LETTING DATE
NOV 17 2026

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

WARREN COUNTY

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IOWA DOT

REVISIONS

TOTAL
303
PROJECT IDENTIFICATION NUMBER
00-91-035-030-04
PROJECT NUMBER
IM-NHS-035-2(467)63--03-91
R.O.W. PROJECT NUMBER
IMN-035-2(414)67--0E-77

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.



I-35

DESIGN DATA RURAL

2024	AADT	26,100 --	V.P.D.
2032	AADT	56,800 --	V.P.D.
2032	DHV	5,870 --	V.P.H.
TRUCKS		26.0 --	%
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.

8-17-26

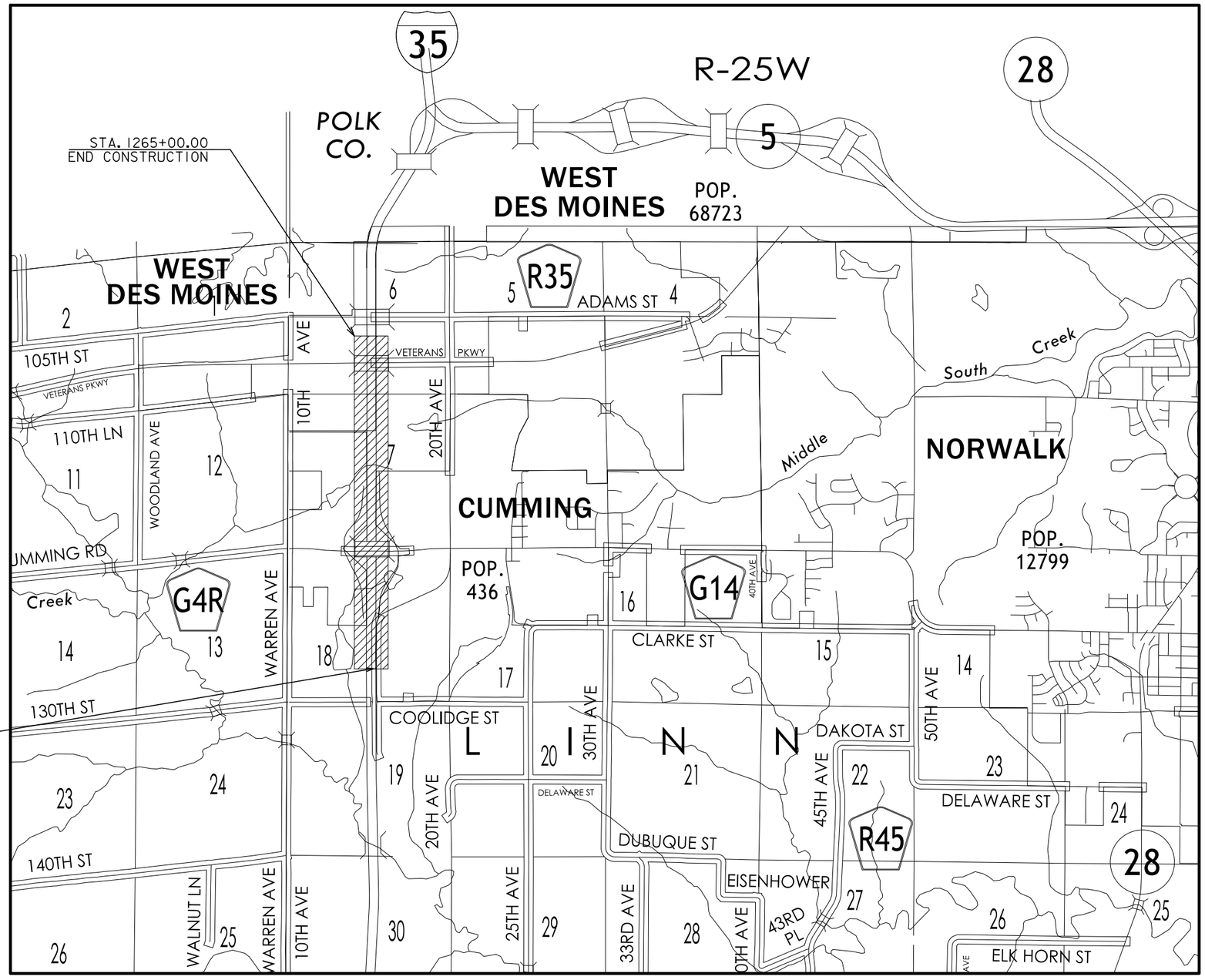
Cindy A. Spencer, P.E. Date

License Number P17561

My License Renewal Date is December 31, 2026

Pages or sheets covered by this seal:

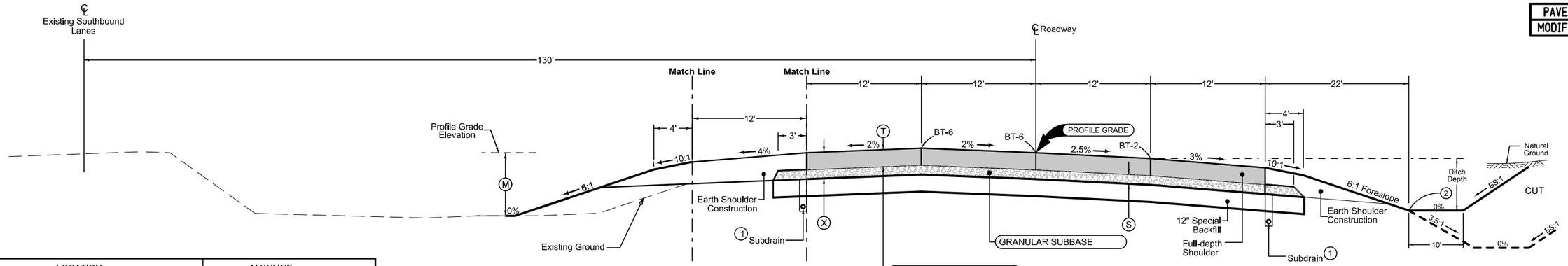
A.1-A.2, B.1-B.6, C.1-C.27, D.1-D.8, G.1-G.4, J.1-J.31, K.1-K.3, L.1-L.12, RC.1-RC.11, RR.1-RR.15, T.1A-T.1B, T.2-T.13, U.1-U.4, W.1-W.139



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

9:46:03 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_A01toA05.dgn

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	11.5	6	17.5	4.0	3
I-35 NB	1136+25.00	1136+50.00	11.5	6	17.5	4.0	TRANS
I-35 NB	1136+50.00	1139+50.00	11.5	6	17.5	4.0	2.5
I-35 NB	1139+50.00	1139+75.00	11.5	6	17.5	4.0	TRANS
I-35 NB	1139+75.00	1142+75.00	11.5	6	17.5	4.0	3
I-35 NB	1142+75.00	1143+00.00	11.5	6	17.5	4.0	TRANS
I-35 NB	1143+00.00	1145+00.00	11.5	6	17.5	4.0	2.5
I-35 NB	1145+00.00	1145+25.00	11.5	6	17.5	4.0	TRANS
I-35 NB	1145+25.00	1260+50.00	11.5	6	17.5	4.0	3

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.

