PCC PAVEMENT, GRADE AND REPLACE
IM-NHS-035-2(467)63--03-91

LETTING DATE
NOV 17 2026

WARREN COUNTY

INDEX OF SHEETS

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B Sheets	**Typical Cross Sections and Details**
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C Sheets	**Quantities and General Information**
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C.2 - 5	Estimated Project Quantities
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V Sheets	**Bridge and Culvert Situation Plans**
* V.1 - 16	Bridge and Culvert Situation Plans
W Sheets	**Mainline Cross Sections**
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W.2 - 138	Mainline Cross Sections

* Color Plan Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
WARREN COUNTY
PCC PAVEMENT, GRADE AND REPLACE

NORTHBOUND I-35 FROM
1.8 MILES SOUTH OF
G14 TO 0.26 MILES NORTH OF ADAMS STREET

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

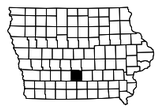
Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

For Project Location Map Refer to Sheet A.2

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

TOTAL
231
PROJECT IDENTIFICATION NUMBER
00-91-035-030-04
PROJECT NUMBER
IM-NHS-035-2(467)63--03-91
R.O.W. PROJECT NUMBER



I-35

EARTHWORK SUMMARY		
Cut	-	102,297 CY
Fill +30%	-	24,783 CY
Waste	-	77,514 CY

DESIGN DATA RURAL

2016	AADT	26,000 --	V.P.D.
2032	AADT	56,800 --	V.P.D.
2032	DHV	5,870 --	V.P.H.
TRUCKS		20.0 --	%
Total Design ESALs		--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	Cindy A. Spencer	Primary Signature Block
CS.1	Adam Tyler	Geotechnical

LICENSED PROFESSIONAL ENGINEER
CINDY A. SPENCER
P17561
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Cindy A. Spencer, P.E. Date

License Number P17561

My License Renewal Date is December 31, 2024

Pages or sheets covered by this seal:

D5 PLAN – Date: 09-02-24

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER A.1

4:43:50 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_A01toA05.dgn

STA. 1265+00.00
END CONSTRUCTION

STA. 1078+85.00
BEGIN CONSTRUCTION

WEST DES MOINES

CUMMING

NORWALK

DES MOINES WATERWORKS RESERVOIR

WILDROSE LN

105TH ST

110TH LN

10TH AVE

20TH AVE

ADAMS ST

40TH AVE

South Creek

Middle Creek

WOODLAND AVE

4B-425-100

4C-528-200

CUMMING RD

HWY G14

Creek 4B-480-200

WARREN AVE

4B-560-300

COOLIDGE ST

CLARKE ST

130TH ST

LINN D-1902

30TH AVE

DAKOTA ST

50TH AVE

DELAWARE ST

45TH AVE

140TH ST

DUBUQUE ST

EISENHOWER

43RD PL

WALNUT LN

25TH AVE

33RD AVE

40TH AVE

ELK HORN ST

53RD AVE

ERBE ST

FAIRFAX ST

LINN D-3100

T-77N

R35

R45

G4R

G14

28

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER A.2

9:16:10 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_A01toA05.dgn

Roadway	**I-35**			
PIN Number	00-91-035-030-4		**Submittal Date**	
Project Number	IM-NHS-035-2(467)63--03-91			**Approval Date**
District	District 5	**Assistant District Engineer**	Steve McElmeel	
County	WARREN		**or**	
Route		**Office Director**		
Location	NB from 1.6 mi S of G14 to Iowa 5			
Work Type	PCC Pavement - Grade and Replace			
Segment Manager				
Designer	Snyder & Associates, Inc.			

Design Manual Section 1C-1
Last Updated: 04-29-19

Rural Interstates (Rural Freeways)

Design Element		Preferred	Acceptable	Project Values	Interstates	Freeways
Design speed (mph)		75	70	75	IDG page 3	GB Section 8.2.1
Maximum superelevation rate (%) (Refer to Section 2A-2)		6	8	6	GB page 3-31	
Design lane width (ft)		12	12	12	IDG page 4	GB Section 8.2.4
Full depth paved width (ft)	Outside lane	12'	12	12	–	–
	Inside lane(s)	12	12	12	–	–
Auxiliary-lane width (ft)		12	12	12	IDG page 4	GB page 10-90
Pavement cross-slope (on tangent sections)	Through lanes	2%, However, when adjacent lanes slope in the same direction, increase slope by 0.5% per lane up to 3%	1.5% minimum, 3% maximum	2% / 2.5%	IDG page 5	GB Section 8.2.4
	Auxiliary lanes	3%	3% maximum	3%	GB page 4-6	
	Crown break at centerline	4%	4% maximum	4%	GB page 4-6	
Shoulder cross-slope (on tangent sections)	Interstates	4%	6% max, but not less than the cross slope of the adjacent lane	4%	IDG page 5	–
	Freeways	4%	6% max, but not less than the cross slope of the adjacent lane		–	GB section 8.2.4
Curb type (Refer to Section 3C-2)	Interstates	4-inch sloped	4-inch sloped		IDG page 6	–
	Freeways	4-inch sloped	4-inch sloped		–	GB section 4.7.1
Foreslope (For fill areas greater than 40 ft, contact the Soils Design Section for assistance)	Adjacent to shoulder	10:1 for 4' then 6:1	4:1 for Interstates, 3:1 for Freeways*	10:1 to 6:1	IDG page 5	RDG section 3.3.2
	Beyond standard ditch depth and design clear zone	3.5:1	3:1	3.5:1	RDG section 3.3.2	
	Curbed roadways	2%	4:1 for Interstates, 3:1 for Freeways*	N/A	IDG page 5	RDG section 3.3.2
Backslope (For cut areas greater than 25 feet, contact the Soils Design Section for assistance with backslope benches.)		3:1	2.5:1	3:1	GB Section 4.8.4	
Transverse Slopes	w/ drainage structures	8:1	6:1	N/A	RDG Section 3.2.3	
	w/o drainage structures	10:1	6:1	N/A		
Ditches (Refer to Section 3G-1)	Outside ditch (depth x width) (ft)	5 x 10	--	10' wide	–	
	Median ditch depth (ft)	4	2	4'	–	
Median width (ft) (Refer to Section 3E-1)	Interstates	82	36	82'	IDG page 5	–
	Freeways	64	50		–	GB Section 8.3.2
Bridge width—new***	Bridge length ≤ 200 ft	design lane widths + effective shoulder widths	design lane widths + effective shoulder widths	N/A	IDG page 7	GB Section 8.2.8
	Bridge length > 200 ft	design lane widths + effective shoulder widths	design lane width + 4' right and left of the design lane widths	N/A	IDG page 7	
Bridge width—existing***	Bridge length ≤ 200 ft	design lane widths + no less than 10' right and 3.5' left	design lane widths + 10' right shoulder and 3.5' left shoulder	N/A	IDG page 7	
	Bridge length > 200 ft	design lane widths + no less than 3.5' right and left	design lane widths + 3.5' right and left of the design lane widths	N/A	IDG page 7	
Vertical clearance (ft) (above lanes, shoulders and 25 feet left and right of the center of railroad tracks)	Over primary	16.5	16	16.5'	IDG page 7	GB Section 8.2.9
	Over non-primary	16.5 at interchange locations, 15 ft at all other locations	14	16.5'	GB pages 5-9 and 6-8	
	Over railroad	23.3	23.3	N/A		
	Sign trusses and pedestrian crossings	17.5	17	17.5'	IDG page 7	GB Section 8.2.9
Structural Capacity		Contact Office of Bridges and Structures	Contact Office of Bridges and Structures	N/A	–	
Level of Service	Freeway segments	B	B	B	GB Section 8.2.3	
	Auxiliary facilities	B	B**	B		

*Design Exception not required for Freeways
**LOS C may be acceptable in spot locations with FHWA approval
***FHWA notification via email is required if acceptable criteria is not met on the Interstate or NHS systems (No formal design exception required)

Directional Design Hourly Volume (DDHV) for Trucks =

Design Manual Section 1C-1
Last Updated: 04-29-19

Effective Shoulder Width and Type for Interstates (Freeways)

Auxiliary Lanes	Preferred (values shown in feet)		Acceptable (values shown in feet)		Project Values	Interstates	Freeways
	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width		GB page 10-90	
	6	6	6	6	6'		

4-Lane Sections

Design Year Traffic	Outside		Median Side		Outside		Median Side		Project Values		
	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width			
Less than or equal to 250 DDHV	10	10	6	6	10	10	4	4	N/A	IDG page 4	GB section 8.2.4
Greater than 250 DDHV	12	12	6	6	12	12	4	4	N/A	IDG page 4	GB section 8.2.4

Sections with 6 or more lanes

Design Year Traffic	Outside		Median Side		Outside		Median Side		Project Values		
	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width			
Less than or equal to 250 DDHV	10	10	10	10	10	10	10	10	N/A	IDG page 4	GB section 8.2.4
Greater than 250 DDHV	12	12	12	12	12	12	12	12	12'	IDG page 4	GB section 8.2.4

Curbs should be located beyond the outer edge of the paved shoulder	IDG page 6	GB section 8.2.5

Notes:

Using full-depth paved shoulder for outside shoulder.

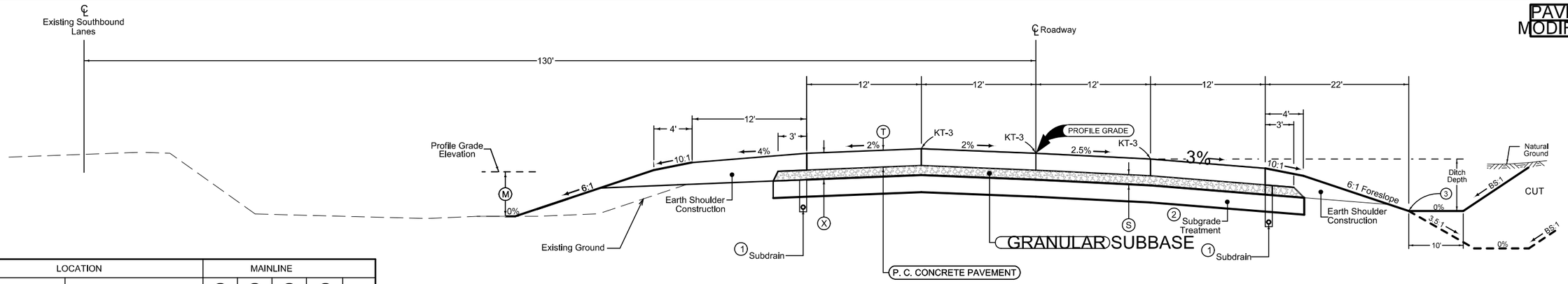
Roadway Design Speed (mph) = 75

Design Manual Section 1C-1
Last Updated: 04-29-19

Design Criteria for High Speed Roadways

Design Element			Preferred Criteria Design Speed, mph						Acceptable Criteria Design Speed, mph						Project Values	
			50	55	60	65	70	75	50	55	60	65	70	75		
Stopping sight distance (ft) (Refer to Section 6D-1)			425	495	570	645	730	820	425	495	570	645	730	820	820	GB Table 3-1
Minimum horizontal curve radius (ft) (Refer to Sections 2A-2 and 2A-3)	Method 5 superelevation and side friction distribution	e_{max} = 6%	833	1060	1330	1660	2040	2500	833	1060	1330	1660	2040	2500	2500	GB Table 3-7
		e_{max} = 8%	--	--	--	--	--	--	758	960	1200	1480	1810	2210		GB Table 3-7
Minimum vertical curve length (ft) (Refer to Section 2B-1)			150	165	180	195	210	225	150	165	180	195	210	225	225	GB page 3-167
Minimum rate of vertical curvature (K) (Refer to Section 2B-1)	crest vertical curves		84	114	151	193	247	312	84	114	151	193	247	312	312	GB Table 3-35
	sag vertical curves	roadways without fixed-source lighting	96	115	136	157	181	206	96	115	136	157	181	206	206	GB Table 3-37
		roadways with fixed-source lighting	96	115	136	157	181	206	54	66	78	91	106	121	206	GB page 3-176
Minimum gradient (%)	(Refer to Section 2B-1)		0.5						0.3% with a curb, 0.0% without a curb						0.5%	GB page 3-130
Maximum gradient (%)	(Refer to Section 2B-1)	Urban roadways	4		3				7	6	6	–	–	–	N/A	GB Table 7-4a
		Rural roadways							5	5	4	4	4	4	N/A	GB Table 7-2
		Interstates							5	5	4	4	4	4	3%	IDG page 3
Clear zone			See "Preferred Clear Zone" table in Section 8A-2						See "Acceptable Clear Zone" table in Section 8A-2						34'	

PAVE 1
MODIFIED



LOCATION		MAINLINE				
ROAD IDENTIFICATION	STATION TO STATION	(T) Inches	(S) Inches	(X) Inches	(M) Feet	BS
I-35 NB	1078+85.00 1136+25.00	11.0	6	17.0	4.0	3
I-35 NB	1136+25.00 1136+50.00	11.0	6	17.0	4.0	TRANS
I-35 NB	1136+50.00 1139+50.00	11.0	6	17.0	4.0	2.5
I-35 NB	1139+50.00 1139+75.00	11.0	6	17.0	4.0	TRANS
I-35 NB	1139+75.00 1142+75.00	11.0	6	17.0	4.0	3
I-35 NB	1142+75.00 1143+00.00	11.0	6	17.0	4.0	TRANS
I-35 NB	1143+00.00 1145+00.00	11.0	6	17.0	4.0	2.5
I-35 NB	1145+00.00 1145+25.00	11.0	6	17.0	4.0	TRANS
I-35 NB	1145+25.00 1265+00.00	11.0	6	17.0	4.0	3

Transverse joints: CD at 15' spacing

(1) Refer to Tab. 104-9.

(2) Refer to Detail G_4D_Grade_Delay_S, Sheet B.3.

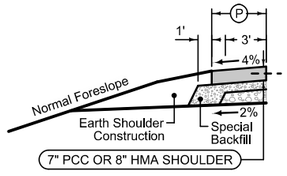
(3) Refer to project plan and cross sections for specific location of foreslope change.

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

See Plan and Profile Sheets and Cross Sections for additional details of Ditches and Backslopes.

See Tab 100-24 for Pavement Quantities

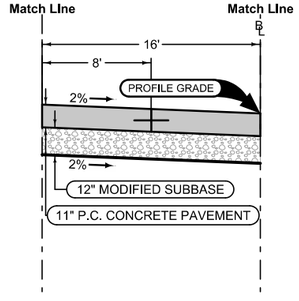
TYPICAL CROSS SECTION NORTHBOUND LANES GRADING AND PAVING



Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 15' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

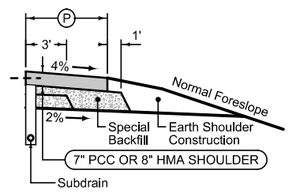
1R_P_ALT_ 10-16-18			
ALIGNMENT	BEGIN STATION	END STATION	(P) Feet
RAMP B	2553+94.61	2554+94.99	4



Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 15' spacing.
Longitudinal joints: L-2

1RP_ 04-20-21	
BEGIN STATION	END STATION
2553+94.61	2554+94.99



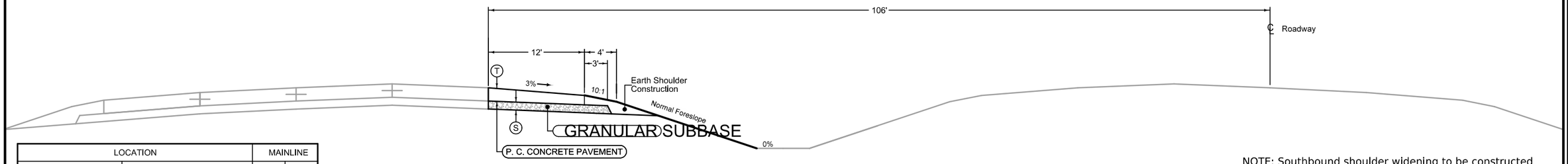
Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 15' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-16-18		
BEGIN STATION	END STATION	(P) Feet
2553+94.61	2554+94.99	6

TYPICAL CROSS SECTION RAMP LANES GRADING AND PAVING

SHLDR-1



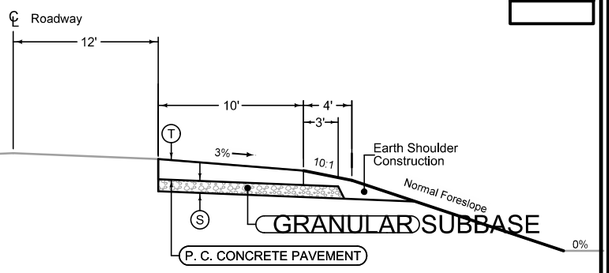
LOCATION		MAINLINE	
ROAD IDENTIFICATION	STATION TO STATION	(T) Inches	(S) Inches
I-35 SB	1074+21.37 1266+07.87	11.0	6

FOR INFORMATION ONLY

NOTE: Southbound shoulder widening to be constructed with project IM-NHS-035-2(465)--03-91

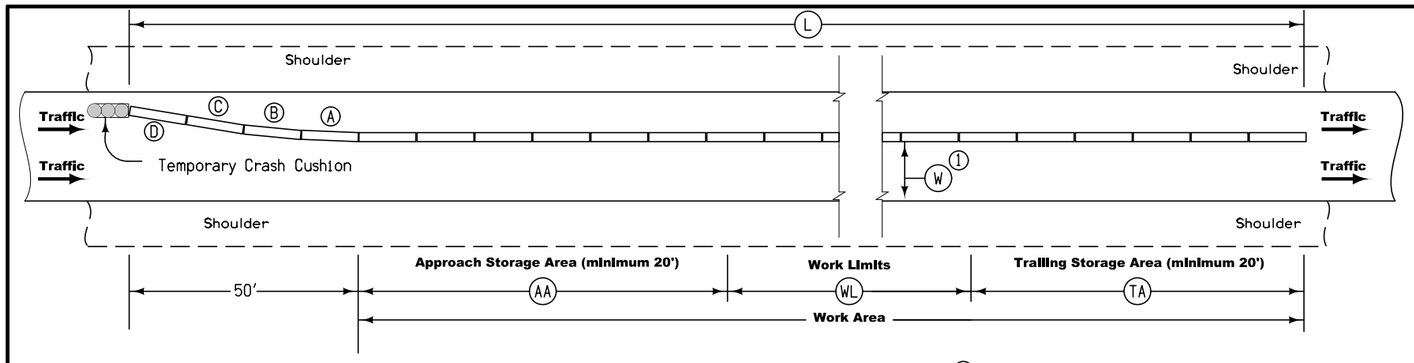
SOUTHBOUND SHOULDER CONSTRUCTION

SHLDR-2

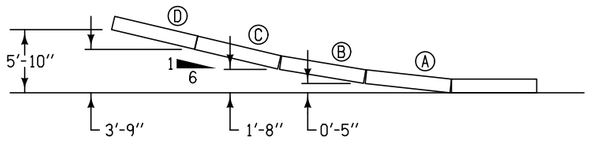


LOCATION		MAINLINE	
ROAD IDENTIFICATION	STATION TO STATION	(T) Inches	(S) Inches
I-35 NB	1137+50.00 1147+78.83	11.0	6
I-35 NB	1154+41.39 1186+83.75	11.0	6
I-35 NB	1198+38.42 1203+50.00	11.0	6

NORTHBOUND SHOULDER STRENGTHENING



1. Where W is less than 14'-6", install restricted width signing as per Standard Road Plan TC-81.
2. 6' Wide paved shoulder adjacent to lane. No restricted width signing required.

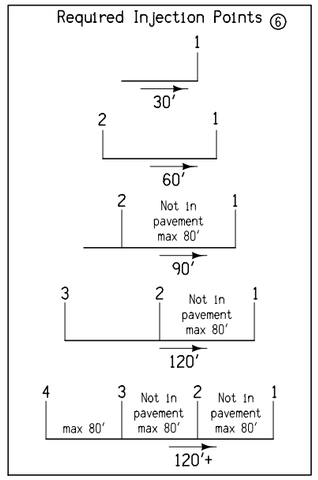


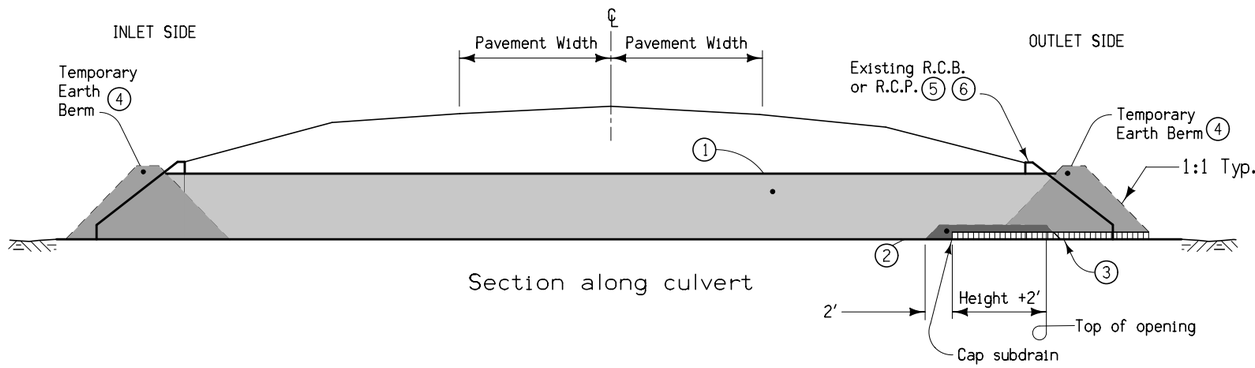
BARRIER OFFSETS FOR FLARE SECTIONS

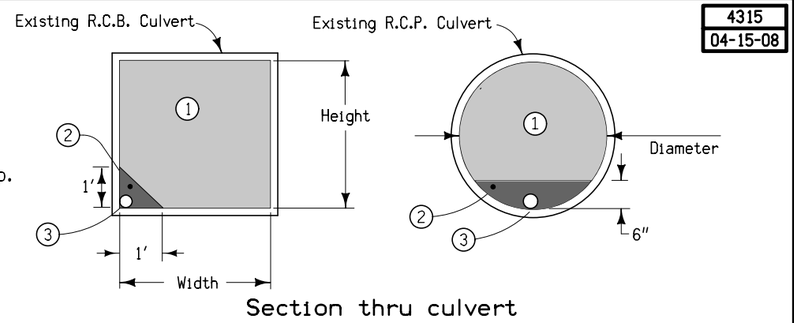
8210
MODIFIED

STATION TO STATION		SIDE	(AA) Feet	(WL) Feet	(TA) Feet	(L) Feet	Anchored X	(W)(1) Ft-Inches	Remarks
1072+42.84	1268+25.12	SBL	125.0	19462.5	N/A	19587.5	No	29'-0"	STG 2
1145+35.83	1195+94.60	NBL	45.0	4922.5	95.0	5062.5	No	26'-0"	
1264+90.50	1272+40.50	NBL	20.0	710.0	20.0	750.0	No	26'-0"	
1072+42.84	1269+05.14	SBL/NBL	200.0	19462.5	N/A	19662.5	No	24'-0"	STG 3
1146+73.92	1148+03.85	NBL-XOVER	20.0	110.0	20.0	150.0	No	20'-0"	
1149+97.56	1154+37.23	NBL-XOVER	20.0	410.0	20.0	450.0	No	16'-0"	
1167+68.01	1172+43.01	NBL	20.0	435.0	20.0	475.0	No	24'-0"	
1187+20.20	1188+05.33	NBL-XOVER	20.0	60.0	20.0	100.0	No	20'-0"	
1188+52.54	1189+86.34	NBL-XOVER	20.0	122.5	20.0	162.5	No	20'-0"	
1232+46.60	1236+96.60	NBL	20.0	410.0	20.0	450.0	No	24'-0"	
1248+10.38	1252+35.38	NBL	20.0	385.0	20.0	425.0	No	24'-0"	
1146+81.43	1152+28.51	NBL-XOVER	20.0	522.5	20.0	562.5	No	20'-0"	STG 3A
1187+24.26	1189+90.05	NBL-XOVER	20.0	235.0	20.0	275.0	No	20'-0"	
1142+96.10	1195+71.10	NBL	200.0	5055.0	20.0	5275.0	No	29'-0"	STG 4
1151+20.53	1154+20.53	NBL	20.0	260.0	20.0	300.0	No	14'-0"	STG 5
1185+94.59	1189+44.59	NBL	20.0	310.0	20.0	350.0	No	14'-0"	

TEMPORARY CONCRETE BARRIER LAYOUT for One-Way Traffic





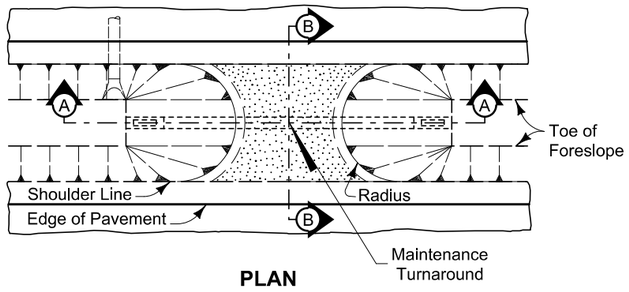


4315
04-15-08

① Flowable Mortar.
② Granular Backfill.
③ 4″ subdrain at flowline elevation of culvert shall be extended into the culvert a distance of 2′ plus the height of the culvert. Granular Backfill covers subdrain and extends an additional 2′. Subdrain and granular backfill are incidental to flowable mortar.
④ Ends of culvert shall be plugged sufficiently to retain flowable mortar. Temporary earth berms are incidental to flowable mortar.
⑤ Removal of headwalls may be required.
⑥ Outlet shall be filled first. See injection point detail for additional information.

DETAILS OF CULVERT ABANDONMENT WITH FLOWABLE MORTAR
(Rectangular structures less than 8′ in either height or width. Circular structures less than 10′ Dia.)

8101
04-21-15



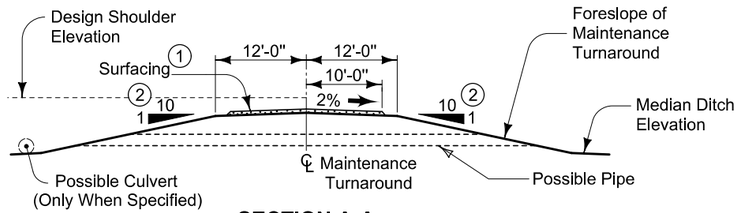
PLAN

① Surfacing quantities based on a 6 inch layer of Macadam Stone base and a 4 inch layer of Class 'A' Road Stone. Apply surfacing as directed by the Engineer.

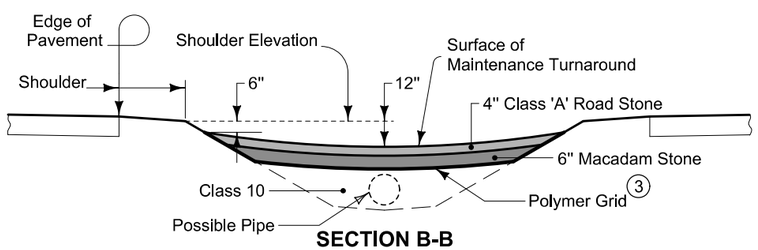
② Construct 8:1 foreslope when drainage pipe is incorporated into the maintenance turnaround.

③ Install Polymer Grid between Class 10 and stone material.

④ See Standard Road Plan DR-212.



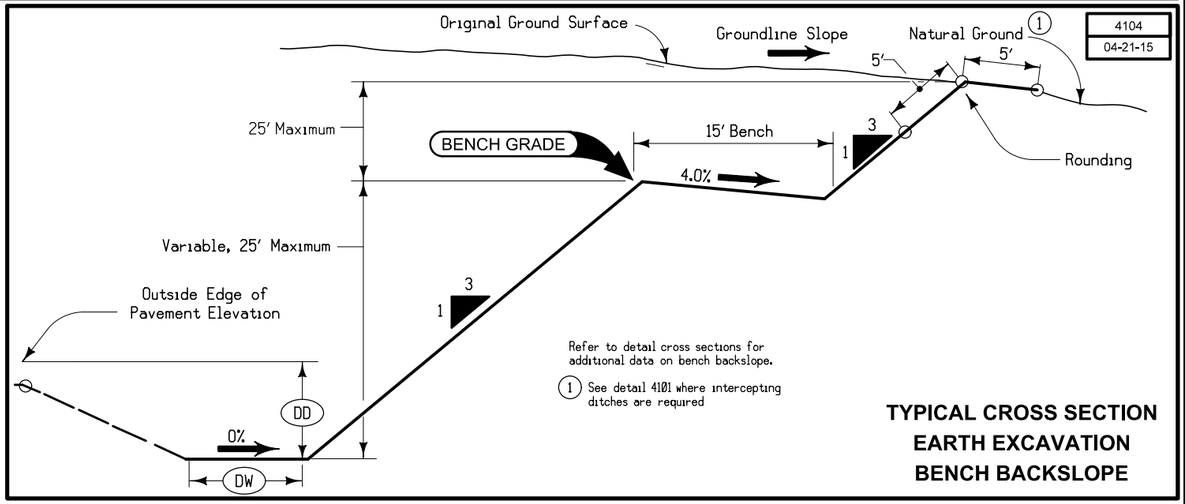
SECTION A-A



SECTION B-B

MAINTENANCE TURNAROUND

Location		Class 'A' Road Stone	Macadam Stone	Polymer Grid	Class 10	Pipe Length	Beveled Pipe & Guard ④	Radius	Remarks
Road Identification	Station	TONS	TONS	SY	CY	LF	EACH	FT	
I-35	x	x	x	x	x	-	-	x	
I-35	x	x	x	x	x	-	-	x	



4104
04-21-15

TYPICAL CROSS SECTION EARTH EXCAVATION BENCH BACKSLOPE

104-3
10-17-17

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe
(3) Backfill according to DR-101

Drainage Area	Location	Type	Size [1]	Kind Of Pipe [2]	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft.				Skew Ahead Degrees		Dike				Class 20	Flowable Mortar	Floodable* Backfill	Porous* Backfill	Flooded Backfill [3]	Remarks
																									Total		Extensions				Rt.									
ACRE			IN		LF		FT	FT	LT	RT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.	Location Station	Top Elevation	Type	CY	CY	(A) CY	(B) CY	(A+B) CY	
13.0	1089+35.26	DR-621	36	RCP	8	B	4.7	0.08		1	1						C-1	1 3			UAC	844.75	844.48		UAC	68.9	8.0		15											
7.5	1100+51.59	DR-621	24	RCP	8	B				1	1						C-1	1 3			UAC	856.35	856.06		UAC	50.0	8.0													
17.0	1108+95.29	DR-621	36	RCP	8	B				1	1						C-1	1 3			UAC	854.30	854.05		UAC	59.2	8.0	15												
67.0	1114+81.44	DR-621	60	RCP	8	B				1	1						C-1	1 3			UAC	853.25	852.92		UAC	74.9	8.0		29											
10.5	1129+53.96	DR-621	30	RCP	8	B				1	1						C-1	1 3			UAC	898.35	898.13		UAC	64.8	8.0		30	RT	1129+63.00	889.85	M							
48.0	1143+22.34	DR-621	60	RCP	34	B	9.0	0.17		1	1						C-2	1 3			UAC	901.80	901.60		UAC	109.8	34.0		29											
55.0	1202+49.29	DR-621	48	RCP	8	B				1	1						C-1	1 3			UAC	950.80	950.50		UAC	66.7	8.0													
31.0	1213+98.82	DR-621	36	RCP	8	B											C-1	1 3			UAC	961.90	962.00		UAC	55.2	8.0													
31.0	1214+08.00	DR-621	36	RCP	8	B											C-1	1 3			UAC	962.00	962.35		UAC	56.0	8.0													
116.0	1221+66.42	DR-621	72	RCP	20	B				1							C-2	1 3			UAC	959.30	959.77		UAC	69.2	20.0													
12.0	1232+74.20	DR-621	30	RCP	12	B											C-1	1 3			UAC	973.10	973.30		UAC	52.9	12.0													
9.0	1256+11.23	DR-621	24	RCP	18	B				1							C-1	1 3			UAC	969.30	969.54		UAC	99.2	18.0		30											Clean out pip
4.0	1258+05.19	DR-621	24	RCP	22	B				1							C-1	1 3			UAC	972.50	972.73		UAC	71.9	22.0													Clean out pip

110-2
04-16-13

REMOVAL OF EXISTING STRUCTURES

Location	Description	Remarks
1143+22.34	5' x 4' RCB	Remove headwalls RT
1221+66.42	6' x 5' RCB	Remove headwalls RT

108-30
04-16-13

CRASH CUSHIONS

* Bid Item
[1] Lane(s) to which the installation is adjacent.
[2] Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-500

No.	Direction of Traffic [1]	Location Station	Side	Obstacle Width	Crash Cushion (Select One)*					Sand Barrel Details [2]					Earthwork*		Spare Parts Kit (Select One)*		Obstacle Description	Remarks
					Temporary	Temporary Redirective	Temporary Severe Use	Permanent	Permanent Severe Use	V	W	X	Y	Z	Excavation Class 10	Embankment in Place	Permanent	Permanent Severe Use		
										Length	Length	Length	Length	Length						
				FT						FT	FT	FT	FT	FT	CY	CY	EACH	EACH		
1	NB	1145+35.83	LT	1.88			1												Temporary Barrier Rail	Stage 2
2	SB	1268+25.12	LT	1.88			1												Temporary Barrier Rail	Stage 2
3	NB	1264+90.50	LT	1.88			1												Temporary Barrier Rail	Stage 2
4	NB	1146+73.92	RT	1.88			1												Temporary Barrier Rail	Stage 3 - Exit Ramp
5	NB	1149+97.56	LT	1.88			1												Temporary Barrier Rail	Stage 3 - Exit Ramp
6	NB	1167+68.01	RT	1.88			1												Temporary Barrier Rail	Stage 3 & 3A
7	NB	1187+20.20	LT	1.88			1												Temporary Barrier Rail	Stage 3 - Entrance Ramp
8	NB	1188+52.54	RT	1.88			1												Temporary Barrier Rail	Stage 3 - Entrance Ramp
9	NB	1232+46.60	RT	1.88			1												Temporary Barrier Rail	Stage 3 & 3A
10	NB	1248+10.38	RT	1.88			1												Temporary Barrier Rail	Stage 3 & 3A
11	SB	1269+05.14	LT	1.88			1												Temporary Barrier Rail	Stage 3 & 3A
12	NB	1146+81.43	RT	1.88			1												Temporary Barrier Rail	Stage 3A - Exit Ramp
13	NB	1187+24.26	LT	1.88			1												Temporary Barrier Rail	Stage 3A - Entrance Ramp
14	NB	1142+96.10	LT	1.88			1												Temporary Barrier Rail	Stage 4
15	NB	1151+20.53	RT	1.88			1												Temporary Barrier Rail	Stage 5
16	NB	1185+94.59	RT	1.88			1												Temporary Barrier Rail	Stage 5

MEDIAN CROSSOVERS

Refer to PV-500 Series.

* Not a bid item

Road Ident.	Location Station	Standard Road Plan	Detour Pavement	Special Backfill	Granular Shoulder	Embankment in Place	Class 10 Excavation	Class 13 Excavation	Removal of Pavement	Saw Cut*	18" CMP Roadway Pipe	36" CMP Slotted Drain/ 6" Grate	Beveled Pipe and Guard	Remarks
		No.	SY	TON	TON	CY	CY	CY	SY	LF	LF	LF	No.	
I-35	1267+37.00		2103.7	796.9	158.2						165.8	153.7	2	North Xover. See U.2. Shoulders tabbed in 112-9.
	1146+38.82		6266.2	1973.9	0.0						38.4	610.0	2	South ramp Xover. See U.1
	1186+83.77		8559.2	2696.1	0.0						38.4	815.0	2	North ramp Xover. See U.1 - U.2

SHOULDERS

1 Lane(s) to which the shoulder is adjacent.
2 See Typ. 7156, 7157, or 7158.
3 Bid Item.
4 Applies only for Paved Shoulders constructed on project with existing granular shoulders.
5 Bid Item. Typ. 7156, 7157, or 7158.
6 Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 147, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Location					Quantities																		
Road Identification	(1) Direction Of Traffic	Station to Station		Side	(P) Width	(P_{SG}) Width	(G) Width	(L) Length	(4) Class 13 Excavation	Hot Mix Asphalt		Binder	Paved Shoulder	" Paved Shoulder at Guardrail	Reinf. Paved Shoulder	Special Backfill				Granular Subbase	Granular Shoulder		Earth Shoulder Construction Alternates			Remarks
																HMA Alternate		PCC Alternate							
					FT	FT (2)	FT	FT	CY (3)	TON	TON/STA	TONS	SY (3)	SY (5)	SY (3)	TON [3]	TON/STA	TON [3]	TON/STA	SY [3]	TON [3]	TON/STA	STA [3]	HMA CY [6]	PCC CY [6]	
I-35	NB	1078+85.00	1148+01.40	RT				6916.4															69.2			
		1148+01.40	1148+91.12	RT	12 to 6			89.7					89.7					28.262	31.500				0.9			11.5" PCC
		1148+91.12	1154+01.40	RT	6.0			510.3					340.2					107.159	21.000				5.1			
		1154+01.40	1171+37.57	RT				1736.2															17.4			
		1171+37.57	1171+87.57	RT	5.0			50.0					27.8					8.750	17.500				0.5			
		1171+87.57	1172+50.56	RT	5.5			63.0					38.5					12.126	19.250				0.6			
		1172+50.56	1173+00.56	RT	5.0			50.0					27.8					8.750	17.500				0.5			
		1173+00.56	1186+93.78	RT				1393.2															13.9			
		1186+96.94	1196+23.78	RT	6.0			926.8					617.9					194.636	21.000				9.3			
		1196+23.78	1199+23.78	RT	6 to 12			300.0					300.0					94.500	31.500				3.0			
		1199+23.78	1235+98.54	RT				3674.8															36.7			
		1235+98.54	1236+48.54	RT	5.0			50.0					27.8					8.750	17.500				0.5			
		1236+48.54	1236+91.71	RT	5.5			43.2					26.4					8.310	19.250				0.4			
		1236+91.71	1237+41.71	RT	5.0			50.0					27.8					8.750	17.500				0.5			
		1237+41.71	1251+50.00	RT				1408.3															14.1			
		1251+50.00	1252+00.00	RT	5.0			50.0					27.8					8.750	17.500				0.5			
		1252+00.00	1252+58.24	RT	5.5			58.2					35.6					11.211	19.250				0.6			
		1252+58.24	1253+08.24	RT	5.0			50.0					27.8					8.750	17.500				0.5			
		1253+08.24	1265+00.00	RT				1191.8															11.9			
	NB	1078+85.00	1265+00.00	LT	12.0			18615.0					24820.0					7818.300	42.000				186.2			
I-35	SB	1074+21.37	1266+07.87	RT	12.0			19186.5					25582.0							31977.5			191.9			11" PCC
Ramp B	NB			LT	6.0			43.3					28.9										0.4			
				RT	4.0			43.3					19.2										0.4			
Median Crossover	NB	1261+88.36	1267+85.90	RT			3.0	597.5													83.650	13.999	6.0			
		1266+07.92	1271+39.95	LT			3.0	532.0													74.500	14.003	5.3			
EX I-35	NB	1137+50.00	1147+78.83	RT	10.0			1028.8					1143.1							1486.1			10.3			11" PCC
		1154+41.31	1186+83.75	RT	10.0			3242.4					3602.7							4683.5			32.4			
		1198+38.46	1203+50.00	RT	10.0			511.5					568.4							738.9			5.1			

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25 DCY4: Double Centerline (Yellow) @ 2.00 NPY4: No Passing Zone Line (Yellow) @ 1.25 BLW4: Broken Lane Line (White) @ 0.25 ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00 DLW4: Dotted Line (White) @ 0.33 RLW4: Ramp Edge Line Right (White) @ 1.00 CHW8: Channelizing Line (White) @ 2.00 SLW4: Solid Lane Line (White) @ 1.00
YLW2: Yield Line (White) @ 1.71

Location								Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	DLW4	RLW4	CHW8	SLW4	YLW2				
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
I-35	1142+20.00	1148+33.20	NB	Removal of Paint	X	X	X				6.13	6.13	6.13									Stage 2 Lane Redirection
I-35	1148+33.20	1150+26.00	NB	Removal of Paint	X	X	X				1.93		1.93	1.93								Stage 2 Lane Redirection
I-35	1150+26.00	1154+41.31	NB	Removal of Paint	X	X	X				4.15		4.15			4.15						Stage 2 Lane Redirection
I-35	1148+33.20	1154+41.31	NB	Removal of Paint			X								6.08							Stage 2 Lane Redirection
I-35	1150+26.00	1154+41.31	NB	Removal of Paint	X											4.15						Stage 2 Lane Redirection
I-35	1154+41.31	1186+83.75	NB	Removal of Paint	X	X	X				32.42	32.42	32.42									Stage 2 Lane Redirection
I-35	1186+83.75	1190+90.34	NB	Removal of Paint	X	X	X				4.07		4.07			4.07						Stage 2 Lane Redirection
I-35	1190+90.34	1197+82.00	NB	Removal of Paint	X	X					6.92		6.92									Stage 2 Lane Redirection
I-35	1186+83.75	1191+20.00	NB	Removal of Paint	X											4.36						Stage 2 Lane Redirection
I-35	1186+83.75	1197+82.00	NB	Removal of Paint			X								10.98							Stage 2 Lane Redirection
I-35	1197+82.00	1198+80.00	NB	Removal of Paint	X	X	X				0.98	0.98	0.98									Stage 2 Lane Redirection
I-35	1142+20.00	1145+70.00	NB	Waterborne/Solvent Paint	X	X	X					3.50	3.50			3.50						Stage 2 Lane Redirection
I-35	1145+70.00	1149+19.50	NB	Waterborne/Solvent Paint	X	X	X				3.50	3.50	3.50									Stage 2 Lane Redirection
I-35	1149+19.50	1151+07.00	NB	Waterborne/Solvent Paint	X	X	X				1.88		1.88	1.88								Stage 2 Lane Redirection
I-35	1151+07.00	1154+41.31	NB	Waterborne/Solvent Paint	X	X	X				3.34		3.34			3.34						Stage 2 Lane Redirection
I-35	1149+19.50	1154+41.31	NB	Waterborne/Solvent Paint			X								5.22							Stage 2 Exit Ramp
I-35	1151+07.00	1154+41.31	NB	Waterborne/Solvent Paint	X											3.34						Stage 2 Exit Ramp
I-35	1154+41.31	1186+83.75	NB	Waterborne/Solvent Paint	X	X	X				32.42	32.42	32.42									Stage 2 Lane Redirection
I-35	1186+83.75	1188+80.50	NB	Waterborne/Solvent Paint	X	X	X				1.97		1.97			1.97						Stage 2 Lane Redirection
I-35	1188+80.50	1195+30.00	NB	Waterborne/Solvent Paint	X	X					6.50		6.50									Stage 2 Lane Redirection
I-35	1186+83.75	1188+80.50	NB	Waterborne/Solvent Paint	X											1.97						Stage 2 Entrance Ramp
I-35	1186+83.75	1195+30.00	NB	Waterborne/Solvent Paint			X								8.46							Stage 2 Entrance Ramp
I-35	1195+30.00	1198+80.00	NB	Waterborne/Solvent Paint	X	X	X					3.50	3.50			3.50						Stage 2 Lane Redirection
I-35	1072+42.84	1143+87.61	SB	Removal of Paint	X	X	X				71.45	71.45	71.45									Stage 3 Removals
I-35	1143+87.61	1153+45.00	SB	Removal of Paint	X	X					9.57		9.57									Stage 3 Removals
I-35	1153+45.00	1157+14.00	SB	Removal of Paint	X	X	X				3.73		3.73			3.73						Stage 3 Removals
I-35	1143+87.61	1157+14.00	SB	Removal of Paint			X								13.26							Stage 3 Removals
I-35	1153+41.27	1157+14.00	SB	Removal of Paint	X											3.73						Stage 3 Removals
I-35	1157+14.00	1189+46.50	SB	Removal of Paint	X	X	X				32.33	32.33	32.33									Stage 3 Removals
I-35	1189+46.50	1193+09.00	SB	Removal of Paint	X	X	X				3.63		3.63			3.63						Stage 3 Removals
I-35	1193+09.00	1194+98.00	SB	Removal of Paint	X	X	X				1.89		1.89	1.89								Stage 3 Removals
I-35	1189+46.50	1193+09.00	SB	Removal of Paint	X											3.63						Stage 3 Removals
I-35	1189+46.50	1194+98.00	SB	Removal of Paint			X								5.52							Stage 3 Removals
I-35	1194+98.00	1265+11.00	SB	Removal of Paint	X	X	X				69.87	69.87	69.87									Stage 3 Removals
I-35	1265+11.00	1272+83.58	SB	Removal of Paint	X	X	X				15.46	7.73	7.73									Stage 3 Removals
I-35	1265+00.00	1274+81.56	NB	Removal of Paint	X	X	X				19.63	9.82	9.82									Stage 3 Removals
I-35	1072+42.84	1152+28.66	SB	Waterborne/Solvent Paint	X	X	X				79.86	79.86	79.86									Stage 3 Temporary Markings
I-35	1152+28.66	1156+02.65	SB	Waterborne/Solvent Paint	X	X					3.74		3.74									Stage 3 Temporary Markings
I-35	1156+02.65	1157+14.00	SB	Waterborne/Solvent Paint	X	X	X				1.11		1.11			1.11						Stage 3 Temporary Markings
I-35	1152+28.66	1157+14.00	SB	Waterborne/Solvent Paint			X								4.85							Stage 3 Temporary Markings
I-35	1156+02.65	1157+14.00	SB	Waterborne/Solvent Paint	X											1.11						Stage 3 Temporary Markings
I-35	1157+14.00	1189+46.50	SB	Waterborne/Solvent Paint	X	X	X				32.33	32.33	32.33									Stage 3 Temporary Markings
I-35	1189+46.50	1192+16.21	SB	Waterborne/Solvent Paint	X	X	X				2.70		2.70			2.70						Stage 3 Temporary Markings
I-35	1192+16.21	1194+30.98	SB	Waterborne/Solvent Paint	X	X	X				2.15		2.15	2.15								Stage 3 Temporary Markings
I-35	1189+46.50	1192+16.21	SB	Waterborne/Solvent Paint	X											2.70						Stage 3 Temporary Markings
I-35	1189+46.50	1194+30.98	SB	Waterborne/Solvent Paint			X								4.84							Stage 3 Temporary Markings
I-35	1194+30.98	1272+83.58	SB	Waterborne/Solvent Paint	X	X	X				78.53	78.53	78.53									Stage 3 Temporary Markings
I-35	1072+42.84	1140+91.00	NB	Waterborne/Solvent Paint	X	X	X				68.48	68.48	68.48									Stage 3 Temporary Markings
I-35	1140+91.00	1142+71.15	NB	Waterborne/Solvent Paint	X	X	X				1.80		1.80	1.80								Stage 3 Temporary Markings
I-35	1142+71.15	1146+56.84	NB	Waterborne/Solvent Paint	X	X	X				3.86		3.86				3.86					Stage 3 Temporary Markings
I-35	1140+91.00	1154+43.00	NB	Waterborne/Solvent Paint			X									13.52						Stage 3 Exit Ramp
I-35	1146+56.84	1154+43.00	NB	Waterborne/Solvent Paint	X											7.86						Stage 3 Exit Ramp
I-35	1146+56.84	1191+28.94	NB	Waterborne/Solvent Paint	X	X	X				44.72	44.72	44.72									Stage 3 Temporary Markings
I-35	1191+28.94	1200+29.50	NB	Waterborne/Solvent Paint	X	X	X				9.01		9.01	9.01								Stage 3 Temporary Markings
I-35	1186+83.75	1190+63.03	NB	Waterborne/Solvent Paint	X											3.79						Stage 3 Entrance Ramp
I-35	1186+83.75	1200+29.75	NB	Waterborne/Solvent Paint			X									13.46						Stage 3 Entrance Ramp
I-35	1190+63.04	1190+65.79	NB	Waterborne/Solvent Paint	X	X	X											0.20				Stage 3 Entrance Ramp
I-35	1200+29.75	1260+00.00	NB	Waterborne/Solvent Paint	X	X	X				59.70	59.70	59.70									Stage 3 Temporary Markings
I-35	1260+00.00	1274+81.56	NB	Waterborne/Solvent Paint	X	X	X					14.82	14.82			14.82						Stage 3 Temporary Markings
I-35	1146+56.84	1150+50.09	NB	Removal of Paint			X					3.93										Stage 3A Removals
I-35	1146+22.00	1154+43.00	NB	Removal of Paint			X									8.21						Stage 3A Removals
I-35	1146+56.84	1154+43.00	NB	Removal of Paint	X											7.86						Stage 3A Removals
I-35	1146+56.84	1150+50.09	NB	Waterborne/Solvent Paint			X										3.93					Stage 3A Exit Ramp
I-35	1146+22.00	1150+27.83	NB	Waterborne/Solvent Paint			X					4.06										Stage 3A Exit Ramp
I-35	1150+27.83	1154+43.00	NB	Waterborne/Solvent Paint			X									4.15						Stage 3A Exit Ramp
I-35	1150+50.09	1154+43.00	NB	Waterborne/Solvent Paint	X											3.93						Stage 3A Exit Ramp
I-35	1191+29.03	1193+57.22	NB	Removal of Paint			X							2.28								Stage 3A Removals
I-35	1186+83.75	1190+63.03	NB	Removal of Paint	X											3.79						Stage 3A Removals
I-35	1186+83.75	1193+45.34	NB	Removal of Paint			X									6.62						Stage 3A Removals
I-35	1190+63.04	1190+65.79	NB	Removal of Paint	X	X	X											0.20				Stage 3A Removals
I-35	1191+29.03	1193+57.22	NB	Waterborne/Solvent Paint			X					2.28										Stage 3A Entrance Ramp
I-35	1186+83.75	1192+85.71	NB	Waterborne/Solvent Paint	X											6.02						Stage 3A Entrance Ramp
I-35	1186+83.75	1193+45.34	NB	Waterborne/Solvent Paint			X									6.62						Stage 3A Entrance Ramp
I-35	1192+85.71	1192+92.01	NB	Waterborne/Solvent Paint	X	X	X											0.20				Stage 3A Entrance Ramp
I-35	1072+42.84	1140+91.00	NB	Removal of Paint	X	X	X				68.48	68.48	68.48									Stage 4 Removals
I-35	1140+91.00	1142+71.15	NB	Removal of Paint	X	X	X				1.80		1.80	1.80								Stage 4 Removals

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25
DCY4: Double Centerline (Yellow) @ 2.00
NPY4: No Passing Zone Line (Yellow) @ 1.25
BLW4: Broken Lane Line (White) @ 0.25
ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00
DLW4: Dotted Line (White) @ 0.33
RLW4: Ramp Edge Line Right (White) @ 1.00
CHW8: Channelizing Line (White) @ 2.00
SLW4: Solid Lane Line (White) @ 1.00
YLW2: Yield Line (White) @ 1.71

Location								Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	DLW4	RLW4	CHW8	SLW4	YLW2				
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
I-35	1142+71.15	1150+50.09	NB	Removal of Paint	X	X	X				7.79		7.79				7.79					Stage 4 Removals
I-35	1140+91.00	1141+91.07	NB	Removal of Paint			X					1.00										Stage 4 Exit Removals
I-35	1150+50.09	1150+89.21	NB	Removal of Paint	X											0.39						Stage 4 Exit Removals
I-35	1151+91.83	1154+43.00	NB	Removal of Paint			X									2.51						Stage 4 Exit Removals
I-35	1152+30.22	1154+43.00	NB	Removal of Paint	X											2.13						Stage 4 Exit Removals
I-35	1150+50.09	1193+46.32	NB	Removal of Paint	X	X	X				42.96	42.96	42.96									Stage 4 Removals
I-35	1193+46.32	1200+29.50	NB	Removal of Paint	X	X	X				6.83		6.83	6.83								Stage 4 Removals
I-35	1186+83.75	1190+90.00	NB	Removal of Paint	X											4.06						Stage 4 Entrance Removals
I-35	1186+83.75	1191+35.59	NB	Removal of Paint			X									4.52						Stage 4 Entrance Removals
I-35	1192+68.19	1192+85.71	NB	Removal of Paint	X											0.18						Stage 4 Entrance Removals
I-35	1199+12.98	1200+29.50	NB	Removal of Paint			X									1.17						Stage 4 Entrance Removals
I-35	1192+85.71	1192+86.87	NB	Removal of Paint	X	X	X											0.04				Stage 4 Entrance Removals
I-35	1200+29.50	1260+00.00	NB	Removal of Paint	X	X	X				59.71	59.71	59.71									Stage 4 Removals
I-35	1260+00.00	1261+64.84	NB	Removal of Paint	X	X	X					1.65	1.65			1.65						Stage 4 Removals
I-35	1261+64.84	1263+63.81	NB	Removal of Paint	X	X							1.99			1.99						Stage 4 Removals
I-35	1263+63.81	1265+21.16	NB	Removal of Paint	X								1.57									Stage 4 Removals
I-35	1268+69.99	1270+02.63	NB	Removal of Paint			X					1.33										Stage 4 Removals
I-35	1270+02.63	1271+53.43	NB	Removal of Paint		X	X					1.51				1.51						Stage 4 Removals
I-35	1271+53.43	1274+81.56	NB	Removal of Paint	X	X	X					3.28	3.28			3.28						Stage 4 Removals
I-35	1072+42.84	1152+28.66	SB	Removal of Paint	X	X	X				79.86	79.86	79.86									Stage 4 Removals
I-35	1152+28.66	1156+02.65	SB	Removal of Paint	X	X					3.74		3.74									Stage 4 Removals
I-35	1156+02.65	1157+14.00	SB	Removal of Paint	X	X	X				1.11		1.11			1.11						Stage 4 Removals
I-35	1152+28.66	1157+14.00	SB	Removal of Paint			X								4.85							Stage 4 Removals
I-35	1156+02.65	1157+14.00	SB	Removal of Paint	X											1.11						Stage 4 Removals
I-35	1157+14.00	1189+46.50	SB	Removal of Paint	X	X	X				32.33	32.33	32.33									Stage 4 Removals
I-35	1189+46.50	1192+16.21	SB	Removal of Paint	X	X	X				2.70		2.70			2.70						Stage 4 Removals
I-35	1192+16.21	1194+30.98	SB	Removal of Paint	X	X	X				2.15		2.15	2.15								Stage 4 Removals
I-35	1189+46.50	1192+16.21	SB	Removal of Paint	X											2.70						Stage 4 Removals
I-35	1189+46.50	1194+30.98	SB	Removal of Paint			X								4.84							Stage 4 Removals
I-35	1194+30.98	1272+83.58	SB	Removal of Paint	X	X	X				78.53	78.53	78.53									Stage 4 Removals
I-35	1078+85.00	1143+69.77	NB	Durable Paint	X	X	X				64.85	64.85	64.85									Stage 4 Permanent Markings
I-35	1143+69.77	1148+66.38	NB	Waterborne/Solvent Paint	X	X	X				4.97	4.97	4.97									Stage 4 Temporary Markings
I-35	1148+66.38	1150+51.00	NB	Waterborne/Solvent Paint	X	X	X				1.85		1.85	1.85								Stage 4 Temporary Markings
I-35	1150+51.00	1154+43.00	NB	Waterborne/Solvent Paint	X	X	X				3.92		3.92			3.92						Stage 4 Temporary Markings
I-35	1148+66.38	1154+43.00	NB	Waterborne/Solvent Paint			X								5.77							Stage 4 Temp. Exit Ramp
I-35	1150+51.00	1154+43.00	NB	Waterborne/Solvent Paint	X											3.92						Stage 4 Temp. Exit Ramp
I-35	1154+43.00	1186+83.79	NB	Waterborne/Solvent Paint	X	X	X				32.41	32.41	32.41									Stage 4 Temporary Markings
I-35	1186+83.79	1190+26.04	NB	Waterborne/Solvent Paint	X	X	X				3.42		3.42			3.42						Stage 4 Temporary Markings
I-35	1190+26.04	1196+88.62	NB	Waterborne/Solvent Paint	X	X					6.63		6.63									Stage 4 Temporary Markings
I-35	1186+83.79	1190+26.04	NB	Waterborne/Solvent Paint	X											3.42						Stage 4 Temp. Entrance Ramp
I-35	1186+83.79	1196+88.62	NB	Waterborne/Solvent Paint			X								10.05							Stage 4 Temp. Entrance Ramp
I-35	1196+88.62	1197+63.78	NB	Waterborne/Solvent Paint	X	X	X				0.75	0.75	0.75									Stage 4 Temporary Markings
I-35	1197+63.78	1266+80.00	NB	Durable Paint	X	X	X				69.16	69.16	69.16									Stage 4 Permanent Markings
I-35	1266+80.00	1274+81.56	NB	Durable Paint	X	X	X				16.03	8.02	8.02									Stage 4 Permanent Markings
I-35	1072+42.84	1143+95.15	SB	Durable Paint	X	X	X				143.04	71.52	71.52									Stage 4 Permanent Markings
I-35	1143+95.15	1153+51.95	SB	Durable Paint	X	X					19.14		9.57									Stage 4 Permanent Markings
I-35	1153+51.95	1157+14.00	SB	Durable Paint	X	X	X				7.24		3.62			3.62						Stage 4 Permanent Markings
I-35	1143+95.15	1157+14.00	SB	Durable Paint			X								13.19							Stage 4 Perm. Entrance Ramp
I-35	1153+51.95	1157+14.00	SB	Durable Paint	X											3.62						Stage 4 Perm. Entrance Ramp
I-35	1157+14.00	1189+46.50	SB	Durable Paint	X	X	X				64.66	32.33	32.33									Stage 4 Permanent Markings
I-35	1189+46.50	1192+93.10	SB	Durable Paint	X	X	X				6.94		3.47			3.47						Stage 4 Permanent Markings
I-35	1192+93.10	1195+00.56	SB	Durable Paint	X	X	X				4.14		2.07	2.07								Stage 4 Permanent Markings
I-35	1189+46.50	1192+93.10	SB	Durable Paint	X											3.47						Stage 4 Perm. Exit Ramp
I-35	1189+46.50	1195+00.56	SB	Durable Paint			X								5.54							Stage 4 Perm. Exit Ramp
I-35	1195+00.56	1272+83.58	SB	Durable Paint	X	X	X				155.66	77.83	77.83									Stage 4 Permanent Markings
I-35	1143+69.77	1148+66.38	NB	Removal of Paint	X	X	X				4.97	4.97	4.97									Stage 5 Removals
I-35	1148+66.38	1150+51.00	NB	Removal of Paint	X	X	X				1.85		1.85	1.85								Stage 5 Removals
I-35	1150+51.00	1154+43.00	NB	Removal of Paint	X	X	X				3.92		3.92			3.92						Stage 5 Removals
I-35	1148+66.38	1154+43.00	NB	Removal of Paint			X								5.77							Stage 5 Removals
I-35	1150+51.00	1154+43.00	NB	Removal of Paint	X											3.92						Stage 5 Removals
I-35	1154+43.00	1186+83.79	NB	Removal of Paint	X	X	X				32.41	32.41	32.41									Stage 5 Removals
I-35	1186+83.79	1190+26.04	NB	Removal of Paint	X	X	X				3.42		3.42			3.42						Stage 5 Removals
I-35	1190+26.04	1196+88.62	NB	Removal of Paint	X	X					6.63		6.63									Stage 5 Removals
I-35	1186+83.79	1190+26.04	NB	Removal of Paint	X											3.42						Stage 5 Removals
I-35	1186+83.79	1196+88.62	NB	Removal of Paint			X								10.05							Stage 5 Removals
I-35	1196+88.62	1197+63.78	NB	Removal of Paint	X	X	X				0.75	0.75	0.75									Stage 5 Removals
I-35	1143+69.77	1197+63.78	NB	Waterborne/Solvent Paint	X		X						53.94			53.94						Stage 5 Temporary Markings
I-35	1143+69.77	1197+63.78	NB	Removal of Paint	X		X						53.94			53.94						Following Stage 5
I-35	1143+69.77	1148+66.38	NB	Durable Paint	X	X	X				4.97	4.97	4.97									Following Stage 5 - Perm.
I-35	1148+66.38	1150+51.00	NB	Durable Paint	X	X	X				1.85		1.85	1.85								Following Stage 5 - Perm.
I-35	1150+51.00	1154+43.00	NB	Durable Paint	X	X	X				3.92		3.92			3.92						Following Stage 5 - Perm.
I-35	1148+66.38	1154+43.00	NB	Durable Paint			X								5.77							Following Stage 5 - Perm.
I-35	1150+51.00	1154+43.00	NB	Durable Paint	X											3.92						Following Stage 5 - Perm.
I-35	1154+43.00	1186+83.79	NB	Durable Paint	X	X	X				32.41	32.41	32.41									Following Stage 5 - Perm.
I-35	1186+83.79	1190+26.04	NB	Durable Paint	X	X	X				3.42		3.42			3.42						Following Stage 5 - Perm.
I-35	1190+26.04	1196+88.62	NB	Durable Paint	X	X					6.63		6.63									Following Stage 5 - Perm.

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25
DCY4: Double Centerline (Yellow) @ 2.00
NPY4: No Passing Zone Line (Yellow) @ 1.25
BLW4: Broken Lane Line (White) @ 0.25
ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00
DLW4: Dotted Line (White) @ 0.33
RLW4: Ramp Edge Line Right (White) @ 1.00
CHW8: Channelizing Line (White) @ 2.00
SLW4: Solid Lane Line (White) @ 1.00
YLW2: Yield Line (White) @ 1.71

Location								Length by Line Type (Unfactored)													Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side L	Side C	Side R	BCY4* STA	DCY4 STA	NPY4** STA	BLW4 STA	ELW4 STA	ELY4 STA	DLW4 STA	RLW4 STA	CHW8 STA	SLW4 STA	YLW2 STA	STA	STA	STA	STA	
I-35	1186+83.79	1190+26.04	NB	Durable Paint	X											3.42							Following Stage 5 - Perm.
I-35	1186+83.79	1196+88.62	NB	Durable Paint			X								10.05								Following Stage 5 - Perm.
I-35	1196+88.62	1197+63.78	NB	Durable Paint	X	X	X				0.75	0.75	0.75										Following Stage 5 - Perm.
				Factored Total: Waterborne/Solvent Paint				-	-	-	122.88	465.82	567.29	5.56	39.19	336.04	7.79	0.68	-	-	-	-	
				Factored Total: Durable Paint				-	-	-	151.20	361.84	396.39	1.31	34.55	57.72	-	-	-	-	-	-	
				Factored Total: Removal of Paint				-	-	-	181.52	643.42	770.98	6.24	61.35	315.12	7.79	0.41	-	-	-	-	
				Bid Quantity: Painted Pavement Markings, Waterborne or Solvent-Based							1545.26												
				Bid Quantity: Painted Pavement Markings, Durable							1003.00												
				Bid Quantity: Pavement Markings Removed							1986.85												

TEMPORARY BARRIER RAIL

Possible Standard: BA-401 Possible Detail: 560-7

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

No.	Station to Station		Length	(Select One) Concrete	(Select One) Steel	Anchored*	Modular Glare Screen System	Remarks
			LF	BA-401	560-7	(Y/N)	(Y/N)	
1	1072+42.84	1268+25.12	19587.5	X		No	No	SBL Stage 2
2	1145+35.83	1195+98.33	5062.5	X		No	No	NBL Stage 2
3	1264+90.50	1272+40.50	750.0	X		No	No	NBL Stage 2
4	1072+42.84	1269+05.14	19662.5	X		No	No	SBL Stage 3 & 3A
5	1146+73.92	1148+03.85	150.0	X		No	No	Stage 3 - on xover
6	1149+97.56	1154+37.23	450.0	X		No	No	Stage 3 - xover and NBL
7	1167+68.01	1172+43.01	475.0	X		No	No	SBL Stage 3 & 3A
8	1187+20.20	1188+05.33	100.0	X		No	No	Stage 3 - xover and NBL
9	1188+52.54	1189+86.34	162.5	X		No	No	Stage 3 - xover and NBL
10	1232+46.60	1236+96.60	450.0	X		No	No	SBL Stage 3 & 3A
11	1248+10.38	1252+35.38	425.0	X		No	No	SBL Stage 3 & 3A
12	1146+81.43	1152+28.51	562.5	X		No	No	Stage 3A - on xover
13	1187+24.26	1189+90.05	275.0	X		No	No	Stage 3A - NBL taper
14	1142+96.10	1195+71.10	5275.0	X		No	No	NBL Stage 4
15	1151+20.53	1154+20.53	300.0	X		No	No	NBL Stage 5 - at taper
16	1185+94.59	1189+44.59	350.0	X		No	No	NBL Stage 5 - at taper

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
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.**	
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading
Red	(3)	Delineates Restricted Areas

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(10)	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

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.1	REVISED

9:17:03 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_Legend.dgn

INTERSTATE 35
NORTHBOUND LANES

SBL WIDENING CONSTRUCTED
WITH PROJECT IM-NHS-035-2(467)63--03-91

LINN TWN.
T-77N R-25W
SEC. 19

Δ = 00°52'19.42" (RT)
T = 300.01'
L = 600.00'
R = 39421.02'
E = 1.14'
e = NC
L = NC
x = NC

1075+00 | 1080+00 | 1085+00 | 1090+00 | 1095+00 | PT 1098+41.48 | 1100+00

Interstate 35

BEGIN NBL CONSTRUCTION
STA. 1078+85.00

Existing ROW

Sta. 1089+35.26
36" X 280.56' RCP
SKEW=15 RT AH

PC 1092+41.48

PI 1095+41.49

Sta. 1100+51.59
24" X 260.97' RCP

Sta. 1089+35.26
Proposed 36" x 8' RCP Extension + FES
Skew = 15° RT Ahead
F.L. Other = 844.48
F.L. RT = 844.75

0 100
FEET

Sta. 1100+51.59
Proposed 24" x 8' RCP Extension + FES
F.L. Other = 856.06
F.L. RT = 856.35

890 880 870 860 850 840 830 820

VPC = 1072+17.80
EL = 855.71

STA. 1078+85.00
ELEV. = 846.69
BEGIN CONSTRUCTION

VPT = 1080+17.80
EL = 847.52

Proposed Profile Grade

VPC = 1093+00.00
EL = 859.72

VPI = +00.00
EL = 861.62
L = 400.00'
K = 449

VPT = 1097+00.00
EL = 861.74

+0.95%
+0.06%

+0.72% RT Ditch Grade

-0.20% RT
Ditch Grade

+0.20% RT
Ditch Grade

RT +15
857.02

RT +51
856.35

Existing Ground Line

-3.00%
+0.95%

VPI = +17.80
EL = 843.71
L = 800.00'
K = 202

VLP = 1078+25.16
EL = 846.60

+1.25% RT Ditch Grade
+2.20% RT Ditch Grade
+0.90% RT Ditch Grade
-2.50% RT
Ditch Grade
+5.21% RT
Ditch Grade

RT +85
834.78

RT +50
838.09

RT +00
845.80

RT +00
848.50

RT +50
844.75

RT +00
852.57

Lt Med Rt

U.A.C.
U.A.C.
Ditch Grade

859.24 858.49 857.74 856.99 856.24 855.50 854.77 854.08 853.41 852.78 852.18 851.60 851.06 850.55 850.08 849.63 849.21 848.82 848.47 848.15 847.85 847.59 847.36 847.16 846.99 846.85 846.74 846.66 846.62 846.60 846.61 846.66 846.74 846.85 846.98 847.15 847.35 847.58 847.82 848.06 848.30 848.54 848.77 849.01 849.25 849.49 849.73 849.96 850.20 850.44 850.68 850.92 851.15 851.39 851.63 851.87 852.10 852.34 852.58 852.82 853.06 853.29 853.53 853.77 854.01 854.25 854.48 854.72 854.96 855.20 855.43 855.67 855.91 856.15 856.39 856.62 856.86 857.10 857.34 857.58 857.81 858.05 858.29 858.53 858.77 859.00 859.24 859.48 859.72 859.95 860.16 860.37 860.56 860.73 860.89 861.04 861.17 861.29 861.40 861.49 861.57 861.63 861.68 861.72 861.74 861.75 861.77 861.78 861.80 861.81 861.83 861.85 861.86 861.88 861.89 861.90 861.92 861.94 861.95 861.97 861.98

1075+00 | 1080+00 | 1085+00 | 1090+00 | 1095+00 | 1100+00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.2

9:17:24 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_D01toD08.dgn

LINN TWN.
T-77N R-25W
SEC. 19

LINN TWN.
T-77N R-25W
SEC. 18

1105+00 1110+00 1115+00 1120+00 1125+00 1130+00

Interstate 35

Existing ROW

Sta. 1108+95.29
36" X 266.37' RCP
SKEW=15 LT AH

Sta. 1108+95.29
Proposed 36" x 8' RCP Extension + FES
Skew = 15° LA
F.L. Other = 854.05
F.L. RT = 854.30

Sta. 1114+81.44
60" X 309.65' RCP
SKEW=29 RT AH

Sta. 1114+81.44
Proposed 60" x 8' RCP Extension + FES
Skew = 29° RT Ahead
F.L. Other = 852.92
F.L. RT = 853.25

Sta. 1129+53.96
30" X 277.36' RCP
30" X 46' CMP
SKEW=29 RT AH

Sta. 1129+53.96
Proposed 30" x 8' RCP Extension + FES
Skew = 30° RT Ahead
F.L. Other = 898.13
F.L. RT = 898.35

Sta. 1129+63.00
Type M Dike
Top Elev. =889.85

0 100 FEET

INTERSTATE 35
NORTHBOUND LANES

900 890 880 870 860 850 840 830

Existing Ground Line

Proposed Profile Grade

VPC = 1111+00.00
EL = 862.58

VPI = +00.00
EL = 862.76
L = 600.00'
K = 227

VPT = 1117+00.00
EL = 870.86

+0.06%

+2.70%

+0.20% RT Ditch Grade

-0.69% RT Ditch Grade

+0.81% RT Ditch Grade

-0.47% RT Ditch Grade

+1.94% RT Ditch Grade

+4.60% RT Ditch Grade

+3.53% RT Ditch Grade

RT +65
857.18

RT +82
854.30

RT +30
855.50

RT +13
853.25

RT +00
858.82

RT +00
881.82

RT +83
898.35

Lt — U.A.C.
Med — U.A.C.
Rt — Ditch Grade — 4' Ditch — Dike

861.98 861.99 862.01 862.02 862.04 862.05 862.07 862.08 862.10 862.11 862.13 862.14 862.16 862.17 862.19 862.20 862.22 862.24 862.25 862.26 862.28 862.29 862.31 862.33 862.34 862.35 862.37 862.38 862.40 862.41 862.43 862.44 862.46 862.47 862.49 862.50 862.52 862.53 862.55 862.56 862.58 862.61 862.67 862.75 862.86 863.00 863.17 863.36 863.58 863.83 864.11 864.41 864.74 865.10 865.49 865.90 866.34 866.81 867.31 867.83 868.38 868.96 869.57 870.20 870.86 871.54 872.21 872.89 873.56 874.24 874.91 875.59 876.26 876.94 877.61 878.29 878.96 879.64 880.31 880.99 881.66 882.34 883.01 883.69 884.36 885.04 885.71 886.39 887.06 887.74 888.41 889.09 889.76 890.44 891.11 891.79 892.46 893.14 893.81 894.49 895.16 895.84 896.51 897.19 897.86 898.54 899.21 899.89 900.56 901.24 901.91 902.59 903.26 903.94 904.61 905.29 905.96 906.64 907.31 907.99 908.66

1105+00 1110+00 1115+00 1120+00 1125+00 1130+00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.3

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Δ = 00°35'14.09" (RT)
T = 299.91'
L = 599.81'
R = 58522.03'
E = 0.77'
e = NC
L = NC
x = NC

Δ = 30°41'38.17" (RT)
T = 356.79'
L = 696.42'
R = 1300.00'
E = 48.07'

LINN TWN.
T-77N R-25W
SEC. 18

1135+00 | 1140+00 | 1145+00 | 1150+00 | 1155+00 | 1160+00

Interstate 35

PC 1132+92.04
PI 1135+91.95
PT 1138+91.85
POB 2546+13.92
PC 2554+94.99
PI 2558+51.77
2560+00

Sta. 1143+22.34
5' X 4' X 234.4' RCBC
60" X 142' RCP
SKEW=29 RT AH
Existing ROW

Sta. 1143+22.34
Proposed 60" x 34' RCP Extension + FES
Skew = 29° RT Ahead
F.L. Other = 901.60
F.L. RT = 901.80

Sta. 1141+00.00 SBL
Proposed 24" x 10' RCP Extension
F.L. Other = 918.05
F.L. RT = 918.21

STA: 1153+92.49, OFF: 57.91' RT (I-35)
= STA: 2554+44.31, OFF: 0.00' RT (Ramp B)
Point M on SRP PV-410

Ramp B

Sta. 1160+62.83
72" X 769.69' RCP
SKEW=15 RT AH
(U.A.C.)

PI 2561+33.03

STA. 256[illegible]
36" x [illegible]' RCP
(U.A.C.)

INTERSTATE 35
NORTHBOUND LANES

0 100
FEET

Refer to K sheets for Ramp Information
Refer to J sheets for Crossover Information

960 | 950 | 940 | 930 | 920 | 910 | 900 | 890

VPC = 1131+10.00
EL = 908.93

VPI = +25.00
EL = 917.44
L = 630.00'
K = 313

+2.70% | +0.69%

+3.53% RT Ditch Grade | +1.91% RT Ditch Grade

RT +00
906.00

RT +00
911.74

VPT = 1137+40.00
EL = 919.61

-0.20% RT Ditch Grade

RT +73
915.60

RT +00
914.94

-4.69% RT Ditch Grade

+1.00% RT Ditch Grade

RT +80
901.80

RT +85
901.85

+5.37% RT Ditch Grade

RT +00
918.75

+1.21% RT Ditch Grade

RT +00
923.58

VPC = 1159+80.00
EL = 935.06

Proposed Profile Grade

Existing Ground Line

Lt: U.A.C.
Med: U.A.C.
Rt: 4' Ditch | Ditch Grade | U.A.C. Existing Ditch

908.66 909.34 909.99 910.62 911.24 911.83 912.40 912.96 913.49 914.00 914.50 914.97 915.42 915.86 916.27 916.66 917.04 917.39 917.73 918.04 918.33 918.61 918.86 919.10 919.31 919.51 919.68 919.85 920.03 920.20 920.37 920.54 920.72 920.89 921.06 921.23 921.41 921.58 921.75 921.92 922.10 922.27 922.44 922.61 922.79 922.96 923.13 923.30 923.48 923.65 923.82 923.99 924.17 924.34 924.51 924.68 924.86 925.03 925.20 925.37 925.55 925.72 925.89 926.06 926.24 926.41 926.58 926.75 926.92 927.10 927.27 927.44 927.61 927.79 927.96 928.13 928.30 928.48 928.65 928.82 928.99 929.17 929.34 929.51 929.68 929.86 930.03 930.20 930.37 930.55 930.72 930.89 931.06 931.24 931.41 931.58 931.75 931.93 932.10 932.27 932.44 932.62 932.79 932.96 933.13 933.31 933.48 933.65 933.82 934.00 934.17 934.34 934.51 934.69 934.86 935.03 935.21 935.42 935.67 935.94 936.24

1135+00 | 1140+00 | 1145+00 | 1150+00 | 1155+00 | 1160+00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.4

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LINN TWN.
T-77N R-25W
SEC. 18

LINN TWN.
T-77N R-25W
SEC. 07

Δ = 26°03'06.38" (RT)
T = 462.69'
L = 909.38'
R = 2000.00'
E = 52.82'

1165+00 | 1170+00 | 1175+00 | 1180+00 | 1185+00 | 1190+00

Interstate 35

PI 4584+78.31
4585+00

4580+00

4575+00

HWY G14

2565+00

Ramp B

Δ = 30°41'38.17" (RT)
T = 356.79'
L = 696.42'
R = 1300.00'
E = 48.07'

STA. 2176+95.44
36" x 289.56' RCP
(U.A.C.)

Ramp D

PC 4580+15.62

STA: 1186+97.14, OFF: 49.62' RT (I-35)
= STA: 4586+96.34 (Ramp D)

Sta. 1188+02.59
42" X 477.52' RCP
SKEW=31 LT AH
(U.A.C.)

PT 4589+25.00

Existing ROW

4590+00

0 100 FEET

Refer to K sheets for Ramp Information

Refer to J sheets for Crossover Information

INTERSTATE 35
NORTHBOUND LANES

990 | 980 | 970 | 960 | 950 | 940 | 930 | 920

VPI = +27.34
EL = 981.45
L = 1100.00'
K = 327

+2.57% | -0.79%

VPC = 1173+77.34
EL = 967.31

VHP = 1182+18.37
EL = 978.12

VPT = 1184+77.34
EL = 977.09

Proposed Profile Grade

Existing Ground Line

VPT = 1163+70.00
EL = 941.42

+0.69% | +2.57%

VPI = +75.00
EL = 936.41
L = 390.00'
K = 207

+4.20% RT Ditch Grade

+0.50% RT Ditch Grade

+0.72% RT Ditch Grade

RT +50
923.32

RT +50
948.52

RT +55
963.12

RT +50
963.80

RT +50
970.74

RT +00
974.49

| Lt | U.A.C. | | |

Sta. 1201+42.00 SBL
Proposed 24" x 10' RCP Extension
F.L. Other = 959.57
F.L. RT = 960.34

LINN TWN.
T-77N R-25W
SEC. 07

1195+00 1200+00 1205+00 1210+00 1215+00 1220+00

Interstate 35

Existing ROW

Sta. 1194+43.88
30" X 275' RCP
SKEW=15 LT AH
(U.A.C.)

Sta. 1198+53.79
30" X 269.60' RCP
(U.A.C.)

Sta. 1202+49.29
48" X 269.50' RCP

Sta. 1202+49.29
Proposed 48" x 8' RCP Extension + FES
F.L. Other = 950.50
F.L. RT = 950.80

Sta. 1213+98.82
36" X 211.03' RCP

Sta. 1214+08.00
36" X 211.73' RCP

Sta. 1213+98.82
Proposed 36" x 8' RCP Extension + FES
F.L. Other = 962.00
F.L. RT = 961.90

Sta. 1214+08.00
Proposed 36" x 8' RCP Extension + FES
F.L. Other = 962.35
F.L. RT = 962.00

INTERSTATE 35
NORTHBOUND LANES

0 100
FEET

1000 990 980 970 960 950 940 930

Proposed Profile Grade

Existing Ground Line

VPC = 1202+25.00
EL = 963.26

VLP = 1204+09.97
EL = 962.53

VPT = 1206+25.00
EL = 963.52

VPI = +25.00
EL = 961.68
L = 400.00'
K = 234

-0.79%

+0.92%

-4.33% RT Ditch Grade

+1.13% RT Ditch Grade

+2.40% RT Ditch Grade

RT +50
959.41

RT +49
950.80

RT +00
952.50

RT +50
958.51

VPC = 1211+00.00
EL = 967.89

VPI = +00.00
EL = 970.65
L = 600.00'
K = 1429

VPT = 1217+00.00
EL = 972.15

+0.92%

+0.50%

-0.83% RT Ditch Grade

+0.71% RT Ditch Grade

+2.36% RT Ditch Grade

-0.54% RT Ditch Grade

+0.21% RT Ditch Grade

-0.40% RT Ditch Grade

-3.01% RT Ditch Grade

RT +00
963.53

RT +96
961.90

RT +10
962.00

RT +71
965.80

RT +29
964.95

RT +00
965.10

RT +00
964.30

Lt U.A.C.
Med U.A.C.
Rt U.A.C. Existing Ditch | Ditch Grade | 4' Ditch | Ditch Grade

| | | |

STA. 1996+20.35
36" x 313.37' RCP
SKEW=5 RT AH
(U.A.C.)

STA. 1998+74.19
30" x 299.84' RCP
(U.A.C.)

LINN TWN.
T-77N R-25W
SEC. 06

Veterans Pkwy

1225+00 1230+00 1235+00 1240+00 1245+00 1250+00

Interstate 35

STA. 2001+32.58
24" x 286.87' RCP
(U.A.C.)

Sta. 1221+66.42
6' X 5' X 136' RCBC
72" X 96.35' RCP

Sta. 1221+66.42
Proposed 72" x 20' RCP Extension + FES
F.L. Other = 959.77
F.L. RT = 959.30

Sta. 1232+74.20
Proposed 30" x 12' RCP Extension + FES
F.L. Other = 973.30
F.L. RT = 973.10

Sta. 1232+74.20
30" X 207.57' RCP

3.16% Ditch Grade

3.41% Ditch Grade

Existing ROW

STA. 2003+09.35
48" x 316.26' RCP
SKEW=16 RT AH
(U.A.C.)

STA. 51253+22.22
24" x 156.28' RCP
(U.A.C.)

0 100
FEET

INTERSTATE 35
NORTHBOUND LANES

VPI = +50.00
EL = 990.57
L = 800.00'
K = 629

VPC = 1231+50.00
EL = 979.40

VPI = +00.00
EL = 980.15
L = 300.00'
K = 1742

VPT = 1234+50.00
EL = 981.16

VPC = 1244+50.00
EL = 987.88

VPT = 1248+72.72
EL = 989.30

+0.50% +0.67% +0.67% -0.60%

Proposed Profile Grade

Existing Ground Line

-3.01% RT Ditch Grade
RT +66
959.30

+1.48% RT Ditch Grade

+2.65% RT Ditch Grade
RT +50
969.44

RT +00
973.41

RT +30
974.06

-0.67% RT Ditch Grade
RT +74
973.10

+1.28% RT Ditch Grade
RT +34
976.44

+0.22% RT Ditch Grade
RT +66
980.00

RT +50
980.62

-0.83% RT Ditch Grade
RT +00
983.87

1020 1010 1000 990 980 970 960 950

Lt
Med
Rt

U.A.C.
U.A.C.

Ditch Grade | 5' Ditch | Ditch Grade | Bridge | Ditch Grade | 5' Ditch | Ditch Grade

974.15 974.27 974.40 974.52 974.65 974.77 974.90 975.02 975.15 975.27 975.40 975.52 975.65 975.77 975.90 976.02 976.15 976.27 976.40 976.52 976.65 976.77 976.90 977.02 977.15 977.27 977.40 977.52 977.65 977.77 977.90 978.02 978.15 978.27 978.40 978.52 978.65 978.77 978.90 979.02 979.15 979.27 979.40 979.53 979.66 979.79 979.93 980.07 980.21 980.36 980.51 980.67 980.83 980.99 981.16 981.33 981.49 981.66 981.83 982.00 982.17 982.33 982.50 982.67 982.84 983.01 983.18 983.34 983.51 983.68 983.85 984.02 984.18 984.35 984.52 984.69 984.86 985.02 985.19 985.36 985.53 985.70 985.86 986.03 986.20 986.37 986.54 986.70 986.87 987.04 987.21 987.38 987.54 987.71 987.88 988.04 988.20 988.34 988.47 988.60 988.71 988.81 988.91 988.99 989.06 989.13 989.18 989.23 989.26 989.28 989.30 989.30 989.30 989.28 989.25 989.22 989.17 989.12 989.05 988.98 988.89

1225+00 1230+00 1235+00 1240+00 1245+00 1250+00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.7

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LINN TWN.
T-77N R-25W
SEC. 06

Sta. 1264+01.75 SBL
Proposed 24" x 8' RCP Extension
Proposed 15" x 24' CMP Extension
F.L. Other = XXX.XX
F.L. Other = XXX.XX
F.L. RT = XXX.XX

Adams Street

1250+00 | 1255+00 | 1260+00 | 1265+00 | 1270+00 | 1275+00 | 1280+00

Interstate 35

Reconstruct Cable Guard

Sign Truss

1:3% Ditch Grade

STA. 51253+22.22
24" x 156.28' RCP
(U.A.C.)

Sta. 1256+11.24
24" X 284.92' RCP
SKEW=30 RT AH

Sta. 1258+05.19
24" X 216.74' RCP

Sta. 1256+11.24
Proposed 24" x 18' RCP Extension + FES
Skew = 30° RT Ahead
F.L. Other = 969.54
F.L. RT = 969.30

Sta. 1258+05.19
Proposed 24" x 22' RCP Extension + FES
F.L. Other = 972.73
F.L. RT = 972.50

Existing ROW

END CONSTRUCTION
STA. 1265+00.00

Sta. 1268+51.10
36" X 295.85' RCP
(U.A.C.)

TS 1272+28.92

SC 1274+28.92

Δ = 27°36'08.53" (RT)
T = 703.72'
L = 1380.12'
R = 2864.79'
E = 85.17'
e = ___
L = ___
x = ___

0 FEET 100

Refer to J sheets for Crossover Information

INTERSTATE 35
NORTHBOUND LANES

VPT = 1252+50.00
EL = 988.17

-0.83% RT Ditch Grade
-6.31% RT Ditch Grade
-3.50% RT Ditch Grade
-0.36% RT Ditch Grade
+0.20% RT Ditch Grade
+2.05% RT Ditch Grade
-0.56% RT Ditch Grade
-1.28% RT Ditch Grade

RT +44 982.67
RT +13 980.24
RT +00 974.75
RT +50 969.50
RT +05 969.30
RT +05 972.50
RT +50 972.59
RT +41 976.50
RT +00 975.05
RT +00 972.49

Proposed Profile Grade

STA. 1265+00.00
ELEV = 980.67
END CONSTRUCTION

Existing Ground Line

1020 | 1010 | 1000 | 990 | 980 | 970 | 960 | 950

Lt Med Rt
U.A.C.
U.A.C.
Ditch Grade | Bridge | Ditch Grade | No Ditch | Ditch Grade

989.12 989.05 988.98 988.89 988.80 988.69 988.58 988.45 988.32 988.17 988.02 987.87 987.72 987.57 987.42 987.27 987.12 986.97 986.82 986.67 986.52 986.37 986.22 986.07 985.92 985.77 985.62 985.47 985.32 985.17 985.02 984.87 984.72 984.57 984.42 984.27 984.12 983.97 983.82 983.67 983.52 983.37 983.22 983.07 982.92 982.77 982.62 982.47 982.32 982.17 982.02 981.87 981.72 981.57 981.42 981.27 981.12 980.97 980.82 980.67

1250+00 | 1255+00 | 1260+00 | 1265+00 | 1270+00 | 1275+00 | 1280+00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.8

9:17:46 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_D01toD08.dgn

Survey Information

Warren County
IM-NHS-035-2(467)63--03-91
1.8 mi S of Co Rd G14 to 0.25 mi N of Adams St (NB)
Project Directory: 9103503000
SAP-635.7

General Information

Measurement units for this survey are US survey feet. This survey is for the reconstruction of northbound I-35 from 1.8 miles south of County Road G14 to 0.25 miles North of Adams Street in Warren County.

Vertical Control

Vertical datum for this survey is relative to NAVD88, Geoid 12a. Control matches existing control from multiple projects along the I-35 corridor. See SAP #635 for additional information.

Verified multiple benchmarks along I-35 corridor from as-built project IM-035-2(336)65--13-91. IaRTN check observations were within acceptable tolerance. Base station was set at G015 and additional control points were established for this survey. Coordinate values were averaged from multiple observations with appropriate time spans between.

Horizontal Control

The following control information was provided by the Iowa Department of Transportation. The project coordinate system is Modified Iowa State Plane South Zone (U.S. Survey Feet) scaled around Pt. G070 at 513358.35 N, 1563703.57 E, 945.42 (H)eight. IaRTN datum is adjusted to NAD83(2011) (Epoch 2010.00).

1/Combined Scale Factor of project (State plane grid modified to ground) = 1.000086224.

This survey control is relative to IaRTN reference stations. Verified multiple control points along I-35 corridor from as-built project IM-035-2(336)65--13-91. IaRTN check observations were within acceptable tolerance. Base station was set at G015 and additional control points were established for this survey. Coordinate values were averaged from multiple observations with appropriate time spans between.

Alignment Information

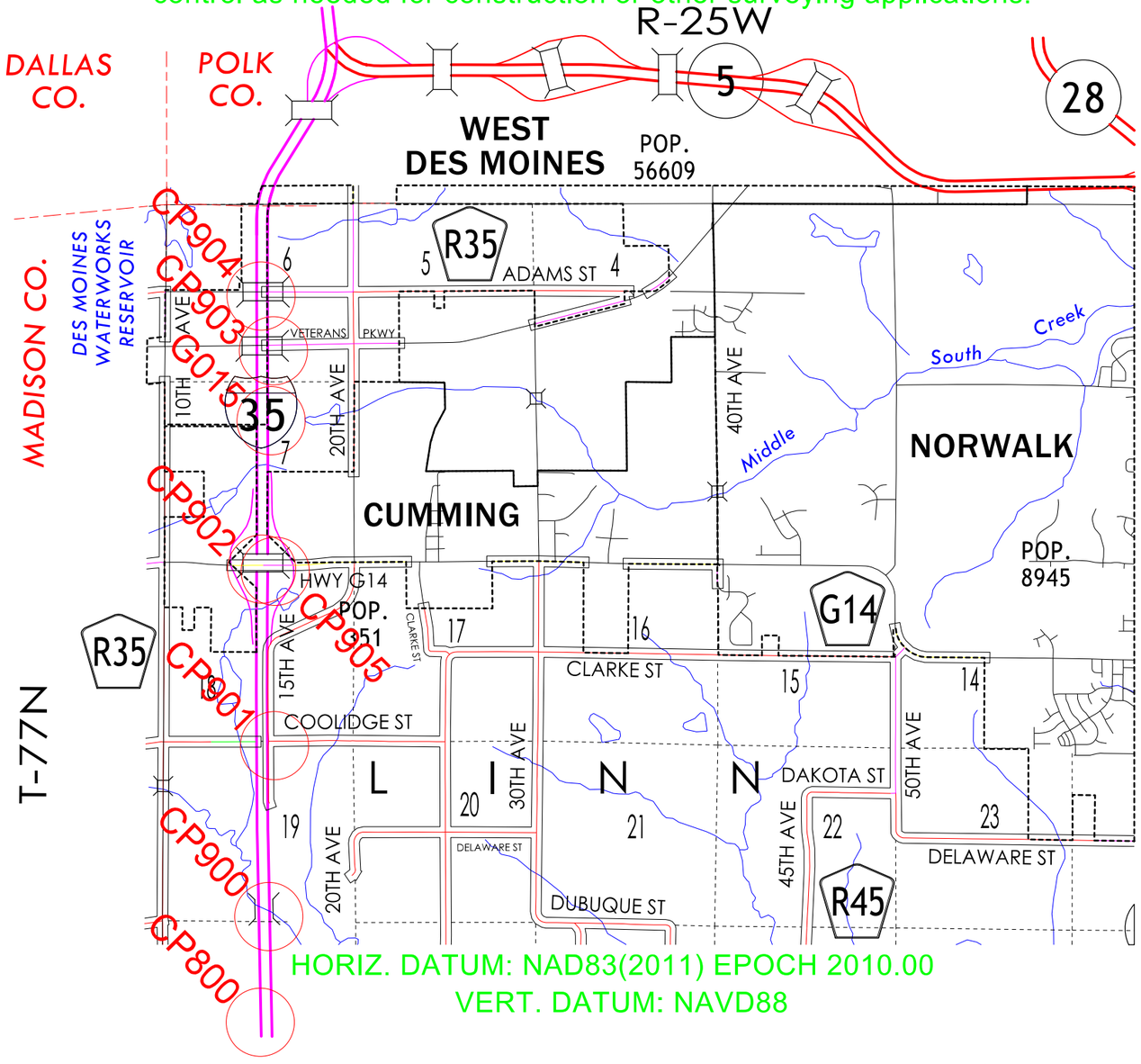
The I-35 alignment for this survey was provided by the State. Information on alignment can be found here: pw:\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\9103503000\PrelimSurvey?5\I-35 alignment description.docx.

The Veterans Parkway alignment for this survey was provided by HRG for the design of Veterans Parkway. HRG project was performed for the City of WDSM under Project Number 0510-009-2017. Veterans Parkway project is in IASPSouth coordinate system. Alignment coordinates were reprojected to the current project coordinate system. Stationing was held at PC 2031+01.54 and ran ahead and back without equation. The alignment is located north of the existing road for future four lane expansion.

The Adams Street alignment was originally created for the Adam's Street Bridge over I-35 project for Warren County performed by Snyder & Associates, Inc. The alignment is located north of the existing road for future four lane expansion.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points
Primary control is for use with RTK base stations and for RTN validation.
Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00
VERT. DATUM: NAVD88

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER G.2

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HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Point Name	Northing	Easting	Elevation	Feature Definition	Description
CP800	527126.20	1563403.92	916.72	CP	5/8IN REBAR W/ IDOT ALUM CAP +/-1FT W OF FENCE +/-100FT W OF I35
CP900	530227.79	1563658.47	859.88	CP	CUT X SE WING WALL BADGER CREEK BRIDGE SB LANE
CP901	535238.30	1563820.86	874.17	FENO	FENO MONUMENT +/-5FT N OF GUARD RAIL +/-5FT W OF 15TH AVE +/- N OF COOLIDGE ST
CP902	540416.34	1563444.73	986.08	CP	CUT X NW WING WALL G14 HWY BRIDGE
CP903	546815.14	1563788.01	1006.28	CP	CUT X SE WING WALL VETERANS PKWY BRIDGE
CP904	548424.60	1563426.40	1009.05	CP	CUT X NW COR PEDESTRIAN BRIDGE OF ADAMS ST
CP905	540347.38	1563842.37	985.04	FENO	FENO MONUMENT +/-5FT S OF G14 HWY+/-20FT E OF I35 BRIDGE
GO15	544767.01	1563722.56	970.26	CP	5/8IN REBAR +/-1FT E OF SHOULDER NB LANE FROM IDOT PROJECT IM-035-2(336)65--13-91

LINN TWN.
T-77N R-25W
SEC. 19

JEFFREY JON & DOREENA LEE WARREN

1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085+00 1086+00 1087+00 1088+00 1089+00 1090+00 1091+00 1092+00

Interstate 35

Construction Limits

PAUL M. & RENA KING

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #:
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.1

9:18:14 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

JEFFREY JON &
DOREENA LEE
WARREN

LINN TWN.
T-77N R-25W
SEC. 19

LINN TWN.
T-77N R-25W
SEC. 19

JEFFREY JON & DOREENA WARREN

1093+00 1094+00 1095+00 1096+00 1097+00 1098+00 1099+00 1100+00 1101+00 1102+00 1103+00 1104+00 1105+00 1106+00 1107+00

Interstate
35

SIGN

SIGN

Construction Limits

PAUL M. &
RENA KING

PAUL M. & RENA K. KING

REX D. &
KATHLEEEN L.
WOLFE

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

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- **Temporary Easement**
- **Permanent Acquisition**

0 50
FEET

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.2

9:18:18 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

LINN TWN.
T-77N R-25W
SEC. 19

JOAQUIN FLORES RAMOS &
PATRICIA MURO FLORES

VENTLING
PROPERTIES LLC

1108+00 1109+00 1110+00 1111+00 1112+00 1113+00 1114+00 1115+00 1116+00 1117+00 1118+00 1119+00 1120+00 1121+00 1122+00

Interstate
35

Construction Limits

SEAN AND GAVAN RENKLY

RLC2 MIDLLEBROOK LLC/
RDR MIDDLEBROOK LLC

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #:
Plan Date: 01/31/23
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.3

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LINN TWN.
T-77N R-25W
SEC. 18

VENTLING PROPERTIES LLC

1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00

Interstate 35

Construction Limits

RLC2 MIDLLEBROOK LLC/
RDR MIDDLEBROOK LLC

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

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ROW #:
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.4

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VENTLING PROPERTIES LLC

JOHN W WHITE LIVING TRUST

LINN TWN.
T-77N R-25W
SEC. 18

1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00

Interstate 35

SIOUX CREEK

Construction Limits

MIDLLEBROOKHB LLC
LAND CONCEPTS LLC

MIDLLEBROOKHB LLC
LAND CONCEPTS LLC

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
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- Property Line
- Temporary Easement

Right of Way Design Information

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- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.5

9:18:25 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

JOHN W WHITE LIVING TRUST

LINN TWN.
T-77N R-25W
SEC. 18

1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00 1166+00 1167+00

Interstate 35

Construction Limits

MIDDLEBROOK HB LLC /
LAND CONCEPTS LLC

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

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- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.6

9:18:27 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

LINN TWN.
T-77N R-25W
SEC. 07

HWY G14

Interstate 35

1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00

Construction Limits

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #:
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

HY-VEE, INC.

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.7

9:18:28 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

LINN TWN.
T-77N R-25W
SEC. 07

PIOO LLC

1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00

Interstate 35

Construction Limits

HY-VEE, INC.

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #:
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.8

9:18:29 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

LINN TWN.
T-77N R-25W
SEC. 07

P100 LLC

NANCY C DEIMERLY

1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00

Interstate
35

SIGN

SIGN

SIGN

Construction Limits

HY-VEE, INC.

KATHERINE A & MICHAEL P HOLZWORTH

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #:
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50
FEET

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.9

9:18:31 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

MICROSOFT CORPORATION

1213+00 1214+00 1215+00 1216+00 1217+00 1218+00 1219+00 1220+00 1221+00 1222+00 1223+00 1224+00 1225+00 1226+00 1227+00

Interstate 35

Construction Limits

KATHERINE A & MICHAEL P HOLZWORTH

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

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- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.10

9:18:33 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

MICROSOFT CORPORATION

LINN TWN.
T-77N R-25W
SEC. 06

CHARLES & RUTH COLBY

VETERANS PARKWAY

Interstate 35

1228+00 1229+00 1230+00 1231+00 1232+00 1233+00 1234+00 1235+00 1236+00 1237+00 1238+00 1239+00 1240+00 1241+00 1242+00

Construction Limits

KATHERINE A & MICHAEL P HOLZWORTH

KATHERINE A & MICHAEL P HOLZWORTH

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
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- Existing and Proposed Fee Simple Title Right-of-Way
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Right of Way Design Information

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ROW Team: SNYDER
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Plan Date: 01/31/23
Color Legend:
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- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**WARREN** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **H.11**

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LINN TWN.
T-77N R-25W
SEC. 06

LINN TWN.
T-77N R-25W
SEC. 06

CHARLES & RUTH COLBY

CHARLES & RUTH COLBY

ADAMS STREET

Interstate
35

1243+00 1244+00 1245+00 1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00 1256+00 1257+00

Construction Limits

GENERAL MANUFACTURING CO

KATHERINE A & MICHAEL P HOLZWORTH

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
- Existing Right of Way
- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
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- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.12

9:18:39 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

LINN TWN.
T-77N R-25W
SEC. 06

CHARLES & RUTH COLBY

CHARLES & RUTH COLBY

Interstate
35

1258+00 1259+00 1260+00 1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00

Construction Limits

GENERAL MANUFACTURING CO

GENERAL MANUFACTURING CO

RIGHT-OF-WAY LEGEND

- Proposed Fee Simple Title
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- Existing and Proposed Fee Simple Title Right-of-Way
- Property Line
- Temporary Easement

Right of Way Design Information

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Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER H.13

9:18:42 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Med	(237)	Future Proposed Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail		Permanent Barrier Rail
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Magenta	(5)	Pavement Marking Call Outs
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)	Pavement Markings, Yellow
Off White	(254)	Pavement Markings, White
Violet	(15)	Temporary barrier rail, Unpinned
Flush Orange	(228)	Temporary barrier rail, Pinned

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

●	Channelizing Device		Crash Cushion (Temp or Perm)
✕	Drum		Traffic Signal
◘	Temporary Lane Separator		Flagger
◆	Tubular Marker		Temporary Floodlighting
♦	Channelizer Marker		Traffic Sign
△	Concrete Barrier Marker		Type III Barricade
ς	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout	1	Lane Identification

NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)

STAGING NOTES

Refer to following J sheets for additional information.

Stage 1:
Traffic:
-Northbound right lane closure from STA 1121+44.23 to STA 1204+94.21.
Construction:
-Shoulder strengthening of right 10' shoulder STA 1137+50.00 to STA 1147+78.83, STA 1154+41.31 to STA 1186+83.75, & STA 1198+38.46 to STA 1203+50.00.

Stage 2:
Traffic:
-Northbound traffic shifts 6' to the east utilizing the strengthened shoulder from Stage 1. Lane redirection taper begins at STA 1142+90.00 and traffic returns to normal alignment by STA 1198+10.00.
-Temporary barrier rail placed with 2' buffer from the Northbound left lane from STA 1145+35.83 to STA 1195+94.60.
-Temporary barrier rail placed with 5' buffer from the Northbound left lane from STA 1264+90.50 to STA 1272+40.50.
-Southbound left lane closure from STA 1257+03.64 to STA 1282+51.27.
-Refer to IM-NHS-035-2(465)61--03-91 staging notes and J Sheets for Southbound inside 12' shoulder closure with temporary barrier rail southern limits and traffic control. Southbound inside 12' shoulder closure with temporary barrier rail ends at STA 1268+25.12.
Construction:
-Remove Northbound left 6' shoulder from STA 1146+38.82 to STA 1152+49.10 & STA 1186+83.77 to STA 1194+98.60.
-Remove existing Southbound left lane drop taper from STA. 1257+64.00 to STA. 1266+07.92.
-Place beveled pipe and guard and construct slotted median drain from STA. 1146+12.99 to STA. 1152+69.11.
-Place beveled pipe and guard and construct slotted median drain from STA. 1186+63.94 to STA. 1195+21.53.
-Place beveled pipe and guard and construct slotted median drain from STA. 1265+18.24 to STA. 1269+23.88.
-Grade and Pave detour pavement from STA 1140+93.73 to STA 1152+49.08 for exit 65 from Northbound I-35 traffic traveling on Southbound I-35.
-Grade and Pave detour pavement from STA 1186+83.77 to STA 1202+46.25 for the exit 65 entrance ramp to Northbound lanes on Southbound I-35.
-Detour pavement for both the entrance and exit ramps accounts for detour routes utilized by traffic in Stage 3 and in Stage 3A.
-Grade and Pave temporary median crossover between the existing Southbound lanes and the existing Northbound lanes from STA 1261+15.25 to STA 1272+06.12.
-Grade and Pave full-depth inside 12' lane for Southbound I-35 from STA 1074+21.37 to STA 1266+07.87.

Stage 3:
Traffic:
-The Northbound traffic utilizes the new median crossover, refer to IM-NHS-035-2(465)61--03-91, to switch from the existing Northbound lanes to the existing Southbound I-35 pavement.
-Northbound traffic utilizes temporary detour pavement for exit 65.
-Merging traffic utilizes temporary detour pavement to enter Northbound lanes on Southbound I-35 pavement.
-Head on interstate traffic traveling on Southbound I-35 interstate lanes will be seperated by temporary barrier rail. Refer to IM-NHS-035-2(465)61--03-91 staging notes and J Sheets for southern temporary barrier rail limits and traffic control. Head on traffic ends at STA 1264+00.00 with temporary barrier rail terminating with a crash cusion at STA 1269+05.14.
-Temporary barrier rail placed with a 2' buffer from Northbound cutside lane from STA 1167+68.01 to STA 1172+43.01, STA 1232+46.60 to STA 1236+96.60, and STA 1248+10.38 to STA 1252+35.58.
-Both Northbound and Southbound traffic will be in 11' lanes with a 5' shoulder.
Construction:
-Remove pavement of existing Northbound lanes from STA 1078+85.00 to STA 1147+40.57, STA 1153+83.72 to STA 1186+83.76, & STA 1189+71.30 to STA 1265+00.00.
-Remove pavement of existing Northbound left lane and shoulder and pavement needed from the temporary median crossover from STA 1151+04.65 to STA 1153+83.72 & STA 1186+83.76 to STA 1187+58.25.
-Remove pavement of existing Northbound right lane and shoulder from STA 1189+23.78 to STA 1189+71.80.
-Remove pavement of the existing acceleration taper from STA 1189+23.78 to STA 1199+22.94.
-Grade and Pave the proposed Northbound I-35 lanes from STA 1078+85.00 to STA 1147+40.57, STA 1153+83.72 to STA 1186+83.76, & STA 1189+71.80 to STA 1265+00.00.
-Grade and Pave the left 2 lanes (24') of Northbound I-35 from STA 1151+04.65 to STA 1153+83.72 & STA 1186+83.76 to STA 1187+58.25.
-Grade and Pave the right 2 lanes (24') of Northbound I-35 from STA 1189+23.78 to STA 1189+71.80.
-Grade and Pave the entrance ramp acceleration taper from STA 1189+23.78 to STA 1199+22.94.
-Grade and Pave detour pavement removed to pave mainline pavement from STA. 1146+38.82 to STA. 1147+40.58, STA. 1151+04.65 to STA. 1152+49.08, STA. 1186+83.77 to STA. 1187+58.25, and STA. 1189+71.80 to STA. 1194+98.60.

