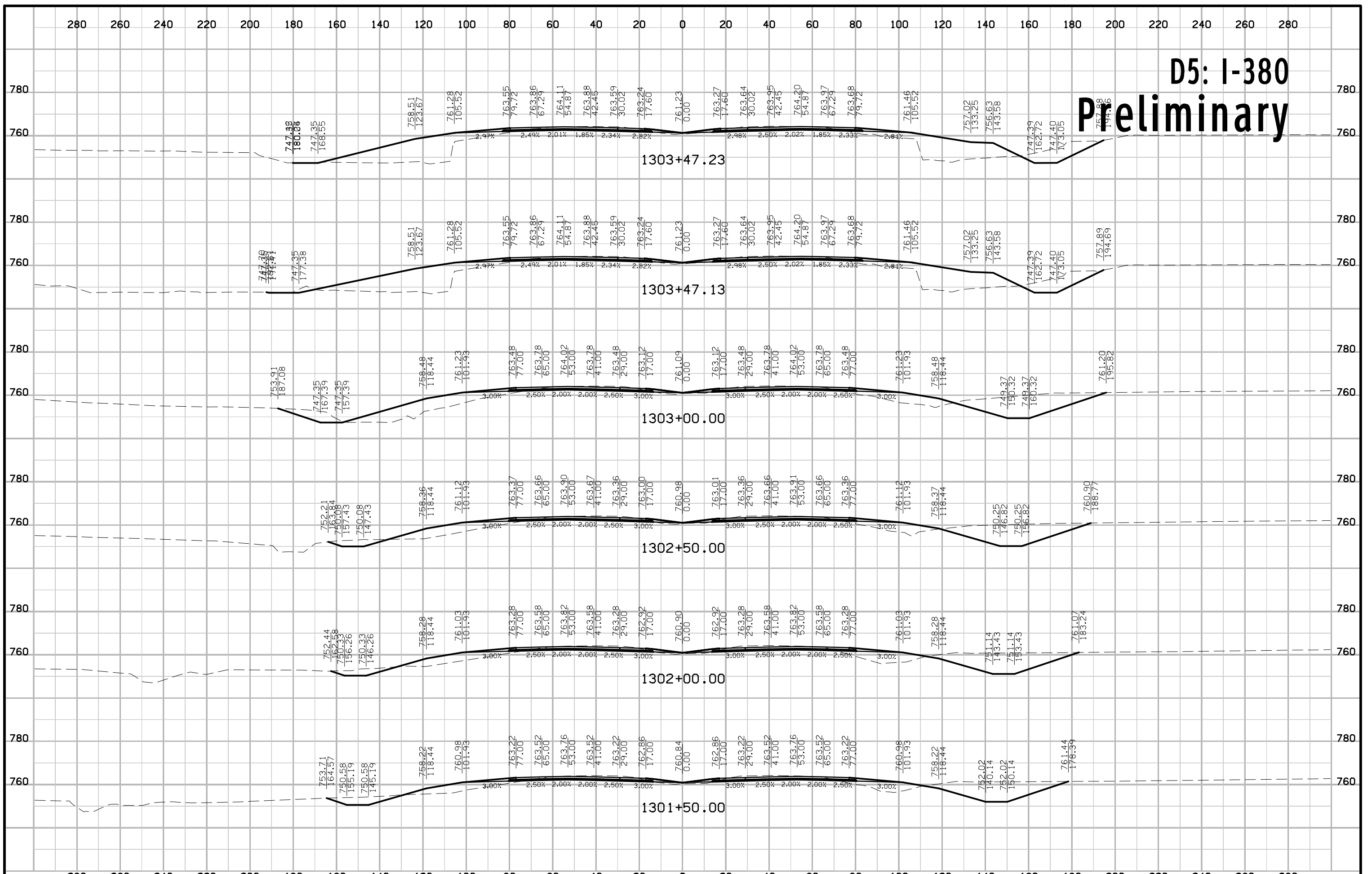
D5: I-380 Preliminary



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