1R_P_FullPCC_ 4-15-25	
BEGIN STATION	END STATION
1260+50.00	1265+00.00

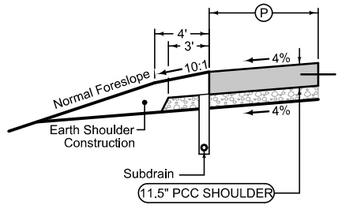
Transverse joints: CD at 17' spacing (mainline pavement and full-depth shoulder)

1 Refer to Tab. 104-9.

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

See Tab 100-24 for Pavement Quantities

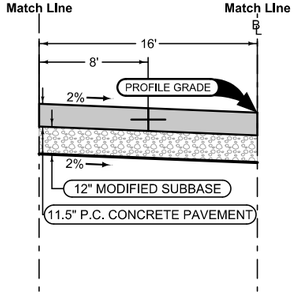
TYPICAL CROSS SECTION NORTHBOUND LANES GRADING AND PAVING



Full Depth PCC Shoulder (Ramp)

Shoulder Jointing:
Longitudinal joint: BT-2, or L-2
Transverse joints: CD at 15' spacing

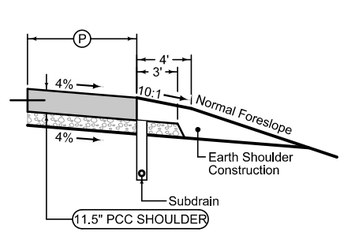
1R_P_FullPCC_ 4-15-25			
ALIGNMENT	STATION TO STATION		(P) Feet
RAMP B	2553+94.61	2554+94.99	4



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



Full Depth PCC Shoulder (Ramp)

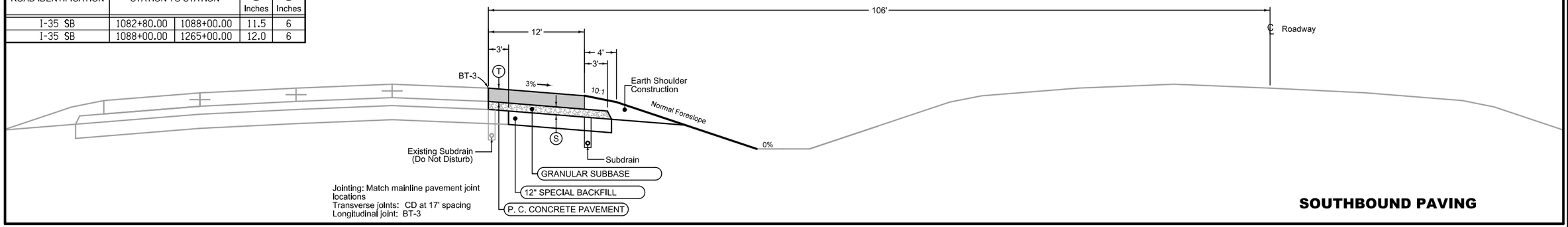
Shoulder Jointing:
Longitudinal joint: BT-2, or L-2
Transverse joints: CD at 15' spacing

1R_P_FullPCC_ 4-15-25		
STATION TO STATION		(P) Feet
2553+94.61	2554+94.99	6

TYPICAL CROSS SECTION RAMP LANES GRADING AND PAVING

LOCATION			MAINLINE	
ROAD IDENTIFICATION	STATION TO STATION		(T) Inches	(S) Inches
I-35 SB	1082+80.00	1088+00.00	11.5	6
I-35 SB	1088+00.00	1265+00.00	12.0	6

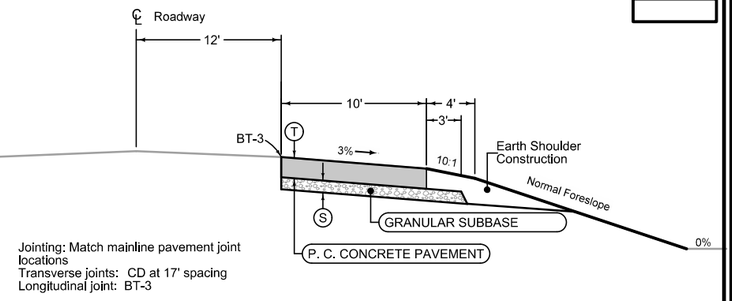
SHLDR-1



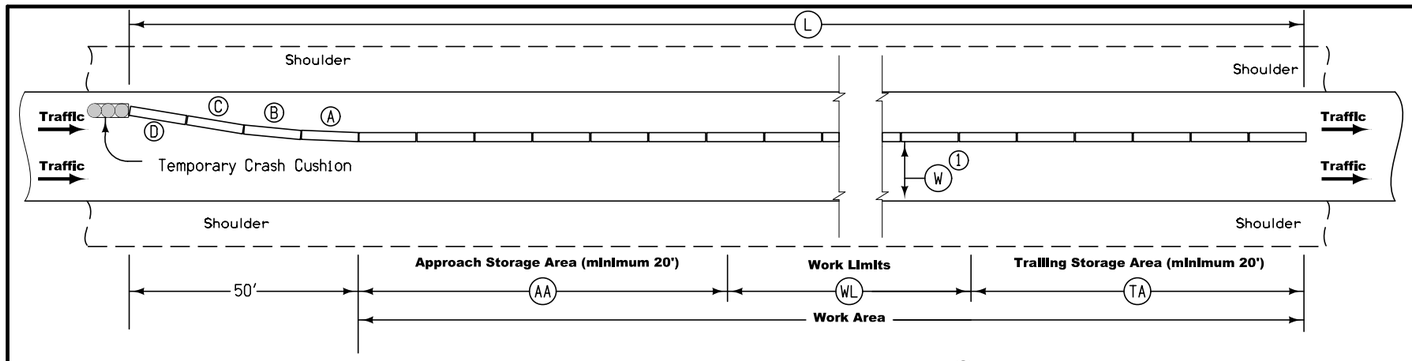
SOUTHBOUND PAVING

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+41.31	1186+83.75	11.0	6
I-35 NB	1198+38.46	1203+50.00	11.0	6

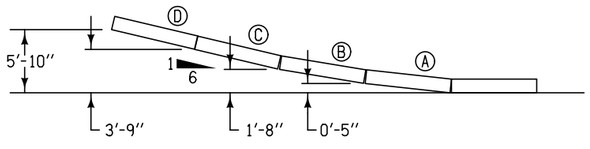


NORTHBOUND SHOULDER STRENGTHENING



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.