Stage 3A:
Traffic:
-The Northbound traffic utilizes the new median crossover, refer to IM-NHS-035-2(465)61--03-91, to switch from the existing Northbound lanes to the existing Southbound I-35 pavement.
-Exit 65 exit and entrance ramp detour routes switched to stage 3A pavement marking locations and traffic control. Northbound traffic exits and enters I-35 Northbound lanes using the new configuration on the detour pavement.
-Head on interstate traffic traveling on Southbound I-35 interstate lanes will be seperated by temporary barrier rail. Temporary barrier rail placed in stage 3 will be utilized.
-Temporary barrier rail placed on the Northbound outside shoulder in Stage 3 will be utilized.
-Both Northbound and Southbound traffic will be in 11' lanes with a 5' shoulder.
Construction:
-Remove pavement from the existing Northbound lanes and pavement needed from the temporary median crossover from STA 1147+40.57 to STA 1151+04.65.
-Remove pavement of existing Northbound right lane and shoulder from STA 1151+04.65 to STA 1152+09.86.
-Remove pavement of existing deceleration taper from STA 1148+61.00 to STA 1152+09.86.
-Remove pavement of existing Northbound left lane and shoulder and pavement needed from the temporary median crossover from STA 1187+58.25 to STA 1189+71.80.
-Grade and Pave the proposed Northbound lanes from STA 1147+40.57 to STA 1151+04.65.
-Grade and Pave the right 2 lanes (24') of Northbound I-35 from STA 1151+04.65 to STA 1152+09.86.
-Grade and Pave the exit ramp deceleration taper from STA 1148+91.20 to STA 1152+09.86.
-Grade and Pave the left 2 lanes (24') of Northbound I-35 from STA 1187+58.25 to STA 1189+71.80.

Stage 4:
Traffic:
-The Northbound traffic no longer utilizes any median crossovers, which allows traffic to drive on the new Northbound lanes.

108-26A
08-01-08

STAGING NOTES

-Temporary barrier rail placed with 5' buffer from the Northbound left lane from STA 1142+96.10 to STA 1195+97.10.
-Southbound I-35 left lane closed from STA 1138+65.92 to STA 1283+08.90 to traffic to allow for temporary pavement removals in the median.
Construction:
-Remove temporary median crossover pavement from STA 1140+93.73 to STA 1152+49.08.
-Remove temporary median crossover pavement from STA 1186+83.77 to STA 1202+46.25.
-Remove beveled pipe and guard and slotted median drain from STA. 1146+01.82 to STA. 1152+81.08.
-Remove beveled pipe and guard and slotted median drain from STA. 1186+51.77 to STA. 1195+35.61.
-Remove temporary median crossover pavement from STA 1261+15.25 to STA 1272+06.12.
-Remove beveled pipe and guard and slotted median drain from STA. 1265+18.24 to STA. 1268+67.16.

Stage 5:
Traffic:
-Exit and entrance ramp at exit 65 closed to traffic.
-Northbound I-35 right lane closure from STA 1127+59.65 to STA 1200+21.73.
-Northbound I-35 traffic traveling in the left lane shifted 6' to the west from STA 1152+09.68 to STA 1189+23.79. Lane redirection taper begins at STA 1143+69.81 and traffic returns to normal lane alignment at STA 1197+63.78.
-Temporary barrier rail placed with a 2' buffer from the proposed stage 5 paving from STA 1151+20.53 to STA 1154+20.53 & STA 1185+94.59 to STA 1189+44.59.
Construction:
-Remove pavement of the existing Northbound I-35 right lane and shoulder from STA 1152+09.86 to STA 1153+83.72 & STA 1186+83.78 to STA 1189+23.79.
-Remove pavement of the existing exit ramp deceleration taper from STA 1152+09.86 to STA 1154+01.57.
-Remove pavement of the existing entrance ramp acceleration taper from STA 1186+93.78 to STA 1189+23.79.
-Grade and Pave the right 2 lanes (24') of Northbound I-35 from STA 1152+09.86 to STA 1153+83.72 & STA 1186+83.78 to STA 1189+23.79.
-Grade and Pave the exit ramp deceleration taper from STA 1152+09.86 to STA 1154+01.57.
-Grade and Pave the entrance ramp acceleration taper from STA 1186+93.78 to STA 1189+23.79.

TRAFFIC CONTROL PLAN

Refer to Tab 108-26A (Staging Notes) for traffic control specifics.

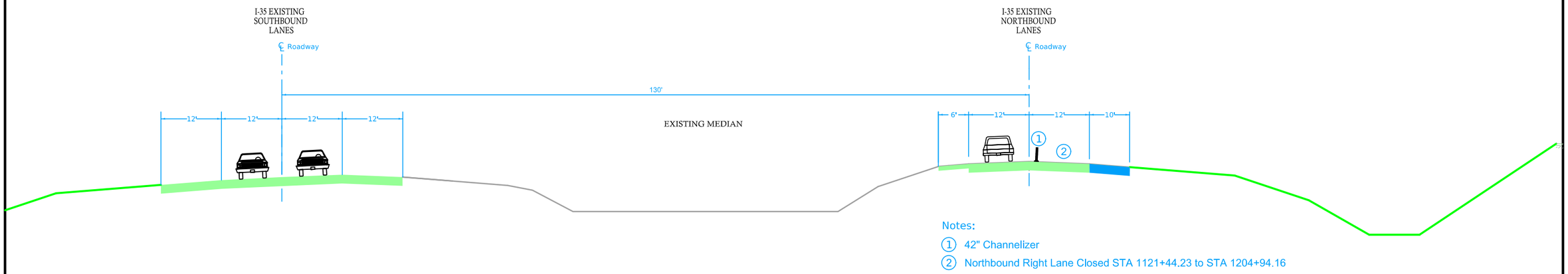
Two lanes must be available during the following times:
Northbound - 6:00 AM to 6:00 PM Daily
Southbound - 6:00 AM to 6:00 PM Daily
Lane closures are permissible outside of these times.

All traffic control will remain the sole responsibility of the contractor. The contractor shall check traffic control daily and repair or replace damaged devices.

Shoulder closures will be allowed in accordance with Standard Road Plan TC-402. Shoulder closures with temporary barrier rail will follow Typical Application 5, Figure 6H-5, of Part 6 of the Manual on Uniform Traffic Control Devices.

I-35

STAGE 1



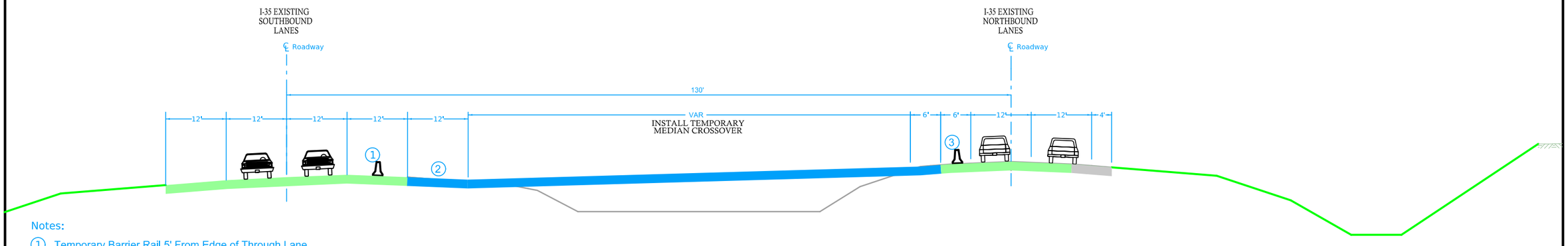
Notes:

1. 42" Channelizer
2. Northbound Right Lane Closed STA 1121+44.23 to STA 1204+94.16

STAGE 1 CONSTRUCTION
STA. 1137+50 to STA. 1147+78.83, STA. 1154+41.31 to STA. 1186+83.75
and STA. 1198+38.46 to STA. 1203+50.00
Right 10' Shoulder Strengthening

I-35

STAGE 2



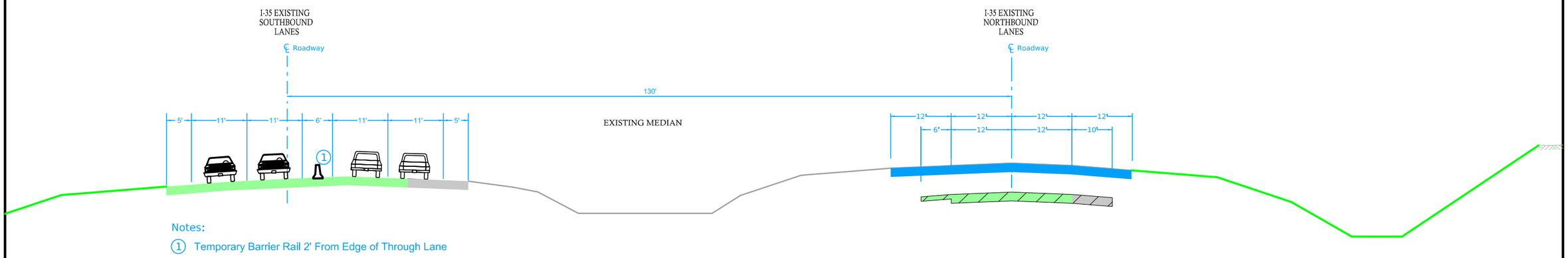
Notes:

1. Temporary Barrier Rail 5' From Edge of Through Lane
2. Southbound 12' Left Lane Constructed from STA. 1074+21.37 to STA. 1266+07.87
3. Temporary Barrier Rail 2' From Edge of Through Lane

STAGE 2 CONSTRUCTION
STA. 1140+93.73 to STA. 1152+49.08, STA. 1186+83.77 to STA. 1202+46.25,
and STA. 1261+15.25 to STA. 1272+06.12
Median Pavement Construction
Northbound Traffic Lanes Shift 6' To The East
Northbound Left 6' Shoulder Reconstructed

I-35

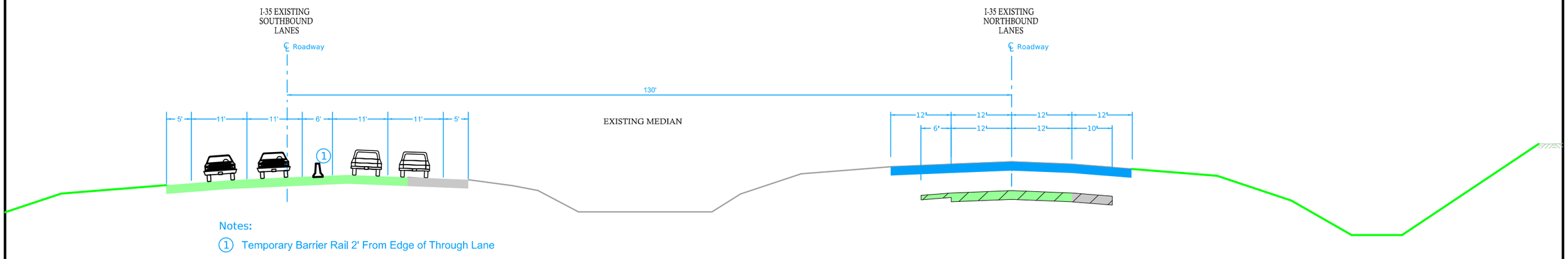
STAGE 3



STAGE 3 CONSTRUCTION
STA. 1078+85.00 to STA. 1147+40.57, STA. 1153+83.72 to STA. 1186+83.76,
and STA. 1189+71.80 to STA. 1265+00.00
Northbound I-35 Lane Construction

I-35

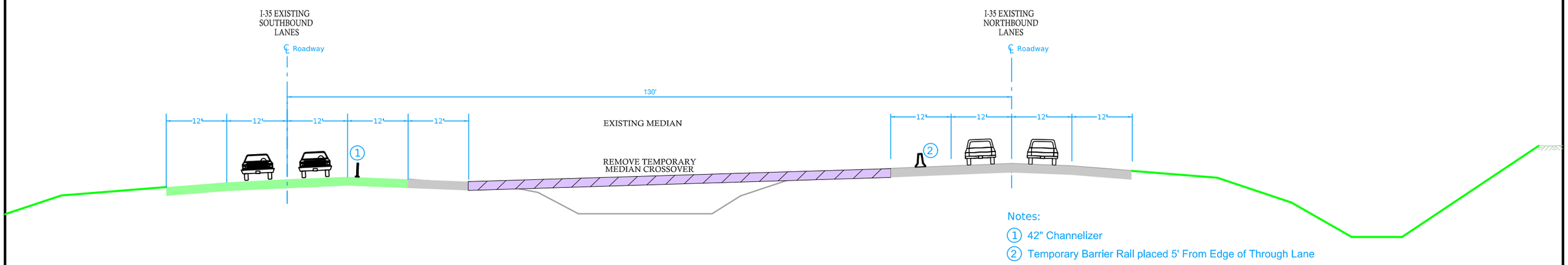
STAGE 3A



STAGE 3A CONSTRUCTION
STA. 1147+40.57 to STA. 1151+04.65
Northbound I-35 Lane Construction
Entrance Ramp & Exit Ramp Detour
Routes Switched to Stage 3A Traffic Control

I-35

STAGE 4



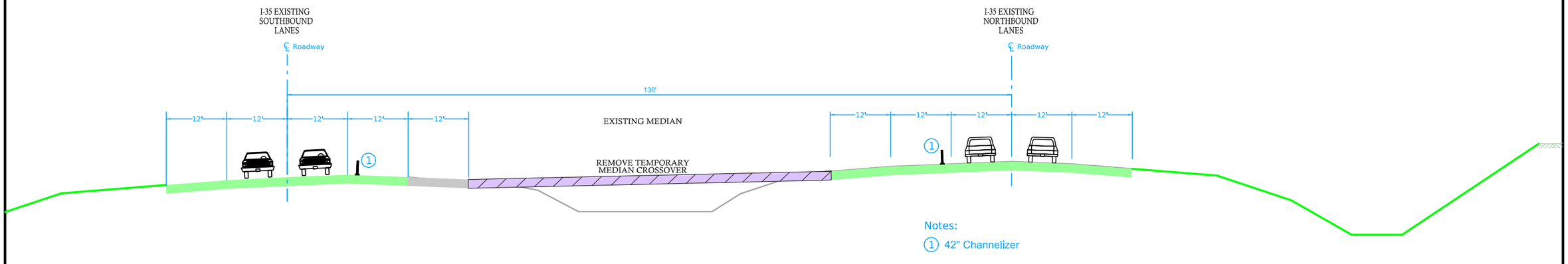
STAGE 4 CONSTRUCTION

STA. 1140+93.73 to STA. 1152+49.08 and STA. 1186+83.77 to STA. 1202+46.25

Temporary Median Crossover Removal

I-35

STAGE 4



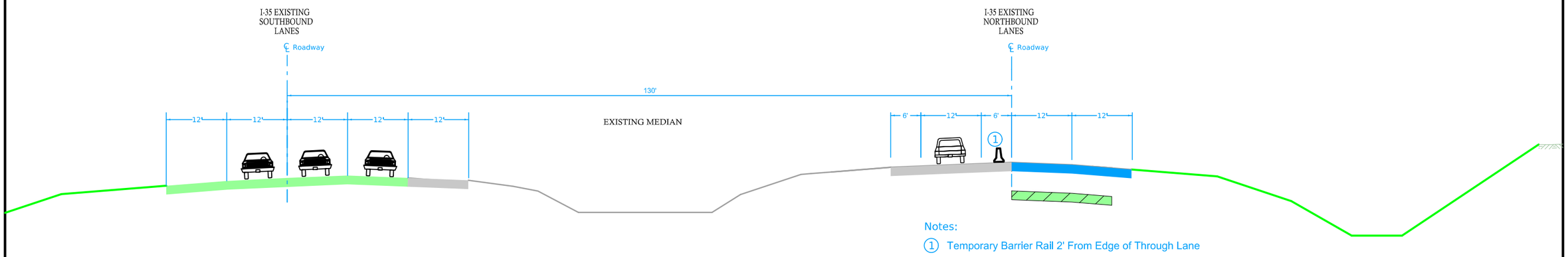
STAGE 4 CONSTRUCTION

STA. 1261+15.25 to STA. 1272+06.12

Temporary Median Crossover Removal

I-35

STAGE 5



STAGE 5 CONSTRUCTION
STA. 1152+09.86 to STA. 1153+83.72
STA. 1186+83.78 to STA. 1189+23.79
Pave Right 2 Lanes (24') of I-35 Northbound
Northbound Traffic Shifted 6' To The West

STAGE 1
1 of 4

1106+00 1107+00 1108+00 1109+00 1110+00 1111+00 1112+00 1113+00 1114+00 1115+00 1116+00 1117+00 1118+00 1119+00 1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00

1000′ 1000′ 1000′

45′ Spacing

STA 1121+44.23

ROAD WORK AHEAD
W20-1
48" x 48"

SPEED LIMIT 55
R2-1
48" x 60"

RIGHT LANE CLOSED AHEAD
W20-5
48" x 48"

MERGE
W4-2M
48" x 48"

W4-2
48" x 48"

0 FEET 100

STAGE 1
2 of 4

0 FEET 100

1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00 1166+00

100′ Spacing (Typ.)

STA 1137+50.00

STA 1147+78.83

STA 1154+41.31

EXIT 500 FT
G20-22
72" x 42"

SPEED LIMIT 55
R2-1
48" x 60"

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SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

STAGE 1
3 of 4

1166+00 1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00

STA 1186+83.75

ONE LANE ROAD AHEAD
W20-4
48" x 48"

ROAD WORK AHEAD
W20-1
48" x 48"

W3-2
48" x 48"

W4-1
48" x 48"

YIELD
R1-2
48" x 48" x 48"

0 100 FEET

STAGE 1
4 of 4

1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00 1216+00 1217+00 1218+00 1219+00 1220+00 1221+00 1222+00 1223+00 1224+00 1225+00

STA 1198+38.46
STA 1203+50.00
STA 1204+94.21
100'
5 DEVICES

END ROAD WORK
G20-2A
48" x 24"

SPEED LIMIT 70
R2-1
48" x 60"

0 100 FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.8

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STAGE 2
1 of 5

STA 1072+42.84
Refer to IM-NHS-2(465)61--03-91 for Continuation of TBR, Pavement Markings, and Traffic Control

STA 1074+21.37
Begin 12' Inside Lane Construction

0 100 FEET

1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085+00 1086+00 1087+00 1088+00 1089+00 1090+00 1091+00 1092+00 1093+00 1094+00 1095+00 1096+00 1097+00 1098+00 1099+00 1100+00 1101+00 1102+00 1103+00

STAGE 2
2 of 5

ALL LANES

W1-4R
48" x 48"

W24-1cP
30" x 30"

STA 1141+00.00
Temp. Extension
Refer to V Sheets

STA 1145+00.00
End Shift

0 100 FEET

1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00

1500'

500'

230'
5 Devices

STA 1145+35.83
Begin TBR
Install Temp. Crash Cushion

STA 1142+90.00
Begin Lane Redirection
35:1 Taper Ratio

ROAD WORK AHEAD
W20-1
48" x 48"

LEFT SHOULDER CLOSED
W21-5A
48" x 48"

1000 FEET
W16-2
24" x 18"

LEFT SHOULDER CLOSED
W21-5A
48" x 48"

NEXT 1.0 MI
W7-3aP
24" x 18"

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.9

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STAGE 2
3 of 5

0 100
FEET

1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205+00

STA 1201+42.00
Temp. Extension
Refer to V Sheets

STA 1195+94.60
End TBR

STA 1198+10.00
End Lane Redirection
35:1 Taper Ratio

STA 1196+00.00
Begin Lane Redirection
35:1 Taper Ratio

W1-4L
48" x 48"

ALL LANES
W24-1cP
30" x 30"

STAGE 2
4 of 5

0 100
FEET

1243+00 1244+00 1245+00 1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00 1256+00 1257+00 1258+00 1259+00 1260+00 1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00

LEFT SHOULDER CLOSED
W21-5A
48" x 48"

NEXT 6.5 MI
W7-3aP
24" x 18"

STA 1264+01.75
Temp. Extension
Refer to V Sheets

STA 1266+07.87
End 12' Inside Lane Construction

STA 1268+25.12
End TBR
Install Temp. Crash Cushion

100' Spacing (Typ.)

1500'

230'
5 Devices

STA 1256+97.42

65' Spacing

STA 1264+90.50
Begin TBR
Install Temp. Crash Cushion

STA 1272+40.50
End TBR

ROAD WORK AHEAD
W20-1
48" x 48"

LEFT SHOULDER CLOSED
W21-5A
48" x 48"

1000 FEET
W16-2
24" x 18"

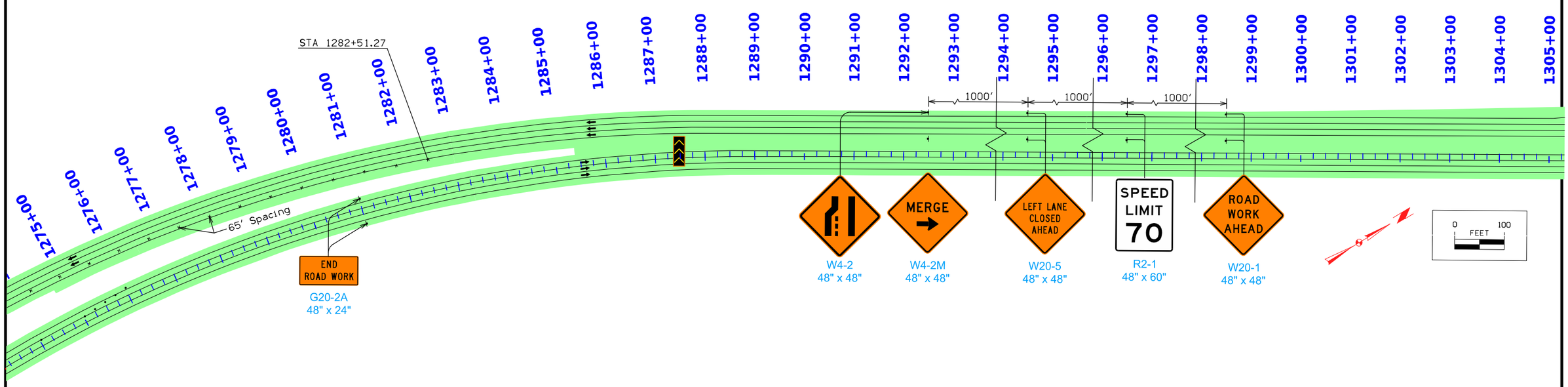
LEFT SHOULDER CLOSED
W21-5A
48" x 48"

NEXT 0.4 MI
W7-3aP
24" x 18"

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.10

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

STAGE 2
5 of 5



FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**WARREN** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **J.11**

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

STAGE 3
1 of 7

STA 1072+42.84
Refer to IM-NHS-2(465)61--03-91 for Continuation of TBR, Pavement Markings, and Traffic Control

0 100
FEET

1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085+00 1086+00 1087+00 1088+00 1089+00 1090+00 1091+00 1092+00 1093+00 1094+00 1095+00 1096+00 1097+00 1098+00 1099+00 1100+00 1101+00 1102+00 1103+00

STAGE 3
2 of 7

SPEED LIMIT 70
R2-1
48" x 60"

G20-23A
36" x 12"

65
EXIT
G20-23
48" x 48"

0 100
FEET

1129+00 1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00

STA 1140+91.00
Begin Taper

STA 1142+71.18
End Taper

15:1 Taper

12' Deceleration Lane

STA 1146+21.18
Begin Taper

40' Spacing

20'

20' Spacing

24' Width

STA 1153+83.72
Begin

EXIT
500 FT
G20-22
72" x 42"

EXIT
35
M.P.H.
W13-2
48" x 60"

STA 1146+73.92
Begin TBR
Install Temp. Crash Cushion

20' Spacing

STA 1148+03.85
End TBR

STA 1149+97.56
Begin TBR
Install Temp. Crash Cushion

STA 1151+04.65
End Taper

STA 1154+37.23
End TBR

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.12

9:57:52 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J12toJ15.dgn

STAGE 3
3 of 7

1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00

STA 1167+68.01
Begin TBR
Install Temp. Crash Cushion

STA 1172+43.01
End TBR

0 FEET 100

DO NOT ENTER
R5-1
30" x 30"

STA 1191+28.94

20' Spacing

20'

12' Acceleration Lane

STA 1197+29.28
Begin Taper

STA 1189+86.34
End TBR

STA 1189+71.80

STA 1189+23.78

YIELD
R1-2
48" x 48" x 48"

20' Spacing

STA 1188+52.54
Begin TBR
Install Temp. Crash Cushion

STA 1188+05.33
End TBR

STA 1187+58.25

STA 1187+20.20
Begin TBR
Install Temp. Crash Cushion

STA 1186+83.78

ROAD WORK AHEAD
W20-1
48" x 48"

W3-2
48" x 48"

W4-1
48" x 48"

SIGN

STAGE 3
4 of 7

0 FEET 100

SPEED LIMIT 70
R2-1
48" x 60"

1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00 1216+00 1217+00 1218+00 1219+00 1220+00 1221+00 1222+00 1223+00 1224+00

12' Acceleration Lane

25:1 Taper

STA 1200+29.75
End Taper

STA 1197+29.28
Begin Taper

SAN.

SIGN

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.13

9:57:54 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J12toJ15.dgn

STAGE 3
5 of 7

SPEED LIMIT 70

R2-1
48" x 60"

0 100 FEET

W1-4R W24-1cP
48" x 48" 30" x 30"

ALL LANES

1225+00 1226+00 1227+00 1228+00 1229+00 1230+00 1231+00 1232+00 1233+00 1234+00 1235+00 1236+00 1237+00 1238+00 1239+00 1240+00 1241+00 1242+00 1243+00 1244+00 1245+00 1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00

STA 1236+96.60
End TBR

STA 1232+46.60
Begin TBR
Install Temp. Crash Cushion

STA 1252+35.38
End TBR

STA 1248+10.38
Begin TBR
Install Temp. Crash Cushion

STAGE 3
6 of 7

ALL LANES

W1-4R W24-1cP
48" x 48" 30" x 30"

0 100 FEET

1253+00 1254+00 1255+00 1256+00 1257+00 1258+00 1259+00 1260+00 1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00

STA 1252+35.38
End TBR

40' Spacing

STA 1269+05.14
End TBR
Install Temp. Crash Cushion

40' Spacing

100' Spacing (Typ.)

STA 1274+81.56
End Shift

65' Spacing

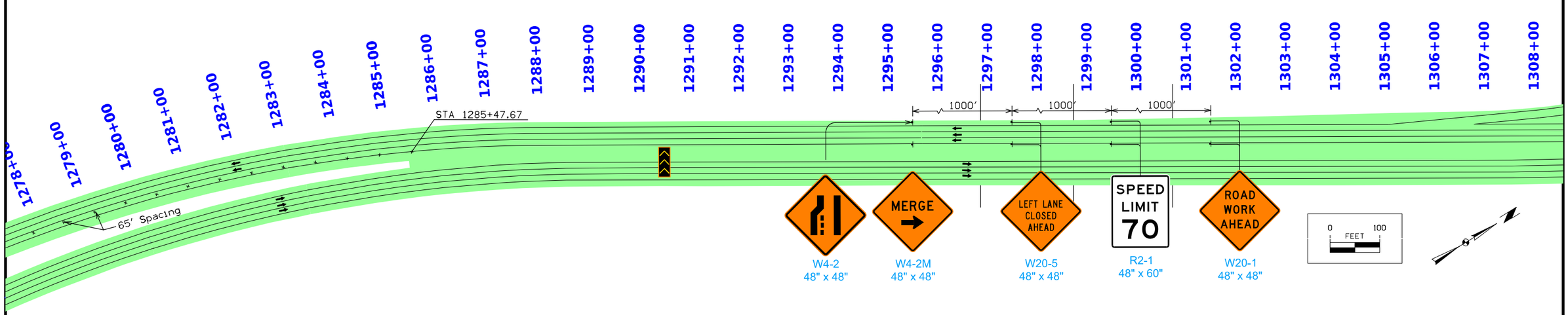
END ROAD WORK

G20-2A
48" x 24"

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.14

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STAGE 3
7 of 7



W4-2
48" x 48"

W4-2M
48" x 48"

W20-5
48" x 48"

R2-1
48" x 60"

W20-1
48" x 48"

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.15

9:57:56 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J12toJ15.dgn

STAGE 3A
1 of 3

SPEED LIMIT 70
R2-1
48" x 60"

G20-23A
36" x 12"
65
EXIT
G20-23
48" x 48"

0 100 FEET

1129+00 1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00

STA 1140+91.18
Begin Taper
STA 1142+71.18
End Taper
15:1 Taper
12' Deceleration Lane
20'
40' Spacing
20' Spacing
20' Spacing

EXIT
500 FT
G20-22
72" x 42"

EXIT
35
M.P.H.
W13-2
48" x 60"

STA 1146+81.43
Begin TBR
Install Temp. Crash Cushion
STA 1147+40.57
STA 1151+04.65
STA 1152+09.86
STA 1152+28.51
End TBR

STAGE 3A
2 of 3

1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00

STA 1167+68.01
Begin TBR
Install Temp. Crash Cushion
STA 1172+44.32
End TBR

STA 1187+58.23
STA 1189+71.80
20' Spacing
20'
20' Spacing
12' Acceleration Lane
STA 1189+90.05
End TBR
STA 1187+24.26
Begin TBR
Install Temp. Crash Cushion

ROAD WORK AHEAD
W20-1
48" x 48"

W3-2
48" x 48"

W4-1
48" x 48"

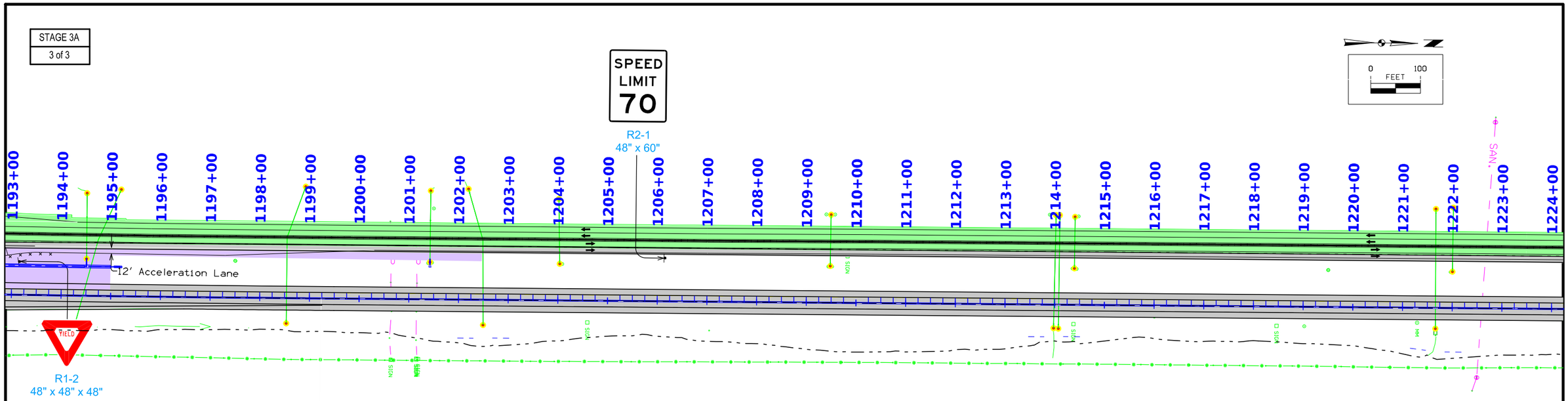
YIELD
R1-2
48" x 48" x 48"

0 100 FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.16

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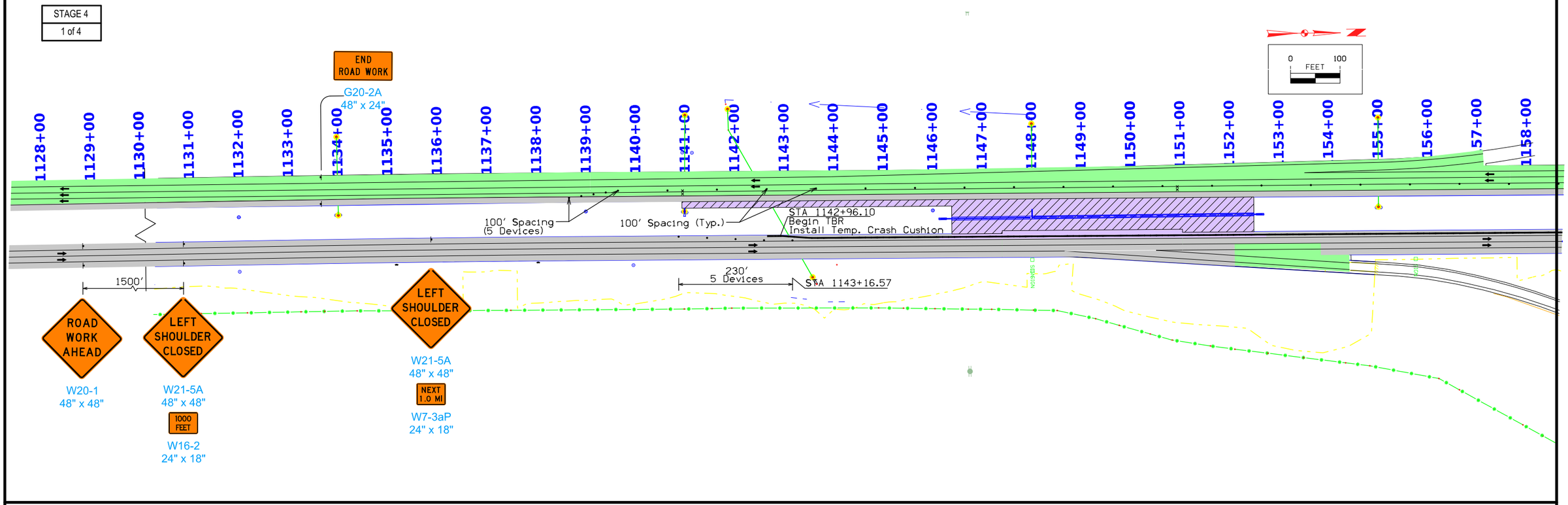
STAGE 3A
3 of 3



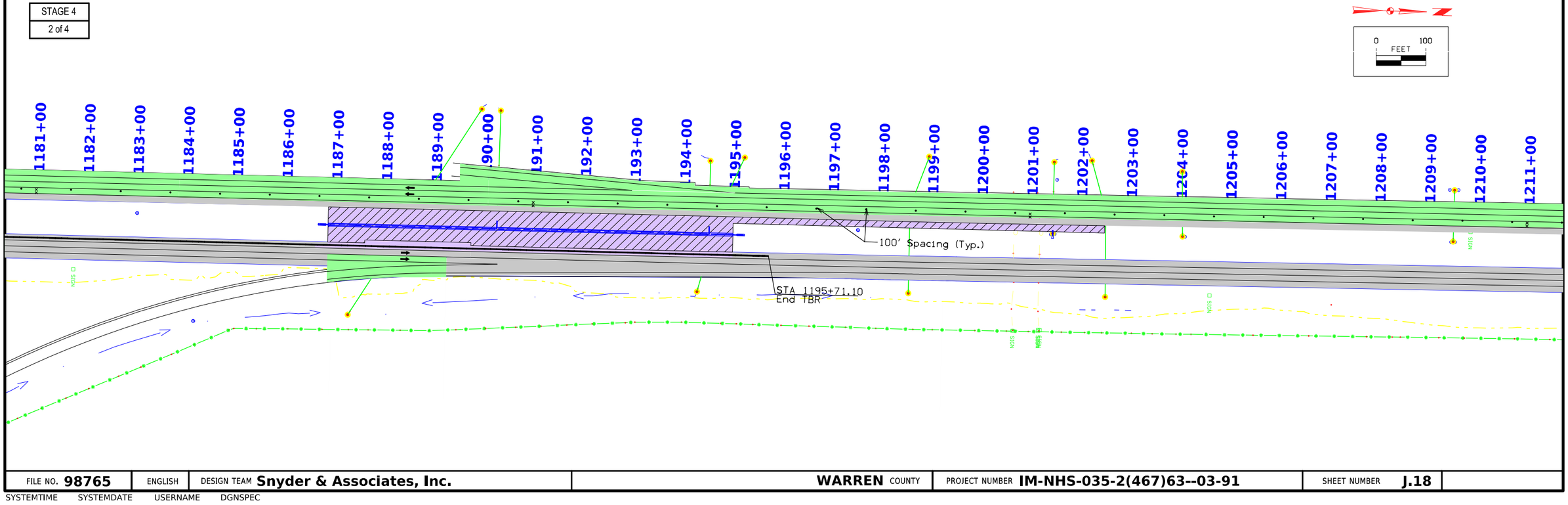
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STAGE 4
1 of 4



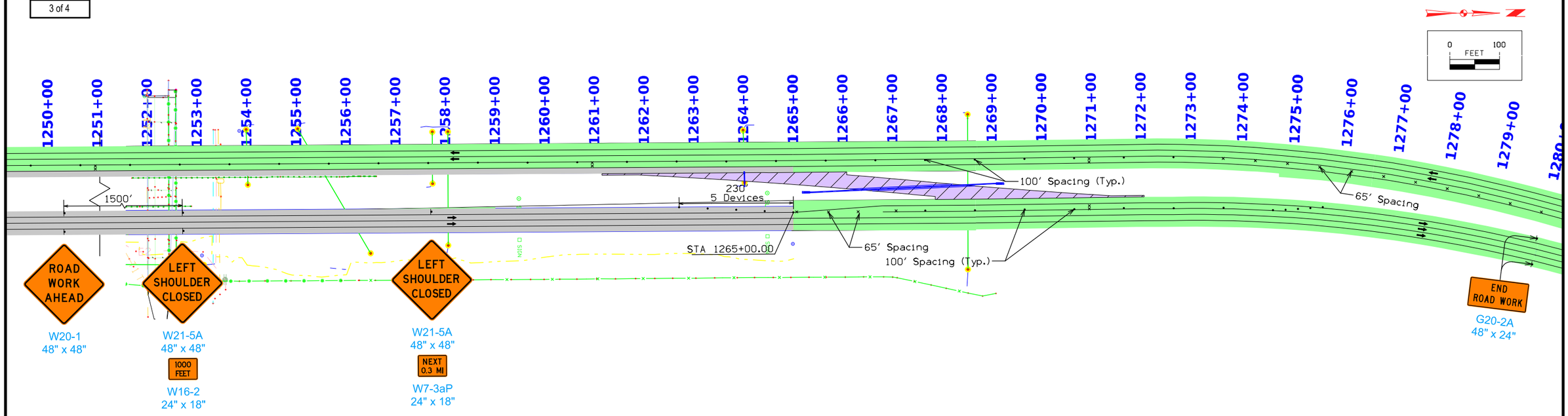
STAGE 4
2 of 4



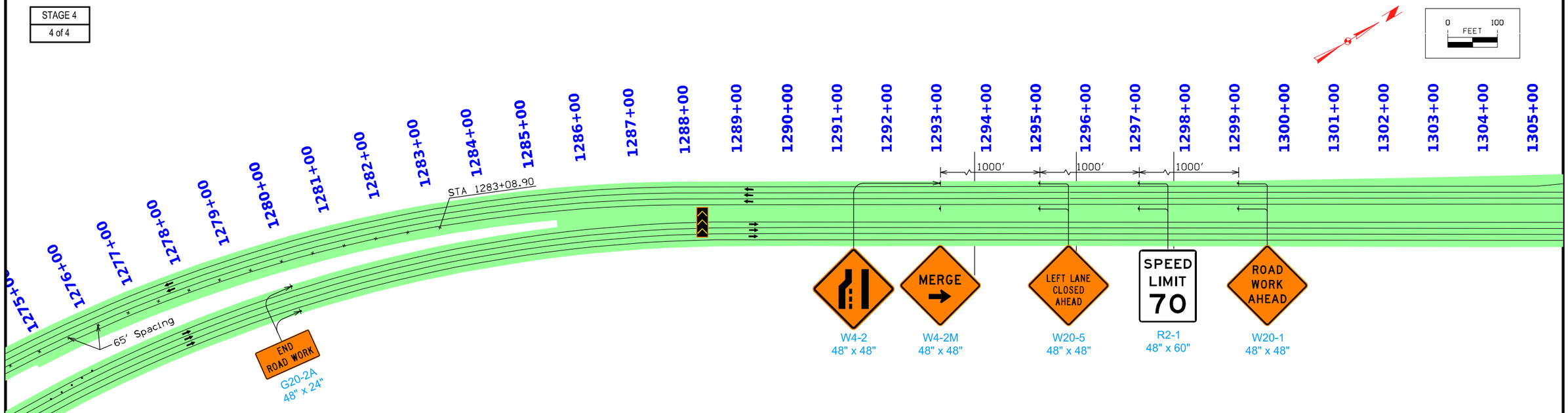
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SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

STAGE 4
3 of 4



STAGE 4
4 of 4



FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.19

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

STAGE 5
1 of 3

ROAD WORK AHEAD
W20-1
48" x 48"

SPEED LIMIT 70
R2-1
48" x 60"

RIGHT LANE CLOSED AHEAD
W20-5
48" x 48"

W4-2
48" x 48"

1113+00 1114+00 1115+00 1116+00 1117+00 1118+00 1119+00 1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00 1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00 1144+00

800′ 800′ 1000′ 1000′

STA 1127+69.65

65′ Spacing

STA 1143+69.77
Begin Taper

ROAD WORK AHEAD
W20-1
48" x 48"

SPEED LIMIT 70
R2-1
48" x 60"

RIGHT LANE CLOSED AHEAD
W20-5
48" x 48"

MERGE
W4-2M
48" x 48"

EXIT CLOSED 1/2 MILE
W20-3
48" x 48"

0 100
FEET

STAGE 5
2 of 3

1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00 1166+00 1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00

STA 1152+09.68
End Taper

65′ Spacing

STA 1151+20.53
Begin TBR
Install Temp. Crash Cushion

STA 1154+20.53
End TBR

EXIT CLOSED
E5-2a
48" x 36"

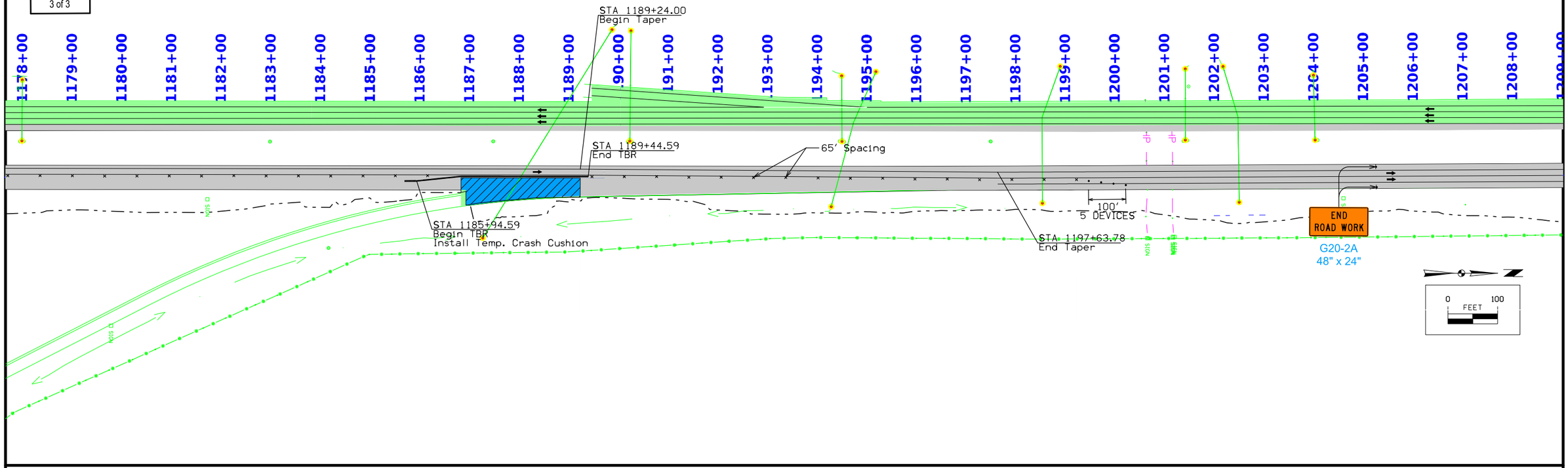
SIGN

0 100
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.20

10:07:40 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J20toJ21.dgn

STAGE 5
3 of 3



FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**WARREN** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **J.21**	

9:58:36 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J20toJ21.dgn

LINN TWN.
T-77N R-25W
SEC. 18

1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00

Interstate 35

Ramp B

POB 2546+13.92

Point M on SRP PV-410
Sta 2553+94.61

End Construction
Sta 2554+94.99

PC 2554+94.99

2547+00 2548+00 2549+00 2550+00 2551+00 2552+00 2553+00 2554+00 2555+00 2556+00 2557+00 2558+00

Sta. 1143+22.34
5' X 4' X 234.4' RCBC
60" X 142' RCP
SKEW=29 RT AH

0 50
FEET

Refer to Standard Road Plan PV-410 for
Ramp Taper Staking Information

Δ = 30°41'38.17" (RT)
T = 356.79'
L = 696.42'
R = 1300.00'
E = 48.07'
e = 6.0%
L = 186'
x = 62'

RAMP B

945 940 935 930 925 920 915 910

Point M on SRP PV-410
Sta 2553+94.61
Elev = 929.16

Proposed Profile Grade

End Construction
Sta 2554+95.00
Elev = 929.88

Existing Ground Line

V-Ditch

U.A.C.

Lt Med Rt

929.52 929.54 929.63 929.72 929.81 929.88

2543+00 2544+00 2545+00 2546+00 2547+00 2548+00 2549+00 2550+00 2551+00 2552+00 2553+00 2554+00 2555+00 2556+00 2557+00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER K.1

4:28:39 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_K01.dgn

LINN TWN.
T-77N R-25W
SEC. 07

Interstate 35

Ramp D

Point F on SRP PV-411
Sta 4586+96.34

Sta. 1188+02.59
42" X 477.52' RCP
SKEW=31 LT AH
(U.A.C.)

Sta. 1194+43.88
30" X 275' RCP
SKEW=15 LT AH
(U.A.C.)

Sta. 1198+53.79
30" X 269.60' RCP
(U.A.C.)

0 50 FEET

RAMP D

Existing Ground Line

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER K.2

10:38:43 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_K02.dgn

LINE STYLE LEGEND OF LANDSCAPE SHEETS

LINESTYLE	Design Element
– – – – – – – – – – – –	Living Snow Fence Single Row
⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯	Living Snow Fence Double Row
———	Mechanical Edge

CELL LEGEND OF LANDSCAPE SHEETS

CELL	Design Element	Plant Diameter
	Clearing	
	Proposed Shrub	
	Proposed Understory Tree	
	Proposed Conifer Tree	
	Proposed Overstory Tree	

PATTERN LEGEND OF LANDSCAPE SHEETS

Brush Clearing

Spray Area

Clearing & Grubbing

LINE STYLE LEGEND OF EROSION CONTROL SHEETS

LINESTYLE	Design Element
	Silt Fence
9	Perimeter and Slope Sediment Control Device (9")
12	Perimeter and Slope Sediment Control Device (12")
20	Perimeter and Slope Sediment Control Device (20")
	Open-Throat Curb Intake Sediment Filter
	Concentrated Flow
	Rock Check and Rock Check Dam
	Sheet Flow

CELL LEGEND OF EROSION CONTROL SHEETS

CELL	Design Element
	Temporary Sediment Control basin
	Erosion Control for Circular Intake or Manhole Well
	Erosion Control for Rectangular Intake or Manhole Well
	Grate Intake Sediment Filter Bag
	Silt Basin
	Silt Fence Tail
	Stormwater Drainage Basin Discharge Point

PLAN VIEW COLOR LEGEND OF EROSION CONTROL SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
Black	(0)	Permanent Erosion Control Features
Blaze Orange	(222)	Temporary Erosion Control Features

SHADING	Design Color No.		Transparency
Citron	(234)	Mulching, All Types	50%
Light Brown	(238)	Special Ditch Control, Wood Excelsior Mat	0%
Grass Green	(233)	8FT Mow Strip	50%
Red	(3)	Delineates Restricted Areas	0%

PATTERN LEGEND OF EROSION CONTROL SHEETS

Seeding and Fertilizing

R — Seeding and Fertilizing (Rural)

U — Seeding and Fertilizing (Urban)

N — Native Grass Seeding

ST — Salt Tolerant Seeding

WL — Wetland Grass Seeding

WF — Wildflower Seeding

SOD — Sodding

Turf Reinforcement Mat Type 1

Turf Reinforcement Mat Type 2

Turf Reinforcement Mat Type 3

Turf Reinforcement Mat Type 4

Slope Protection, Wood Excelsior Mat

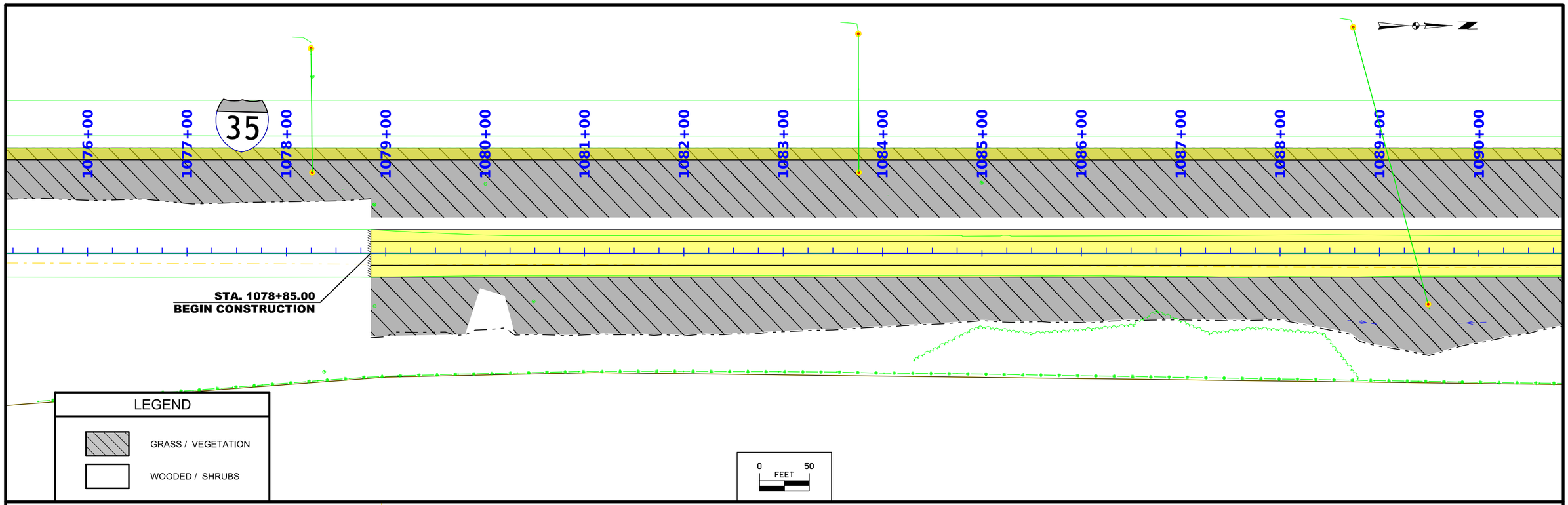
Transition Mat

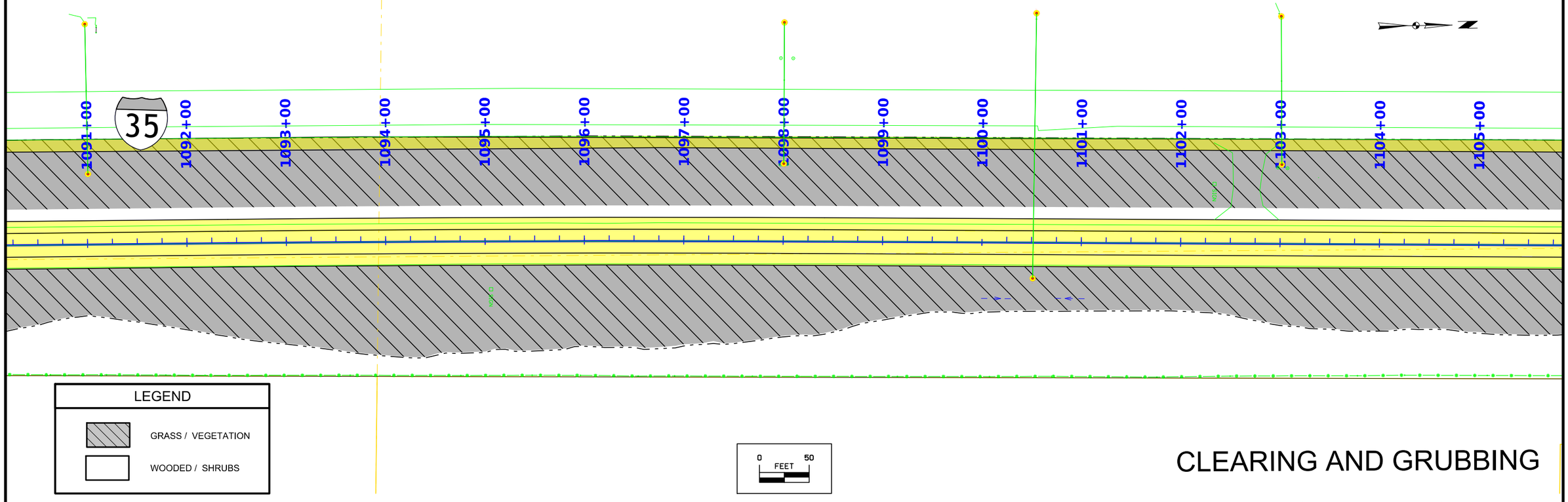
Rock Features, Permanent

Rock Features, Temporary

EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES R)

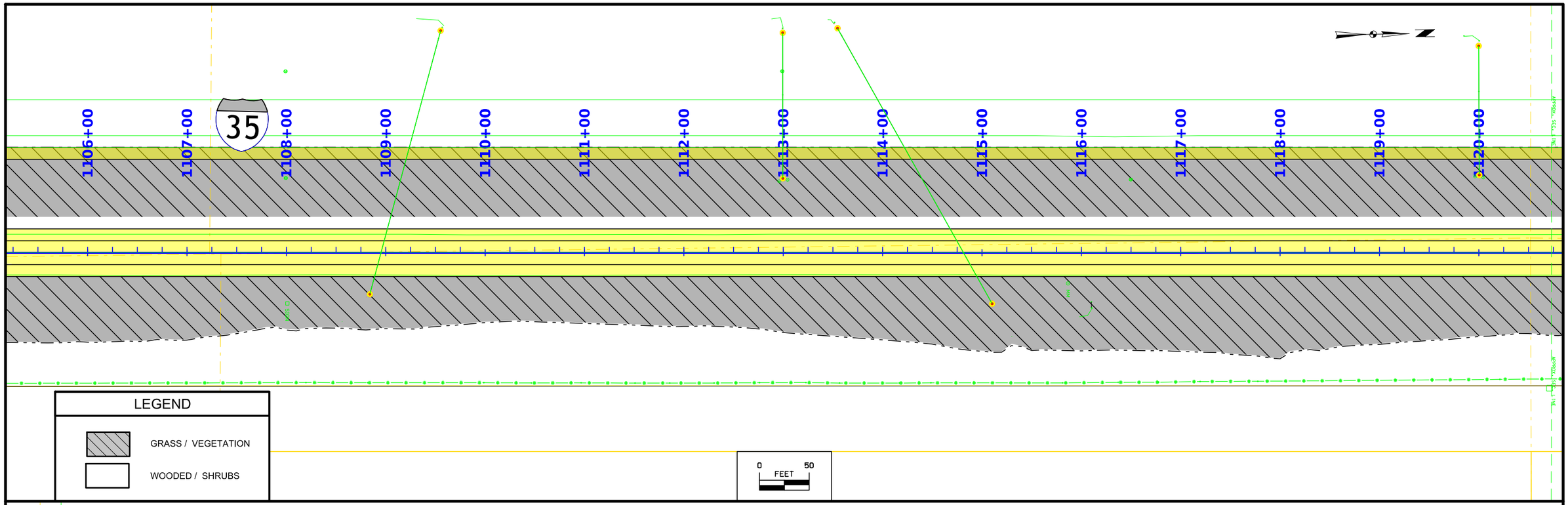


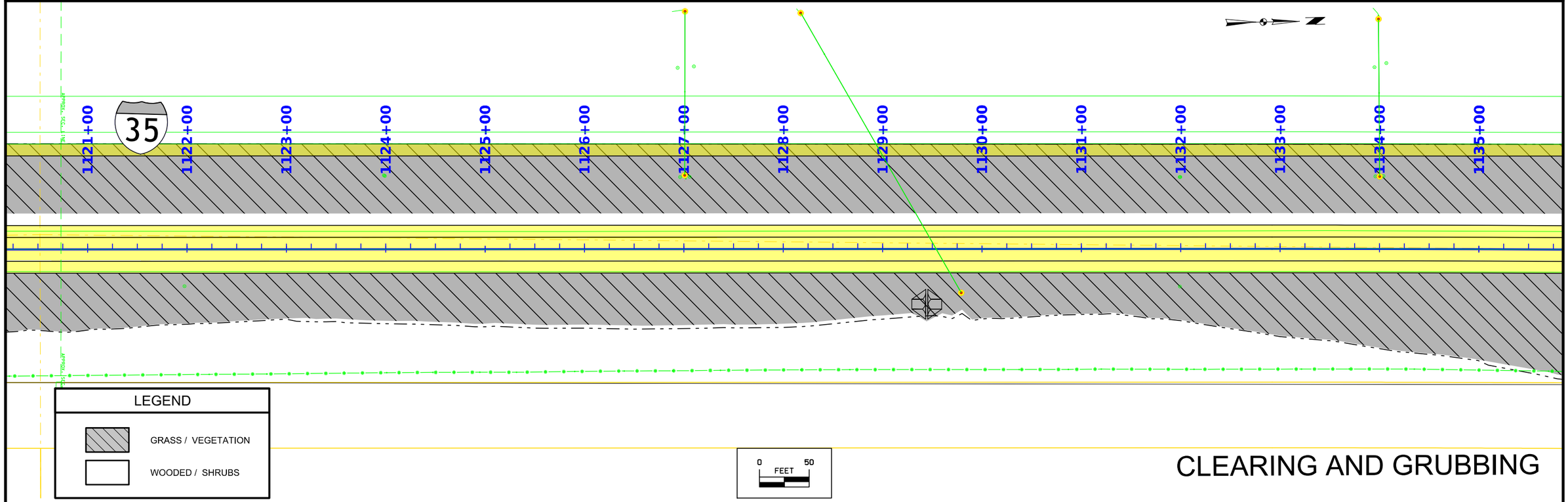


CLEARING AND GRUBBING

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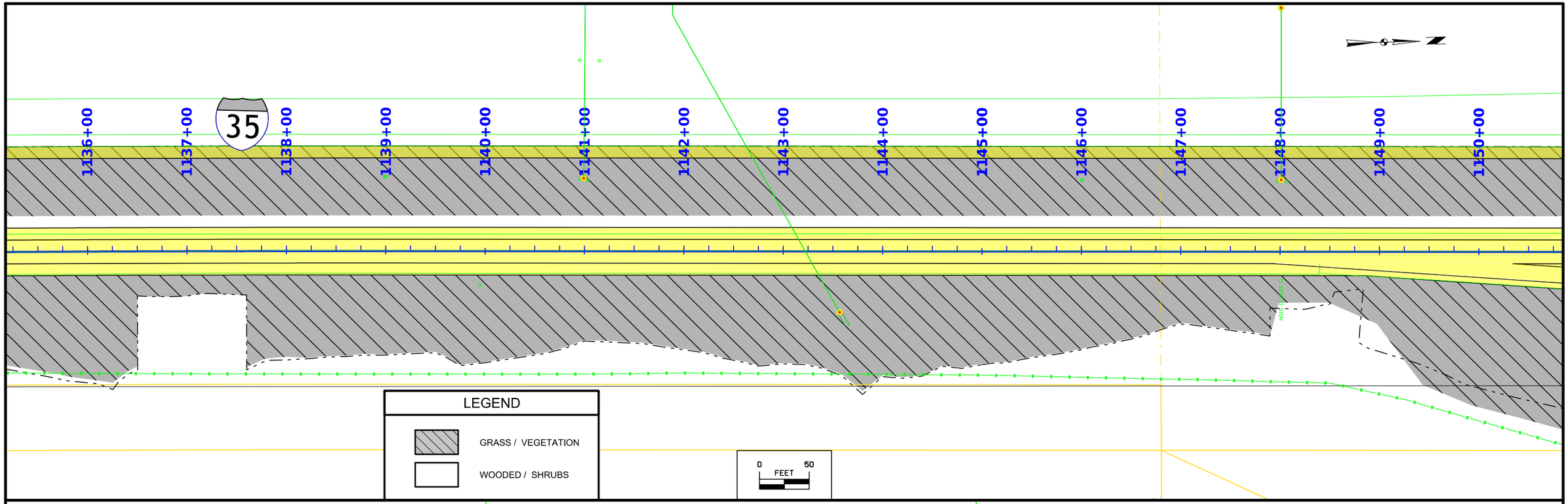


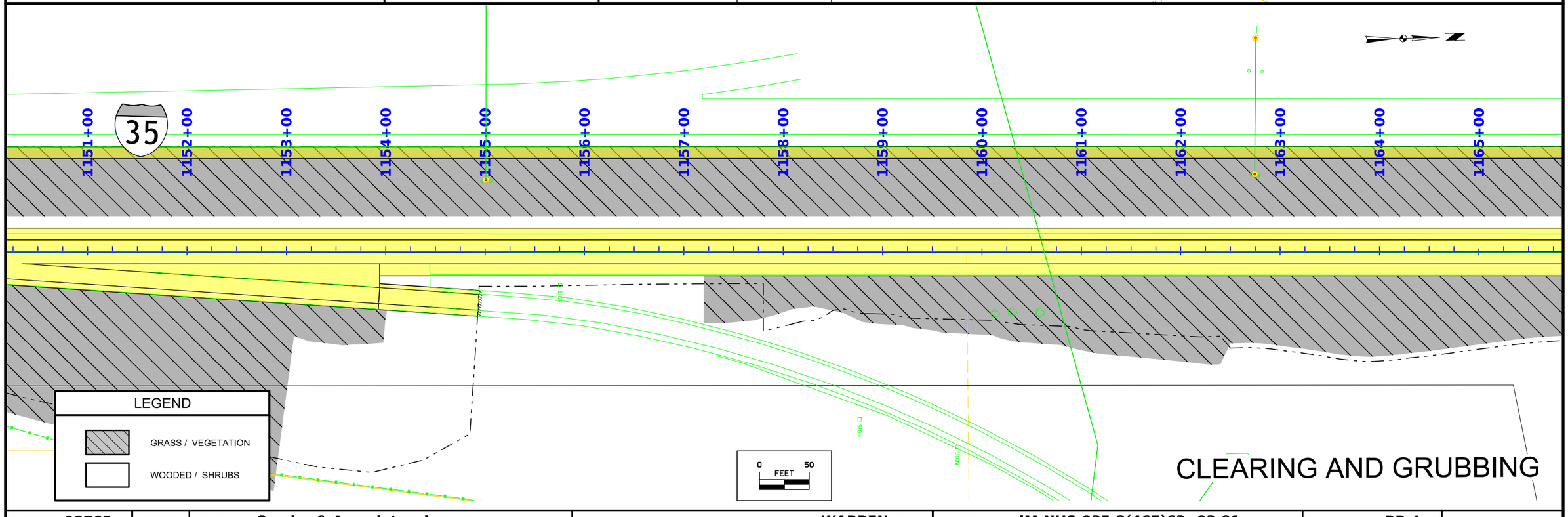


CLEARING AND GRUBBING

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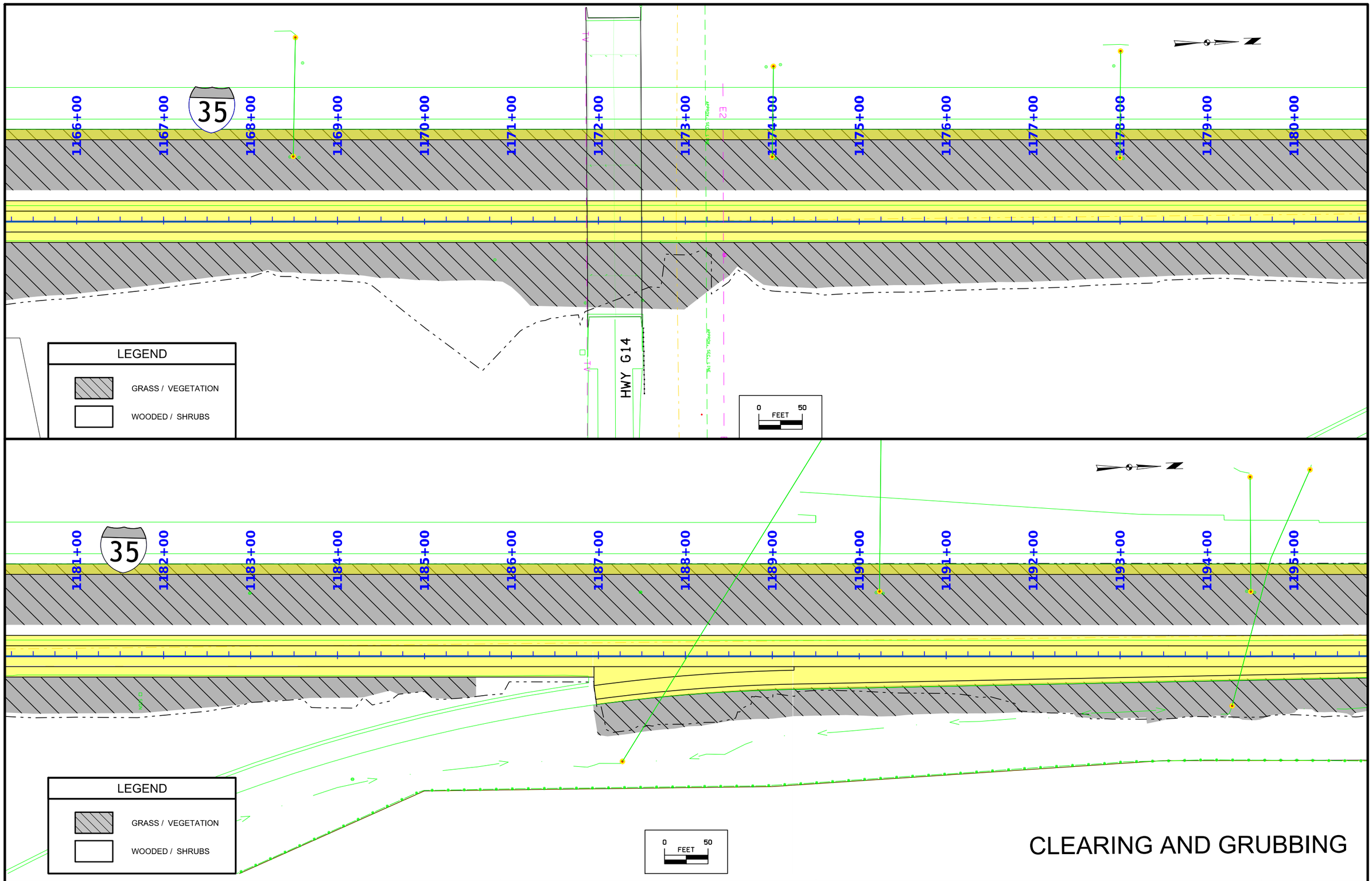




CLEARING AND GRUBBING

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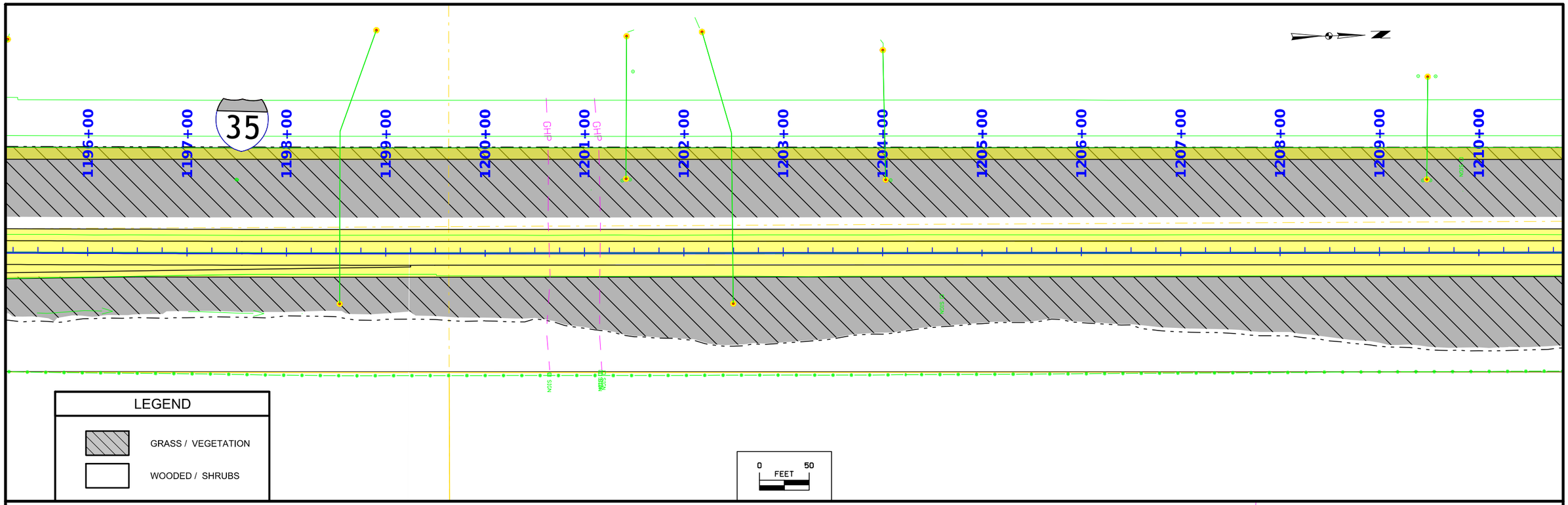
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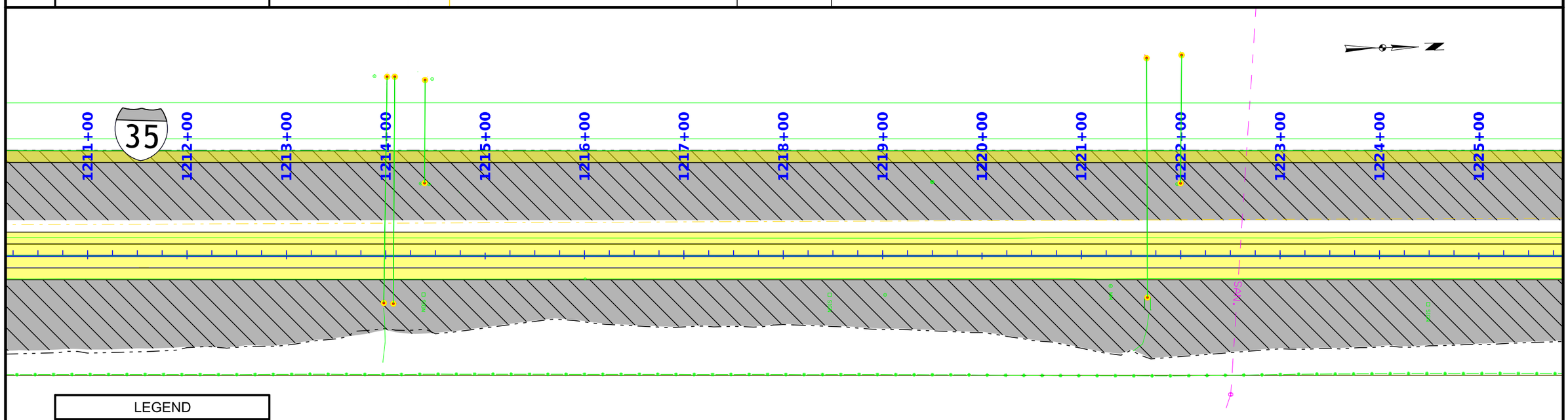


CLEARING AND GRUBBING

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER RR.5

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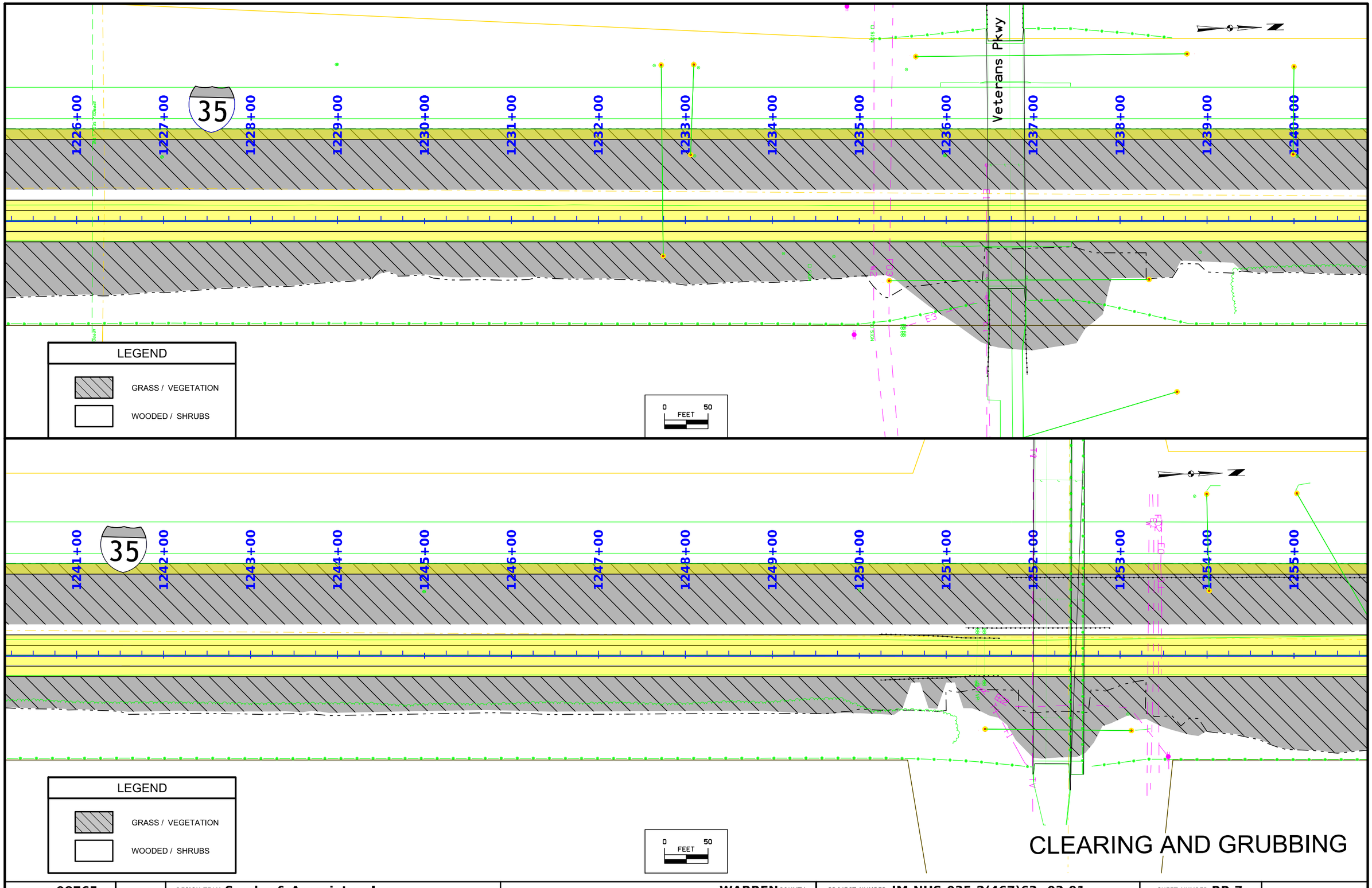




CLEARING AND GRUBBING

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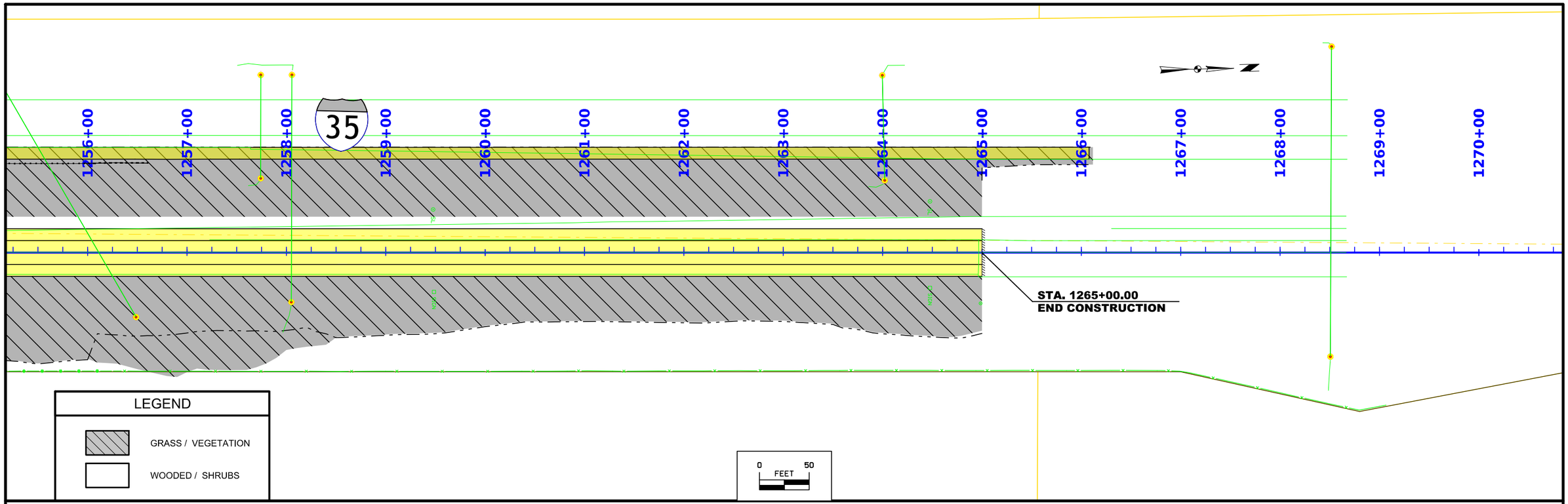
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CLEARING AND GRUBBING

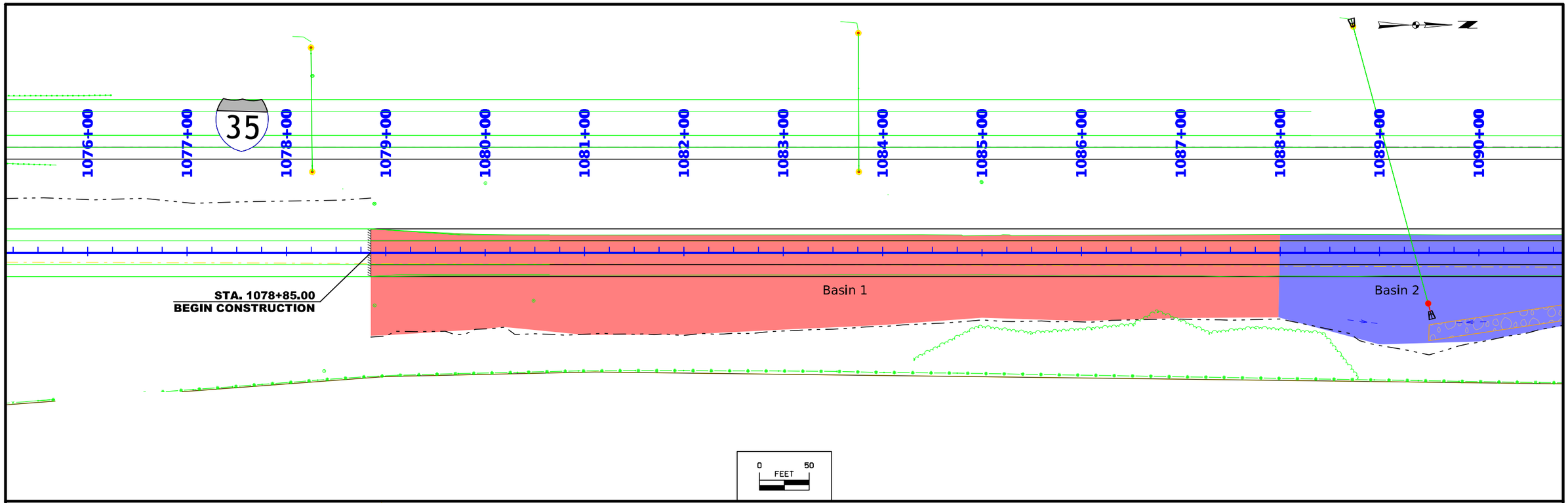
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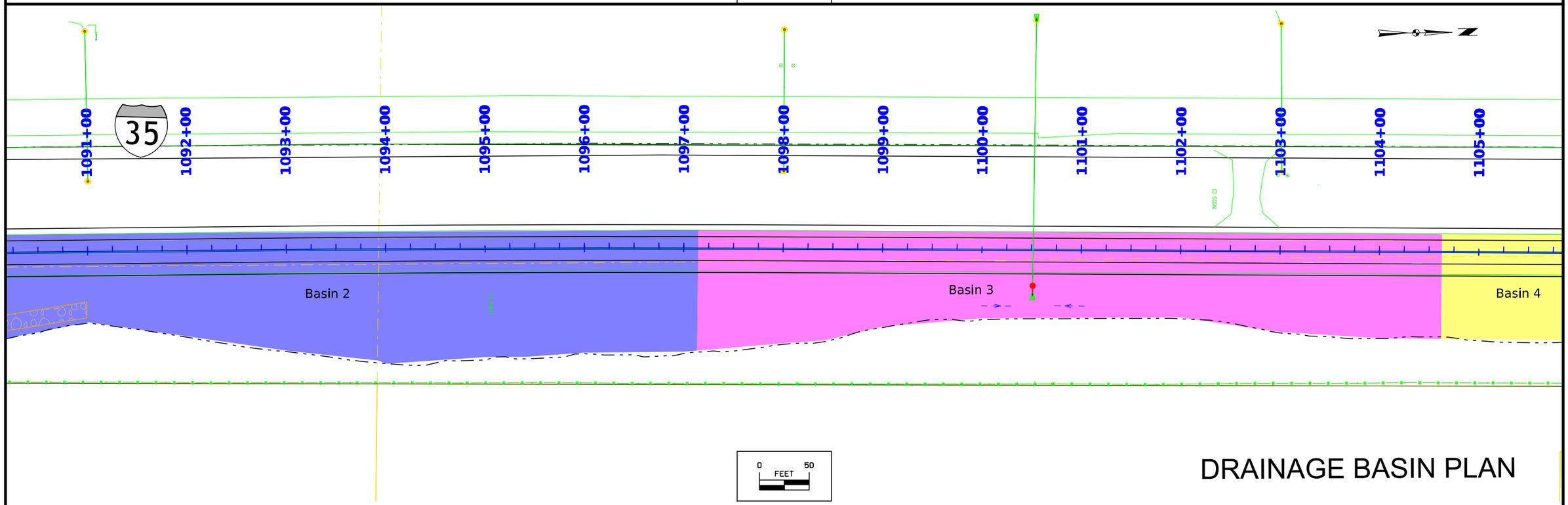
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FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER RR.8	

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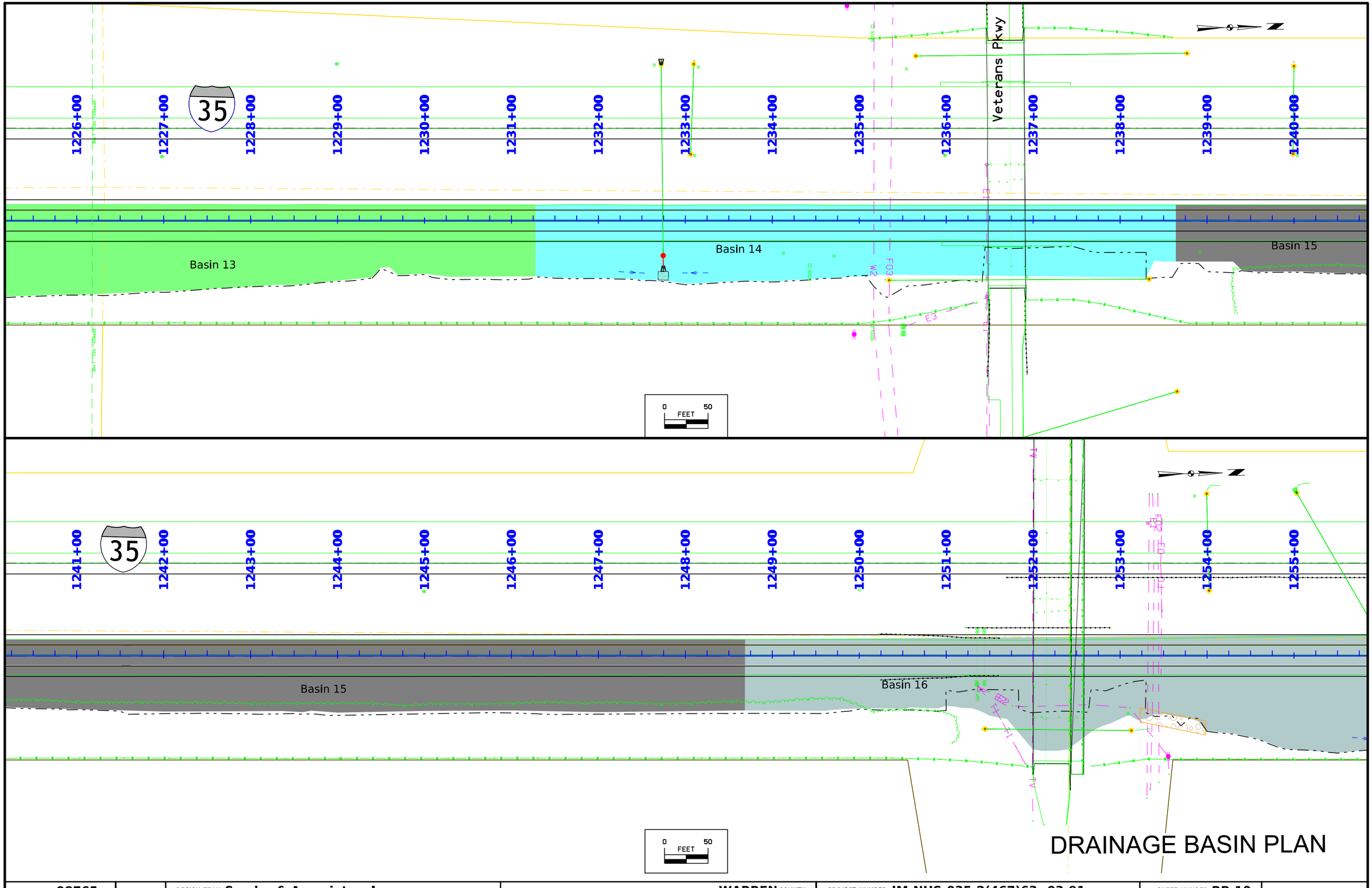




DRAINAGE BASIN PLAN

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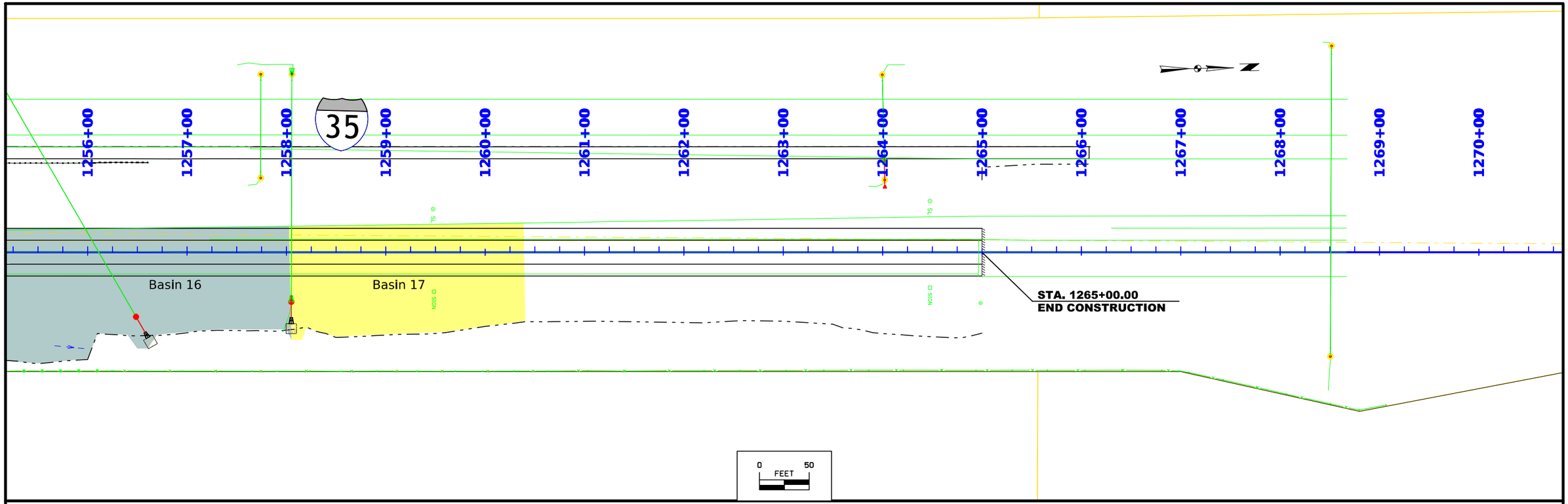
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DRAINAGE BASIN PLAN

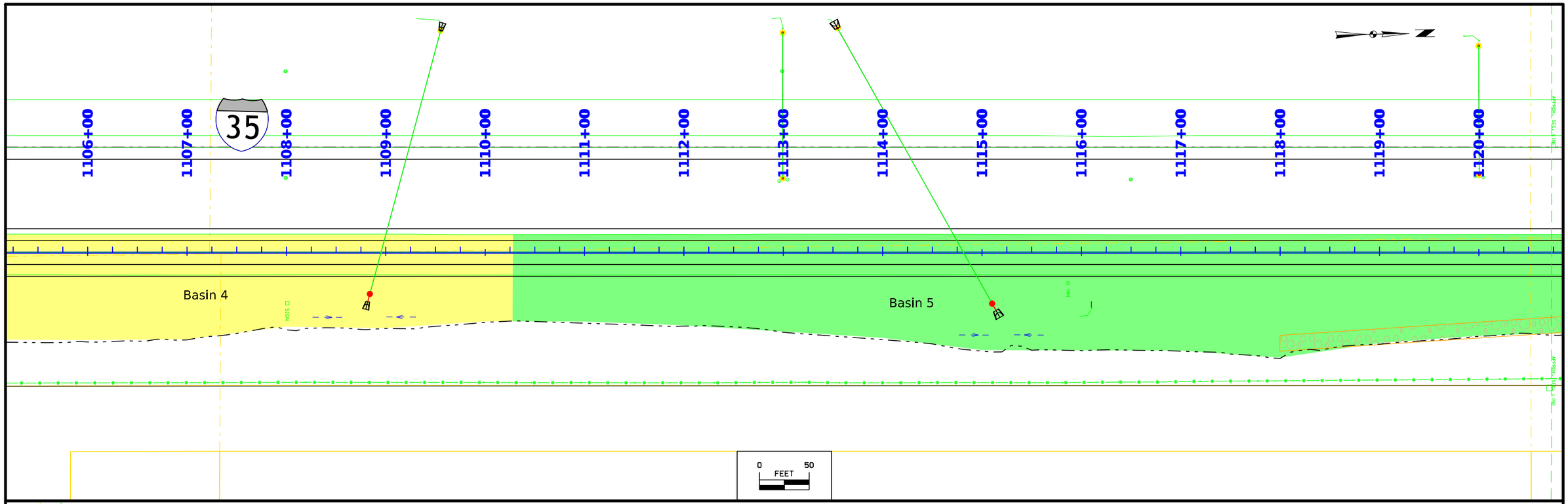
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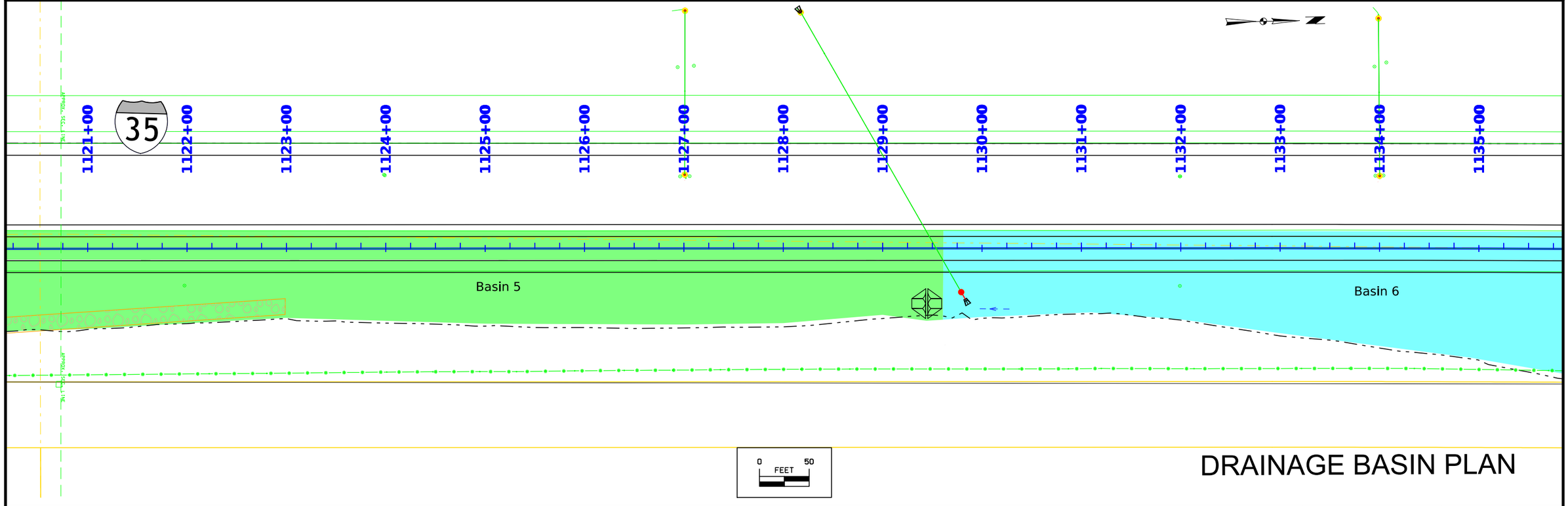
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FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER RR.11	

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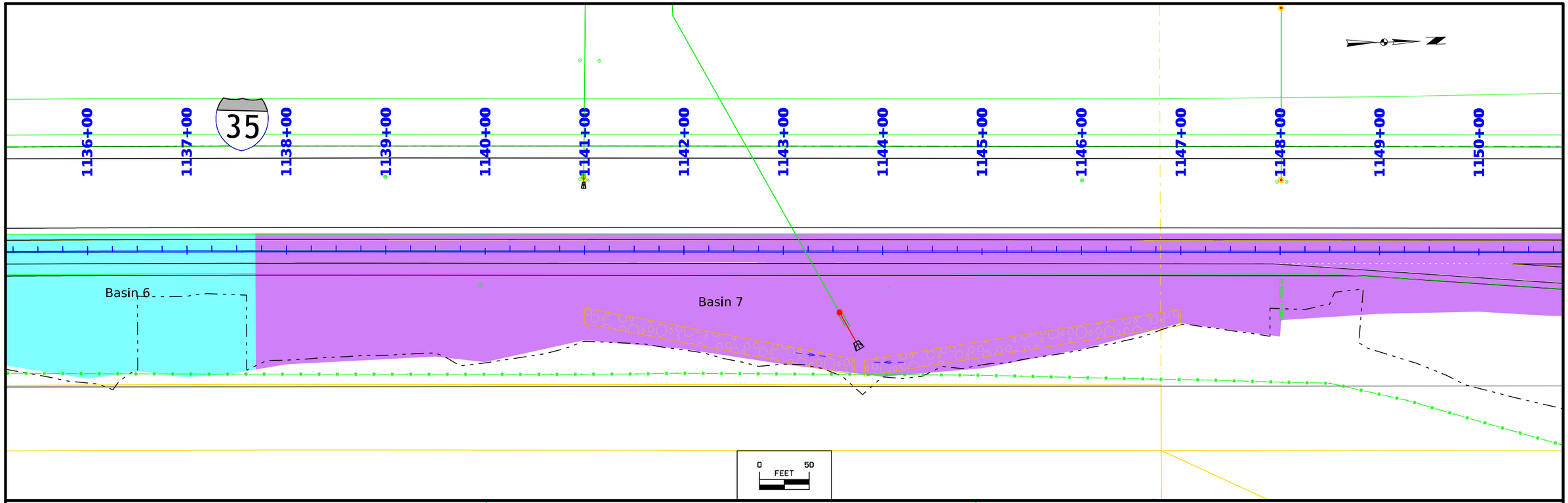


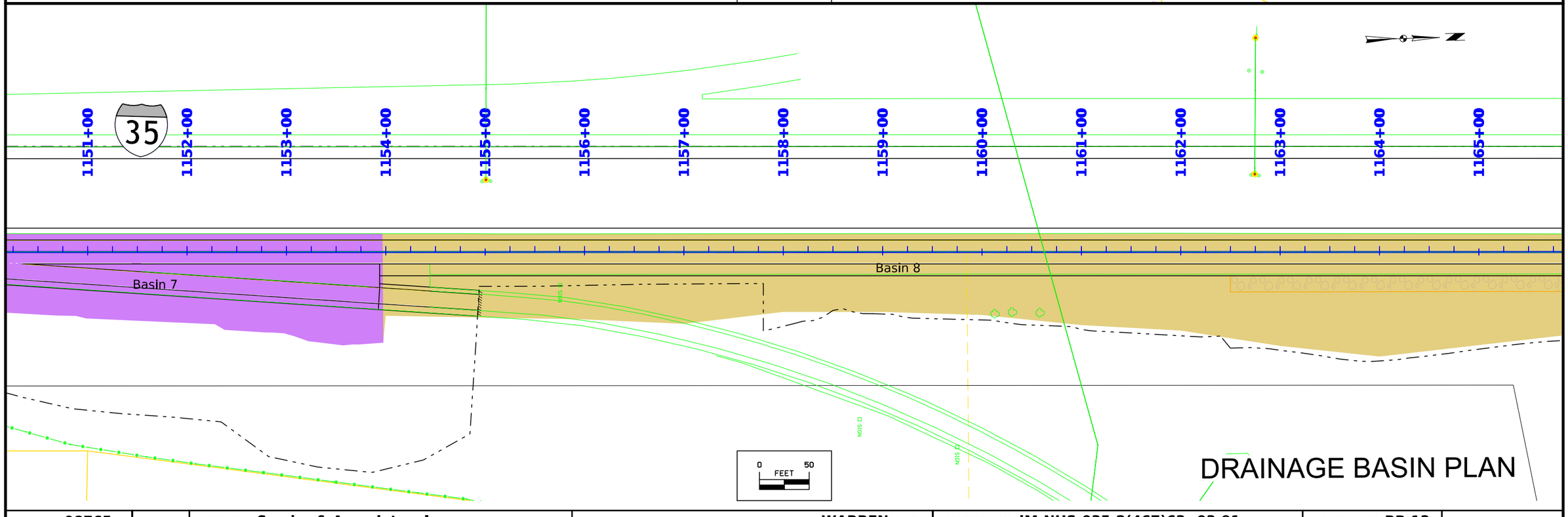


DRAINAGE BASIN PLAN

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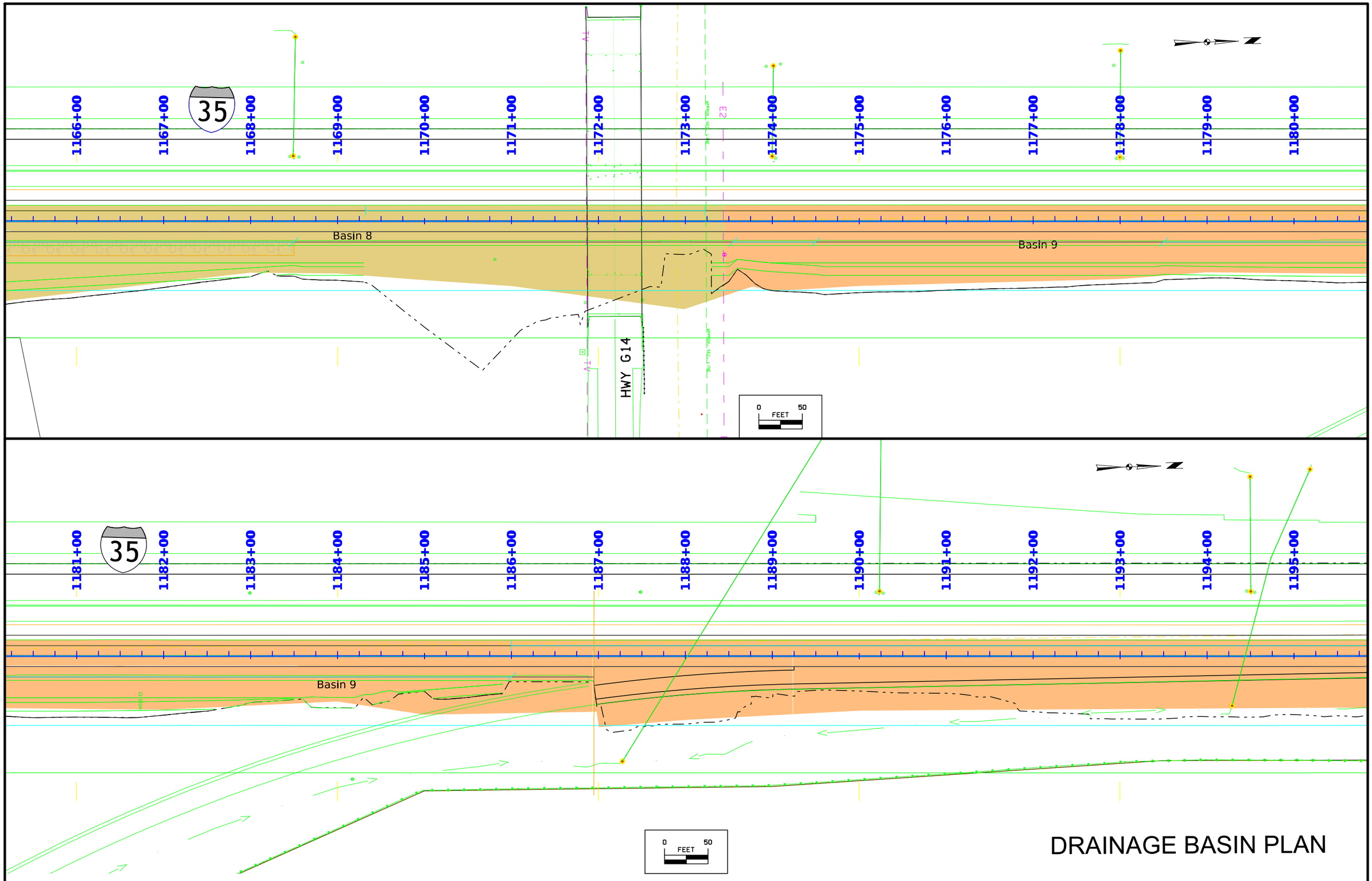