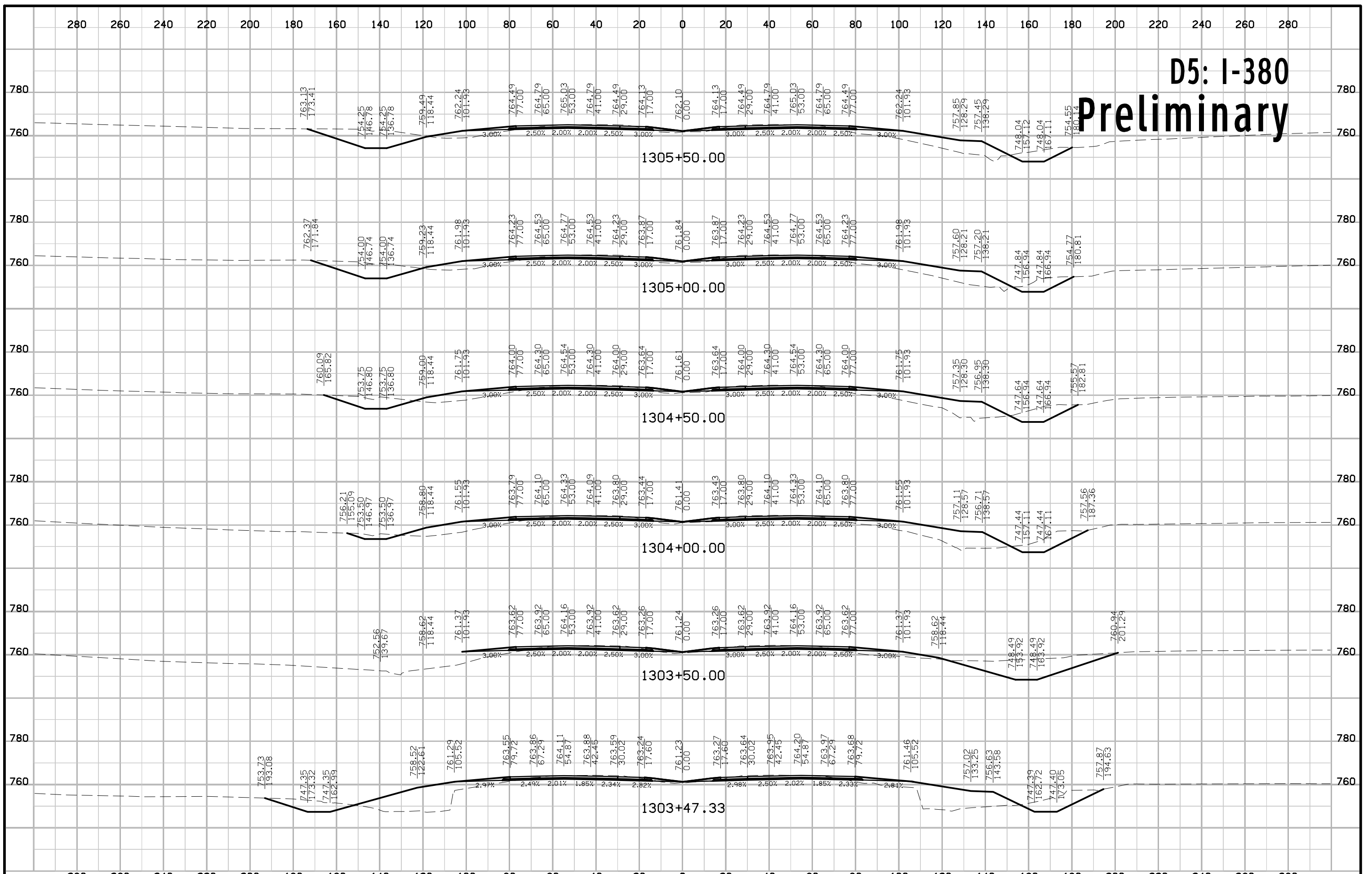


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