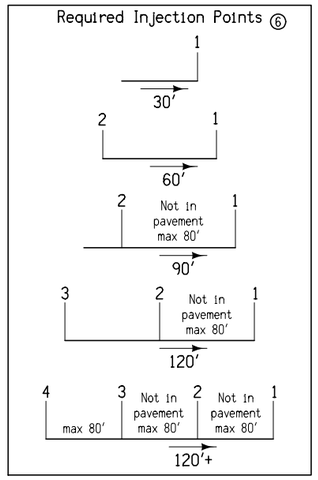


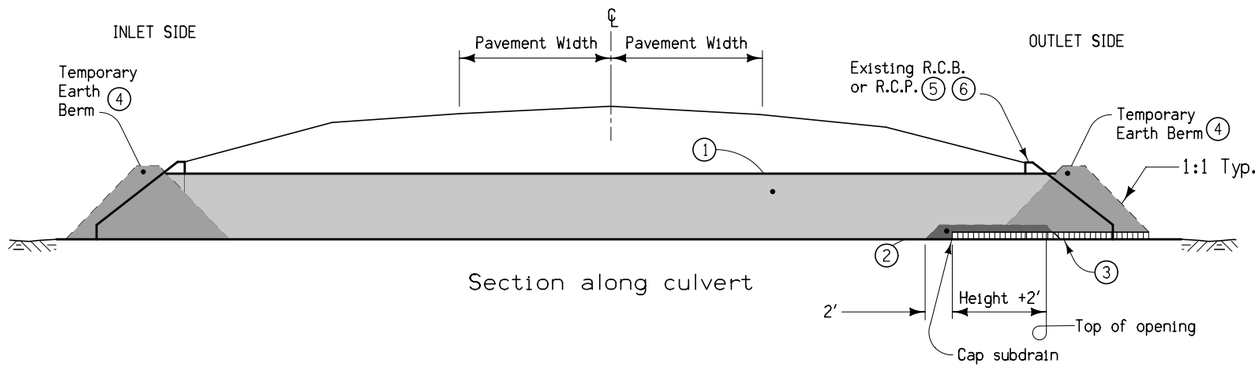
BARRIER OFFSETS FOR FLARE SECTIONS

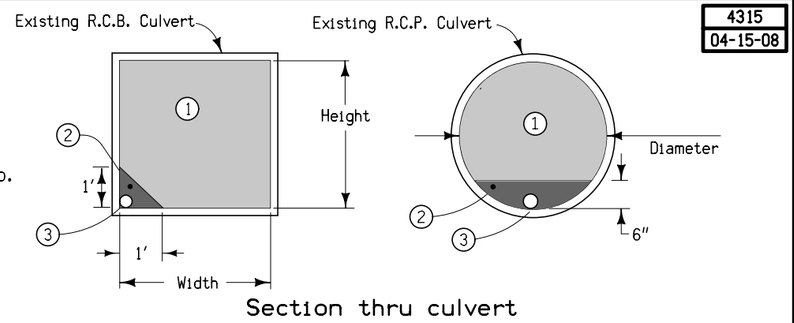
8210
MODIFIED

STATION TO STATION		SIDE	(AA) Feet	(WL) Feet	(TA) Feet	(L) Feet	Anchored X	(W)(1) Ft-Inches	Remarks
1053+21.00	1061+96.00	NBL	20.0	485.5	319.0	875.0	No	29'-0"	STG 2
1058+78.00	1067+53.00	SBL	20.0	495.5	309.0	875.0	No	29'-0"	
1082+00.00	1268+25.12	SBL	125.0	19462.5	N/A	18625.0	No	29'-0"	
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"	
1059+81.17	1269+05.14	SBL/NBL	200.0	20674.0	N/A	20924.0	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	1154+93.14	NBL-XOVER	20.0	603.0	20.0	643.0	No	20'-0"	STG 3A
1167+68.01	1172+41.32	NBL	20.0	383.0	20.0	473.0	No	20'-0"	
1185+83.96	1194+56.20	NBL-XOVER	20.0	782.0	20.0	872.0	No	20'-0"	
1142+96.10	1195+71.10	NBL	200.0	5055.0	20.0	5275.0	No	29'-0"	STG 4

TEMPORARY CONCRETE BARRIER LAYOUT for One-Way Traffic





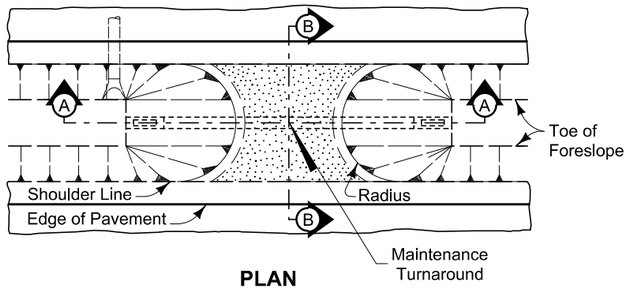


4315
04-15-08

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



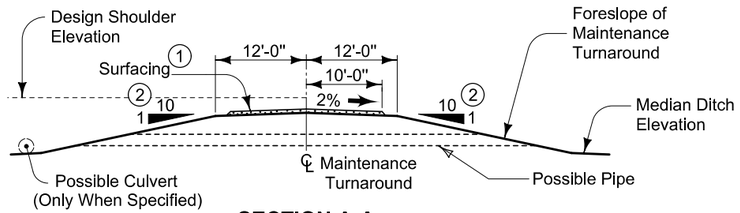
PLAN

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.

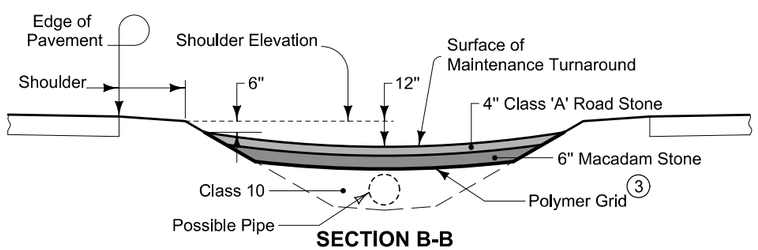
② Construct 8:1 foreslope when drainage pipe is incorporated into the maintenance turnaround.

③ Install Polymer Grid between Class 10 and stone material.

④ See Standard Road Plan DR-212.



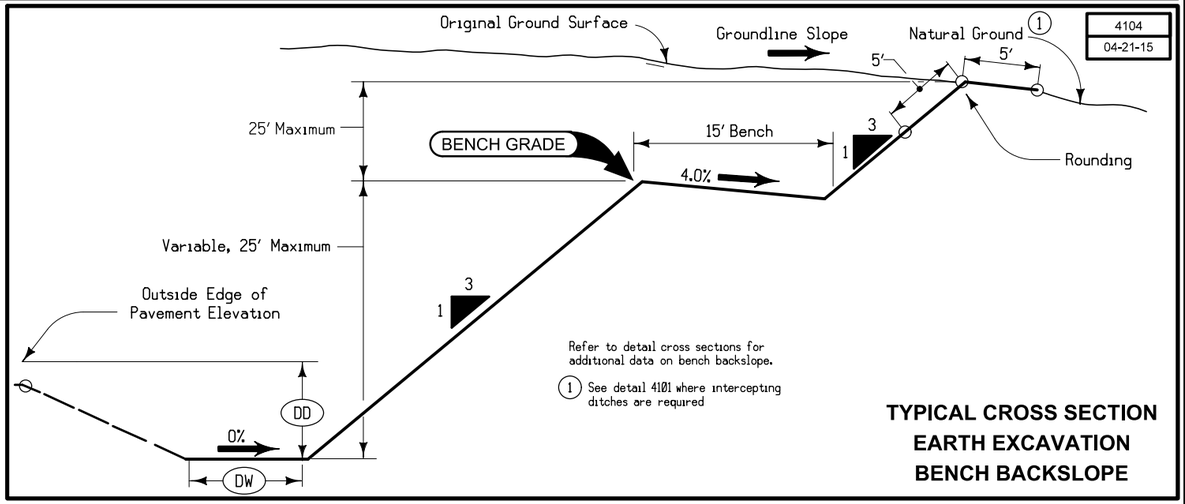
SECTION A-A



SECTION B-B

MAINTENANCE TURNAROUND

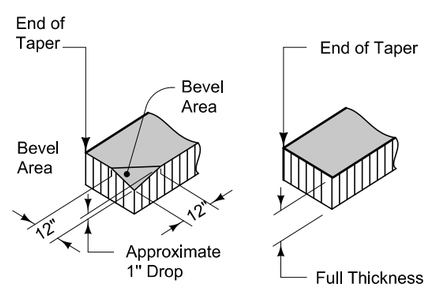
Location		Class 'A' Road Stone	Macadam Stone	Polymer Grid	Class 10	Pipe Length	Beveled Pipe & Guard ④	Radius	Remarks
Road Identification	Station	TONS	TONS	SY	CY	LF	EACH	FT	
I-35	x	x	x	x	x	-	-	x	
I-35	x	x	x	x	x	-	-	x	



4104
04-21-15

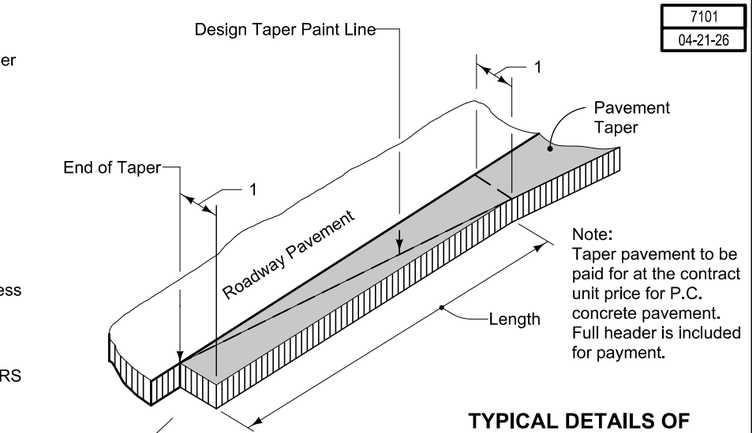
TYPICAL CROSS SECTION EARTH EXCAVATION BENCH BACKSLOPE