DRAINAGE BASIN PLAN

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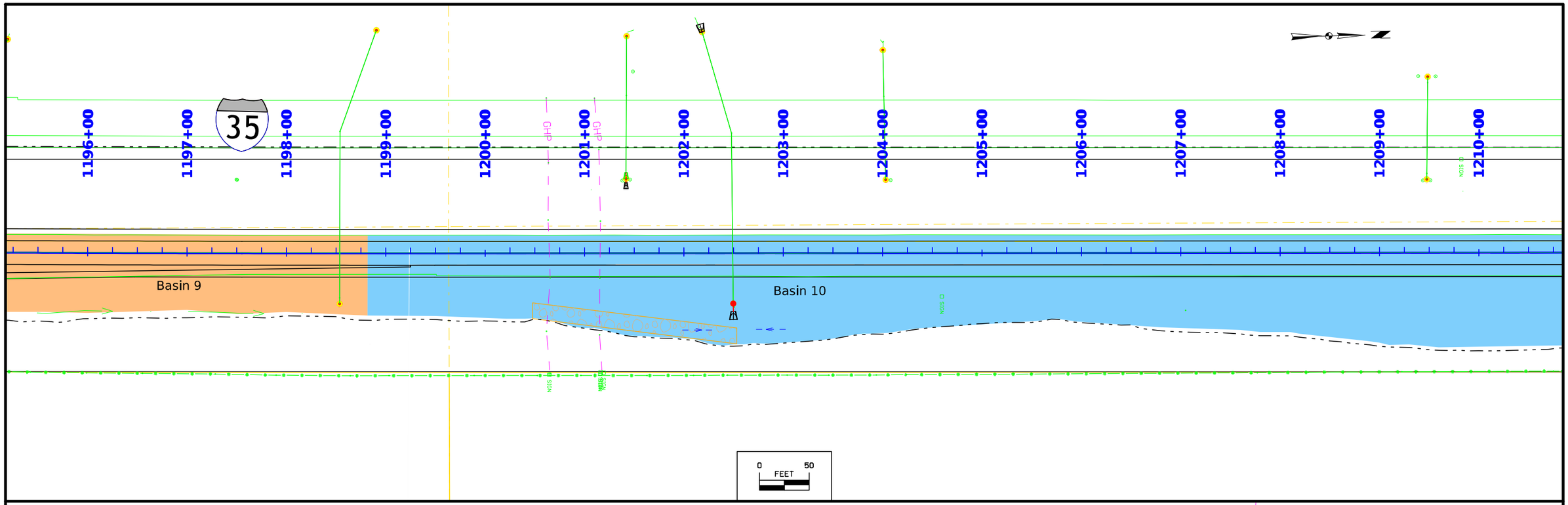
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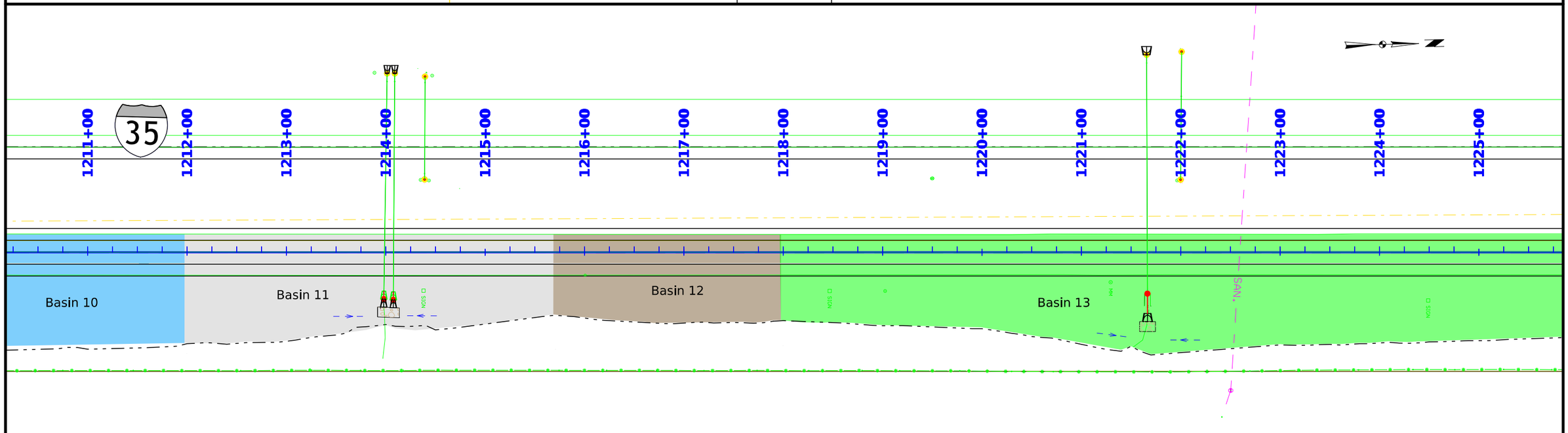


DRAINAGE BASIN PLAN

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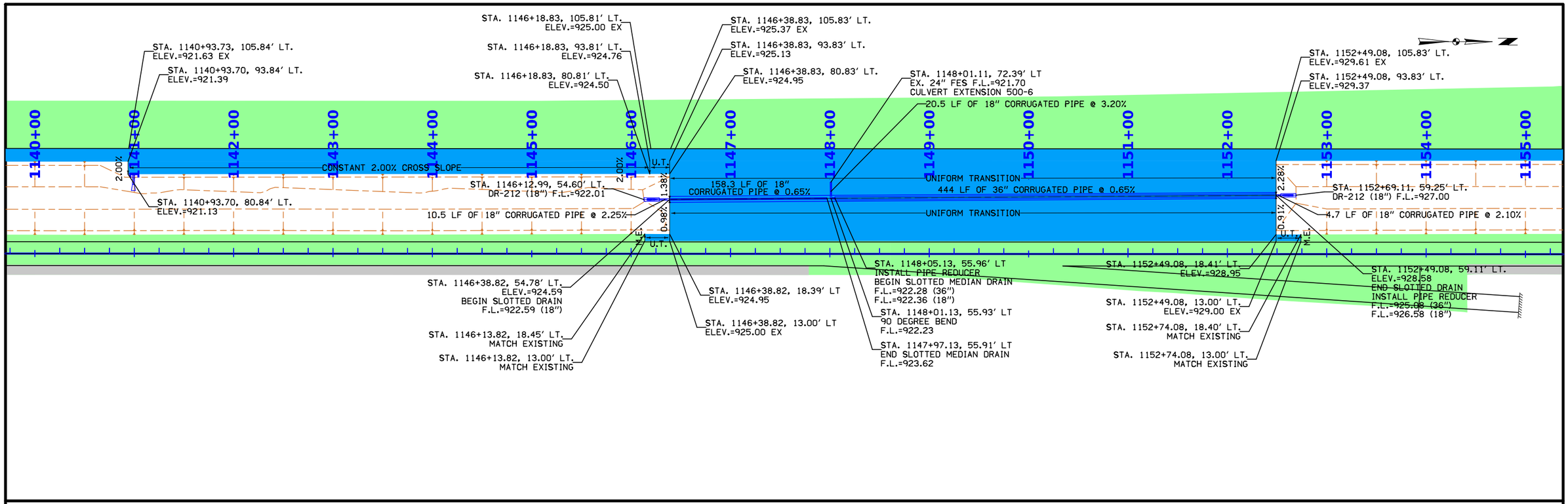




DRAINAGE BASIN PLAN

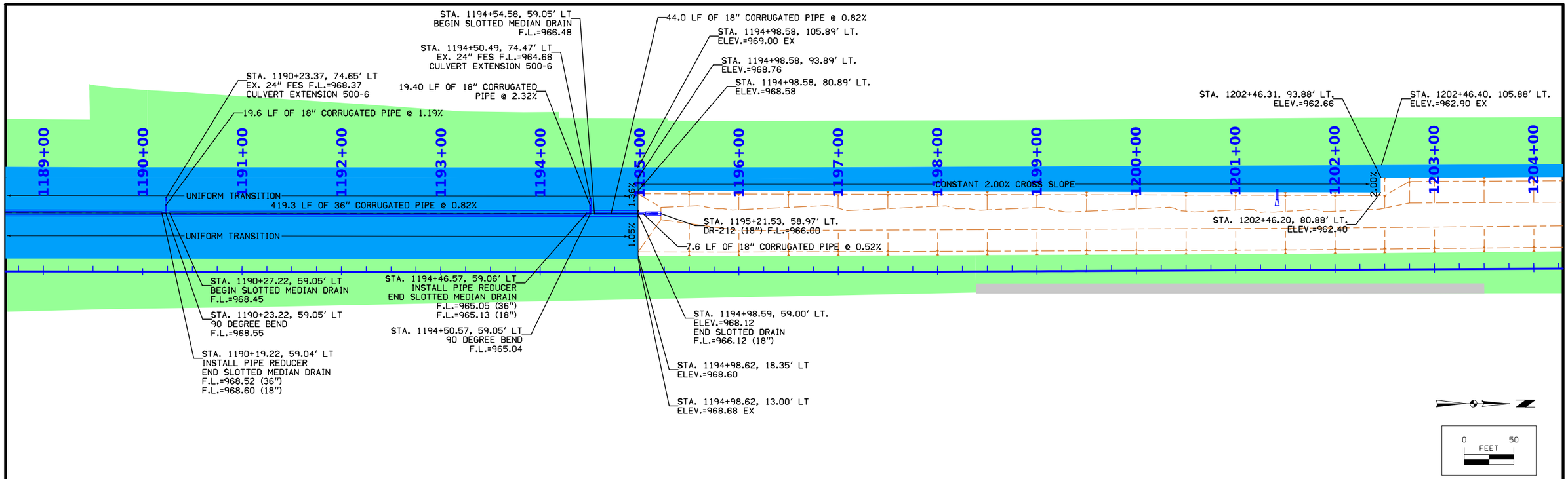
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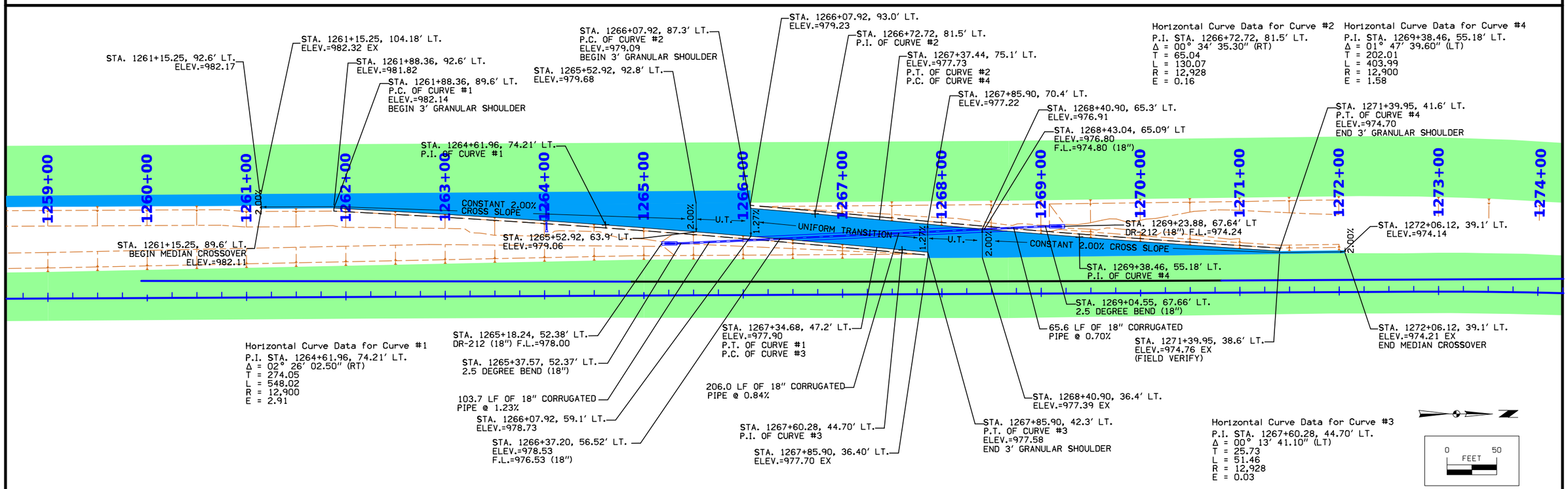
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FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER U.1

9:22:09 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_U01toU02.dgn





Horizontal Curve Data for Curve #1
P.I. STA. 1264+61.96, 74.21' LT.
Δ = 02° 26' 02.50" (RT)
T = 274.05
L = 548.02
R = 12,900
E = 2.91

Horizontal Curve Data for Curve #2
P.I. STA. 1266+72.72, 81.5' LT.
Δ = 00° 34' 35.30" (RT)
T = 65.04
L = 130.07
R = 12,928
E = 0.16

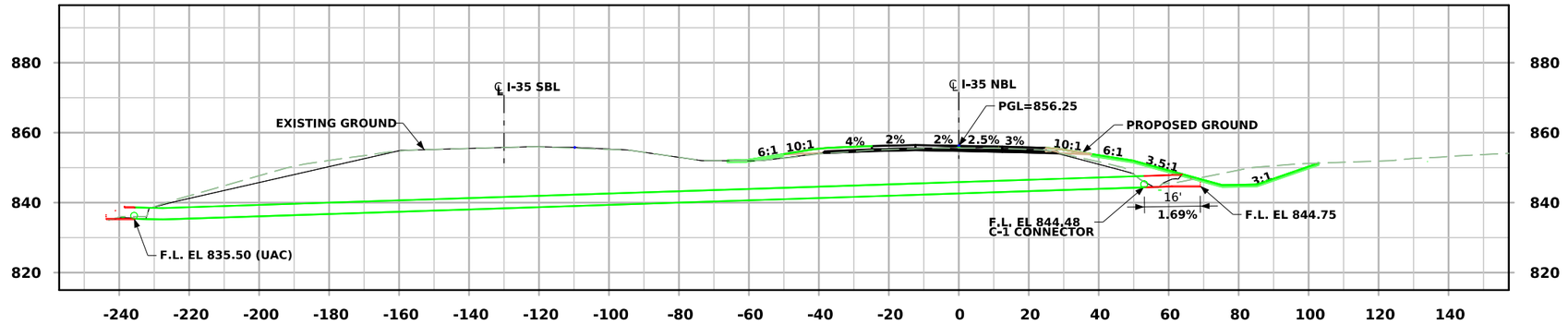
Horizontal Curve Data for Curve #3
P.I. STA. 1267+60.28, 44.70' LT.
Δ = 00° 13' 41.10" (LT)
T = 25.73
L = 51.46
R = 12,928
E = 0.03

Horizontal Curve Data for Curve #4
P.I. STA. 1269+38.46, 55.18' LT.
Δ = 01° 47' 39.60" (LT)
T = 202.01
L = 403.99
R = 12,900
E = 1.58

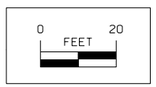
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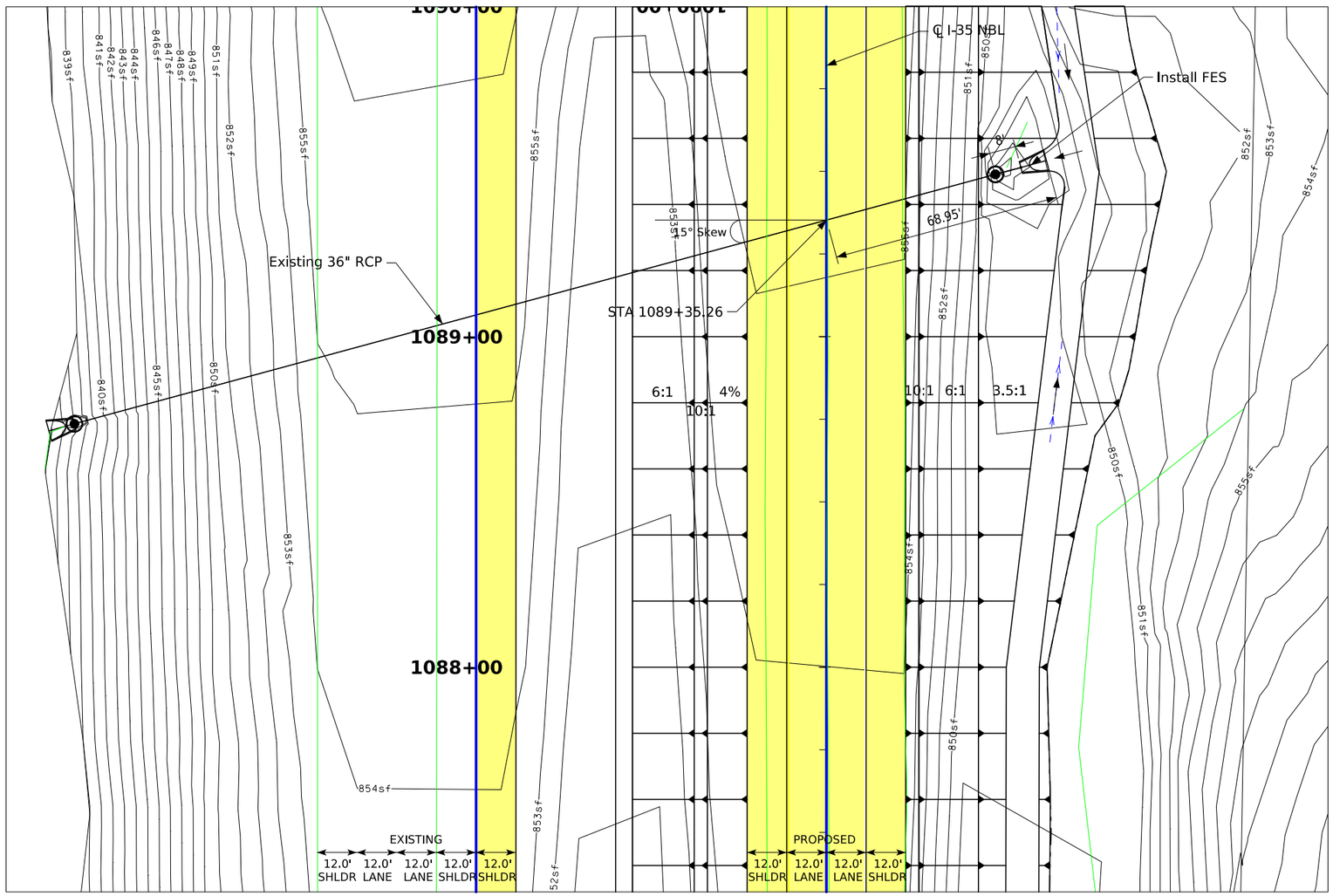
Control Point: CP901
Easting: 1563820.86
Northing: 535238.30
Elevation: 874.17
Description:
FENO MONUMENT
+/- 5 FT N OF GAURD RAIL
+/- 5 FT W OF 15TH AV
+/- N OR COOLIDGE STREET



LONGITUDINAL SECTION ALONG ℄ CULVERT







PLAT PLAN

Hydraulic Data

RIDB: "StreamID_Rivermile" or "Not Applicable"
Drainage Area = 13 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 19
Linn Township
Warren County

Design For 15 Degree RA

36" x 8'
Reinforced Concrete Pipe

Extension

STA. 1089+35.26 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

IOWA DEPARTMENT OF TRANSPORTATION

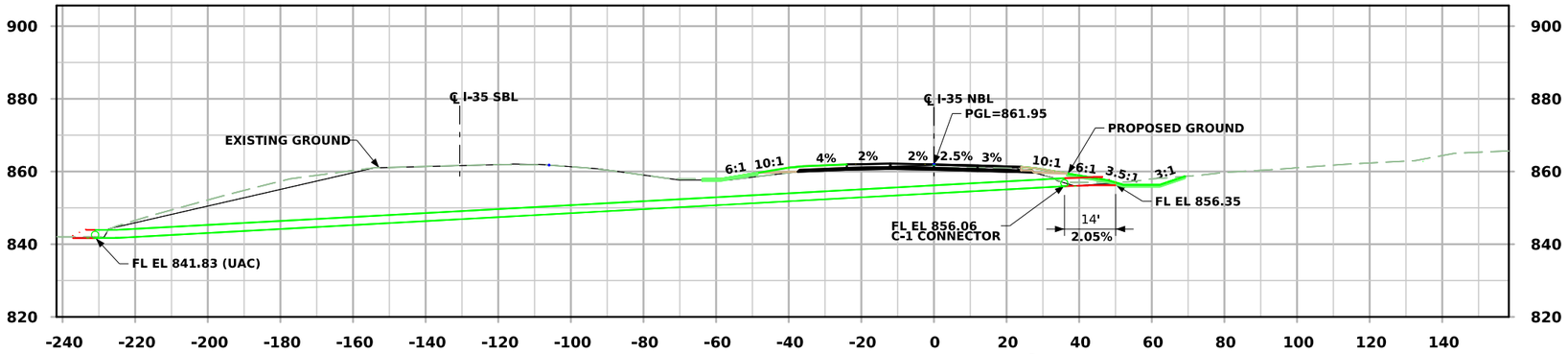
Design No. Design # Design Sheet No. 1 of 1

FHWA/Asset XXXXXX

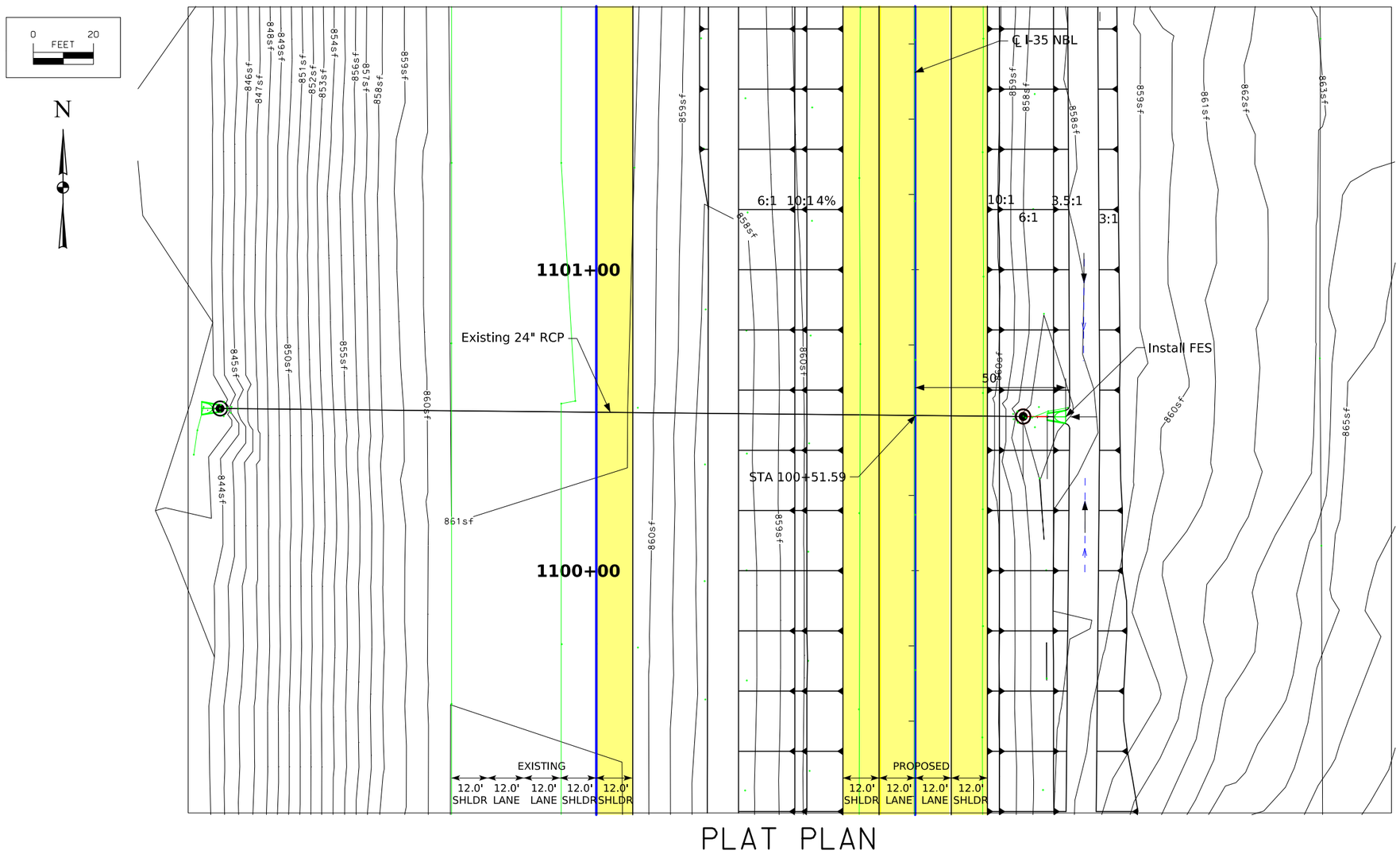
FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **V.1**	

9:22:32 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_V01toV16.dgn

Control Point: CP901
Easting: 1563820.86
Northing: 535238.30
Elevation: 874.17
Description:
FENO MONUMENT
+/- 5 FT N OF GAURD RAIL
+/- 5 FT W OF 15TH AV
+/- N OR COOLIDGE STREET



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 7.5 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 19
Linn Township
Warren County

Design For 0 Degree Skew

24" x 8'

Reinforced Concrete Pipe

Extension

STA. 1100+51.59 (I-35 NB)

Turn-in Date: Sept 02 2024

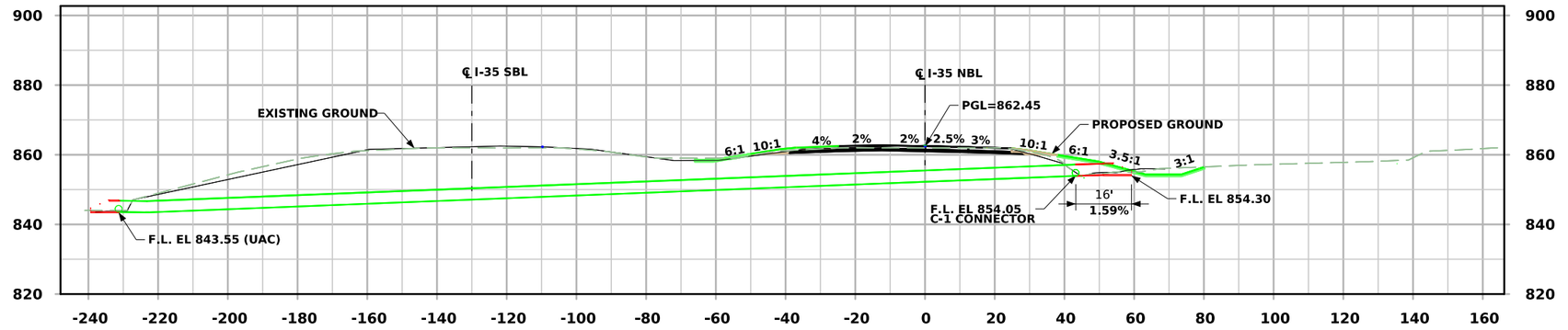
Warren County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

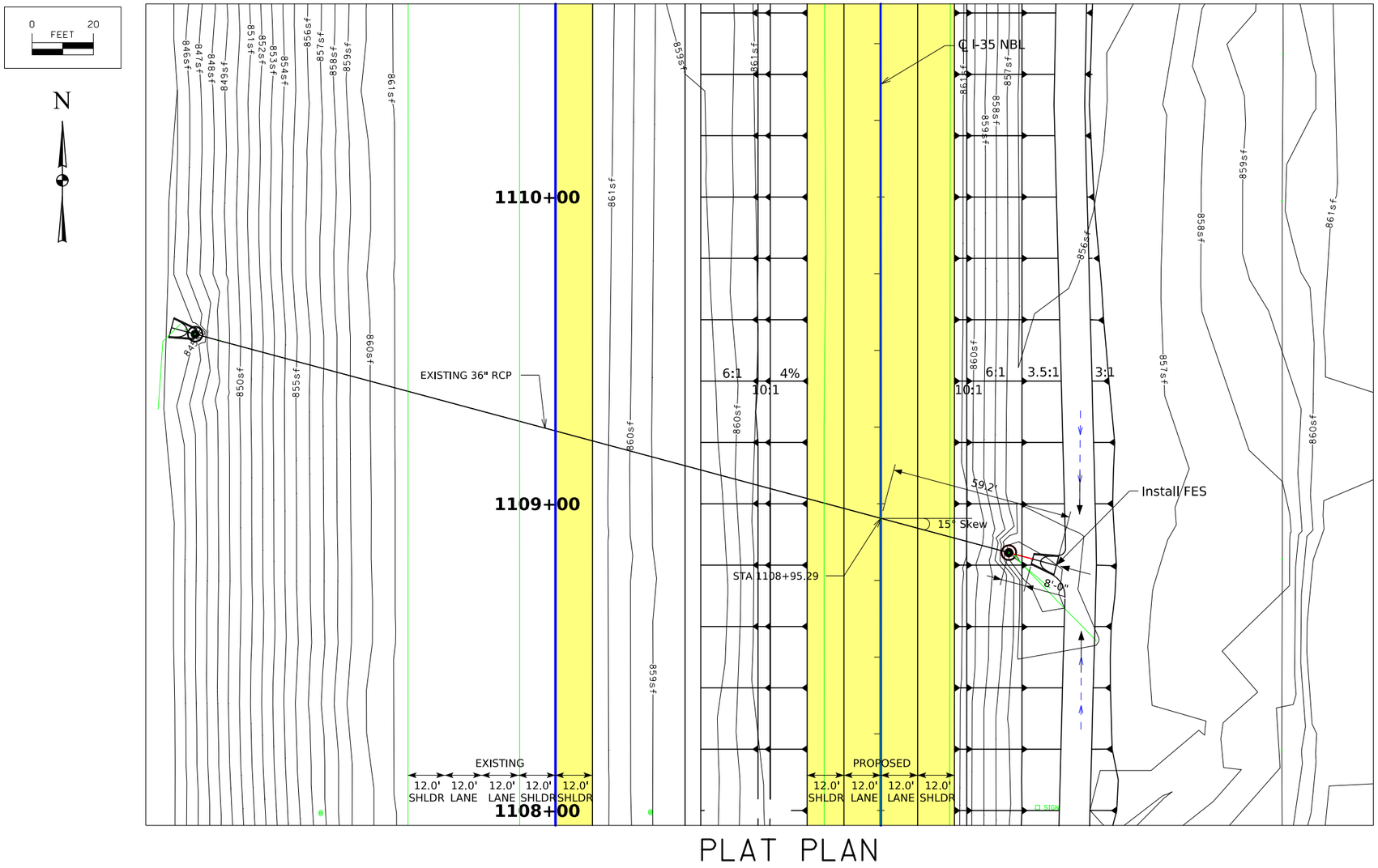
FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **V.2**	

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LONGITUDINAL SECTION ALONG ℄ CULVERT

Control Point: CP901
Easting: 1563820.86
Northing: 535238.30
Elevation: 874.17
Description:
FENO MONUMENT
+/- 5 FT N OF GAURD RAIL
+/- 5 FT W OF 15TH AVE
+/- N OR COOLIDGE STREET



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 17 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 19
Linn Township
Warren County

Design For 15 Degree LA

36" x 8'
Reinforced Concrete Pipe
Extension

STA. 1108+95.29 (I-35 NBL)
Turn-in Date: Sept 02 2024

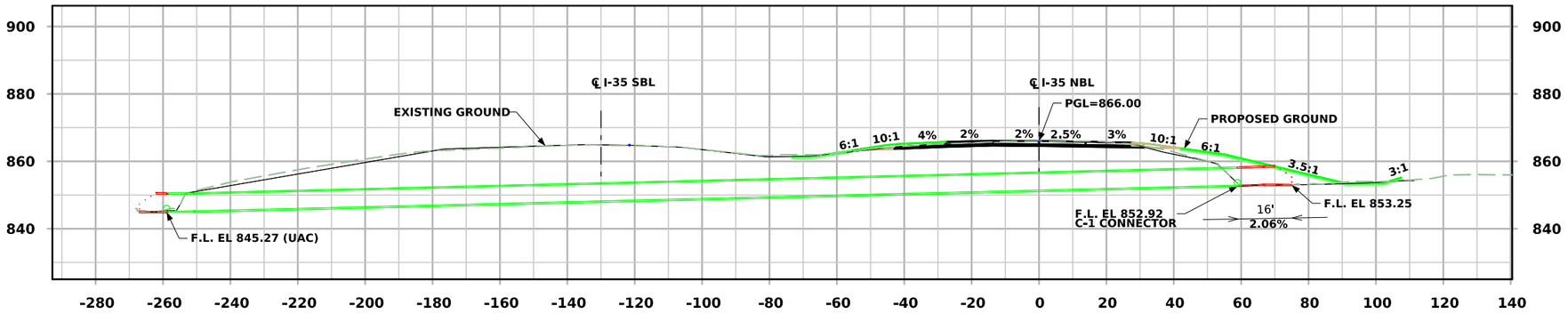
Warren County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

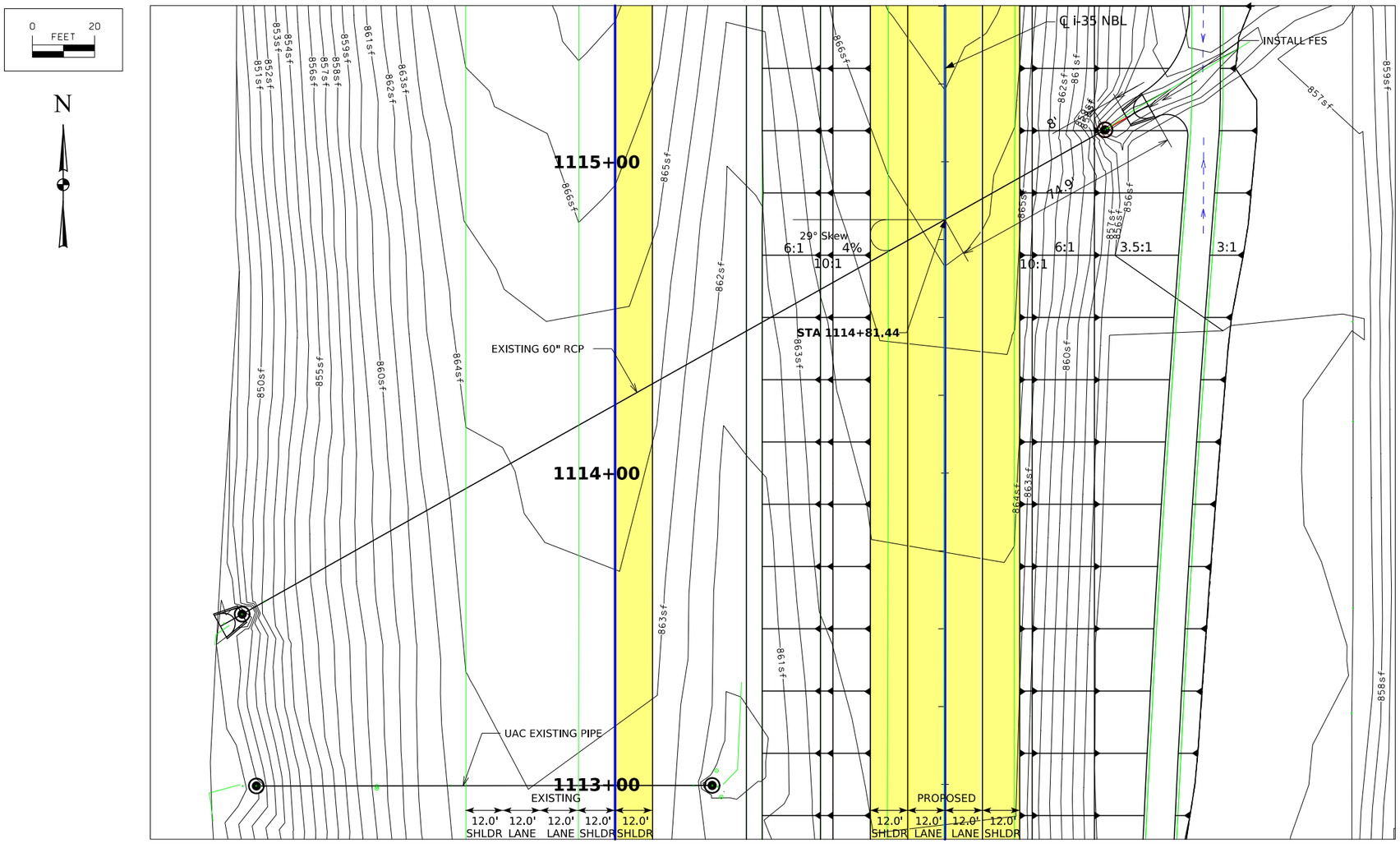
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LONGITUDINAL SECTION ALONG ℄ CULVERT

Control Point: CP901
Easting: 1563820.86
Northing: 535238.30
Elevation: 874.17
Description:
FENO MONUMENT
+/- 5 FT N OF GAURD RAIL
+/- 5 FT W OF 15TH AV
+/- N OR COOLIDGE STREET



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 67 Rolling Hilly Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 19
Linn Township
Warren County

Design For 29 Degree RA

60" x 8'
Reinforced Concrete Pipe

Extension

STA. 1114+81.44 (I-35 NBL)
Turn-in Date: Sept 02 2024

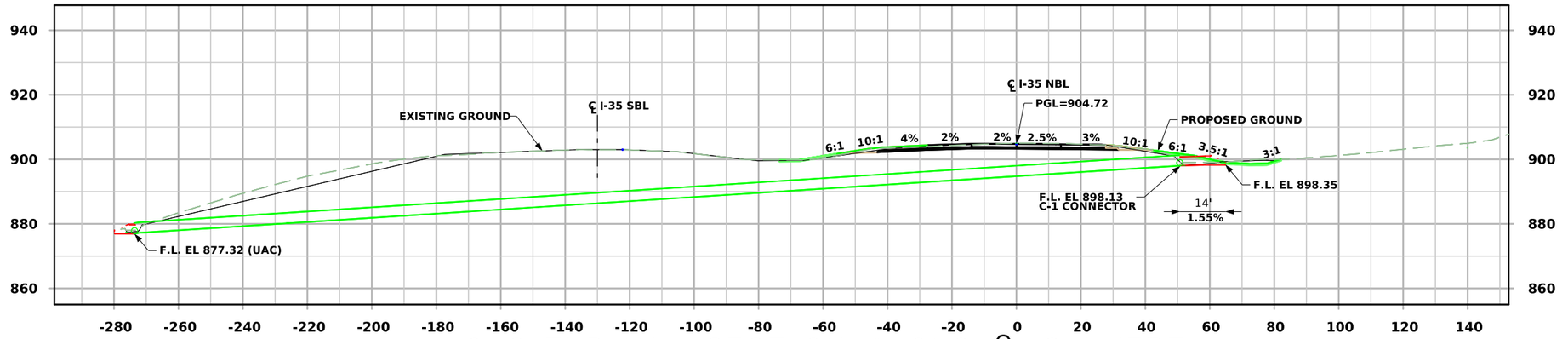
Warren County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

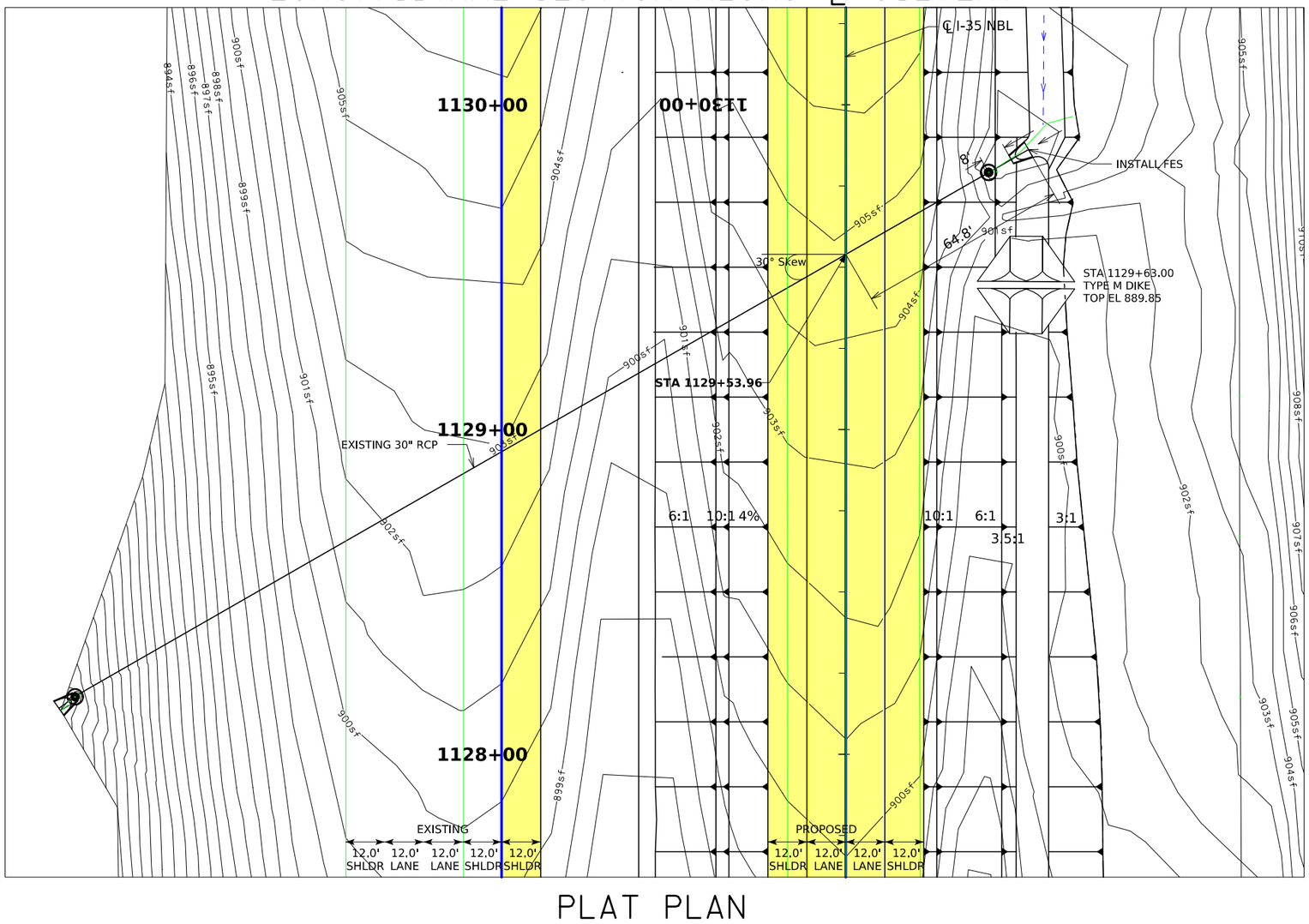
FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **V.4**

9:22:46 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_V01toV16.dgn



LONGITUDINAL SECTION ALONG ℄ CULVERT

Control Point: CP901
Easting: 1563820.86
Northing: 535238.30
Elevation: 874.17
Description: FENO MONUMENT
+/- 5 FT N OF GUARD RAIL
+/- 5 FT W OF 15TH AVE
+/- N OF COOLIDGE ST



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 10.5 Hilly Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 18
Linn Township
Warren County

Design For 30 Degree RA

30" x 8'
Reinforced Concrete Pipe
Extension

STA. 1129+53.96 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

IOWA DEPARTMENT OF TRANSPORTATION

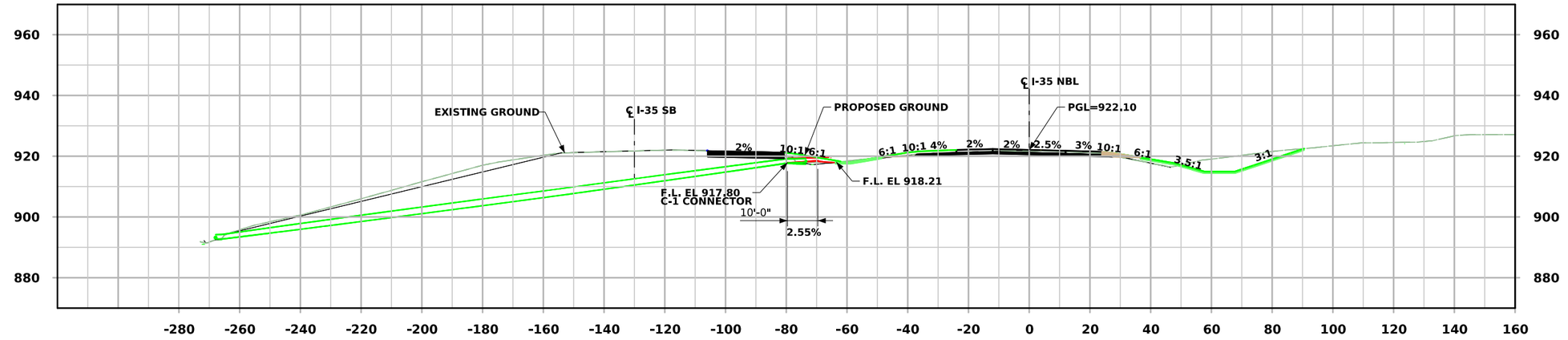
Design No. Design # Design Sheet No. 1 of 1

FHWA/Asset XXXXXX

FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **V.5**

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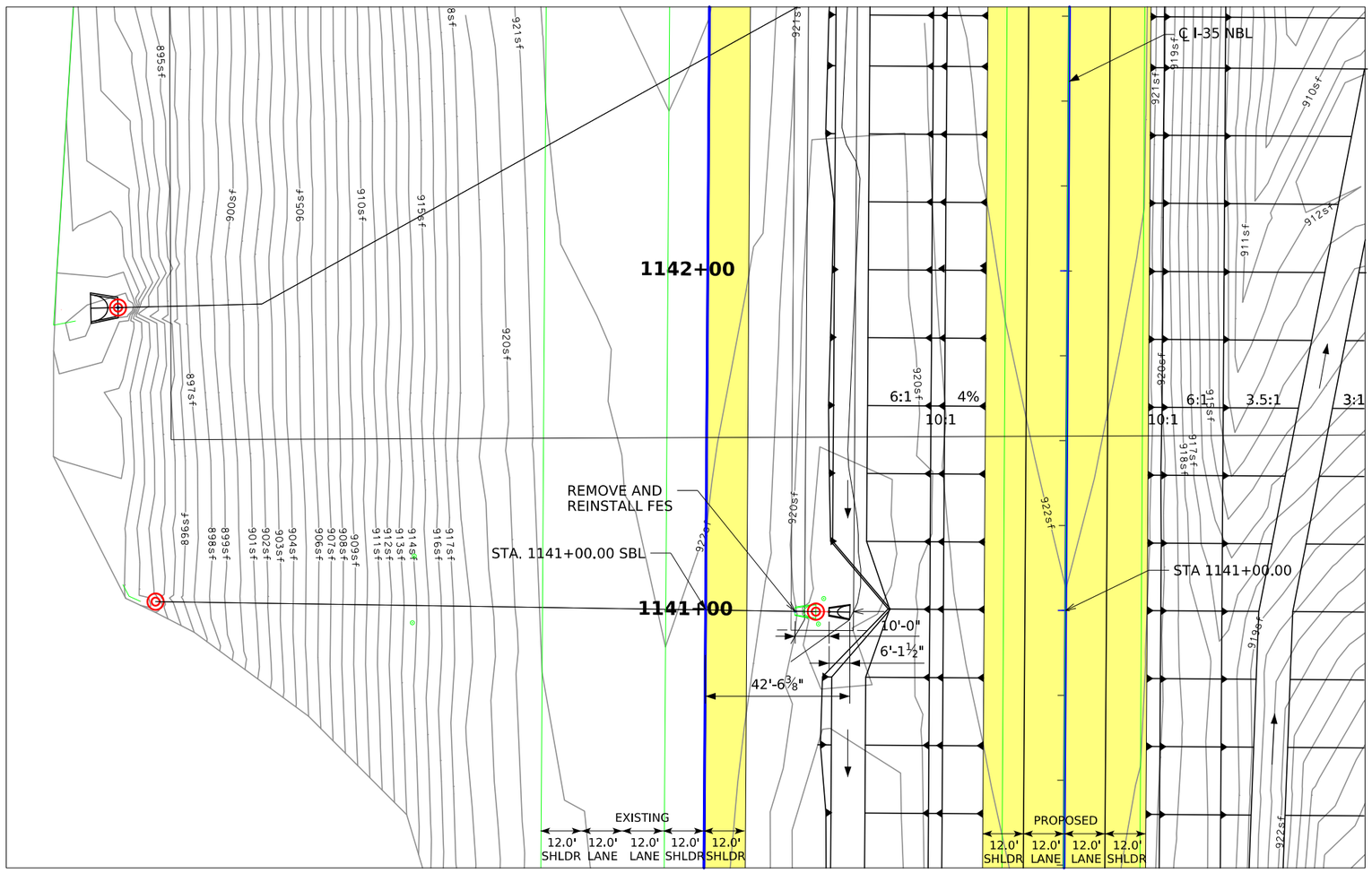
Control Point:



LONGITUDINAL SECTION ALONG ℄ CULVERT

0 FEET 20

N



PLAT PLAN

Hydraulic Data

Drainage Area = Median
Q_{50} = ?,??? cfs

Location

T-77N R-25W
Section 18
Linn Township
Warren County

STAGING

RETURN TO EXISTING CONDITION
FOLLOWING TEMPORARY MEDIAN
CROSSOVER REMOVAL

Design For 0 Degree Skew

24" X 10'
REINFORCED CONCRETE PIPE EXTENSION

STA. 1141+00.00 (I-35 SBL)

Turn-in Date: Jan 01 2015

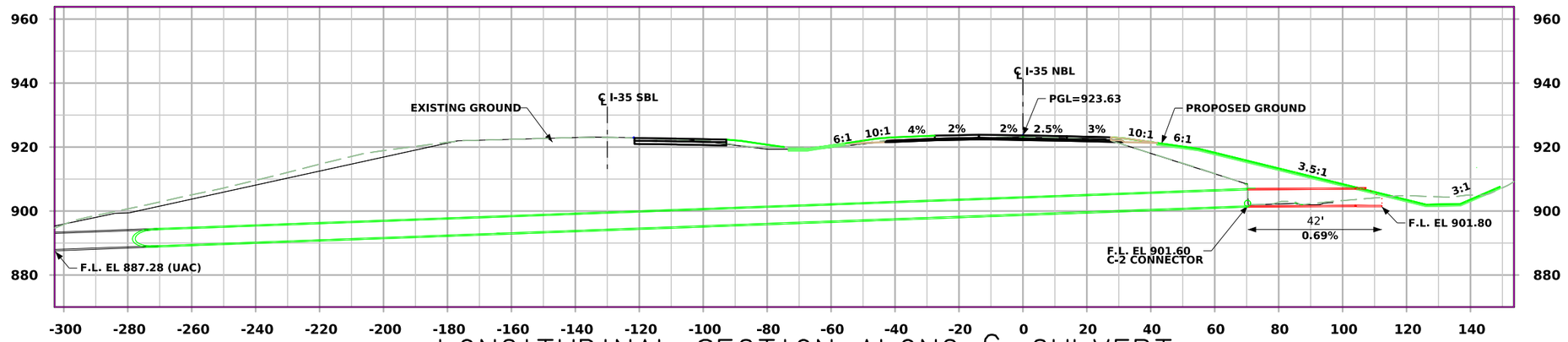
Warren County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER V.6

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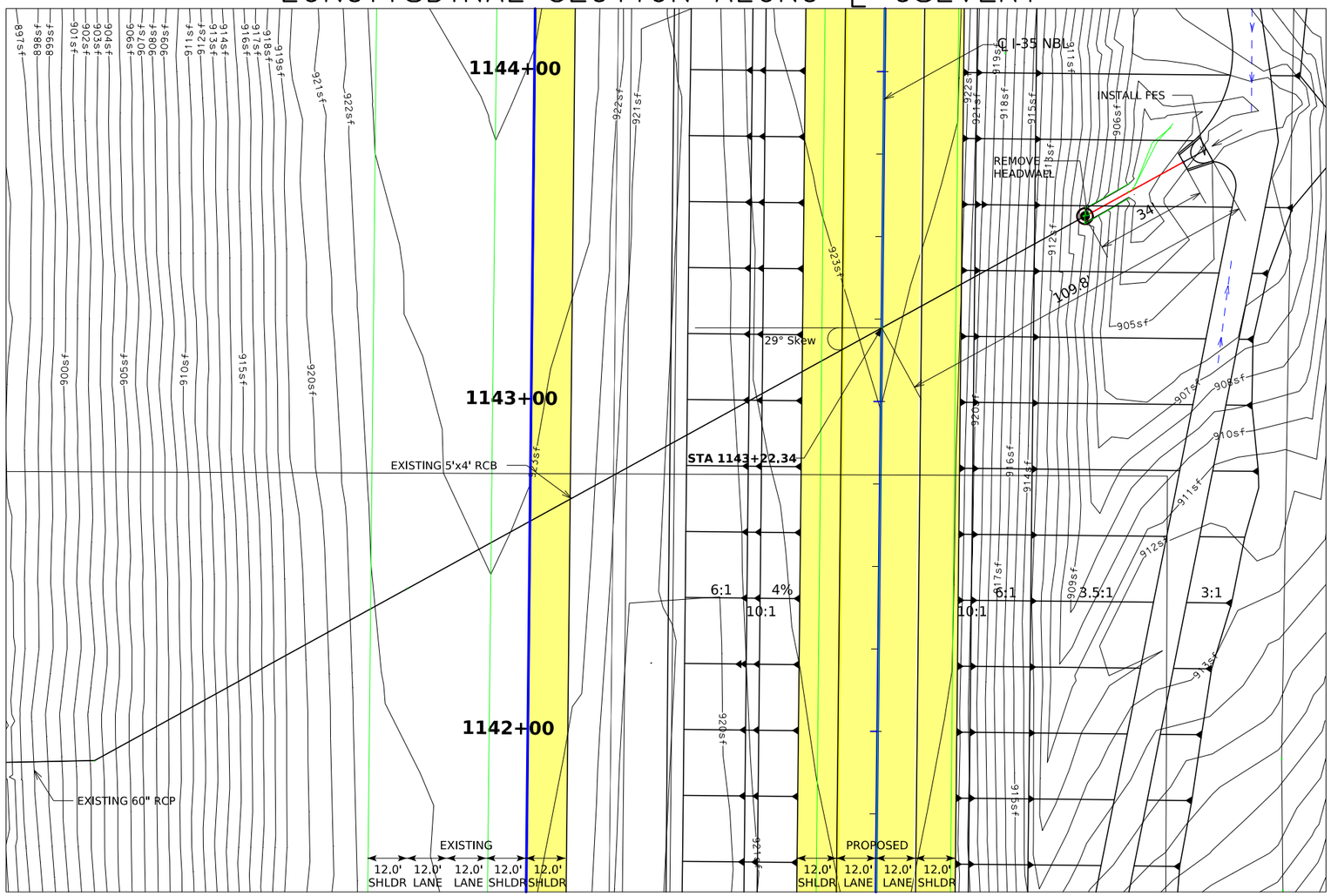


LONGITUDINAL SECTION ALONG ℄ CULVERT

Control Point: CP901
Easting: 1563820.86
Northing: 535238.30
Elevation: 874.17
Description: FENO MONUMENT
+/- 5 FT N OF GUARD RAIL
+/- 5 FT W OF 15TH AVE
+/- N OF COOLIDGE ST

0 20
FEET

N



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 48 Hilly Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

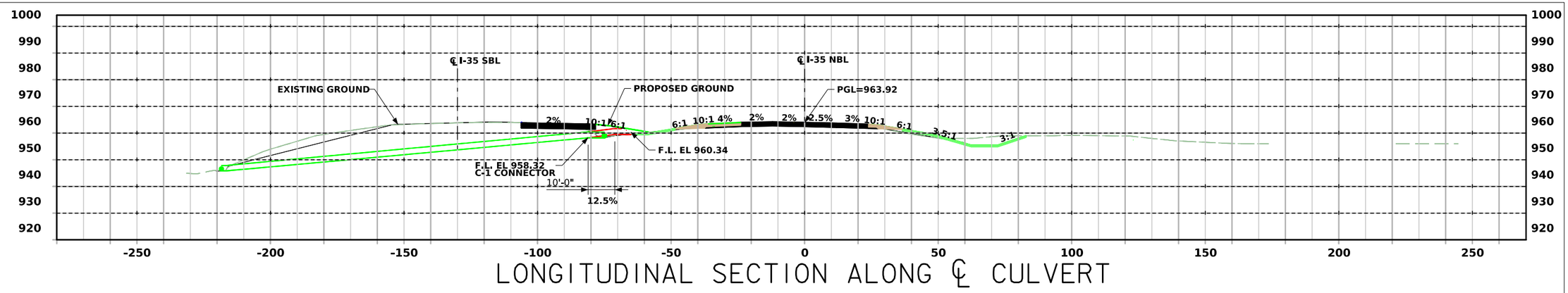
I-*35 Northbound*
T-77N R-25W
Section 18
Linn Township
Warren County

Design For 29 Degree RA
60" x 34'
Reinforced Concrete Pipe
Extension
STA. 1143+22.34 (I-35 NBL)
Turn-in Date: Sept 02 2024
Warren County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. Design # Design Sheet No. 1 of 1
FHWA/Asset XXXXXX

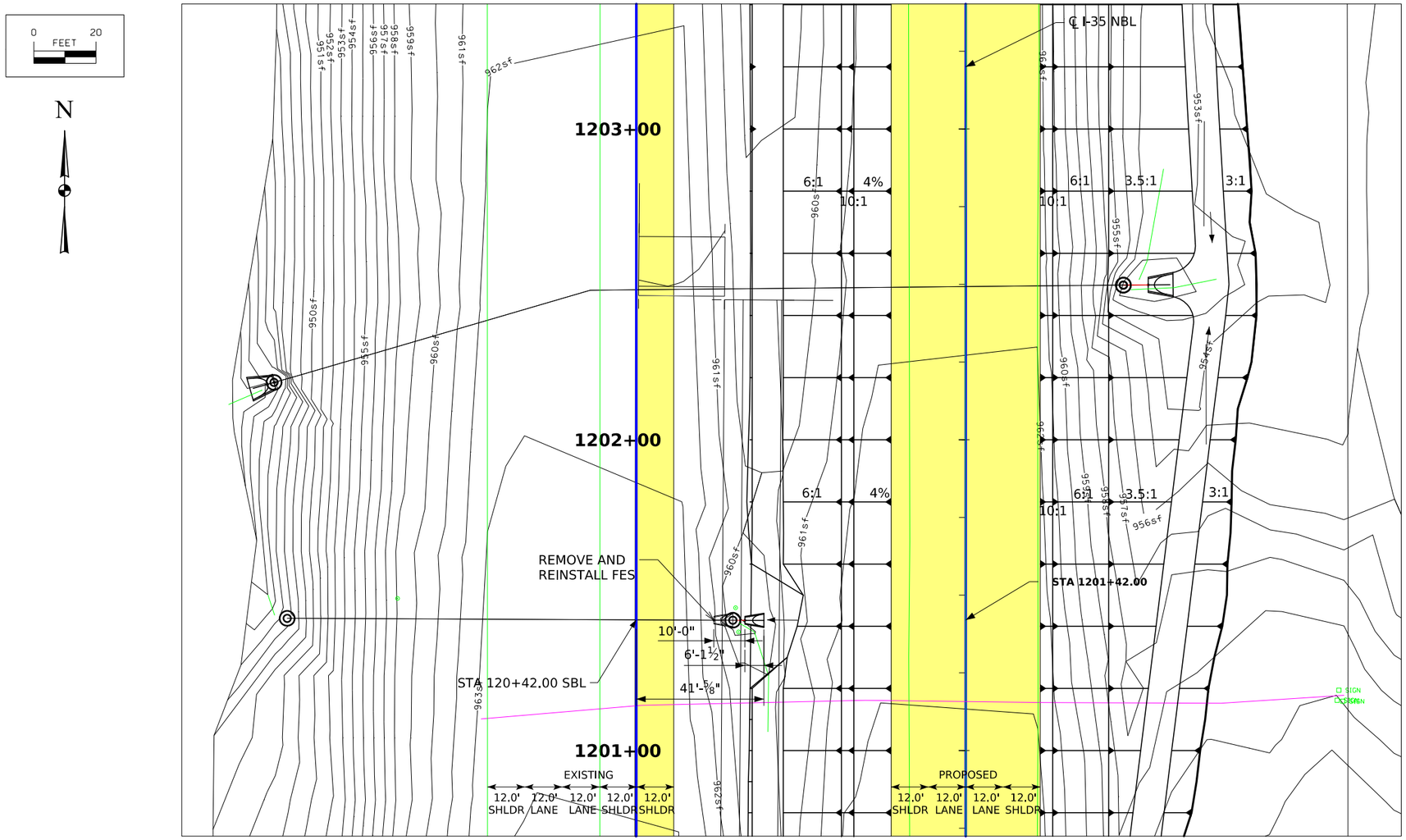
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11:08:17 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_V01toV16.dgn

Control Point:



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

Drainage Area = Median
Q_{50} = ?,??? cfs

Location

T-77N R-25W
Section 7
Linn Township
Warren County

STAGING

RETURN TO EXISTING CONDITION
FOLLOWING TEMPORARY MEDIAN
CROSSOVER REMOVAL

Design For 0 Degree Skew

24" X10'
REINFORCED CONCRETE PIPE EXTENSION

STA. 1201+42.00 (I-35 SBL)

Turn-in Date: Jan 01 2015

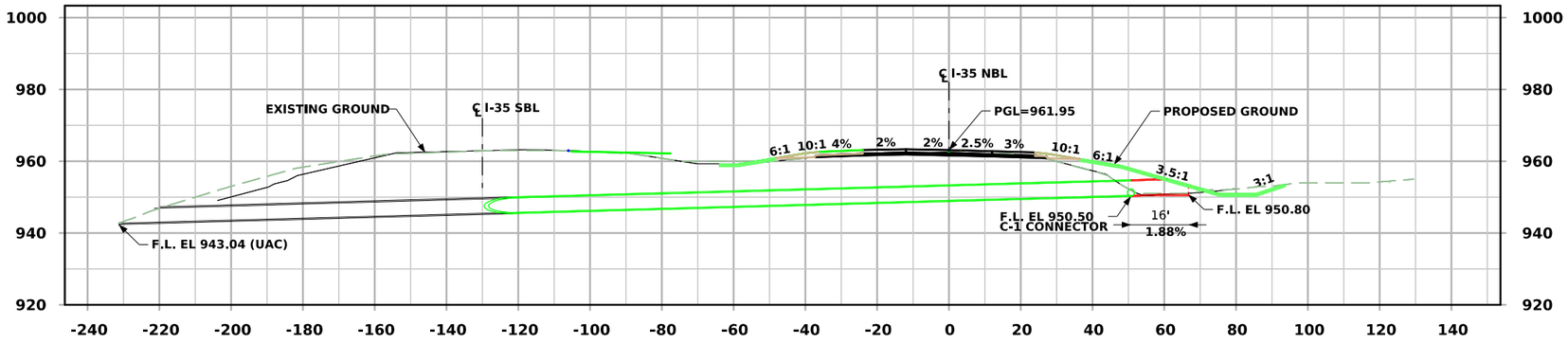
County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

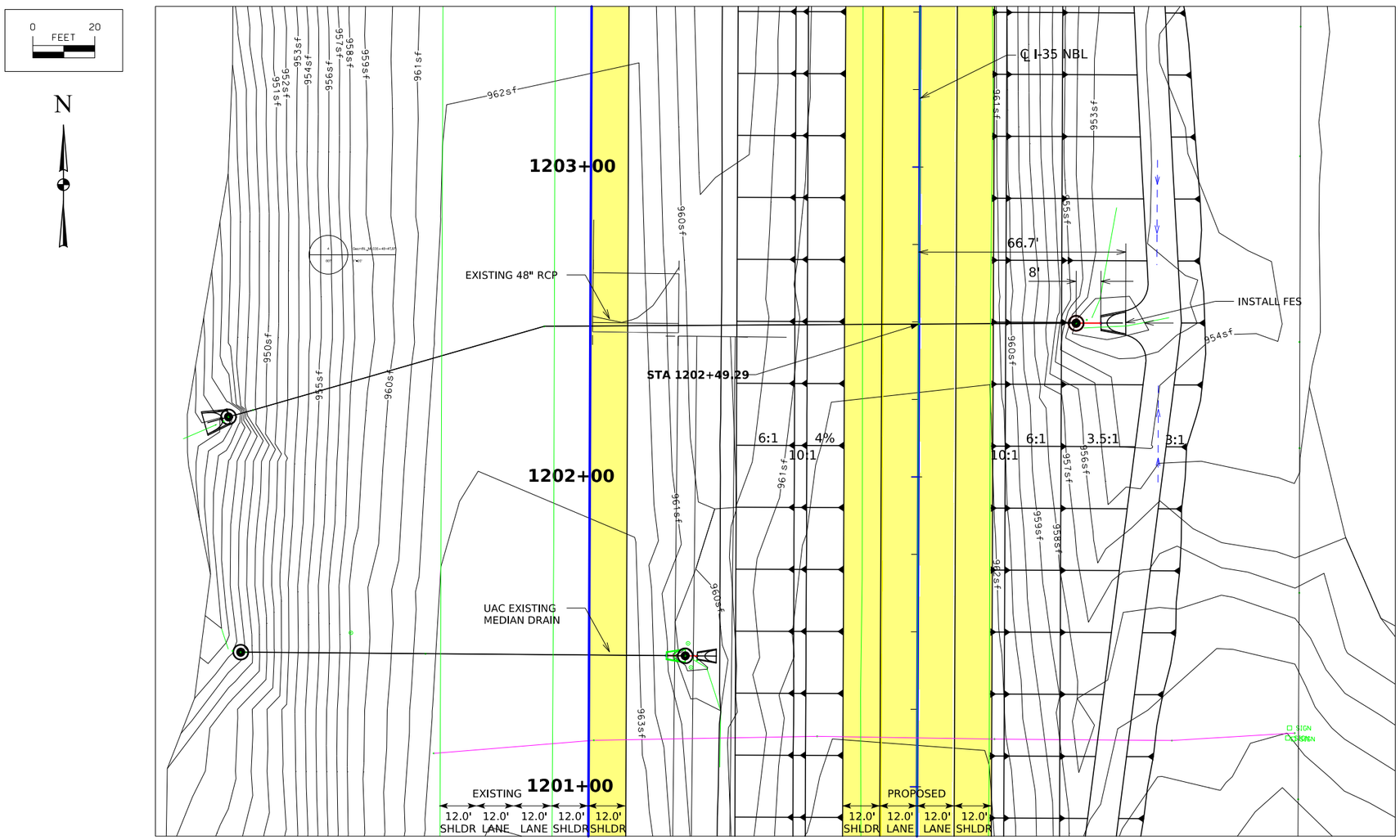
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LONGITUDINAL SECTION ALONG ℄ CULVERT

Control Point: CP905
Easting: 1563842.37
Northing: 540347.38
Elevation: 985.04
Description: FENO MONUMENT
+/- 5 FT S OF G14 HWY
+/- 20 FT E OF I-35 BRIDGE



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 55 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 7
Linn Township
Warren County

Design For 0 Degree Skew

48" x 8'
Reinforced Concrete Pipe
Extension

STA. 1202+49.29 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

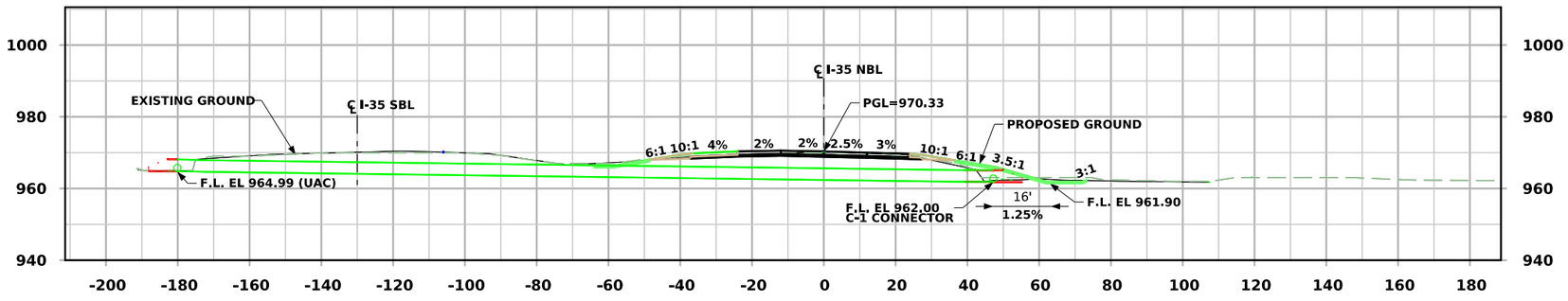
IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

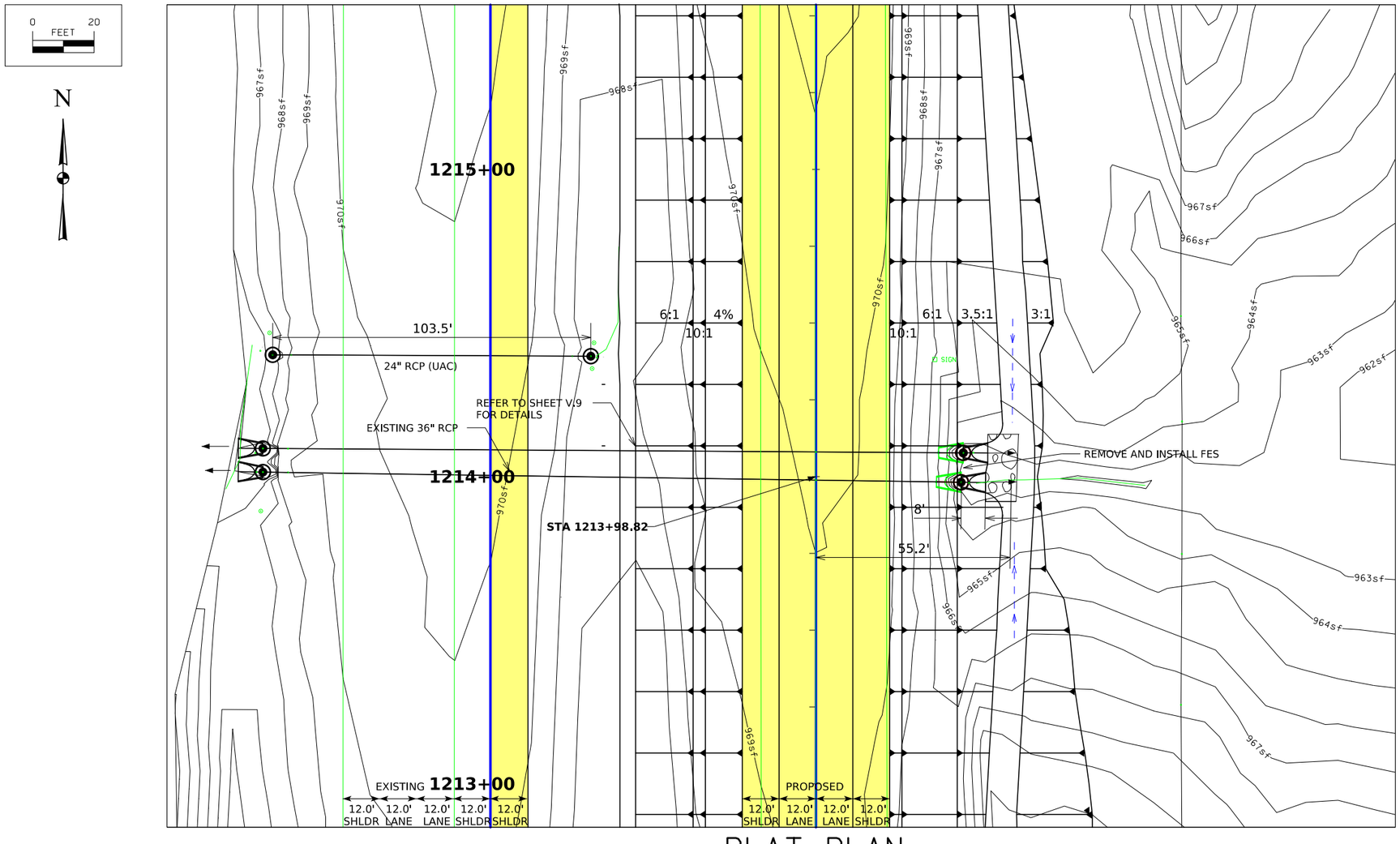
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Control Point: CP903
Easting: 1563788.01
Northing: 546815.14
Elevation: 1006.28
Description: CUT X SE
WING WALL VETERANS
PKWY BRIDGE



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 31 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 7
Linn Township
Warren County

Design For 0 Degree Skew

36" x 8'
Reinforced Concrete Pipe

Extension

STA. 1213+98.82 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

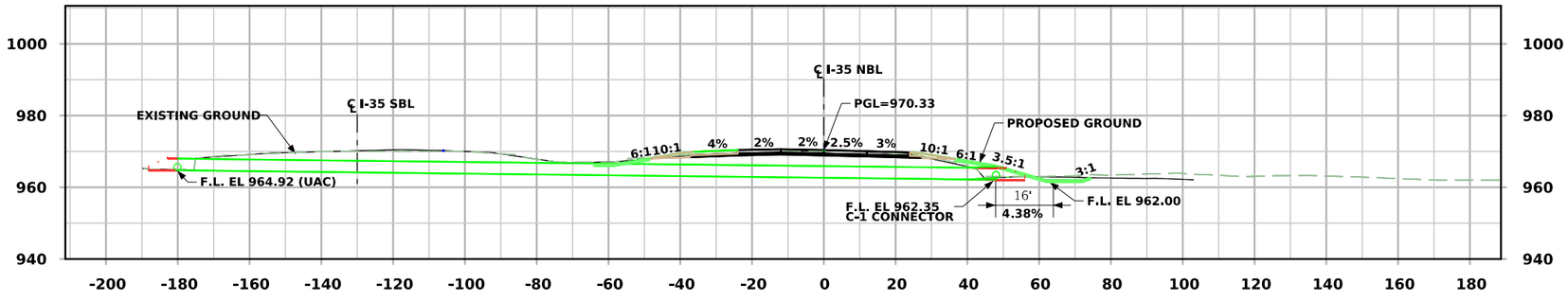
IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

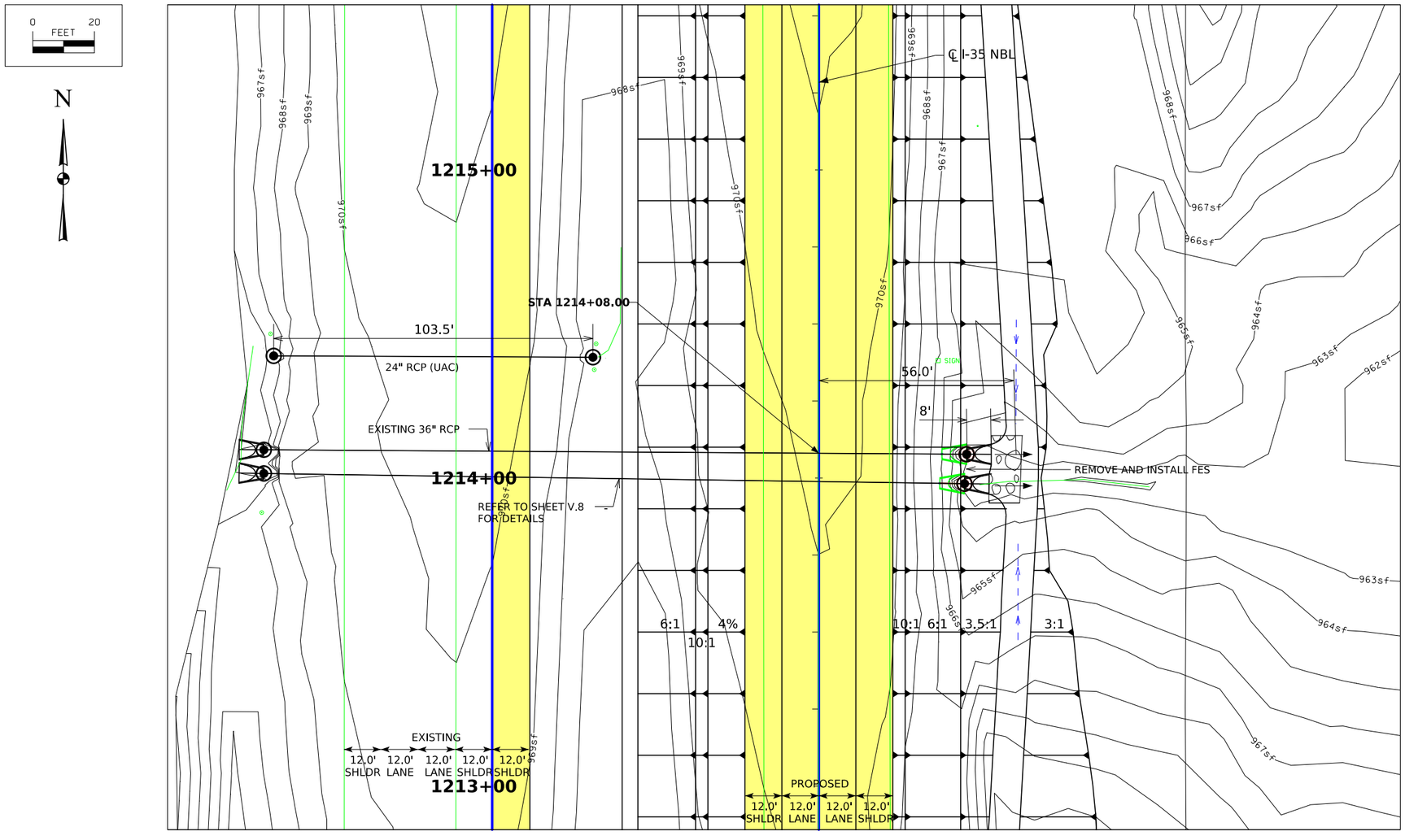
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Control Point: CP903
Easting: 1563788.01
Northing: 546815.14
Elevation: 1006.28
Description: CUT X SE
WING WALL VETERANS
PKWY BRIDGE



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 31 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 7
Linn Township
Warren County

Design For 0 Degree Skew

36" x 8'
Reinforced Concrete Pipe

Extension

STA. 1214+08.00 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

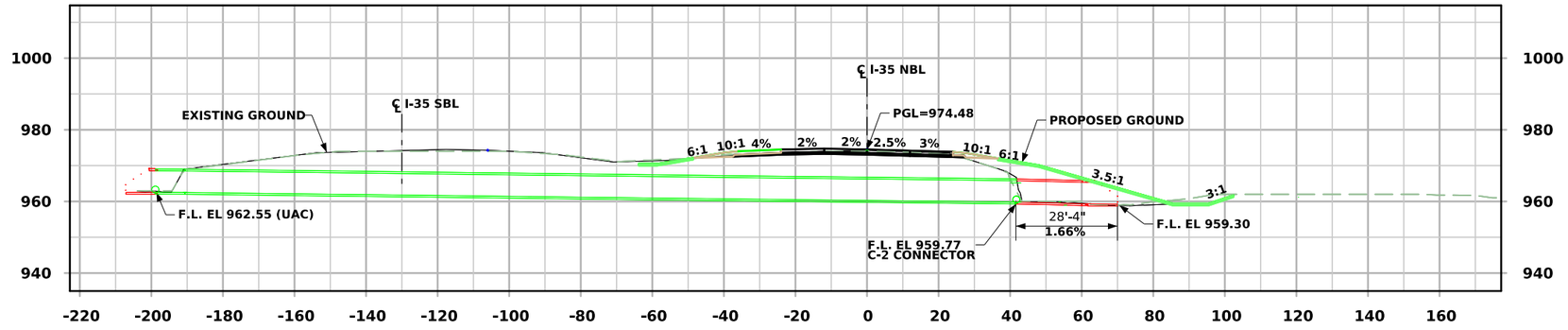
IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

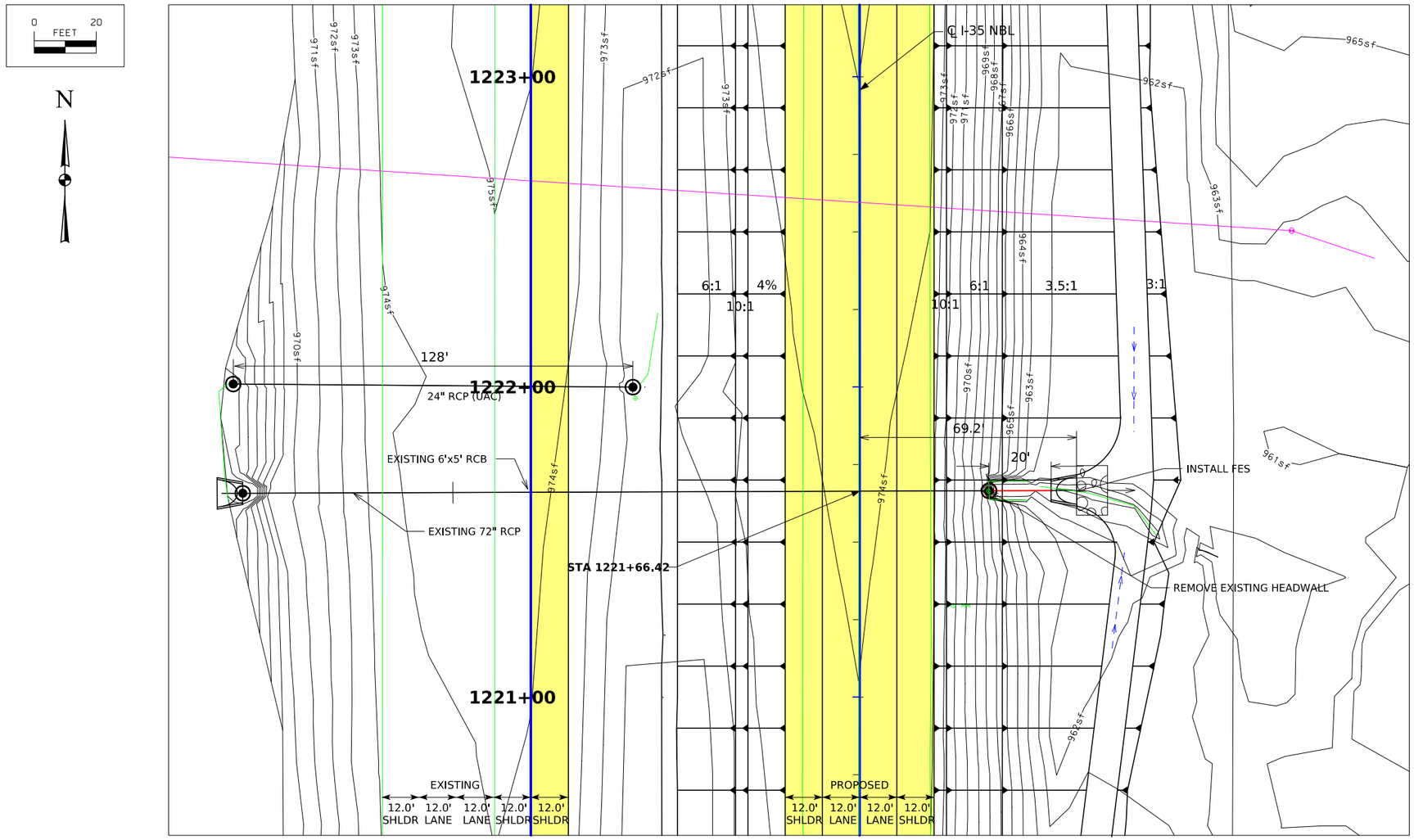
FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **V.11**

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Control Point: CP903
Easting: 1563788.01
Northing: 546815.14
Elevation: 1006.28
Description: CUT X SE
WING WALL VETERANS
PKWY BRIDGE



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 116 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 7
Linn Township
Warren County

Design For 0 Degree Skew

72" x 20'
Reinforced Concrete Pipe

Extension

STA. 1221+66.42 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

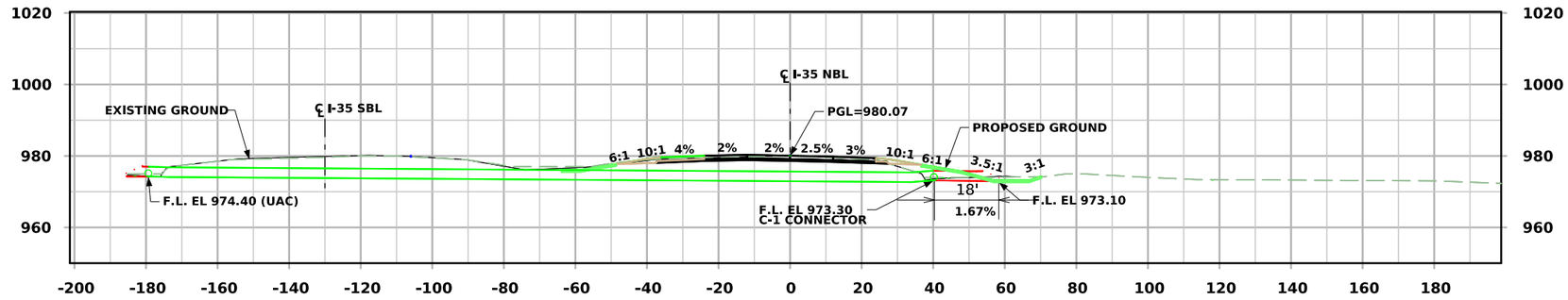
IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

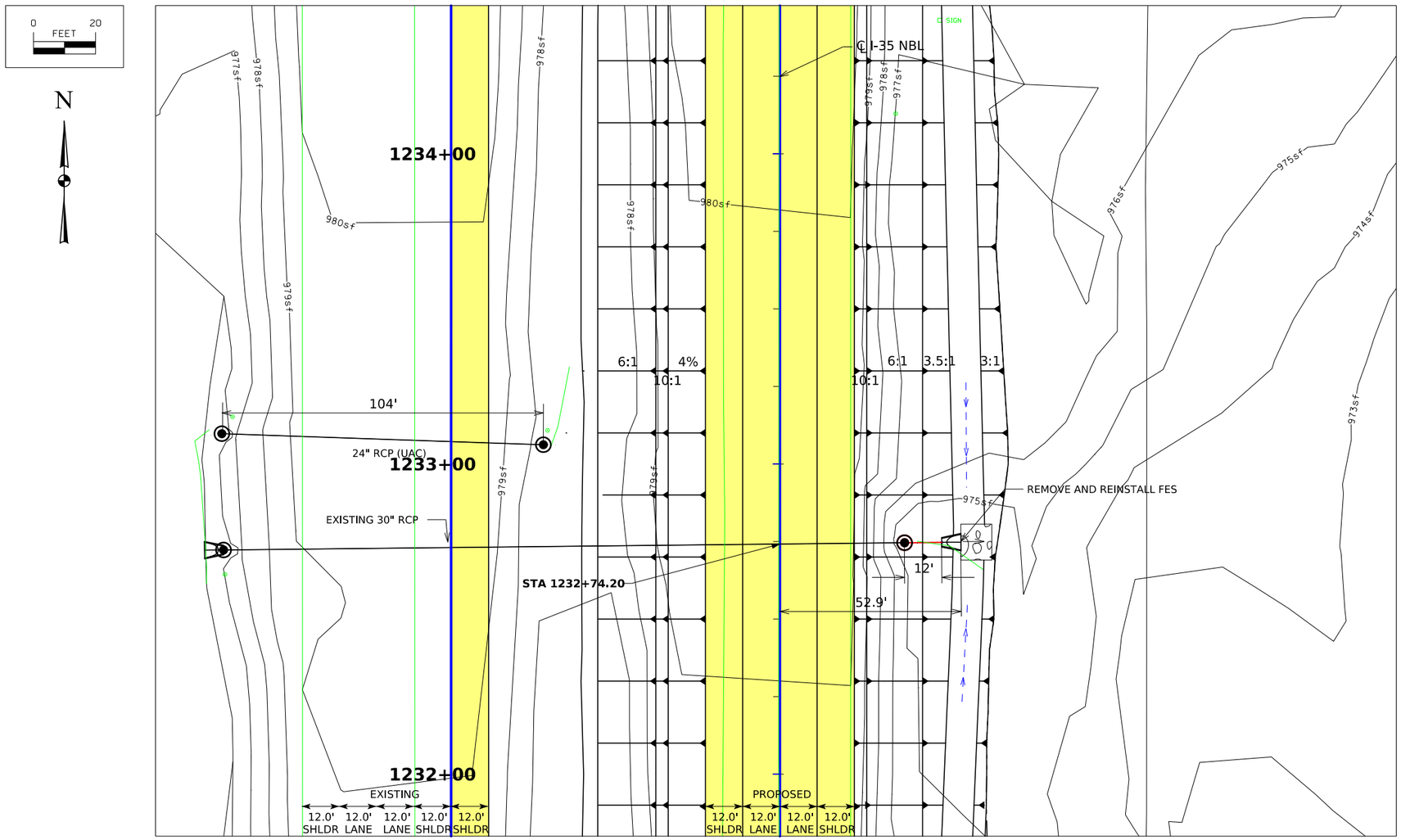
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Control Point: CP903
Easting: 1563788.01
Northing: 546815.14
Elevation: 1006.28
Description: CUT X SE WING WALL VETERANS PKWY BRIDGE



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 12 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 6
Linn Township
Warren County

Design For 0 Degree Skew

30" x 12'
Reinforced Concrete Pipe

Extension

STA. 1232+74.20 (I-35 NBL)
Turn-in Date: Sept 02 2024

Warren County

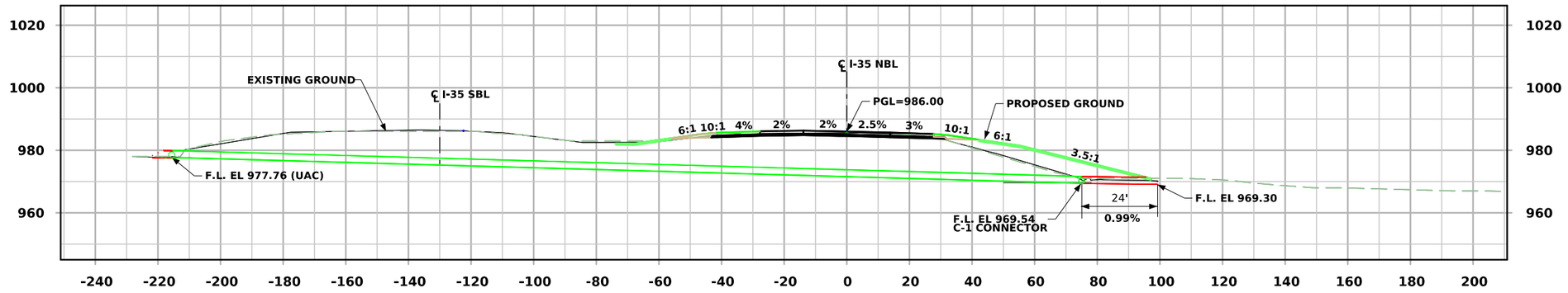
IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

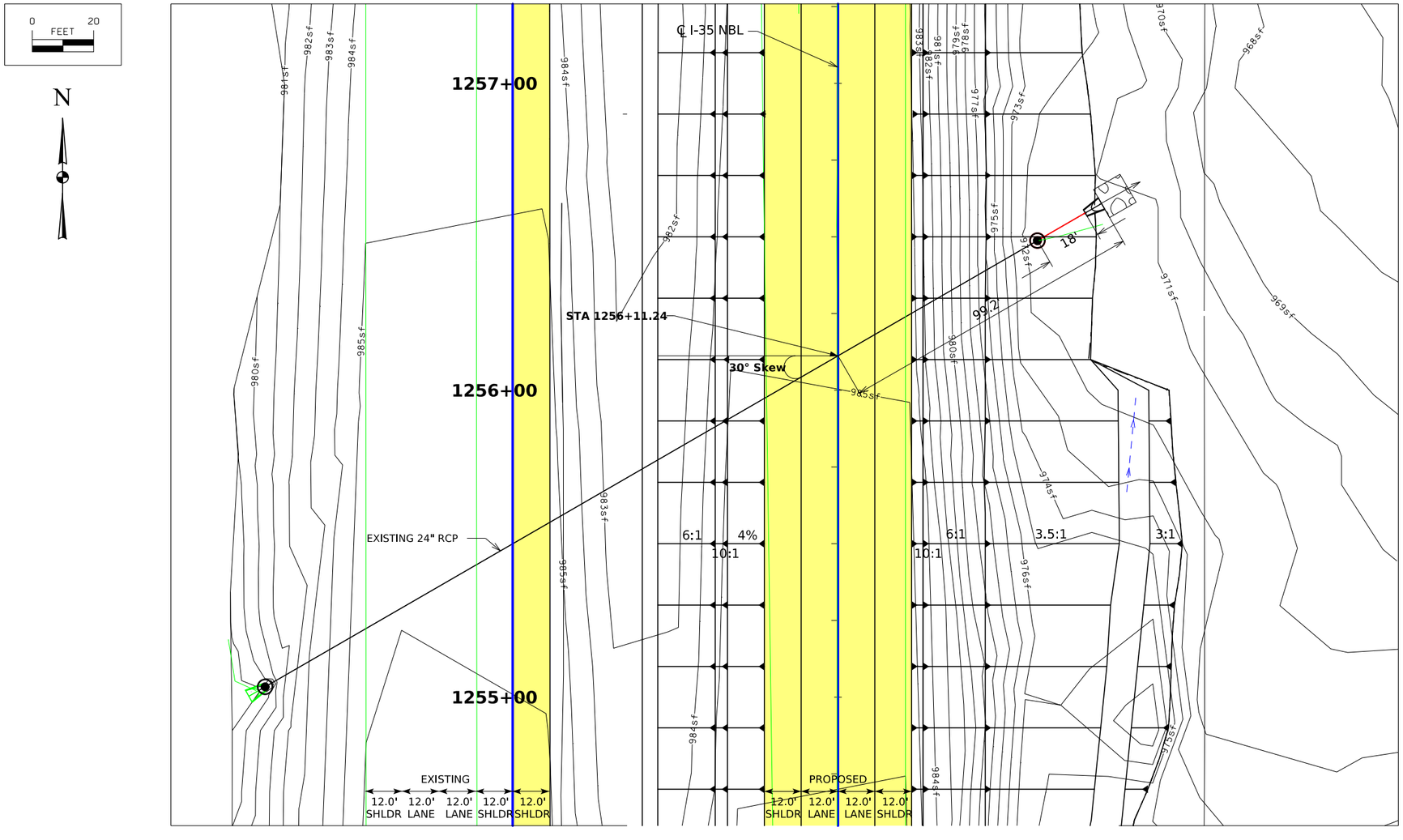
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Control Point: CP904
Easting: 1563426.40
Northing: 548404.60
Elevations: 1009.05
Description: CUT X NW
CORNER OF PEDESTRIAN
BRIDGE OF ADAMS ST



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 9 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-35 Northbound
T-77N R-25W
Section 6
Linn Township
Warren County

Design For 30 Degree RA
24" x 18'
Reinforced Concrete Pipe

Extension

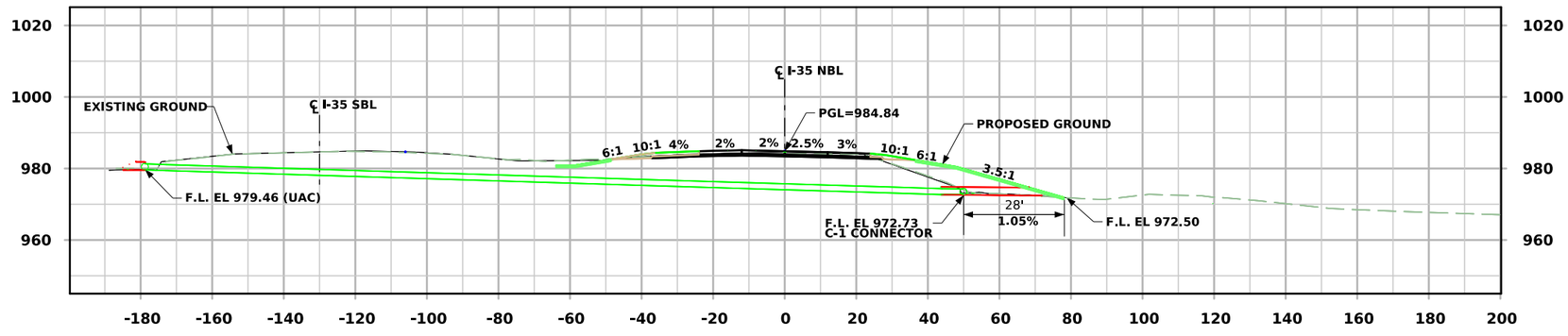
STA. 1256+11.24 (I-35 NBL)
Turn-in Date: Sept 02 2024

Warren County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. Design # Design Sheet No. 1 of 1
FHWA/Asset XXXXXX

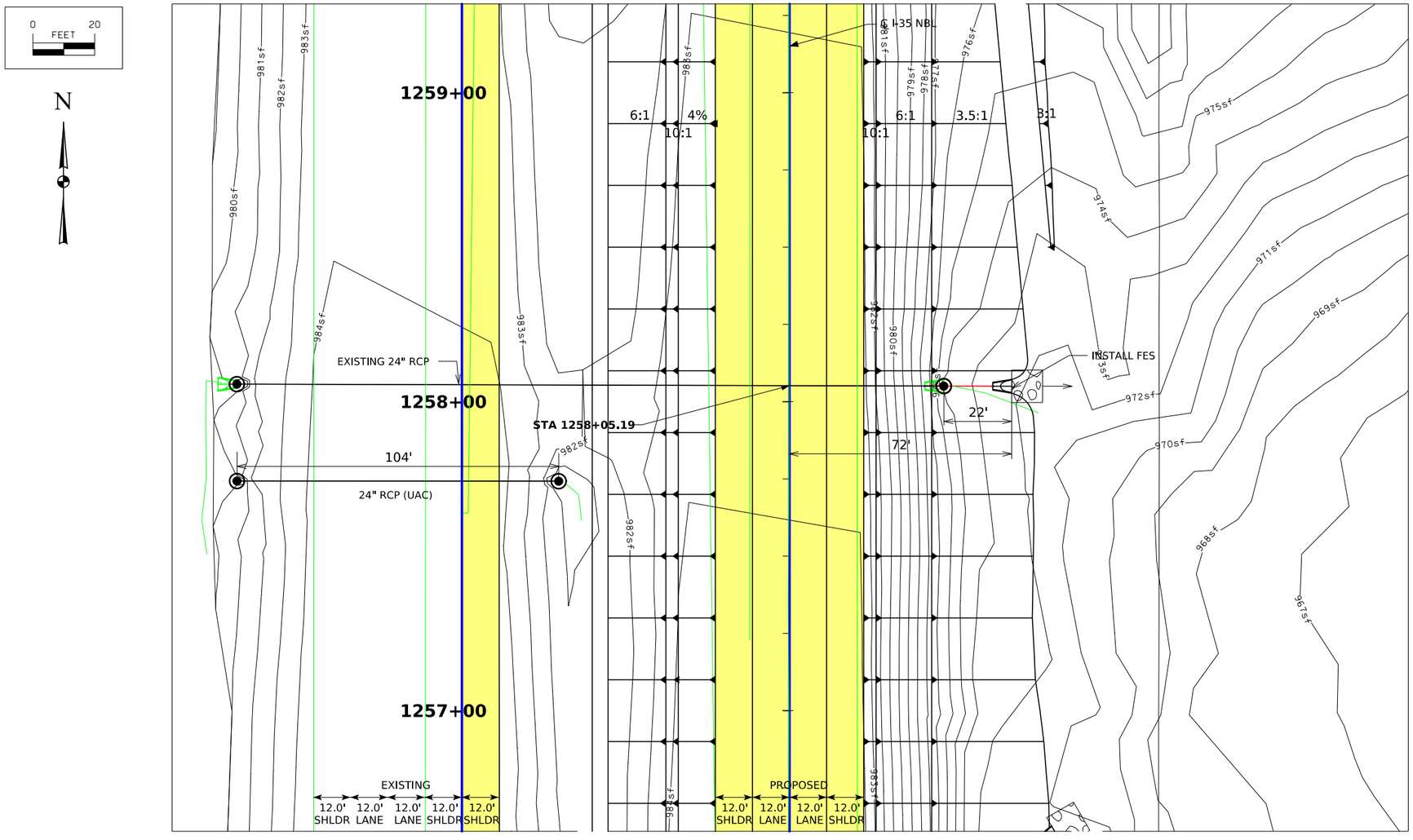
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Control Point: CP904
Easting: 1563426.40
Northing: 548404.60
Elevations: 1009.05
Description: CUT X NW CORNER OF PEDESTRIAN BRIDGE OF ADAMS ST



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 4 Rolling Acres
Q_{50} = ?,??? cfs
HW Elev. = ????
Exit Velocity = ?.? fps
Stream Slope = ??.? Ft./Mi.