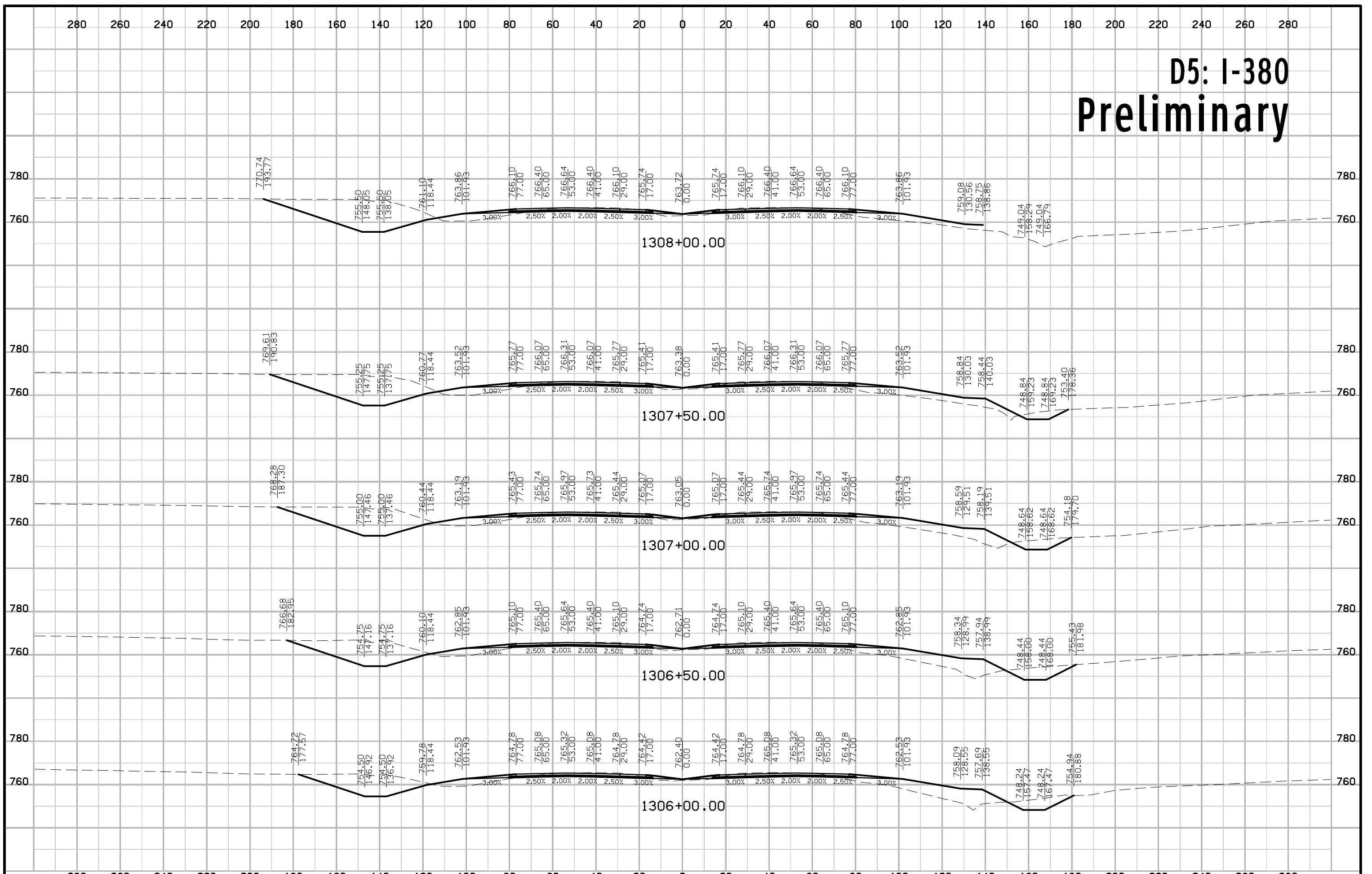


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