7101
04-21-26



DETAIL 'A' FOR GRANULAR SHOULDERS

DETAIL 'A' FOR PAVED SHOULDERS

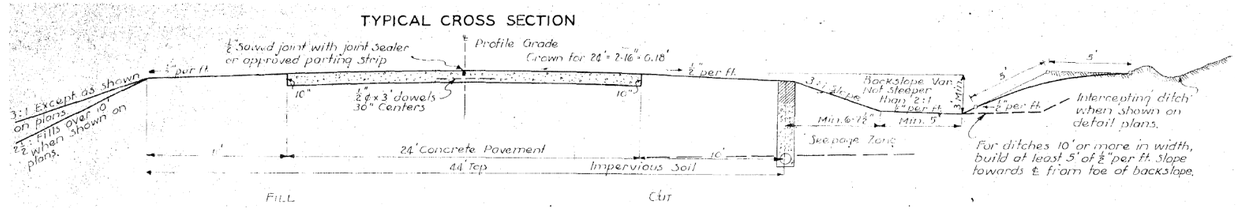


Note: Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

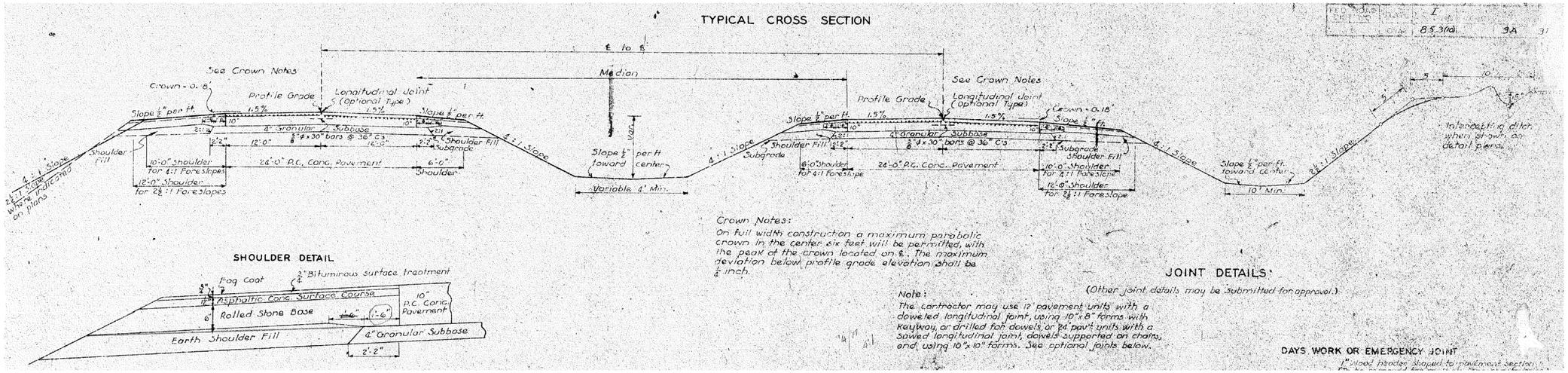
1 Normal width is 2'-0". Match design shoulder width when present (See Typical 7154A).

TYPICAL DETAILS OF PCC PAVEMENT HEADER

TYPICAL CROSS SECTION



TYPICAL CROSS SECTION



Crown Notes:

On full width construction a maximum parabolic crown in the center six feet will be permitted, with the peak of the crown located on ℄. The maximum deviation below profile grade elevation shall be ½ inch.

SHOULDER DETAIL

JOINT DETAILS

(Other joint details may be submitted for approval.)

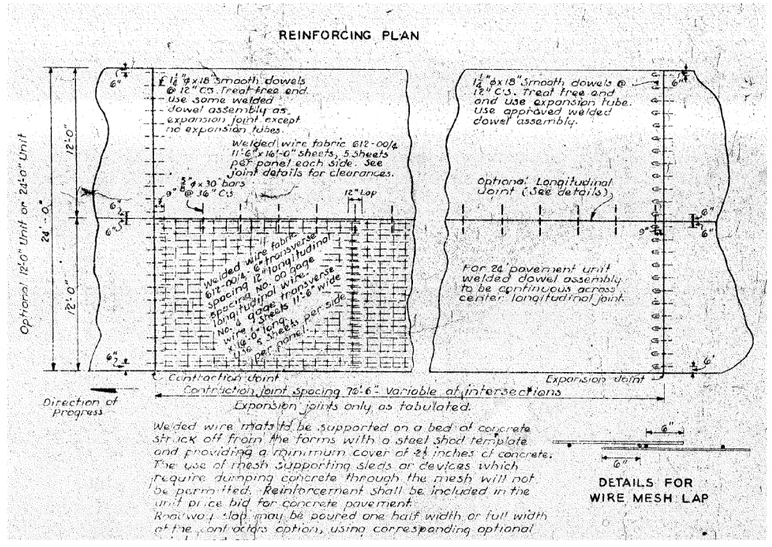
Note:

The contractor may use 12' pavement units with a doweled longitudinal joint, using 10"x 8" forms with keyway, or drilled for dowels, or 24' pavt units with a sawed longitudinal joint, dowels supported on chairs, and using 10"x 10" forms. See optional joints below.

DAYS WORK OR EMERGENCY JOINT

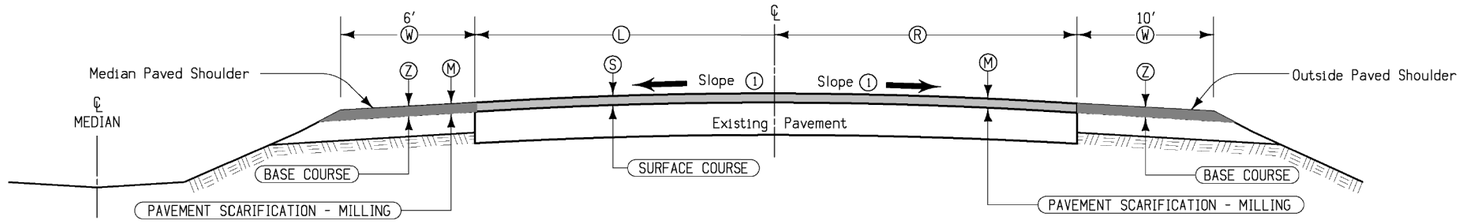
(1" steel header shaped to pavement section)

REINFORCING PLAN



Project No. I-853(10)
February 1959 AsBuilts
Sta. 736+00 - Sta. 1308+27.3

2618B
MODIFIED



Notes:

Section shown in the direction of travel

(1) Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.

Refer to Standard Road Plans for additional requirements through superelevated curves.

(2) Tackcoat estimated for one application.
Tackcoat is not a Bid Item.
See Developmental Specification for additional information.

DESIGN RATES MAINLINE	
ITEM	
Surface Course	155 lbs./cu. ft.
Asphalt Binder	7% Content
Tack Coat	0.10 gal./sq. yd.

Design Rates — Per Station

Location	Ⓢ	Ⓜ	Ⓛ	Ⓡ	Tack Coat	Asphalt Binder	Hot Mix Asphalt (Tons)	Pavement Scarification
Road Identification	Inches	Inches	Feet	Feet	Gallons (2)	Tons	Surface	Sq. Yds.
Northbound Mainline	1.5	1.5	12.0	12.0	26.67	1.628	23.250	266.67
Southbound Mainline	1.0	1.0	12.0	12.0	26.67	1.085	15.500	266.67

MAINLINE

Design Quantities Mainline

Location			Ⓢ	Ⓜ	Ⓛ	Ⓡ	Tack Coat	Asphalt Binder	Hot Mix Asphalt (Tons)	Pavement Scarification	Remarks
Road Identification	Station To Station		Inches	Inches	Feet	Feet	Gallons (2)	Tons	Surface	Sq. Yds.	
Northbound											
I-35	1020+28.00	1066+50.00	1.5	1.5	12.0	12.0	1232.53	75.223	1074.615	12325.33	
I-35	1080+65.00	1265+00.00	1.5	1.5	12.0	12.0	4916.00	300.030	4286.138	49160.00	
Southbound											
I-35	981+73.60	1037+00.00	1.0	1.0	12.0	12.0	1473.71	59.961	856.592	14737.07	
Total Northbound							6148.53	375.253	5360.753	61485.33	
Total Southbound							1473.71	59.961	856.592	14737.07	
Totals							7622.24	435.214	6217.345	76222.40	

DESIGN RATES SHOULDERS	
ITEM	
Base Course	145 lbs./cu. ft.
Asphalt Binder	6% Content
Tack Coat	0.10 gal./sq. yd.