Location

I-*35 Northbound*
T-77N R-25W
Section 6
Linn Township
Warren County

Design For 0 Degree Skew

24" x 22'

Reinforced Concrete Pipe

Extension

STA. 1258+05.19 (I-35 NBL)

Turn-in Date: Sept 02 2024

Warren County

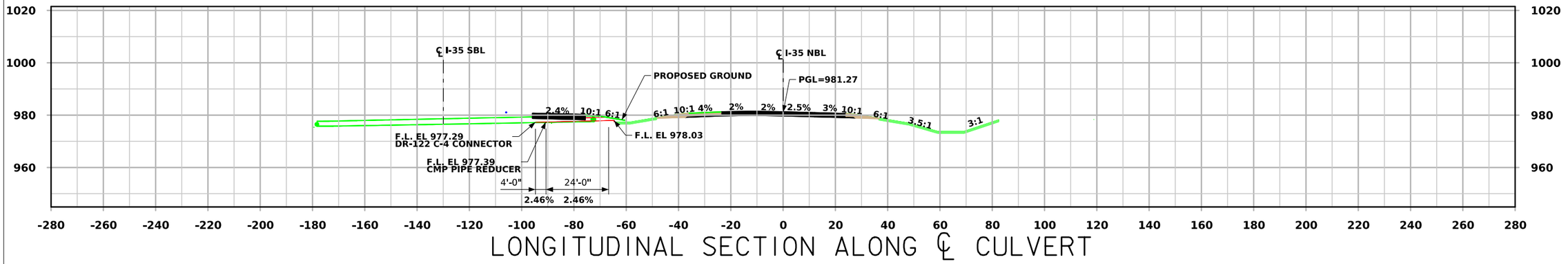
IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

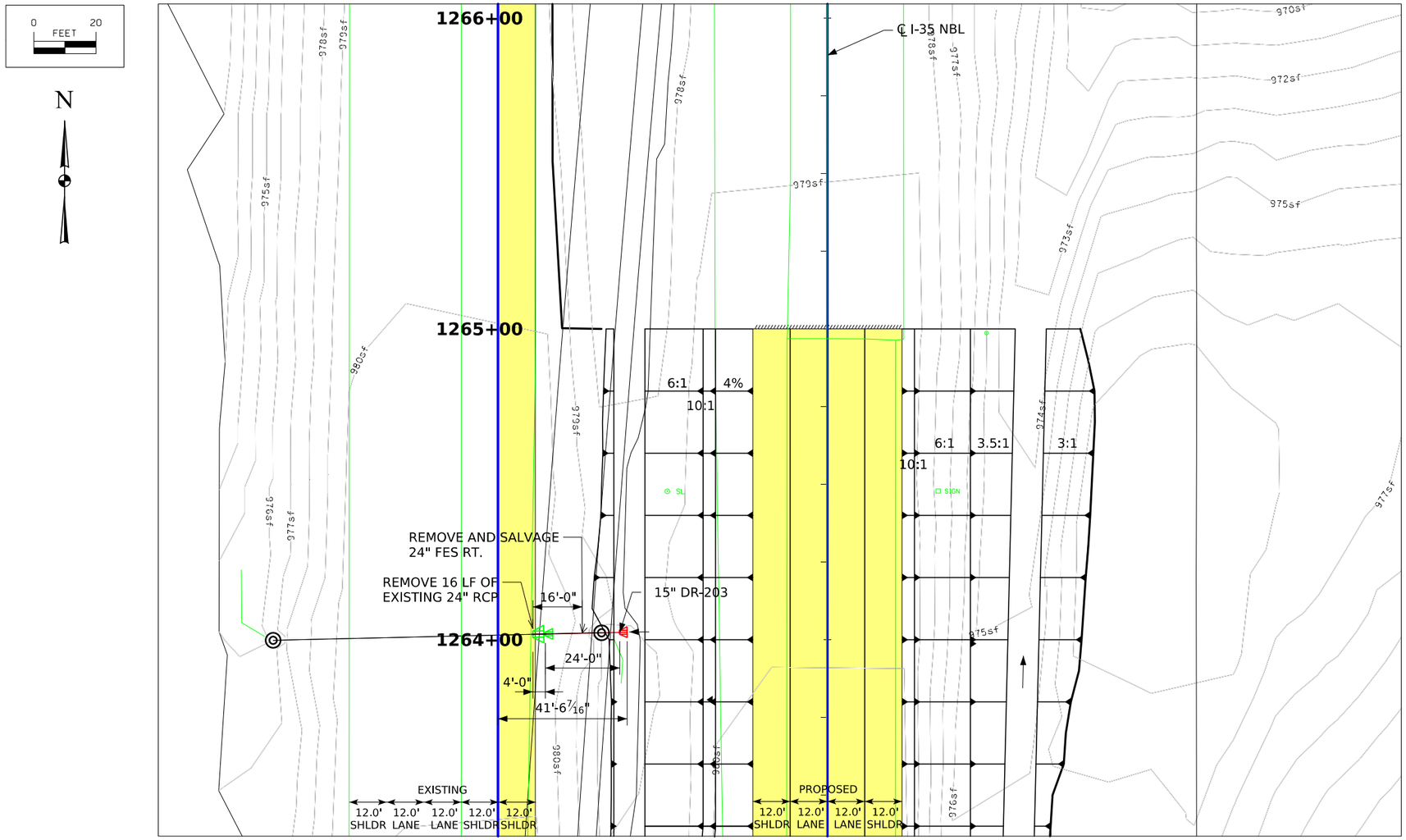
FILE NO. **98765**	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Warren**COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **V.15**

11:02:27 AM 9/3/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_V01toV16.dgn

Control Point:



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

Hydraulic Data

Drainage Area = Median
Q_{50} = ?,??? cfs

Location

T-77N R-25W
Section 6
Linn Township
Warren County

STAGING

RETURN TO EXISTING CONDITION
FOLLOWING TEMPORARY MEDIAN
CROSSOVER REMOVAL

Design For 0 Degree Skew

24" X 4' - 15" X 24' CORRUGATED METAL PIPE EXTENSION

STA. 1264+01.75 (I-35 SBL)

Turn-in Date: Sept 02 2024

Warren County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. Design # Design Sheet No. 1 of 1 FHWA/Asset XXXXXX

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Warren COUNTY	PROJECT NUMBER NHSX-092-9(XXX)--3H-58	SHEET NUMBER V.16

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CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature
Aggregate	
(64)	Choke Stone
(42)	Engineering Fabric
(8)	Flooded Backfill
(92)	Macadam Stone
(20)	Modified
(12)	Plowing Shaping
(14)	Porous Backfill
(8)	Revetment Class A
(6)	Revetment Class B
(62)	Revetment Class C
(188)	Revetment Class D
(28)	Revetment Class E
(12)	Shoulder Special Backfill
(12)	Special Backfill
(20)	Subbase
(20)	Subbase Lower
(20)	Subbase Upper
(118)	Subgrade Treatment
Asphalt	
(207)	HMA Base Course
(207)	HMA Interim Course
(207)	HMA Surface Course
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Existing	
(0)	Existing Pavement
Structural	
(112)	Noise Wall
(112)	Noise Wall Footing
(112)	Retaining Wall Back
(112)	Retaining Wall Back Excavate
(112)	Retaining Wall Face
(112)	Retaining Wall Front Excavate
(112)	Retaining Wall Front Footing
(112)	Retaining Wall MSE Gutter
(112)	Retaining Wall Reinforced Earth
Grading	
(8)	Behind Curb Cut
(6)	Granular
(13)	Granular Back Fill
(48)	Rock Undercut
(8)	Shoulder Earth Fill
(2)	Side Slopes
(226)	Side Slopes Dressing
Substrata	
(128)	Boulder Substrata
(48)	Broken Weathered Substrata
(3)	Core Out Substrata
(203)	Existing Pavement Substrata
(6)	Loam Substrata
(80)	Rock Substrata
(4)	Select Sand Substrata
(3)	Shale Substrata
(10)	Topsoil Substrata
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

NOTES:

Text

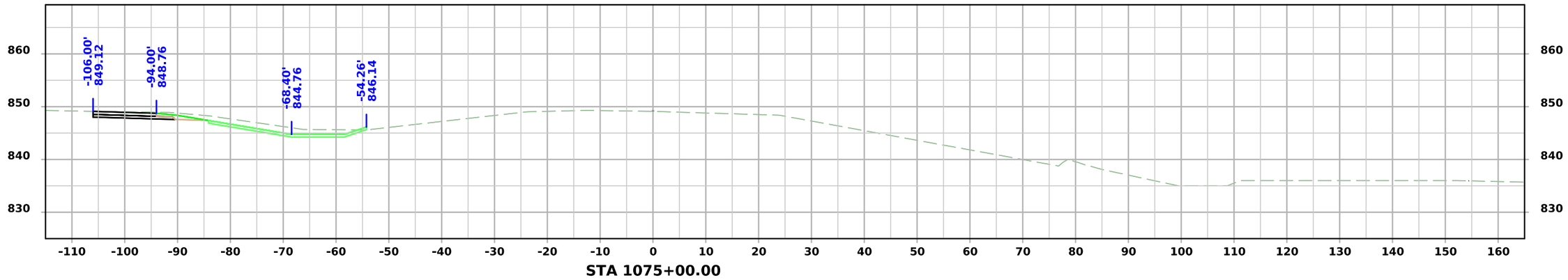
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Text

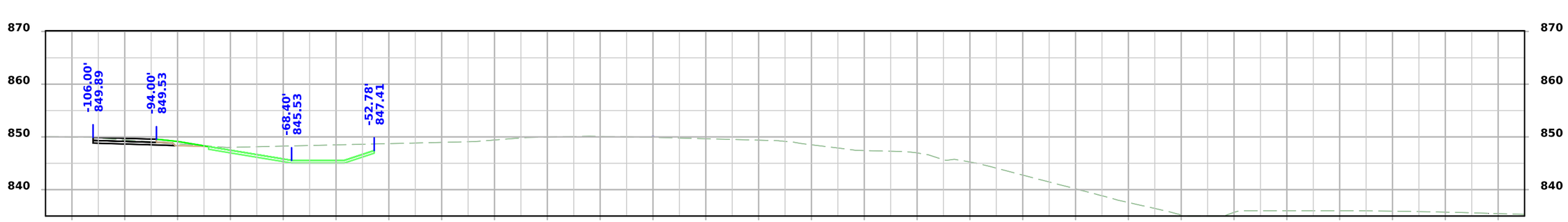
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

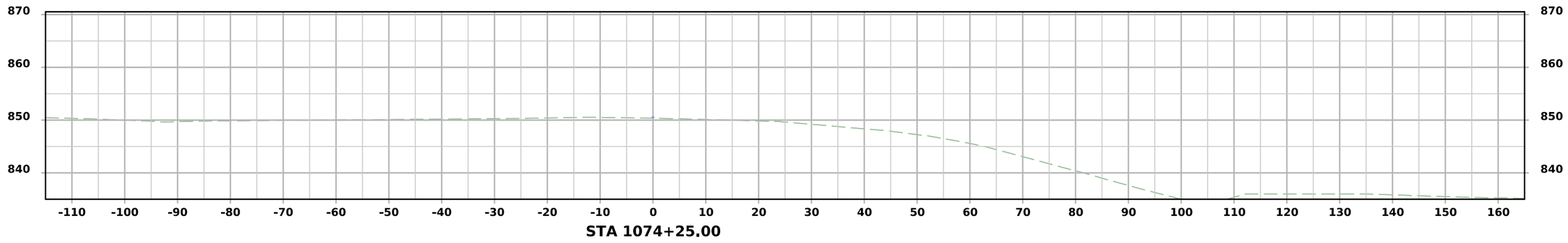
ML - I35 NB



STA 1075+00.00



STA 1074+50.00

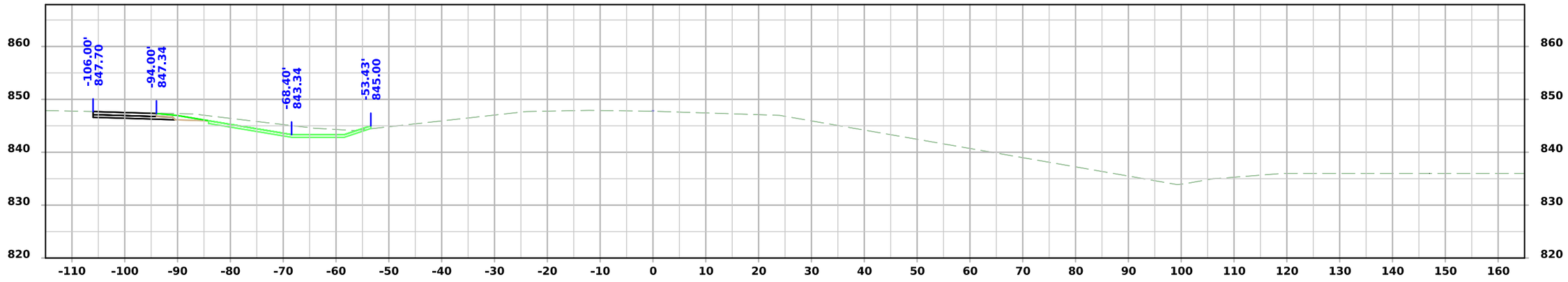


STA 1074+25.00

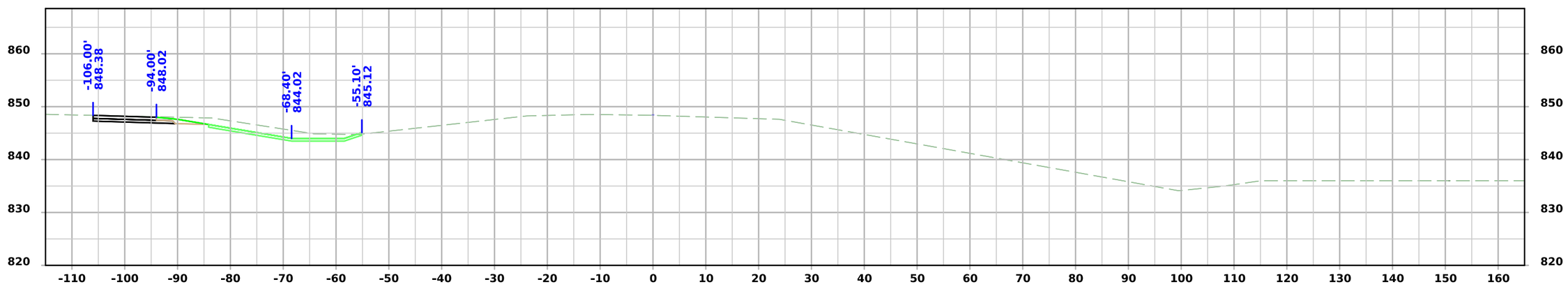
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ML - I35 NB



STA 1076+00.00

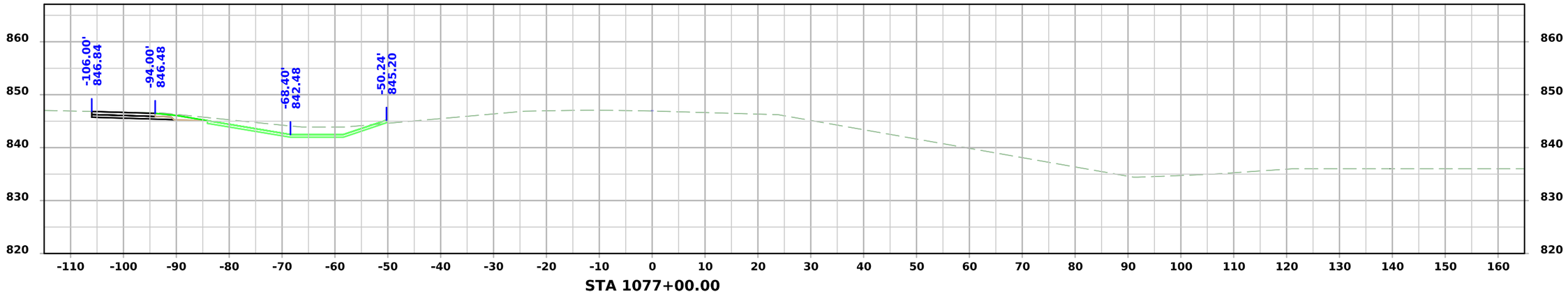


STA 1075+50.00

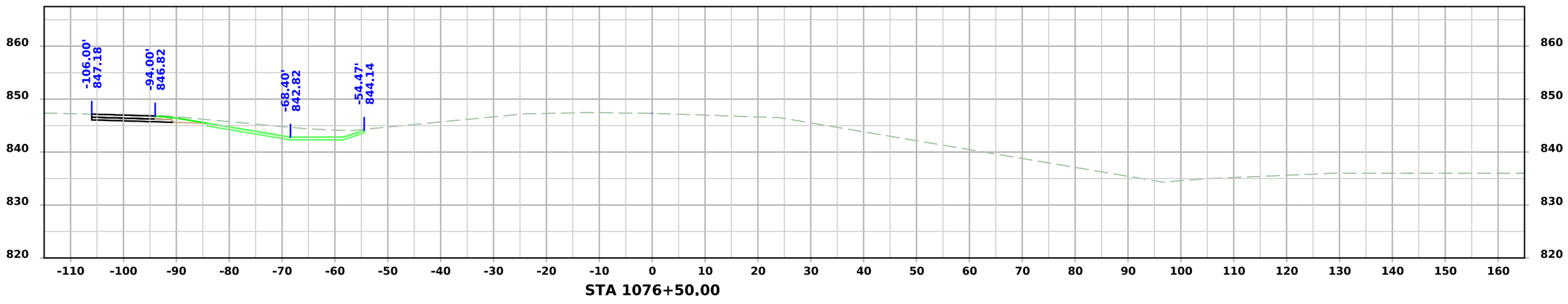
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ML - I35 NB



STA 1077+00.00

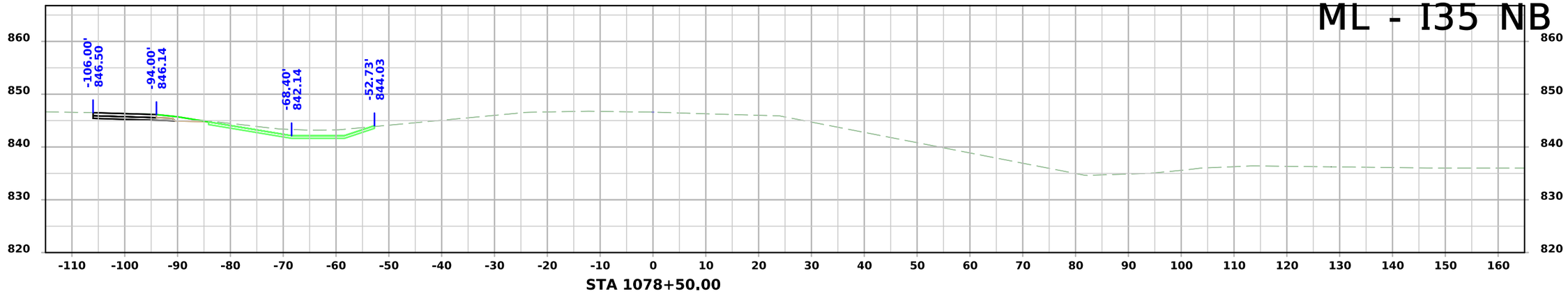


STA 1076+50.00

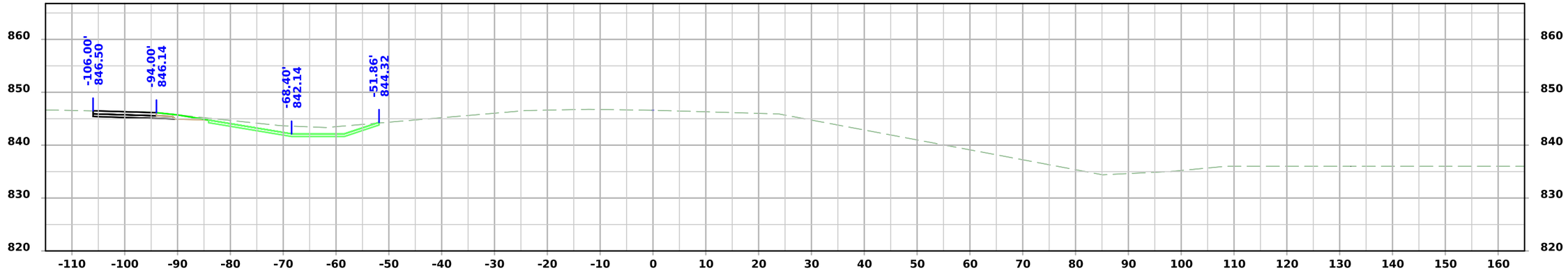
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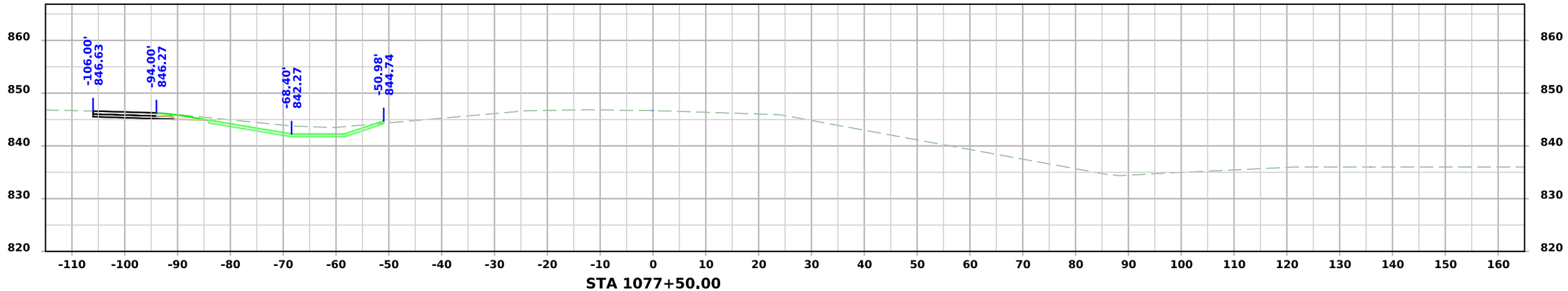
ML - I35 NB



STA 1078+50.00



STA 1078+00.00

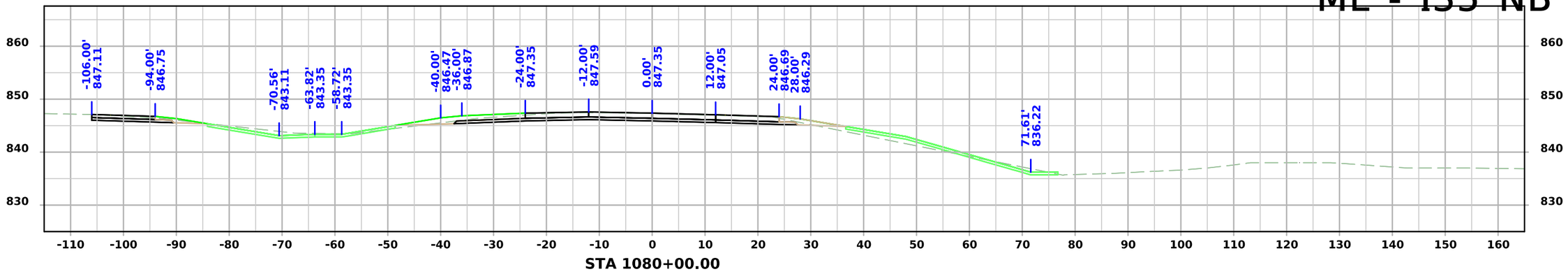


STA 1077+50.00

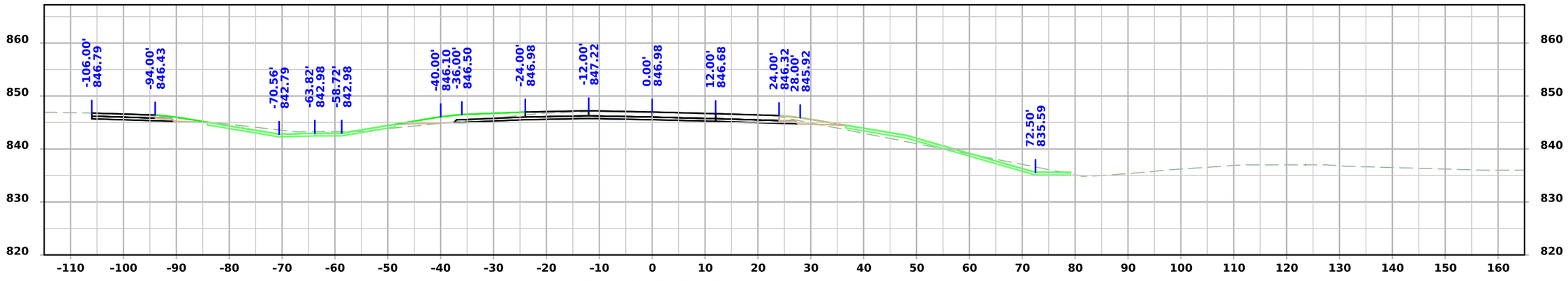
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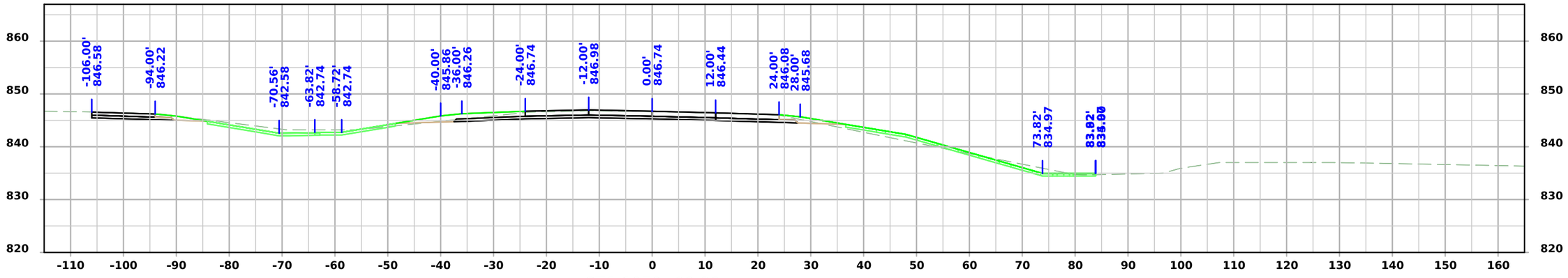
ML - I35 NB



STA 1080+00.00



STA 1079+50.00

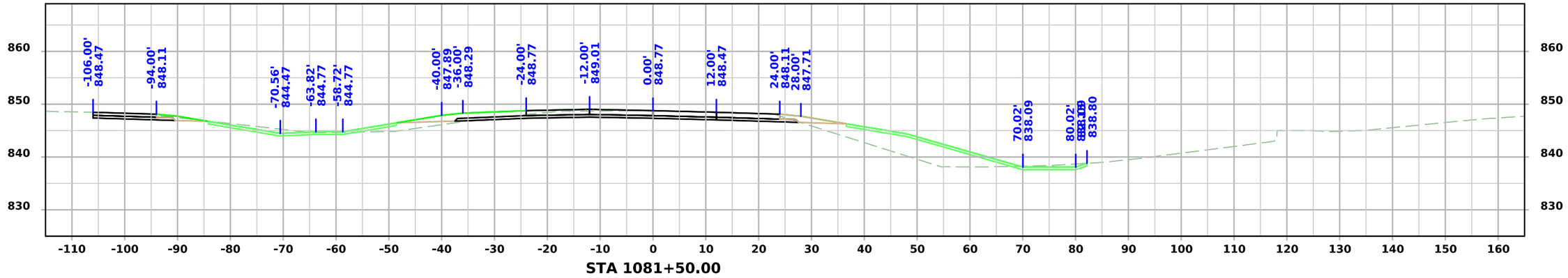


STA 1079+00.00

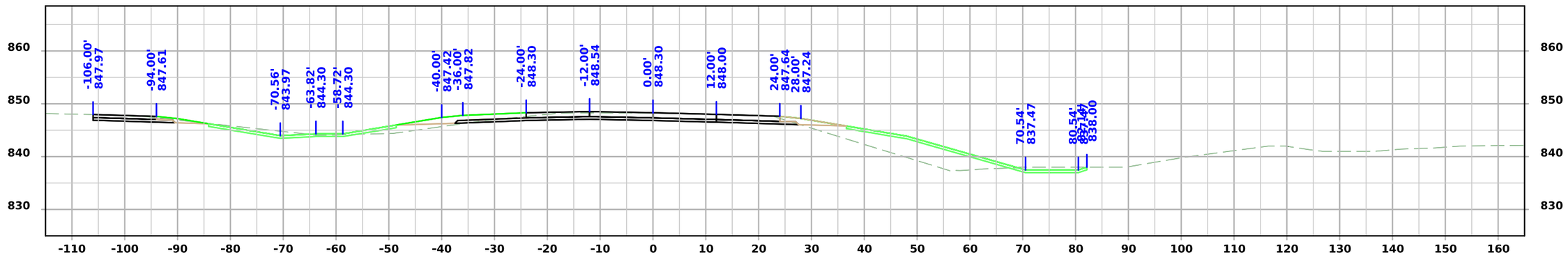
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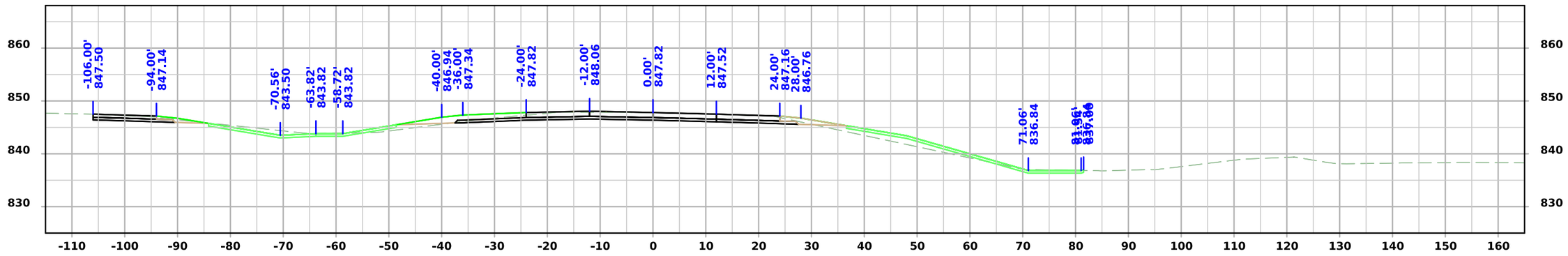
ML - I35 NB



STA 1081+50.00



STA 1081+00.00

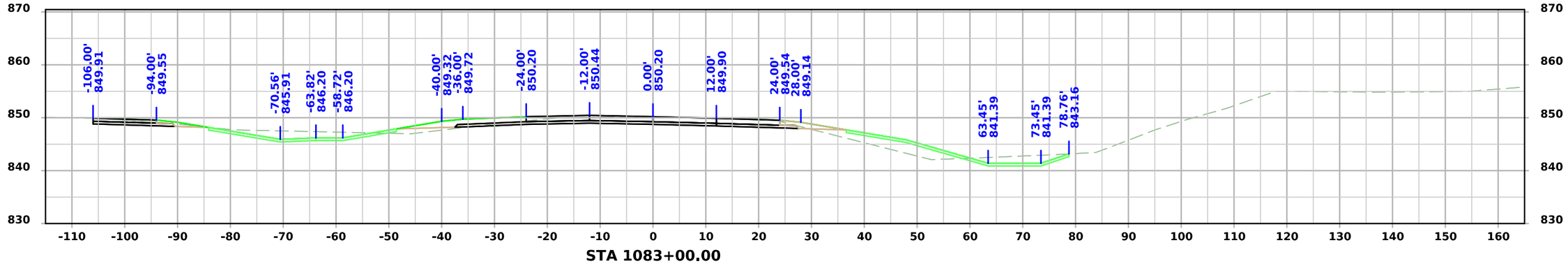


STA 1080+50.00

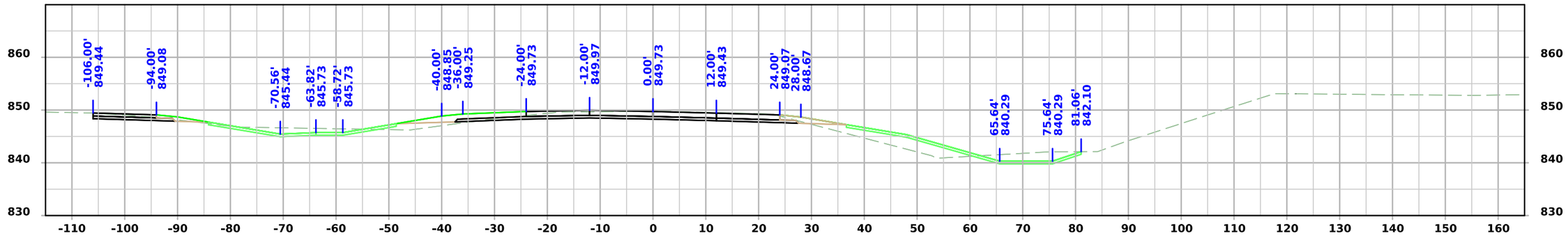
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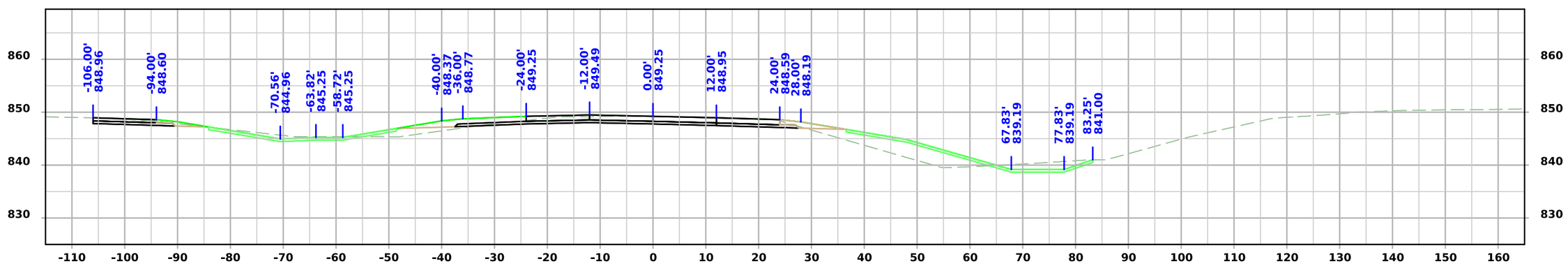
ML - I35 NB



STA 1083+00.00



STA 1082+50.00

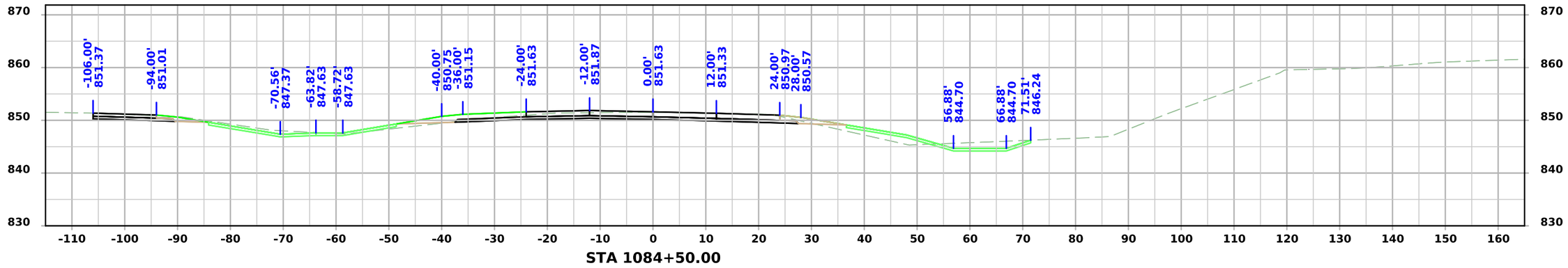


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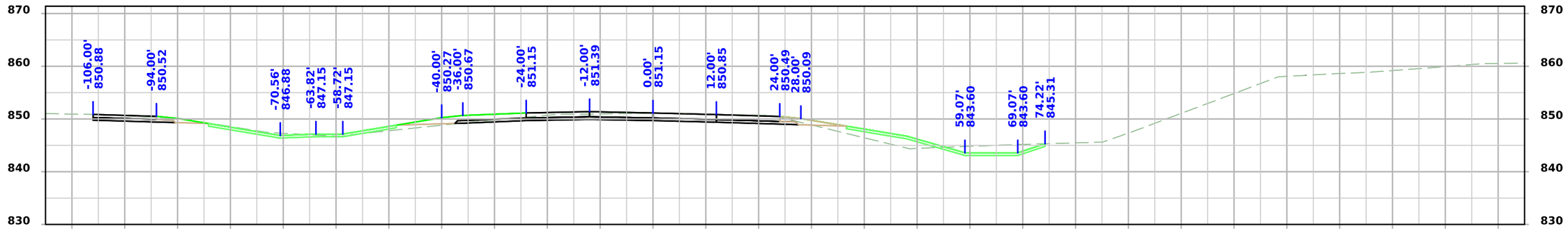
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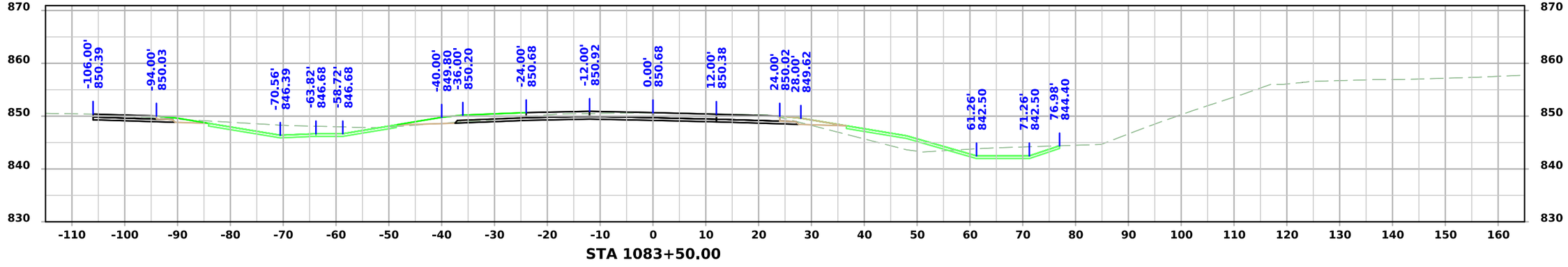
ML - I35 NB



STA 1084+50.00



STA 1084+00.00

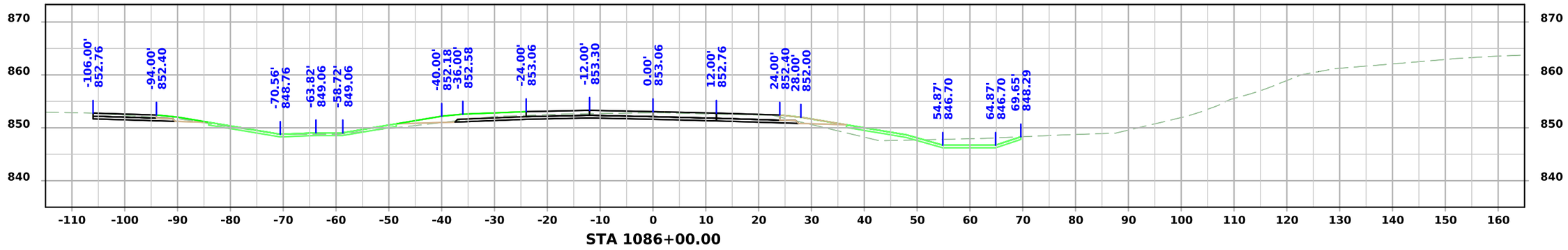


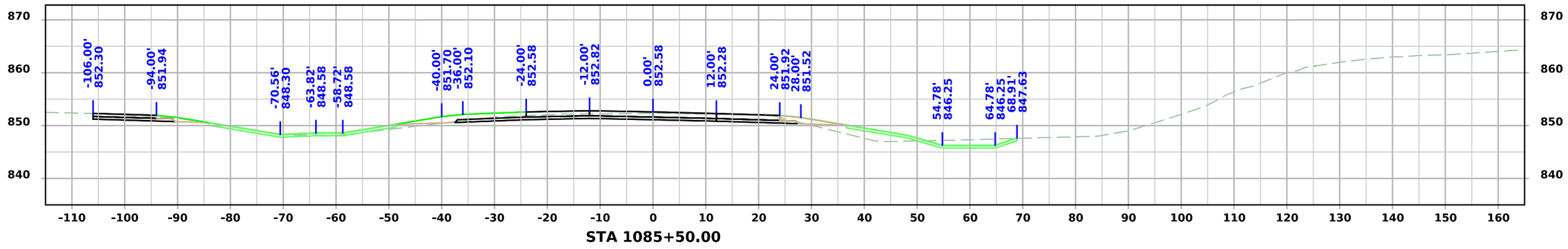
STA 1083+50.00

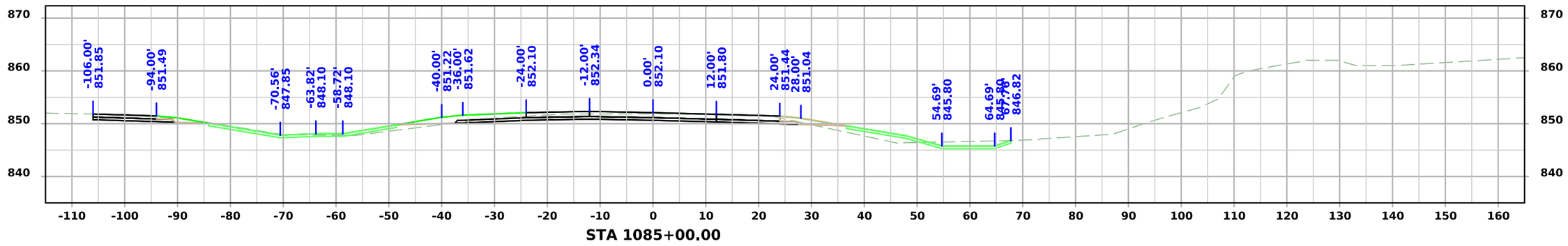
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ML - I35 NB



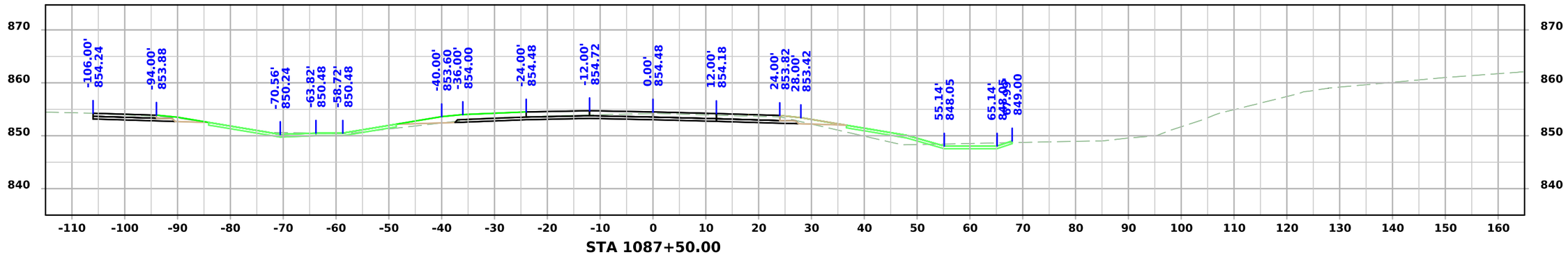




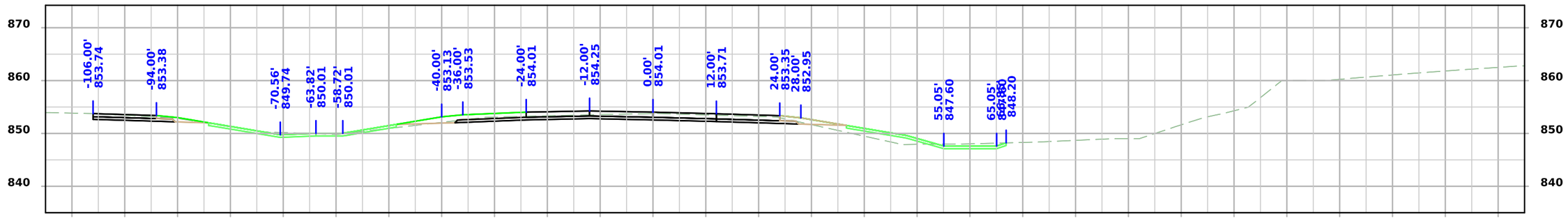
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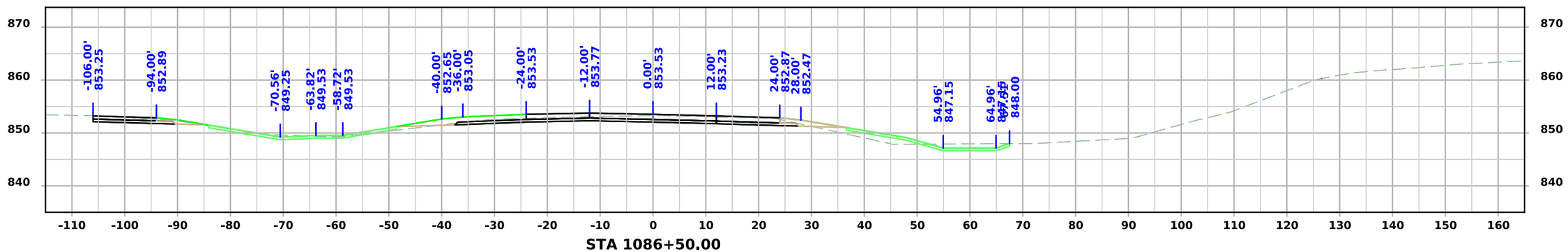
ML - I35 NB



STA 1087+50.00



STA 1087+00.00

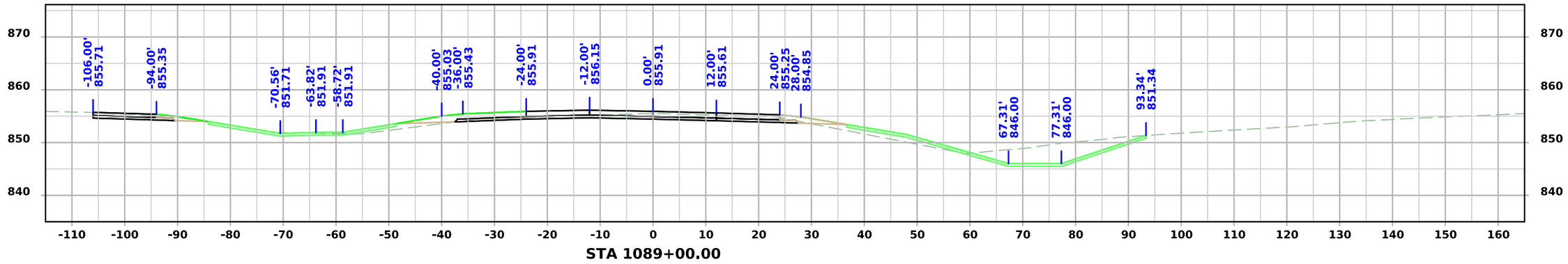


STA 1086+50.00

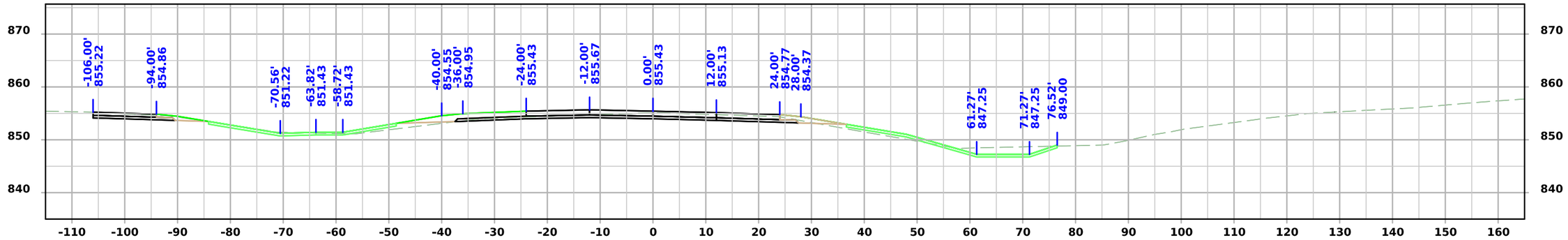
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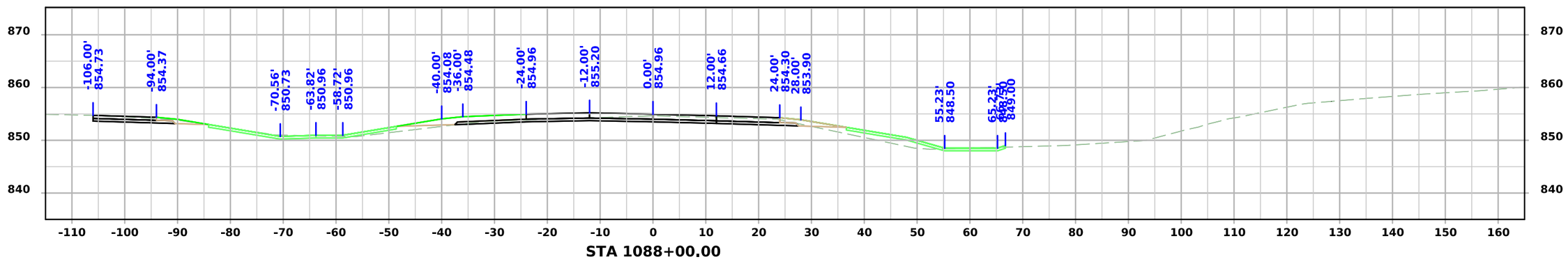
ML - I35 NB



STA 1089+00.00



STA 1088+50.00

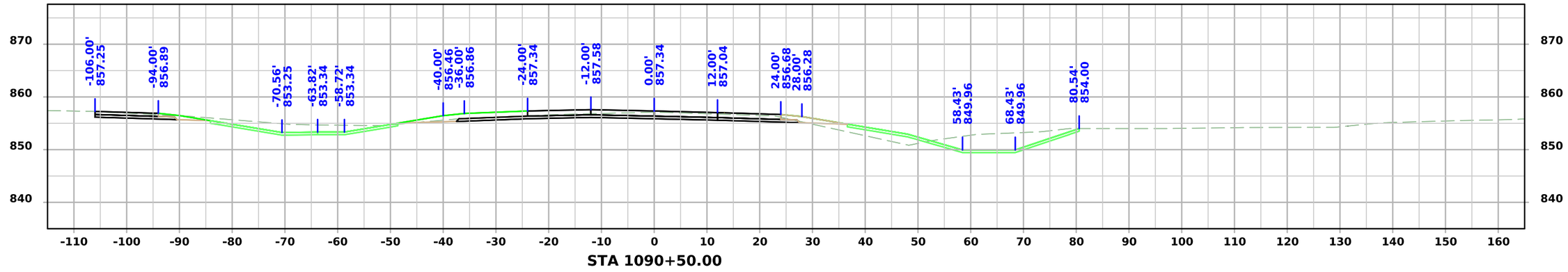


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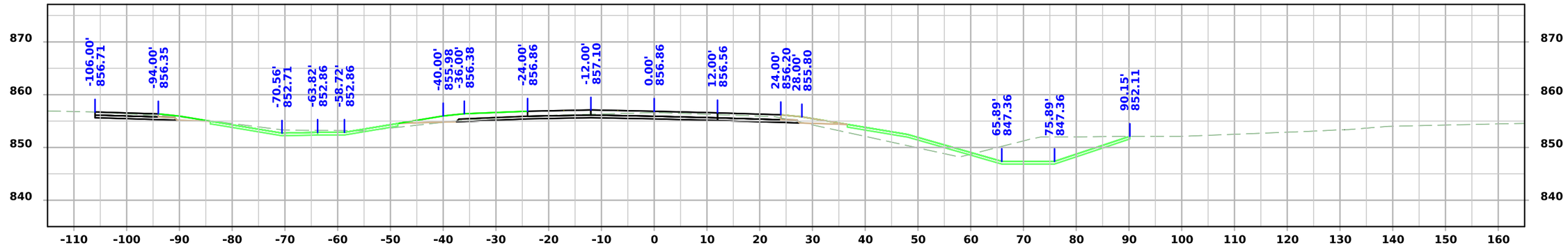
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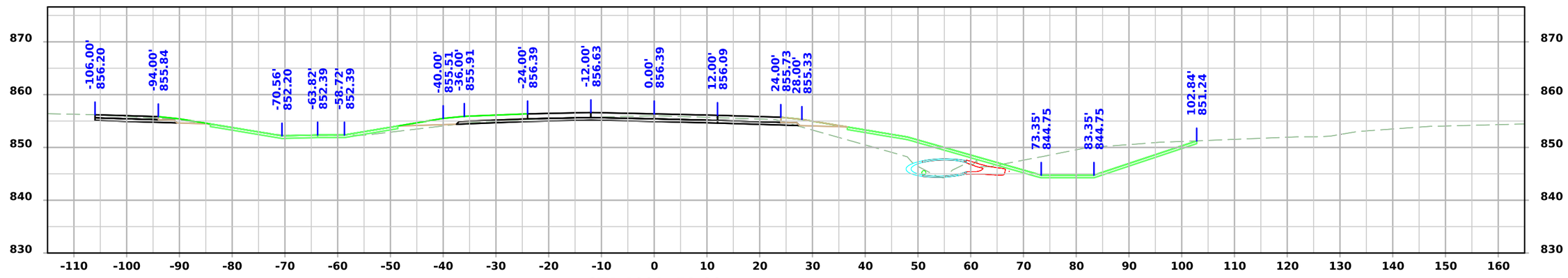
ML - I35 NB



STA 1090+50.00



STA 1090+00.00

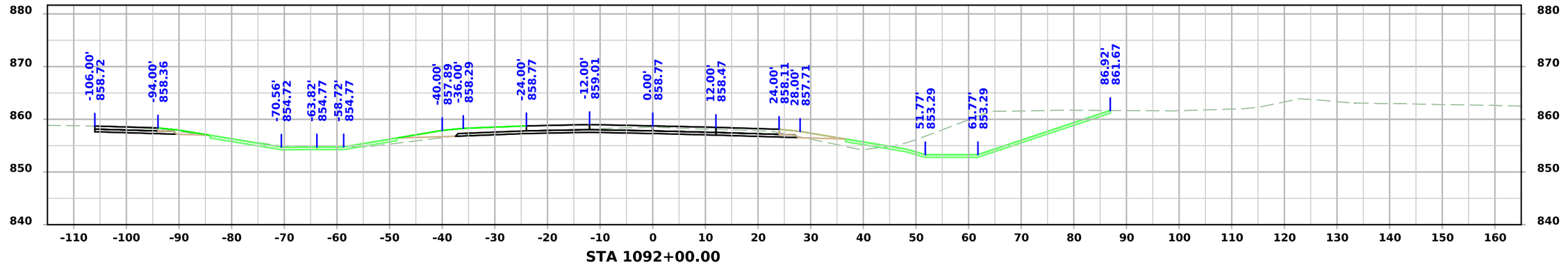


STA 1089+50.00

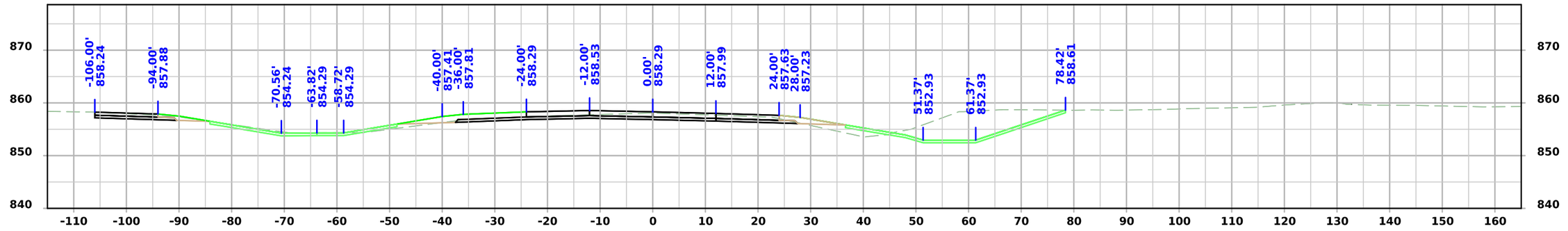
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.13

1:16:01 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

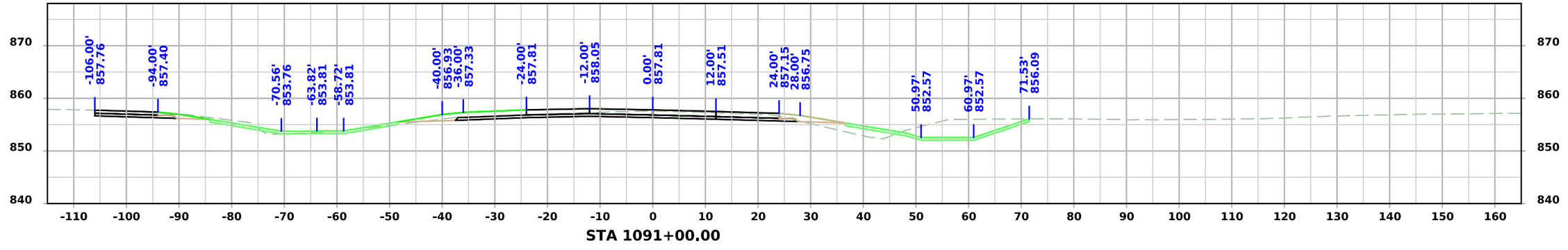
ML - I35 NB



STA 1092+00.00



STA 1091+50.00

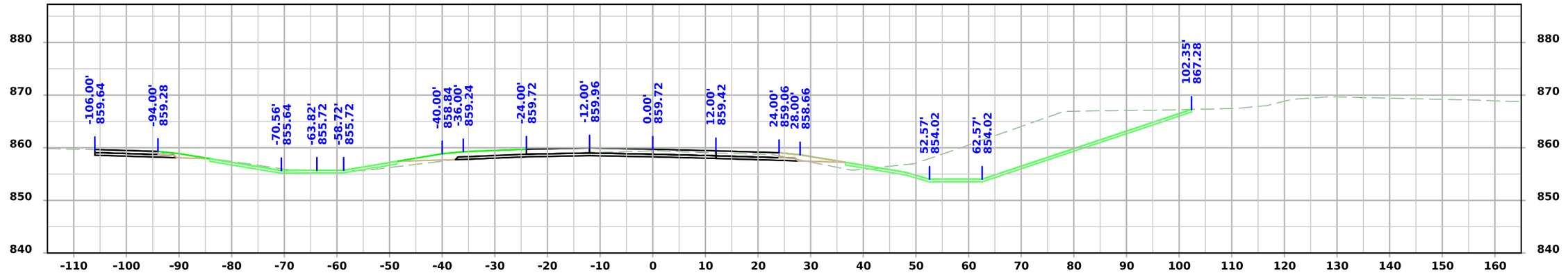


STA 1091+00.00

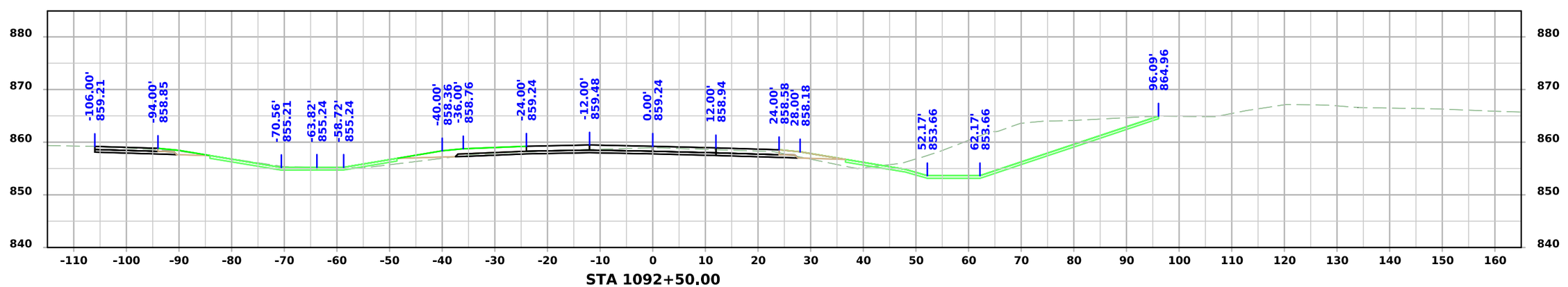
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ML - I35 NB



STA 1093+00.00

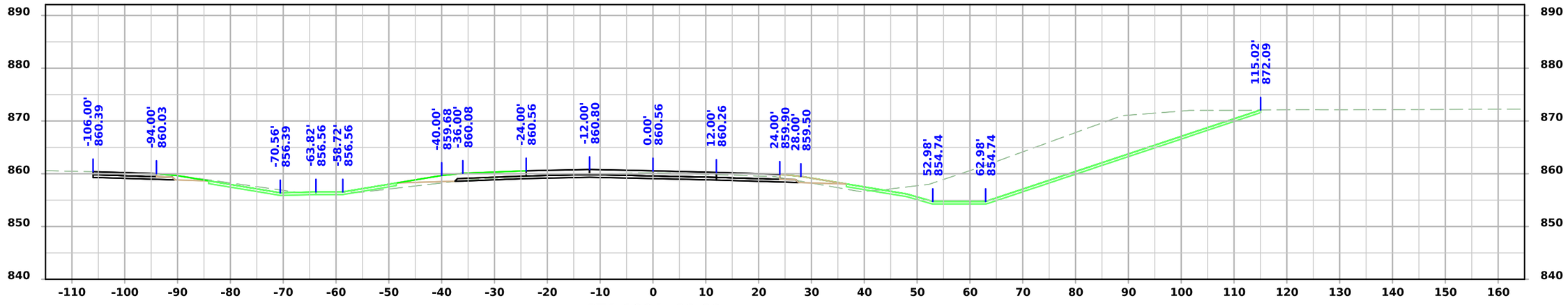


STA 1092+50.00

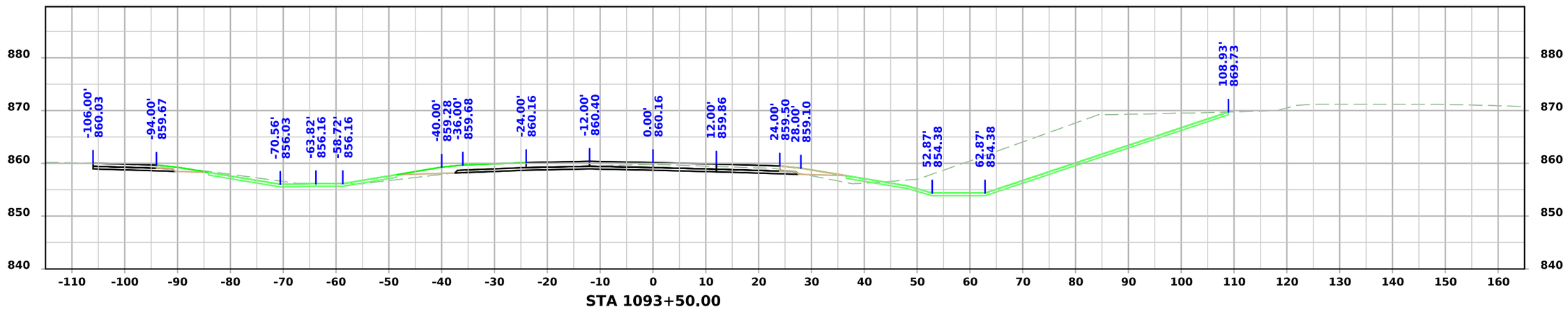
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ML - I35 NB



STA 1094+00.00

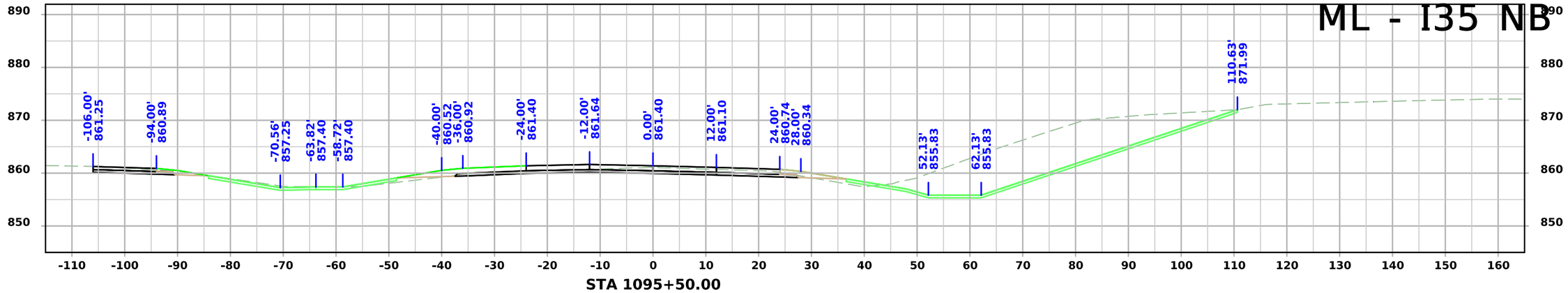


STA 1093+50.00

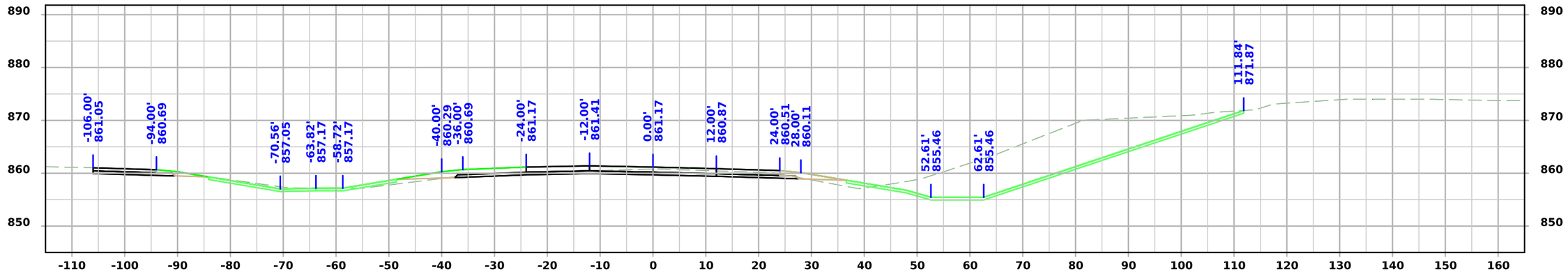
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1:16:07 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

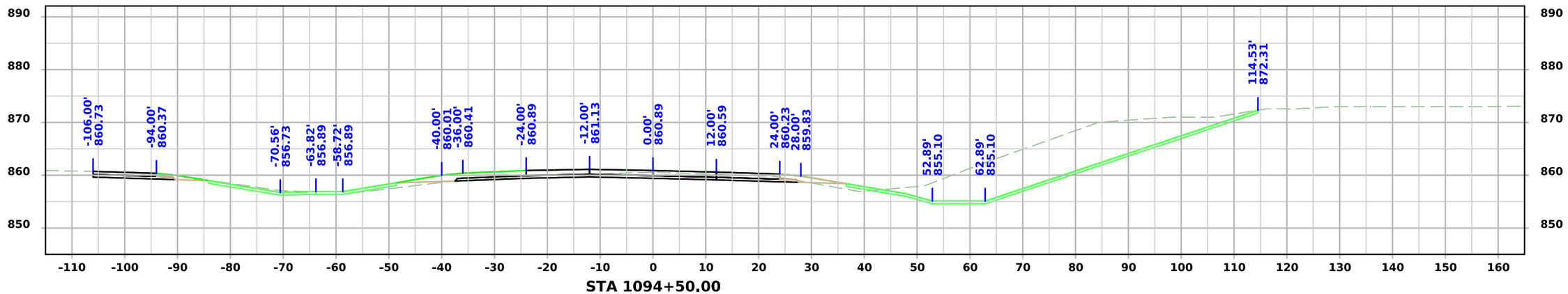
ML - I35 NB



STA 1095+50.00



STA 1095+00.00

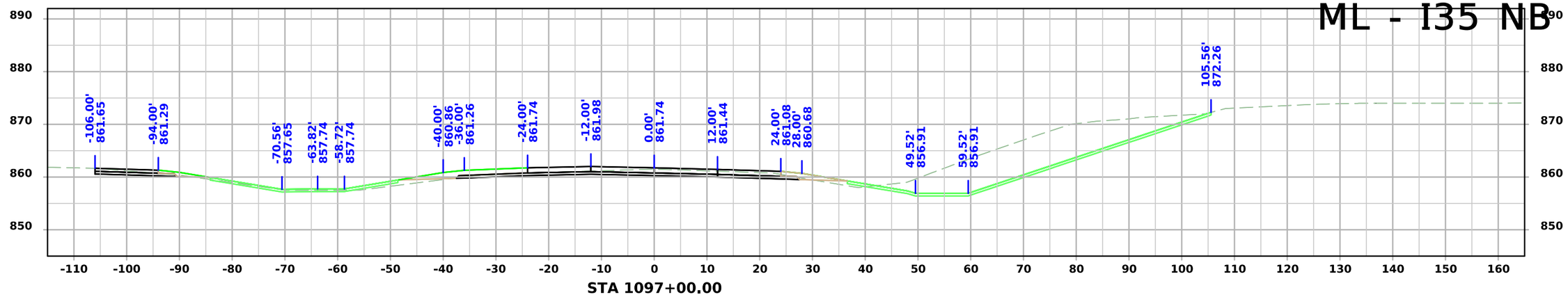


STA 1094+50.00

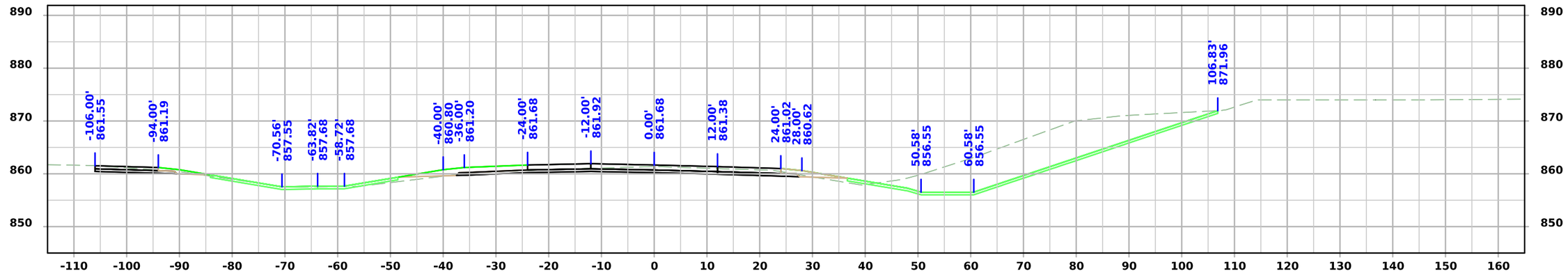
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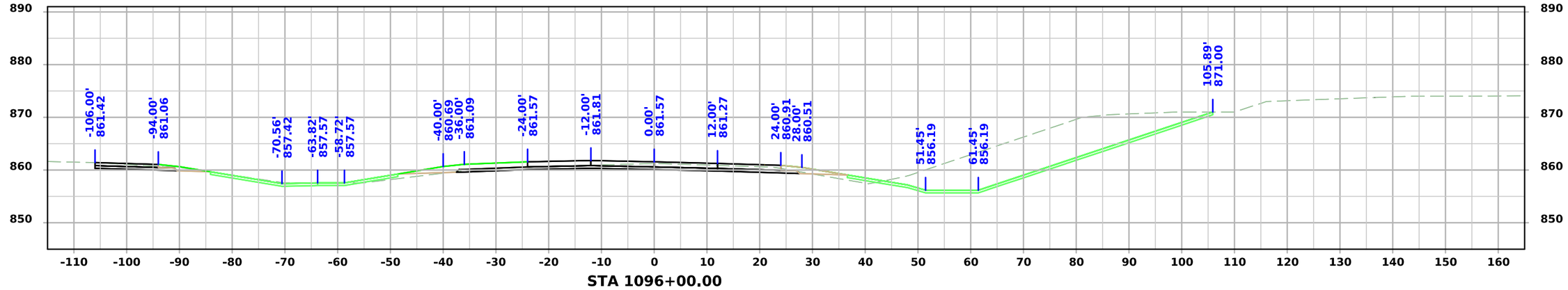
ML - I35 NB



STA 1097+00.00



STA 1096+50.00

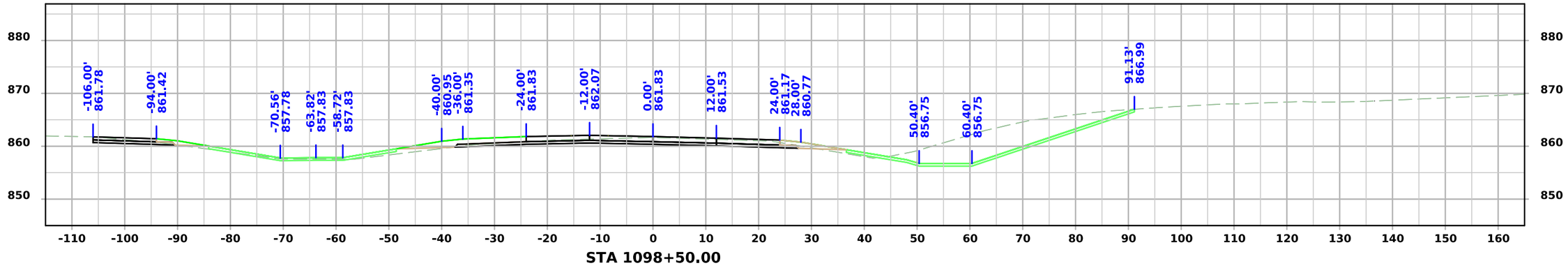


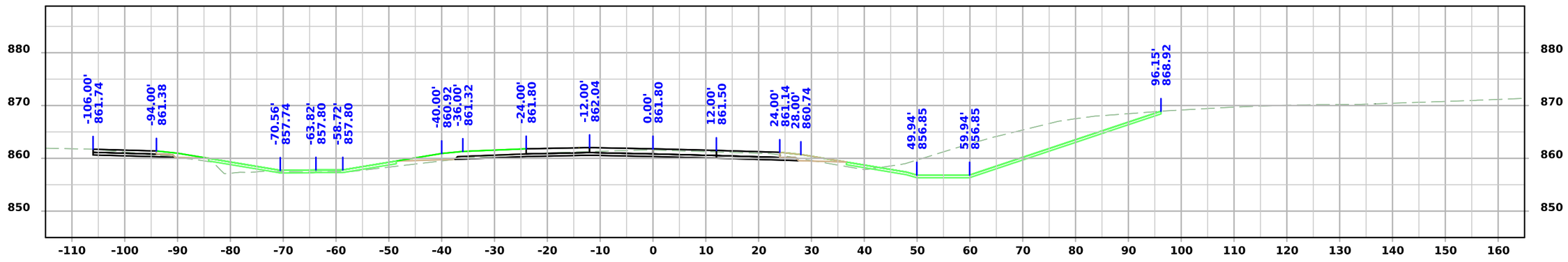
STA 1096+00.00

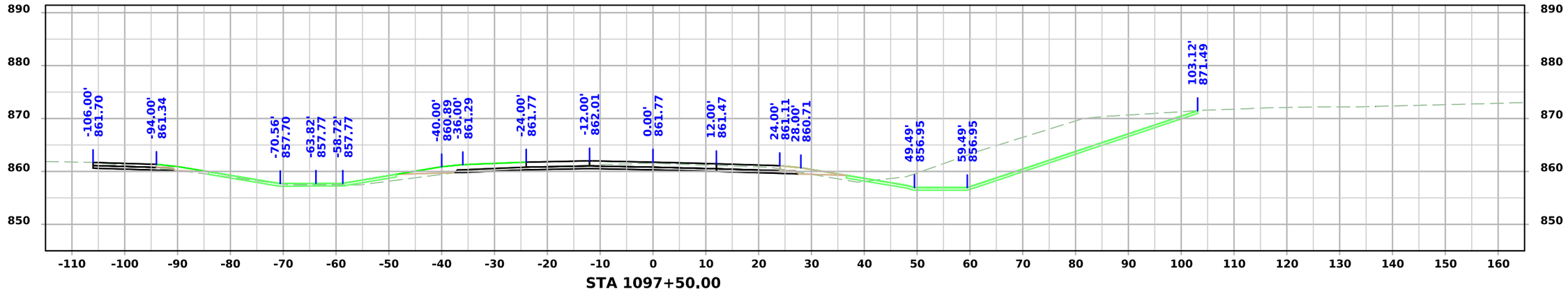
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ML - I35 NB



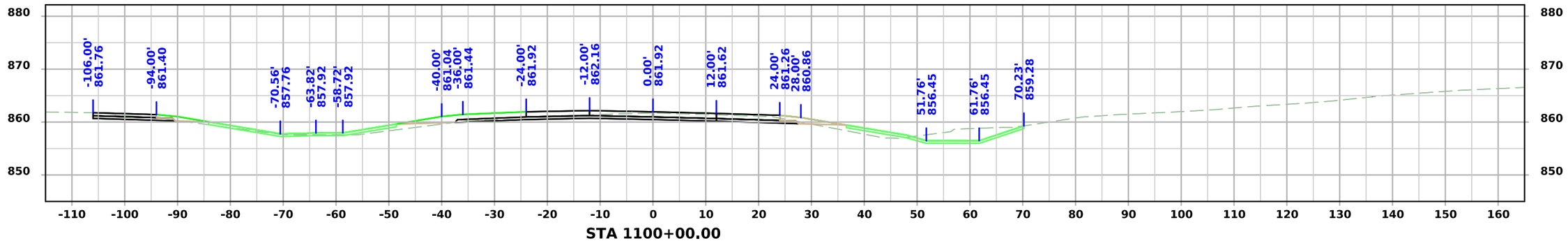




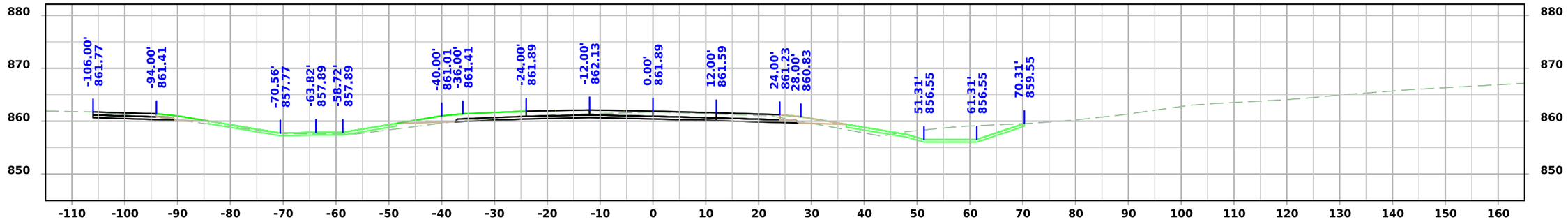
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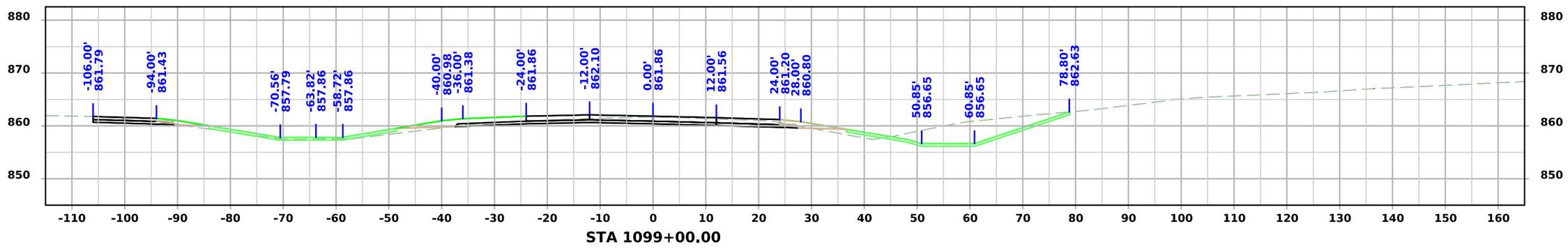
ML - I35 NB



STA 1100+00.00



STA 1099+50.00

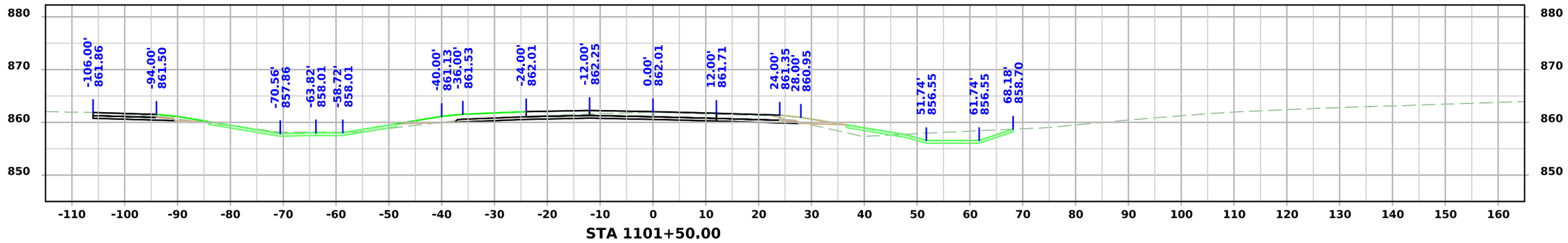


STA 1099+00.00

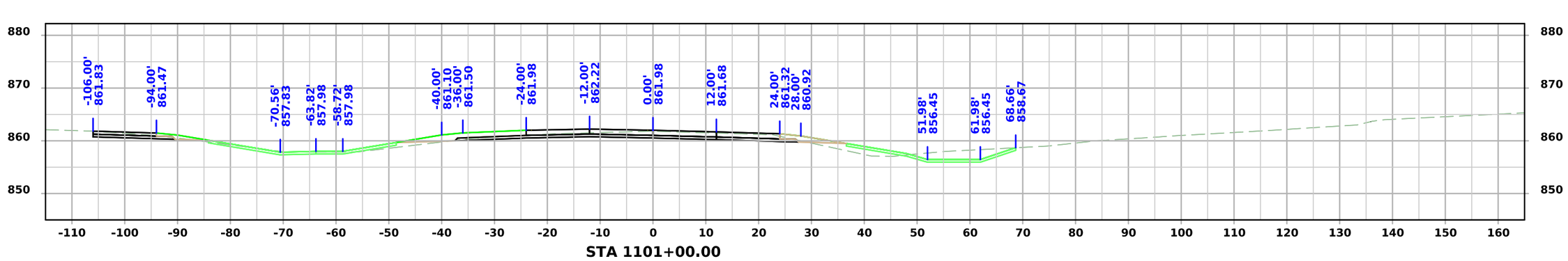
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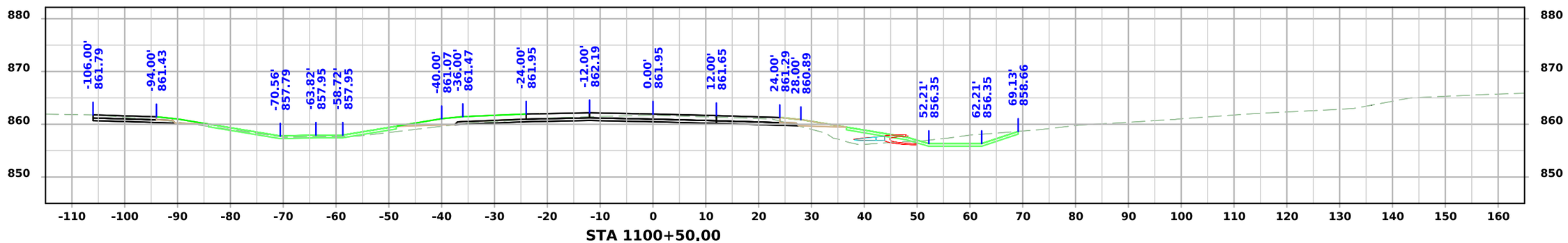
ML - I35 NB



STA 1101+50.00



STA 1101+00.00

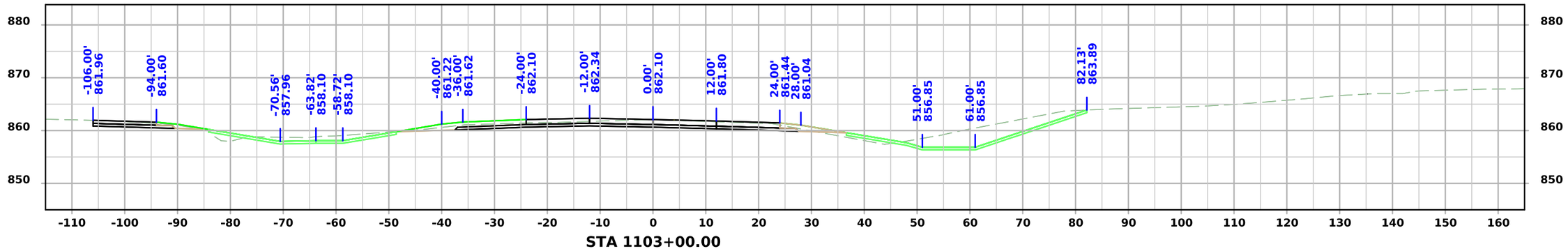


STA 1100+50.00

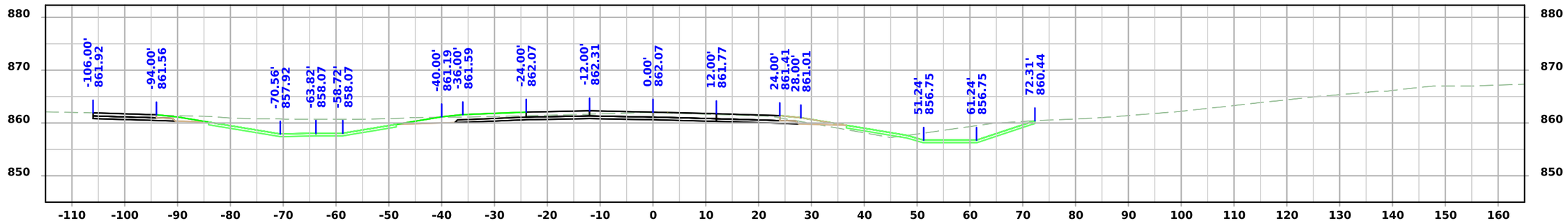
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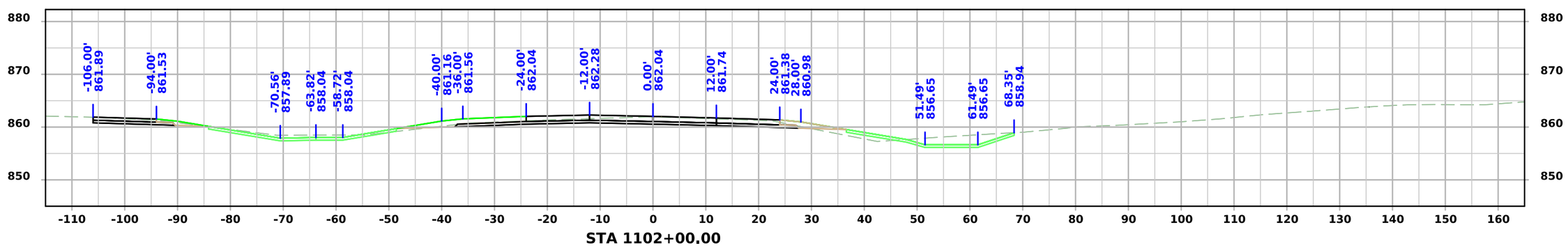
ML - I35 NB



STA 1103+00.00



STA 1102+50.00

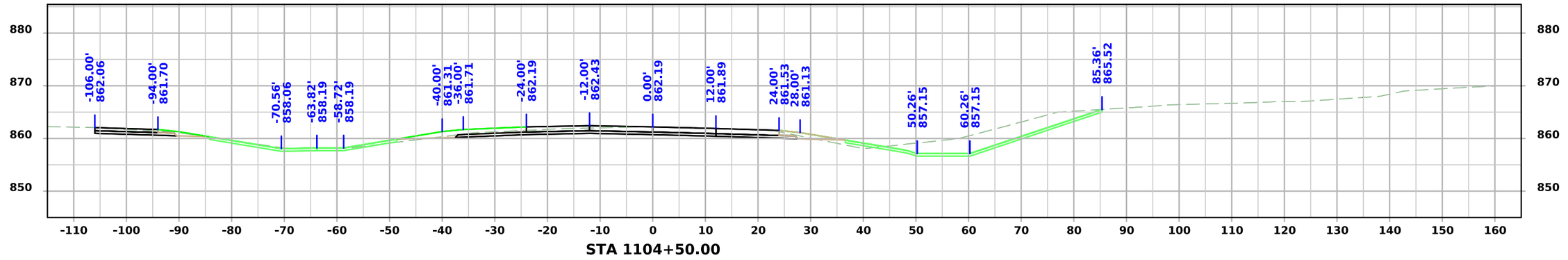


STA 1102+00.00

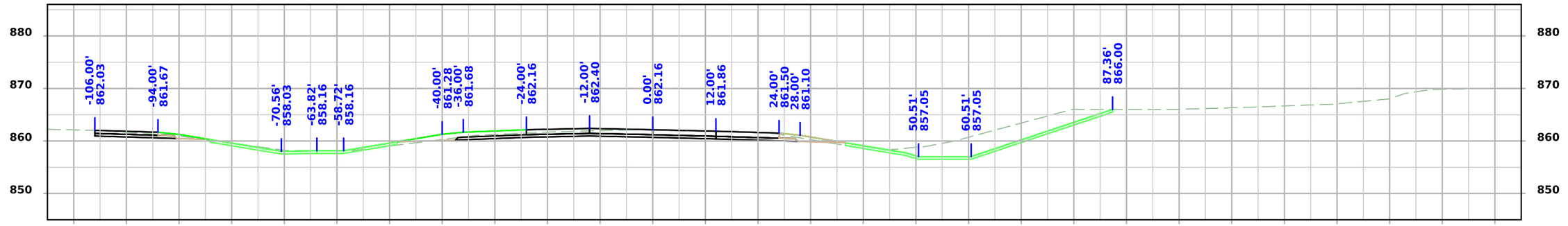
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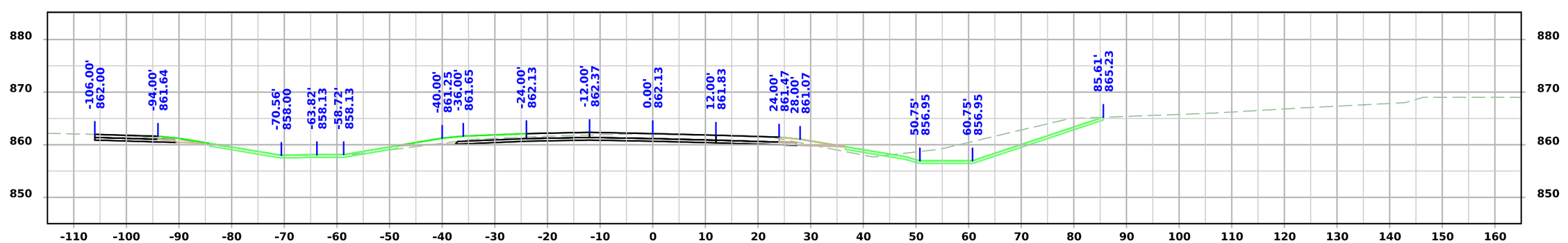
ML - I35 NB



STA 1104+50.00



STA 1104+00.00

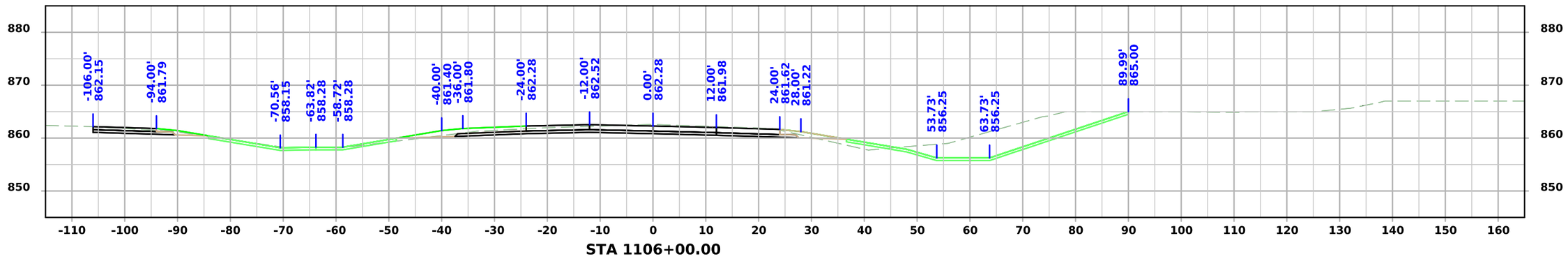


STA 1103+50.00

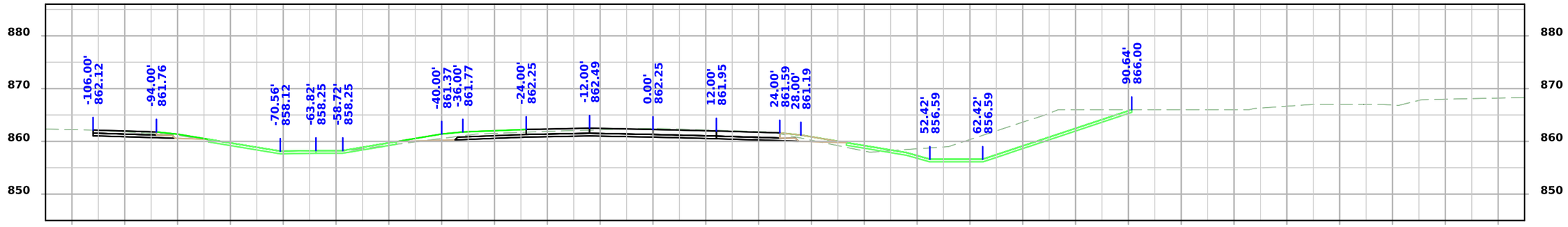
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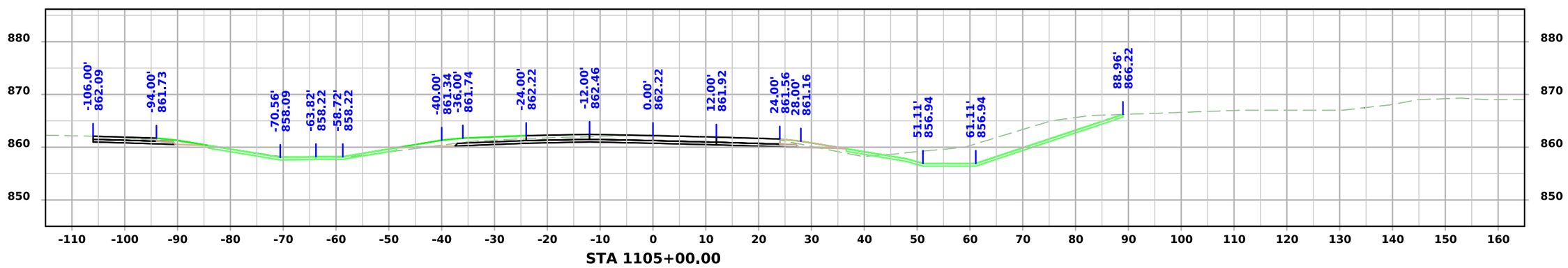
ML - I35 NB



STA 1106+00.00



STA 1105+50.00

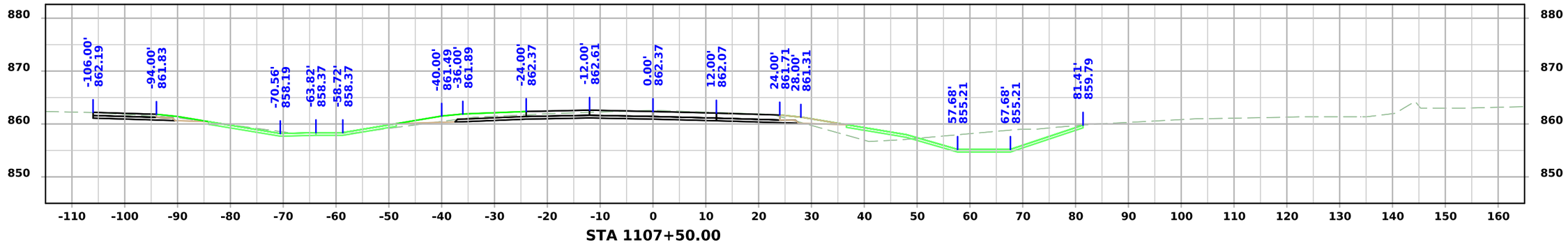


STA 1105+00.00

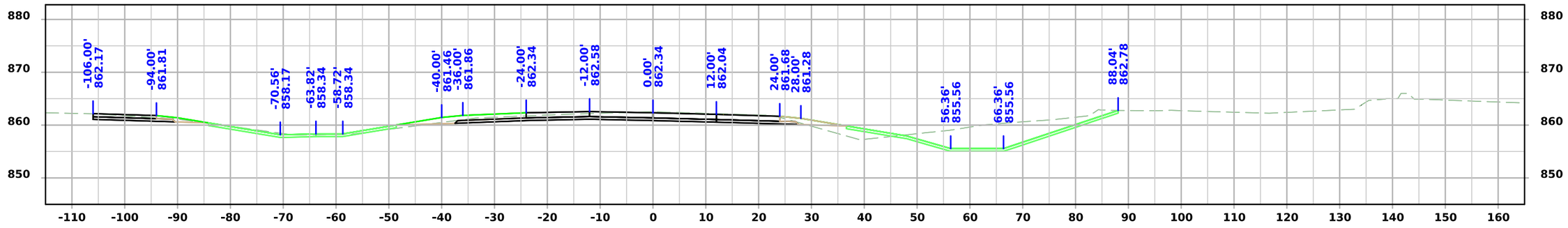
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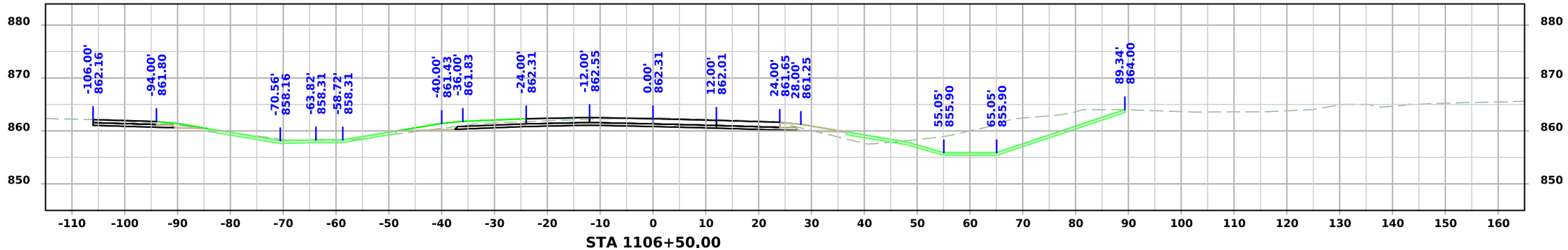
ML - I35 NB



STA 1107+50.00



STA 1107+00.00

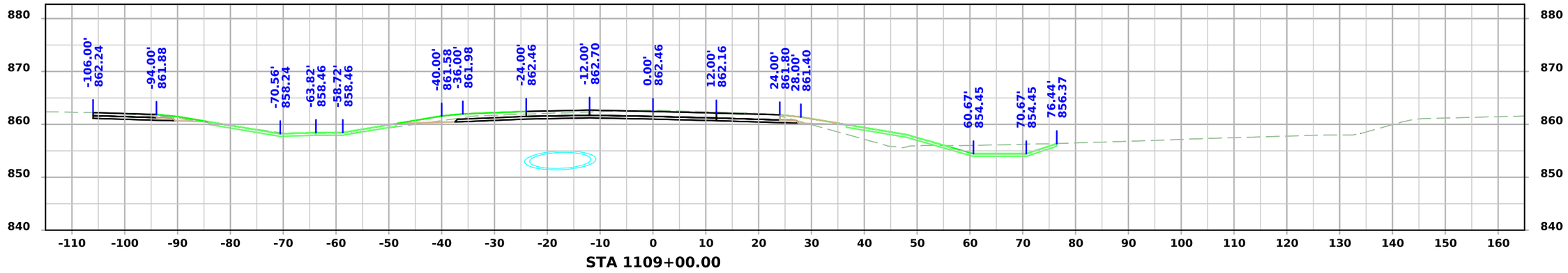


STA 1106+50.00

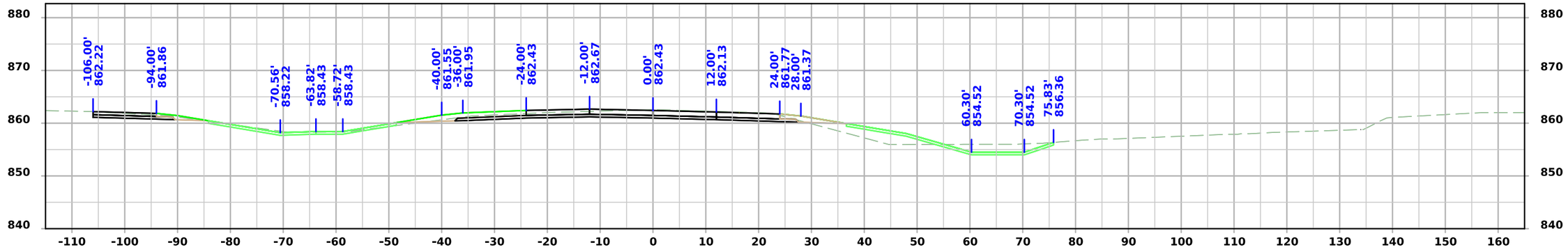
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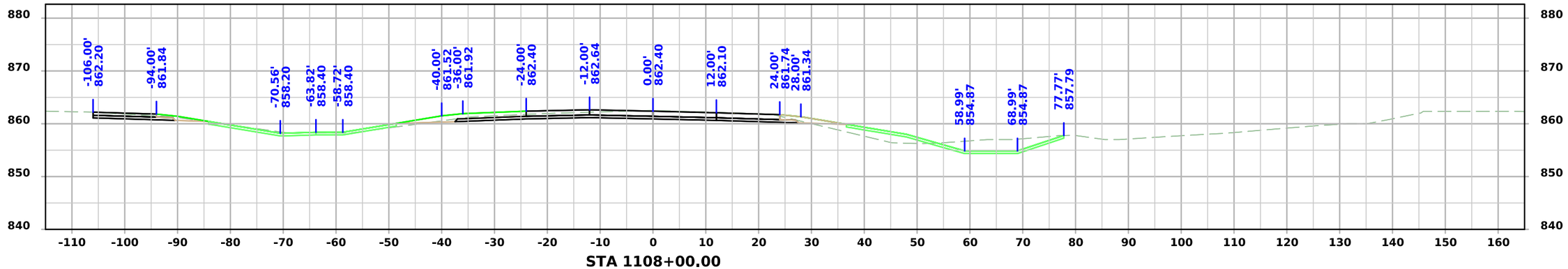
ML - I35 NB



STA 1109+00.00



STA 1108+50.00

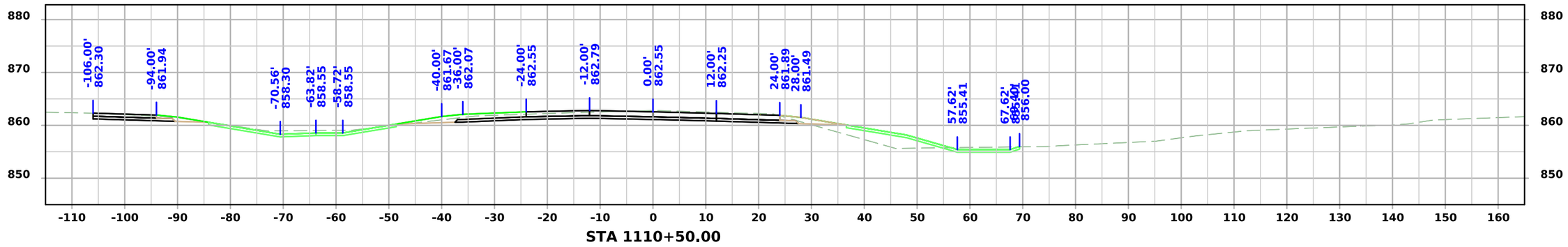


STA 1108+00.00

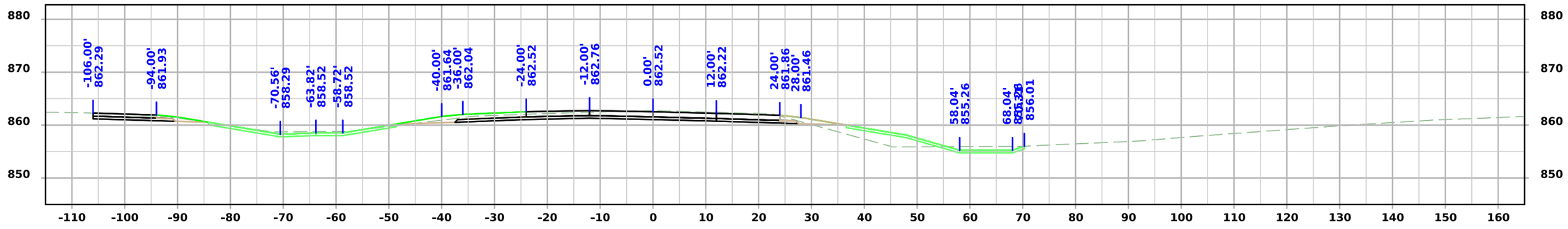
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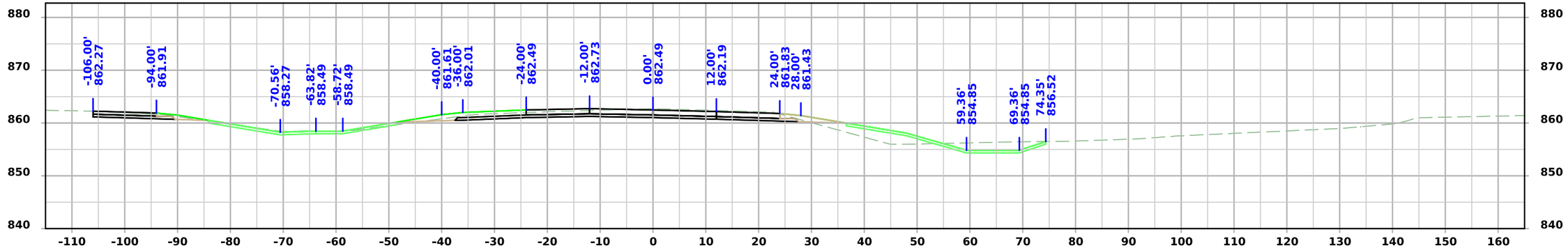
ML - I35 NB



STA 1110+50.00



STA 1110+00.00

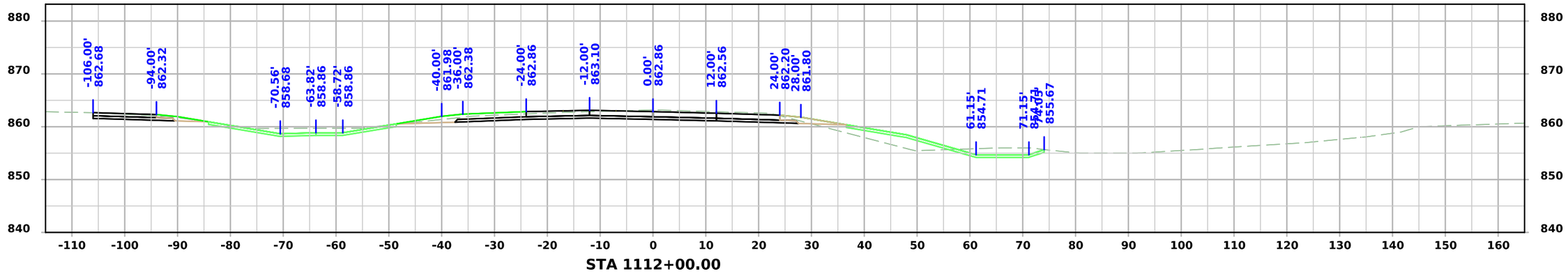


STA 1109+50.00

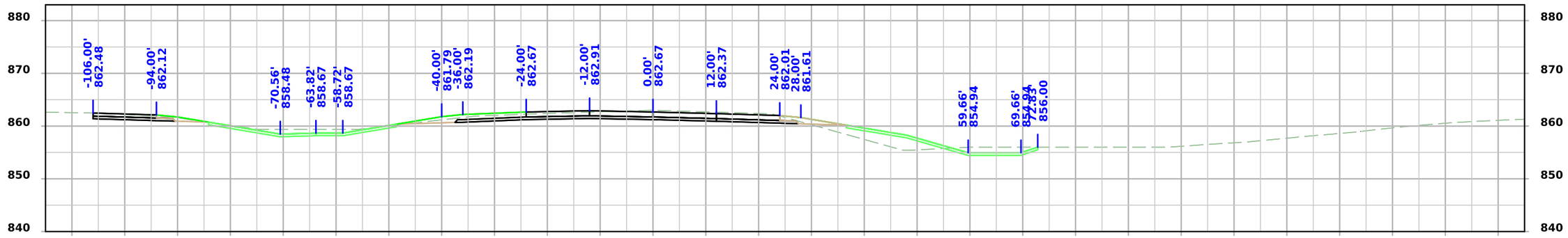
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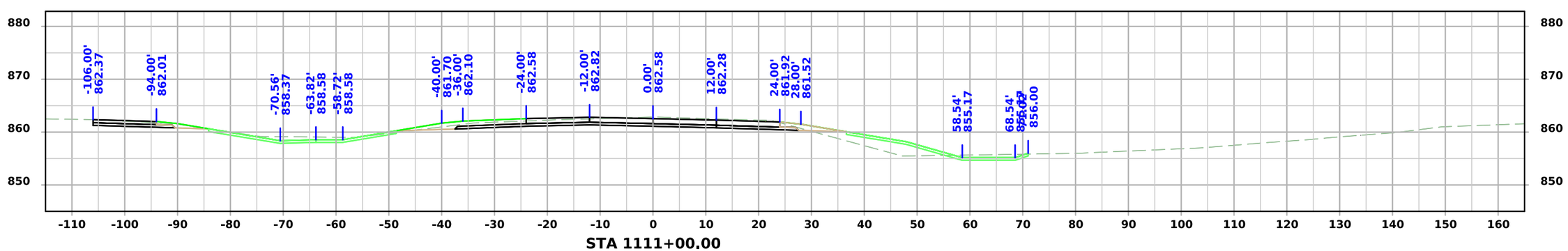
ML - I35 NB