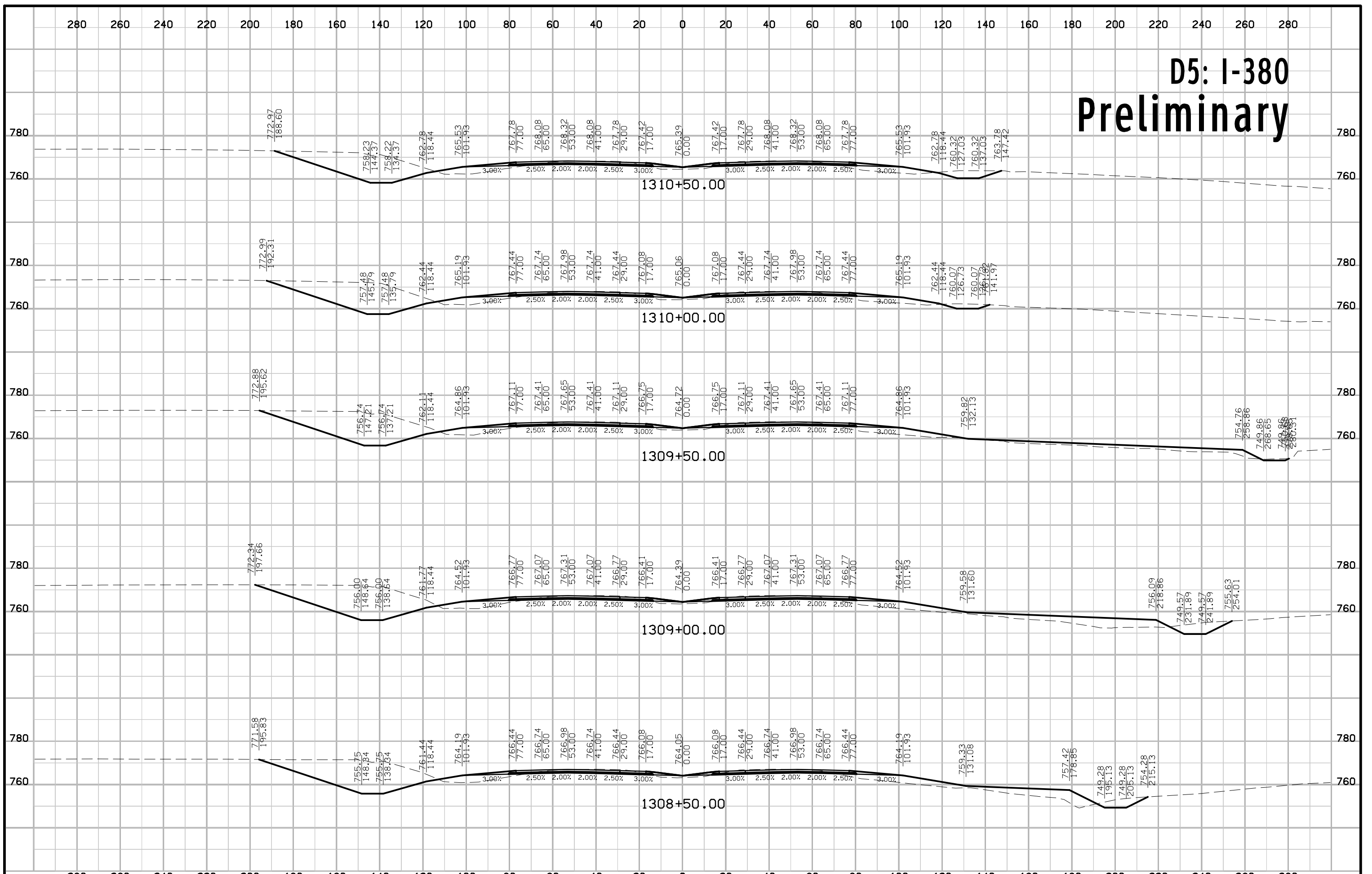
Preliminary



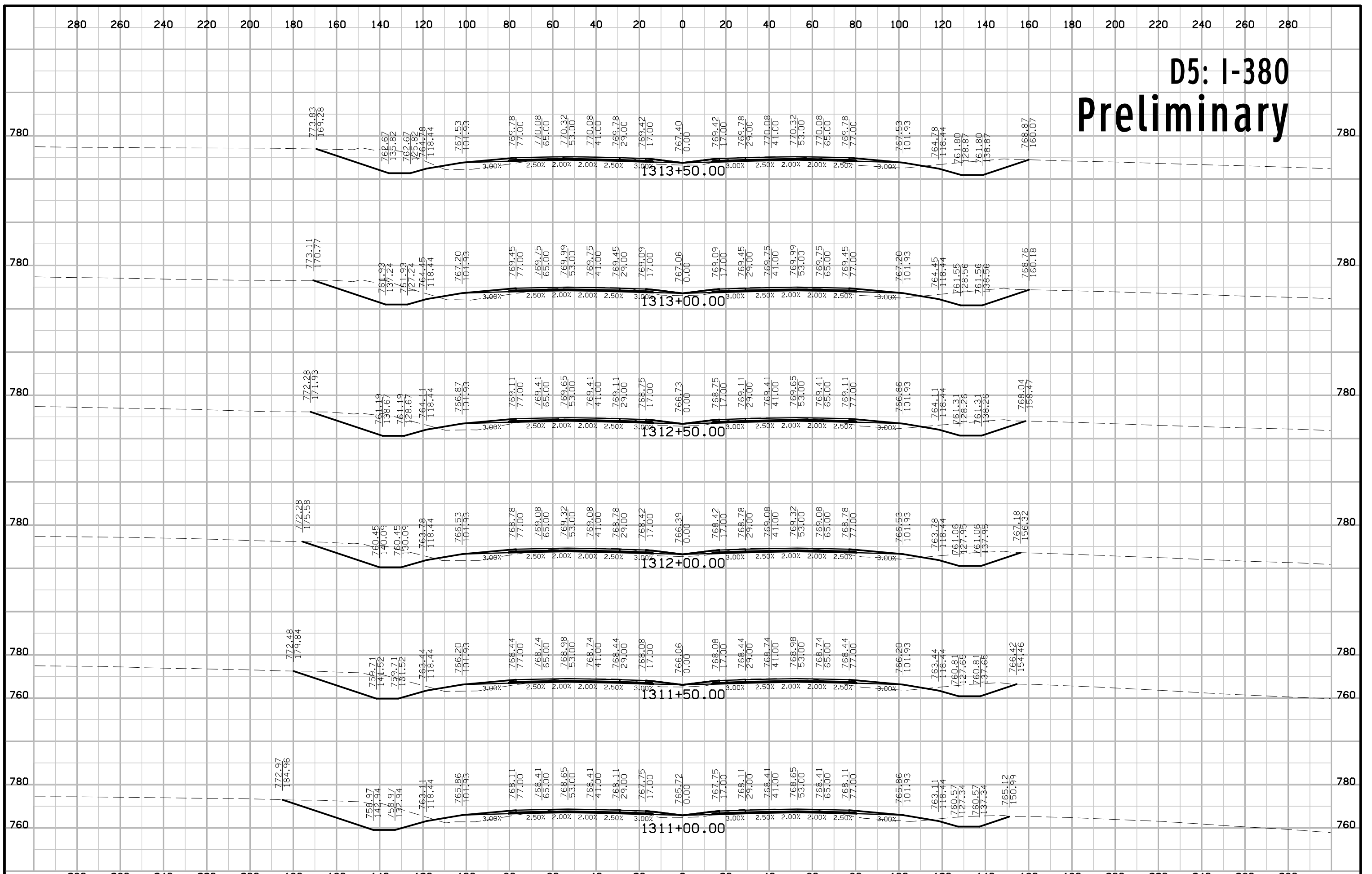