Design Rates — Per Station

Location	Side	Ⓦ	Ⓩ	Ⓜ	Tack Coat	Asphalt Binder	Hot Mix Asphalt (Tons)	Pavement Scarification
Road Identification		Feet	Inches	Inches	Gallons (2)	Tons	Base	Sq. Yds.
Median Shoulder	--	6	1.5	1.5	6.67	0.326	5.438	66.67
Outside Shoulder	--	10	1.5	1.5	11.11	0.544	9.063	111.11

SHOULDERS

Design Quantities Shoulders

Location			Side	Ⓦ	Ⓩ	Ⓜ	Tack Coat	Asphalt Binder	Hot Mix Asphalt (Tons)	Pavement Scarification	Remarks
Road Identification	Station To Station			Feet	Inches	Inches	Gallons (2)	Tons	Base	Sq. Yds.	
I-35 Northbound	1020+28.00	1066+50.00	MED	6	1.5	1.5	308.1	15.079	251.321	3081.33	
I-35 Northbound	1080+65.00	1265+00.00	MED	6	1.5	1.5	1229.0	60.144	1002.403	12290.00	
I-35 Northbound	1020+28.00	1066+50.00	OUT	10	1.5	1.5	513.6	25.132	418.869	5135.56	
I-35 Northbound	1080+65.00	1265+00.00	OUT	10	1.5	1.5	2048.3	100.240	1670.672	20483.33	
I-35 Southbound	981+73.60	1037+00.00	MED	6	1.5	1.5	368.4	18.030	300.498	3684.27	
I-35 Southbound	981+73.60	1037+00.00	OUT	10	1.5	1.5	614.0	30.050	500.830	6140.44	
Total Northbound							4099.02	200.596	3343.265	40990.22	
Total Southbound							982.47	48.080	801.328	9824.71	
Totals							5081.49	248.676	4144.593	50814.93	

TYPICAL CROSS SECTION
HMA RESURFACING & PAVEMENT SCARIFICATION
MAINLINE AND SHOULDERS

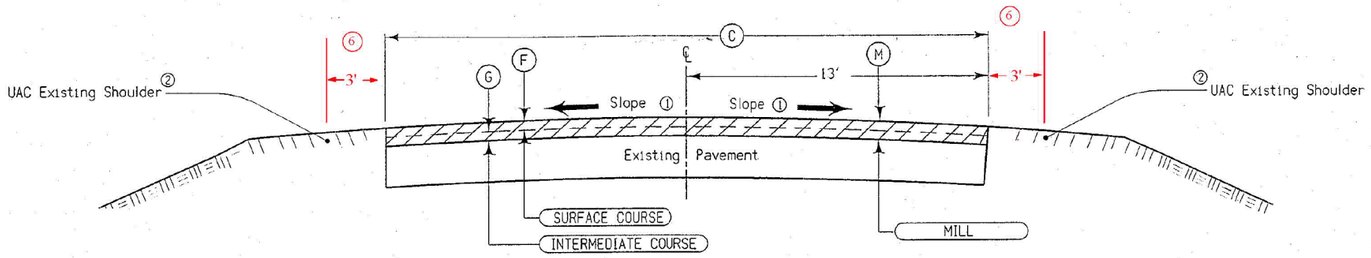
FILE NO.	ENGLISH	DESIGN TEAM Van Dyke \ Belgarde \ Fiedler	WARREN COUNTY	PROJECT NUMBER IMN-035-2(446)58--0E-91	SHEET NUMBER B.2

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

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2602M
Modified



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.

Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.

② Shoulder construction at specific locations are identified elsewhere in these plans.

③ Tack Coat estimated for 2 applications

④ Tack Coat estimated for 1 applications

⑤ Between Sta. 98+92.4 and Sta 116+48 replace HMA between new PCC pav't approximate width is 24'.

⑥ Between Sta. 981+73.60 and 98+92.4, 3 feet of the existing shoulder adjacent to the traveled lanes was milled 3" deep and resurfaced with the mainline pavement.

DESIGN RATES	
ITEM	RATE
Surface Course	145 lbs./cu ft
Intermediate Course	145 lbs./cu ft
Tack Coat	0.05 gal./sq. yd.

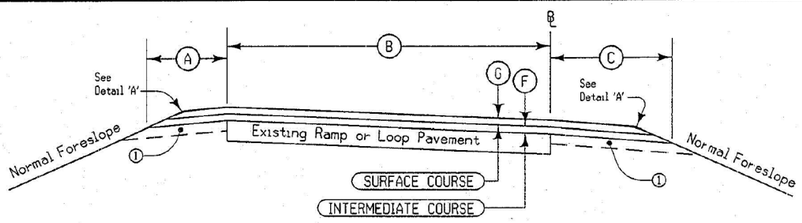
TABLE OF DESIGN QUANTITIES Per Station

LOCATION			(F)	(G)	(M)	(C)	TACK COAT	MILL	ASPHALT BINDER	HOT MIX ASPHALT (Tons)	
ROAD IDENTIFICATION	STATION TO STATION		Inches	Inches	Inches	Feet	Gallons ③	Tons	Tons	SURFACE	INTERMEDIATE
I - 35 NB Warren Co. Section 1	1020+28.00	1199+43.50	1.5	1.5	3	31	34.67	54.25	3.37	28.09	28.09
I - 35 NB Polk Co. Section 2	1278+37.00	98+92.40	1.5	1.5	3	31	34.67	54.25	3.37	28.09	28.09
I - 35 NB Polk Co. Section 2 ④	98+92.40 ⑤	296+92.40	2	-	-	25	13.88	29.17	1.83	30.41	-
I - 35 SB Polk Co. Section 2 ④	98+92.40 ⑤	296+92.40	2	-	-	25	13.88	29.17	1.83	30.41	-
I - 35 NB Warren Co. Section 2	1199+43.50	1278+37.00	1.5	1.5	3	31	34.67	54.25	3.37	28.09	28.09
I - 35 SB Warren Co. Section 3	981+73.60	1145+00.00	1.5	1.5	3	31	34.67	54.25	3.37	28.09	28.09

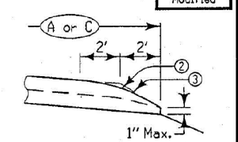
EQ: Sta. 1308+27.80 BK = Sta. 65+66.00 AH

TYPICAL CROSS SECTION
HMA RESURFACING

2616M
Modified



TYPICAL CROSS SECTION
HMA RESURFACING
RAMP or LOOP



DETAIL 'A'

INTERCHANGE	RAMP/ LOOP IDENT.	DENSITY 94%	95%	96%	(A) Feet	(B) Feet	(C) Feet	(G) Inches	(F) Inches	REMARKS
a/ I-35/80/235	Ramp B			X	4	16	4	1.5	2	Note 1
b/ I-35/80/235	Ramp D			X	4	16	4	1.5	2	Note 2
c/ I-35/80/235	Loop E			X	4	16	6	1.5	2	Note 3
d/ I-35/80/235	Loop F			X	4	16	6	1.5	2	Note 4
e/ I-35/80/235	Loop G			X	4	16	6	1.5	2	Note 5

Note:

Normal section shown may be appropriately modified at areas specifically designated by the engineer, such as intersections or superelevated curves.

Section view is in the direction of traffic.

Refer to other drawings for details of shoulder design and construction.

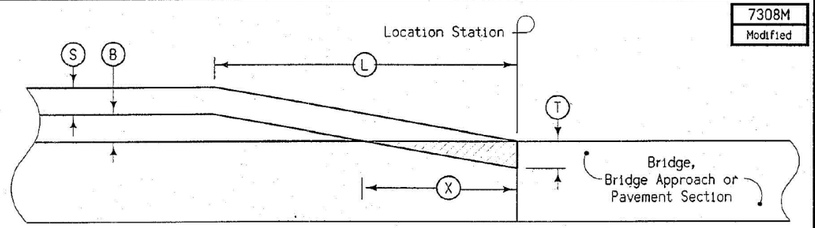
① Existing Shoulder
② Roll to a rounded profile
③ 6:1 typical, may vary to 4:1 maximum
④ Tack coat estimated for 2 applications.
⑤ Quantities include ramp tapers & loops.
⑥ Use 38M EASL HMA for ramps & loops.

DESIGN RATES	
ITEM	RATE
Surface Course	145 lbs./cu. ft.
Intermediate Course	145 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.