STA 1112+00.00



STA 1111+50.00

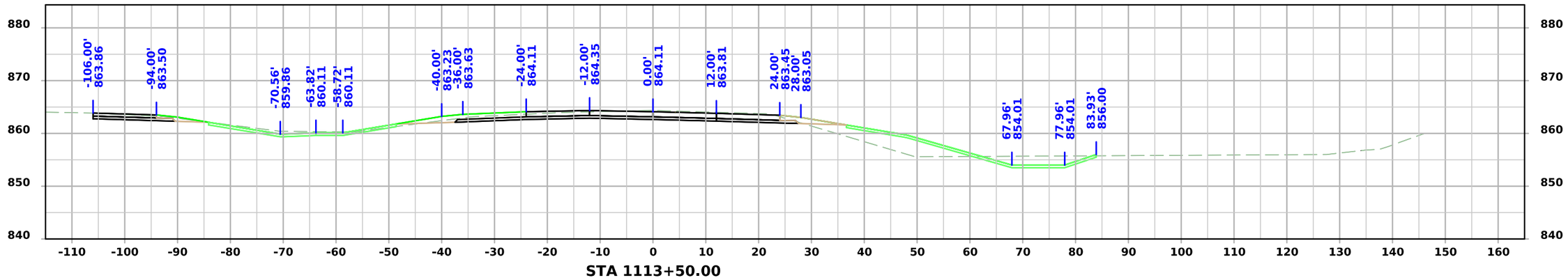


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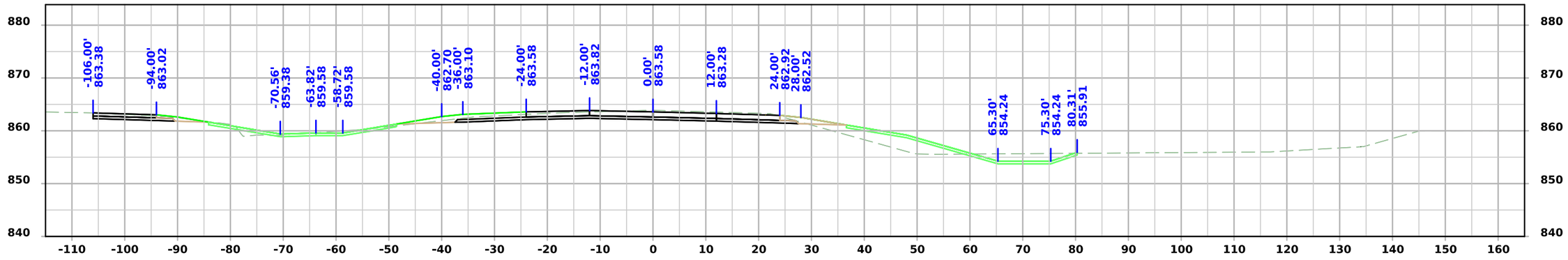
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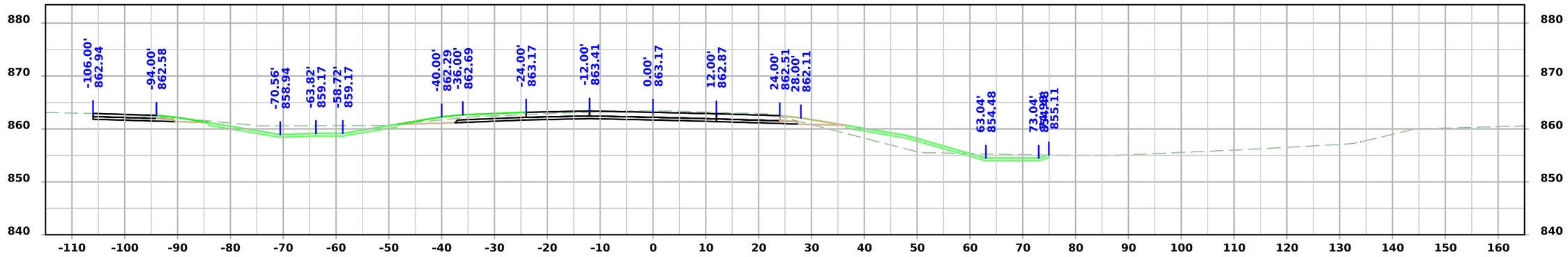
ML - I35 NB



STA 1113+50.00



STA 1113+00.00

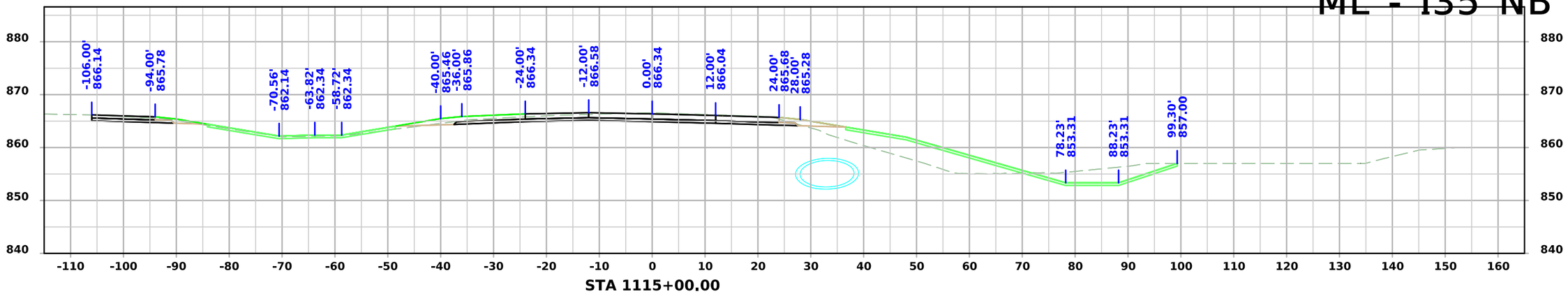


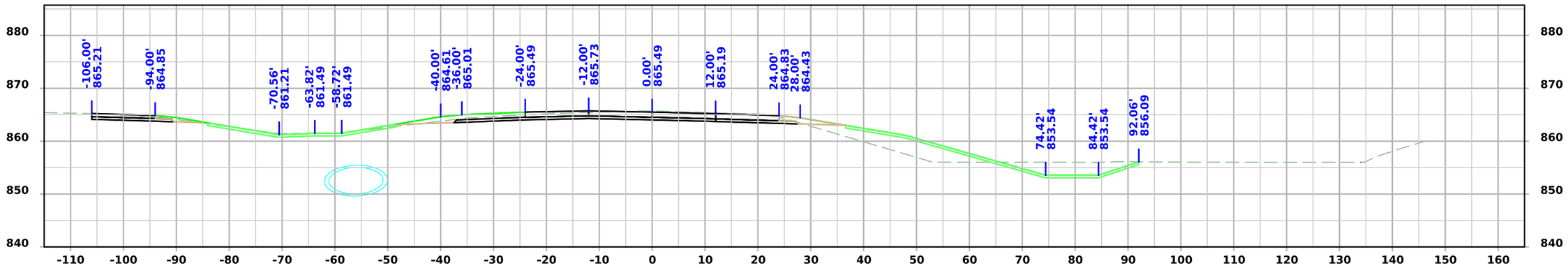
STA 1112+50.00

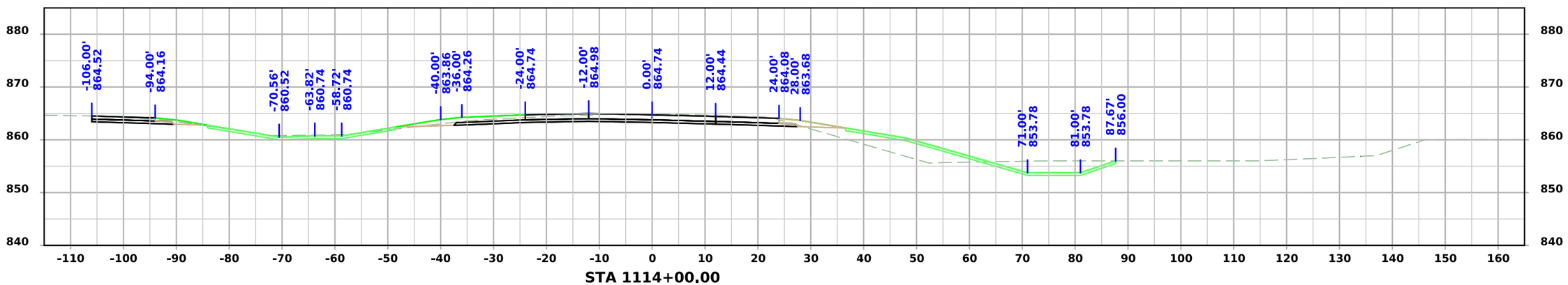
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1:16:32 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



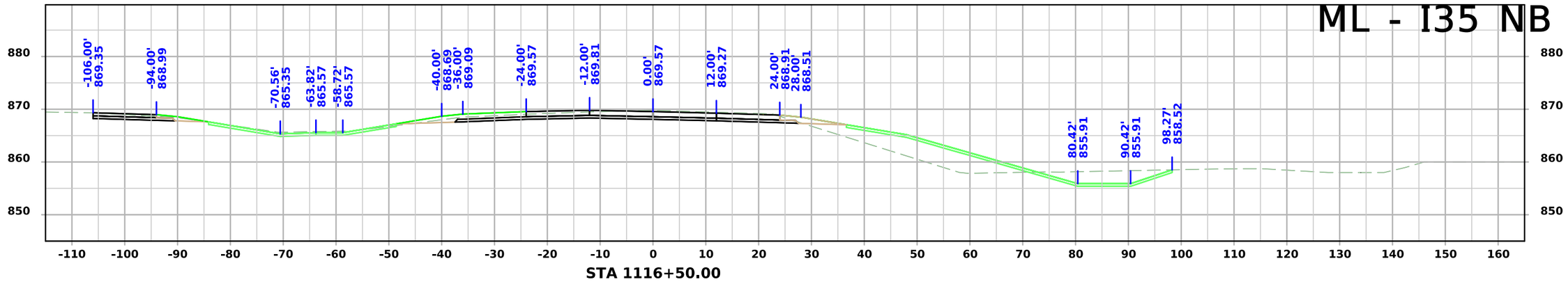




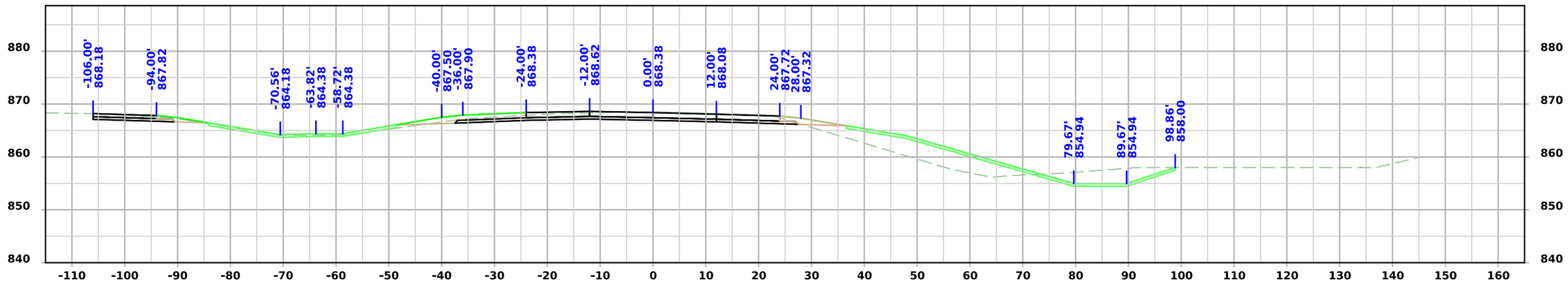
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1:16:34 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

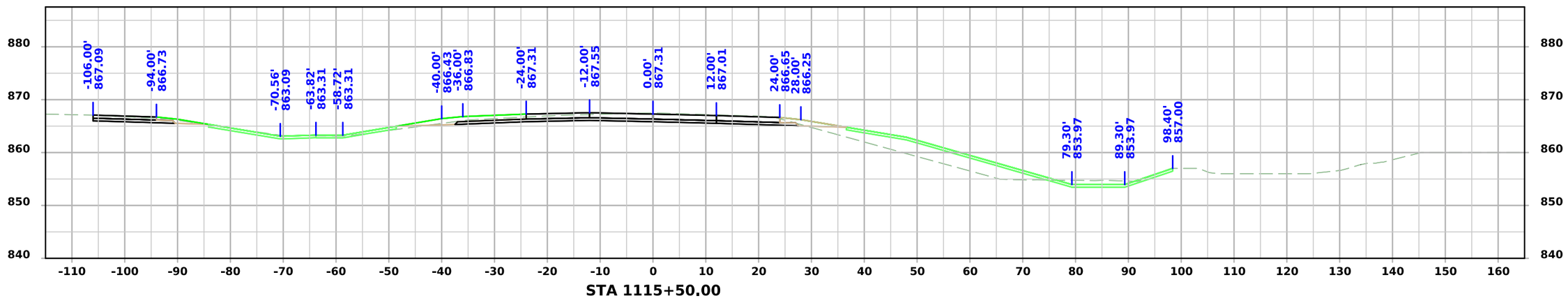
ML - I35 NB



STA 1116+50.00



STA 1116+00.00

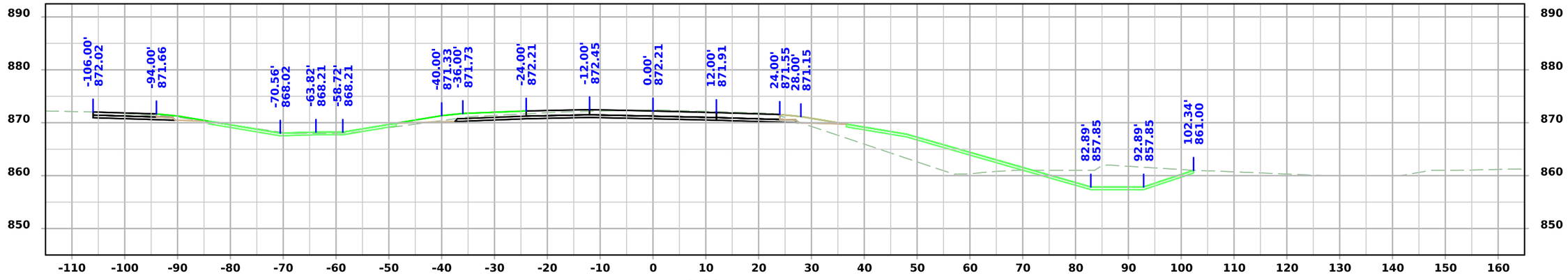


STA 1115+50.00

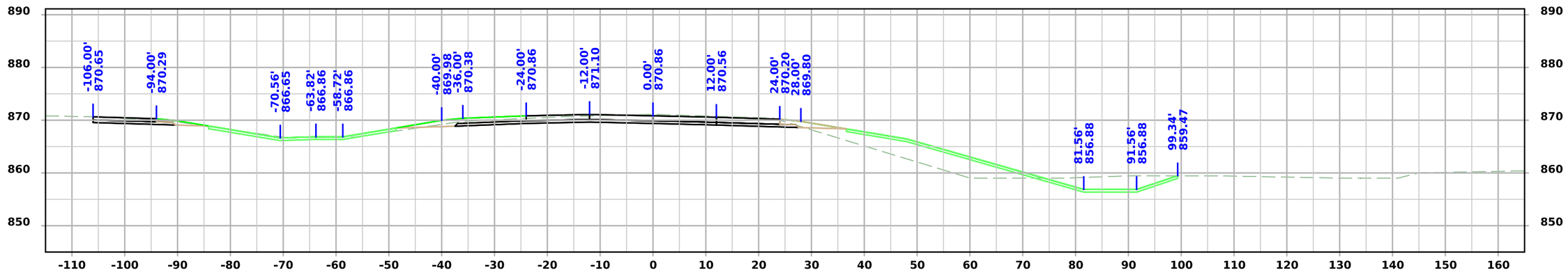
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ML - I35 NB



STA 1117+50.00

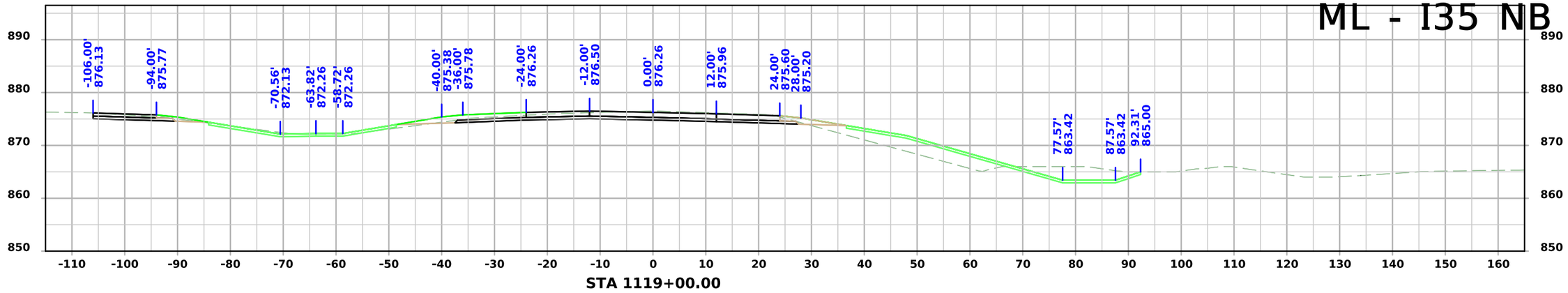


STA 1117+00.00

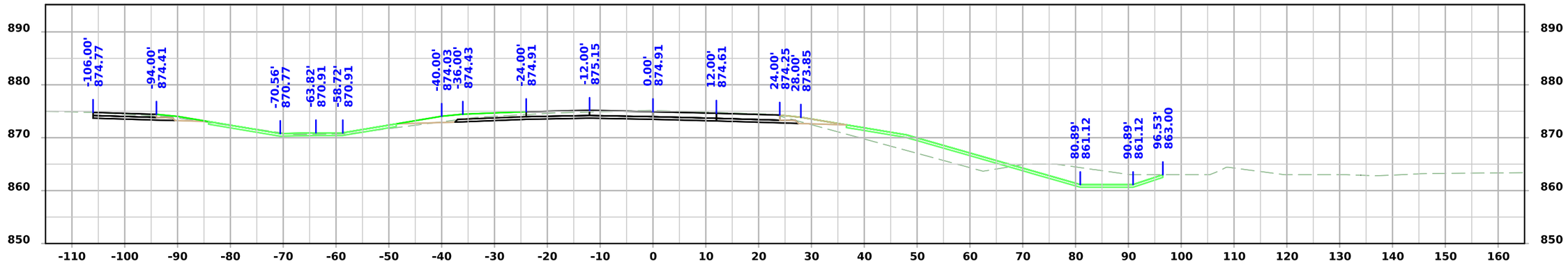
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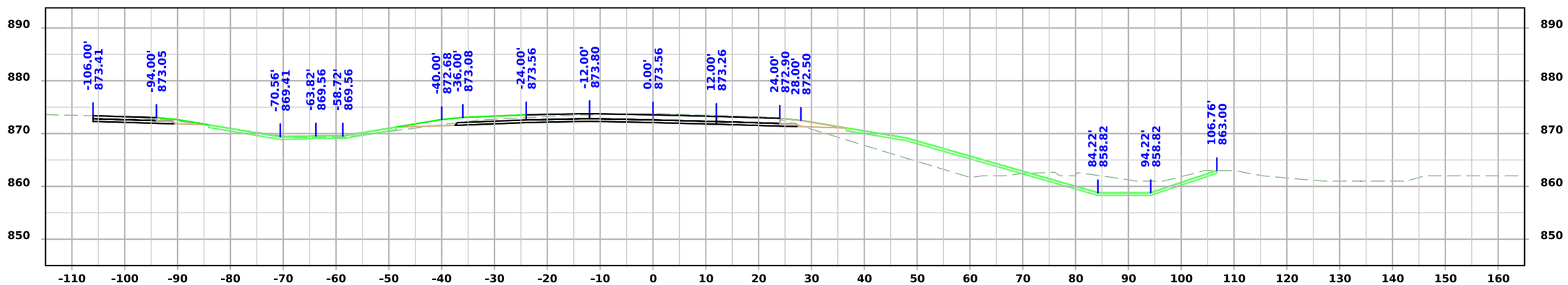
ML - I35 NB



STA 1119+00.00



STA 1118+50.00

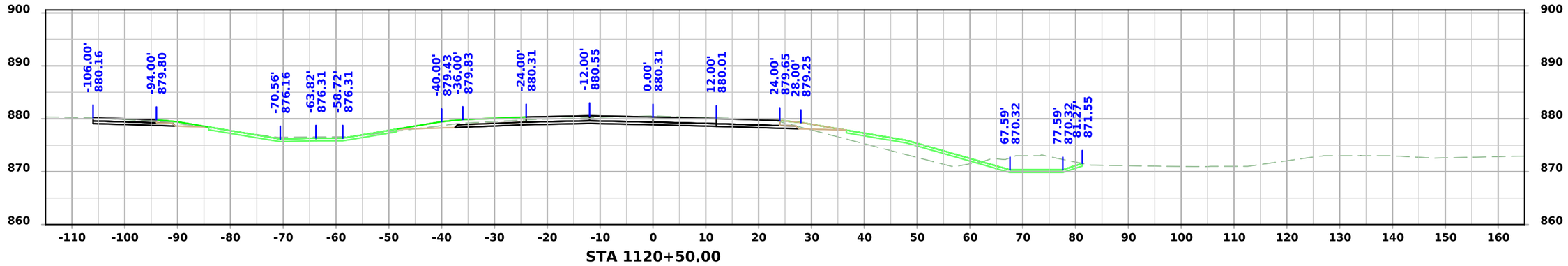


STA 1118+00.00

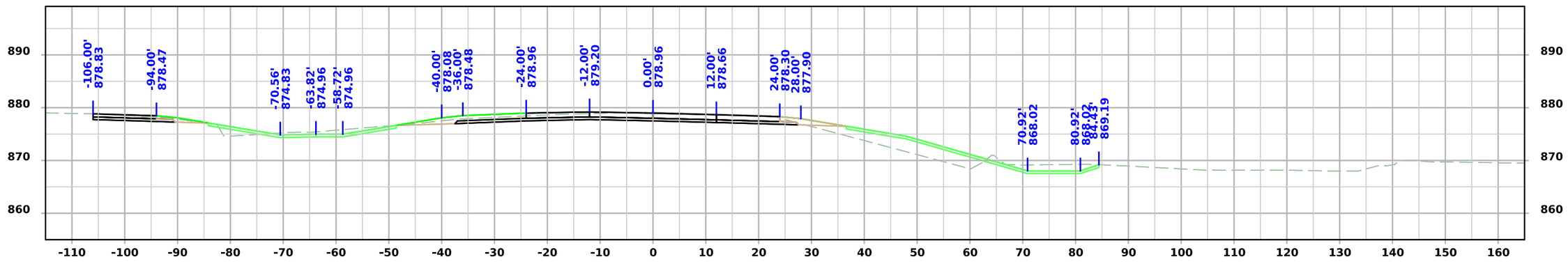
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.33

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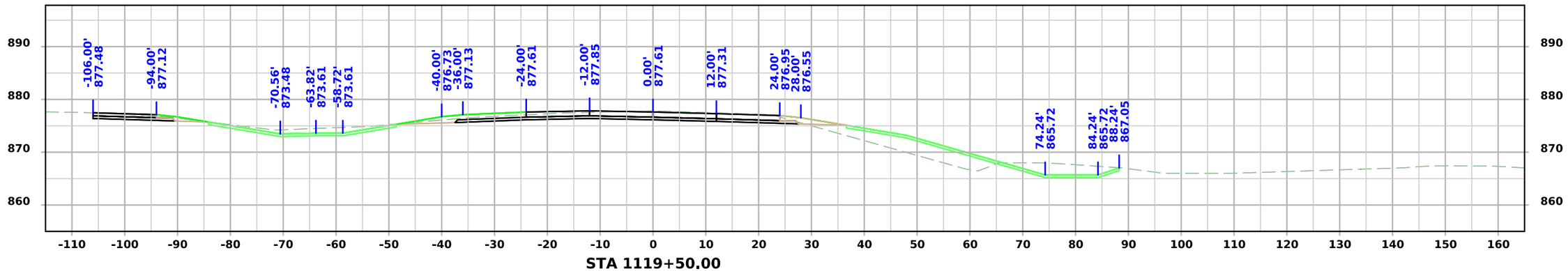
ML - I35 NB



STA 1120+50.00



STA 1120+00.00

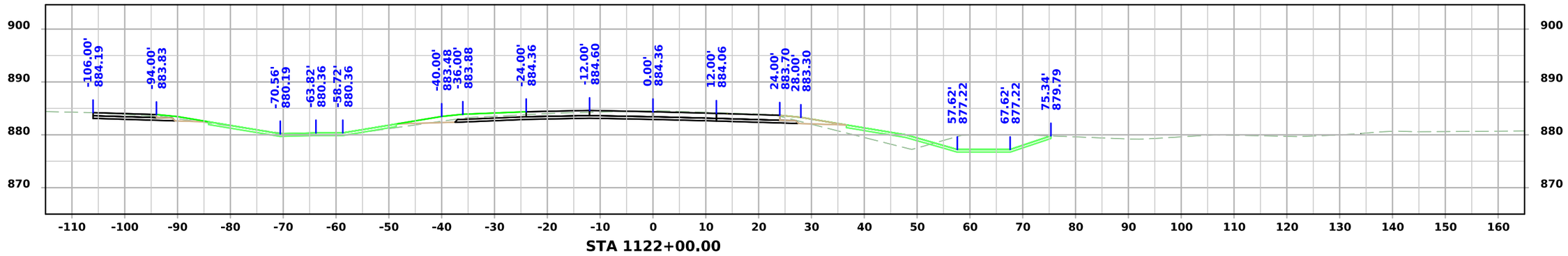


STA 1119+50.00

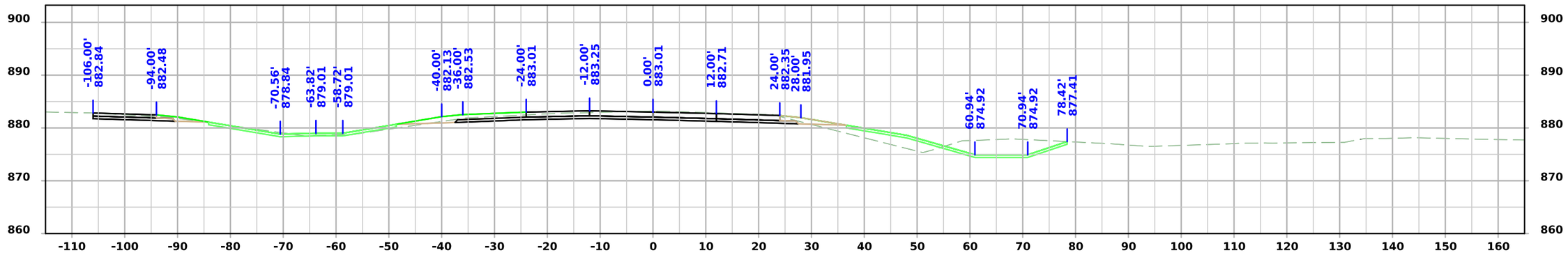
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.34

1:16:41 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

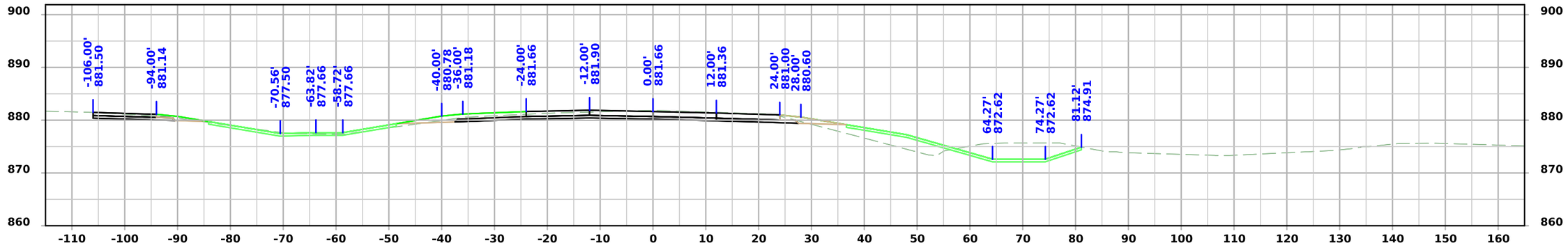
ML - I35 NB



STA 1122+00.00



STA 1121+50.00

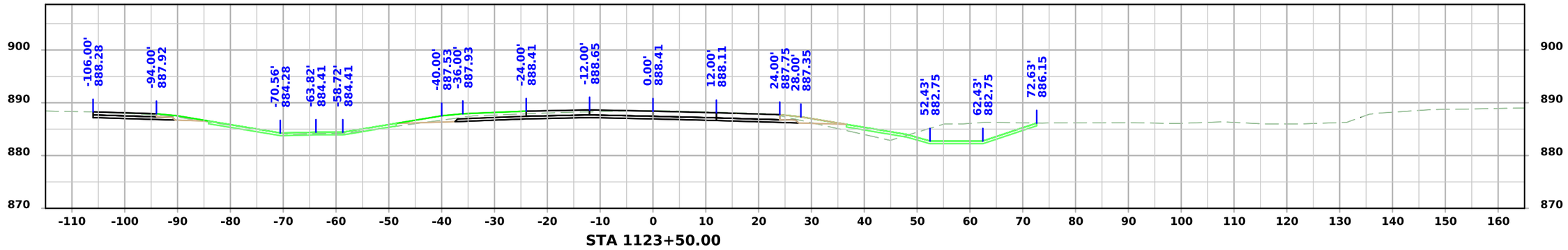


STA 1121+00.00

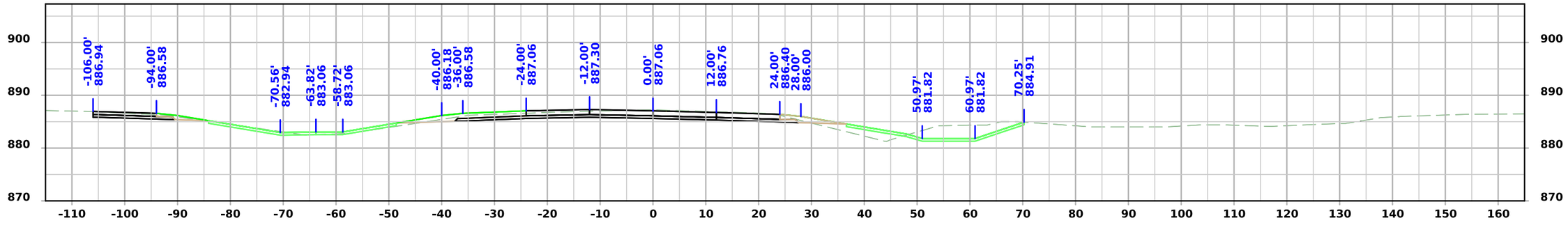
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1:16:43 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

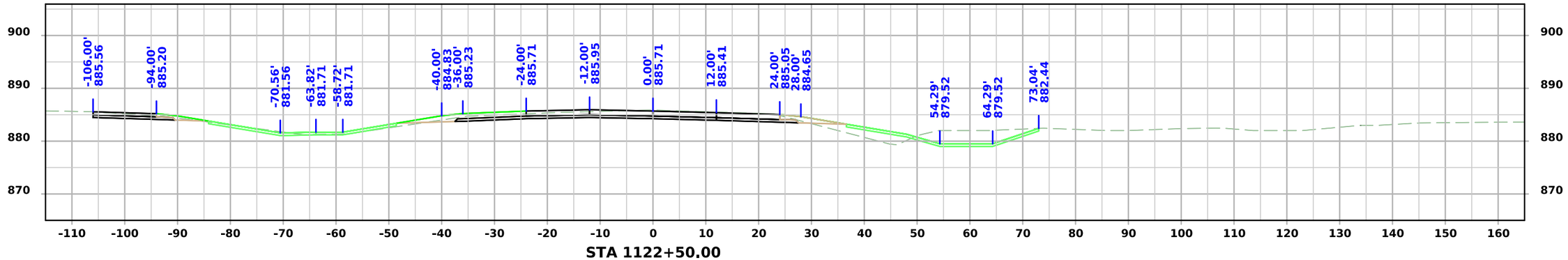
ML - I35 NB



STA 1123+50.00



STA 1123+00.00

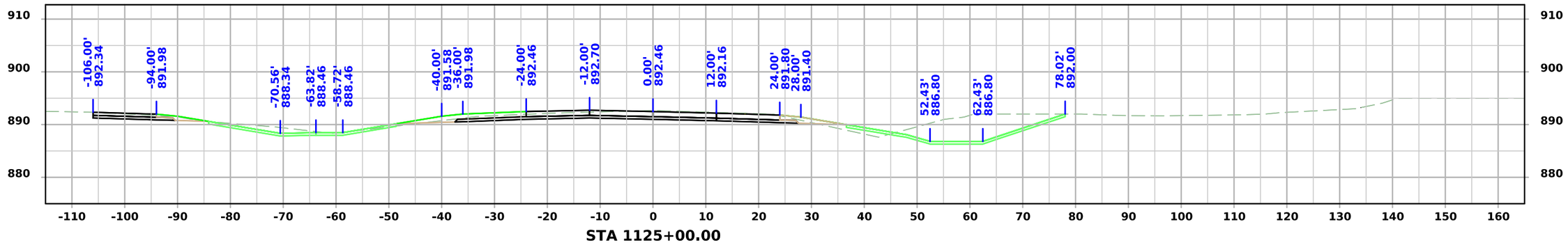


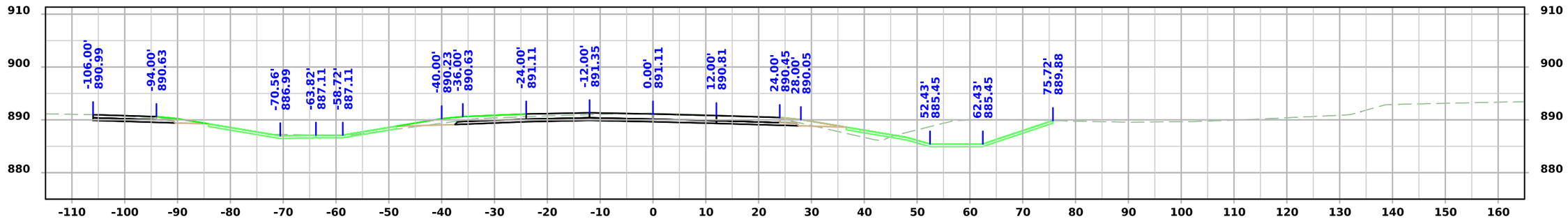
STA 1122+50.00

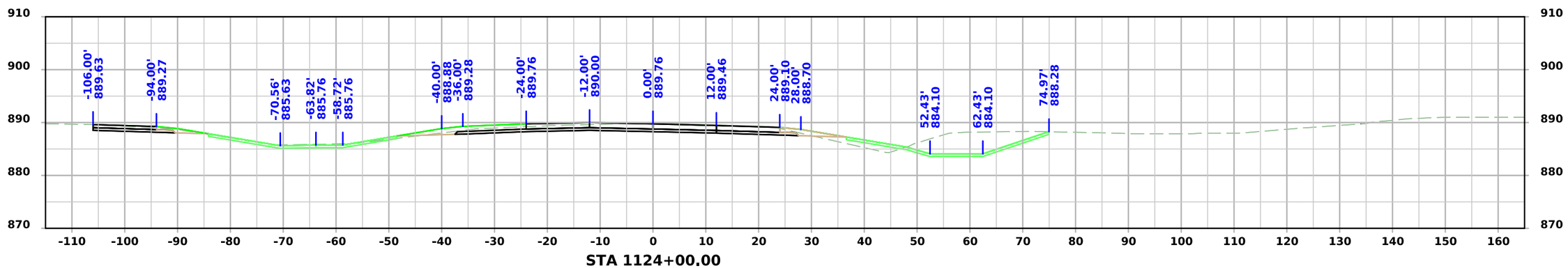
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ML - I35 NB



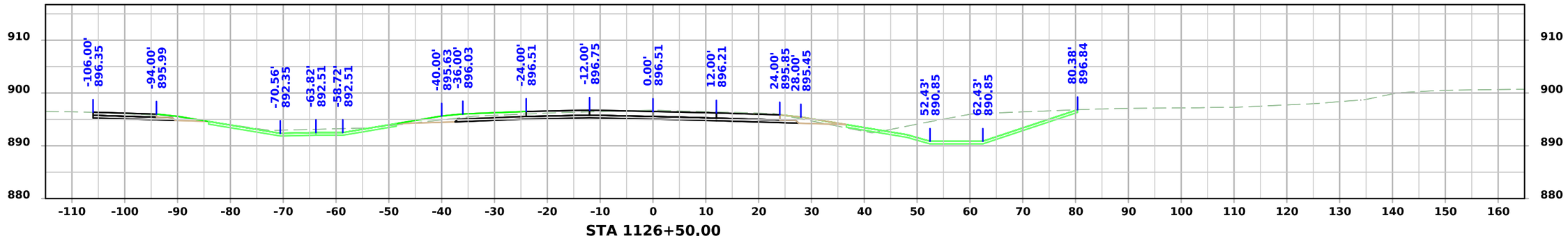




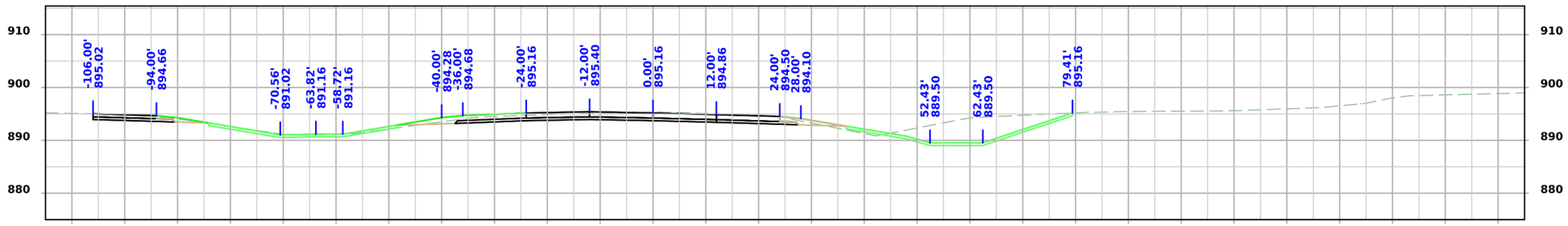
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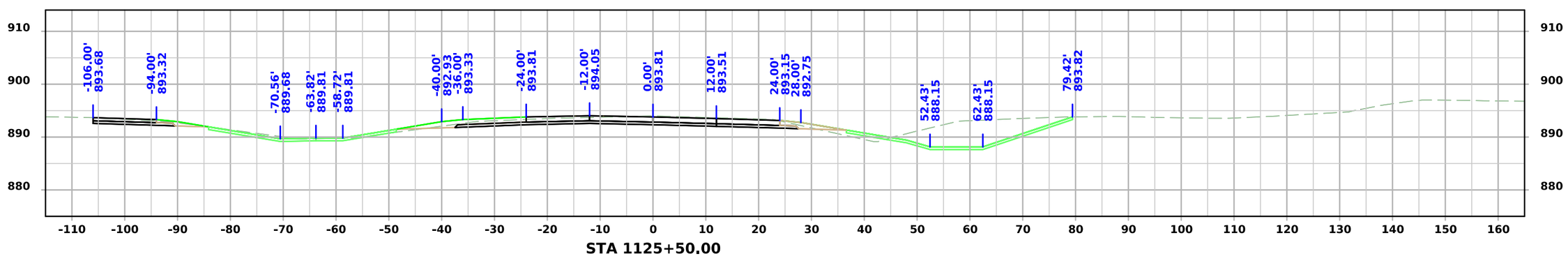
ML - I35 NB



STA 1126+50.00



STA 1126+00.00

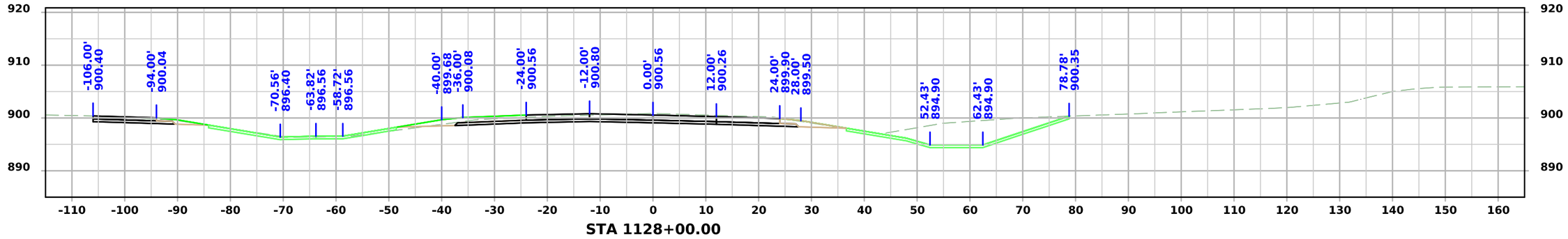


STA 1125+50.00

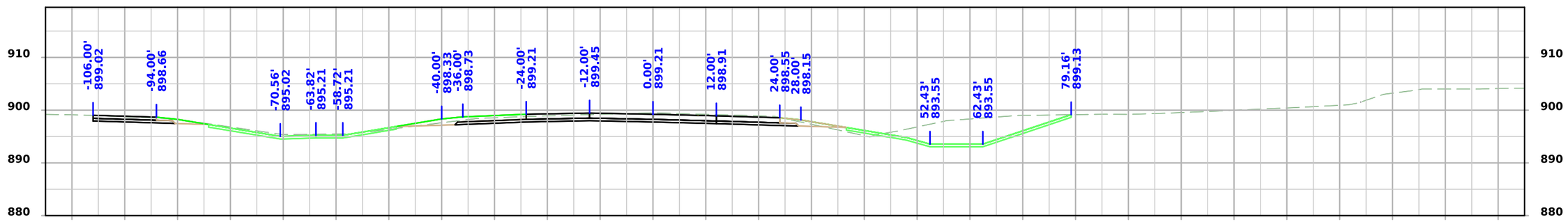
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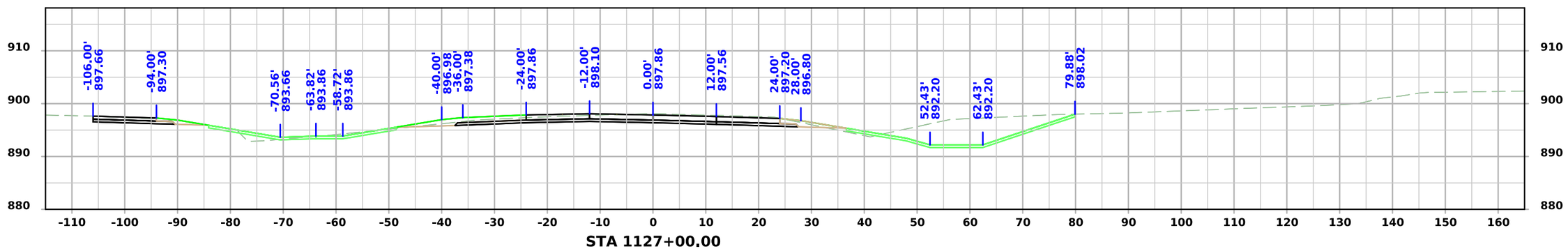
ML - I35 NB



STA 1128+00.00



STA 1127+50.00

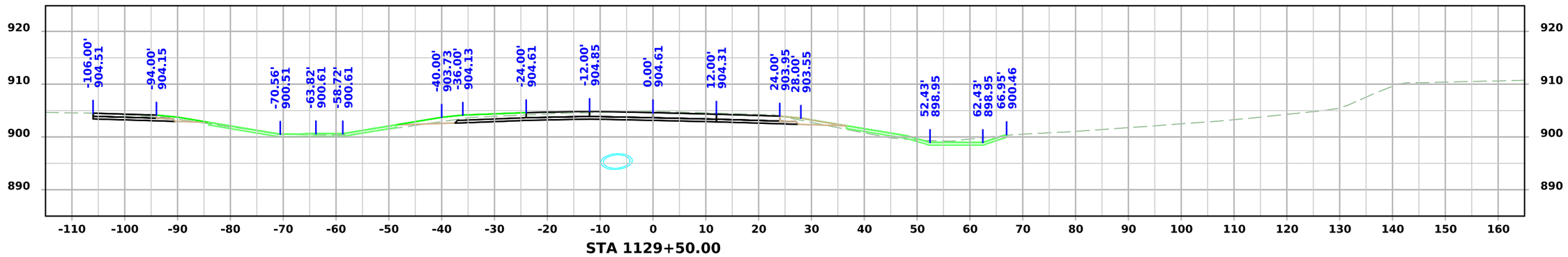


STA 1127+00.00

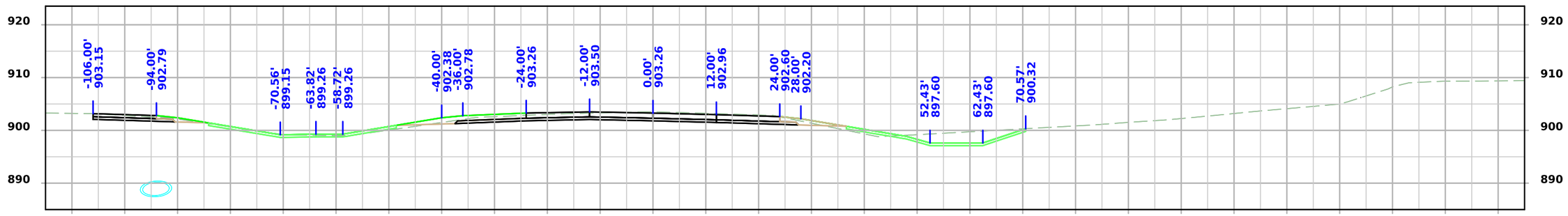
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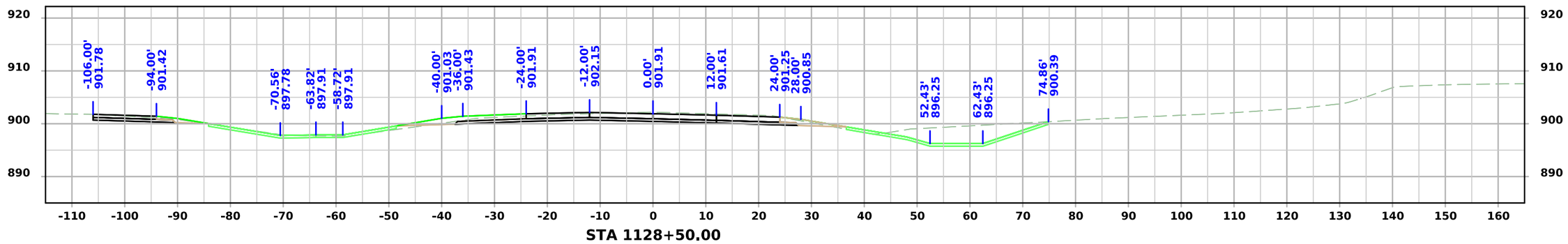
ML - I35 NB



STA 1129+50.00



STA 1129+00.00

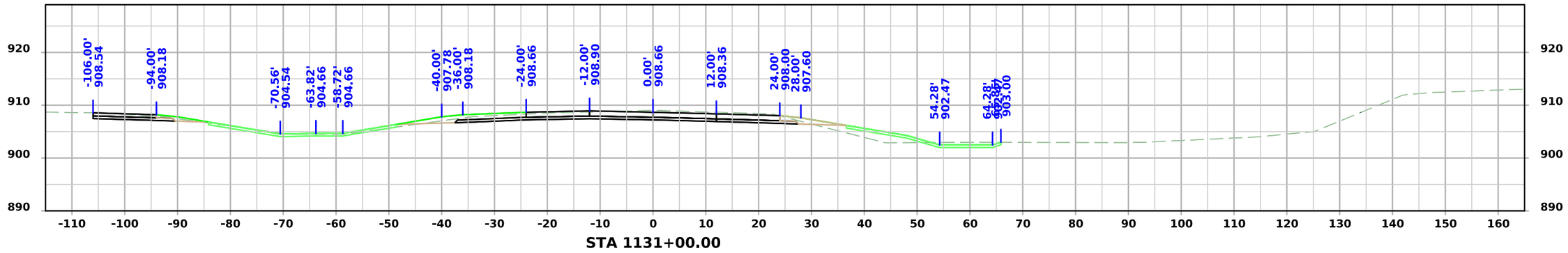


STA 1128+50.00

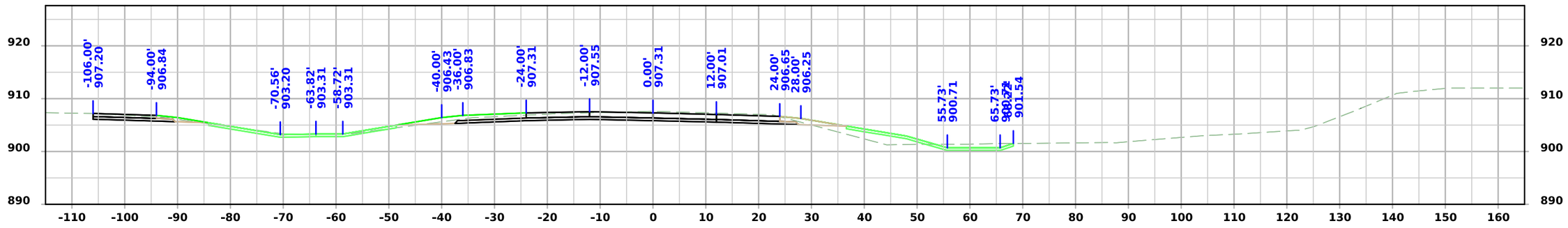
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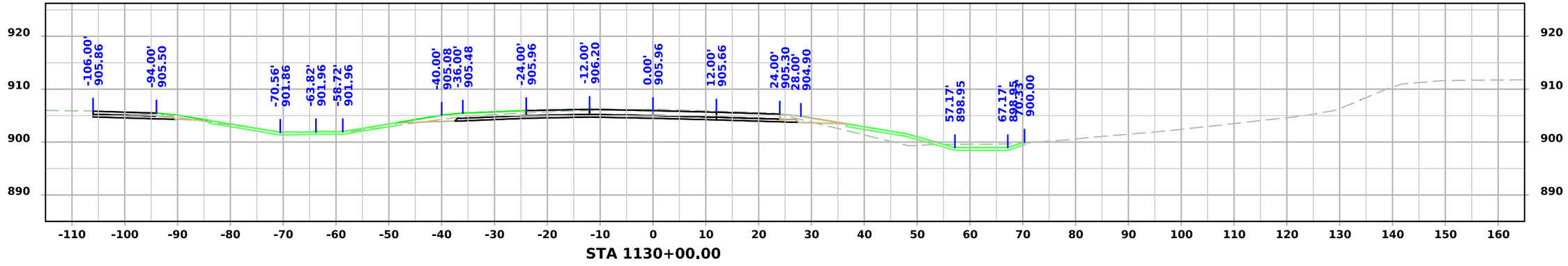
ML - I35 NB



STA 1131+00.00



STA 1130+50.00

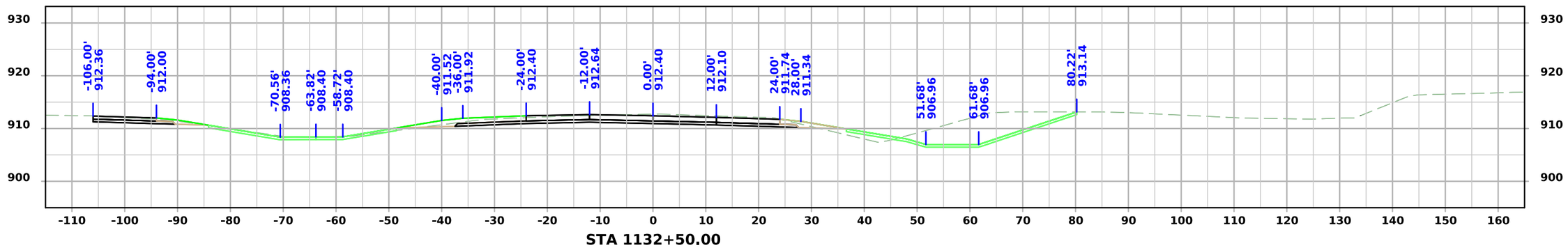


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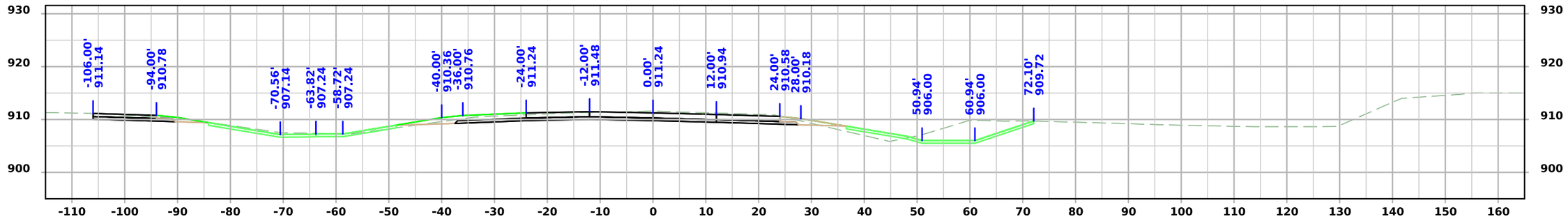
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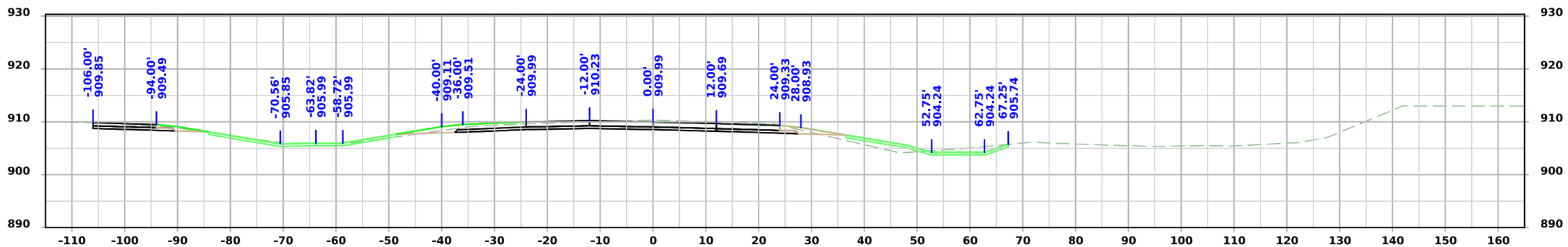
ML - I35 NB



STA 1132+50.00



STA 1132+00.00

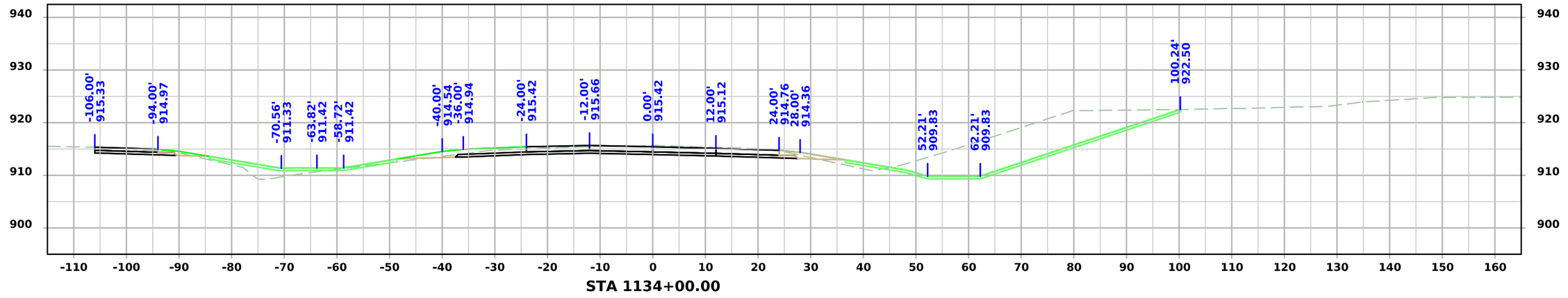


STA 1131+50.00

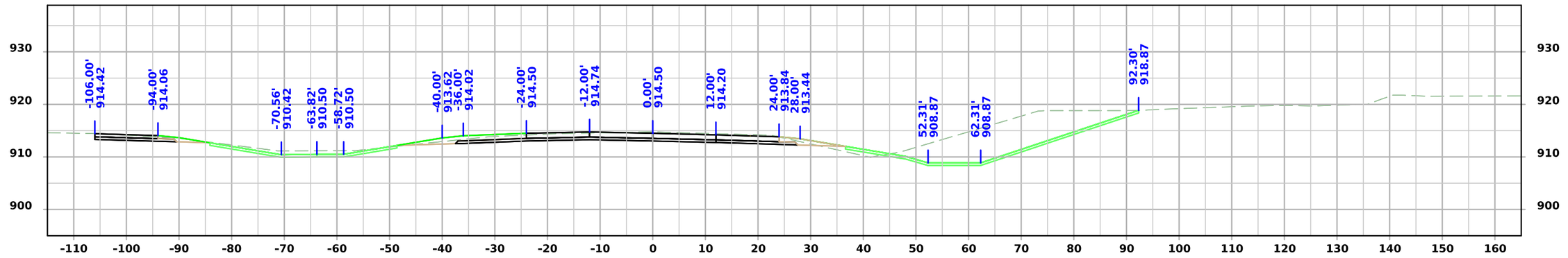
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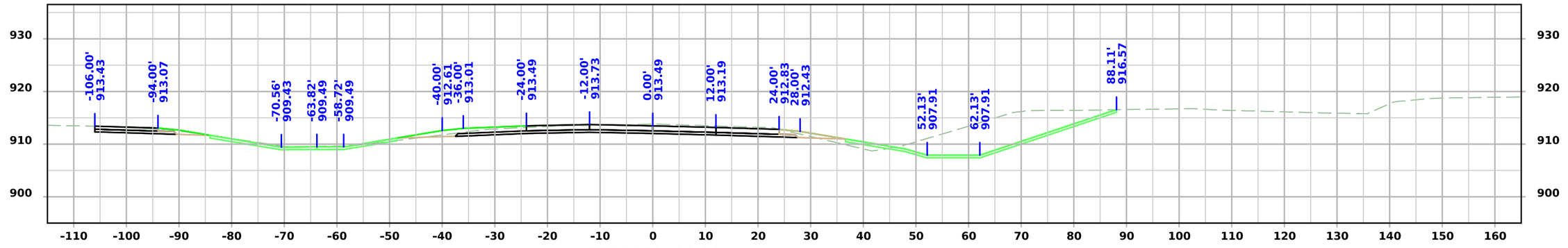
ML - I35 NB



STA 1134+00.00



STA 1133+50.00

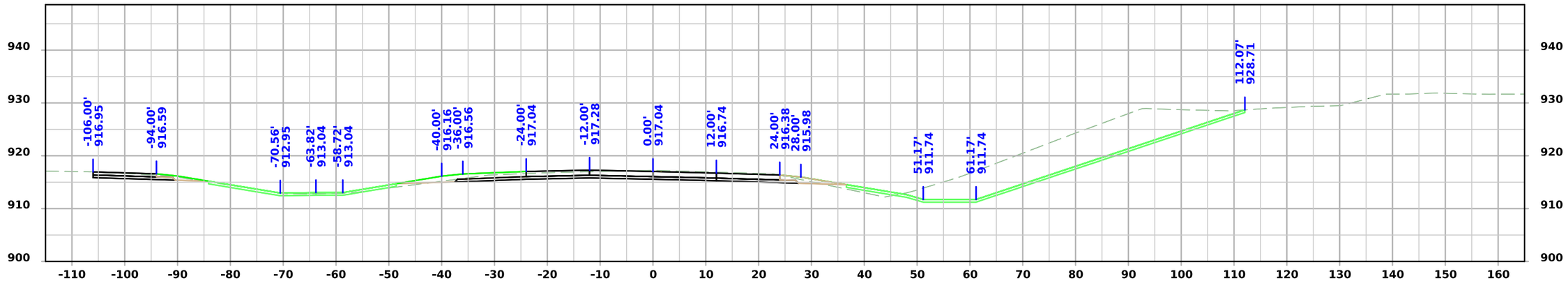


STA 1133+00.00

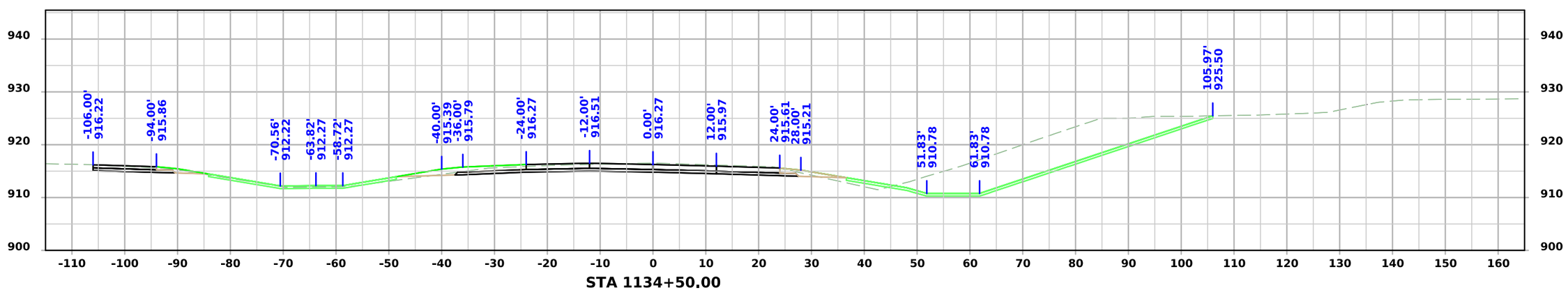
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.43

1:16:58 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1135+00.00

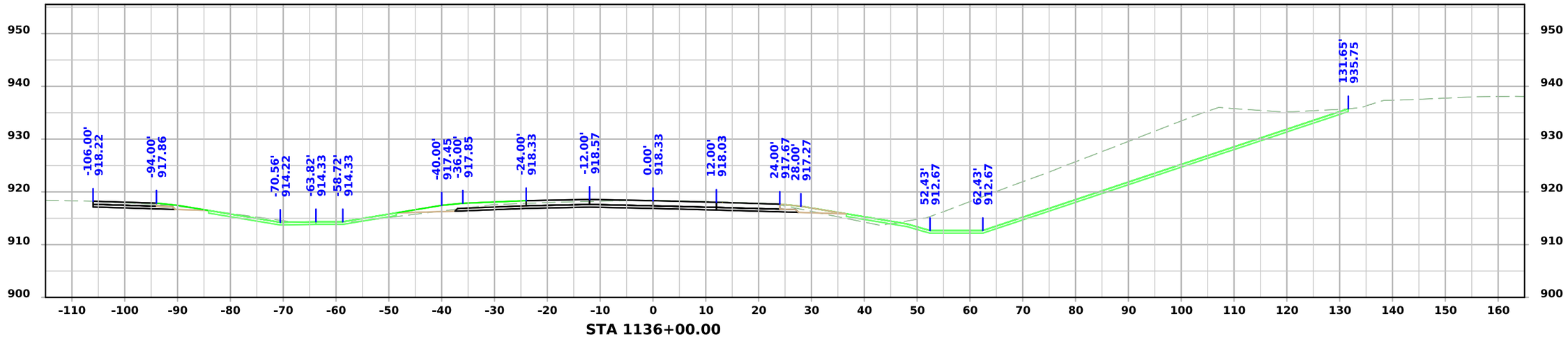


STA 1134+50.00

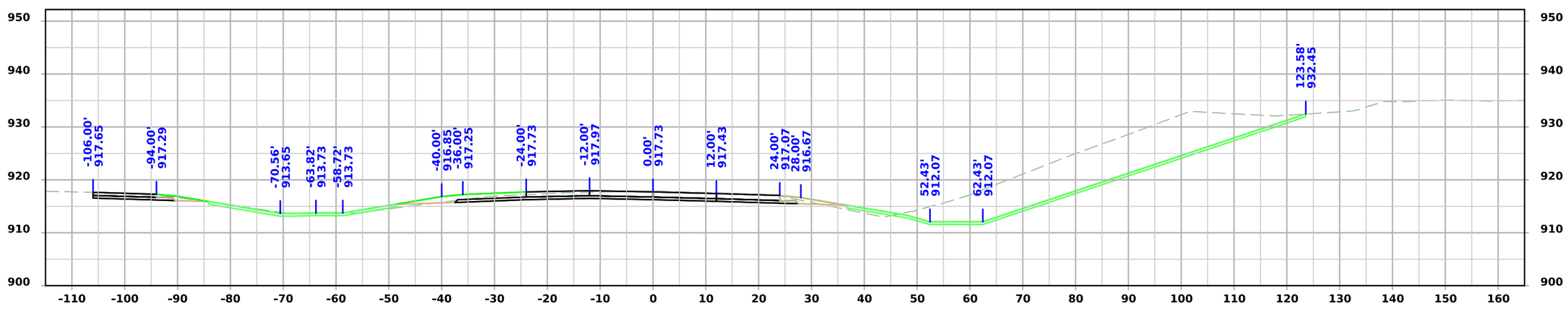
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.44

1:16:59 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1136+00.00

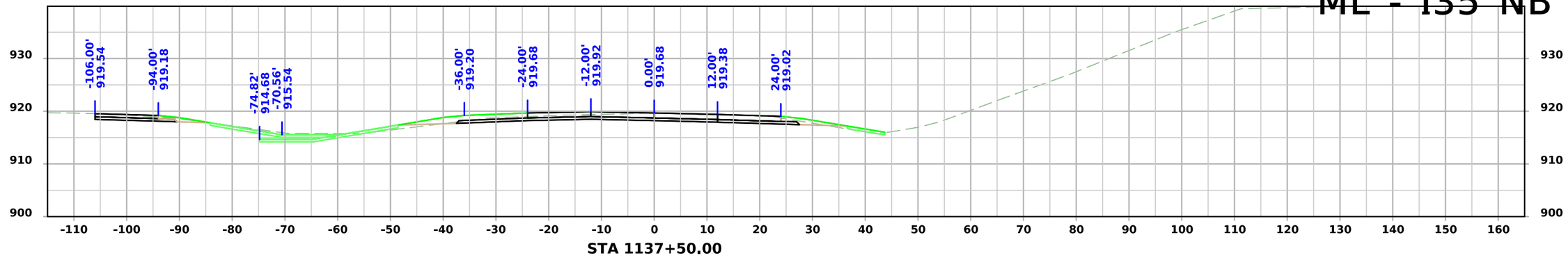


STA 1135+50.00

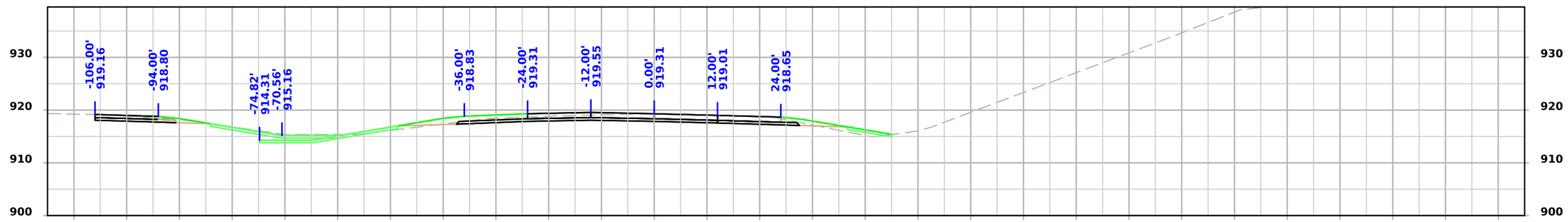
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.45

1:17:01 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

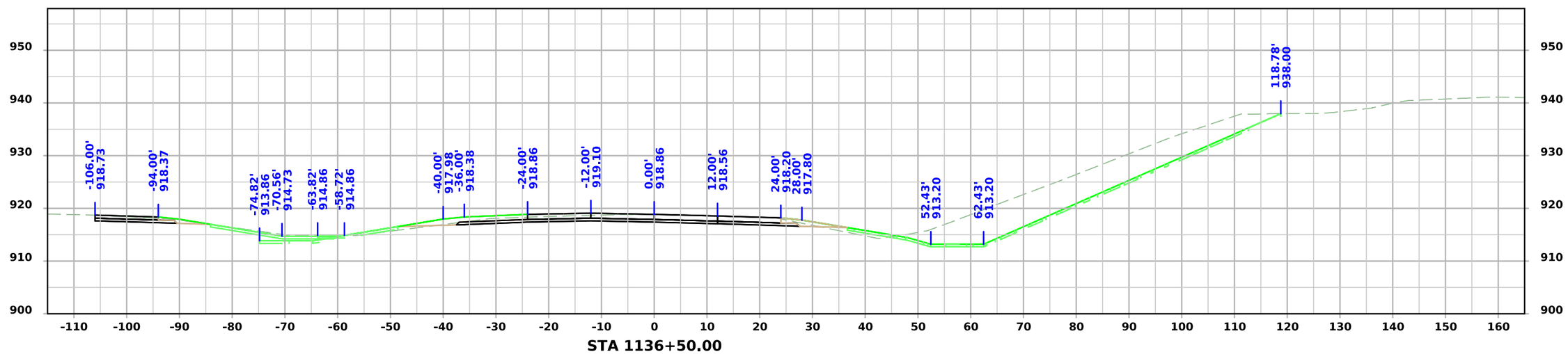
ML - I35 NB



STA 1137+50.00



STA 1137+00.00

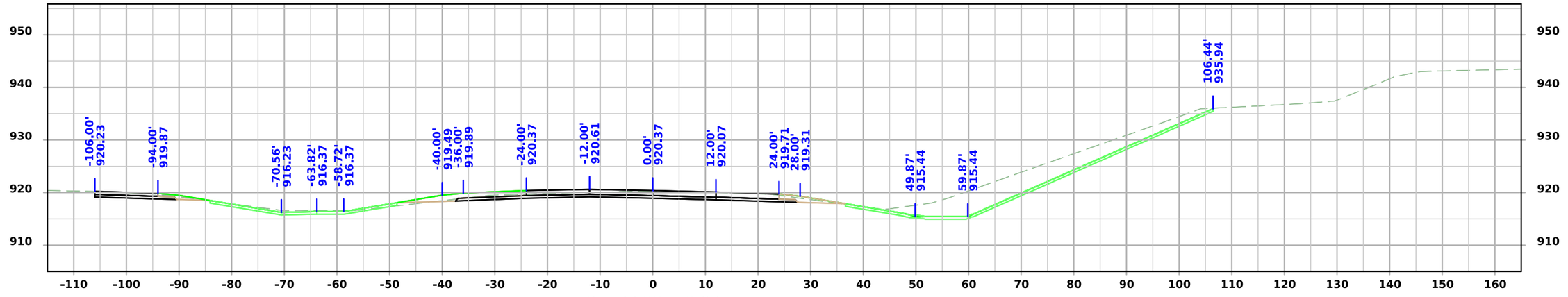


STA 1136+50.00

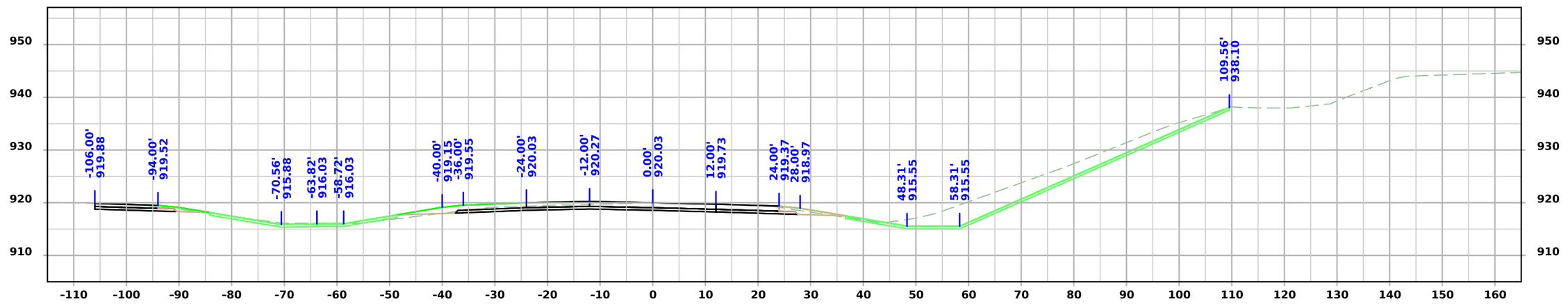
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.46

1:17:03 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1138+50.00

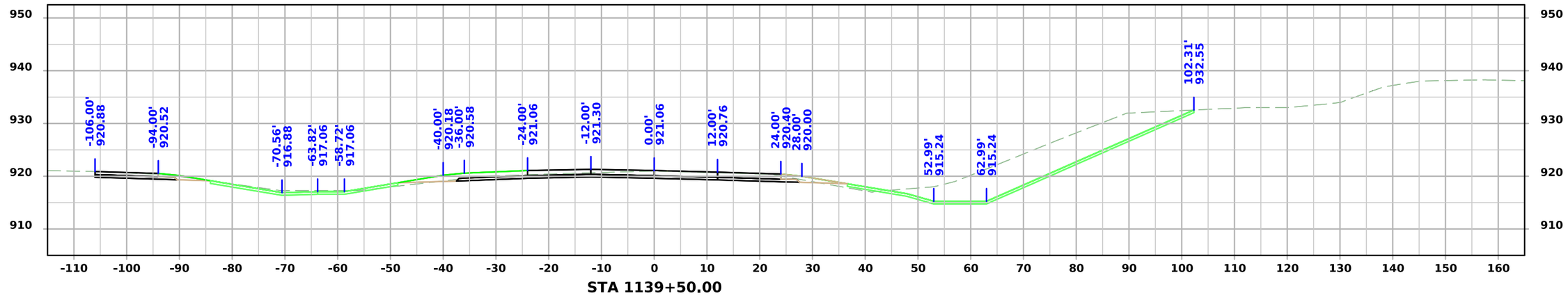


STA 1138+00.00

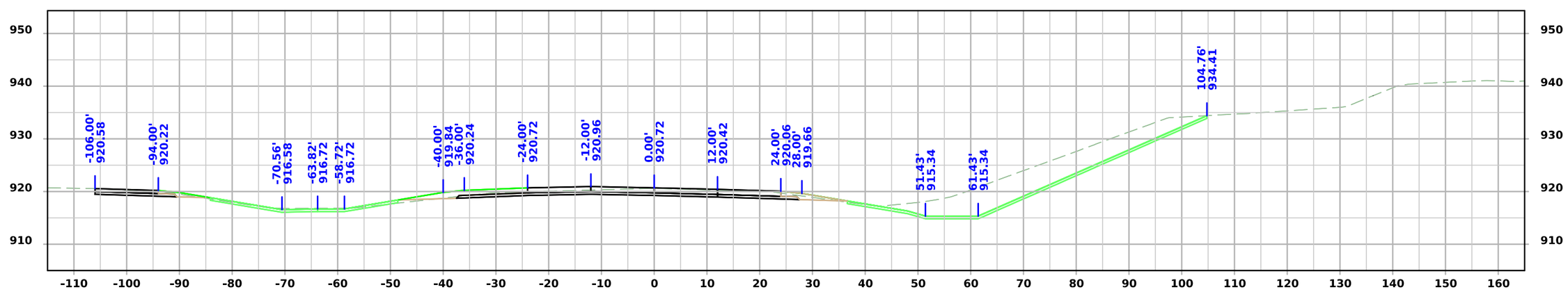
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.47

1:17:04 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1139+50.00

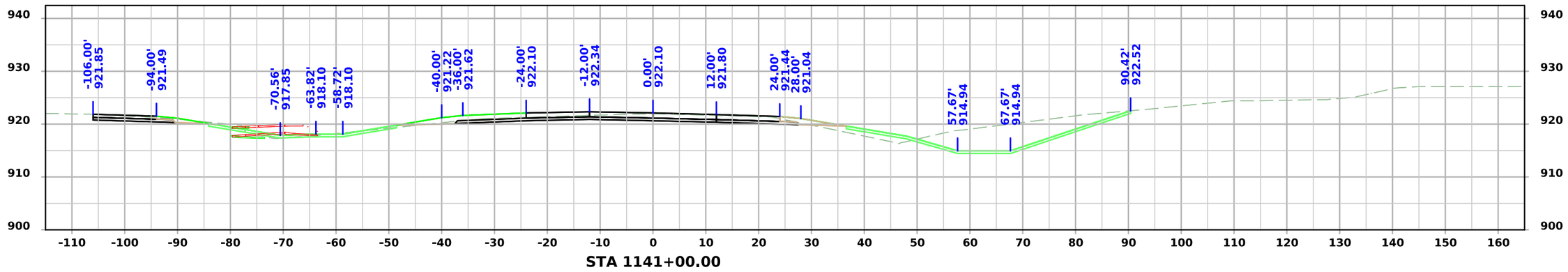


STA 1139+00.00

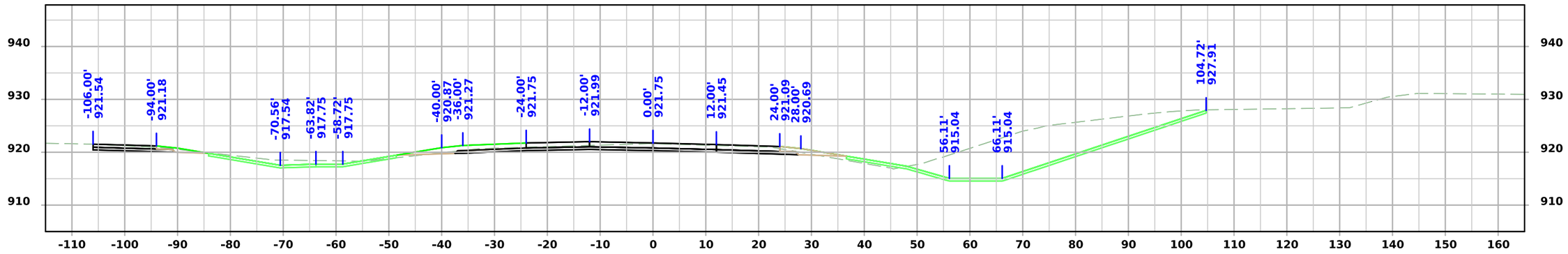
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.48

1:17:06 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

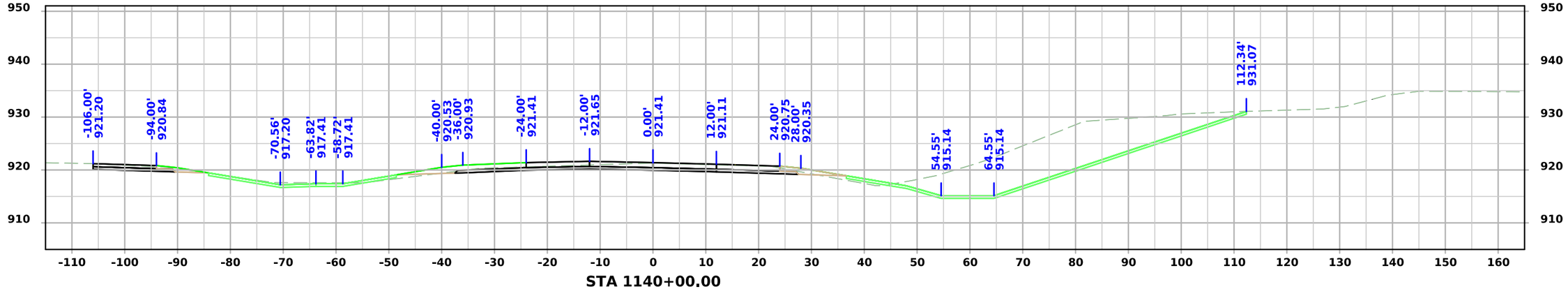
ML - I35 NB



STA 1141+00.00



STA 1140+50.00

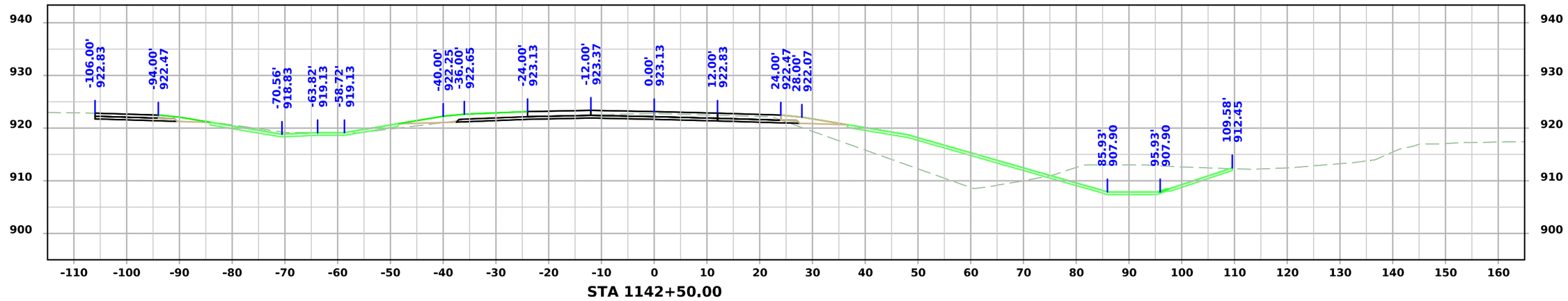


STA 1140+00.00

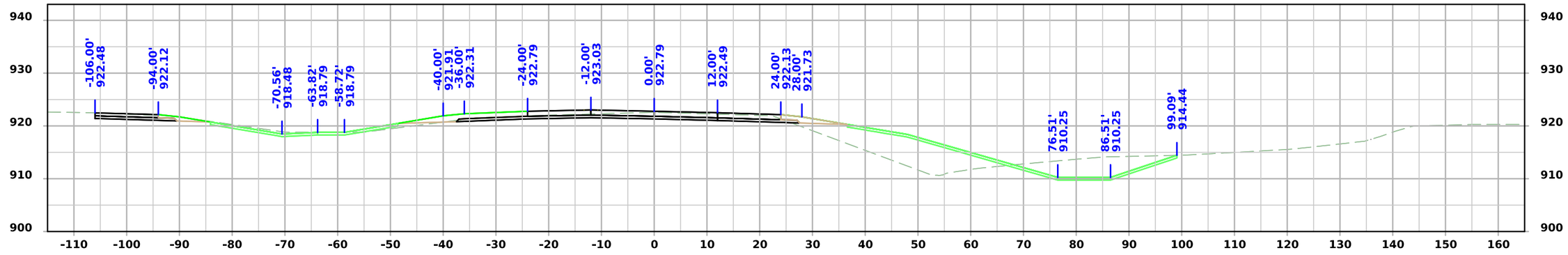
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.49

1:17:08 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

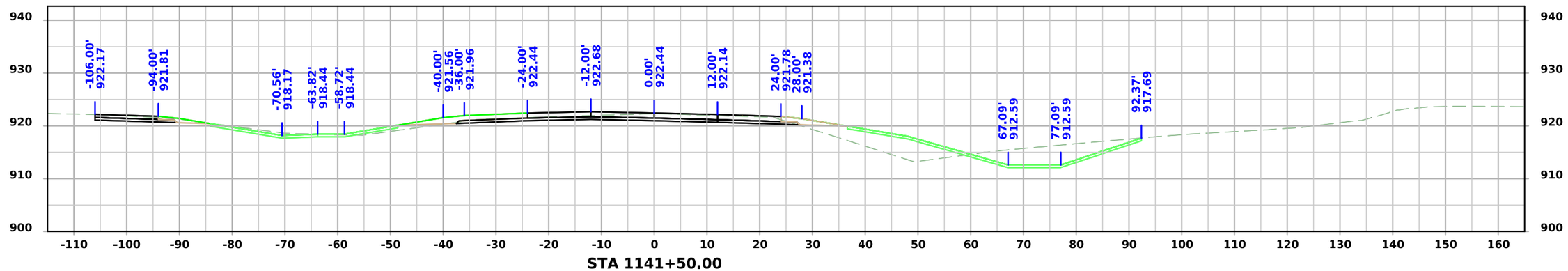
ML - I35 NB



STA 1142+50.00



STA 1142+00.00

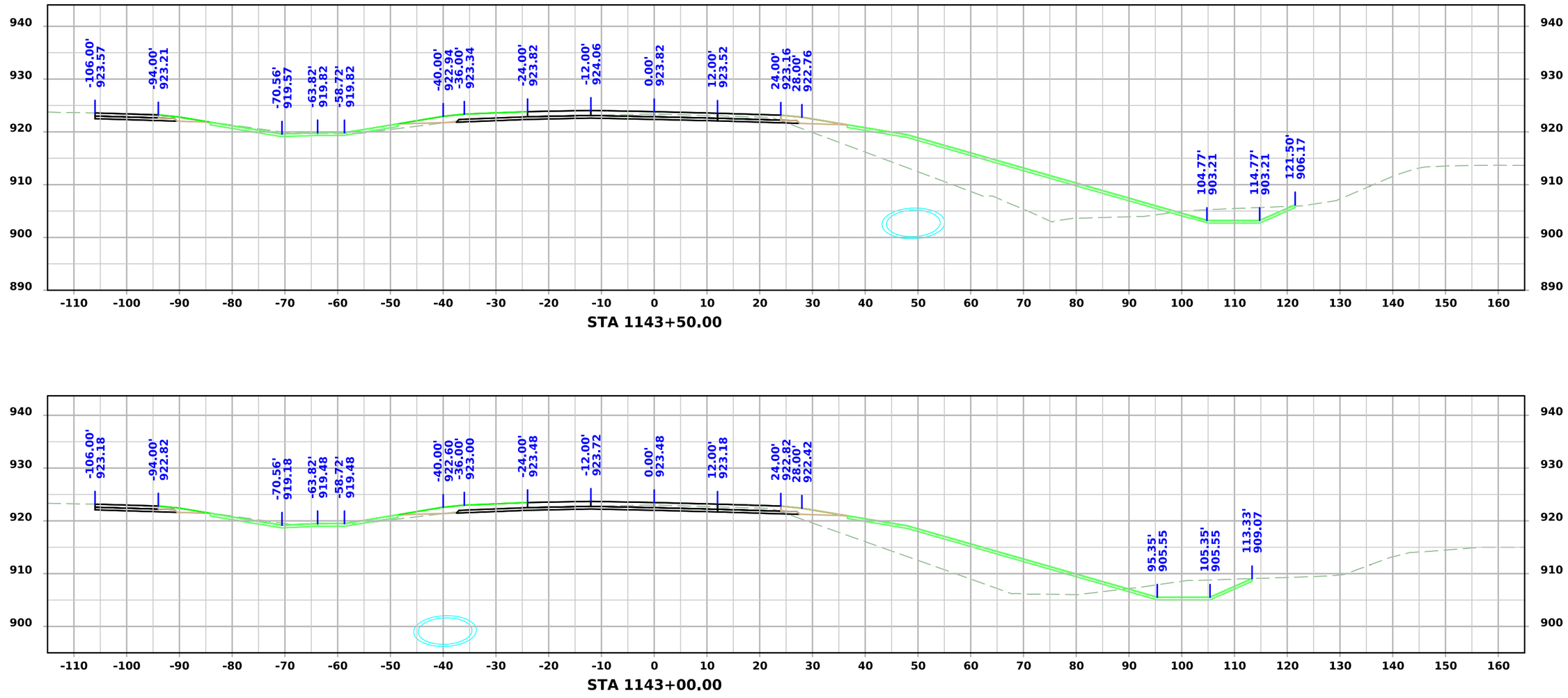


STA 1141+50.00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.50

1:17:10 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

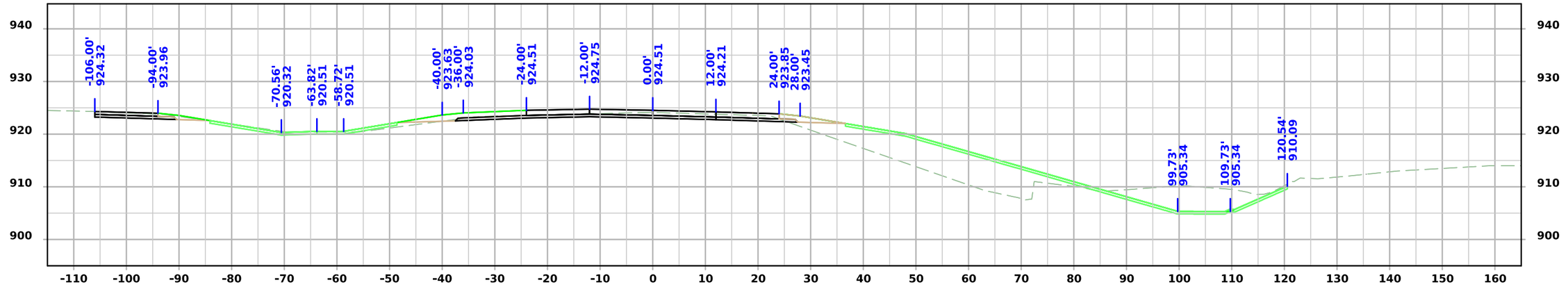
ML - I35 NB



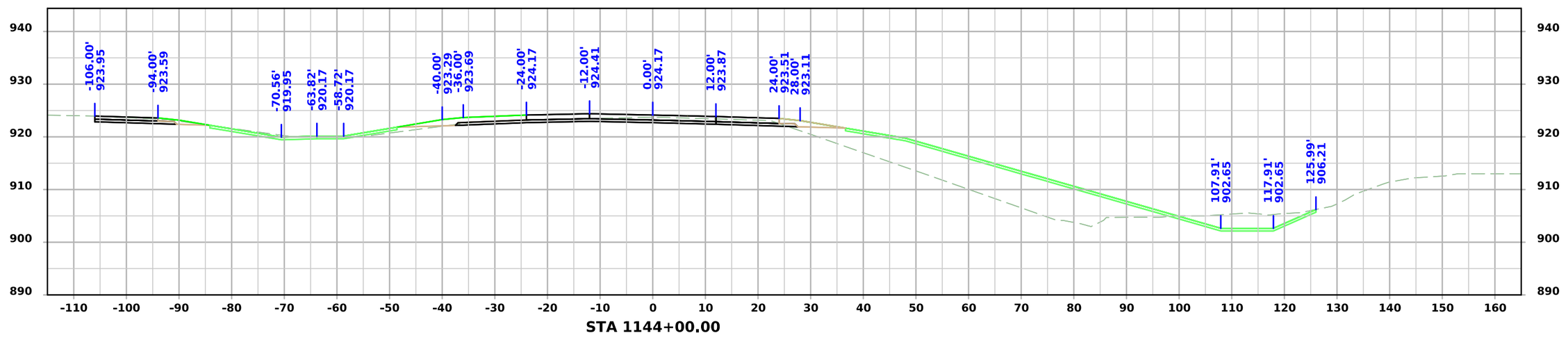
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1:17:11 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1144+50.00

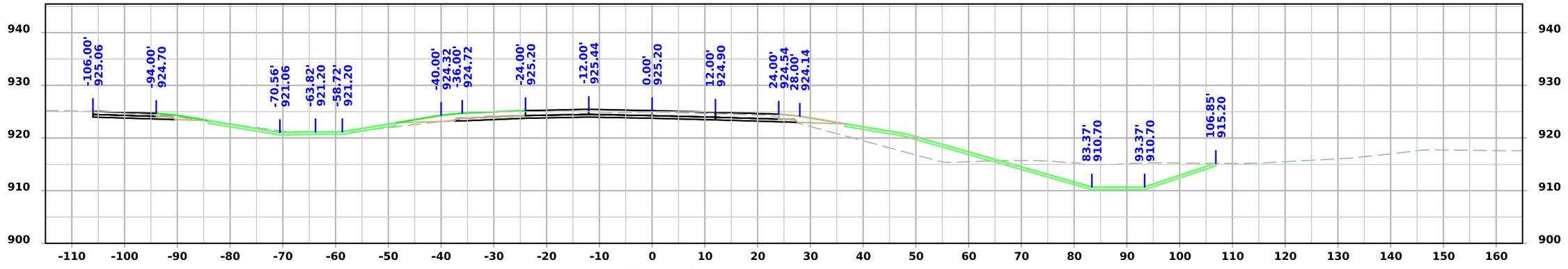


STA 1144+00.00

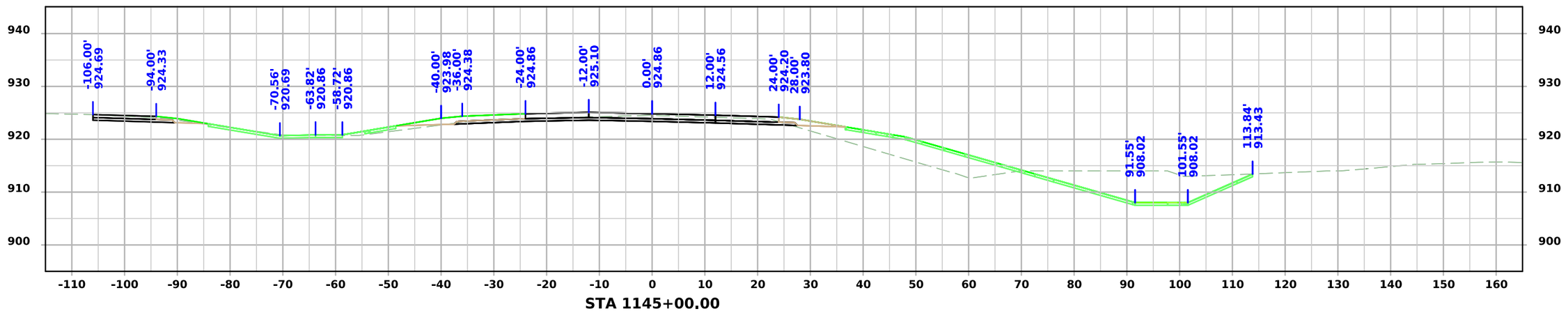
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.52

1:17:13 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1145+50.00

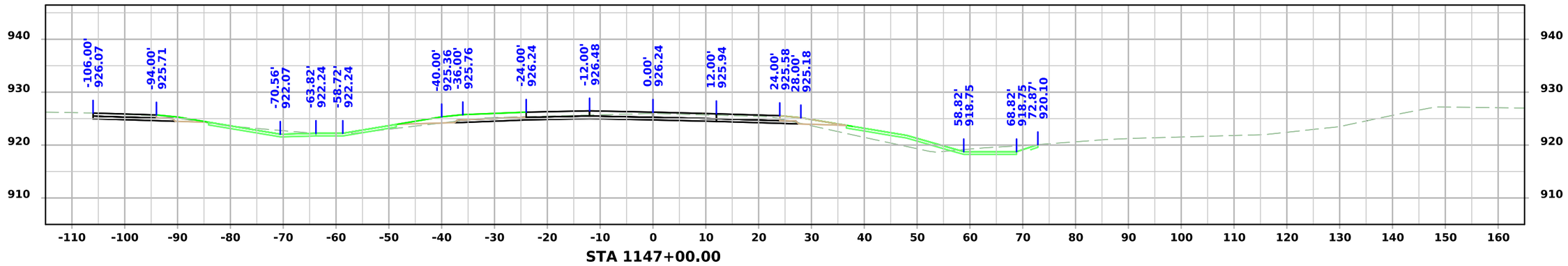


STA 1145+00.00

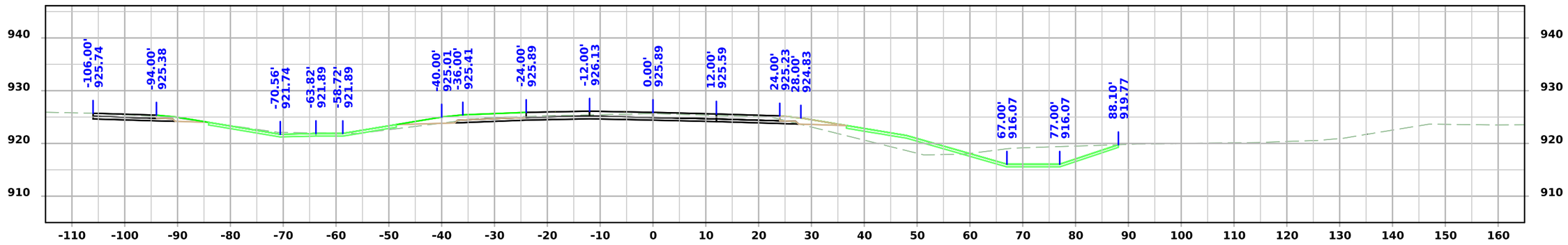
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.53

1:17:15 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

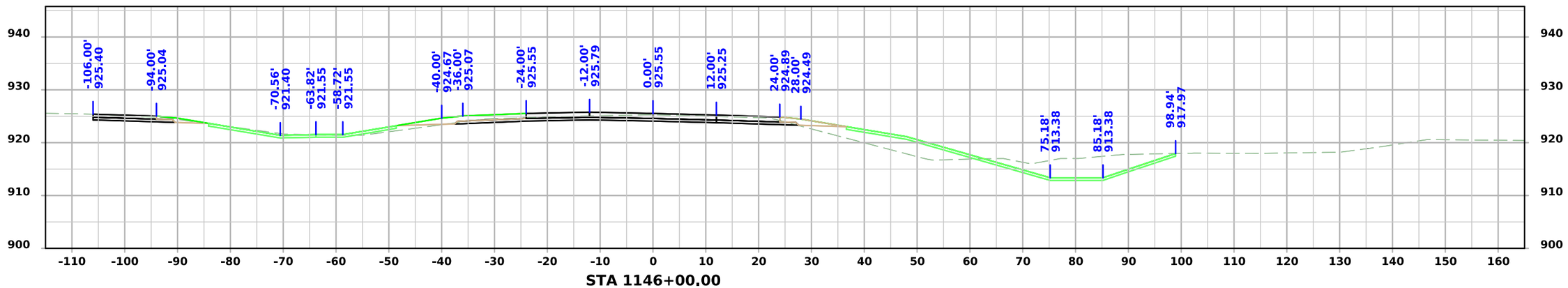
ML - I35 NB



STA 1147+00.00



STA 1146+50.00

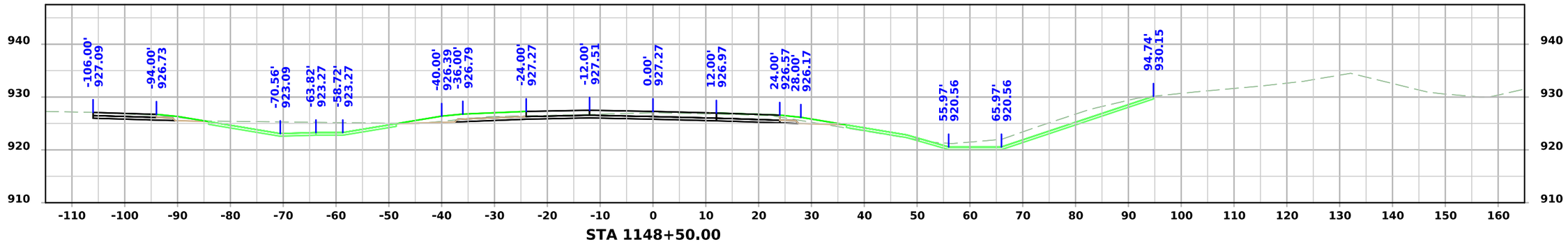


STA 1146+00.00

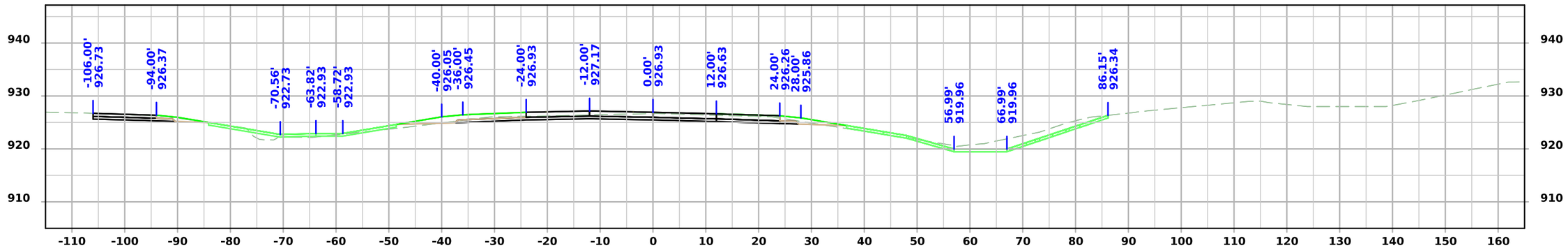
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1:17:17 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

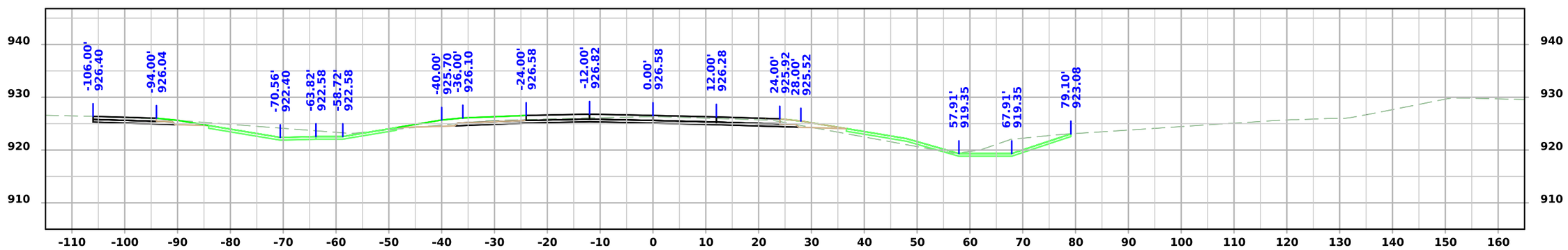
ML - I35 NB



STA 1148+50.00



STA 1148+00.00

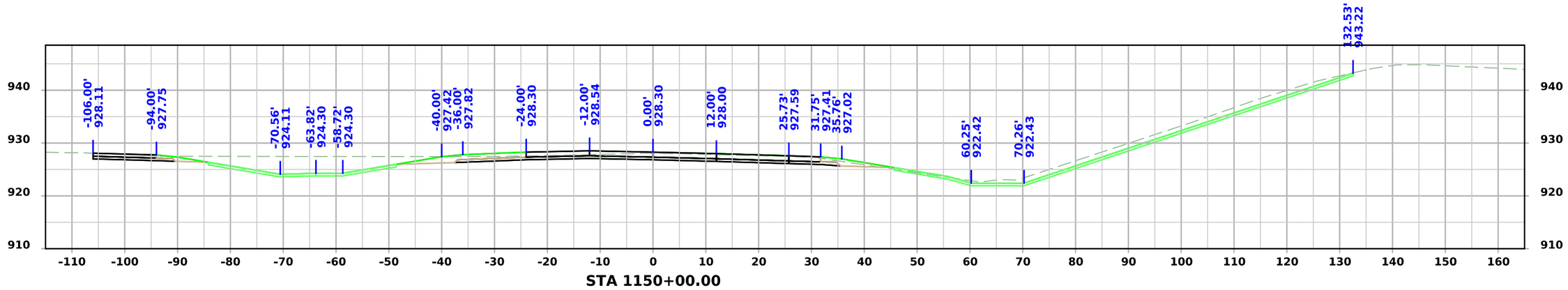


STA 1147+50.00

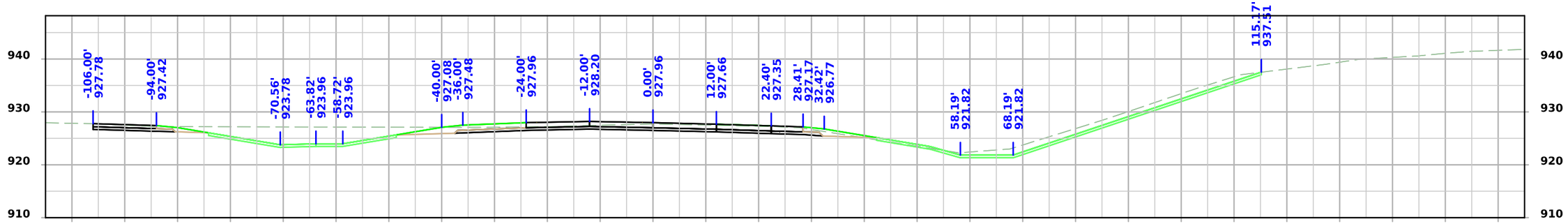
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.55