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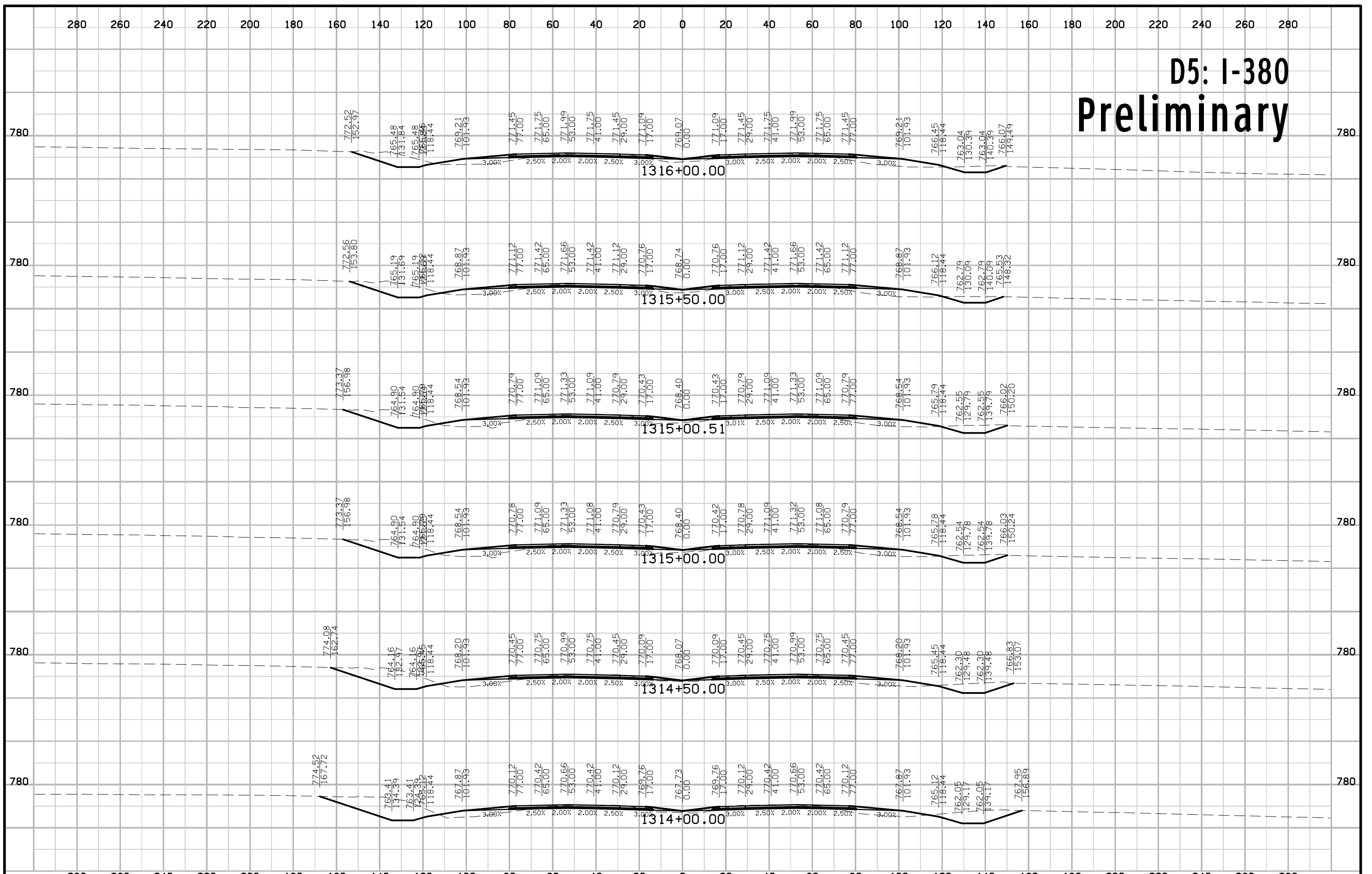
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