7308M
Modified

Posted Speed Limit (mph)	Runout Ratio (ft per inch)
45 or More	50
20 to 45	25
Under 20	10 *

* Based on turning maneuvers at side roads and intersections.



Ⓢ Surface Course
Ⓑ Intermediate Course
Ⓣ Milling

SURFACE NOTCH - INTERMEDIATE
RUNOUT FOR DOUBLE COURSE RESURFACING

Location Station	(L) Feet	(S) Inches	(B) Inches	(T) Inches	(X) Feet	Remarks
2523+85 Ramp B	175	1.5	2	1.5	100	Gore area with Ramp H
2543+40 Ramp B	175	1.5	2	1.5	100	Gore area with ML I-35
4520+43 Ramp D	175	1.5	2	1.5	100	Gore area with ML I-35
4542+96 Ramp D	175	1.5	2	1.5	100	Prior to gore area with ML I-235
5534+00 Loop E	175	1.5	2	1.5	100	Gore area with ML I-235
5549+31 Loop E	175	1.5	2	1.5	100	Gore Area with ML I-35
6512+96 Loop F	175	1.5	2	1.5	100	Gore area with ML I-35
6524+00 Loop F	175	1.5	2	1.5	100	Gore area with ML I-235
7509+08 Loop G	175	1.5	2	1.5	100	Gore area with ML I-35
7525+23 Loop G	175	1.5	2	1.5	100	Gore area with ML I-235

ENGLISH | IOWA DOT | DESIGN TEAM Abrams/Welper/Luong | WARREN\POLK COUNTY | PROJECT NUMBER IMN-035-2(335)61--0E-91 | SHEET NUMBER B.01

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

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2101-0850001	CLEARING AND GRUBBING	ACRE	2	Refer to Tab. 110-17 for locations and quantities.
2	2102-0425071	SPECIAL BACKFILL	CY	43,157.6	Refer to Tab. 100-24, Tab. 112-8 and 112-9 for locations and quantities.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	74,472	Refer to T Sheets. Quantity includes 93,356 CY cut and 74,472 CY fill + 30% shrink (57,259 CY template fill). Excess 18,884 CY shall become the property of the Contractor and wasted at a location off-site. No payment will be made for overhaul.
4	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	18,884	Refer to T Sheets. Quantity includes 93,356 CY cut and 74,472 CY fill + 30% shrink (57,259 CY template fill). Excess 18,884 CY shall become the property of the Contractor and wasted at a location off-site. No payment will be made for overhaul.
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	225	Refer to Tab. 103-7 in the CS sheets for quantities.
6	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	CY	1,624	Refer to Tab 112-9 for quantities. Excavation is for NB shoulder strengthening; depth is estimated at 11 inches for entire shoulder width.
7	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	94,406	Refer to the T Sheets and Tab. 103-10 on sheet CS.1. Quantity includes 94,406 CY stripping and 34,405 CY respread + 40% shrink. Excess 60,001 CY shall become the property of the Contractor and wasted at a location off-site. No payment will be made for overhaul.
8	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	57,259	Refer to T Sheets. Quantity includes 93,356 CY cut and 74,472 CY fill + 30% shrink (57,259 CY template fill). Excess 18,884 CY shall become the property of the Contractor and wasted at a location off-site. No payment will be made for overhaul.
9	2111-8174100	GRANULAR SUBBASE	SY	127,570.2	Refer to Tab. 100-24 and 112-9 for locations and quantities. Quantities tabbed in the "Subbase" column of Tab. 112-9 are in SY (not CY per column header). Refer to B Sheets for details.
10	2115-0100000	MODIFIED SUBBASE	CY	224.87	For use under ramp pavement and shoulders. Refer to B sheets for details and Tab. 110-24 and 112-9 for quantities.
11	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	291.84	For use adjacent to detour pavement. Refer to Tab. 112-8 for locations.
12	2122-5190110	PAVED SHOULDER, P.C. CONCRETE, 11 IN.	SY	5,314.2	Refer to Tab. 112-9 for locations and quantities. Refer to B sheets for details.
13	2122-5190115	PAVED SHOULDER, P.C. CONCRETE, 11.5 IN.	SY	24,099.7	
14	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	625.16	Refer to Tab. 112-9 for locations and quantities. Refer to B sheets for details.
15	2301-1004115	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM-C, CLASS 3I DURABILITY, 11.5 IN.	SY	78,756.8	Refer to Tab. 100-24 for locations and quantities. Refer to B sheets for details.
16	2301-1004120	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM-C, CLASS 3I DURABILITY, 12 IN.	SY	23,600	For southbound paving adjacent to existing 12 inch slab. Refer to Tab. 100-24 for locations and quantities. Refer to B sheets for details.
17	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	119,757.46	
18	2304-0100000	DETOUR PAVEMENT	SY	18,766.8	Item is for median crossover pavement. Refer to Tab. 112-8 for quantities and locations. Refer to U sheets for staking information.

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Reference Notes
19	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	76,767.6	
20	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS	1	Refer to Tab. 110-2 for locations and additional information.
21	2402-0425040	FLOODED BACKFILL	CY	25.3	Refer to Tab. 104-3 for locations and quantities.
22	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	124.5	Refer to Tab. 104-3 for locations and quantities.
23	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	3	
24	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	1	Refer to Tab. 104-3 for locations and quantities.
25	2416-0100036	APRONS, CONCRETE, 36 IN. DIA.	EACH	2	
26	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.	EACH	1	
27	2416-0100060	APRONS, CONCRETE, 60 IN. DIA.	EACH	2	
28	2416-0100072	APRONS, CONCRETE, 72 IN. DIA.	EACH	1	
29	2416-0101036	REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN.	EACH	3	
30	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	48	
31	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	LF	20	
32	2416-1180036	CULVERT, CONCRETE ROADWAY PIPE, 36 IN. DIA.	LF	32	
33	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	LF	8	
34	2416-1180060	CULVERT, CONCRETE ROADWAY PIPE, 60 IN. DIA.	LF	42	
35	2416-1180072	CULVERT, CONCRETE ROADWAY PIPE, 72 IN. DIA.	LF	20	
36	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	16	For culvert Sta. 1264+01.75 SBL. Remove pipe to extend / tee into drain under median crossover. Reinstall upon removal of crossover.
37	2417-1007000	CORRUGATED PIPE CULVERT, CORRUGATED METAL ROADWAY PIPE, 15 INCH DIA	LF	24	Refer to Tab. 104-3 for location and additional information. Also refer to Sheet D.8. Materials, construction, method of measurement, and basis of payment shall be per Section 2417 of the Specifications.
38	2417-1060018	CULVERT, CORRUGATED METAL ROADWAY PIPE, 18 IN. DIA.	LF	242.6	Refer to Tab. 112-8 for locations and quantities. Refer to U sheets for additional information.
39	2417-2307036	DRAIN, CORRUGATED METAL SLOTTED PIPE, 36 IN., W/6 IN. GRATE	LF	1,578.7	