4:50:24 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

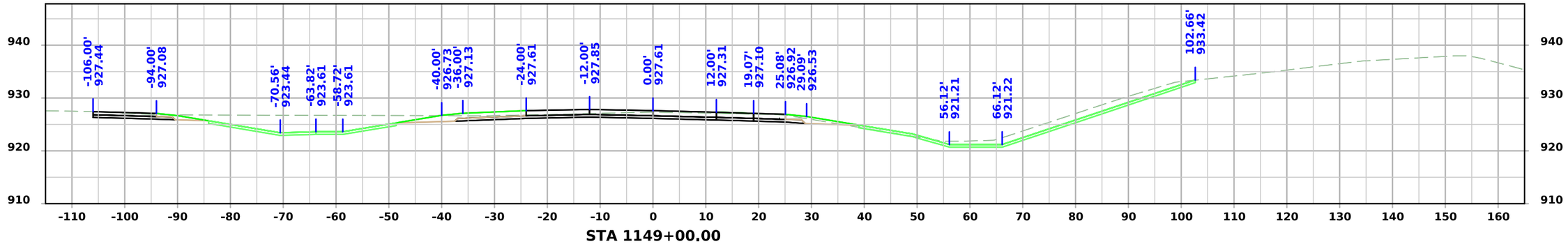
ML - I35 NB



STA 1150+00.00



STA 1149+50.00

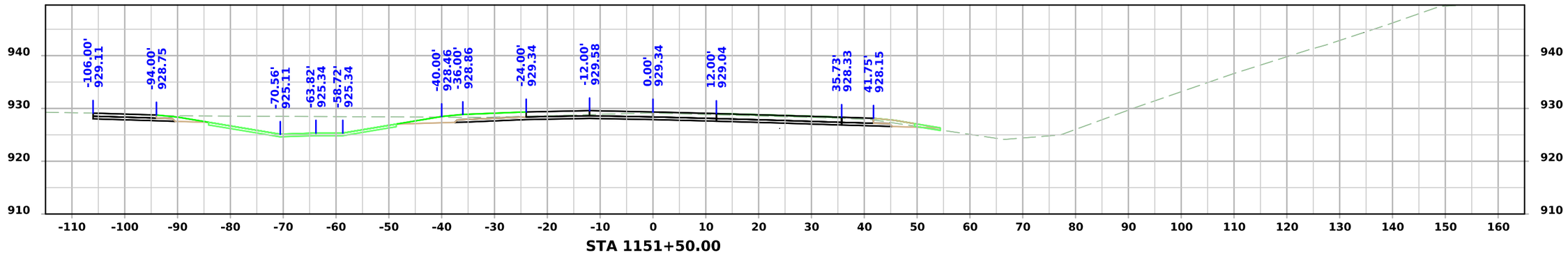


STA 1149+00.00

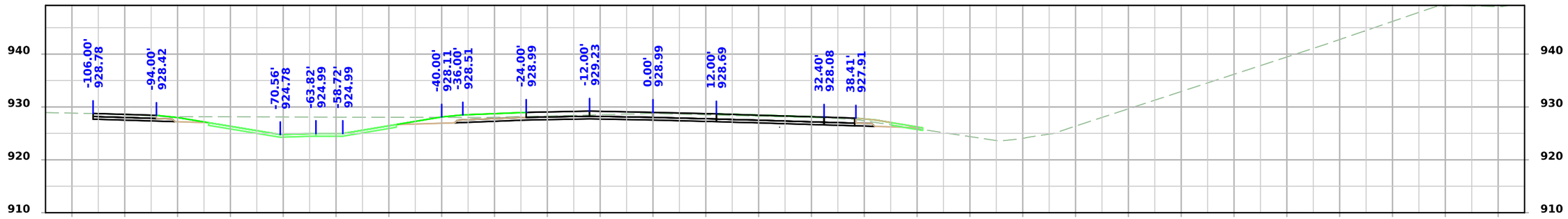
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.56

4:50:27 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

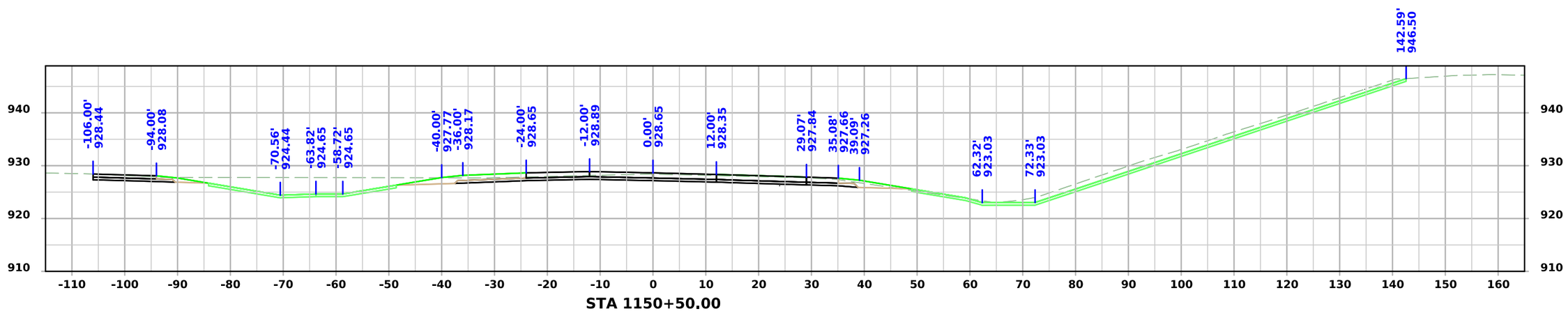
ML - I35 NB



STA 1151+50.00



STA 1151+00.00

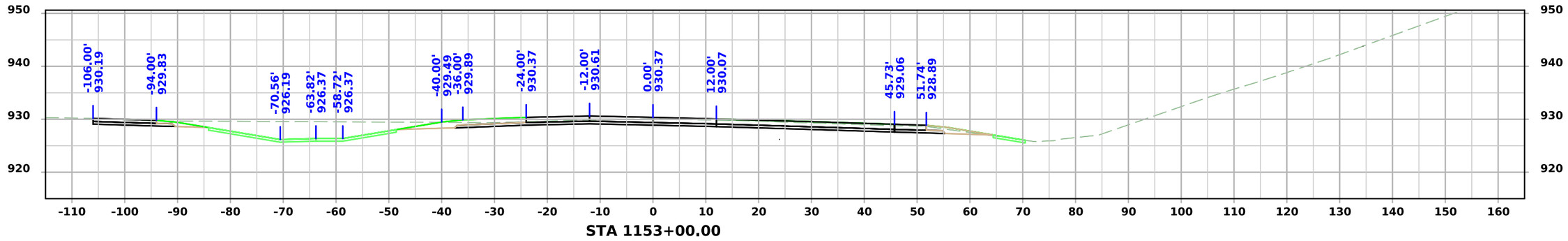


STA 1150+50.00

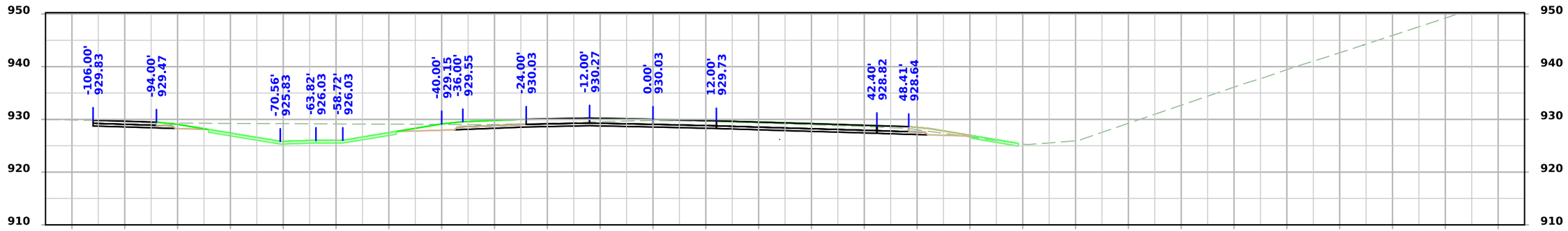
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.57

4:50:29 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

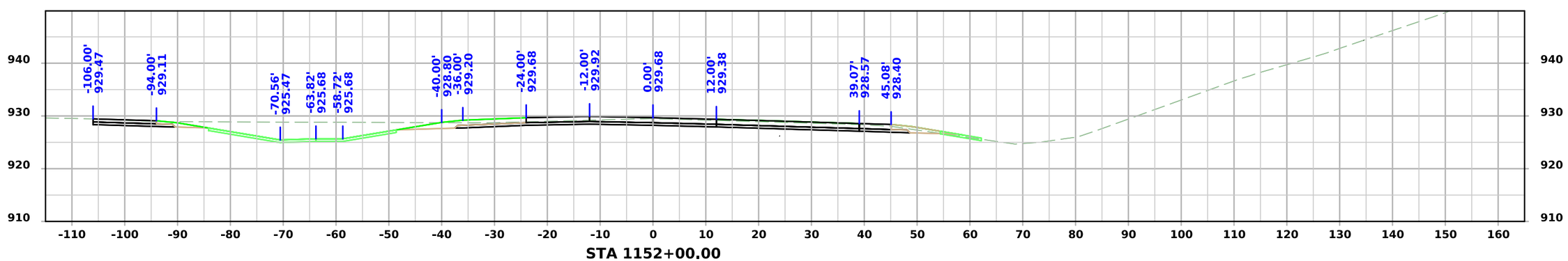
ML - I35 NB



STA 1153+00.00



STA 1152+50.00

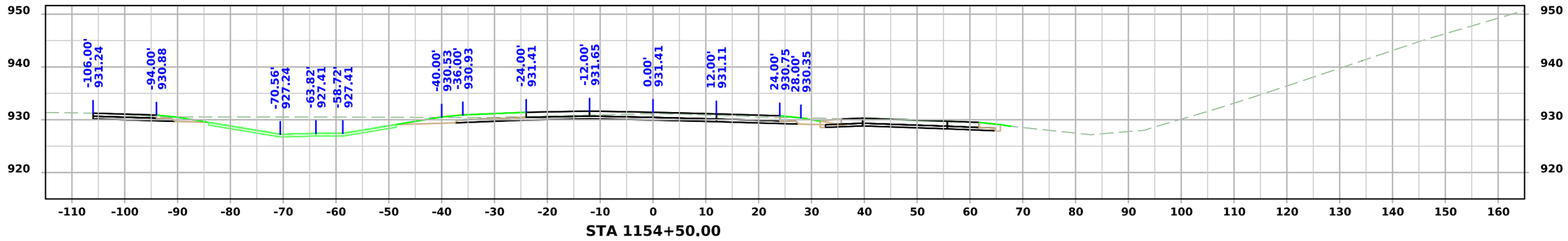


STA 1152+00.00

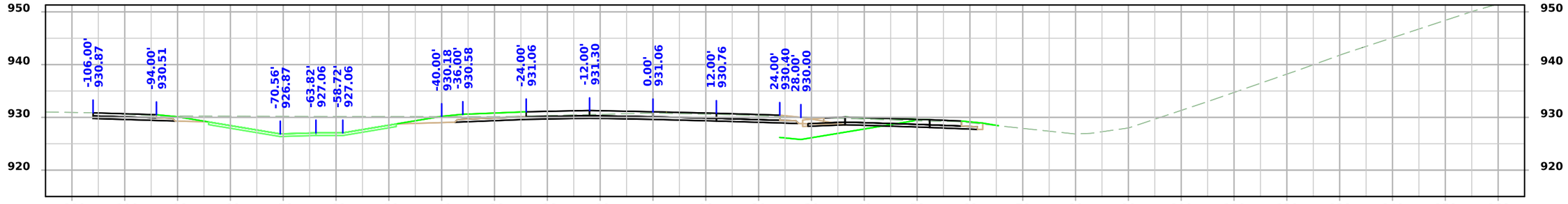
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4:50:30 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

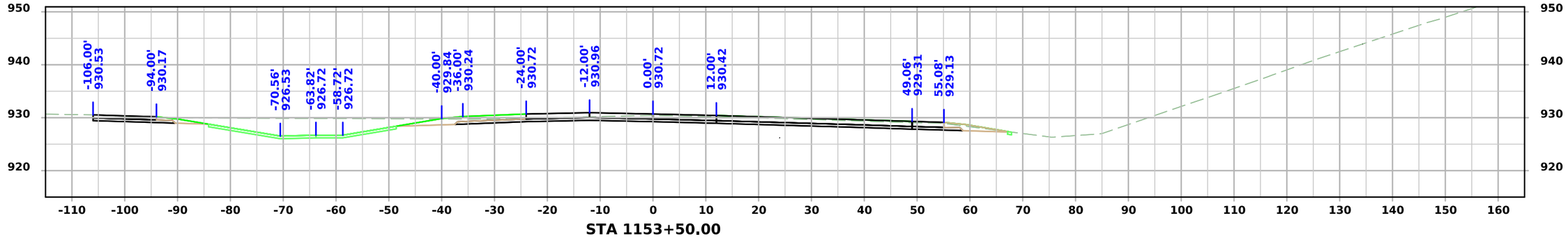
ML - I35 NB



STA 1154+50.00



STA 1154+00.00

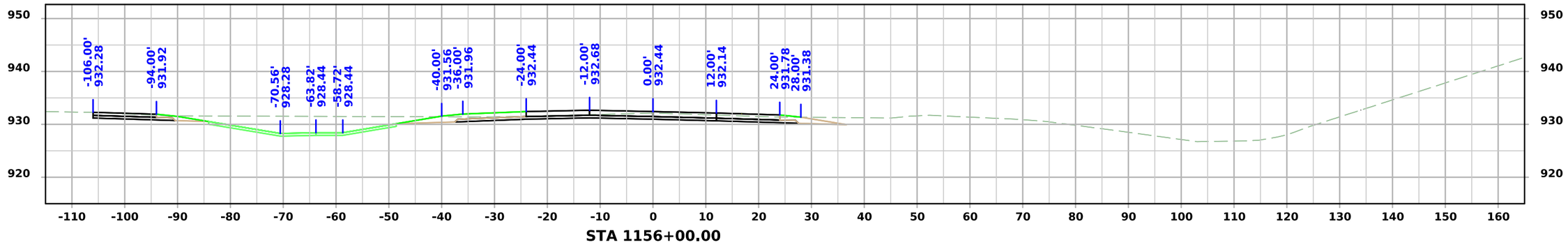


STA 1153+50.00

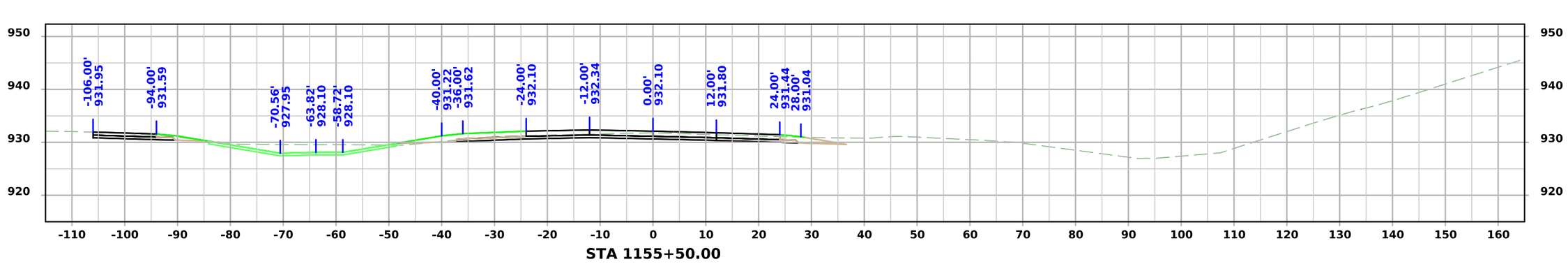
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.59

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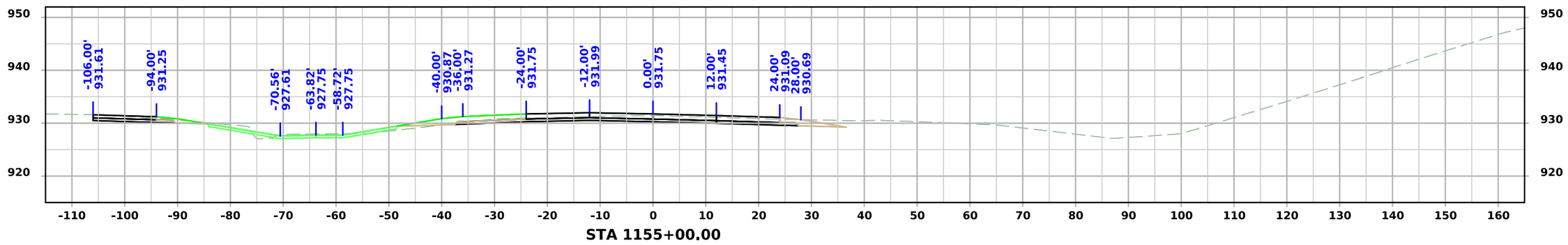
ML - I35 NB



STA 1156+00.00



STA 1155+50.00

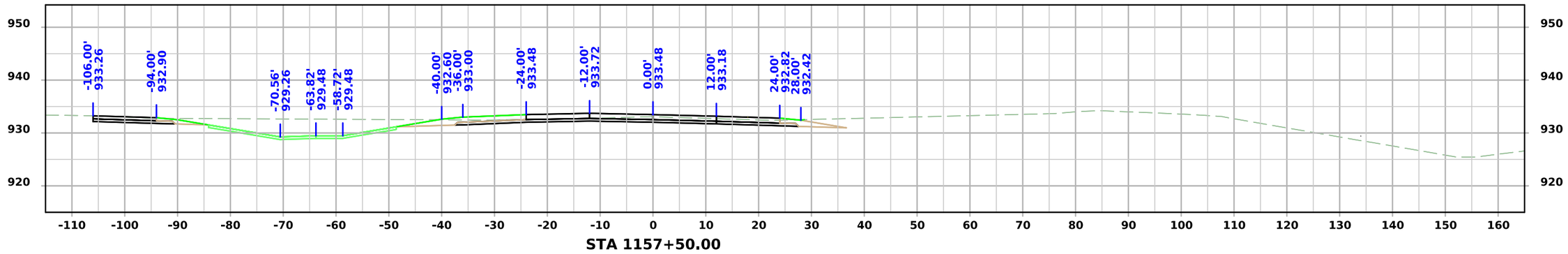


STA 1155+00.00

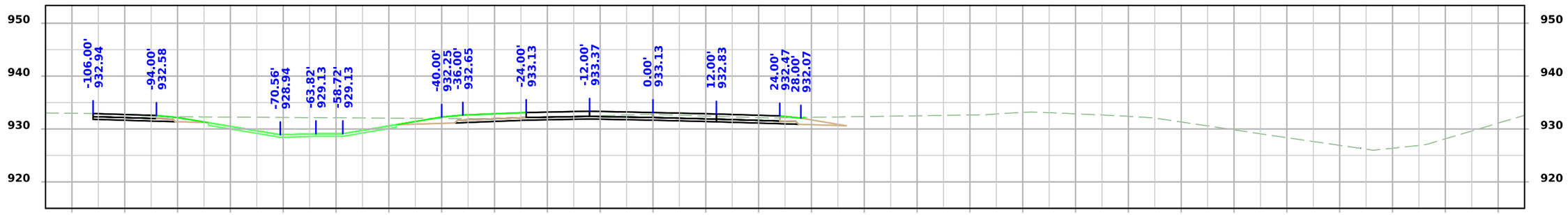
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4:50:34 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

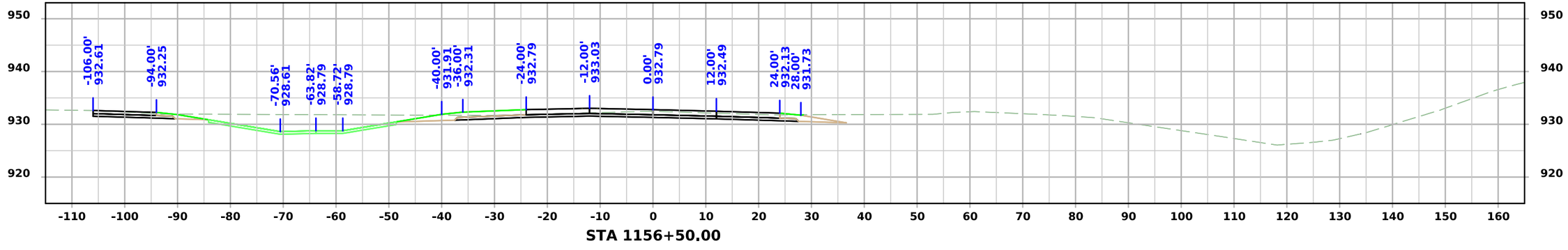
ML - I35 NB



STA 1157+50.00



STA 1157+00.00

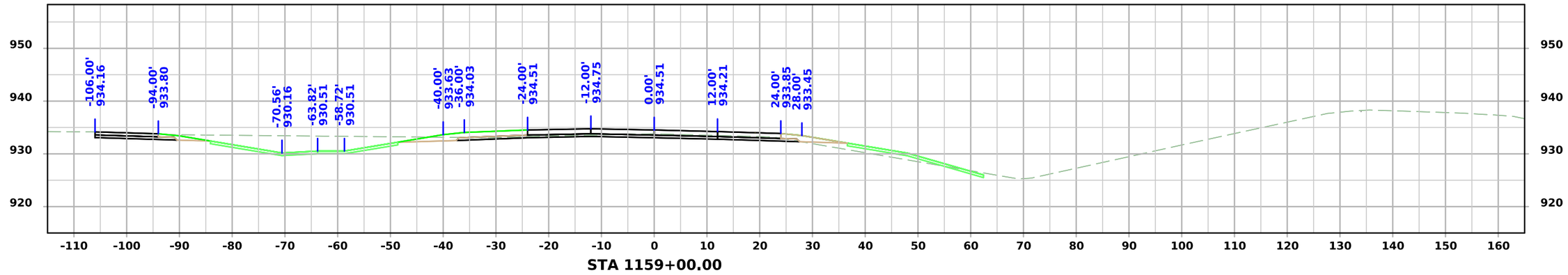


STA 1156+50.00

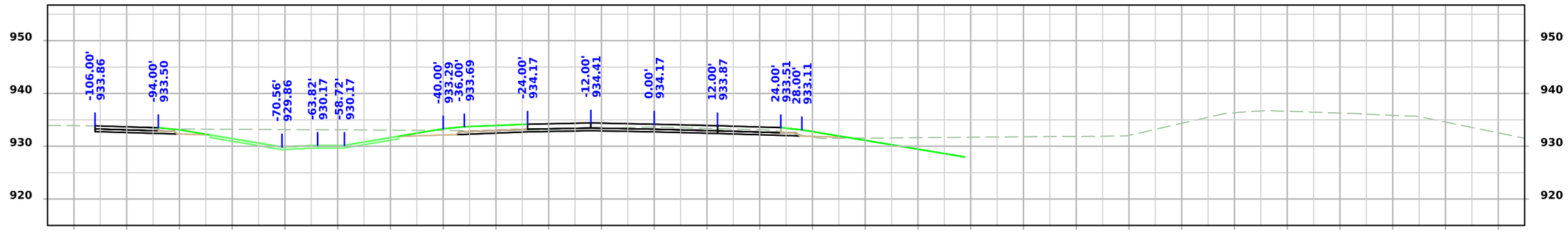
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.61

1:17:30 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

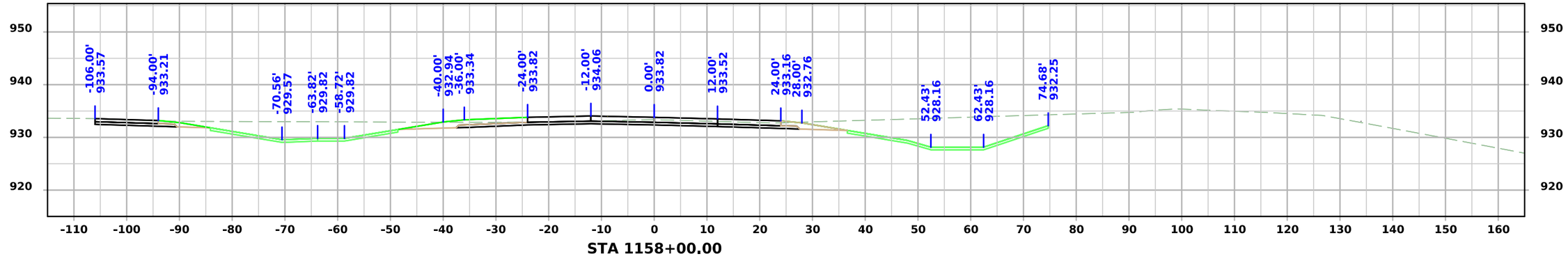
ML - I35 NB



STA 1159+00.00



STA 1158+50.00

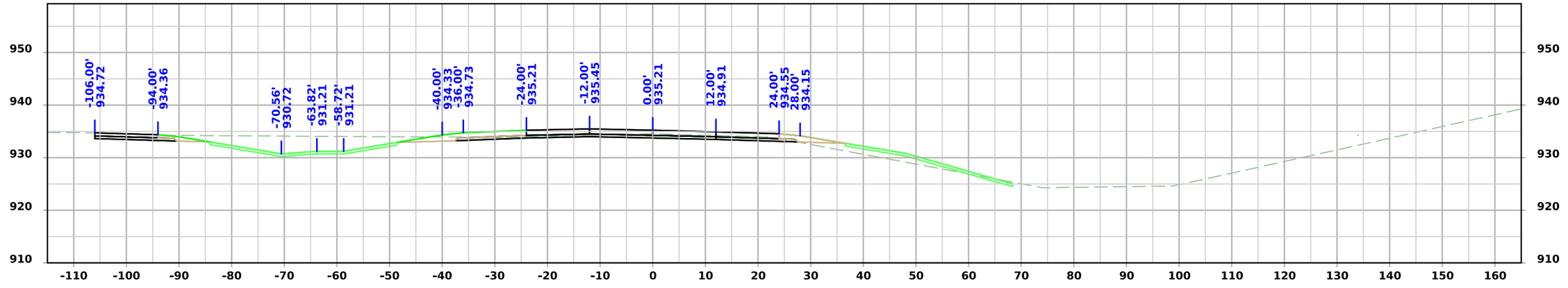


STA 1158+00.00

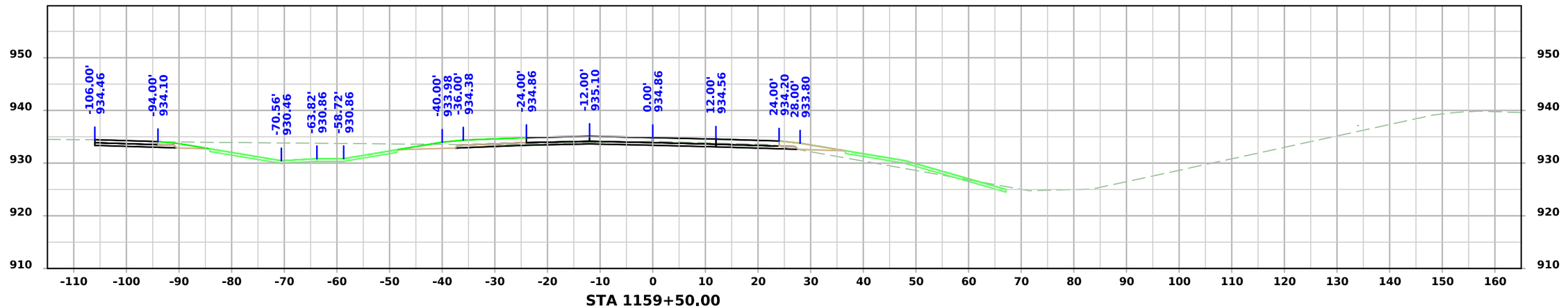
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1:17:31 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1160+00.00

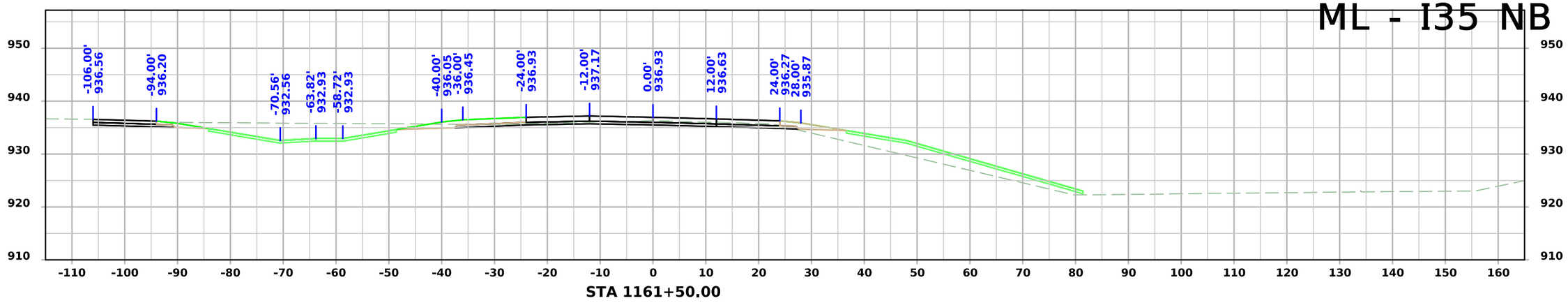


STA 1159+50.00

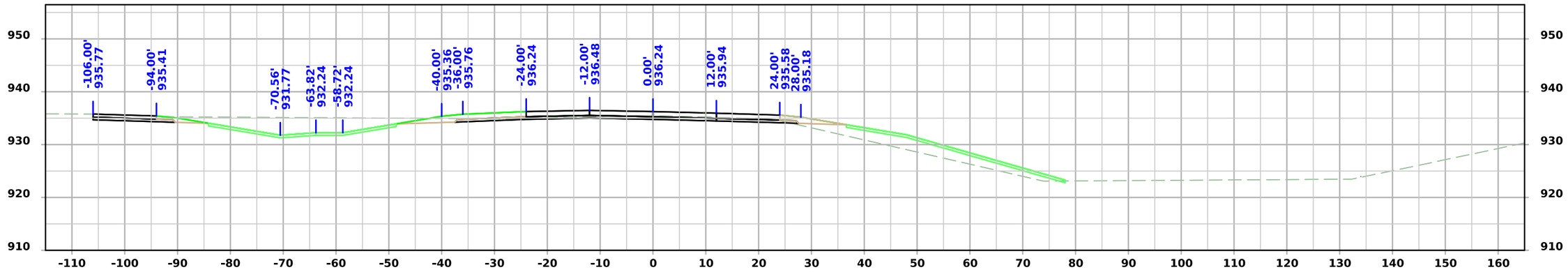
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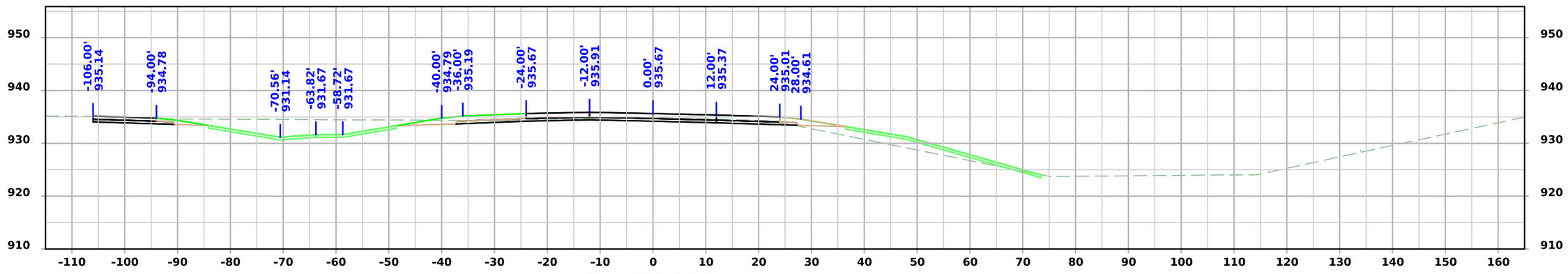
ML - I35 NB



STA 1161+50.00



STA 1161+00.00

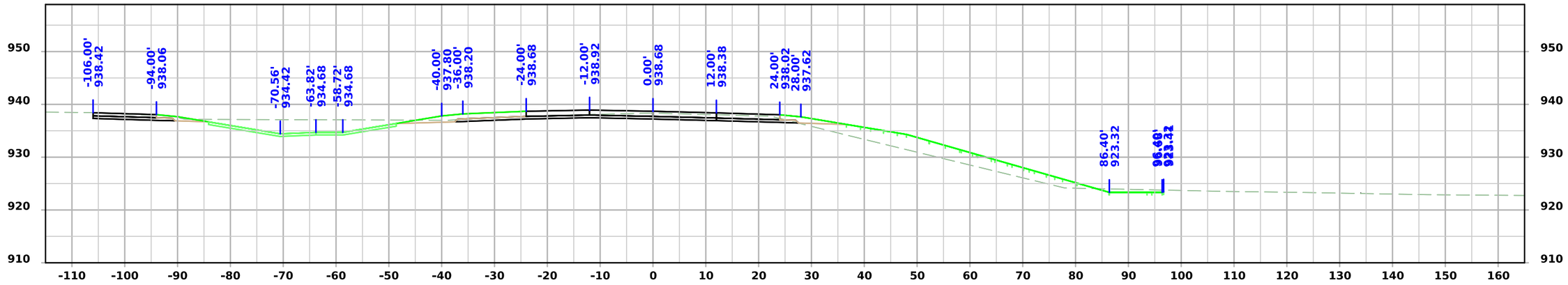


STA 1160+50.00

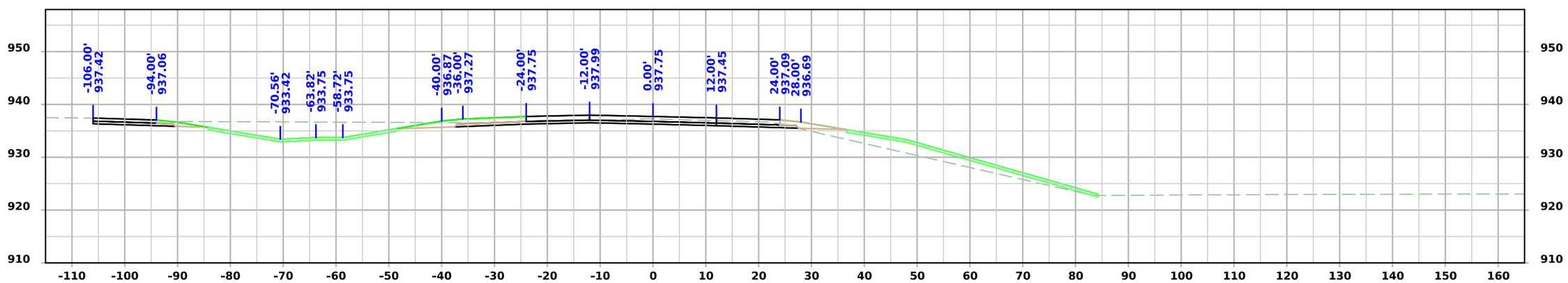
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1:17:35 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1162+50.00

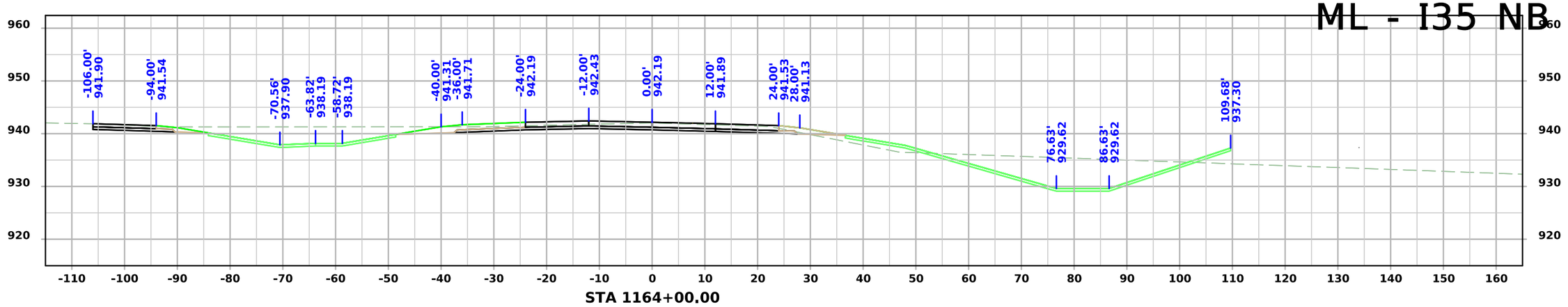


STA 1162+00.00

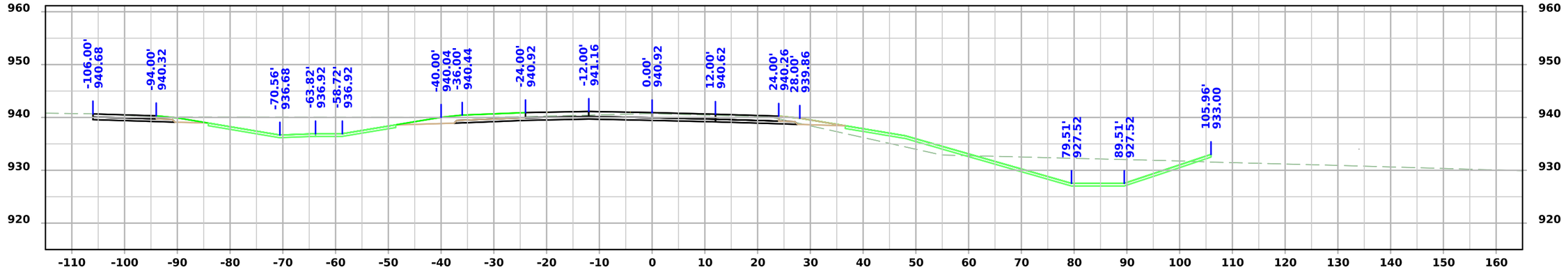
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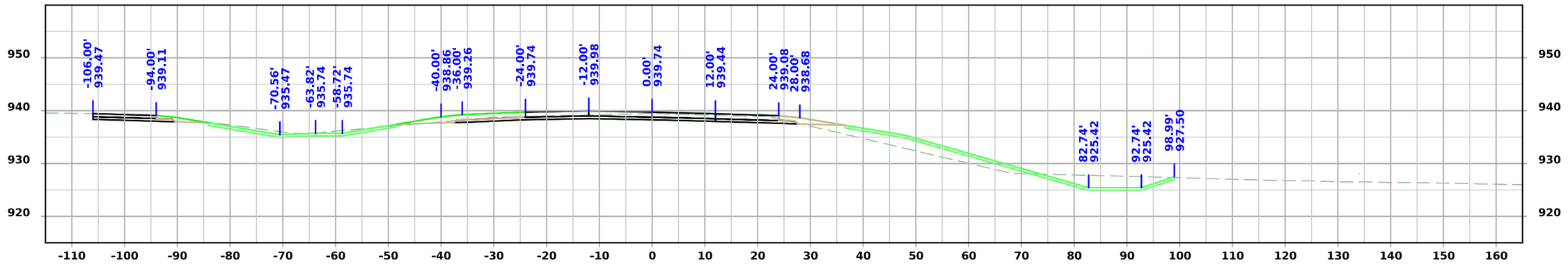
ML - I35 NB



STA 1164+00.00



STA 1163+50.00

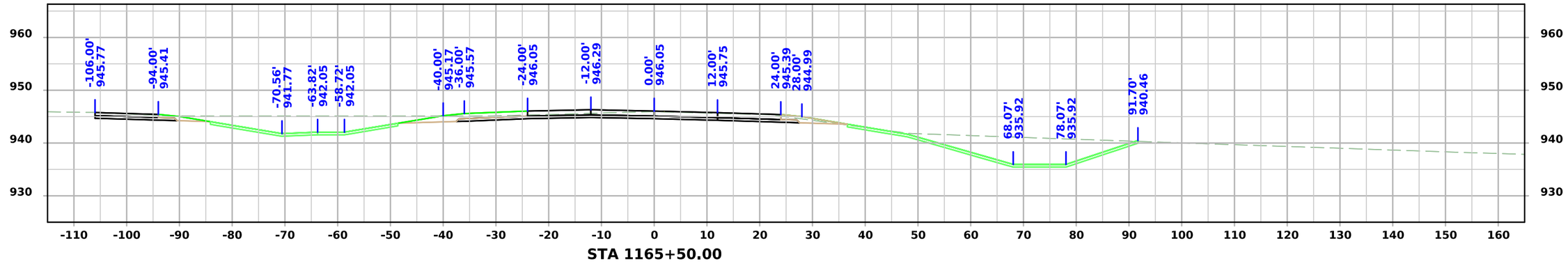


STA 1163+00.00

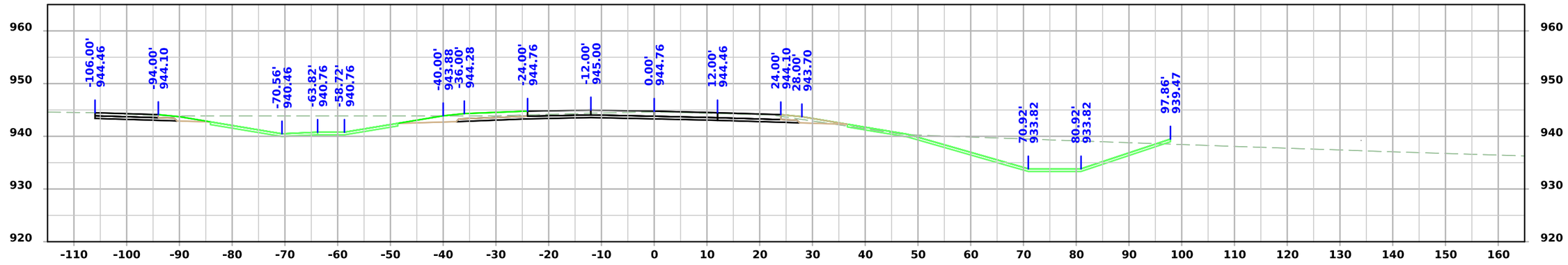
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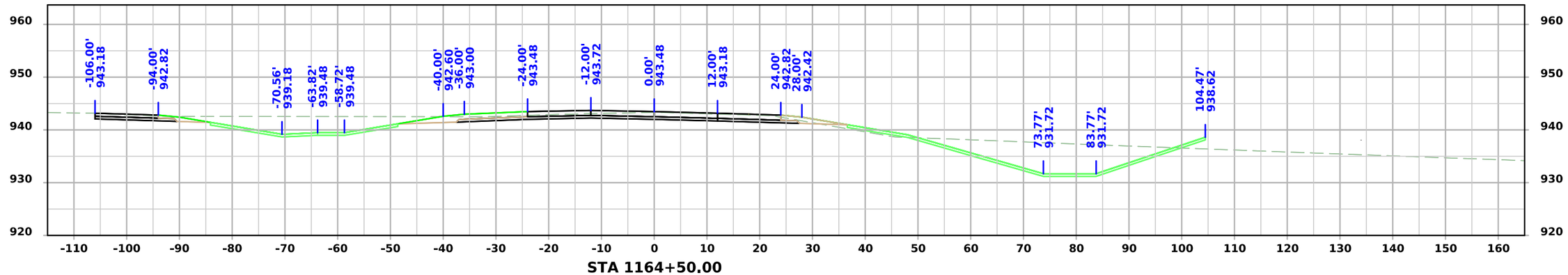
ML - I35 NB



STA 1165+50.00



STA 1165+00.00

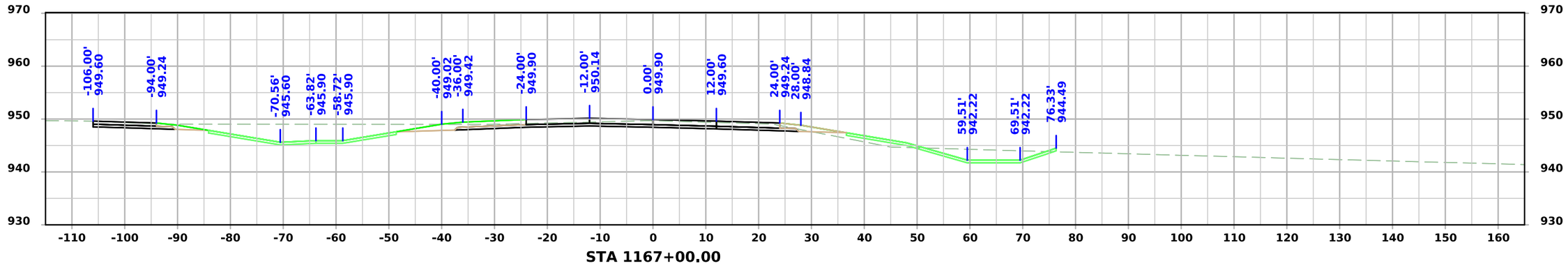


STA 1164+50.00

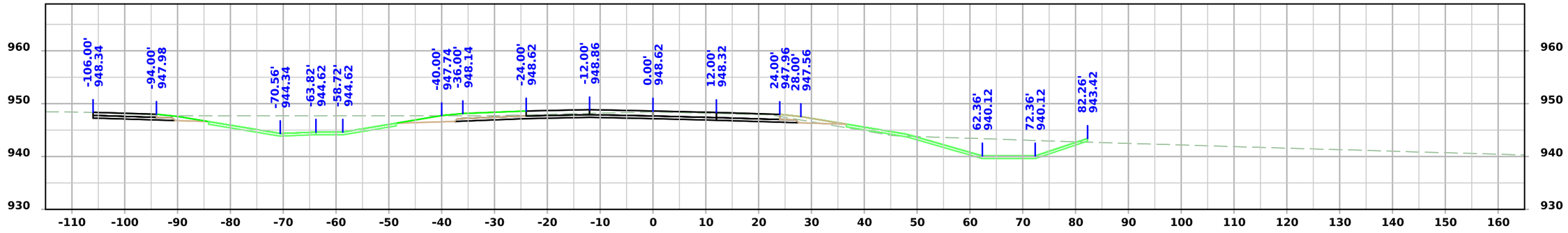
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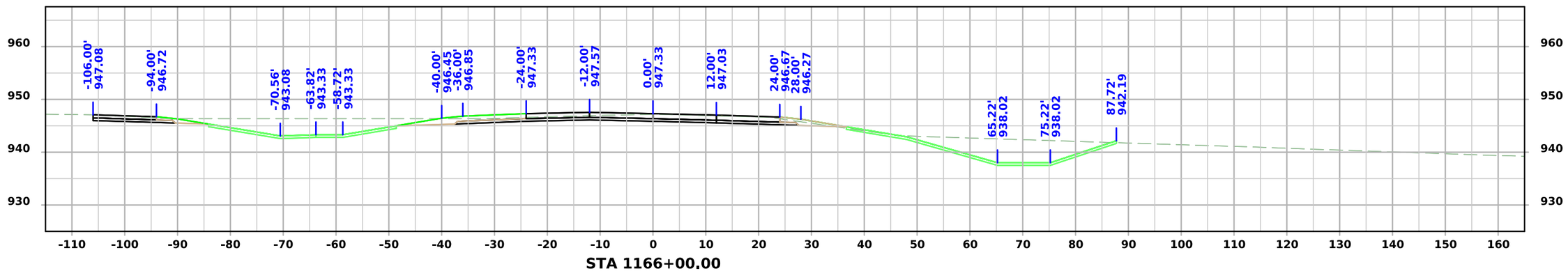
ML - I35 NB



STA 1167+00.00



STA 1166+50.00

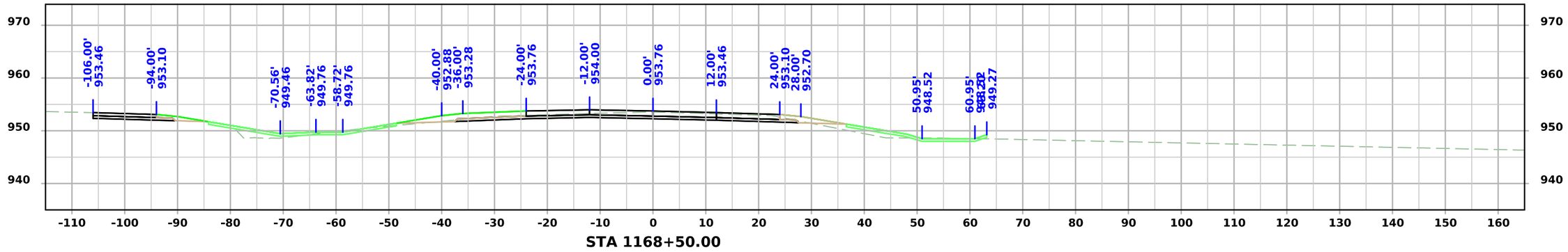


STA 1166+00.00

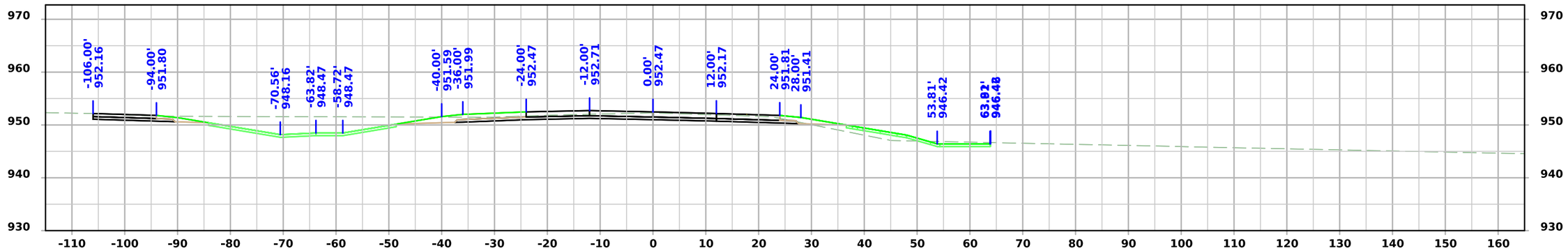
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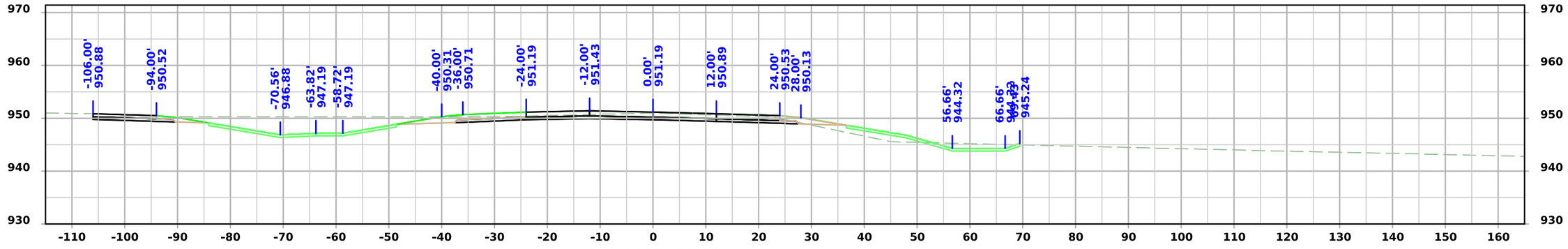
ML - I35 NB



STA 1168+50.00



STA 1168+00.00

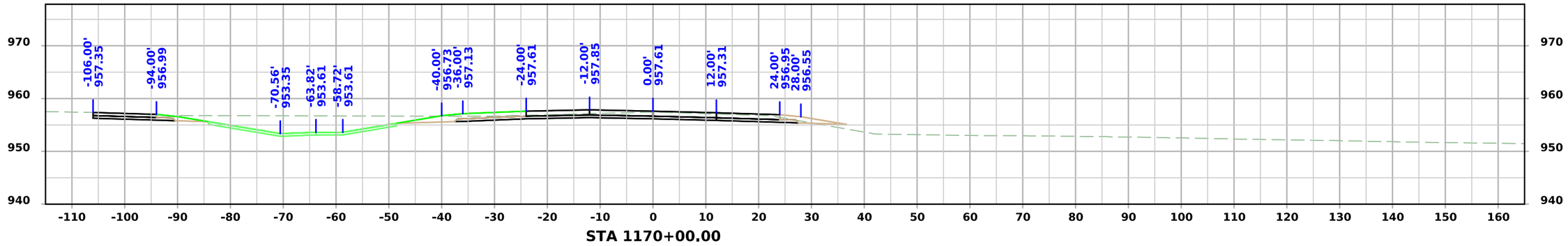


STA 1167+50.00

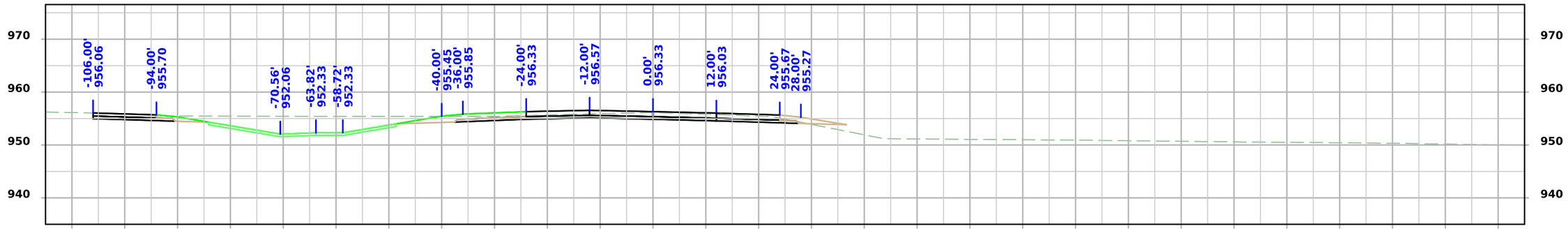
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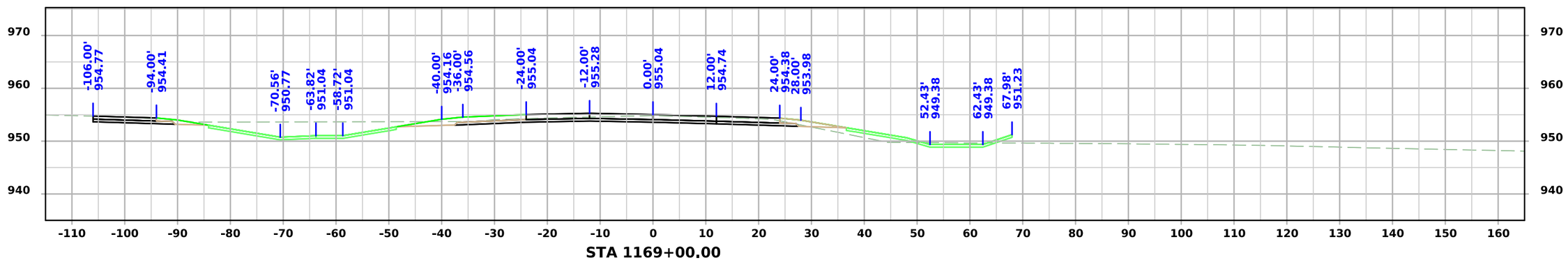
ML - I35 NB



STA 1170+00.00



STA 1169+50.00

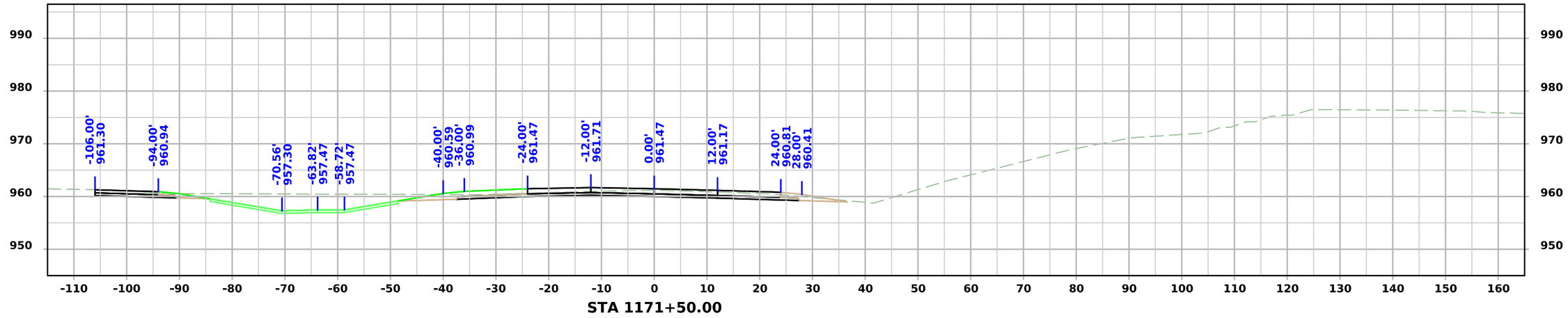


STA 1169+00.00

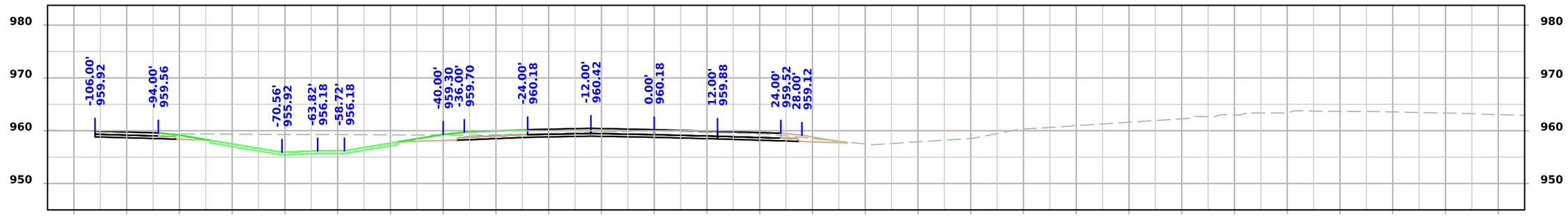
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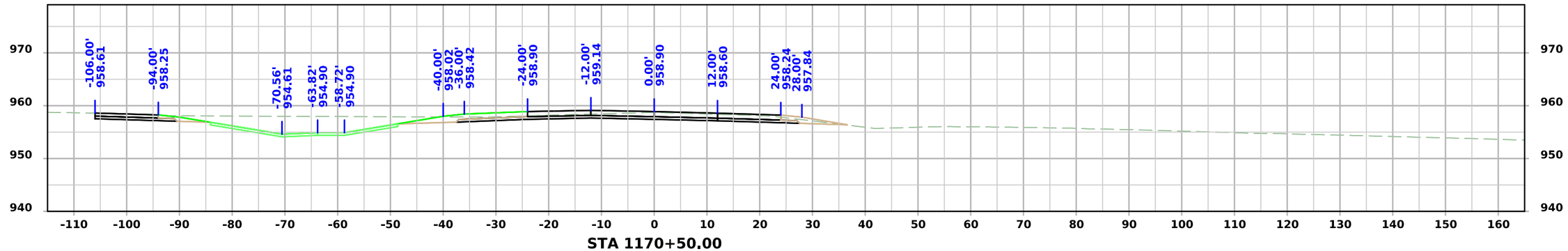
ML - I35 NB



STA 1171+50.00



STA 1171+00.00

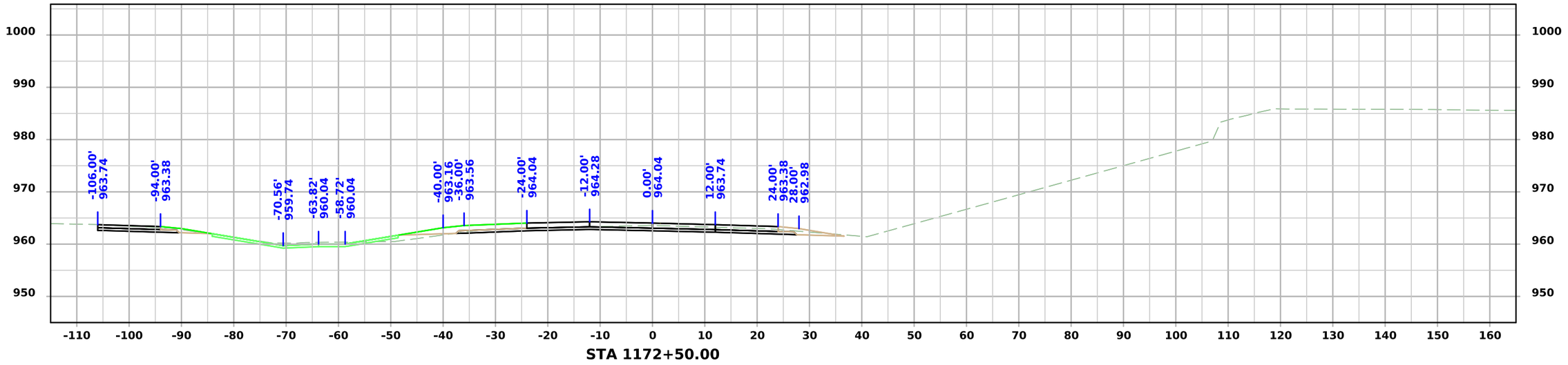


STA 1170+50.00

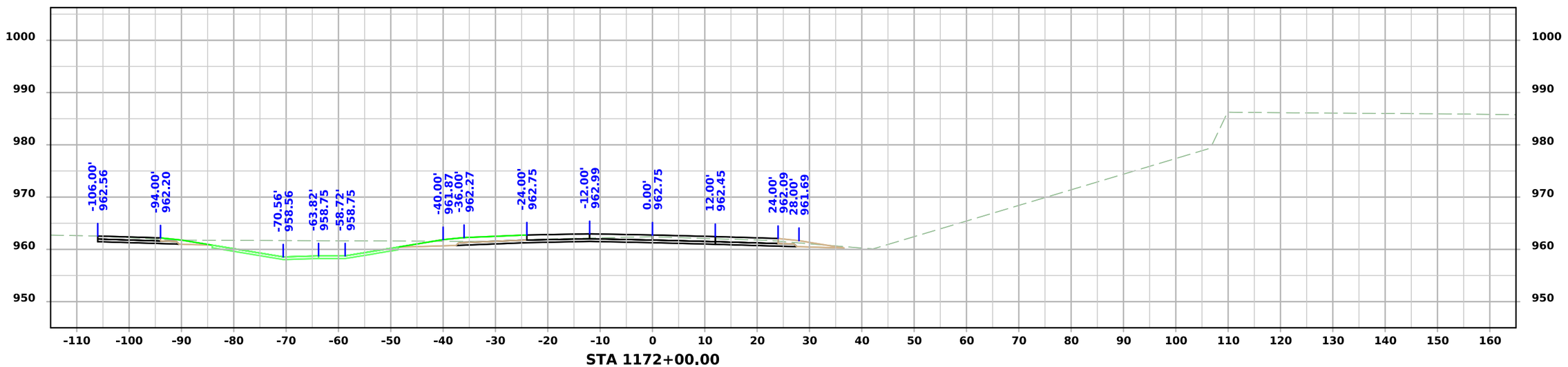
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ML - I35 NB



STA 1172+50.00

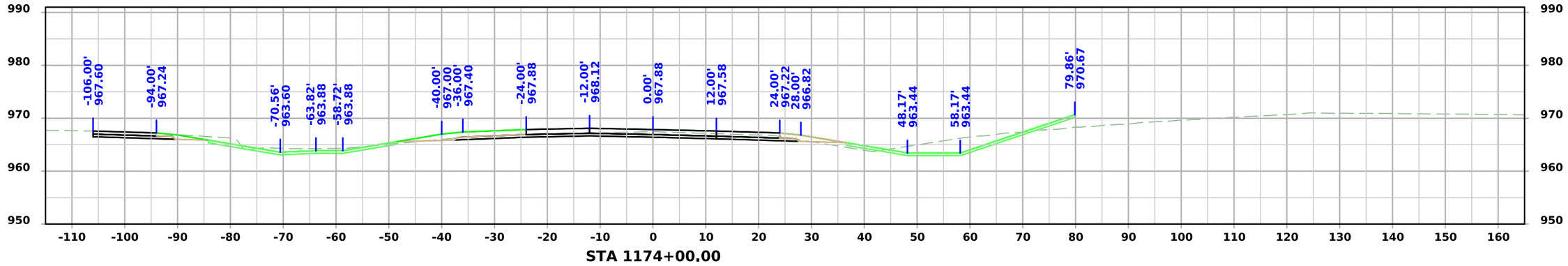


STA 1172+00.00

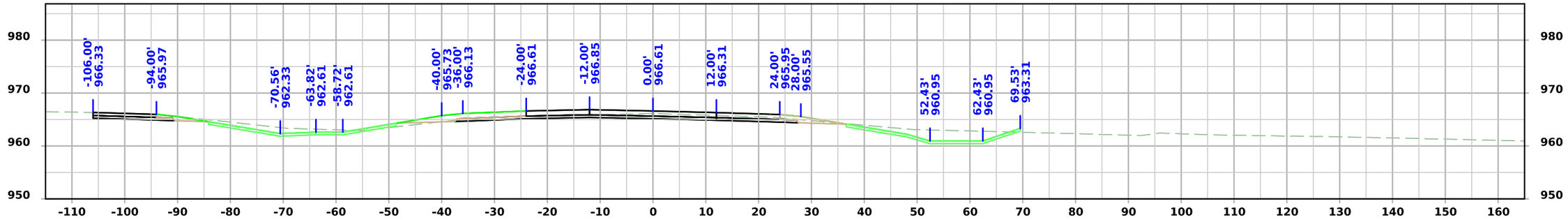
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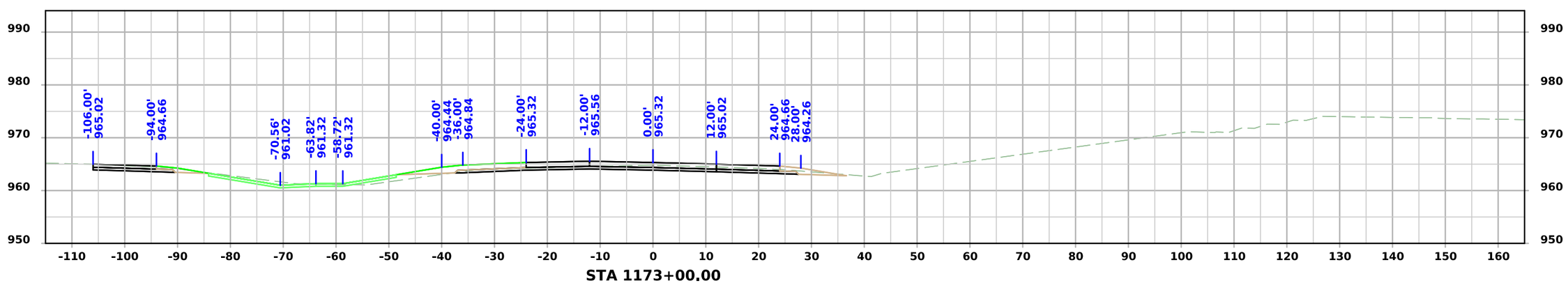
ML - I35 NB



STA 1174+00.00



STA 1173+50.00

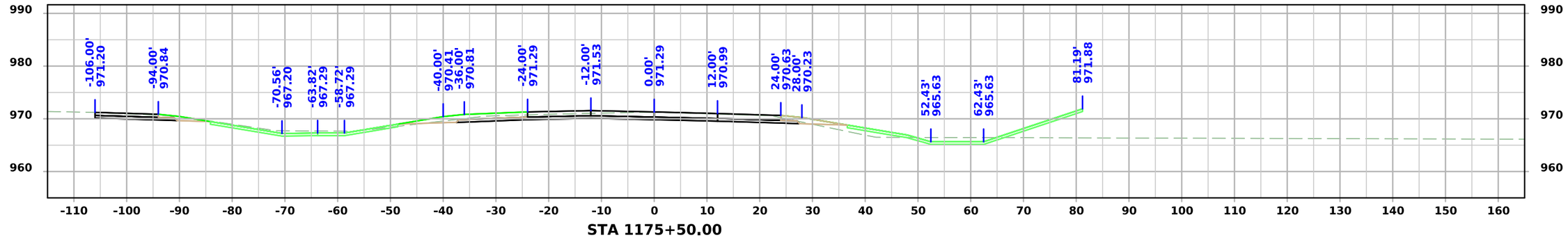


STA 1173+00.00

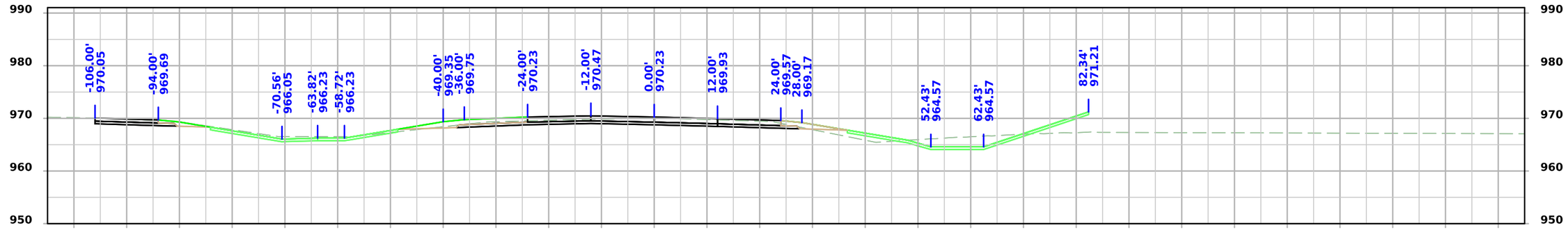
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.73

1:17:51 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

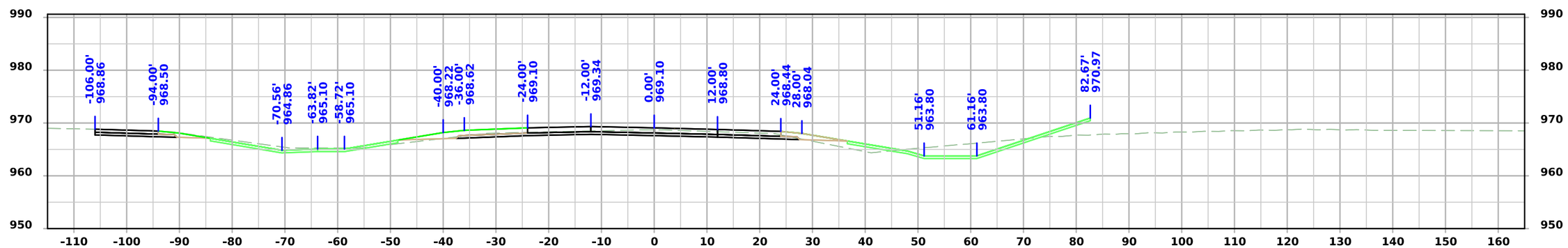
ML - I35 NB



STA 1175+50.00



STA 1175+00.00

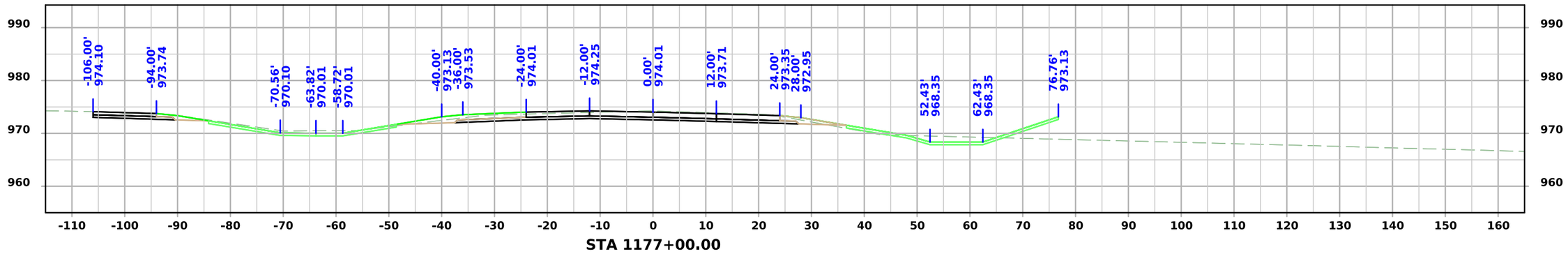


STA 1174+50.00

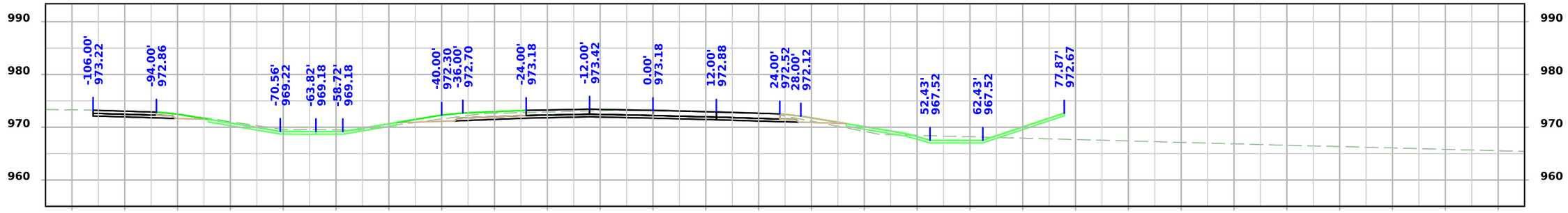
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.74

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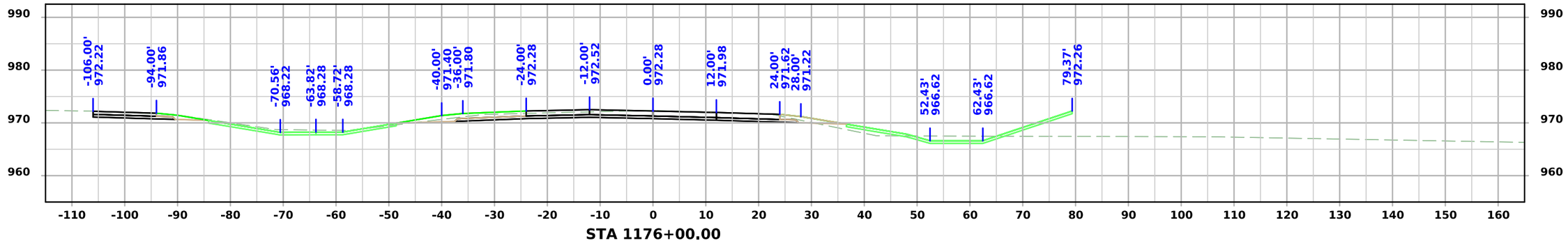
ML - I35 NB



STA 1177+00.00



STA 1176+50.00

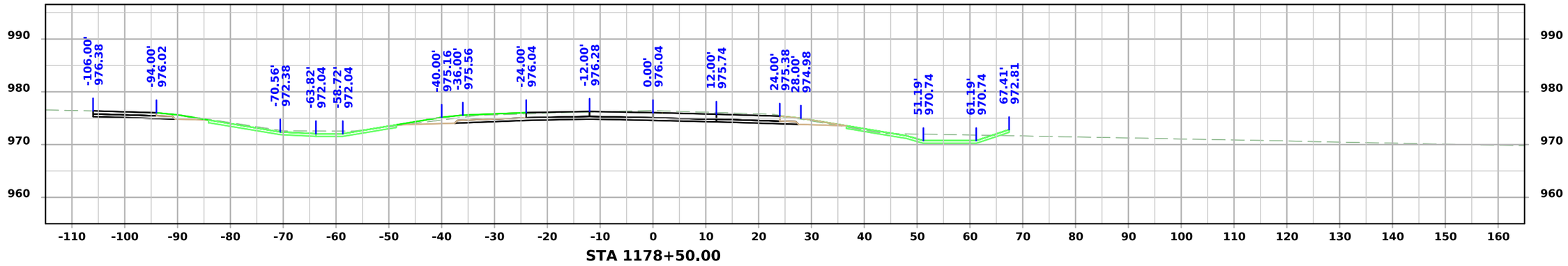


STA 1176+00.00

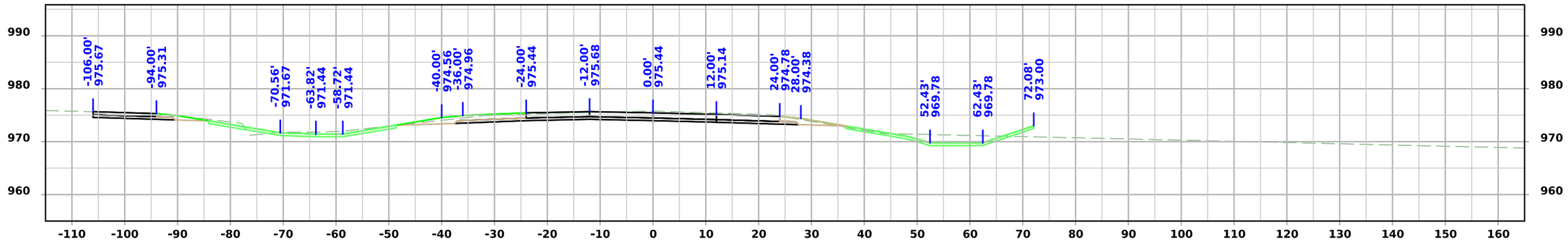
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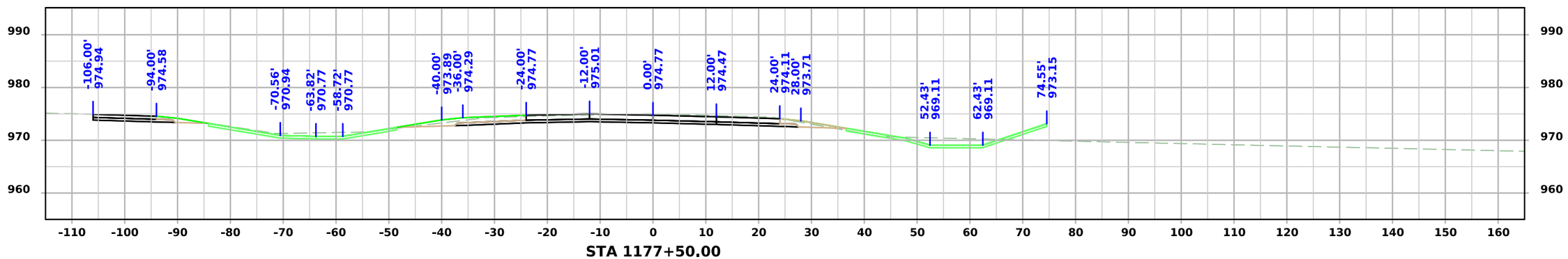
ML - I35 NB



STA 1178+50.00



STA 1178+00.00

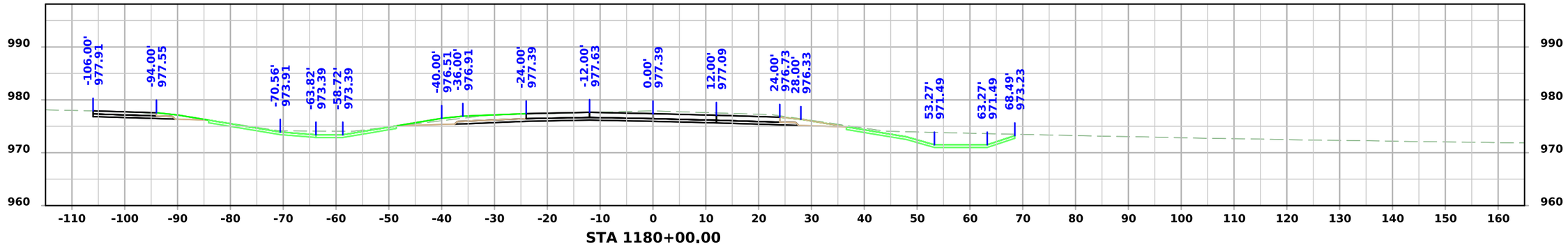


STA 1177+50.00

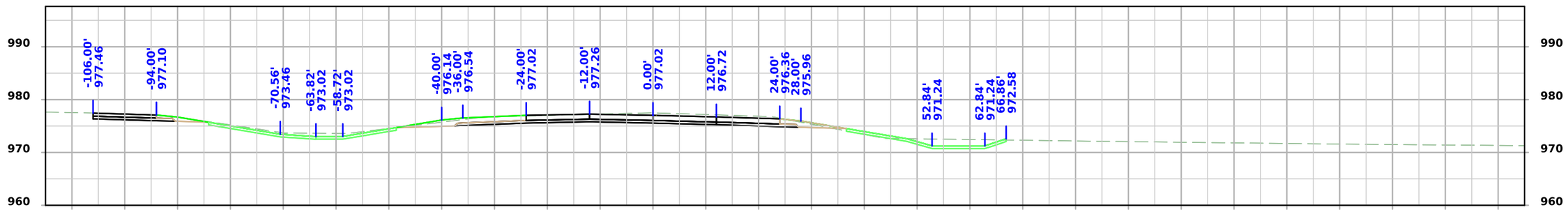
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1:17:56 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

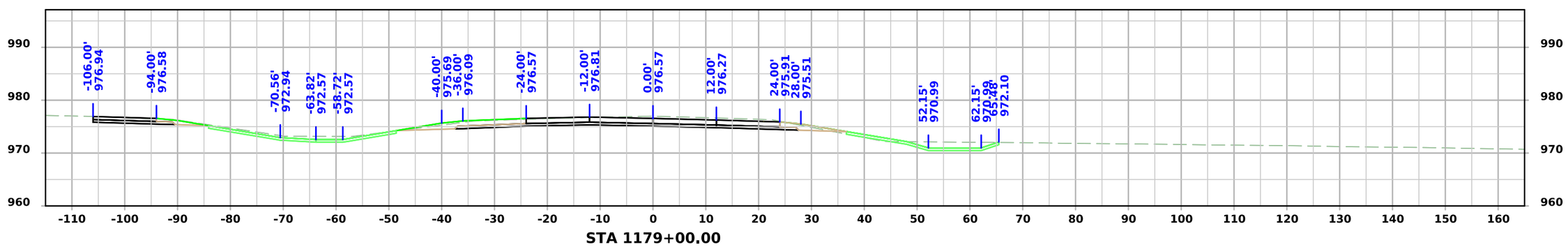
ML - I35 NB



STA 1180+00.00



STA 1179+50.00

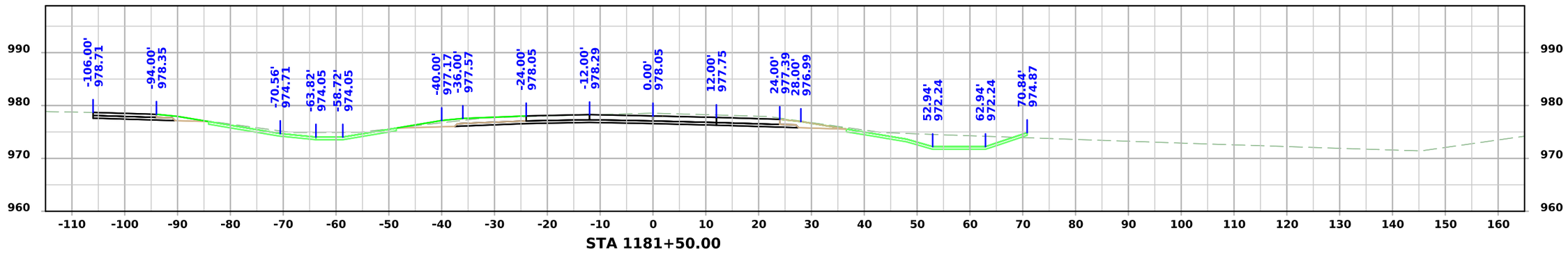


STA 1179+00.00

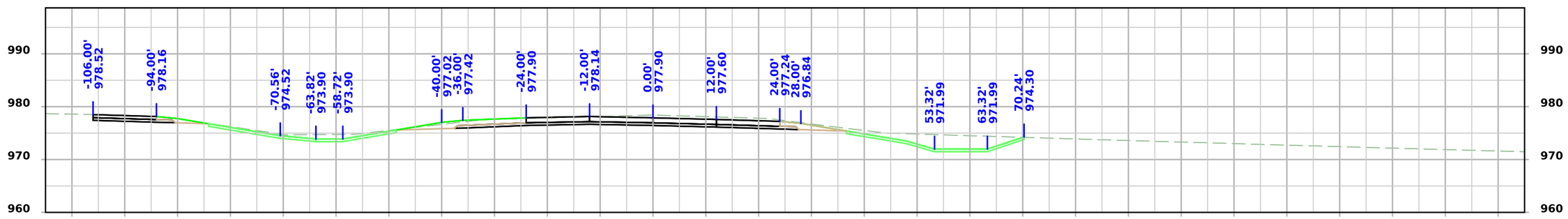
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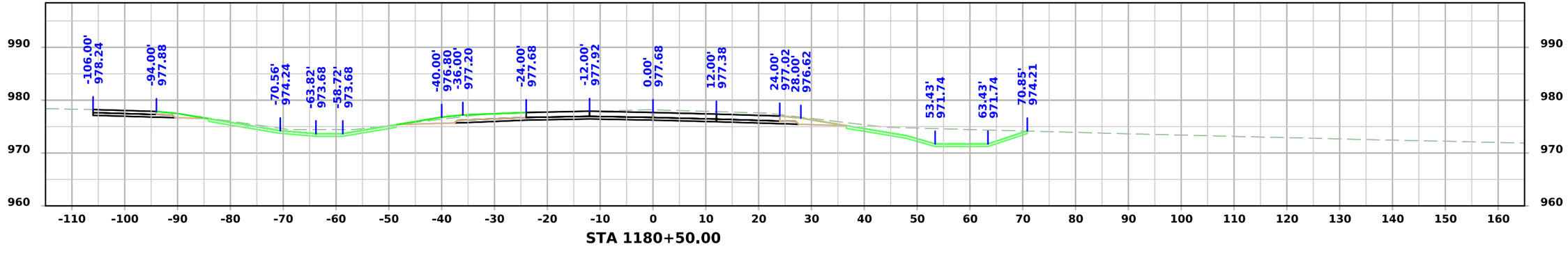
ML - I35 NB



STA 1181+50.00



STA 1181+00.00

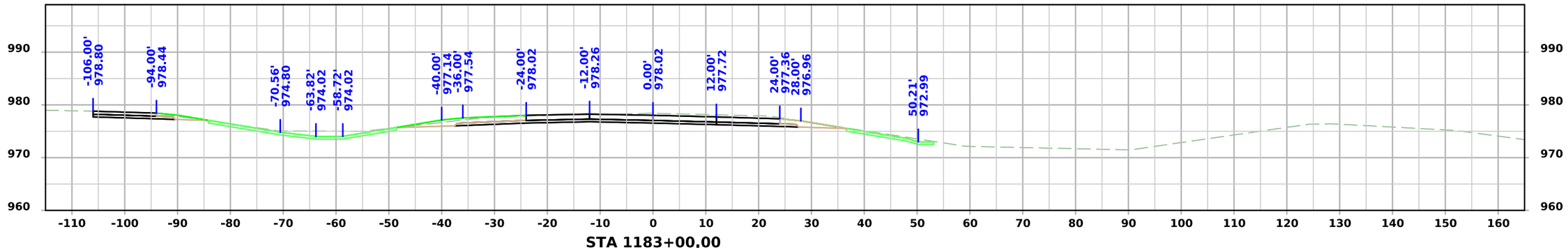


STA 1180+50.00

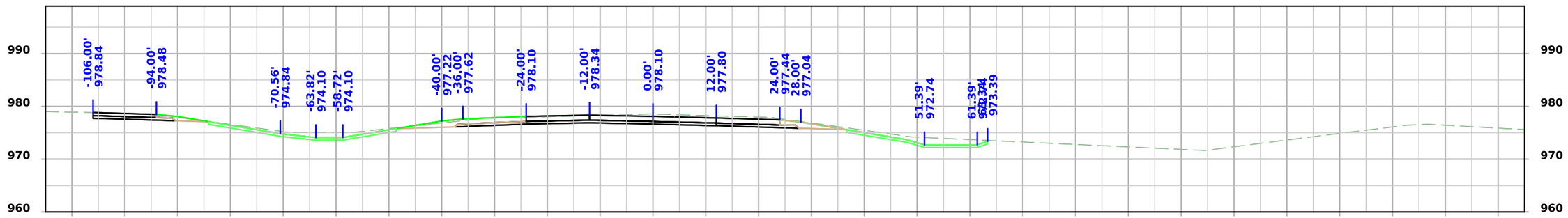
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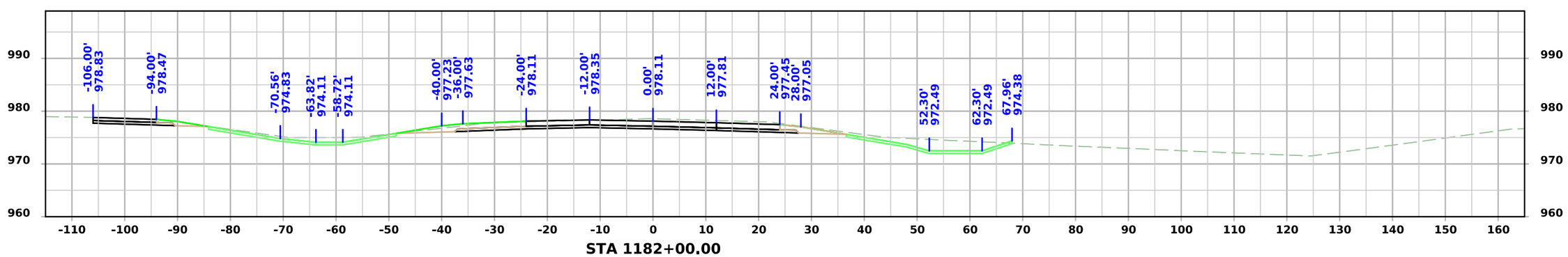
ML - I35 NB



STA 1183+00.00



STA 1182+50.00

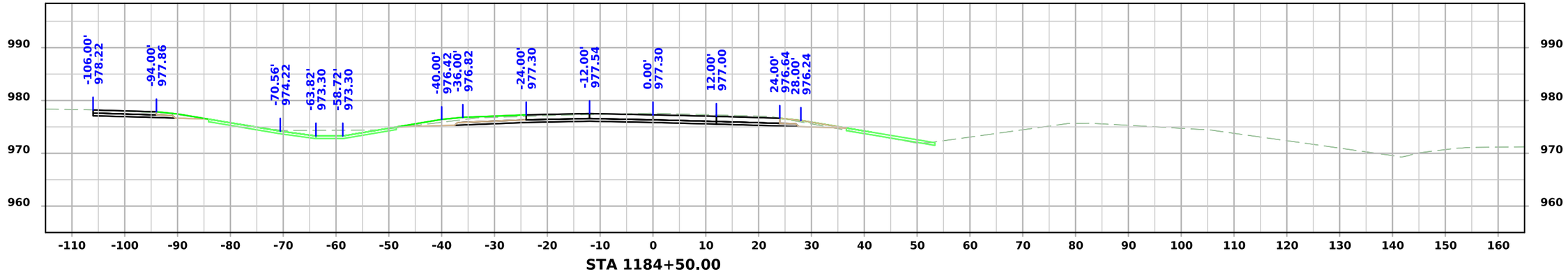


STA 1182+00.00

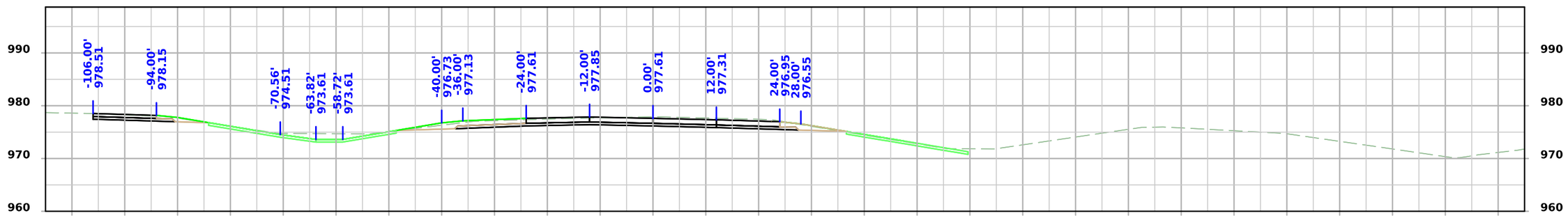
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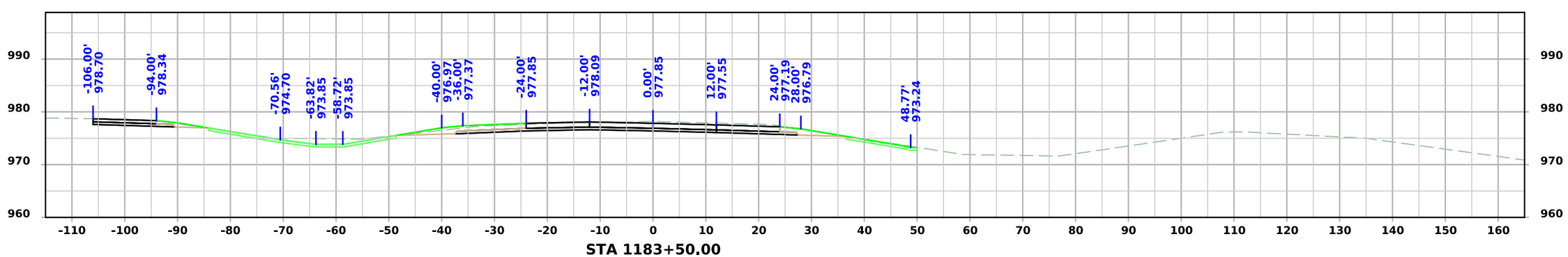
ML - I35 NB



STA 1184+50.00



STA 1184+00.00

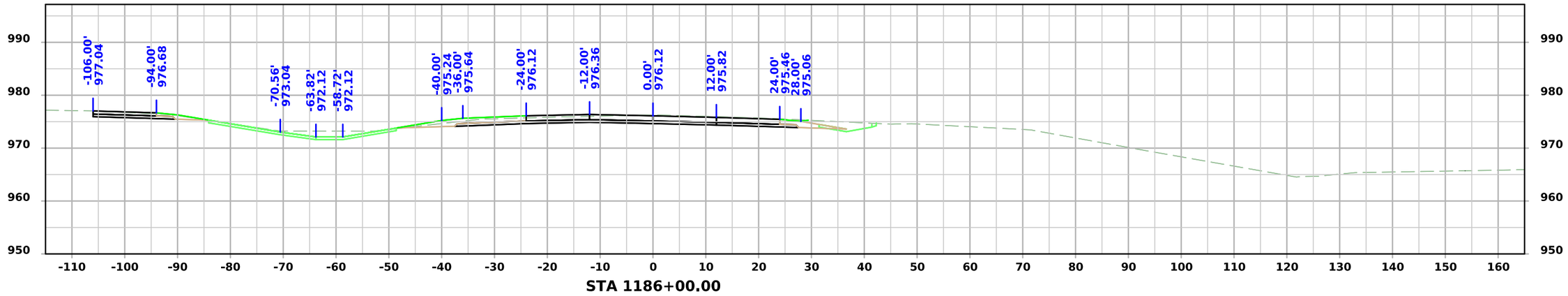


STA 1183+50.00

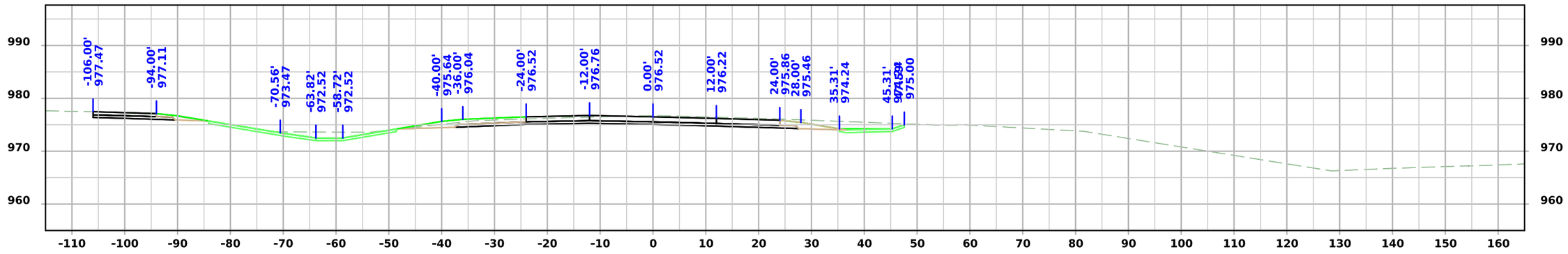
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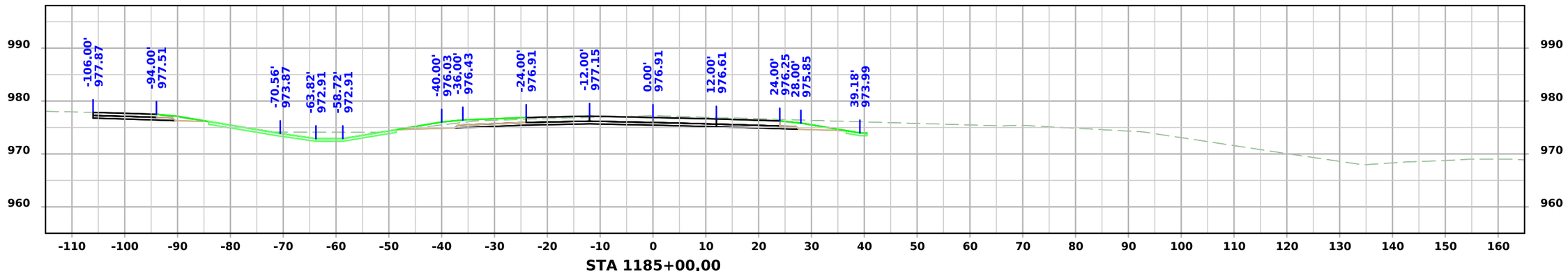
ML - I35 NB



STA 1186+00.00



STA 1185+50.00

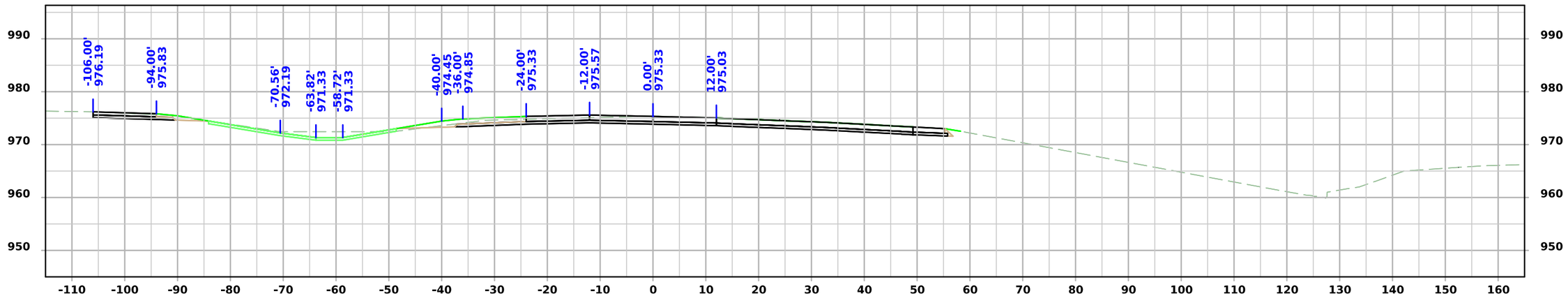


STA 1185+00.00

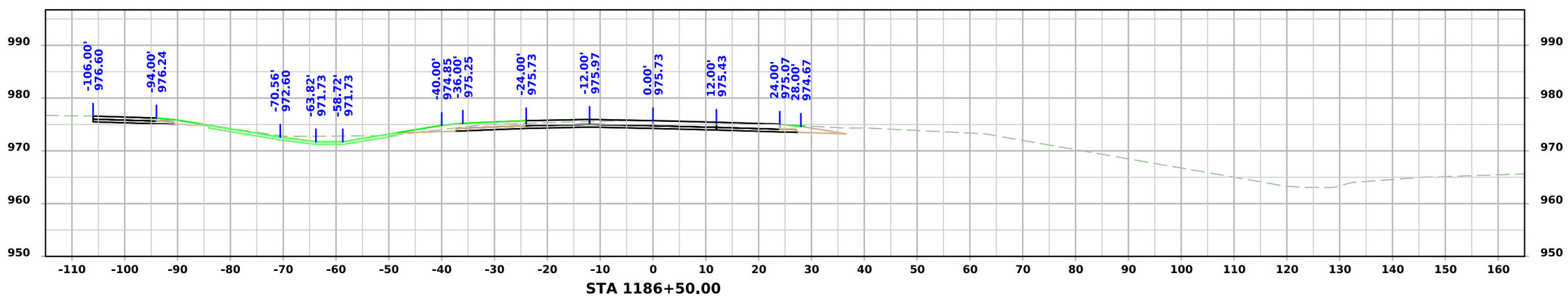
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ML - I35 NB



STA 1187+00.00

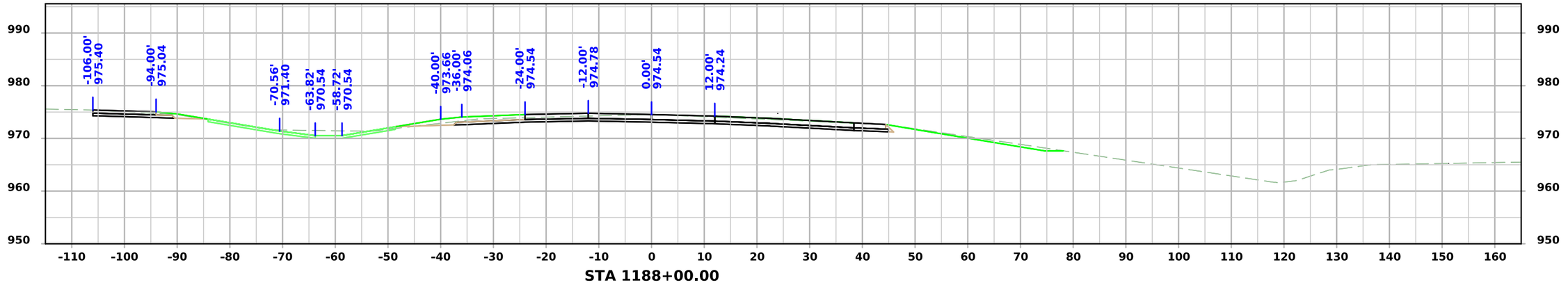


STA 1186+50.00

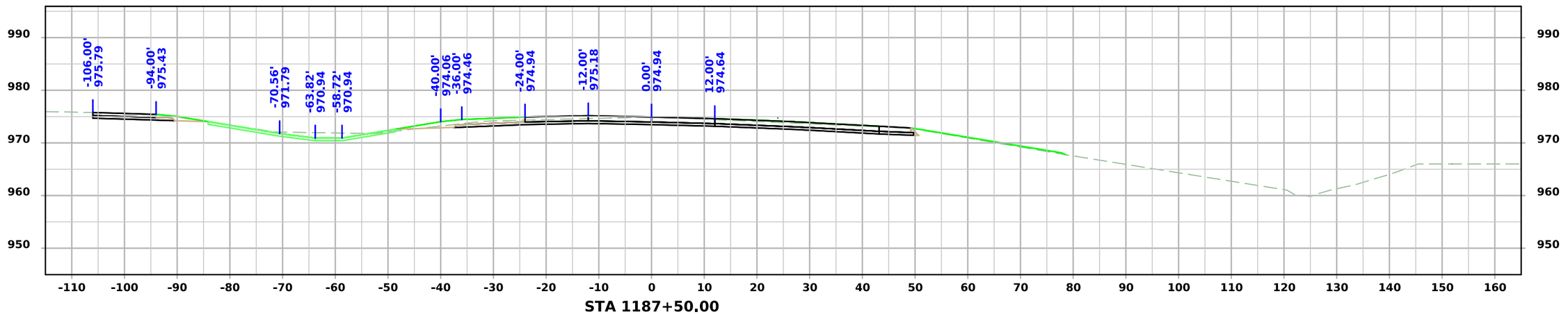
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ML - I35 NB