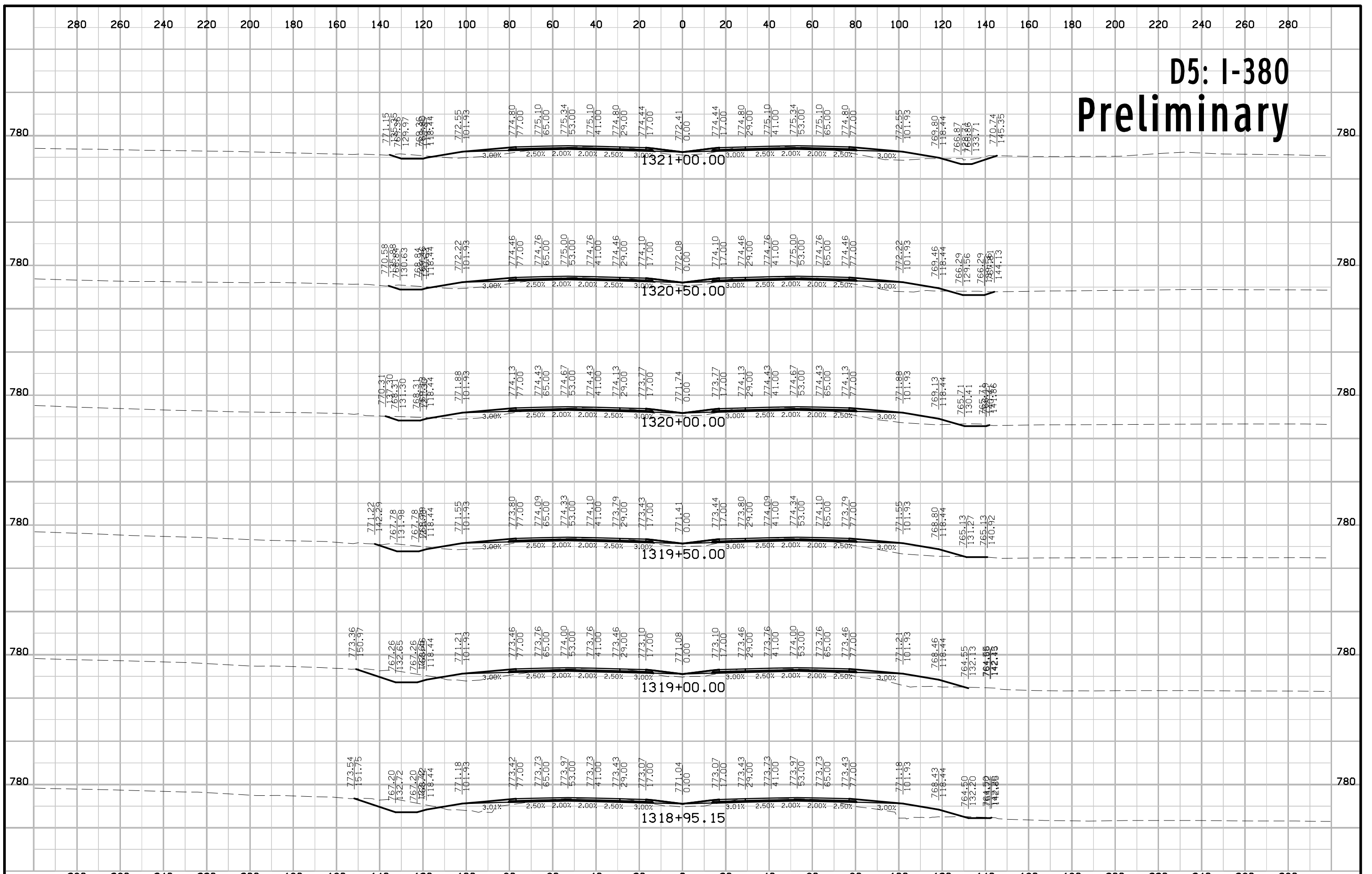
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