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Reference Notes
40	2417-5895018	BEVELED PIPE AND GUARD, 18 INCH	EACH	7	
41	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	64,536	Refer to Tab. 104-9 in the CS Sheets for quantities, locations, and additional information. Refer to B sheets for details.
42	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	294	Refer to Tab. 104-9 in the CS Sheets for quantities, locations, and additional information.
43	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	1,845	Refer to Tab. 110-14 for locations and quantities.
44	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	274.2	Refer to Tab. 110-7A for locations and quantities.
45	2505-4008130	REMOVAL OF CABLE GUARDRAIL	LF	657.6	Refer to Tab. 110-7B for locations and quantities.
46	2505-6000111	HIGH TENSION CABLE GUARDRAIL	LF	1,730	Refer to Tab. 108-9A for locations and additional information.
47	2505-6000121	HIGH TENSION CABLE GUARDRAIL, END ANCHOR	EACH	14	
48	2507-3250005	ENGINEERING FABRIC	SY	140.9	Refer to Tab. 100-23 in the RC sheets for locations and quantities.
49	2507-6800061	REVETMENT, CLASS E	TON	77.7	Refer to Tab. 100-23 in the RC sheets for locations and quantities.
50	2510-6745850	REMOVAL OF PAVEMENT	SY	111,703.8	Refer to Tab. 110-1 for locations and quantities.
51	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1	
52	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	1,694.84	Refer to Tab. 108-22 and J sheets for locations and additional information.
53	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	1,157.4	
54	2527-9263217	PAINTED PAVEMENT MARKINGS, DURABLE	STA	1,212.95	
55	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	149.95	
56	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	1,212.95	
57	2528-2518000	SAFETY CLOSURE	EACH	2	Refer to Tab. 108-13A and J sheets for locations.
58	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	56,150	Refer to Tab. 108-33, J Sheets, and Detail 8210 in the B Sheets for locations.
59	2528-8400157	TEMPORARY FLOODLIGHTING LUMINAIRE	EACH	2	Refer to Tab. 108-27 and J Sheets for locations.
60	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to the J sheets for traffic control information.
61	2533-4980005	MOBILIZATION	LS	1	- -
62	2548-0000250	DIAMOND GROUND SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	438.5	Refer to Tab. 112-10 for locations and additional information.
63	2551-0000130	TEMP CRASH CUSHION, SEVERE USE (SU)	EACH	16	Refer to Tab. 108-30 and the J sheets for locations and additional information.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
64	2601-2634100	MULCHING	ACRE	50	Perform mulching according to Article 2601.03, E, 2, of the Standard Specifications. Anchor mulch into the soil using mulch anchoring equipment with a minimum of two passes. Item is included for areas requiring reshaping and seedbed preparation. Use mulch that is Certified Noxious Weed Seed Free Mulch as certified by the Iowa Crop Improvement Association or adjacent states Crop Improvement Associations. Mulch Rate: 1 1/2 tons of dry cereal straw or native grass straw per acre.MULCHING Mulching shall be applied as described in standard speification section 2601. After seeding, mulch all areas disturbed by grading except where slope protection has been applied.
65	2601-2636015	NATIVE GRASS SEEDING	ACRE	16.5	Seed all areas outside eight feet adjacent to outside shoulder along mainline, side roads, and infield areas at interchanges with "Native Grass Seeding". Supply all seed for "Native Grass Seeding". Apply all forb seed through the native grass drill wildflower or small seed box. Do not mix and apply Forb seed with the native grass seed. Apply cover crop through the cool season or through cover crop seed box. Do not mix and apply cover crop seed with the native grass seed. Remove seed remaining in the drill at the end of each day. At the completion of all seeding, remove remaining seed from the drill by vacuum or other means. Hand broadcast remaining seed on the project. The Engineer will review the limits with the Contractor prior to seeding. Seeding and seed bed preparation shall be as described in the Standard Specifications Section 2601 and as shown on the plans. See sheet X.X for details. **ONLY USE THE FOLLOWING ON MITIGATION SITES** Seed mixtures for this mitigation plan are subject to the availability of seeds. Any seed substitutions will need the approval of the Engineer. Apply all forb seed through the native grass drill wildflower or small seed box. Do not mix and apply Forb seed with the native grass seed. Apply cover crop through the cool season or through cover crop seed box. Do not mix and apply cover crop seed with the native grass seed. Remove seed remaining in the drill at the end of each day. At the completion of all seeding, remove remaining seed from the drill by vacuum or other means. Hand broadcast remaining seed on the project. The Contractor shall flag the seeding limits and obtain the Engineers review of the limits prior to seeding. No fertilizer shall be required for any of the seed mixtures associated with this Mitigation Plan. All seed weights are shown as Pure Live Seed(PLS).
66	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	33.4	Seed and fertilize all areas 8 foot adjacent to the shoulder mainline, medians, and side according to Article 2601.03, C, 3, of the Standard Specifications. Use ground driven equipment.
67	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	SQ	339	Refer to Tab. 100-22 in the RC Sheets for locations.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
68	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	50	Item is included for disturbed areas. If permanent seeding cannot be placed due to the restrictive planting dates, stabilizing crop will need to be placed on all disturbed areas as temporary erosion control. Stabilizing crop will not be used when the application dates in Section 2601 allows permanent seeding. If stabilizing crop must be used, place immediately following completions of finished grading. It is not necessary to place stabilizing crop in locations that have be covered by Wood Excelsior Mat.
69	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	67.8	Estimate for watering Special Ditch Control, Slope Protection Areas, Turf Reinforcement Mat, or Transition Mat is based on a total of four waterings at a rate of 50 gallons per square. Estimate for watering Sod is based on a total of six waterings at a rate of 100 gallons per square.
70	2601-2643300	MOBILIZATION FOR WATERING	EACH	3	
71	2602-0000020	SILT FENCE	LF	27,500	Refer to Tab. 100-17 in the RC Sheets. The tabulation includes estimated locations for placement of Silt Fence to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
72	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	4,244	Refer to Tab 100-18 in the RC Sheets. The tabulation includes estimated locations for placement of Silt Fence for Ditch Checks to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.
73	2602-0000050	SILT BASINS	EACH	28	Refer to Tab. 100-14 in the RC Sheets. The tabulation includes estimated locations for placement of Silt Basins to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 100% additional quantity for field adjustment and maintenance.
74	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	31,744	This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth.
75	2602-0000080	REMOVAL OF SILT BASINS	EACH	28	
76	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	3,174	This item is included for clean-out and repair of the silt fence and silt fence for ditch checks during the project.
77	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	1,330	Refer to Tab. 100-19 in the RC Sheets. The tabulation includes estimated locations for placement of Perimeter and Slope Sediment Control Device, 12 in. dia., to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
78	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	3,515	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
79	2602-0000370	DITCH CHECK SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	2,185	Refer to Tab. 100-19 in the RC Sheets. The tabulation includes estimated locations for placement of Ditch Check Sediment Control Device, 20 in. dia., to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
80	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	4	
81	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	4	

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
BA-200	10-20-26	Steel Beam Guardrail Components
BA-201	10-18-22	Steel Beam Guardrail Barrier Transition Section (MASH TL-3)
BA-202	10-20-26	Steel Beam Guardrail Bolted End Anchor
BA-205	10-17-23	Steel Beam Guardrail Tangent End Terminal (MASH TL-3)
BA-250	10-20-26	Steel Beam Guardrail Installation at Concrete Barrier or Bridge End Post (MASH TL-3)
BA-351	10-19-21	High Tension Cable Guardrail
BA-401	04-20-21	Temporary Barrier Rail (Precast Concrete)
BA-500	04-20-21	Temporary Crash Cushions Sand Barrel
DR-101	04-18-17	Pipe Culvert (Bedding and Backfill)
DR-102	04-21-15	Pipe Culvert (Cover and Camber)
DR-103	04-21-15	Pipe Culvert (Installation Details)
DR-104	04-19-16	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-121	04-18-23	Connected Pipe Joints
DR-122	10-18-16	Construction of Type 'C' Concrete Adaptors for Pipe Culvert Connections
DR-201	10-17-23	Concrete Aprons
DR-203	04-21-20	Metal Pipe Aprons and Beveled Ends
DR-212	04-21-20	Beveled Pipe and Guard
DR-213	10-18-22	Pipe Apron Guard
DR-303	10-17-17	Subdrains (Longitudinal)
DR-306	10-17-23	Precast Concrete Headwall for Subdrain Outlets
DR-502	10-21-25	Slotted Drain for Median Crossovers
DR-621	04-18-17	Pipe Extension
EC-101	04-19-16	Wood Excelsior Mat for Ditch Protection
EC-201	04-20-21	Silt Fence
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EC-301	10-18-22	Rock Erosion Control (REC)
EC-302	10-18-22	Rock Check Dam
EC-502	04-21-15	Seeding in Rural Areas
EW-101	10-17-17	Embankment and Rebuilding Embankments
EW-102	10-20-15	Allowable Placement of Unsuitable Soil in Embankments
EW-110	10-20-15	Ditch Blocks and Dikes
EW-203	10-20-20	Bridge Berm Grading with Recoverable Slope (Non-Barnroof Section)
EW-301	10-20-26	Guardrail Grading
EW-302	10-20-15	Special Shaping for High Tension Cable Guardrail at Median Obstacles
LI-130	10-17-17	Temporary Floodlighting Luminaires
MI-101	10-20-15	Fencing Layout
MI-103	10-20-15	Deer Fence and Field Fence Construction
PM-110	10-15-24	Line Types
PM-310	04-15-25	Entrance and Exit Ramps
PV-12	10-20-26	Milled Shoulder Rumble Strips
PV-101	10-20-26	Joints
PV-102	10-21-25	PCC Curb Details
PV-121	10-21-25	Jointing PCC Pavement Widening
PV-303	04-21-20	Superelevation Details Ramps
PV-410	10-21-25	Deceleration Taper for 16' Exit Ramp
SI-881	10-20-26	Special Signs for Workzones
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	04-18-23	Work Within 15 ft of Traveled Way
TC-418	04-18-23	Lane Closure on Divided Highway

105_04
10/20/26

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
TC-420	10-16-18	Lane Closure at Ramps

100_01D
8/15/22

PROJECT DESCRIPTION

This project is for reconstruction of NB I-35 from just north of Badger Creek to south of IA 5. Includes grading, paving, culverts, erosion control, and associated work.