STA 1188+00.00

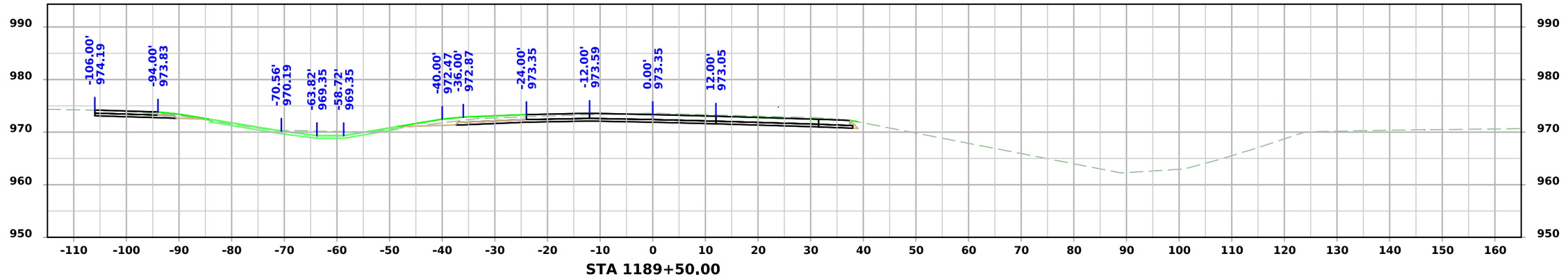


STA 1187+50.00

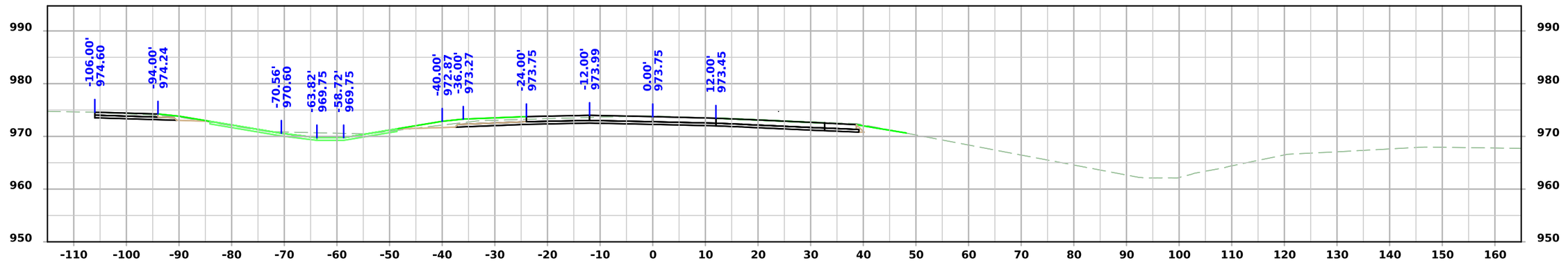
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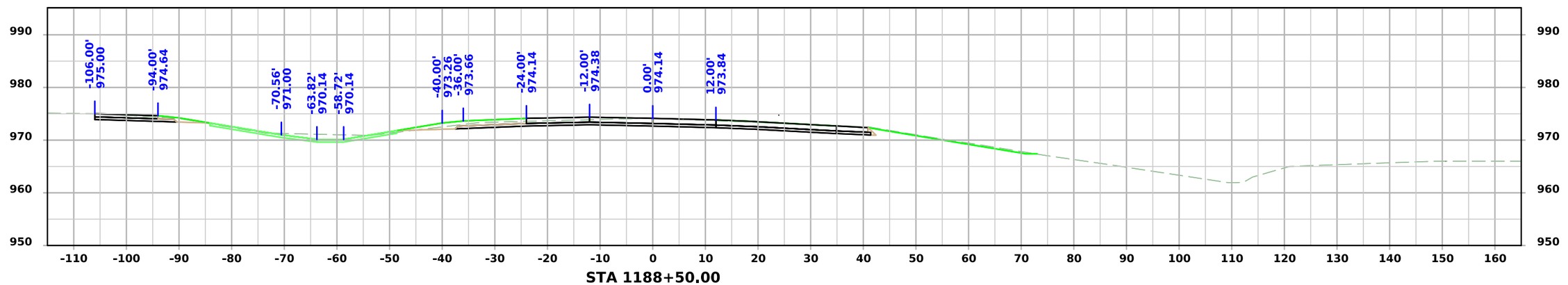
ML - I35 NB



STA 1189+50.00



STA 1189+00.00

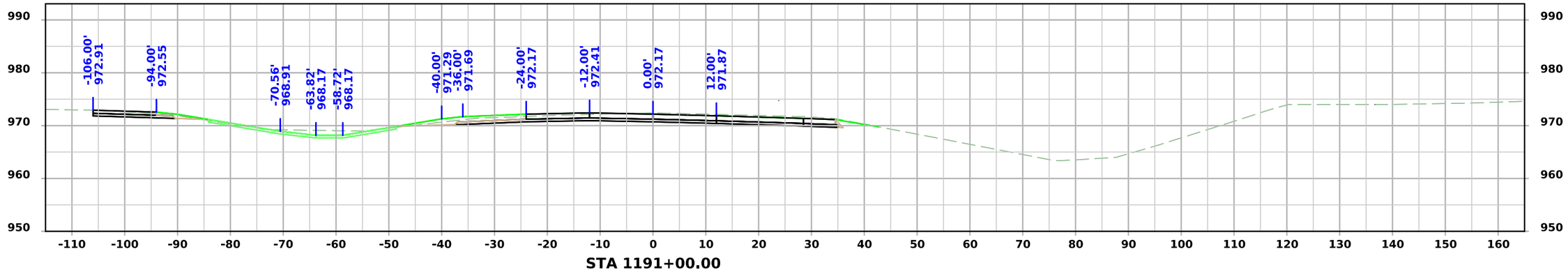


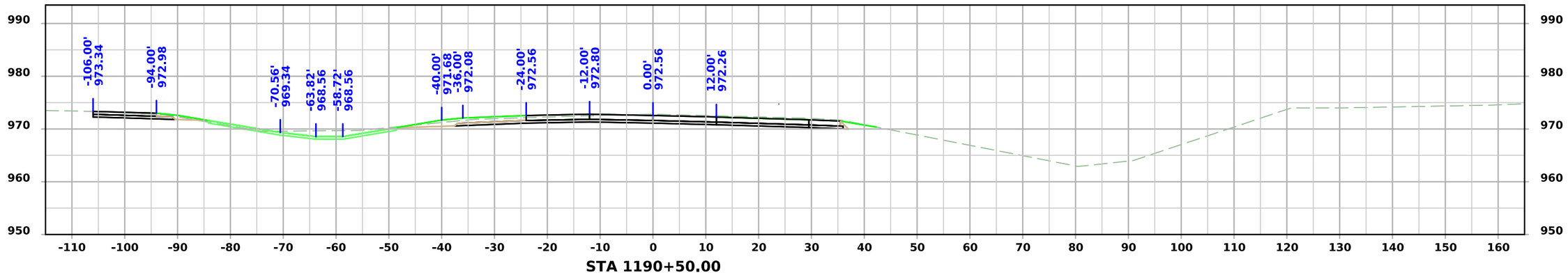
STA 1188+50.00

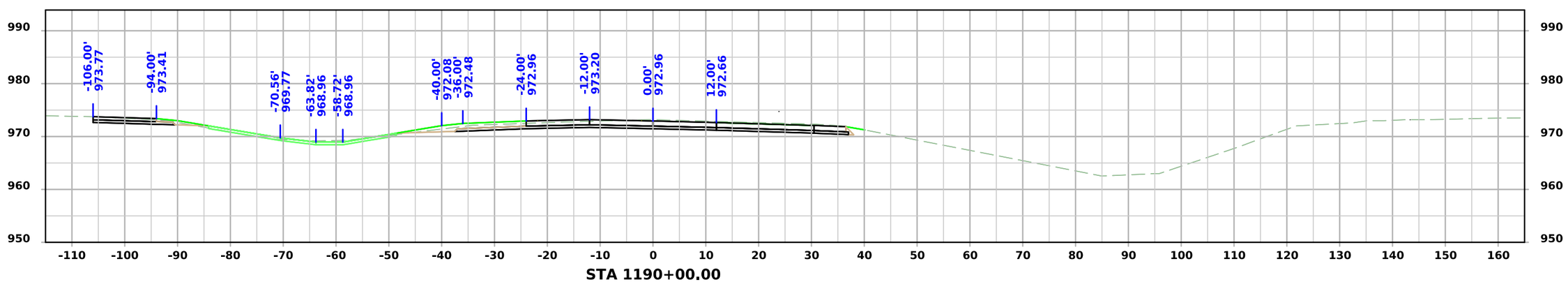
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ML - I35 NB



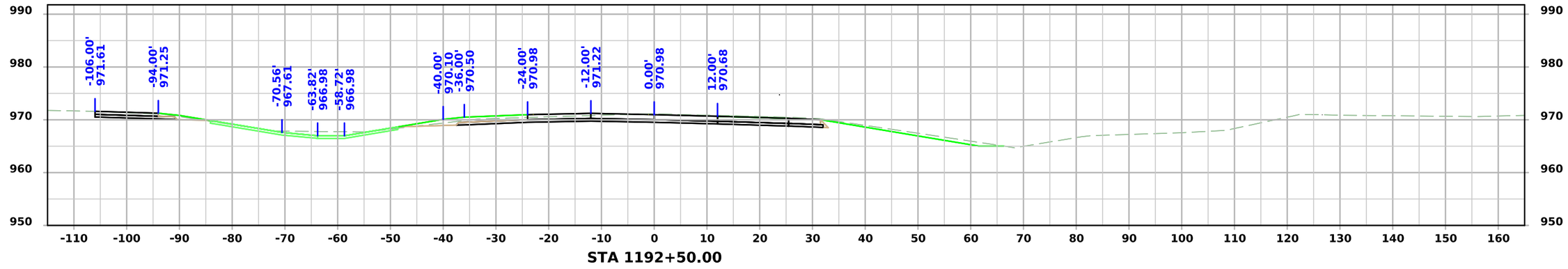




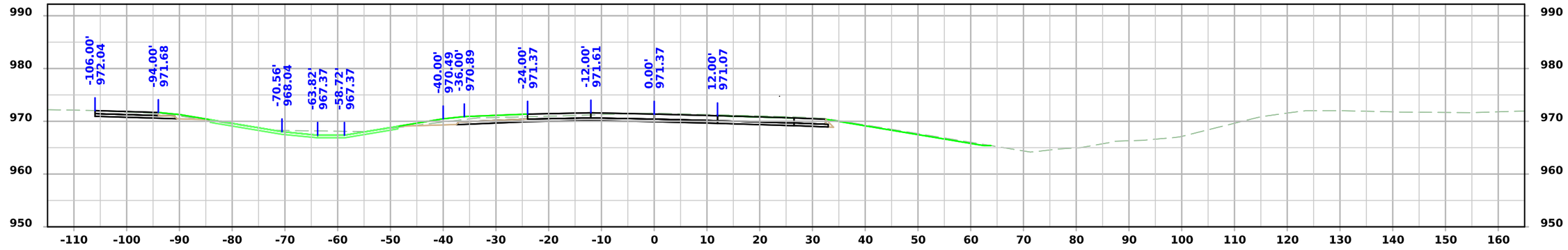
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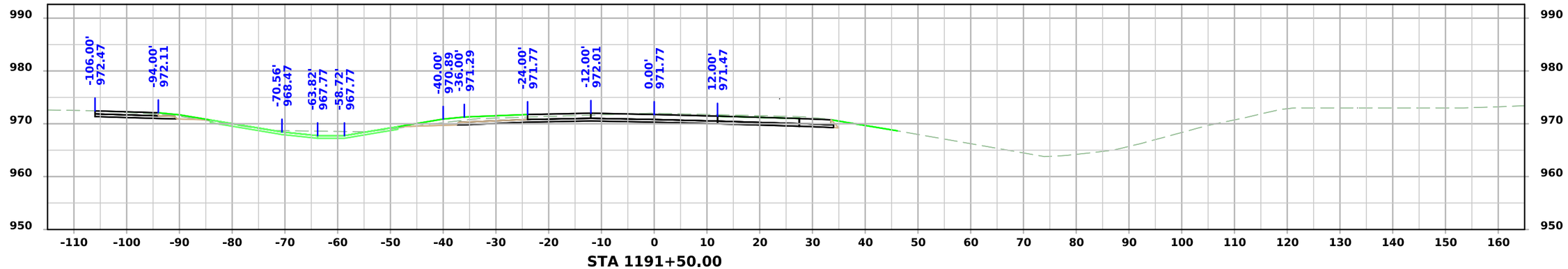
ML - I35 NB



STA 1192+50.00



STA 1192+00.00

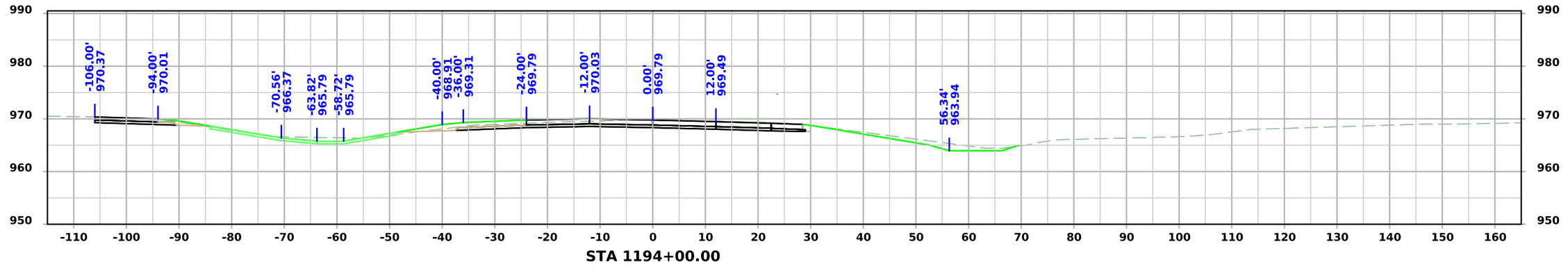


STA 1191+50.00

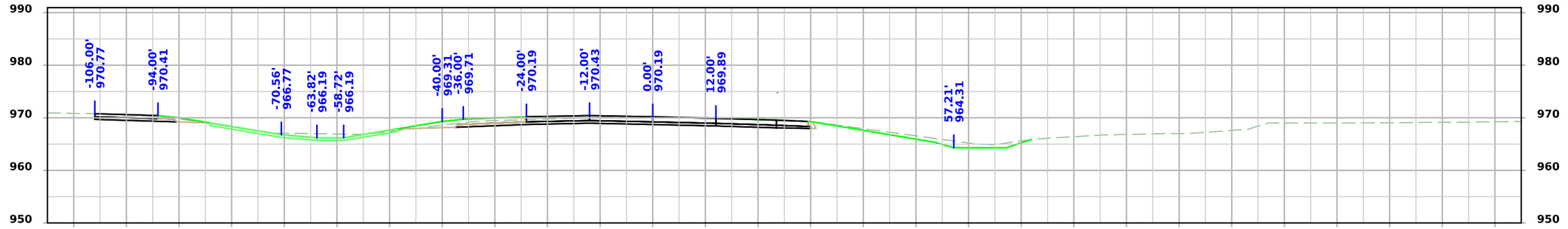
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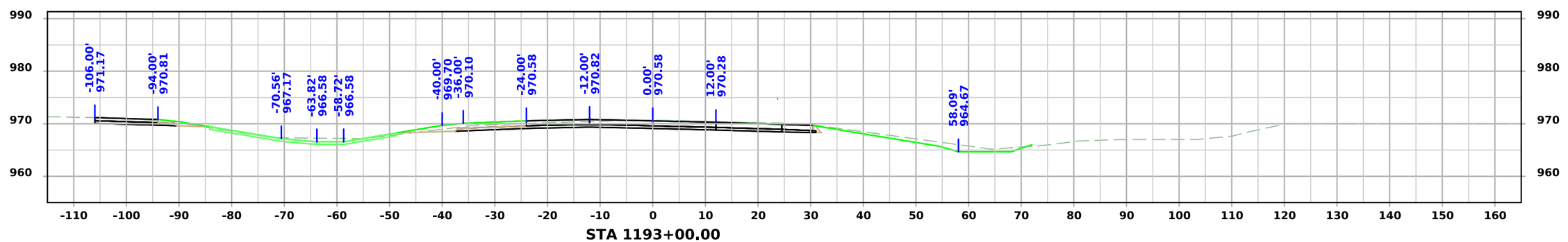
ML - I35 NB



STA 1194+00.00



STA 1193+50.00

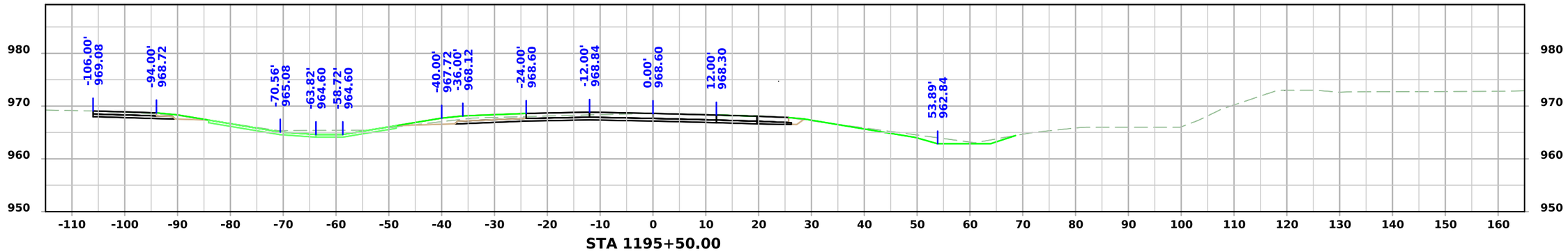


STA 1193+00.00

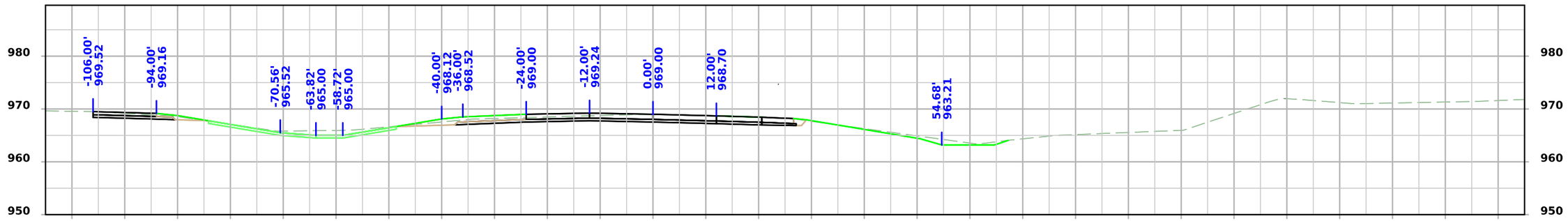
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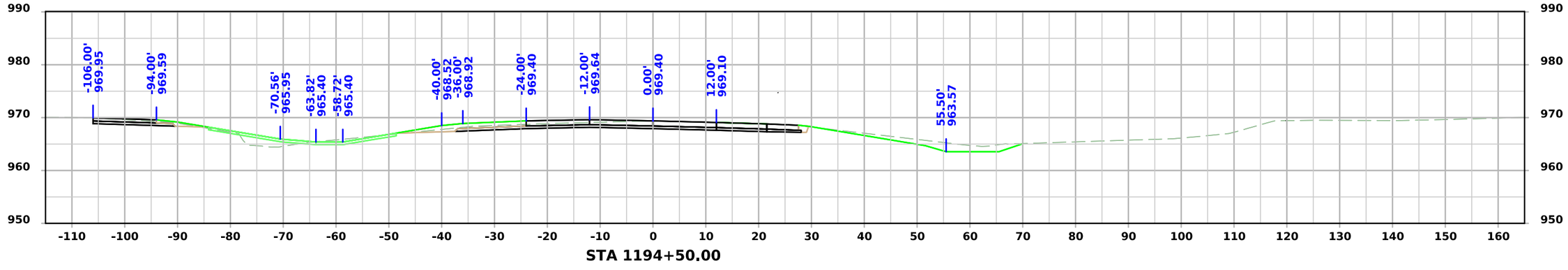
ML - I35 NB



STA 1195+50.00



STA 1195+00.00

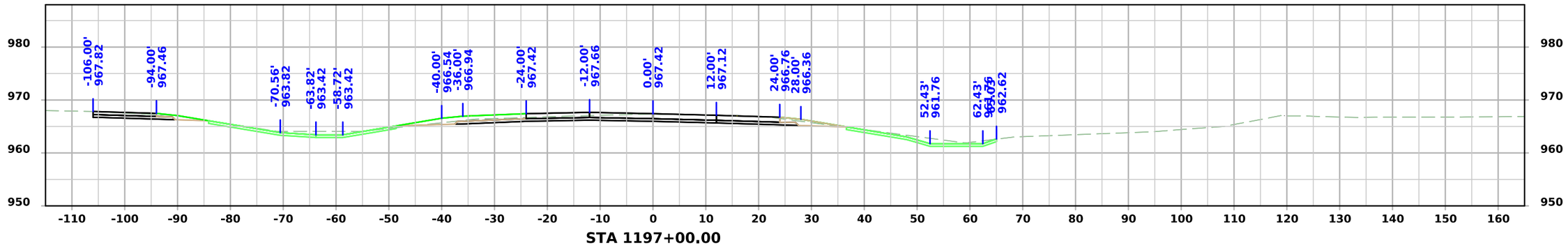


STA 1194+50.00

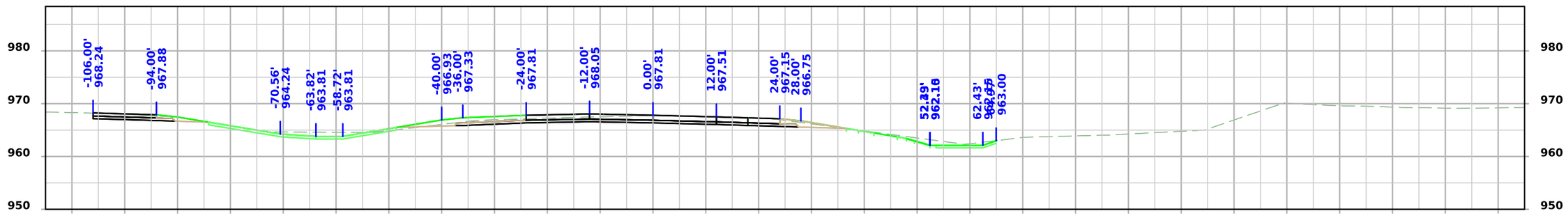
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.88

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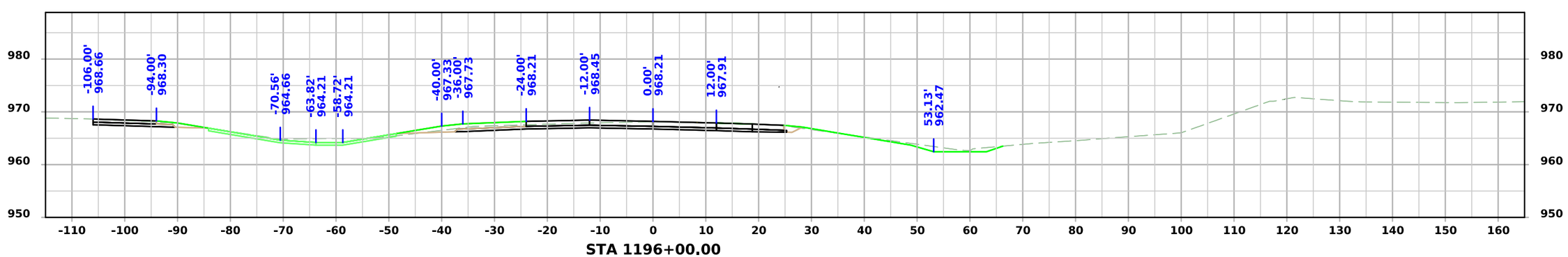
ML - I35 NB



STA 1197+00.00



STA 1196+50.00

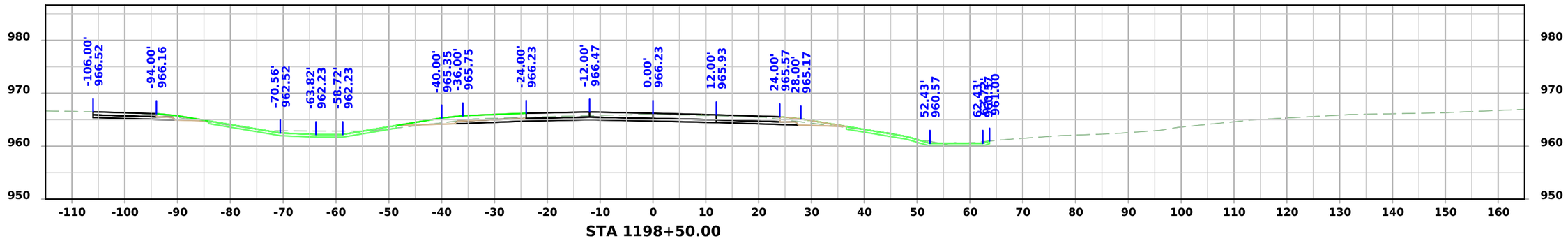


STA 1196+00.00

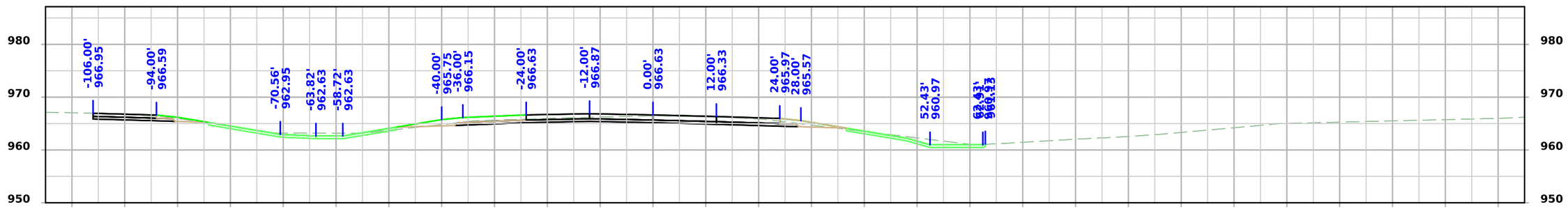
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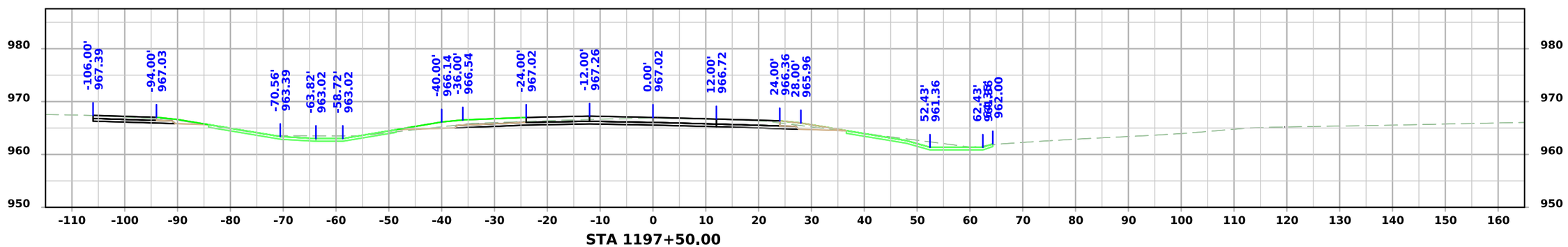
ML - I35 NB



STA 1198+50.00



STA 1198+00.00

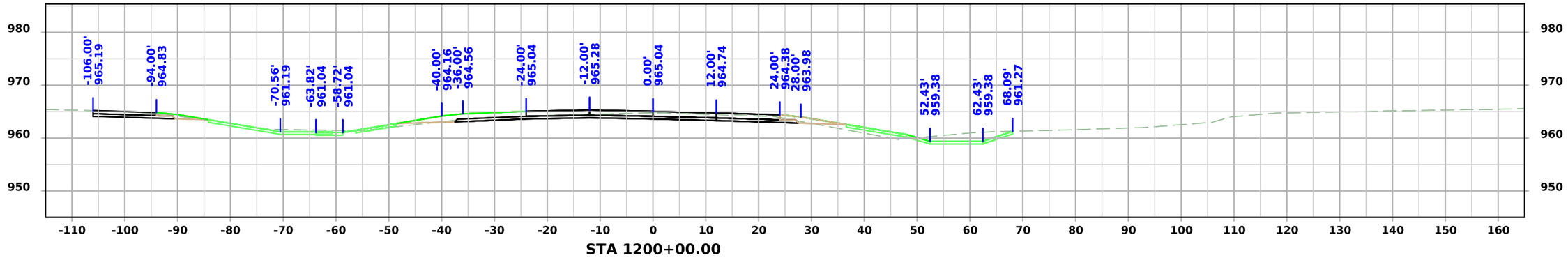


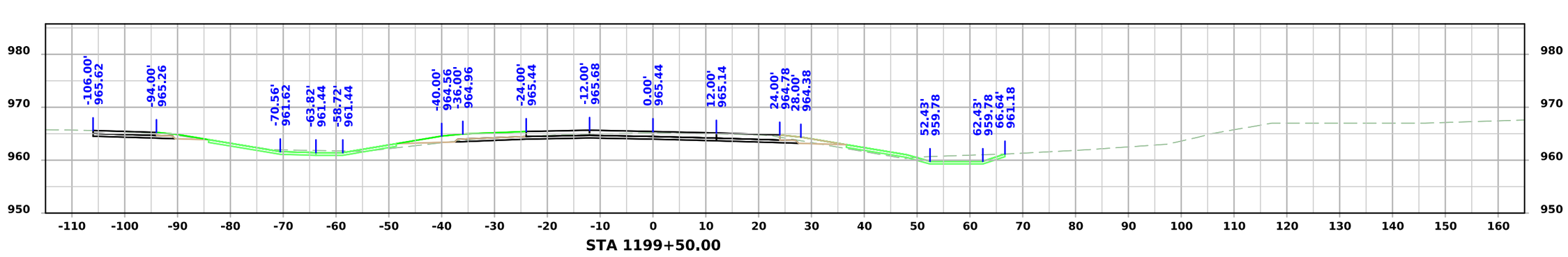
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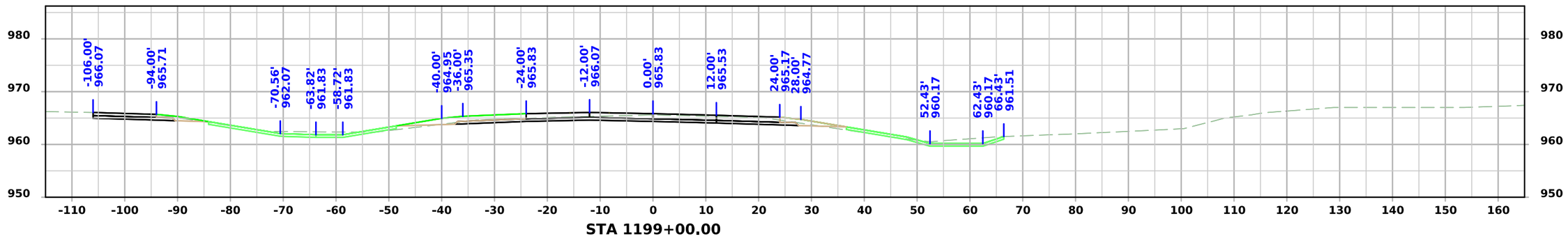
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ML - I35 NB



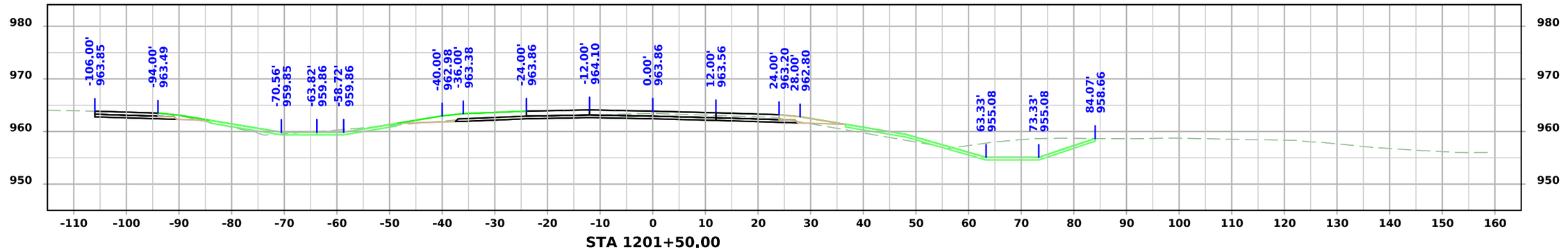




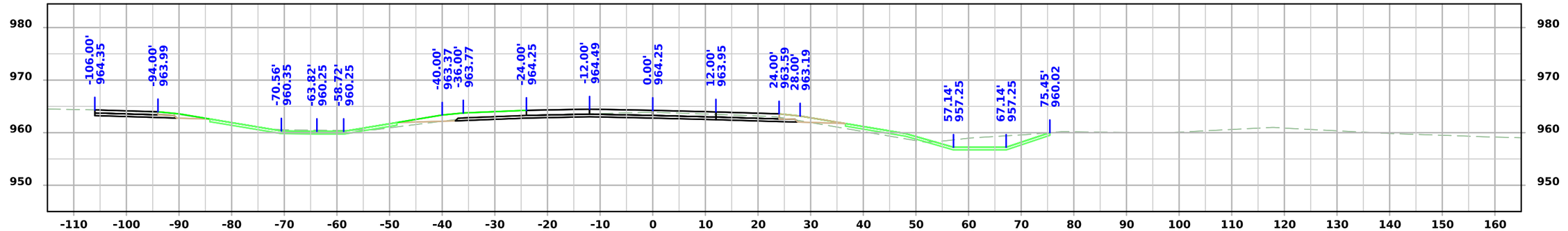
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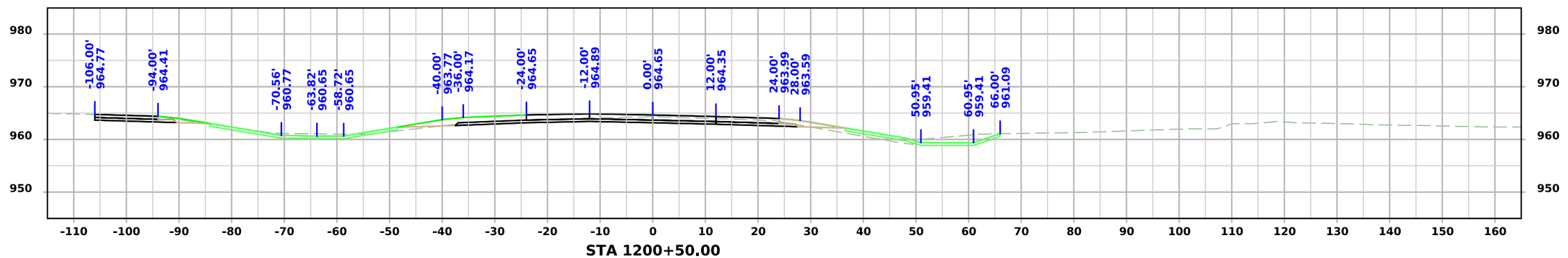
ML - I35 NB



STA 1201+50.00



STA 1201+00.00

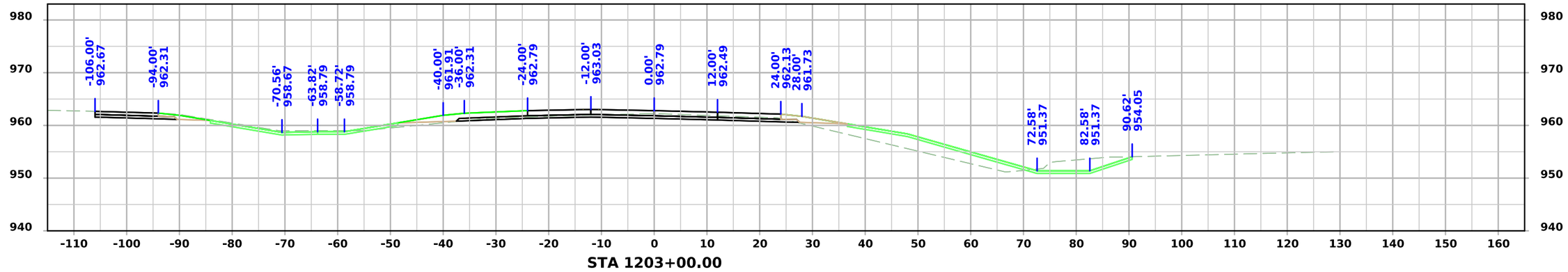


STA 1200+50.00

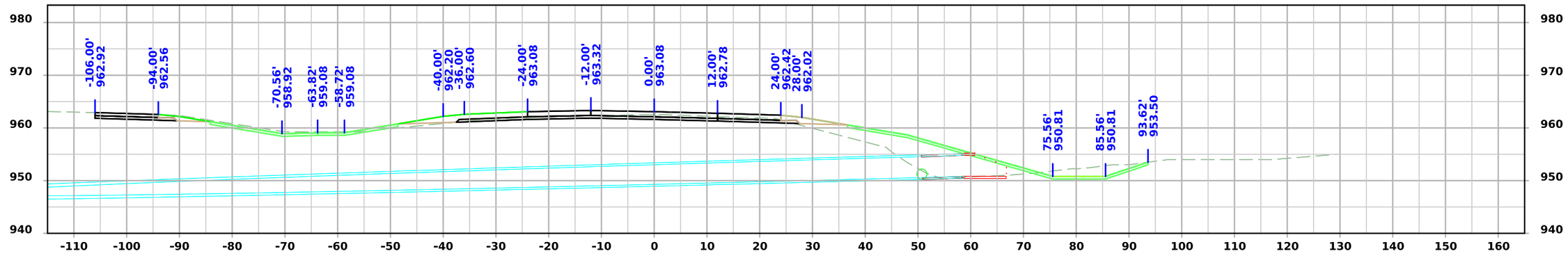
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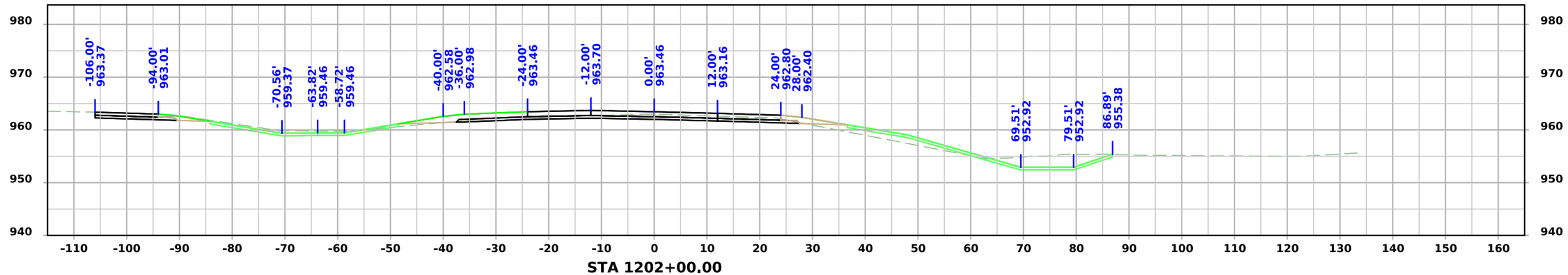
ML - I35 NB



STA 1203+00.00



STA 1202+50.00

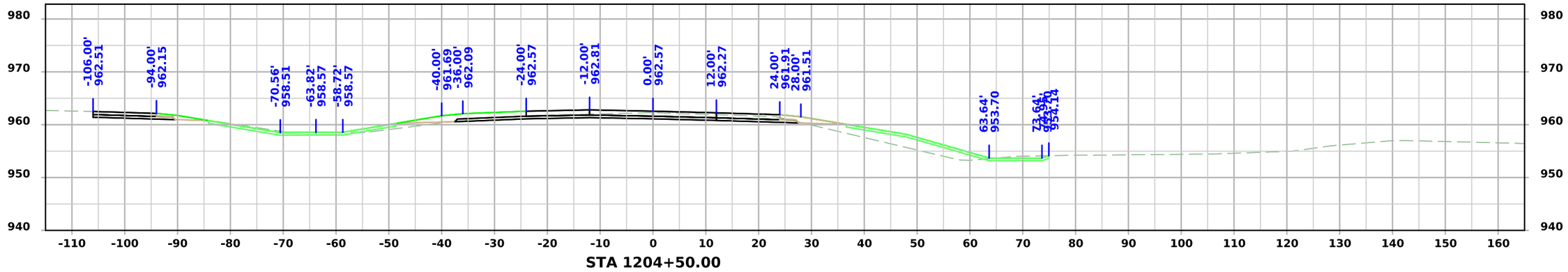


STA 1202+00.00

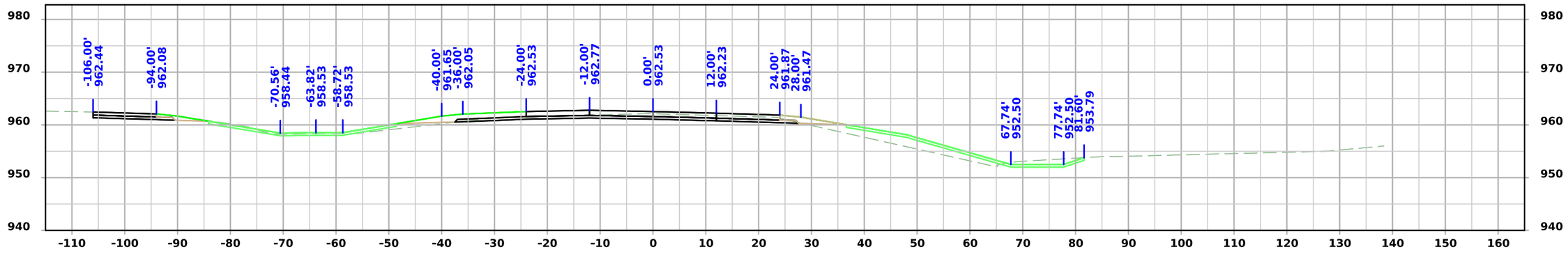
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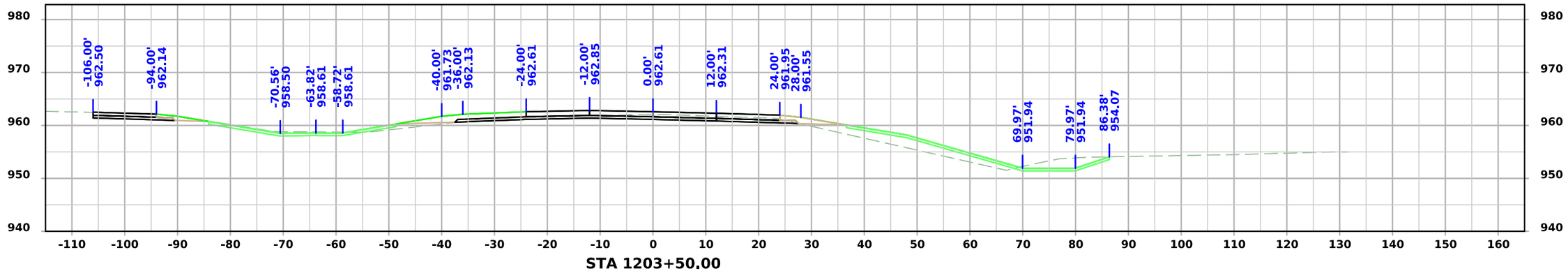
ML - I35 NB



STA 1204+50.00



STA 1204+00.00

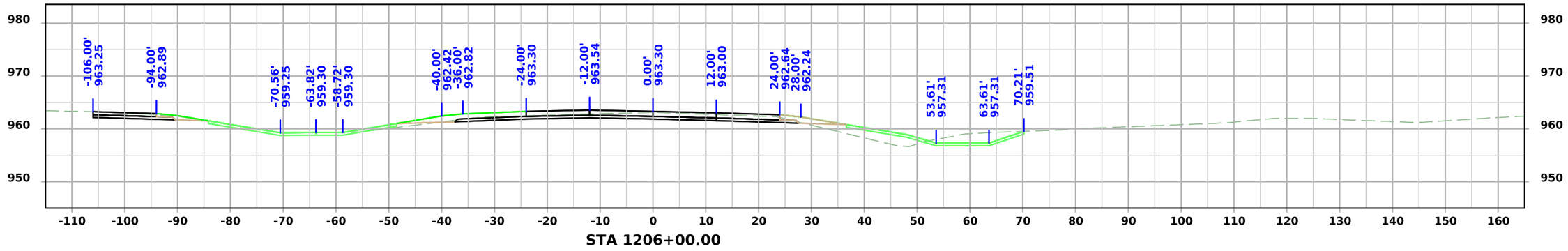


STA 1203+50.00

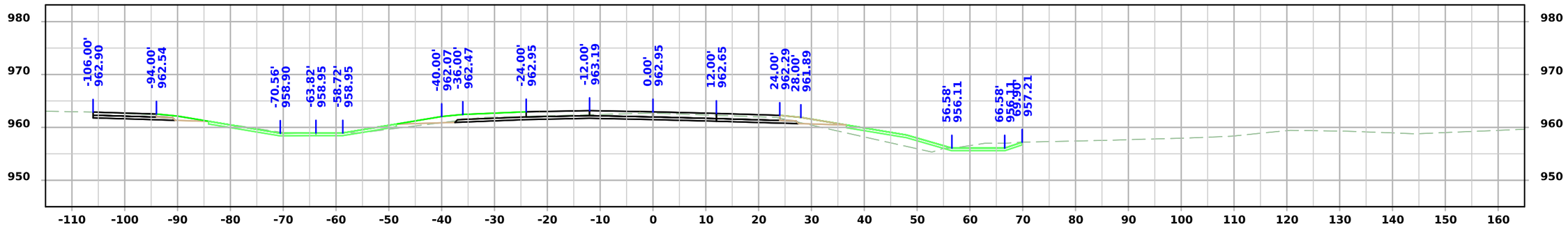
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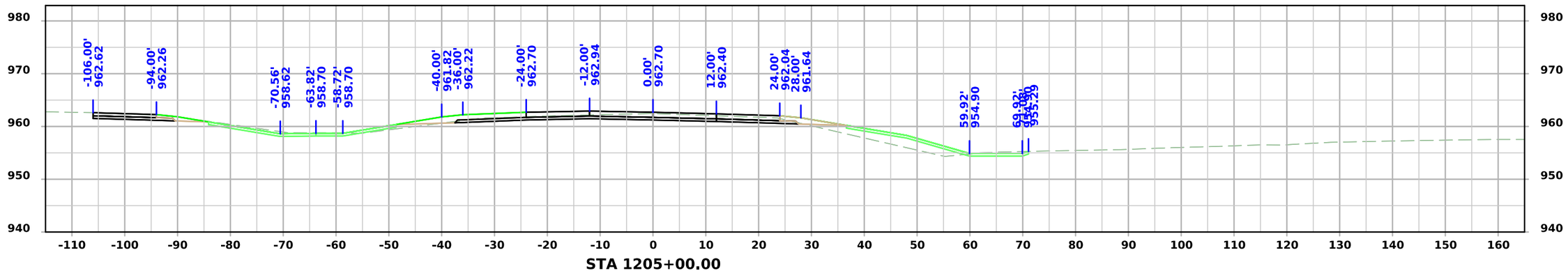
ML - I35 NB



STA 1206+00.00



STA 1205+50.00

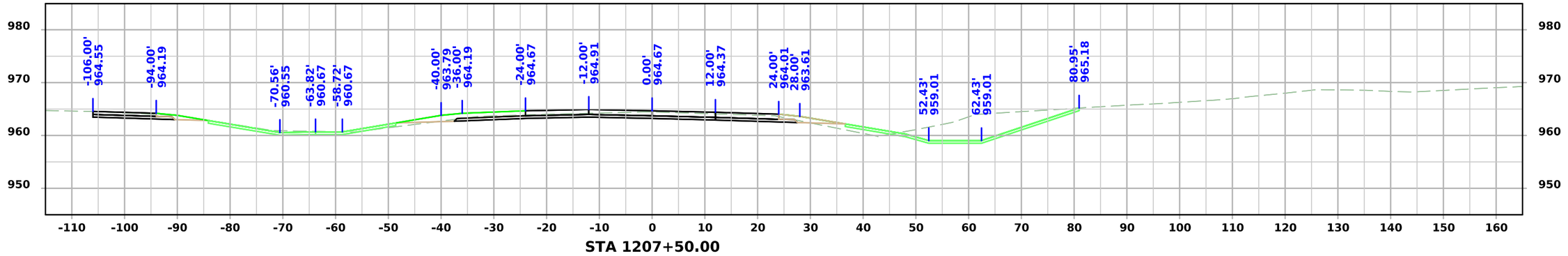


STA 1205+00.00

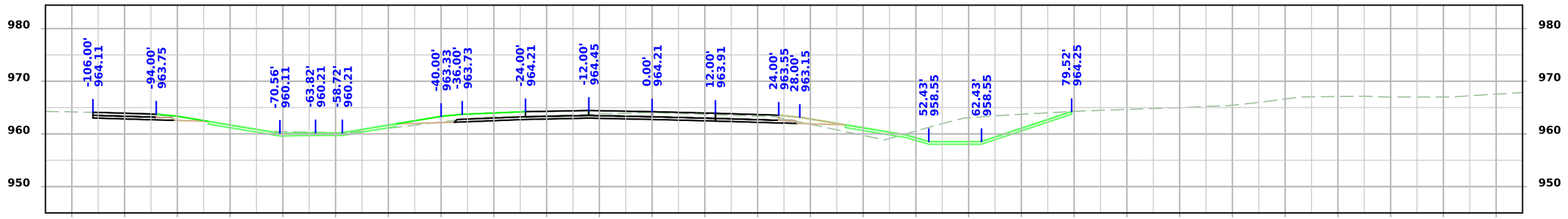
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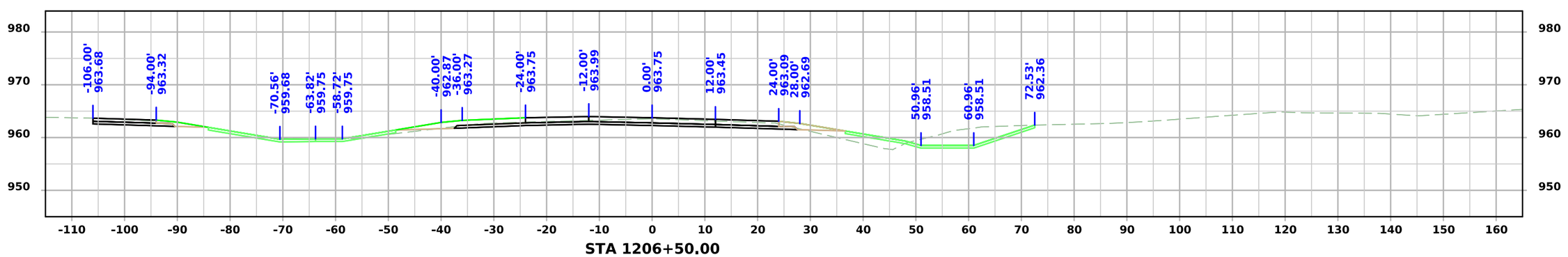
ML - I35 NB



STA 1207+50.00



STA 1207+00.00

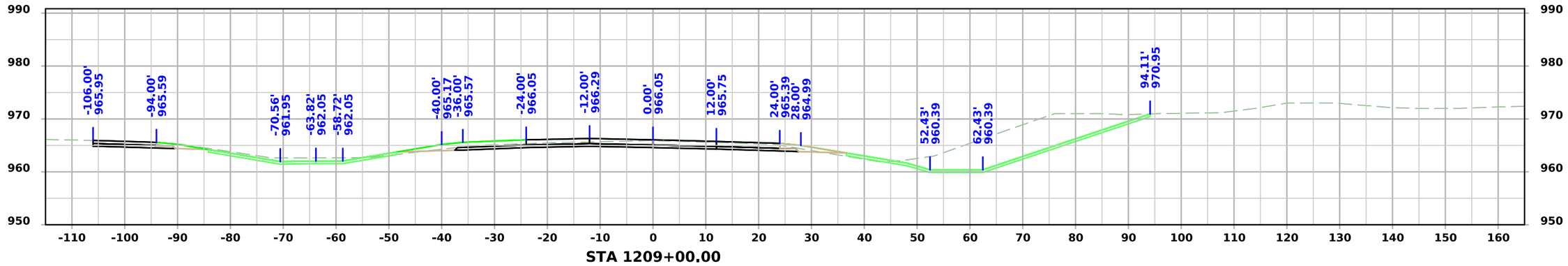


STA 1206+50.00

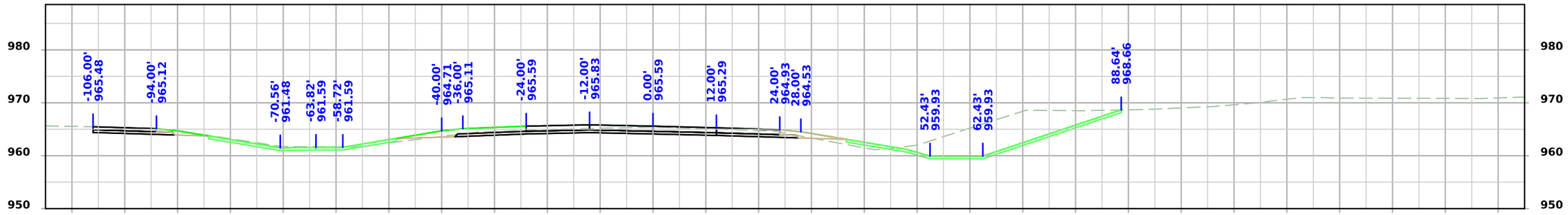
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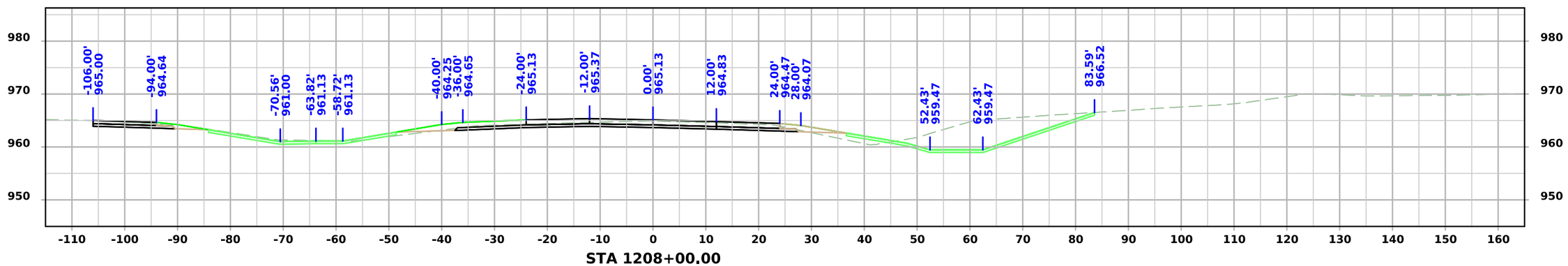
ML - I35 NB



STA 1209+00.00



STA 1208+50.00

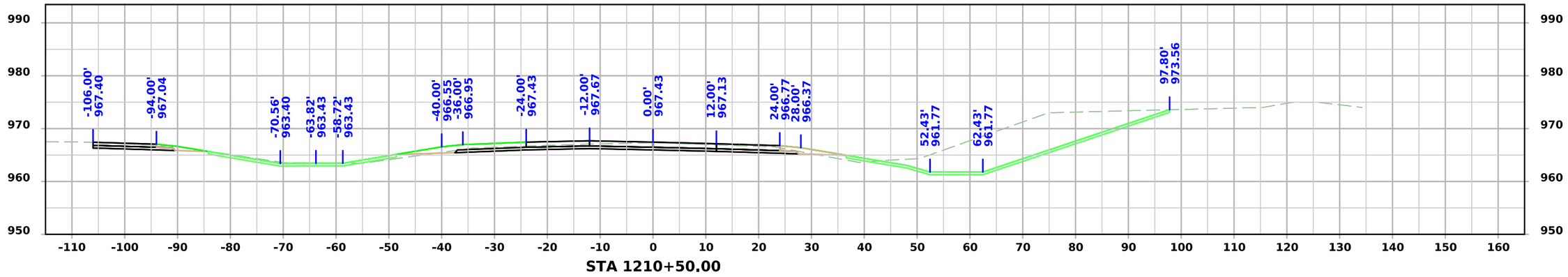


STA 1208+00.00

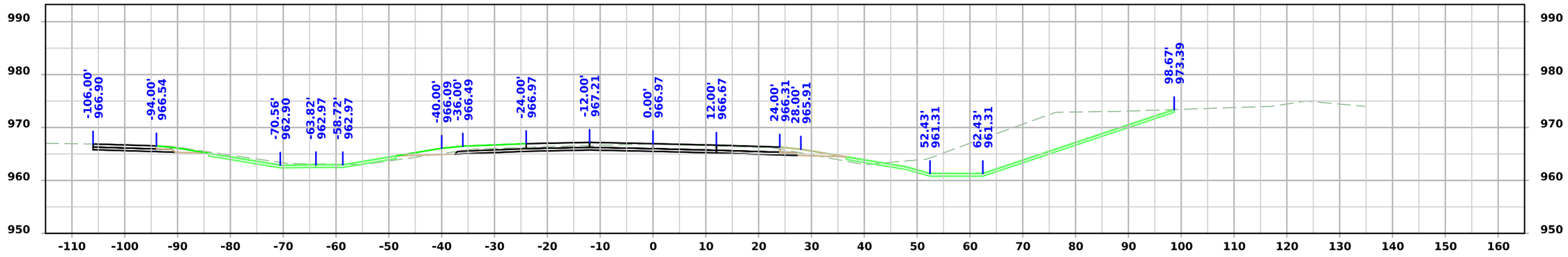
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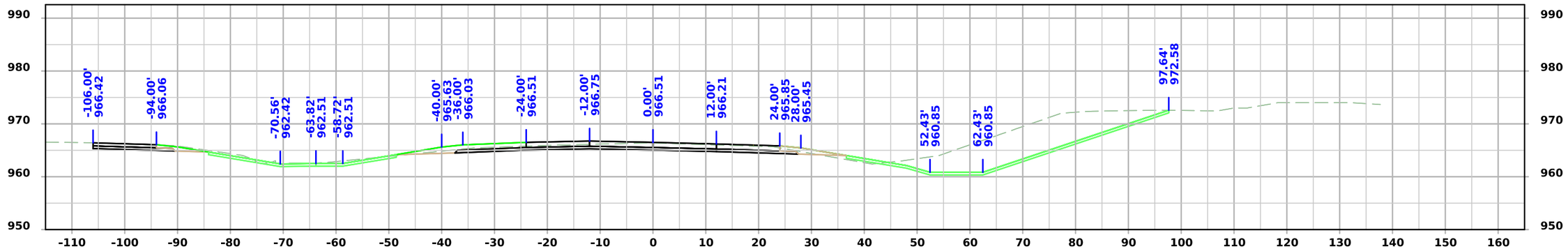
ML - I35 NB



STA 1210+50.00



STA 1210+00.00

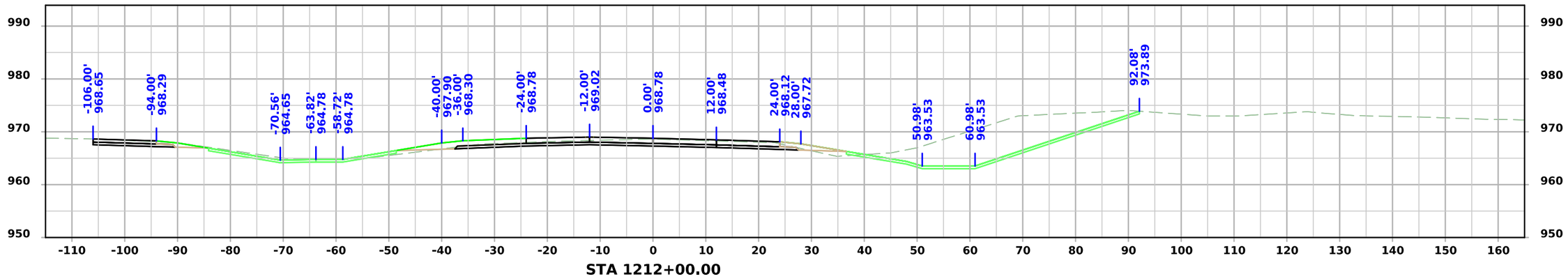


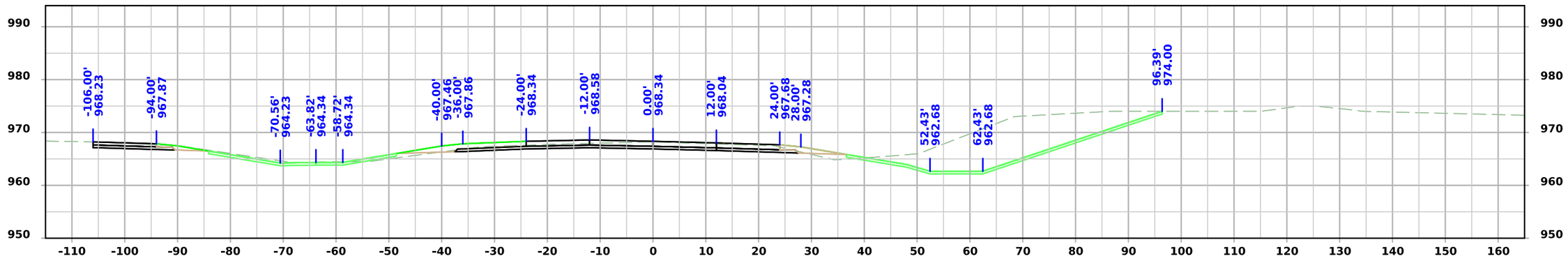
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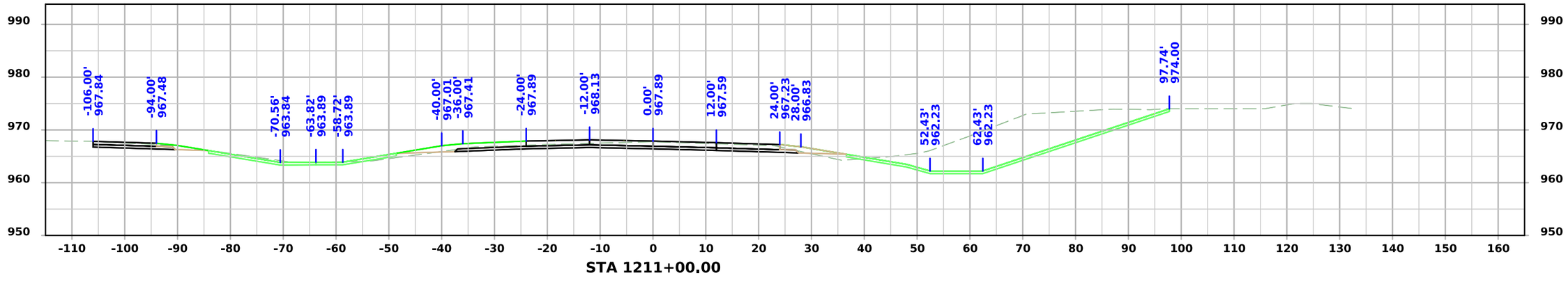
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ML - I35 NB



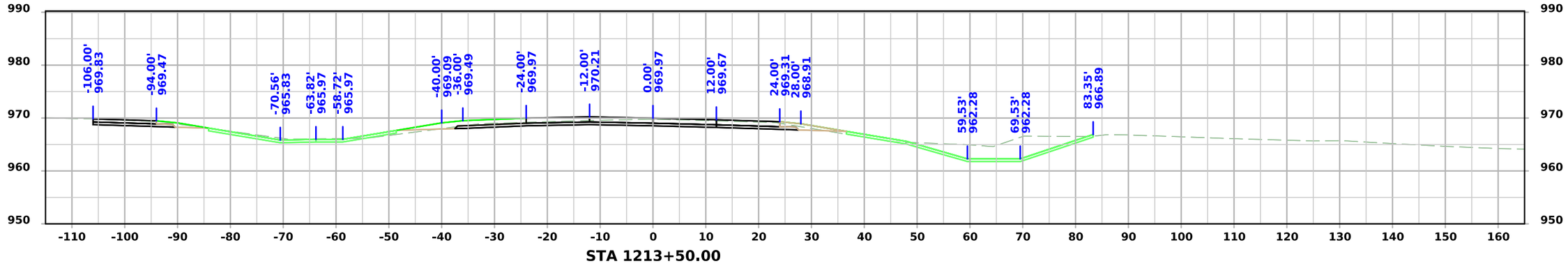




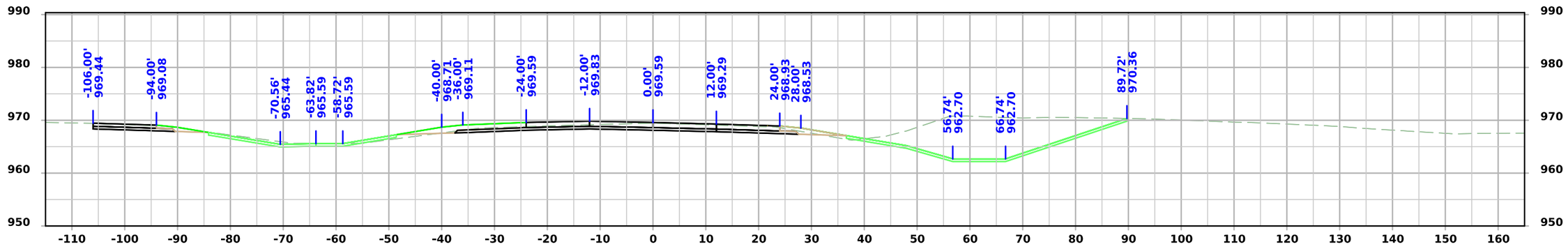
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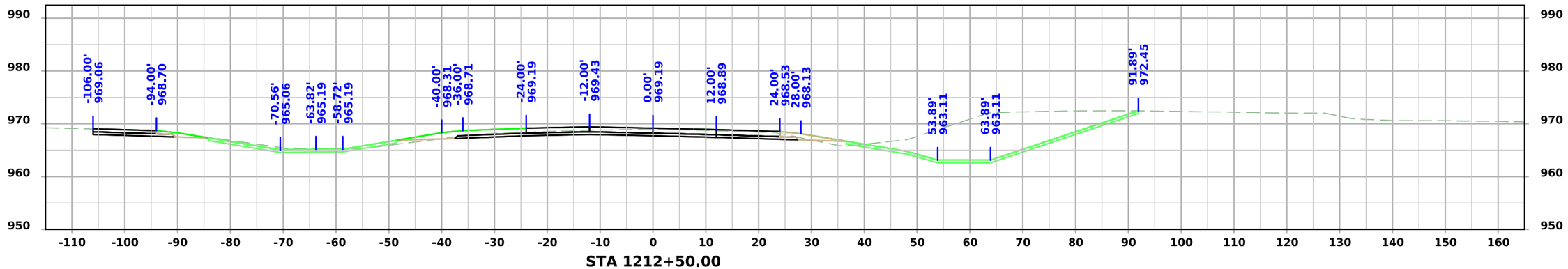
ML - I35 NB



STA 1213+50.00



STA 1213+00.00

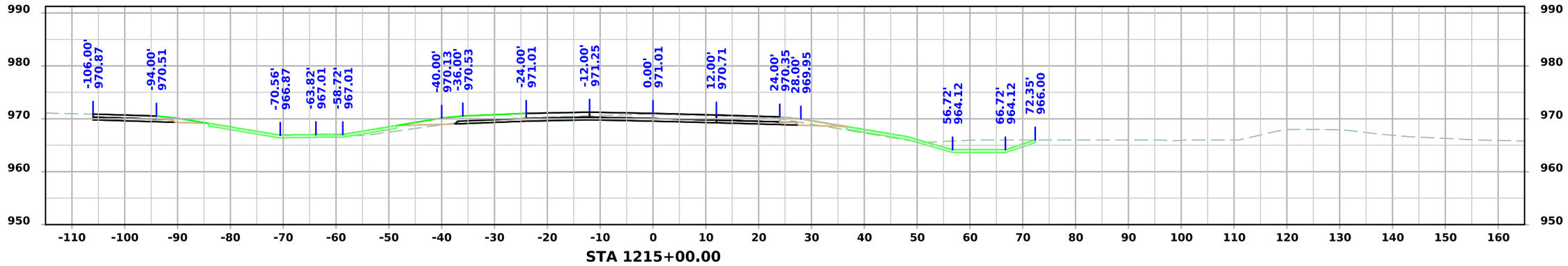


STA 1212+50.00

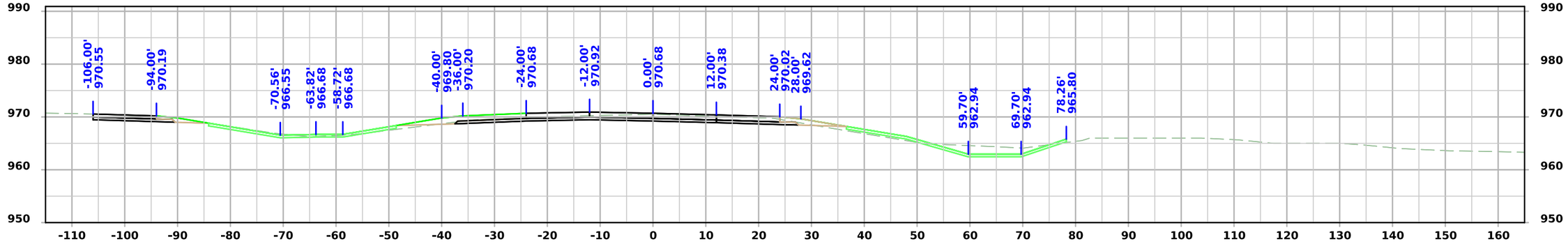
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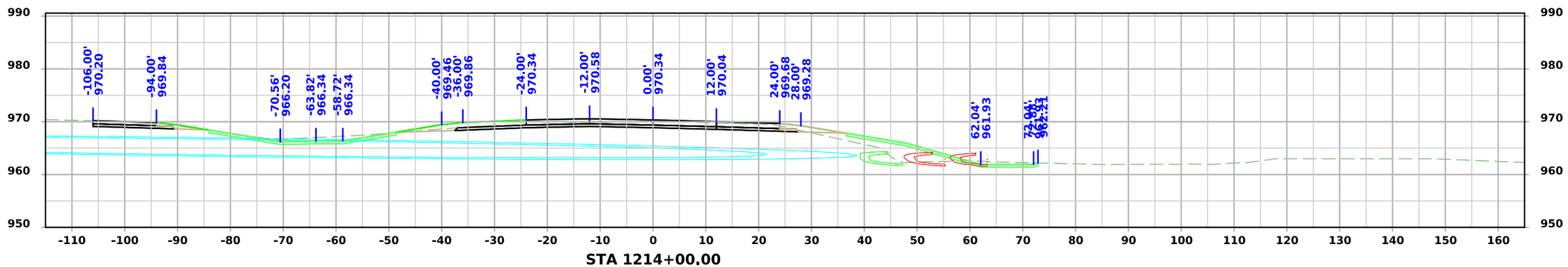
ML - I35 NB



STA 1215+00.00



STA 1214+50.00

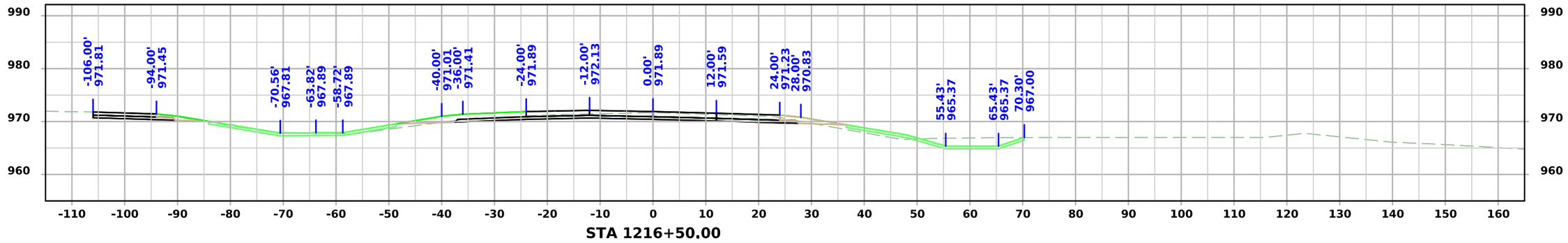


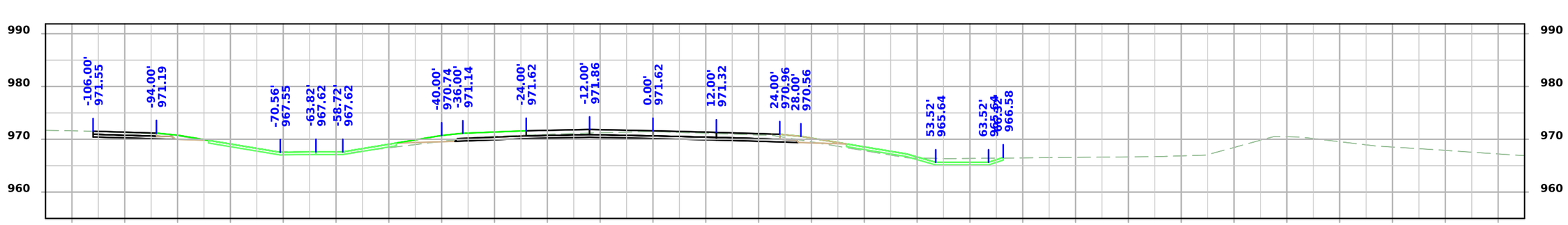
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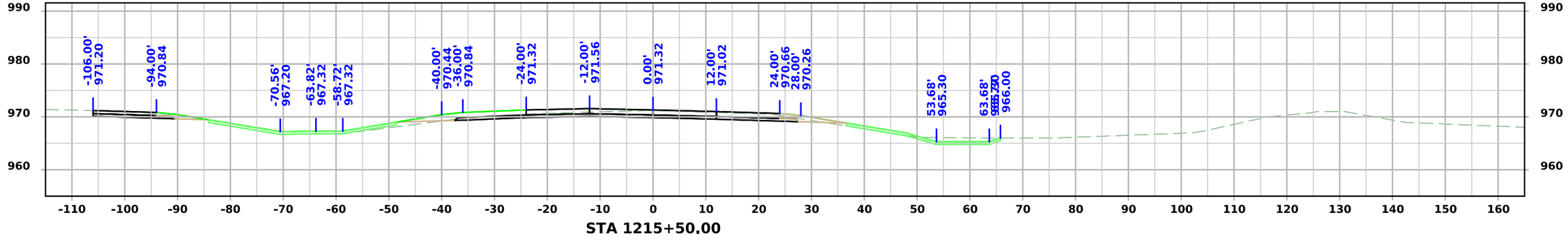
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ML - I35 NB



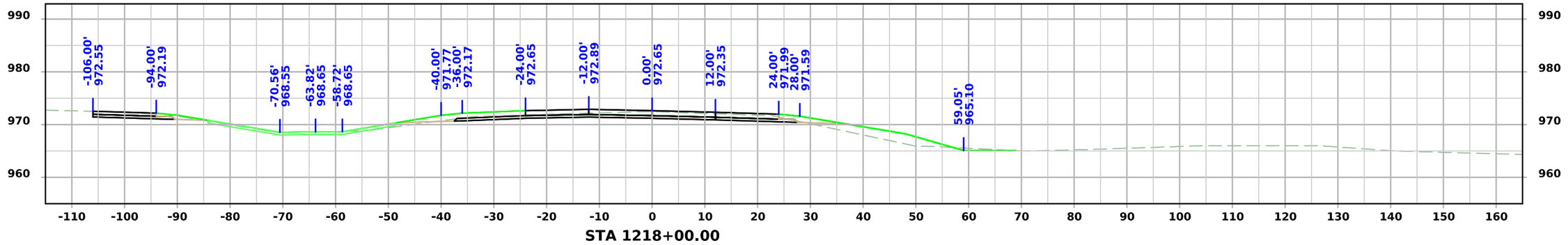




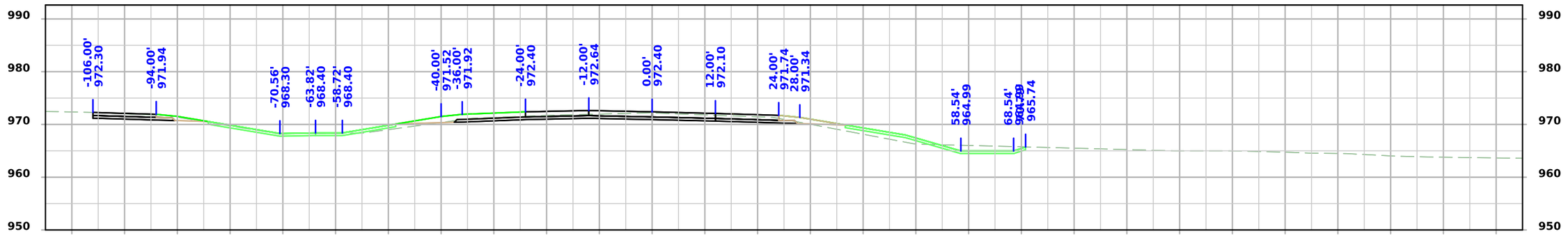
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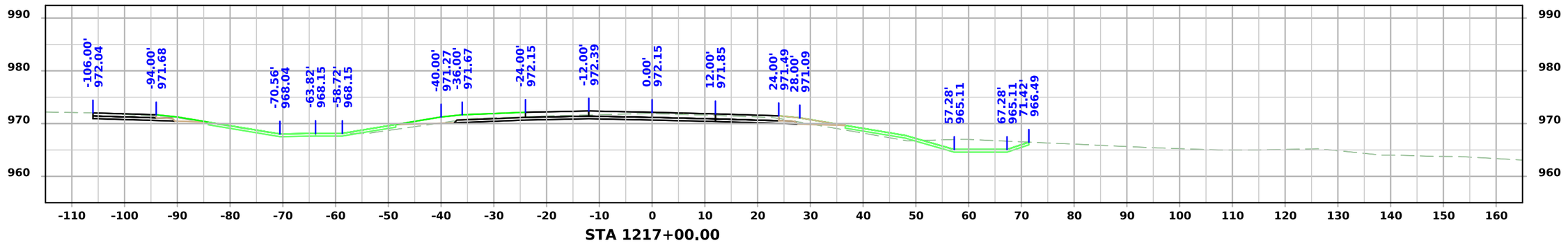
ML - I35 NB



STA 1218+00.00



STA 1217+50.00

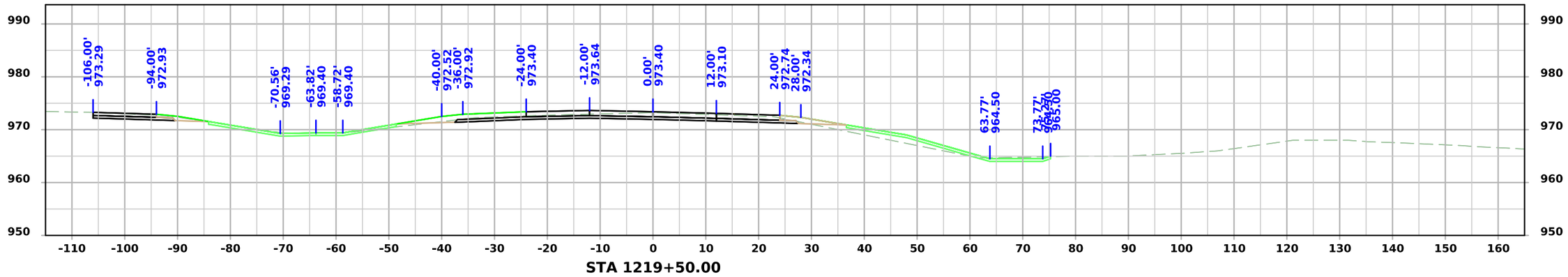


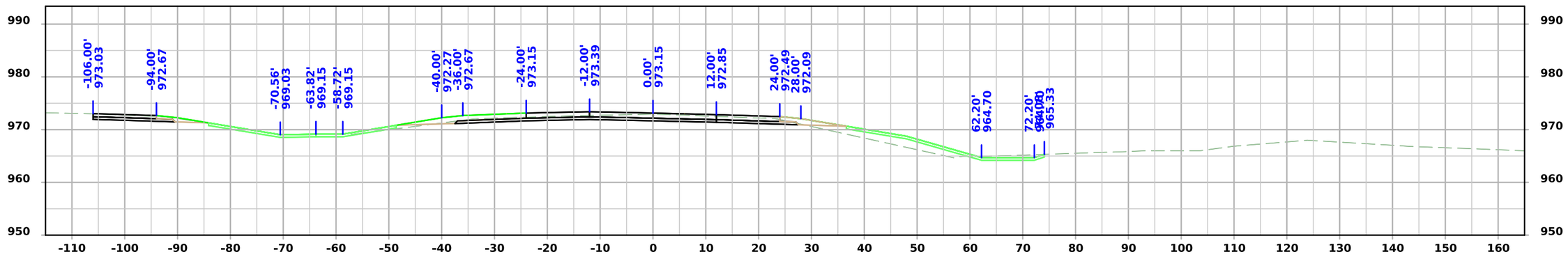
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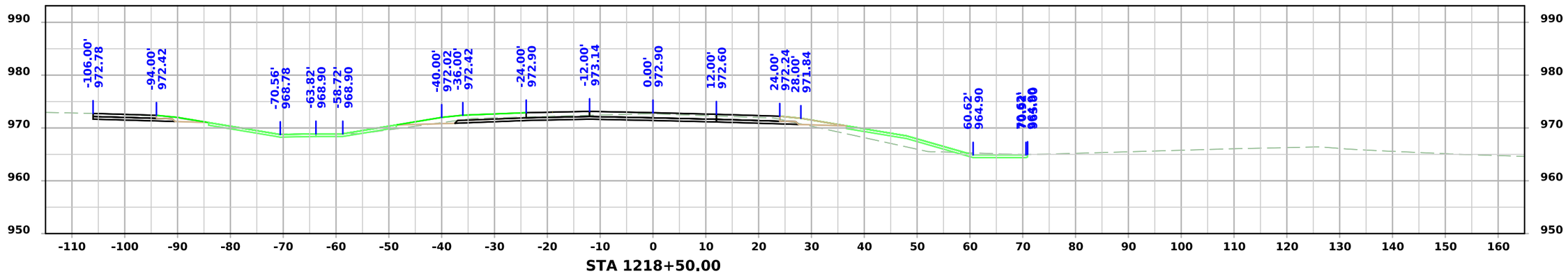
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ML - I35 NB



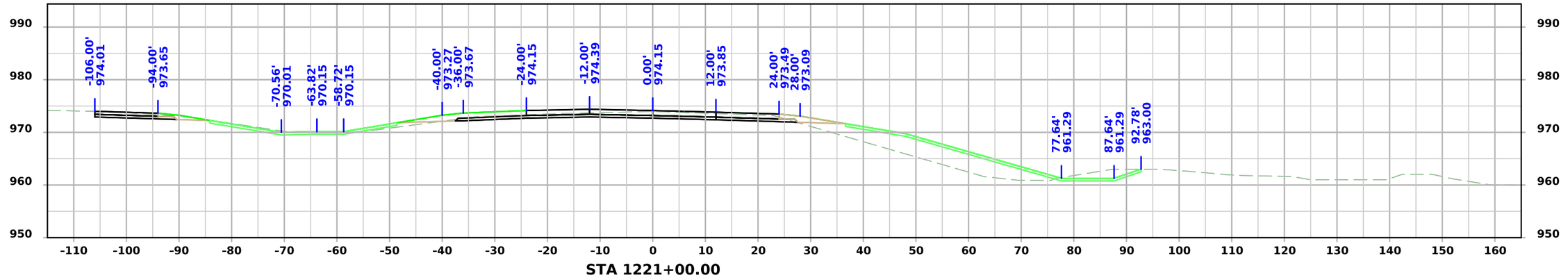




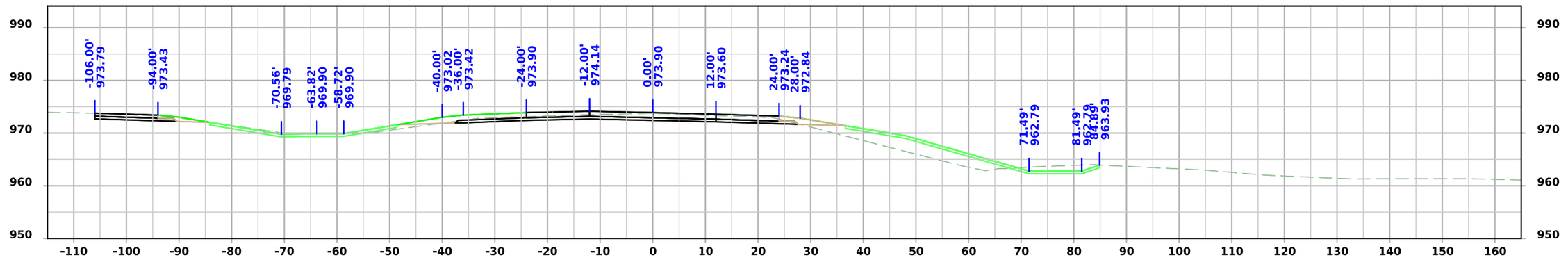
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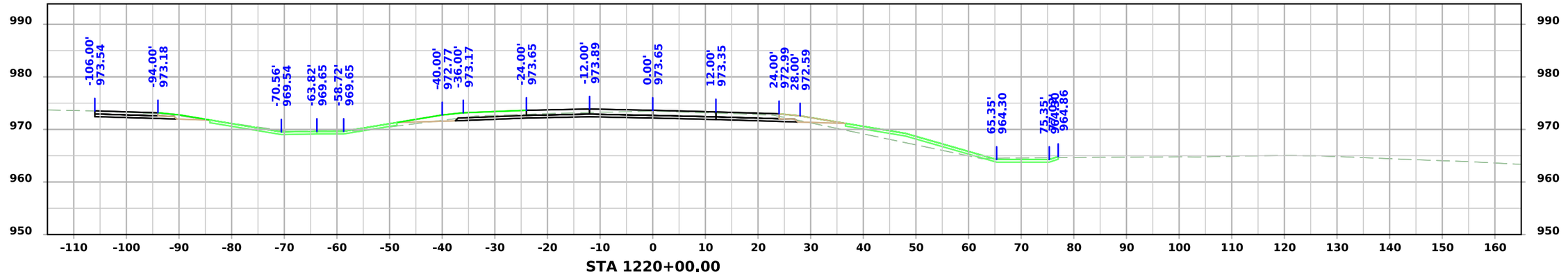
ML - I35 NB



STA 1221+00.00



STA 1220+50.00

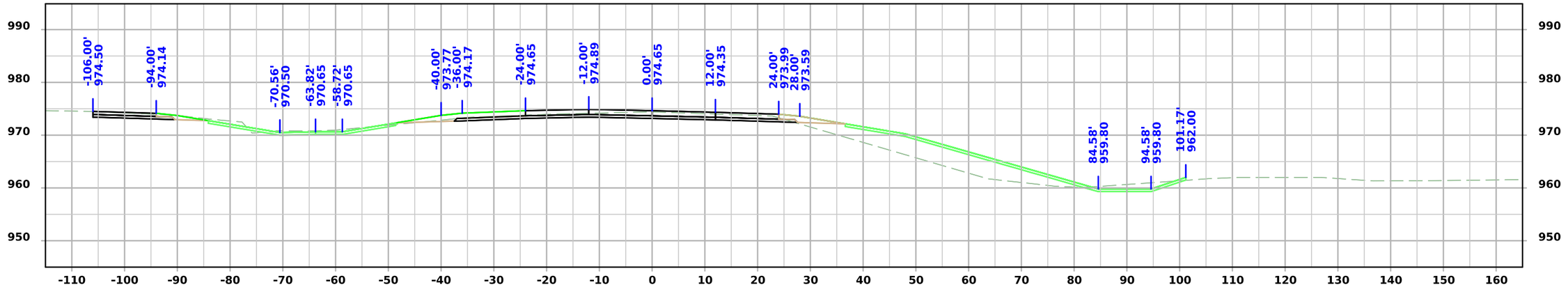


STA 1220+00.00

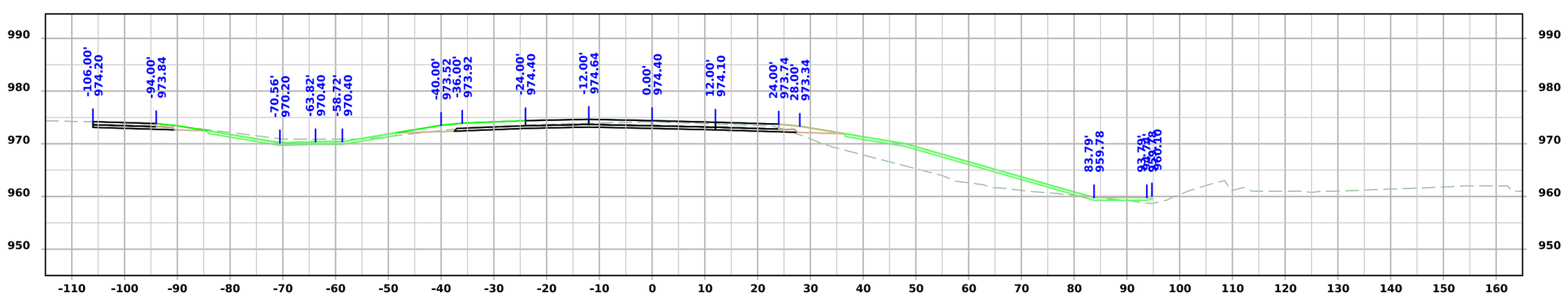
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ML - I35 NB



STA 1222+00.00

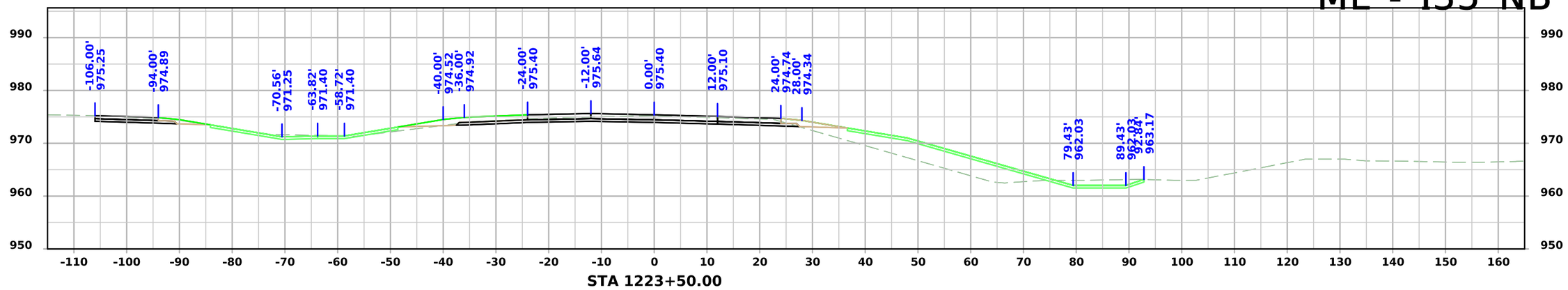


STA 1221+50.00

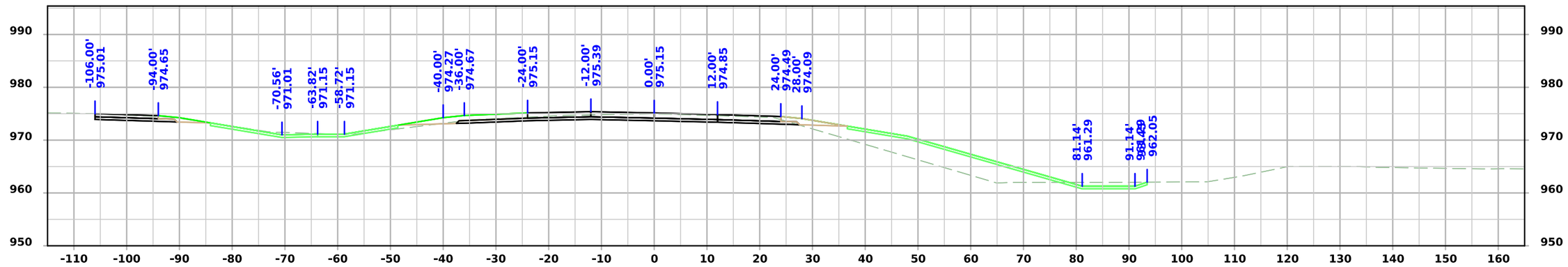
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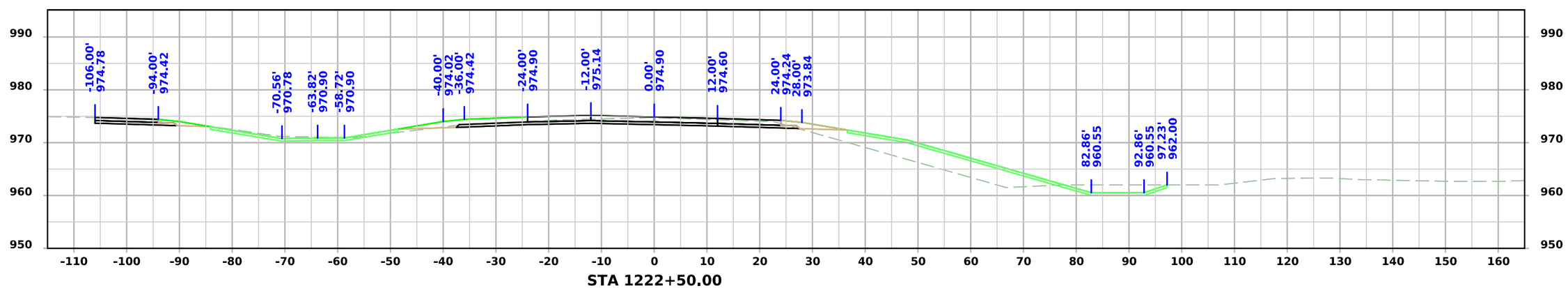
ML - I35 NB



STA 1223+50.00



STA 1223+00.00

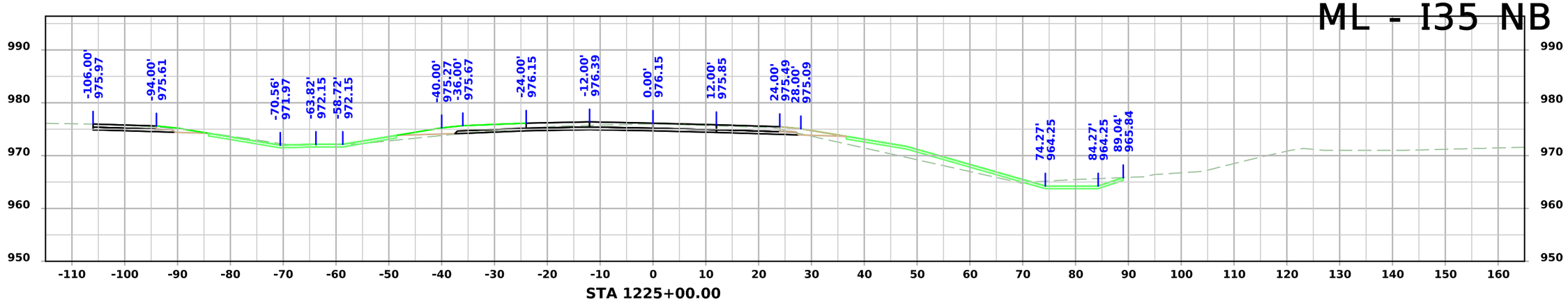


STA 1222+50.00

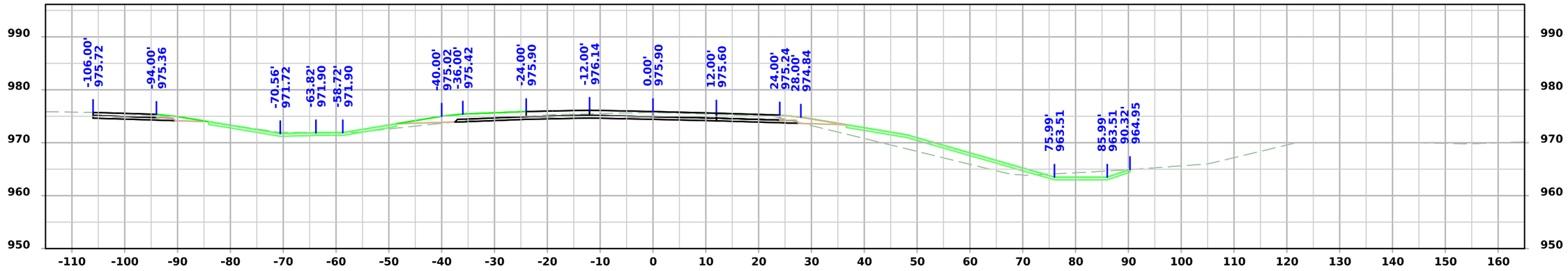
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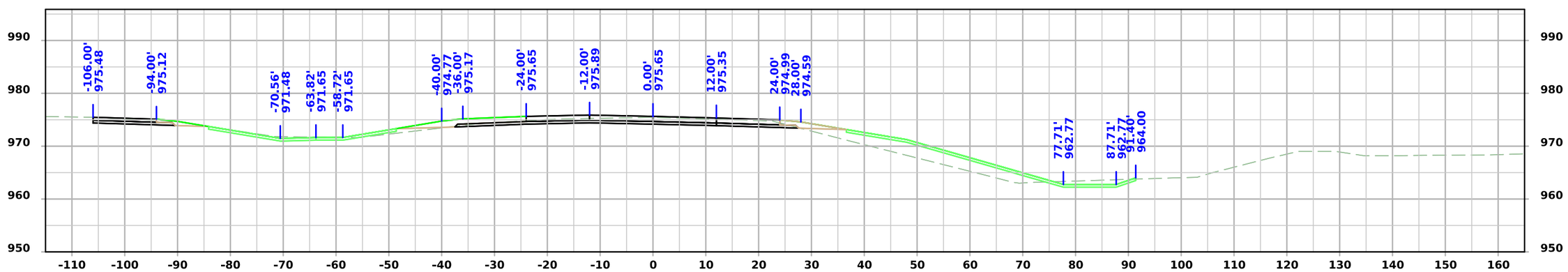
ML - I35 NB



STA 1225+00.00



STA 1224+50.00

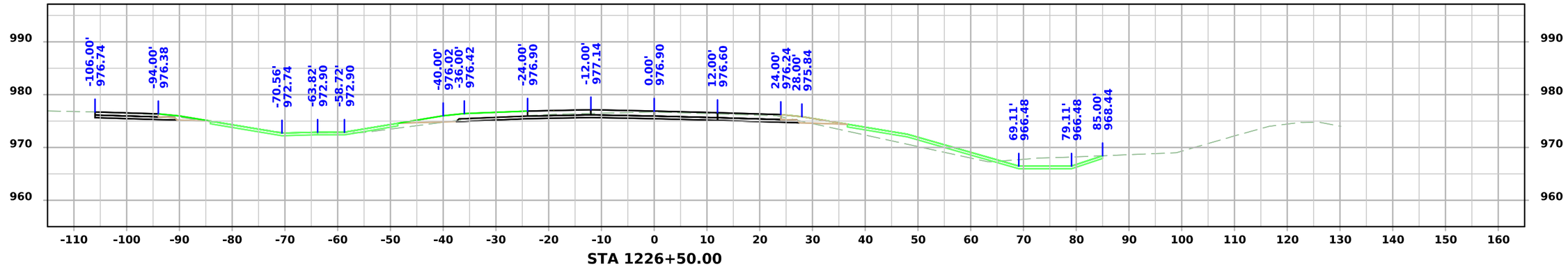


STA 1224+00.00

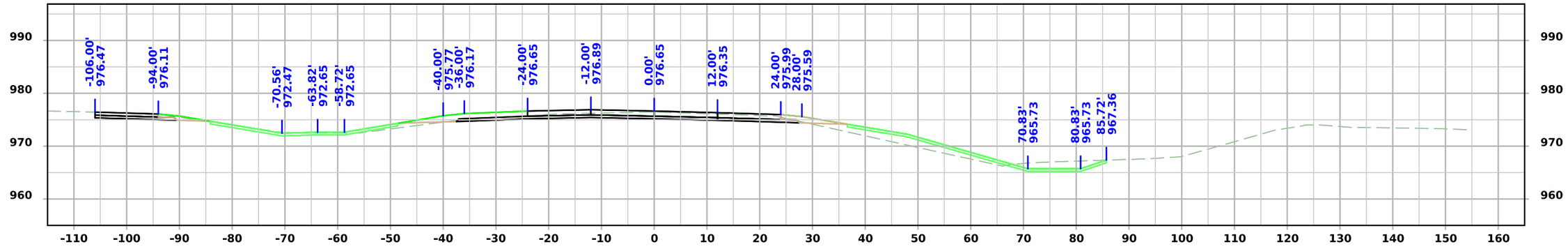
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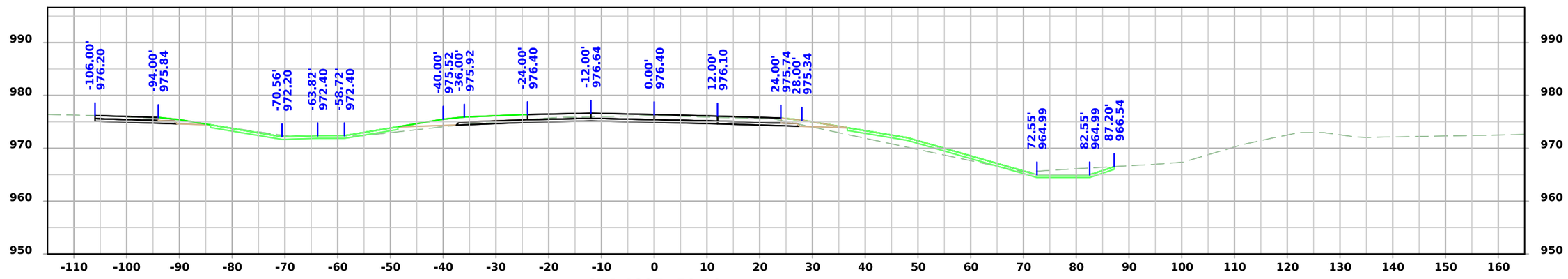
ML - I35 NB



STA 1226+50.00



STA 1226+00.00

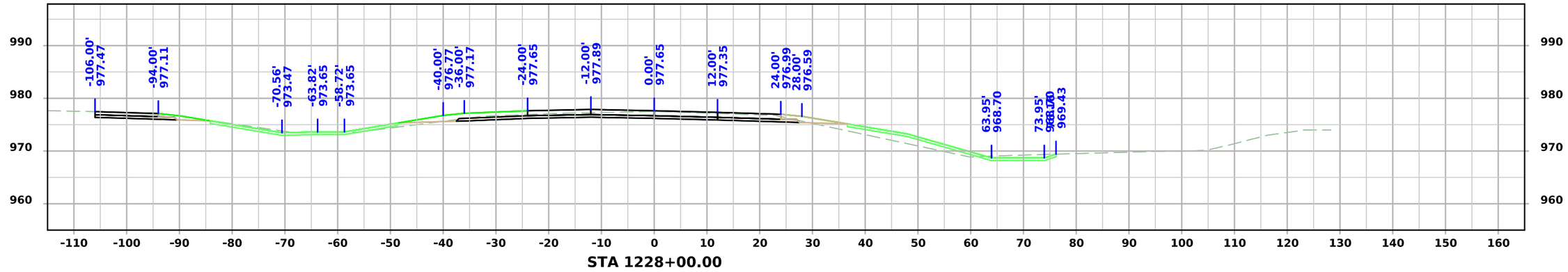


STA 1225+50.00

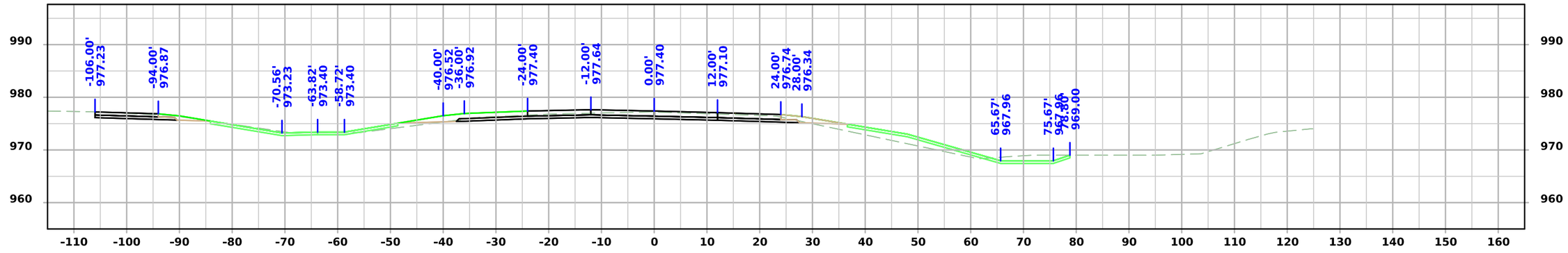
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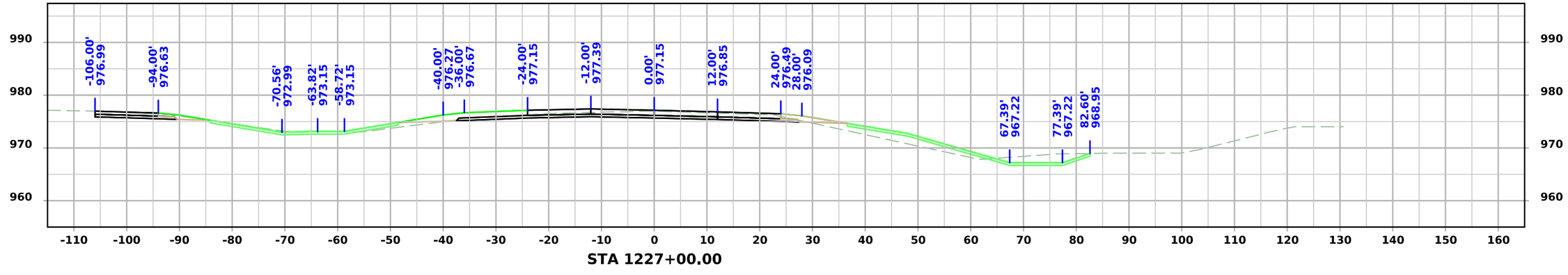
ML - I35 NB