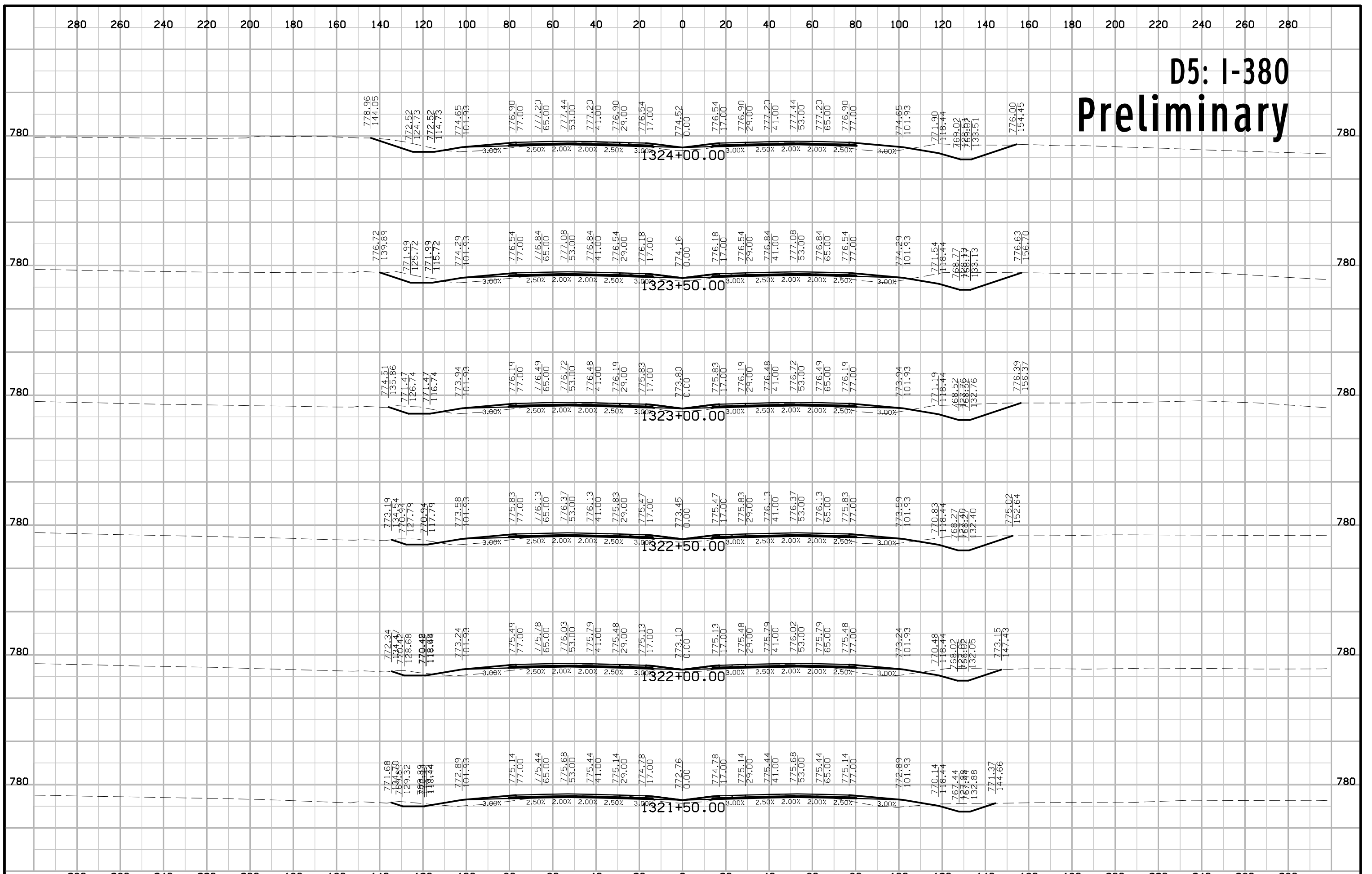
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