STA 1228+00.00



STA 1227+50.00

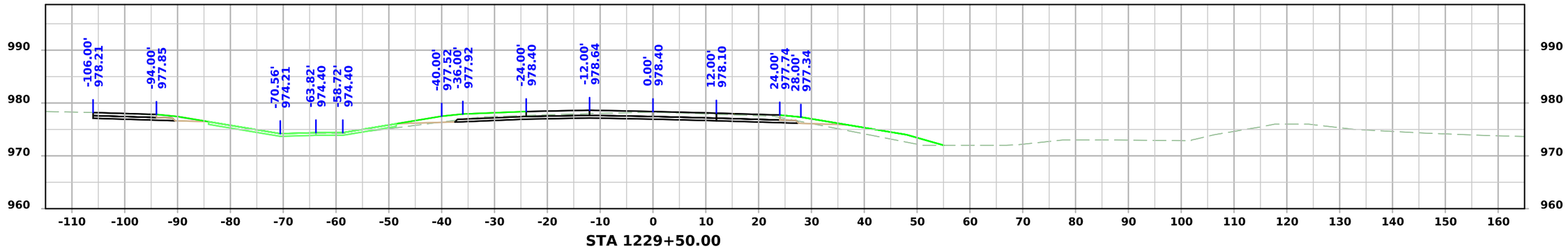


STA 1227+00.00

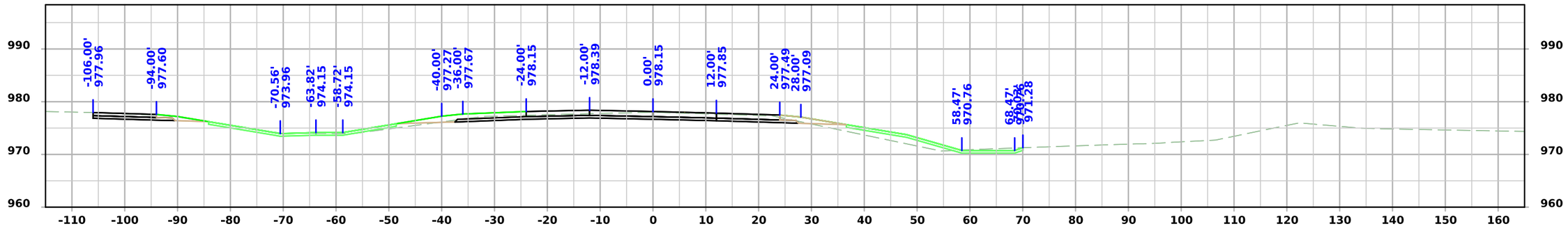
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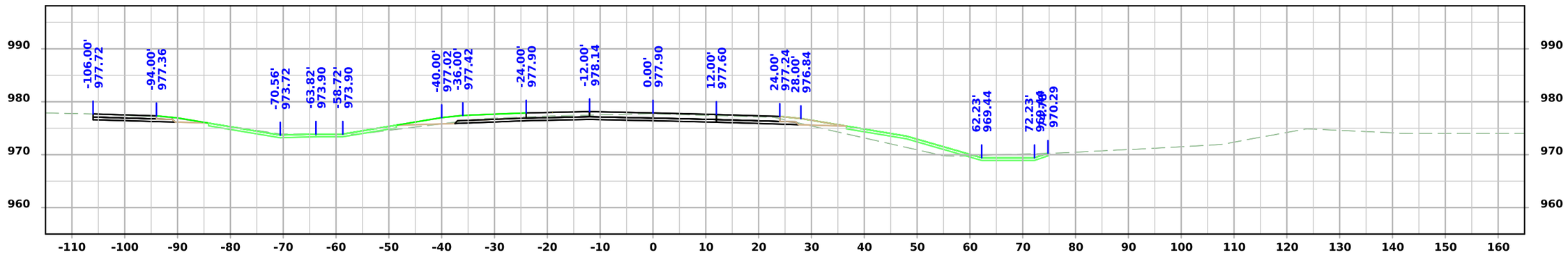
ML - I35 NB



STA 1229+50.00



STA 1229+00.00

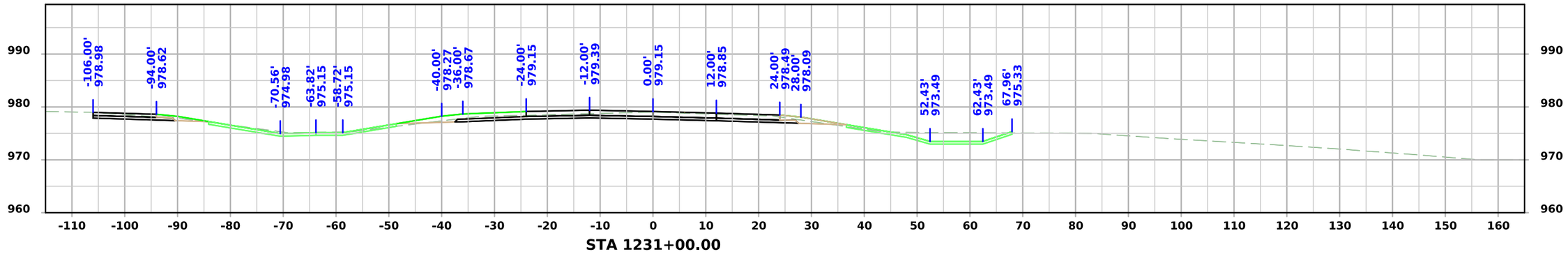


STA 1228+50.00

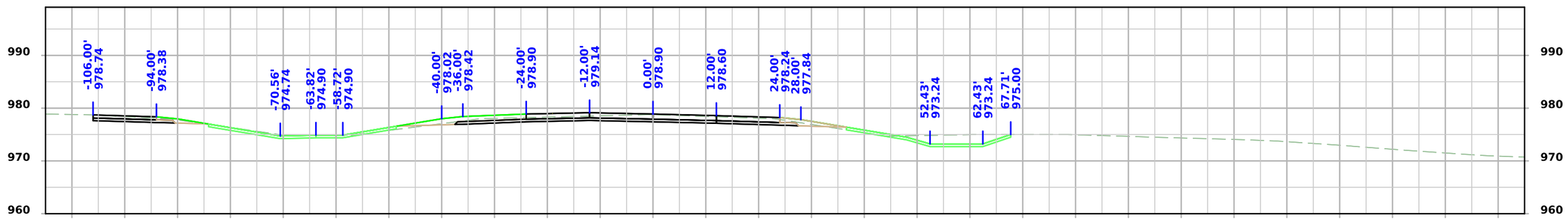
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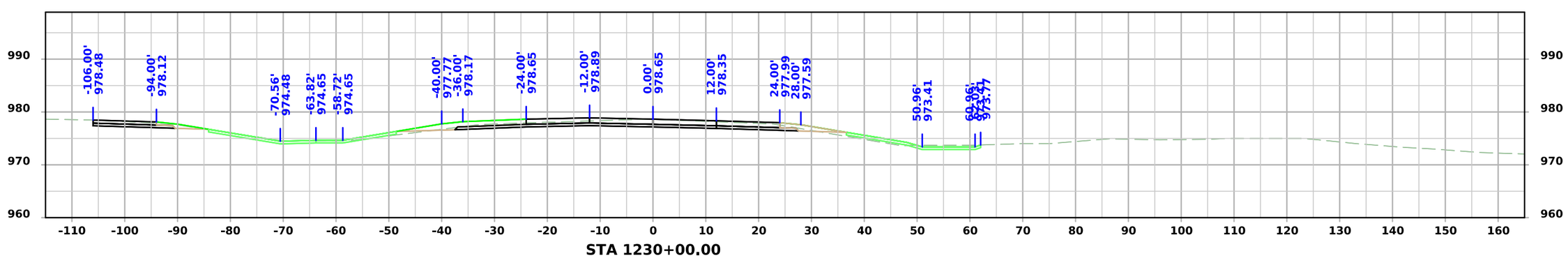
ML - I35 NB



STA 1231+00.00



STA 1230+50.00

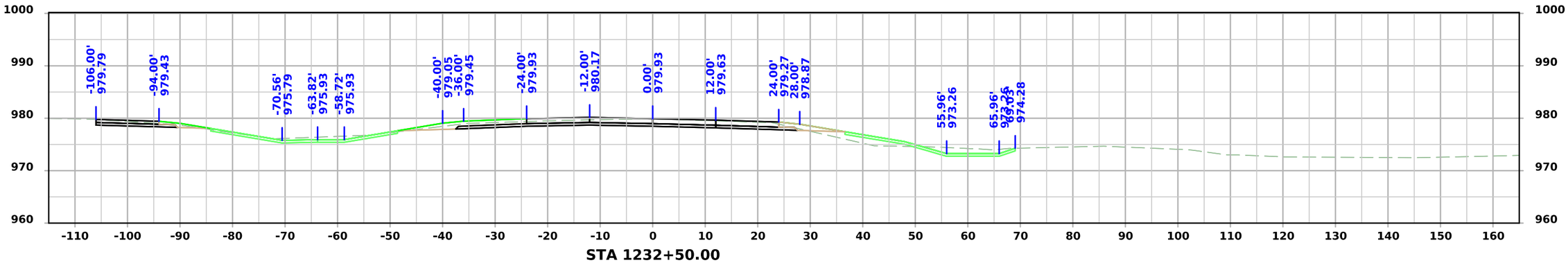


STA 1230+00.00

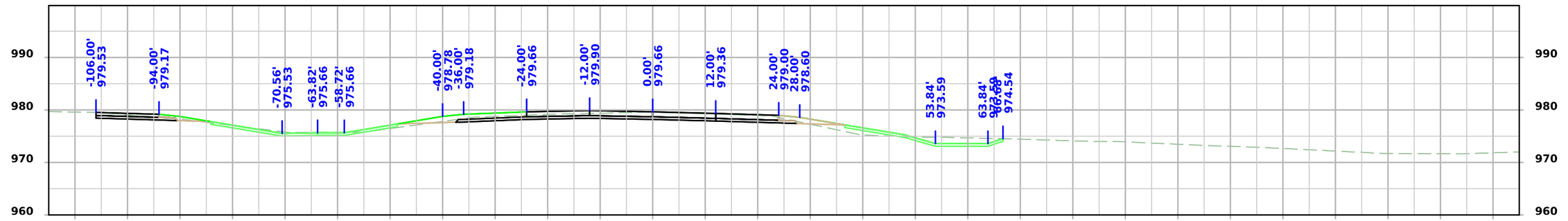
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1:19:00 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

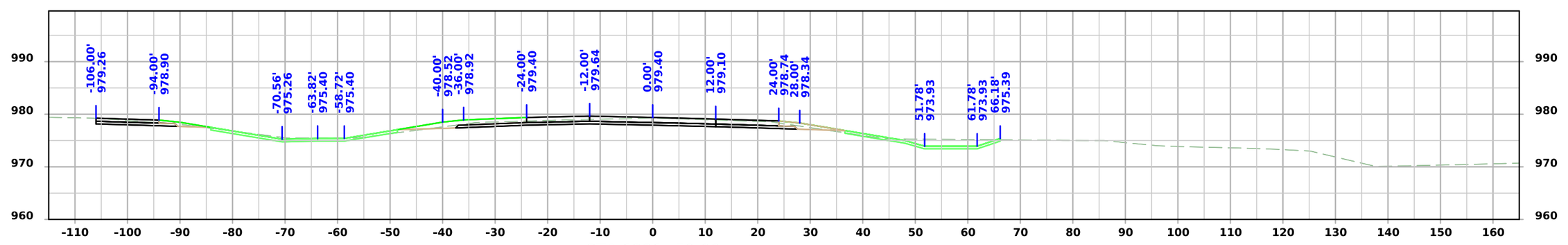
ML - I35 NB



STA 1232+50.00



STA 1232+00.00

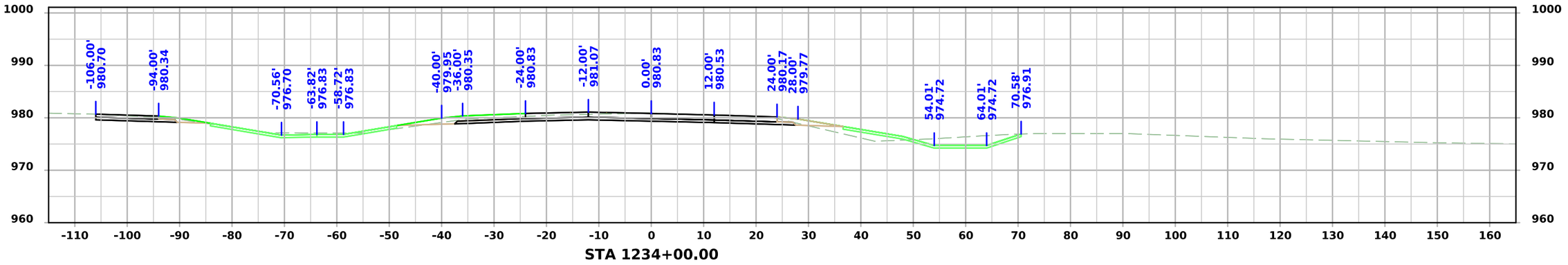


STA 1231+50.00

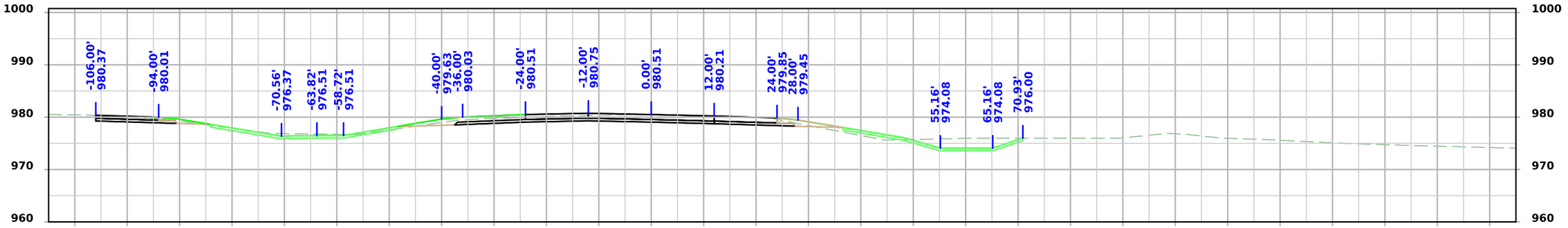
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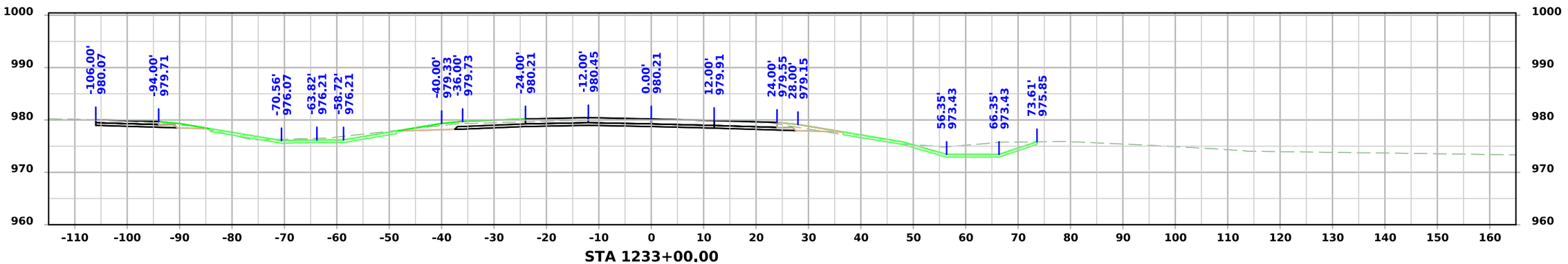
ML - I35 NB



STA 1234+00.00



STA 1233+50.00

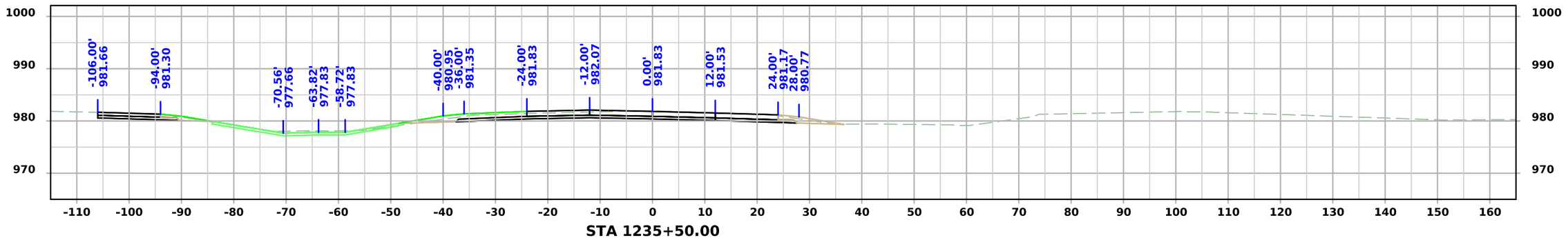


STA 1233+00.00

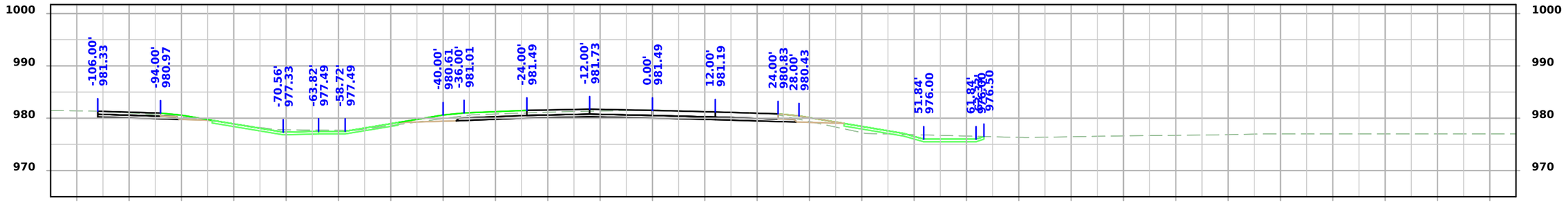
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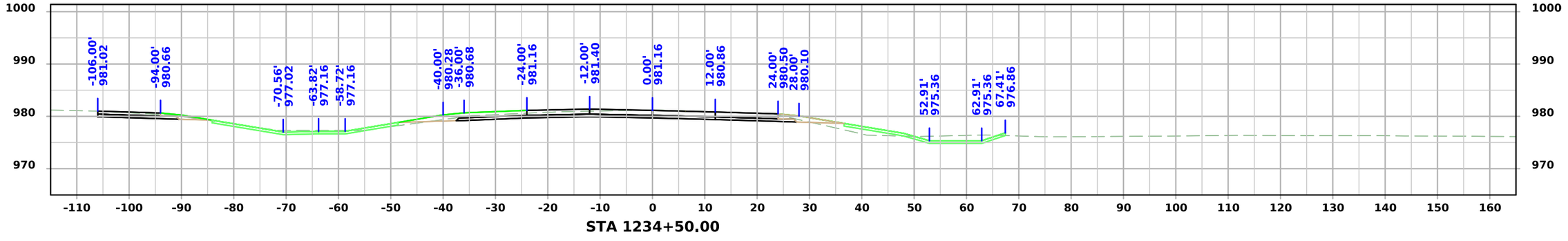
ML - I35 NB



STA 1235+00.00



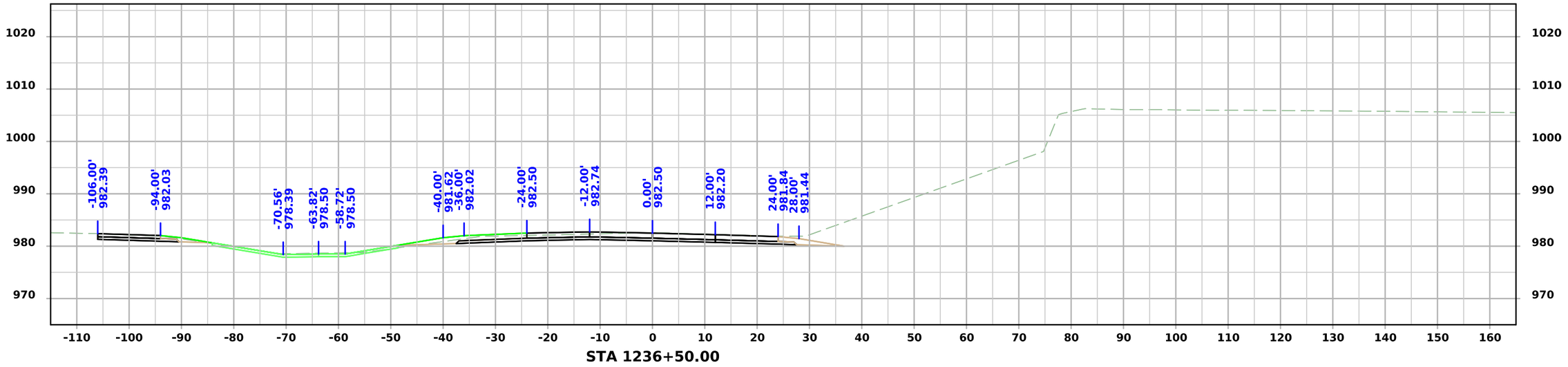
STA 1234+50.00



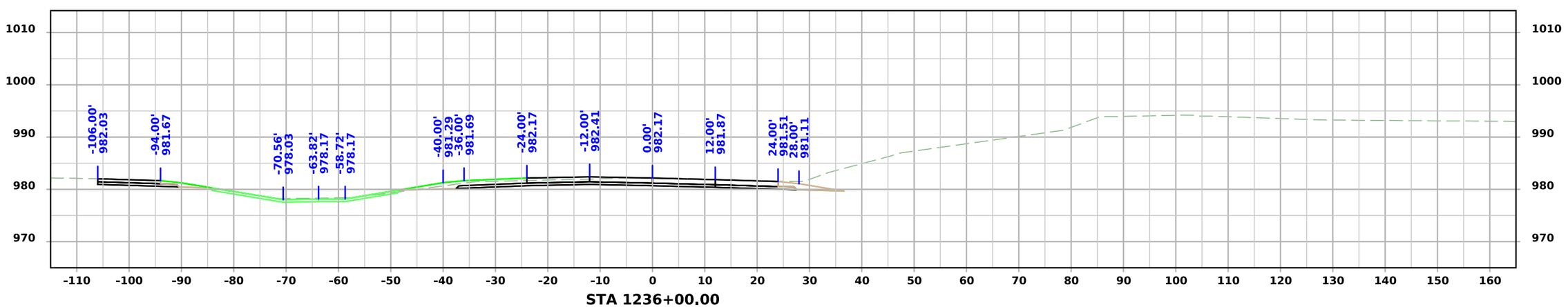
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ML - I35 NB



STA 1236+50.00

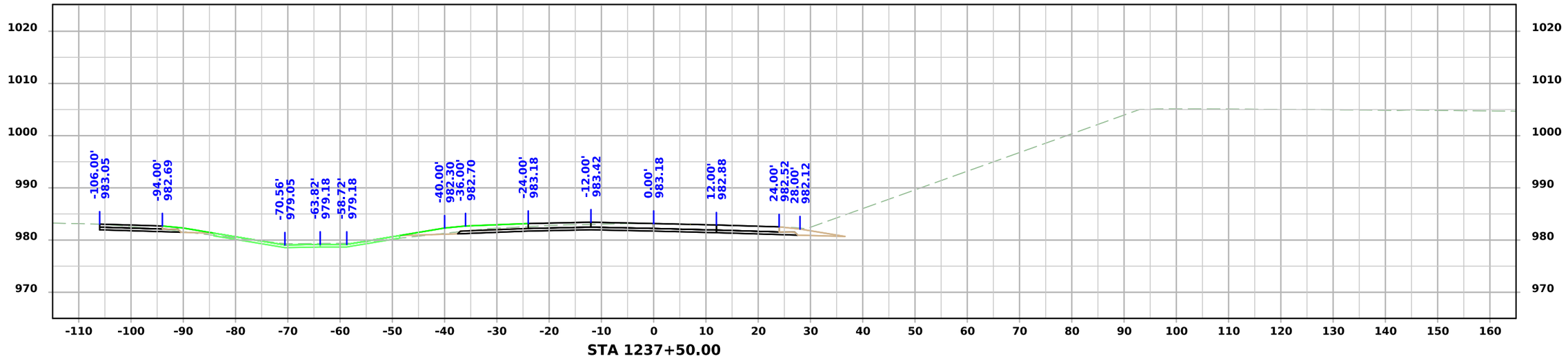


STA 1236+00.00

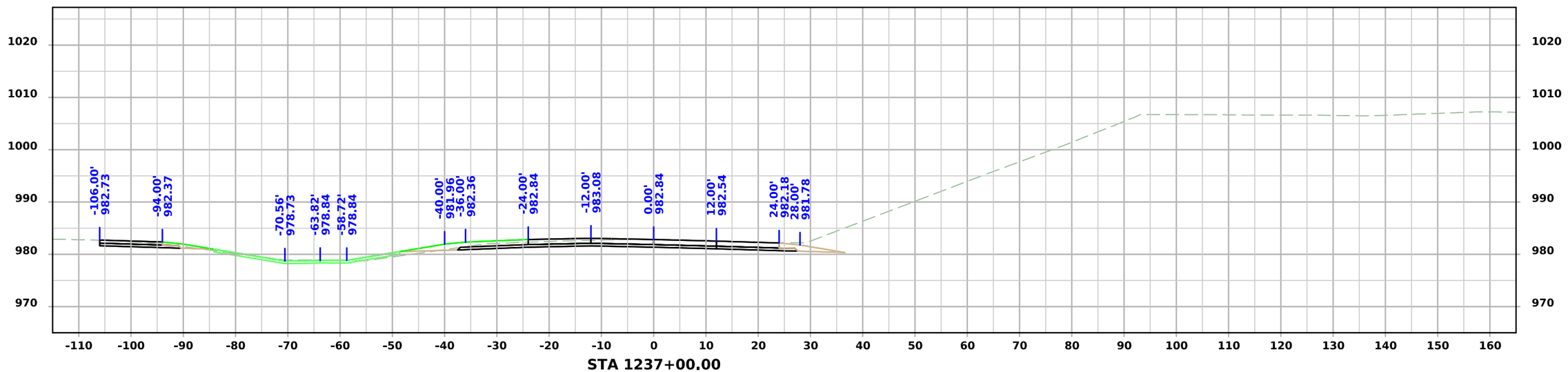
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.116

1:19:07 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1237+50.00

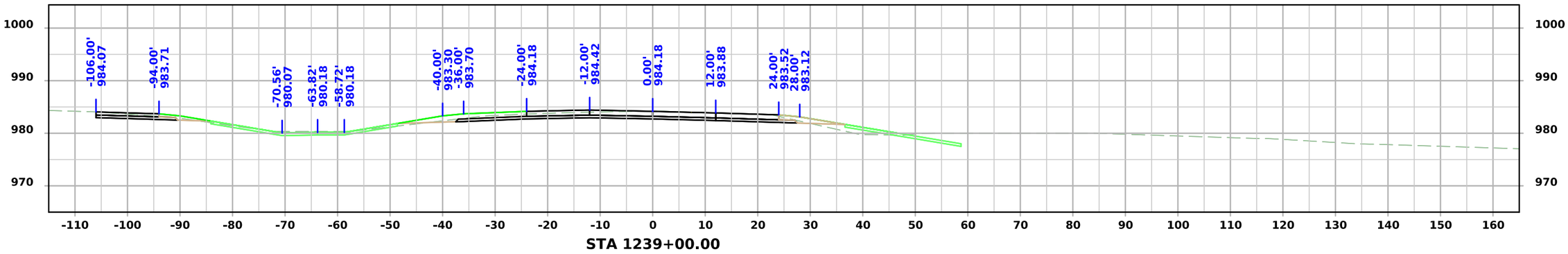


STA 1237+00.00

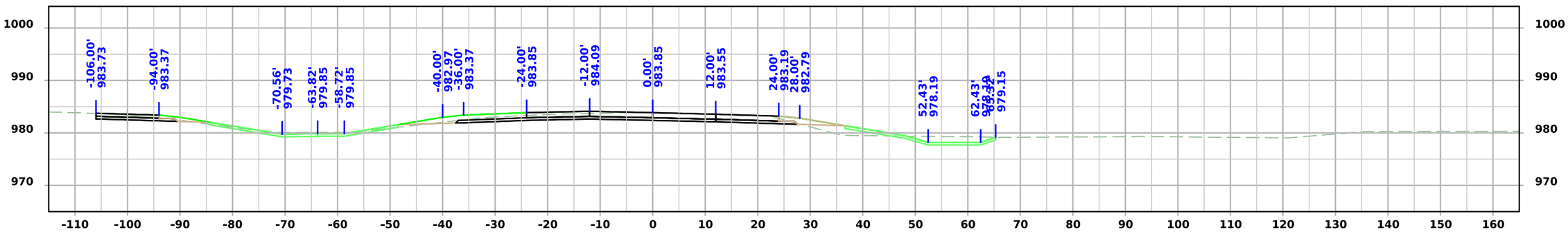
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.117

1:19:08 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

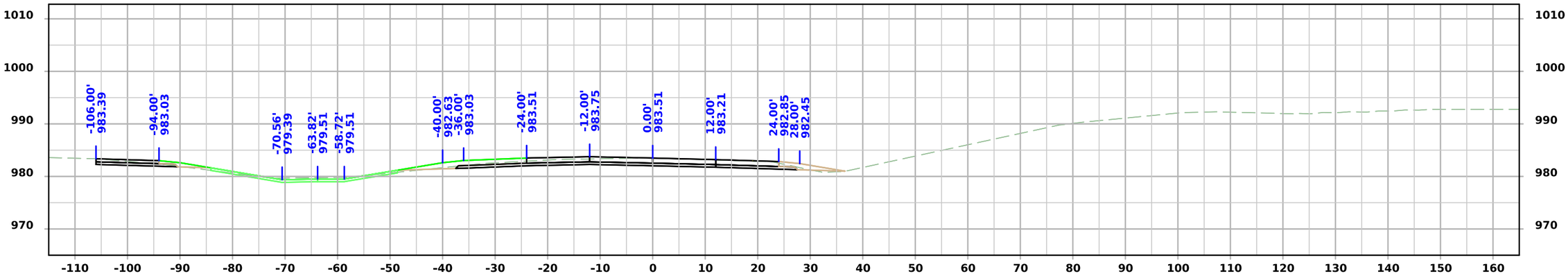
ML - I35 NB



STA 1239+00.00



STA 1238+50.00

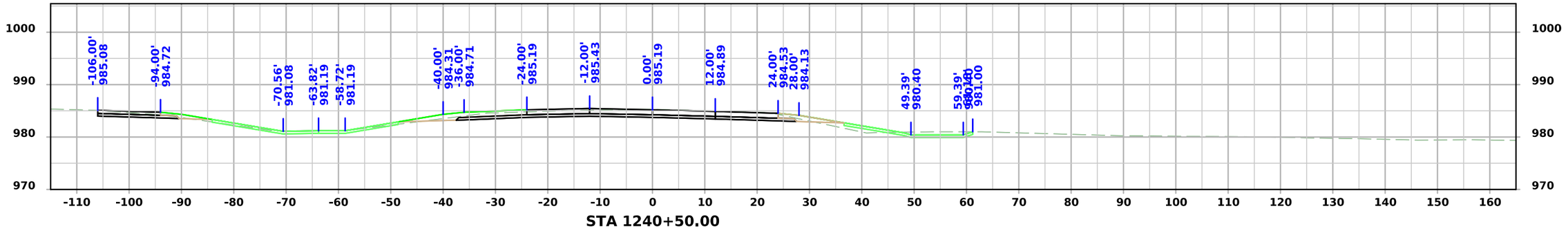


STA 1238+00.00

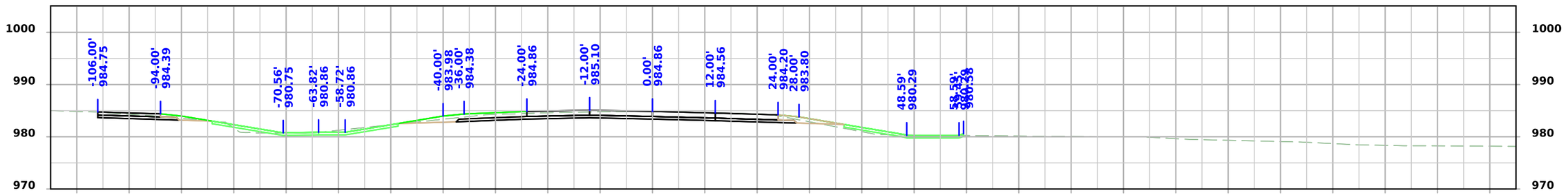
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.118

1:19:10 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

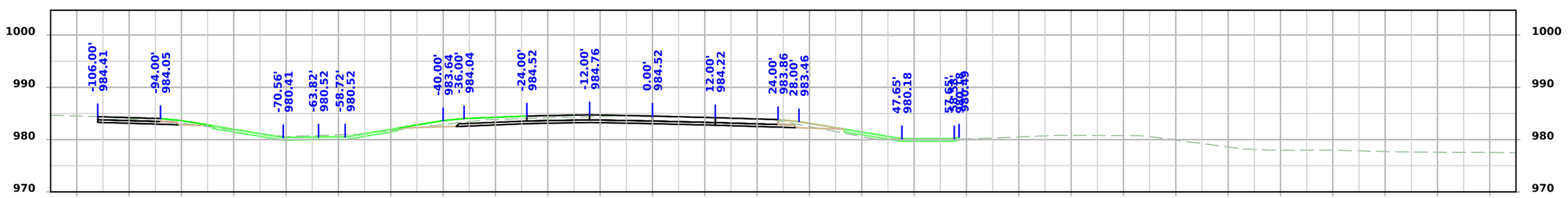
ML - I35 NB



STA 1240+50.00



STA 1240+00.00

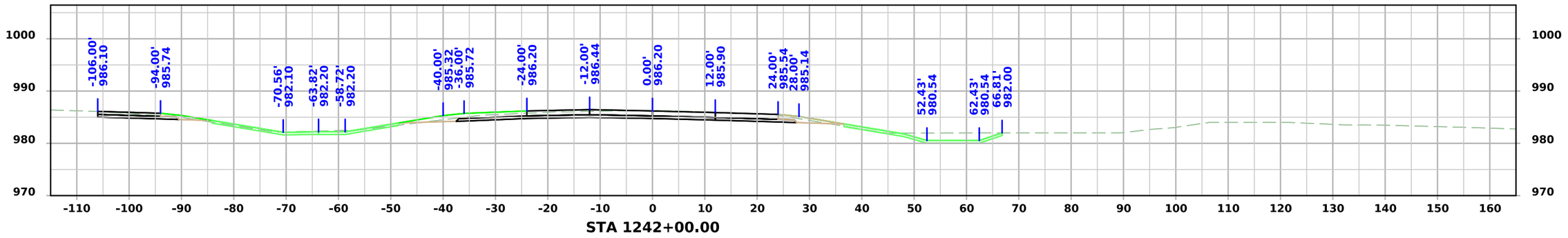


STA 1239+50.00

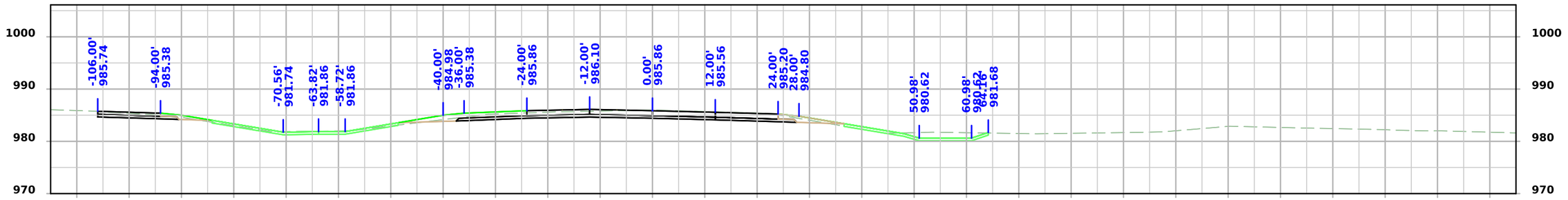
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.119

1:19:12 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

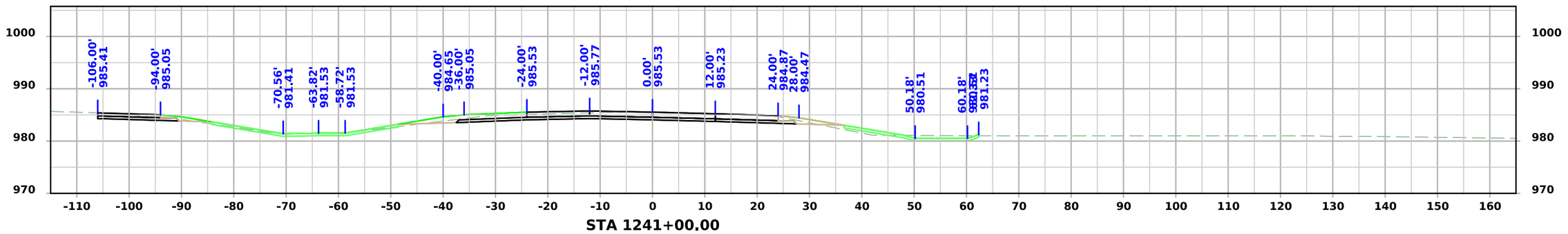
ML - I35 NB



STA 1242+00.00



STA 1241+50.00

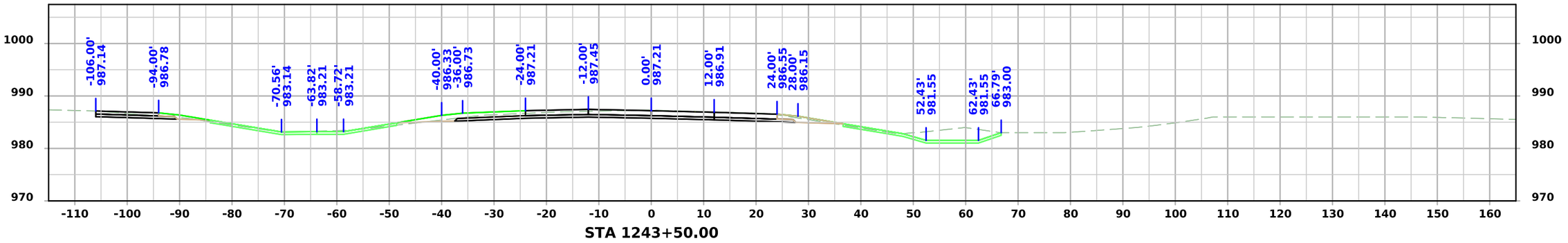


STA 1241+00.00

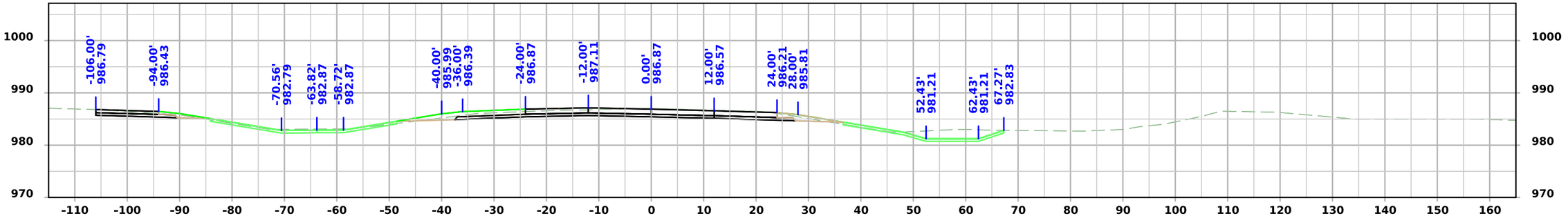
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1:19:14 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

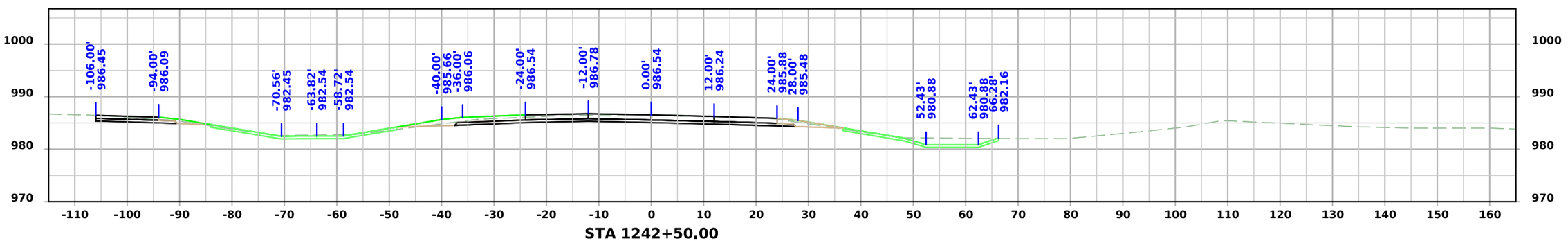
ML - I35 NB



STA 1243+50.00



STA 1243+00.00

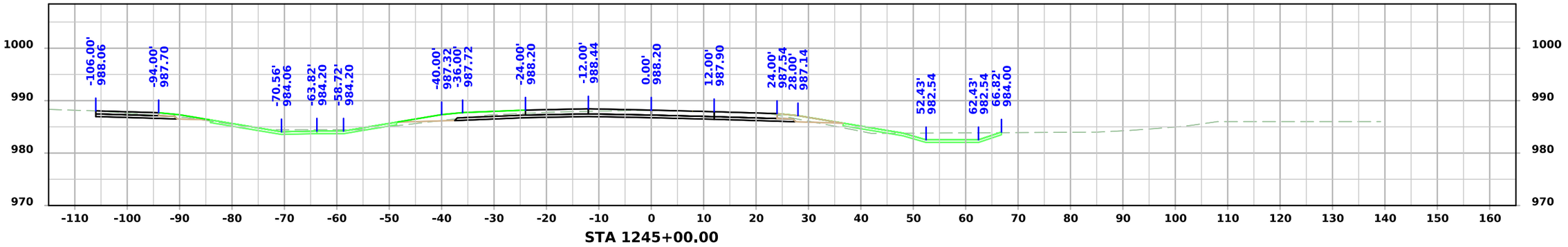


STA 1242+50.00

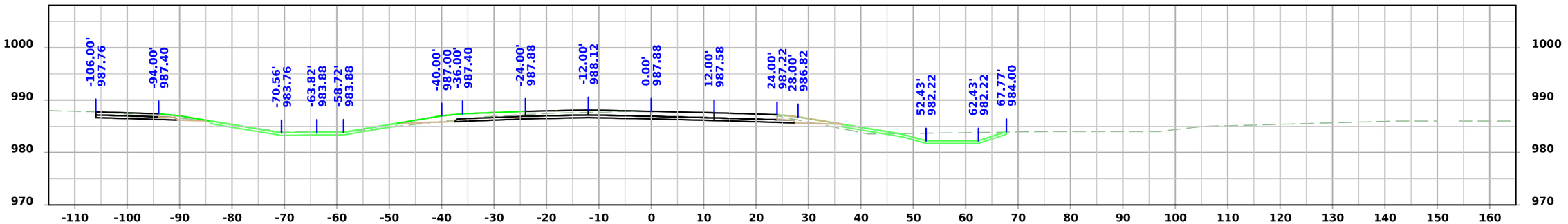
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.121

1:19:15 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

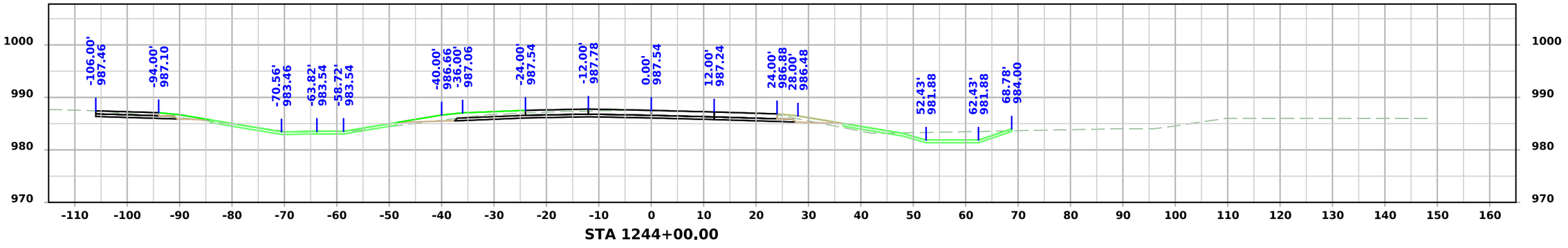
ML - I35 NB



STA 1245+00.00



STA 1244+50.00

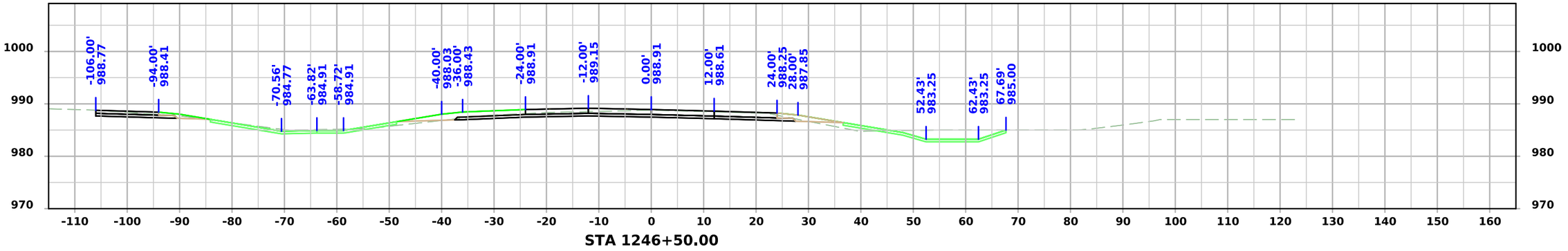


STA 1244+00.00

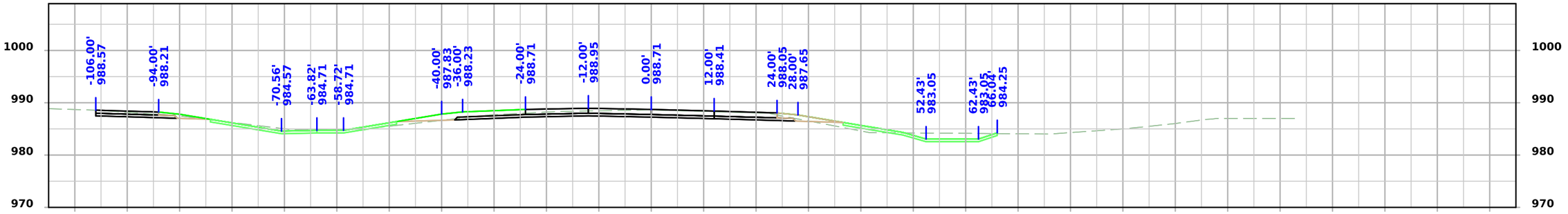
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1:19:17 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

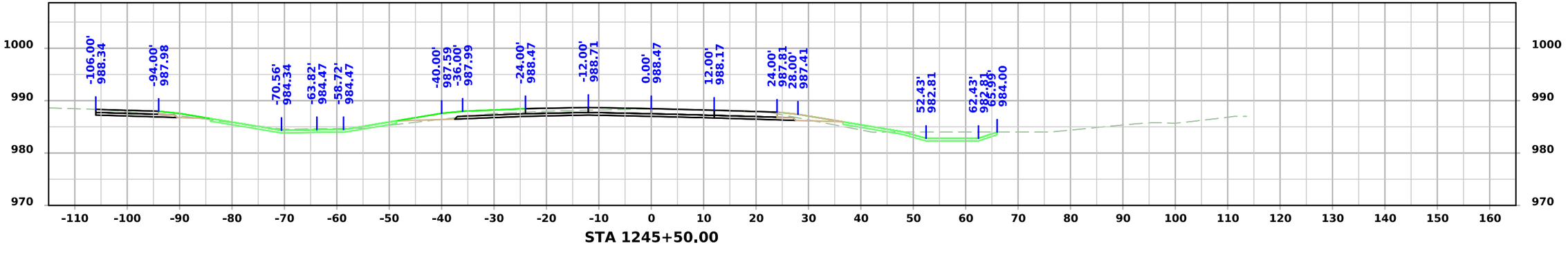
ML - I35 NB



STA 1246+50.00



STA 1246+00.00

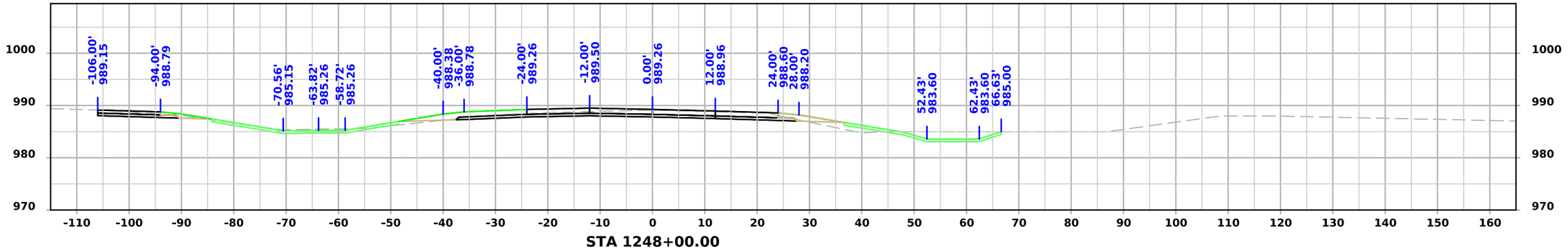


STA 1245+50.00

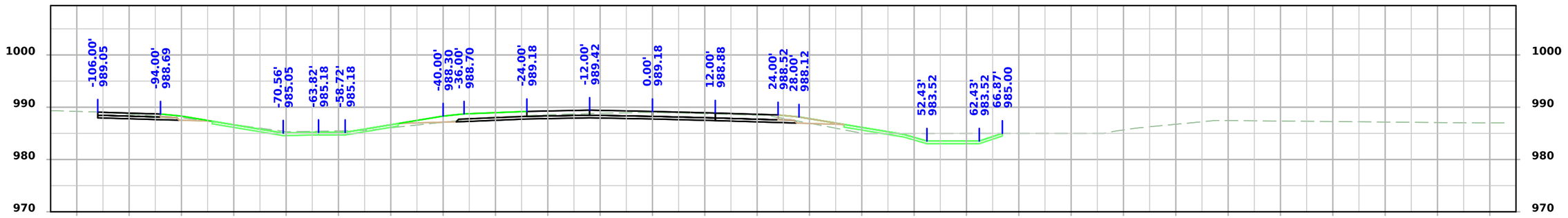
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1:19:19 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

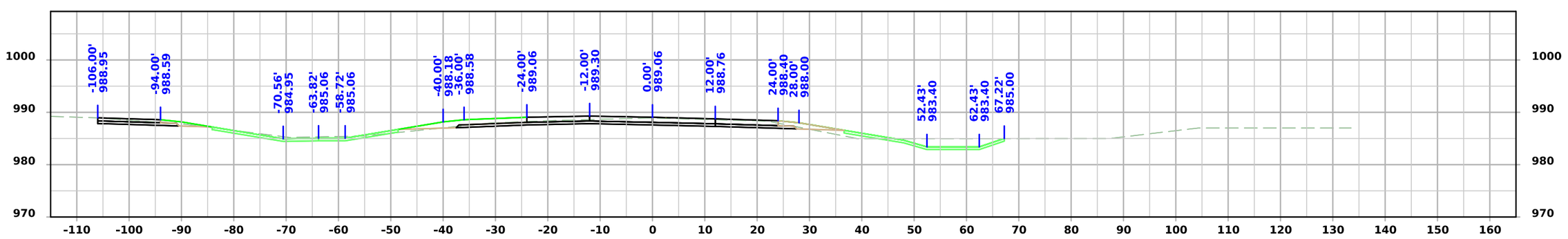
ML - I35 NB



STA 1248+00.00



STA 1247+50.00

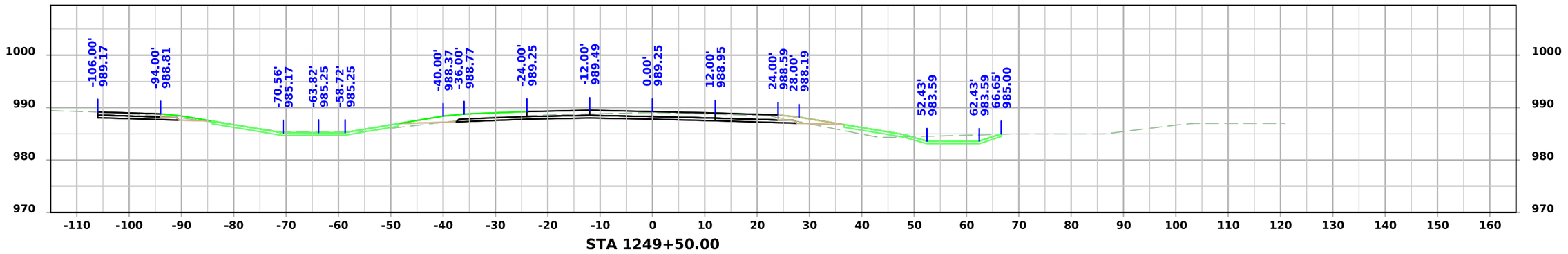


STA 1247+00.00

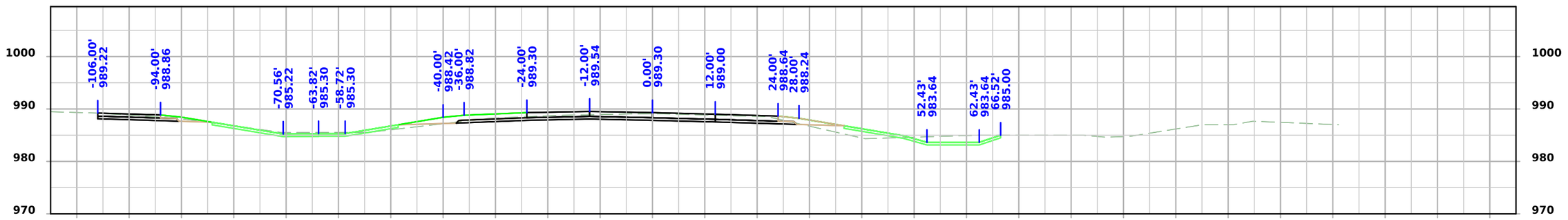
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1:19:21 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

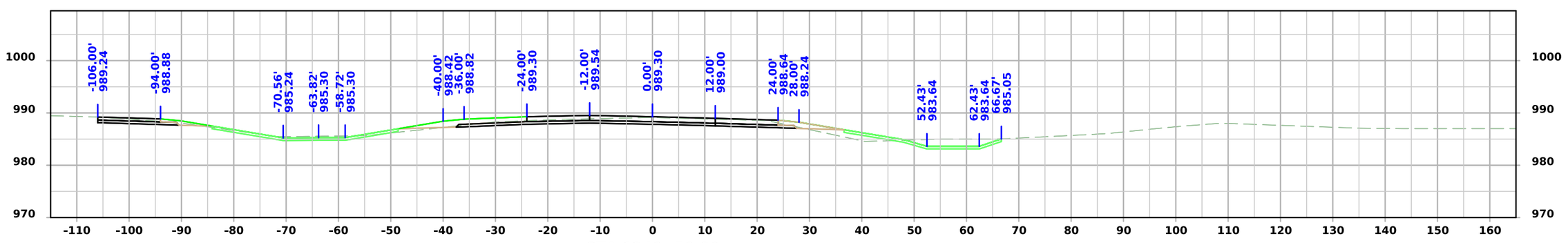
ML - I35 NB



STA 1249+50.00



STA 1249+00.00

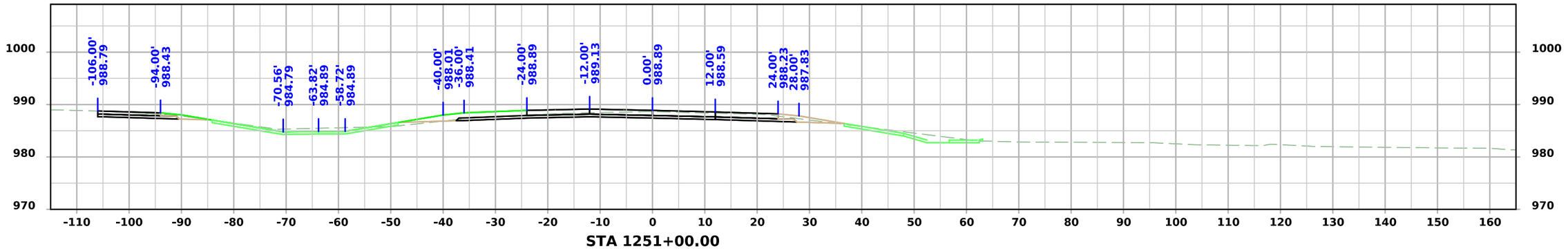


STA 1248+50.00

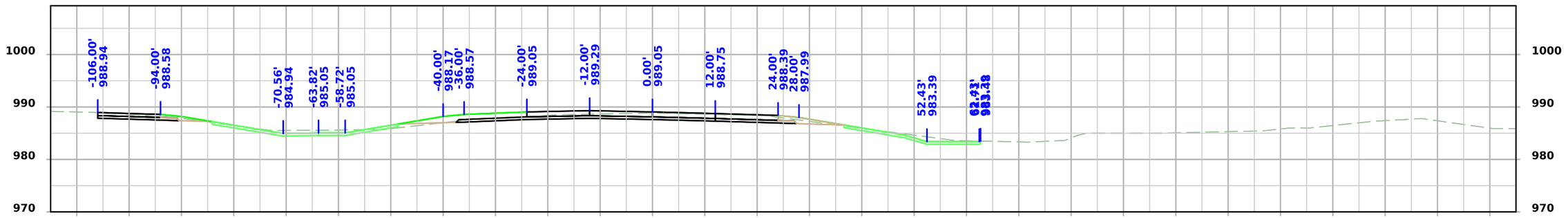
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.125

1:19:22 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

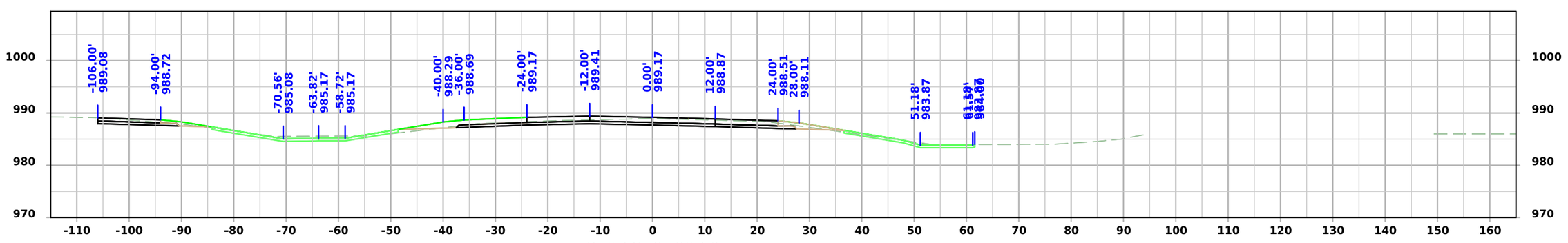
ML - I35 NB



STA 1251+00.00



STA 1250+50.00

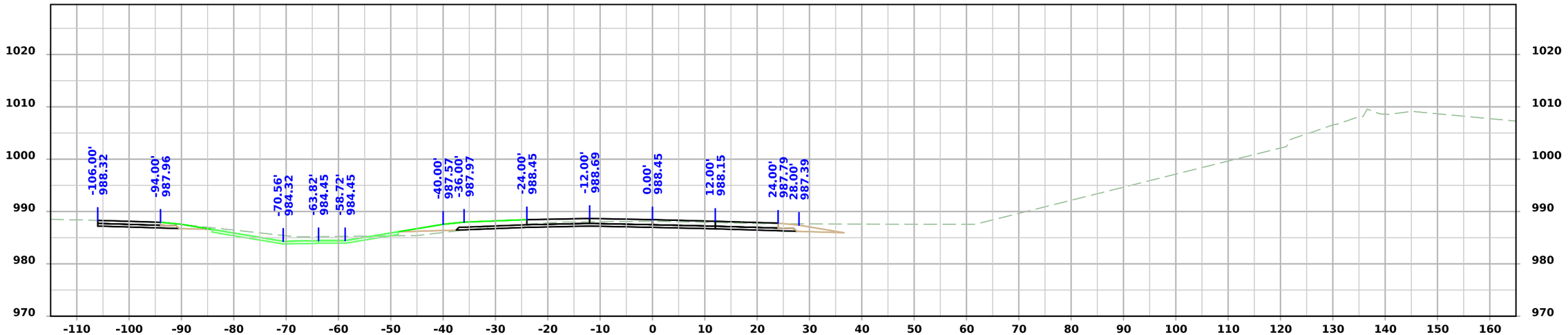


STA 1250+00.00

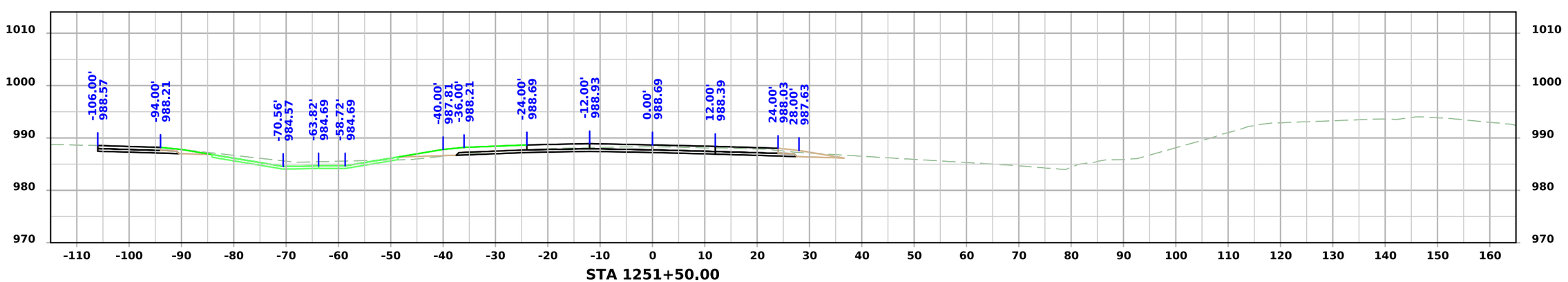
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.126

1:19:24 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1252+00.00

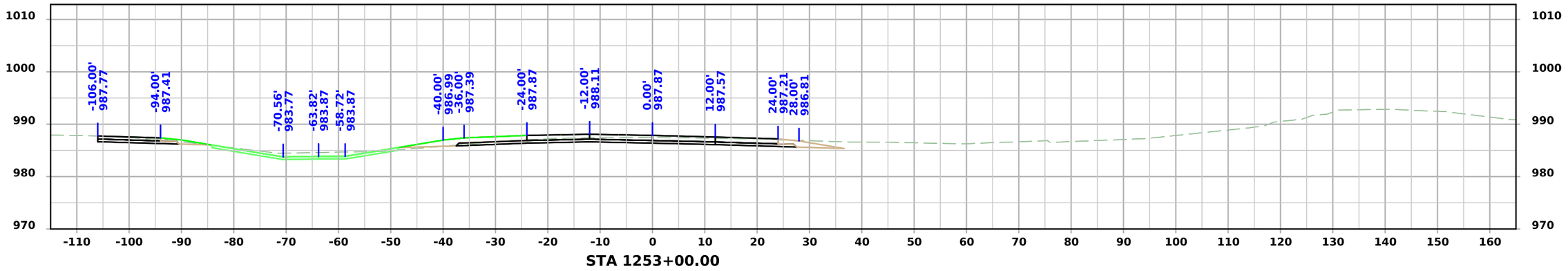


STA 1251+50.00

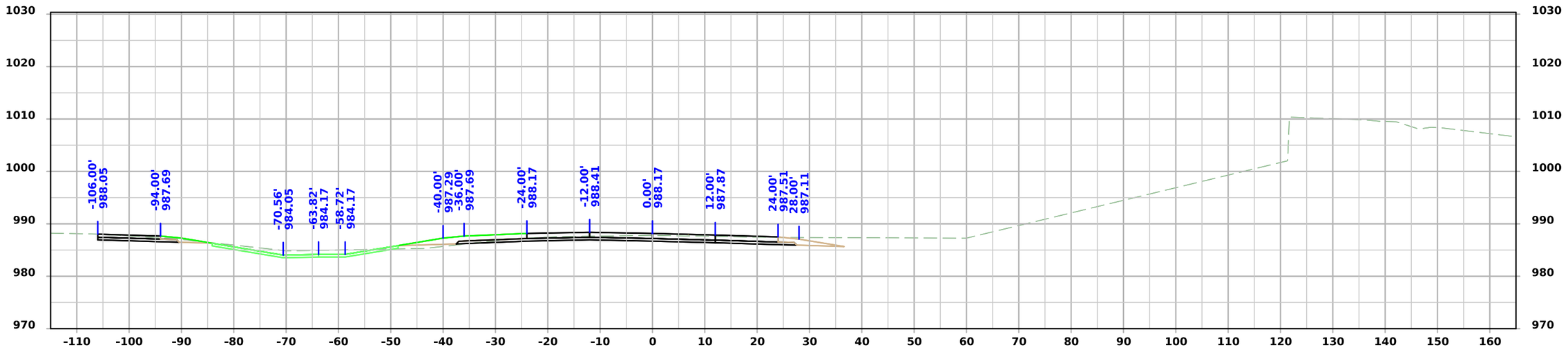
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.127

1:19:26 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1253+00.00

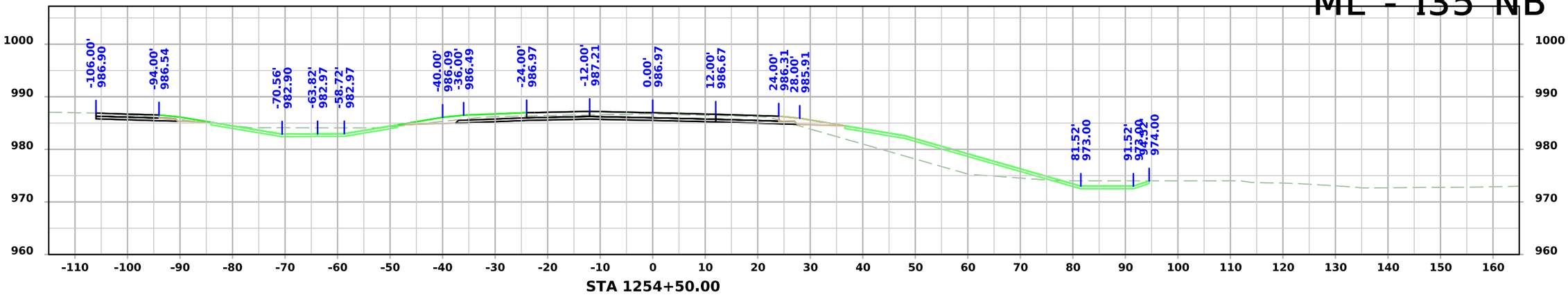


STA 1252+50.00

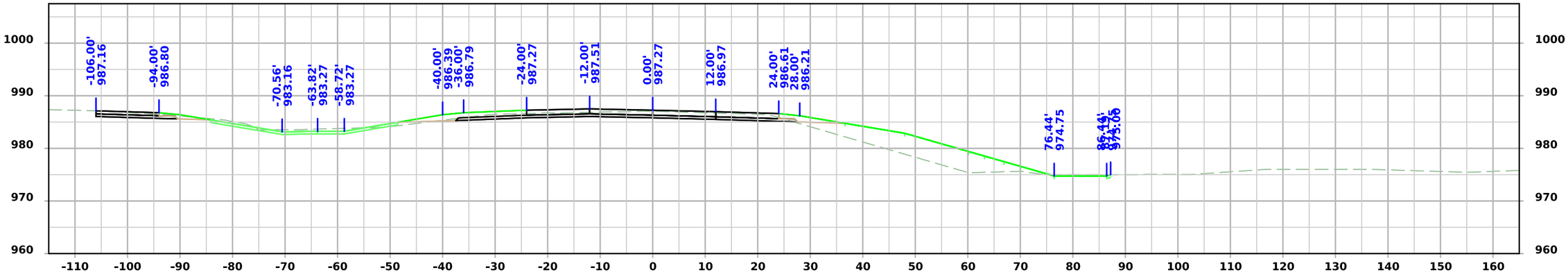
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.128

1:19:27 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

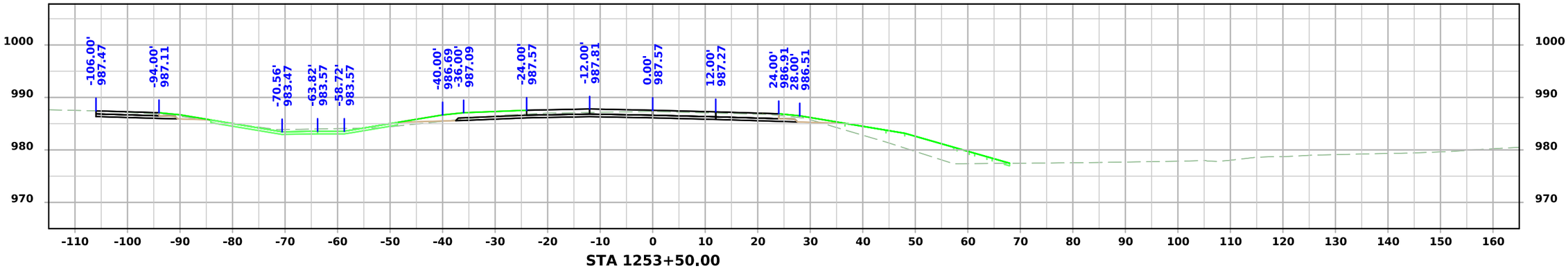
ML - I35 NB



STA 1254+50.00



STA 1254+00.00

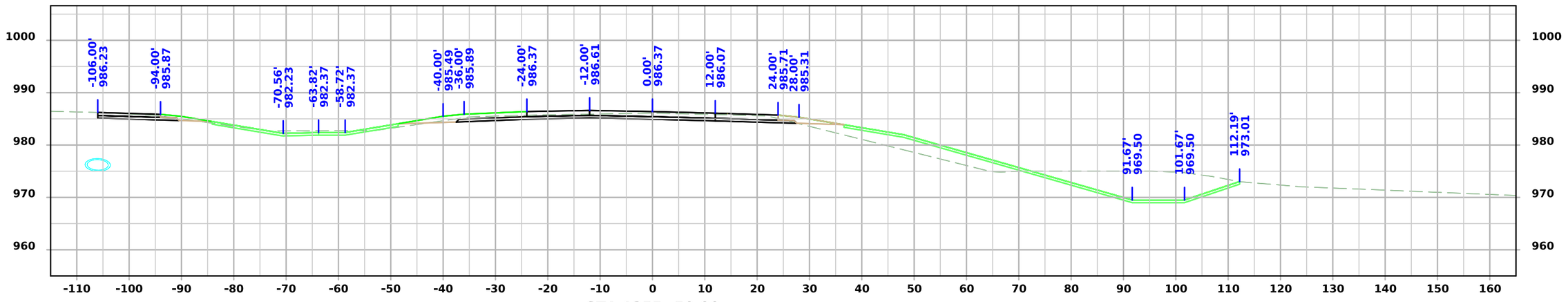


STA 1253+50.00

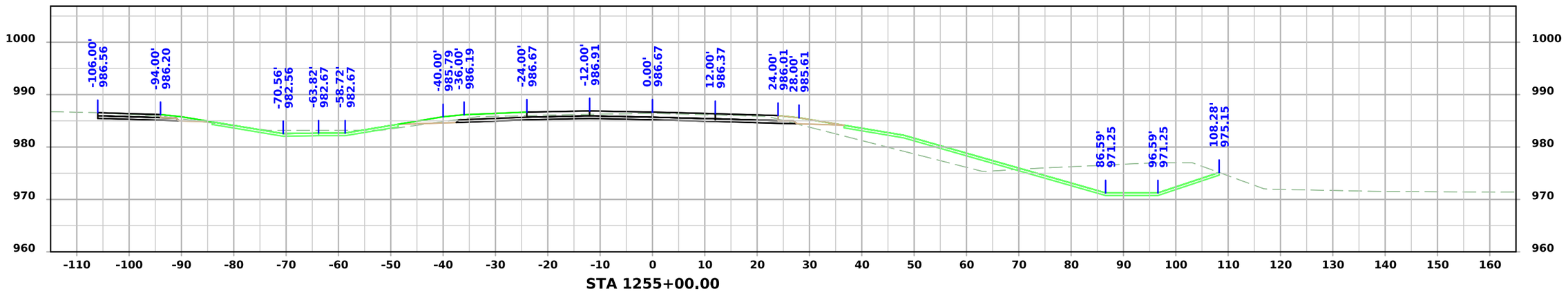
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.129

1:19:29 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1255+50.00

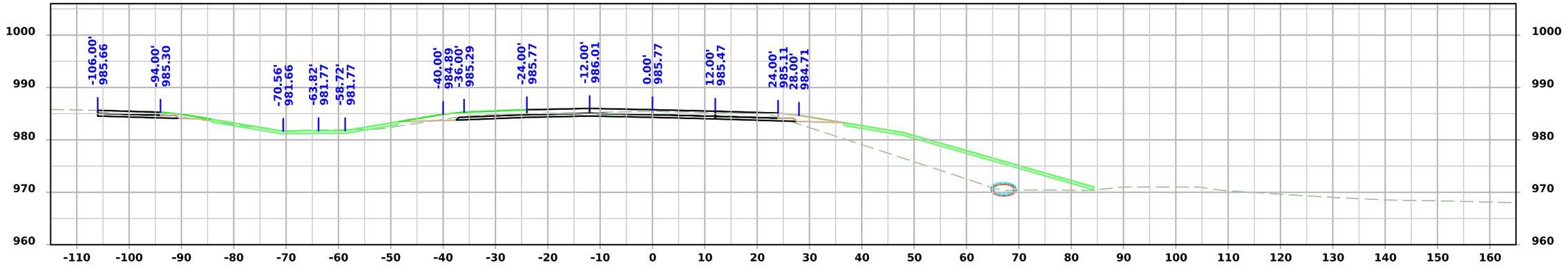


STA 1255+00.00

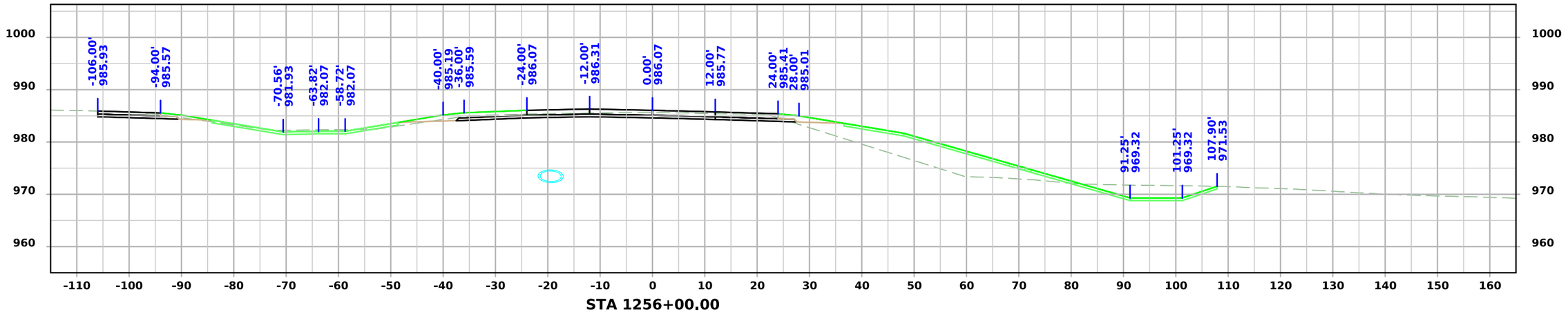
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.130

1:19:30 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1256+50.00

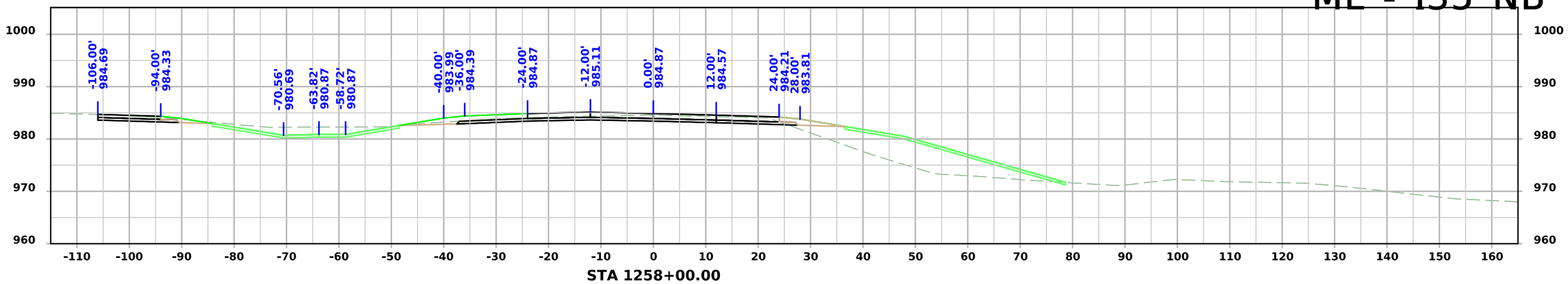


STA 1256+00.00

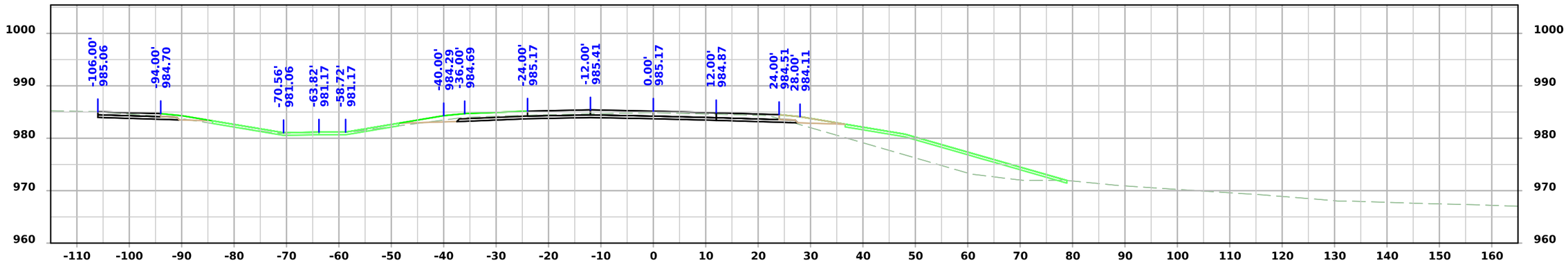
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.131

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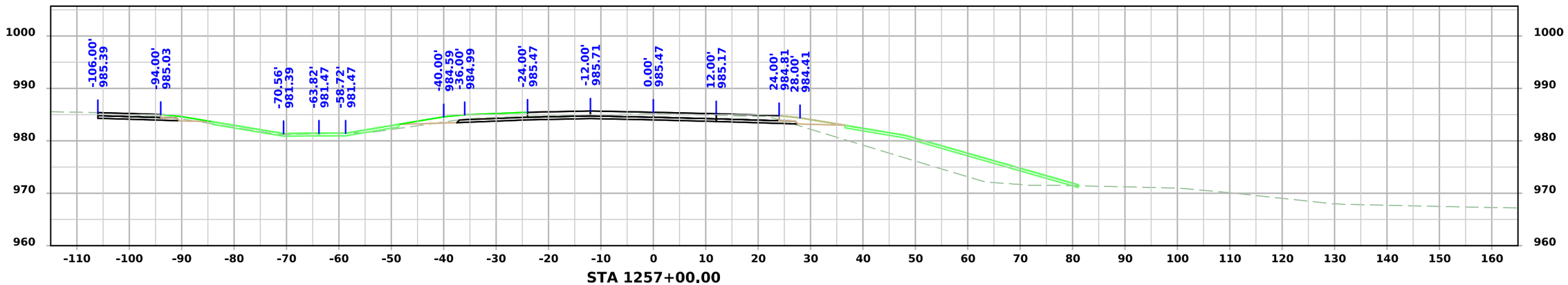
ML - I35 NB



STA 1258+00.00



STA 1257+50.00

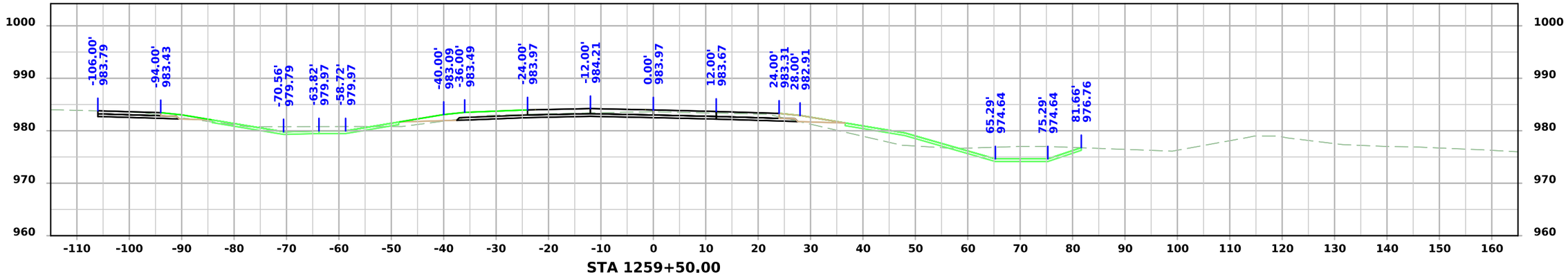


STA 1257+00.00

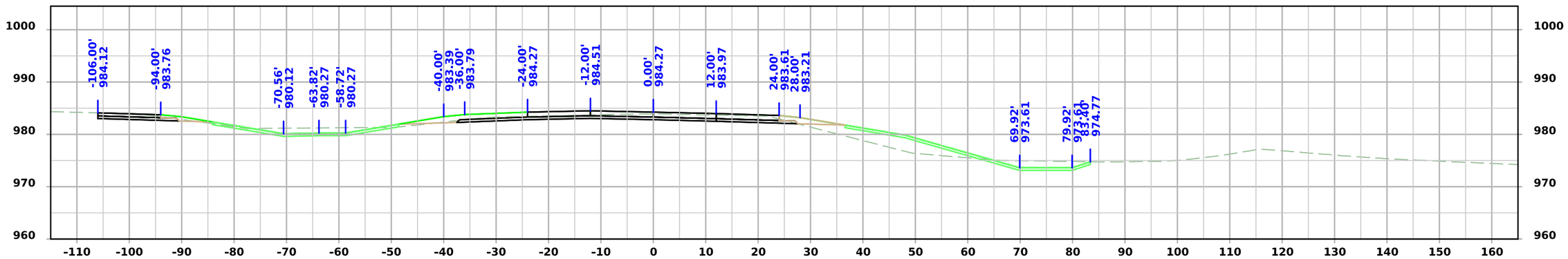
FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.132

1:19:34 PM 9/3/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

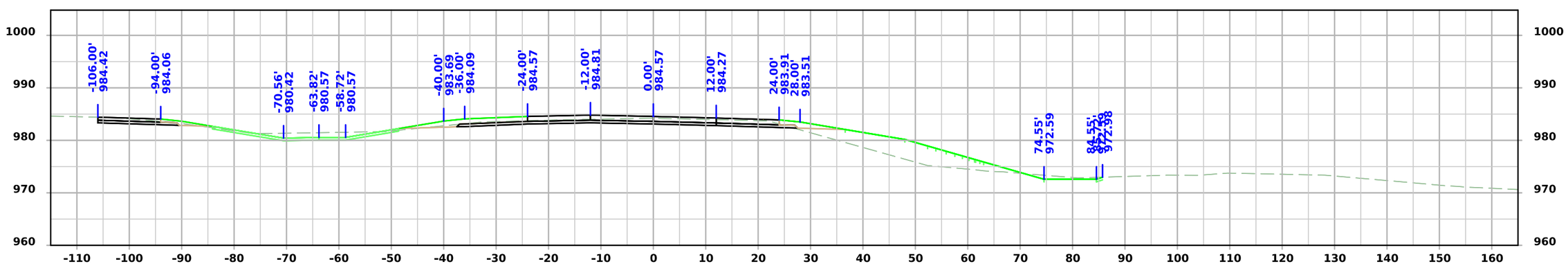
ML - I35 NB



STA 1259+50.00



STA 1259+00.00

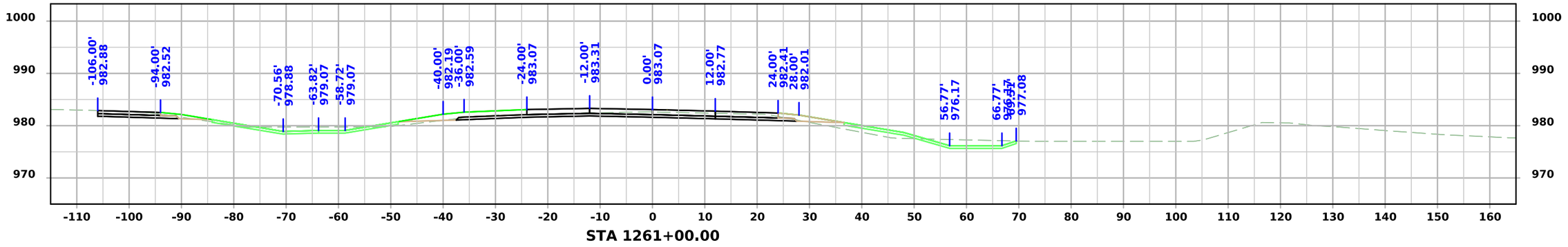


STA 1258+50.00

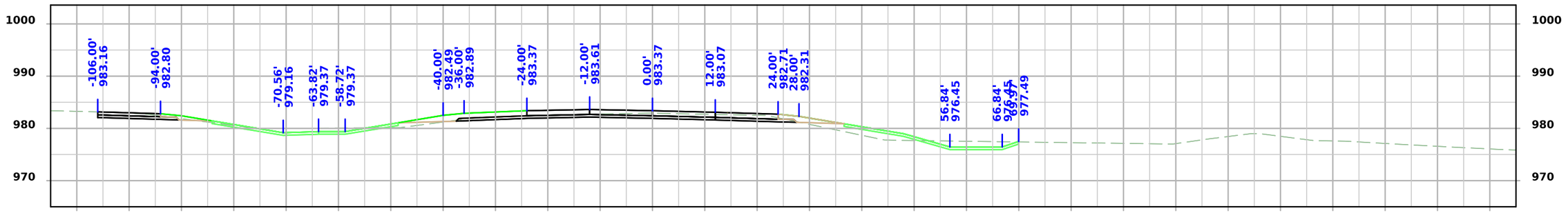
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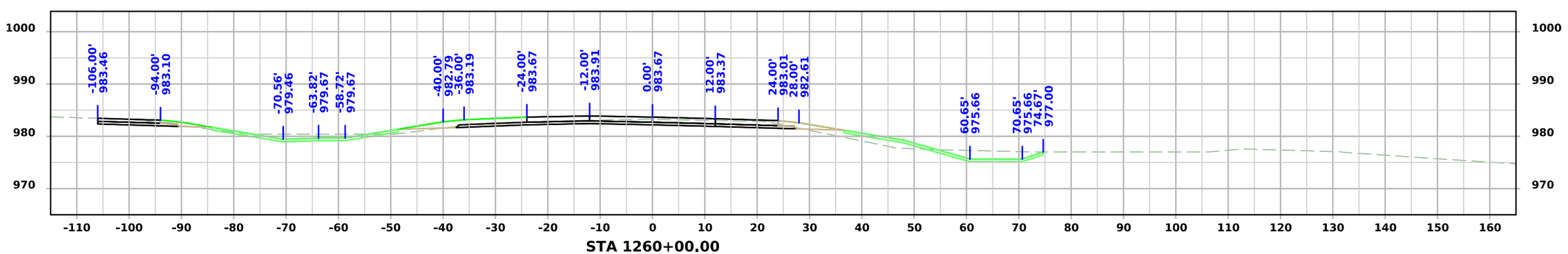
ML - I35 NB



STA 1261+00.00



STA 1260+50.00

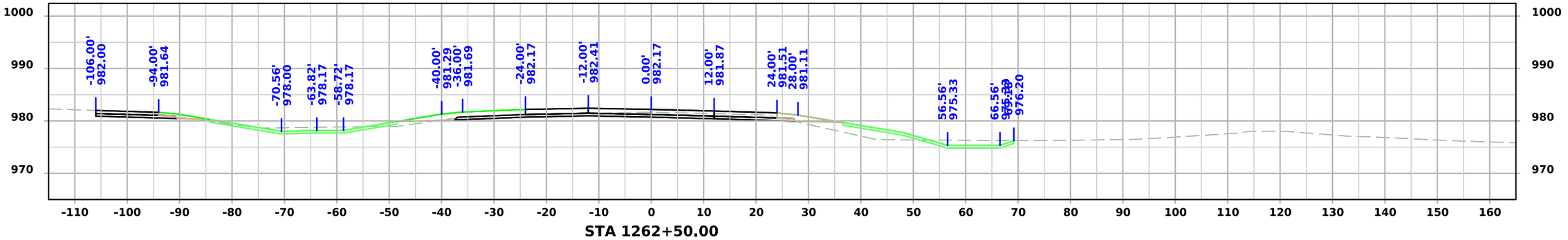


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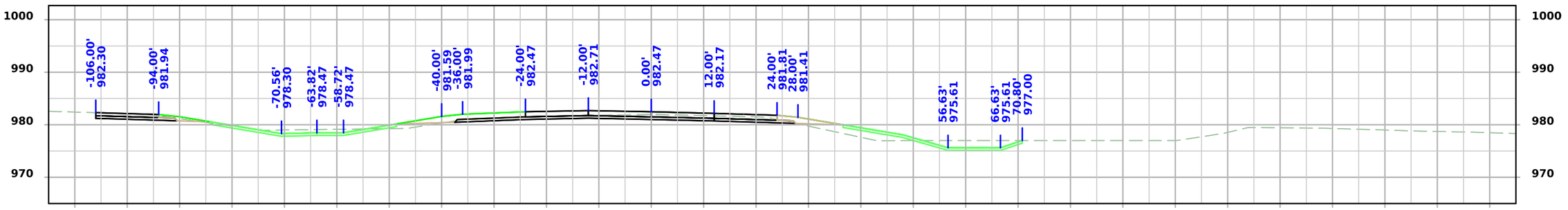
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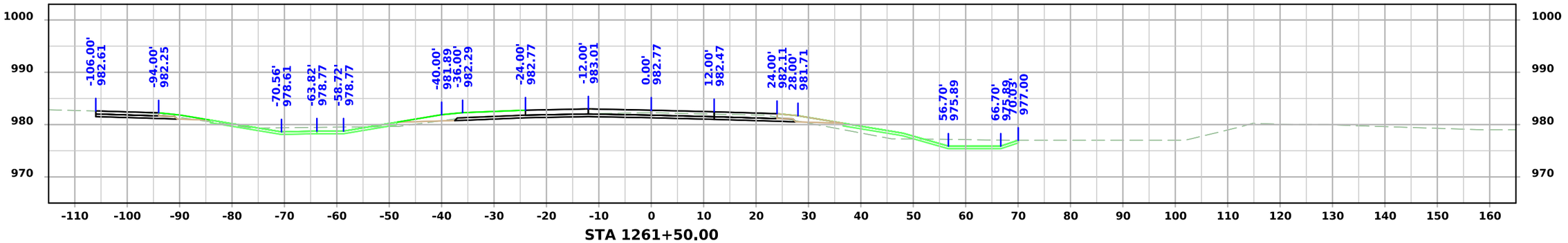
ML - I35 NB



STA 1262+50.00



STA 1262+00.00

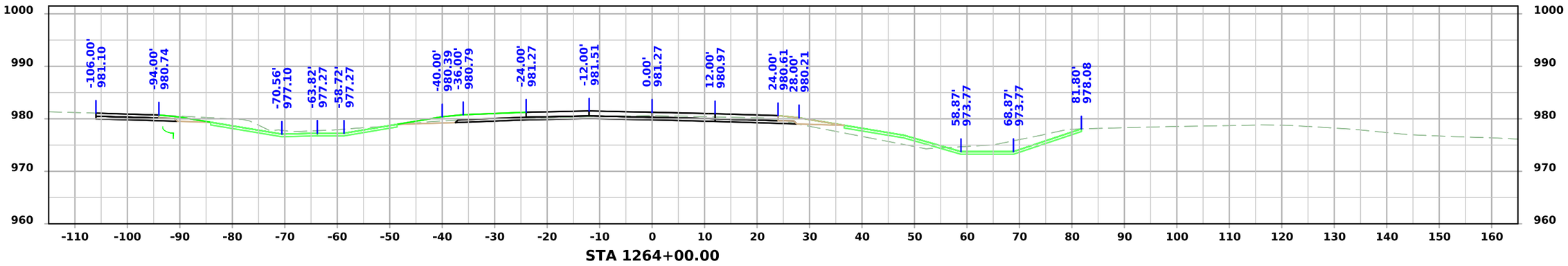


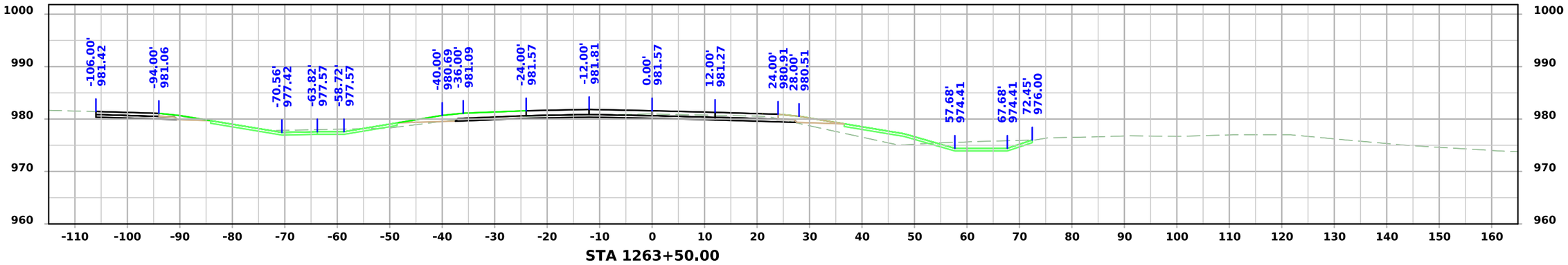
STA 1261+50.00

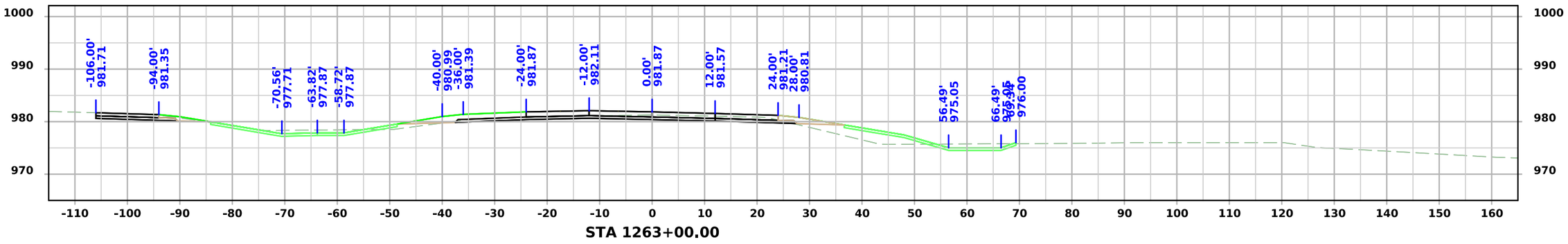
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ML - I35 NB



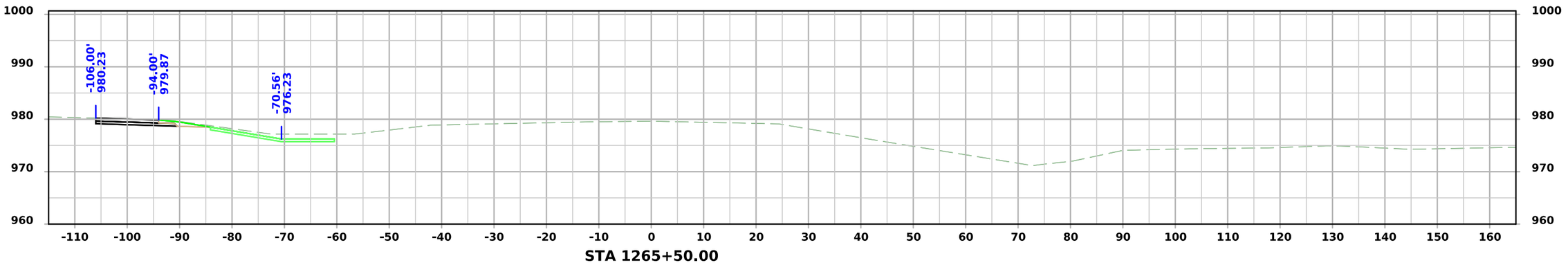


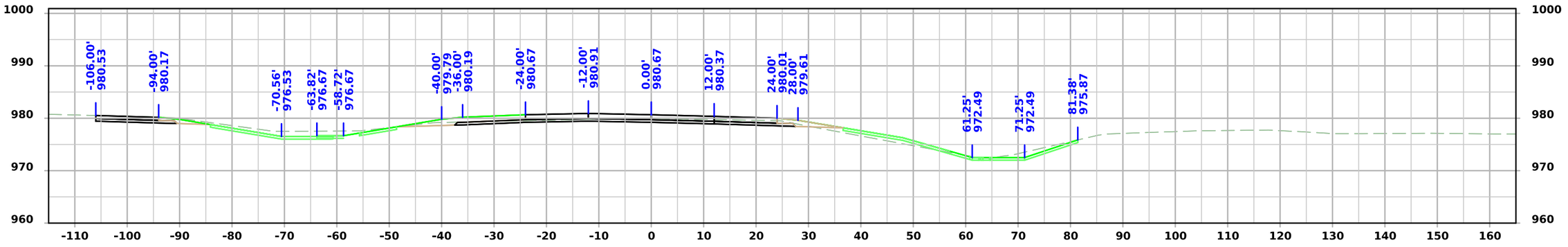


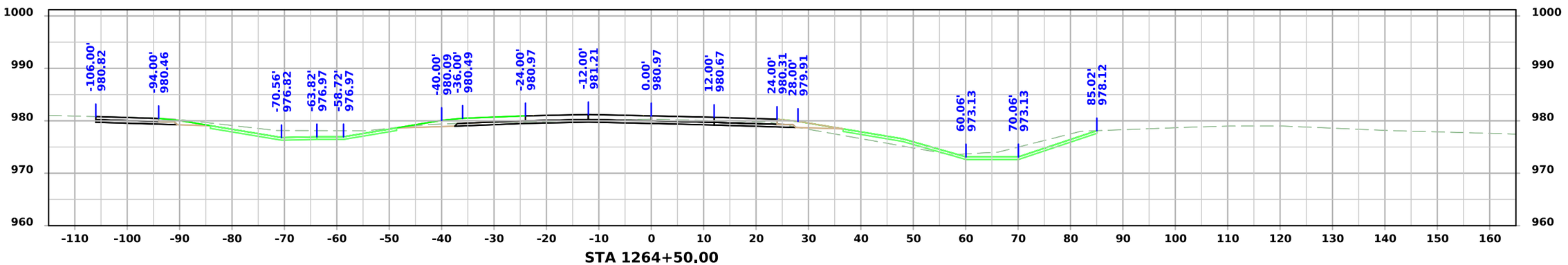
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ML - I35 NB



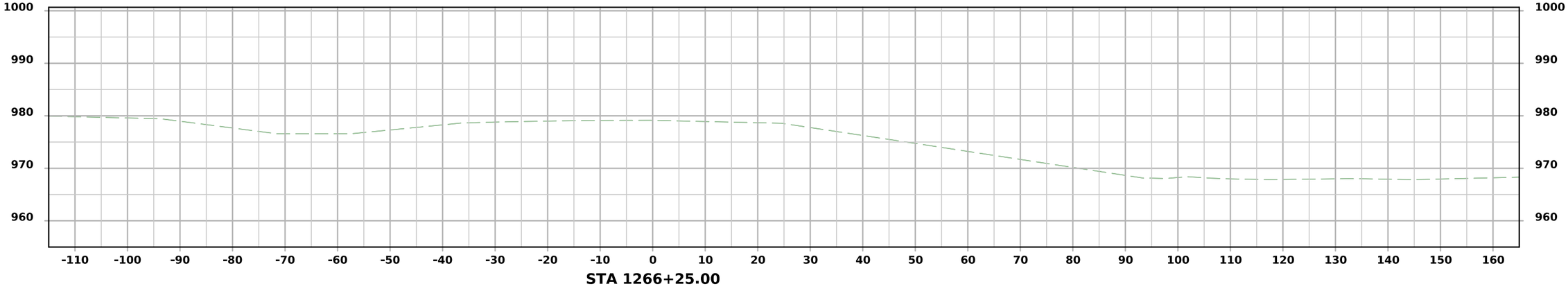




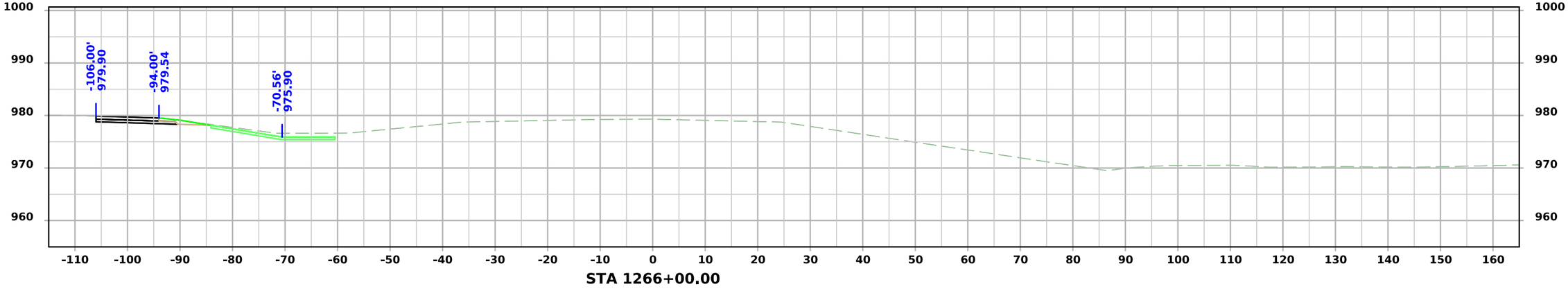
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ML - I35 NB



STA 1266+25.00



STA 1266+00.00

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.138	

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