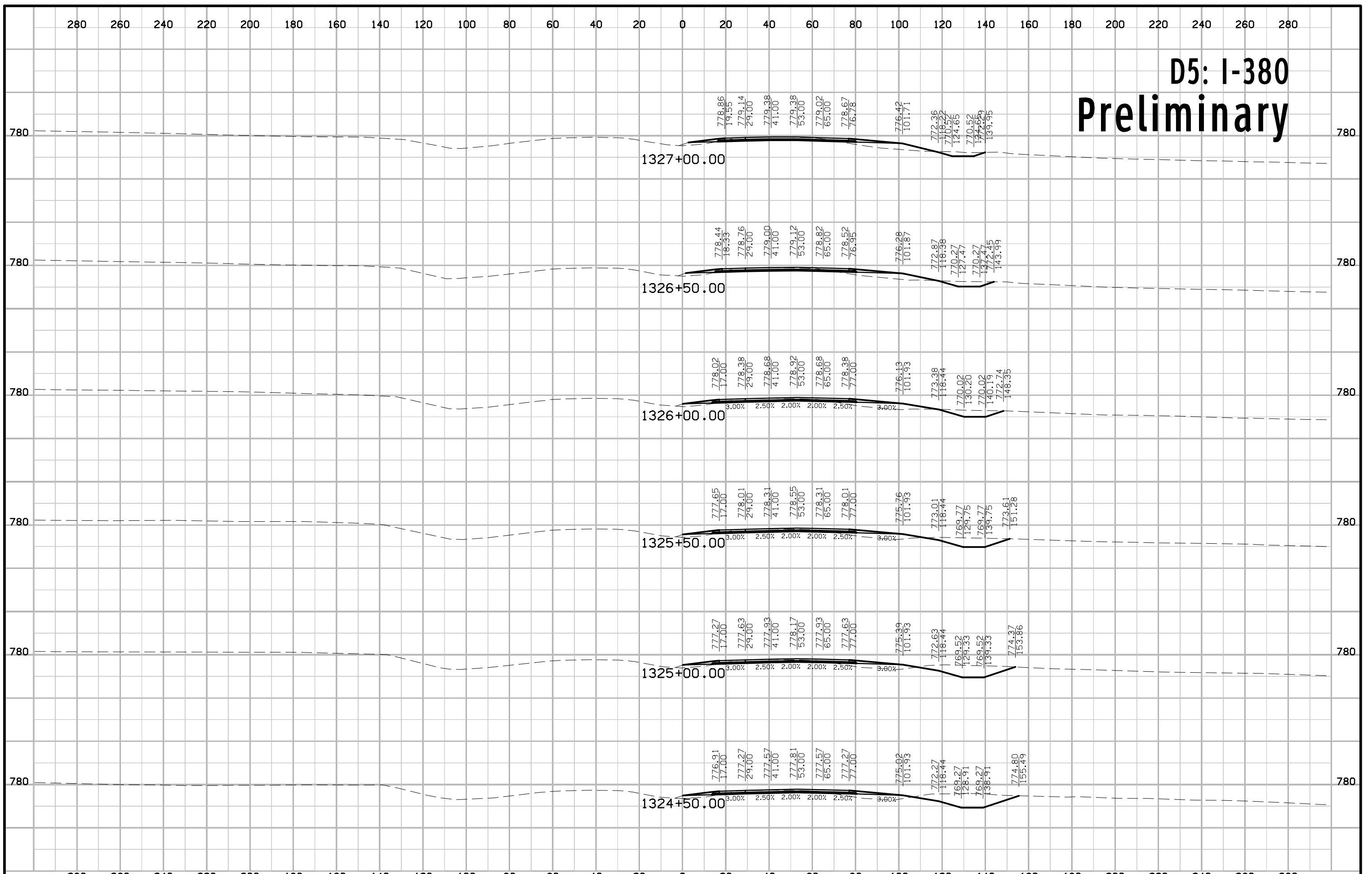
D5: I-380 Preliminary



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