111_25
10/20/26

INDEX OF TABULATIONS

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2.0	100_01D	PROJECT DESCRIPTION	C.8
3.0	111_25	INDEX OF TABULATIONS	C.9
4.0	110_17	CLEARING AND GRUBBING	C.10
5.0	110_01	REMOVAL OF PAVEMENT	C.11
6.0	102_05	EXISTING PAVEMENT	C.12
7.0	110_02	REMOVAL OF EXISTING STRUCTURES	C.13
8.0	110_07A	REMOVAL OF STEEL BEAM GUARDRAIL	C.14
9.0	110_07B	REMOVAL OF CABLE GUARDRAIL	C.15
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15.0	108_09A	HIGH TENSION CABLE GUARDRAIL	C.21
16.0	108_13A	SAFETY CLOSURES	C.22
17.0	108_27	TEMPORARY FLOODLIGHTING LUMINAIRES	C.23
18.0	108_22	PAVEMENT MARKING LINE TYPES	C.24-C.25
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CLEARING AND GRUBBING

Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Other Materials Length (FT)	Other Materials Width (FT)	Estimated Units	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks
1.0	1084+50.00	1088+50.00	NB	Trees - Clearing and Grubbing																	0.200		
2.0	1104+65.00	1108+00.00	NB	Trees - Clearing and Grubbing																	0.200		
3.0	1117+38.00	1123+65.00	NB	Trees - Clearing and Grubbing																	0.400		
4.0	1142+00.00	1145+00.00	NB	Trees - Clearing and Grubbing																	0.100		
5.0	1198+00.00	1200+00.00	NB	Trees - Clearing and Grubbing																	0.100		
6.0	1220+60.00	1222+00.00	NB	Trees - Clearing and Grubbing																	0.100		
7.0	1239+25.00	1251+25.00	NB	Trees - Clearing and Grubbing																	0.600		

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a bid item.

Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1078+85.00	1252+40.00	NB	HMA / PCC	77133.3	40.0	Mainline pavement and shoulders
1252+40.00	1265+00.00	NB	HMA/PCC	7681.6	58.0	Mainline pavement and shoulders
1148+79.04	1154+44.83	NB	PCC	1147.6	26.0	Ramp deceleration taper
1186+88.79	1199+23.71	NB	PCC	1087.7	26.0	Ramp acceleration taper
		X-Over	Detour	6266.2		South ramp xover
		X-Over	Detour	8559.2		North ramp xover
		X-Over	Detour	2103.7		North xover
		X-Over	Detour	1837.7		South xover
1137+50.00	1147+78.83	NB	HMA	1143.1	10.0	For shoulder strengthening
1154+41.31	1186+83.75	NB	HMA	3602.7		For shoulder strengthening
1198+38.46	1203+50.00	NB	HMA	568.4	10.0	For shoulder strengthening
1257+64.00	1265+00.00	SB	PCC	572.4	748.0	Existing taper

EXISTING PAVEMENT

Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
1.0	Warren	I-35	NB	63.34	66.83	2015		IMN-035-4(446)58--0E-91	HMA	1.5					SCR	1.5					
2.0						2007		IMN-035-2(335)61--0E-91	HMA	2.0	HMA	2.0			MIL	4.0	Ames Mine	C.LST.			
3.0						1969		I-35-2(95)57--01-91	AAC	1.0	AAC	2.5					Quimby 27-97-20	CR.ST.			
4.0						1958		I-35-2(9)57	PCC	10.0	GSB	4.0					Booneville	GRAVEL	2		

REMOVAL OF EXISTING STRUCTURES

Location	Description	Remarks
1143+22.34	5'x4' RCB	Remove Headwalls RT
1221+66.42	6'x5' RCB	Remove Headwalls RT

REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent.
(2) Includes length of End Terminals and End Anchors.

No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1	NB	1250+23.10	1251+61.50	Median	138.4
2	NB	1250+24.70	1251+60.50	Right	135.8

REMOVAL OF CABLE GUARDRAIL

* Not a bid item
(1) Lane(s) to which the installation is adjacent.

No.	Direction of Traffic (1)	Station From	Station To	Side	Cable Type	Cable Remove (LF)	Post Footings Concrete Remove* (Yes/No)	End Terminal Remove* (No.)	Remarks
1	NB	1251+22.40	1252+88.45	Median	High Tension	166.05	Yes	2	
2	SB	1251+69.50	1256+61.00	Median	High Tension	491.50	Yes	2	

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

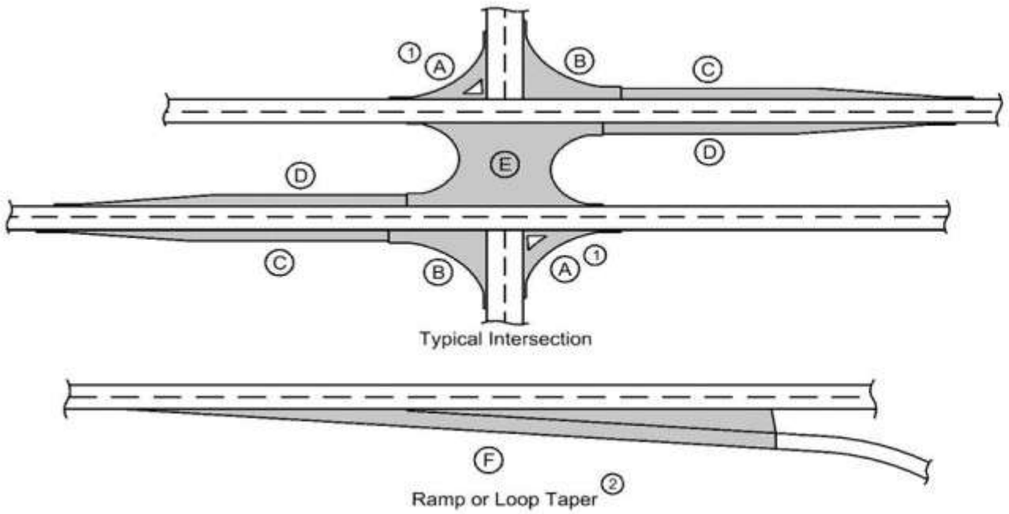
Location Description	Sewer and Work Type	≤ 36 inch Diameter (LF)	> 36 inch Diameter (LF)	Plug Quantity (EA)	* Flowable Mortar or CLSM (CY)	Remarks
1146+14.83 - 1152+65.08 MED - 36" slotted CMP	Storm Sewer - Removal	610.0				Median crossover, Stage 4
1146+14.83 - 1152+65.08 MED - 18" CMP	Sanitary Sewer - Removal	38.0				Also remove 2 beveled pipe and guard
1186+67.77 - 1195+14.59 MED - 36" slotted CMP	Storm Sewer - Removal	815.0				Median crossover, Stage 4
1866+67.77 - 1195+14.59 MED - 18" CMP	Storm Sewer - Removal	38.0				Also remove 2 beveled pipe and guard
1265+35.57 - 1269+04.55 MED - 36" slotted CMP	Storm Sewer - Removal	154.0				Median crossover, Stage 4
1265+35.57 - 1269+04.55 MED - 18" CMP	Storm Sewer - Removal	166.0				Also remove 2 beveled pipe and guard
1258+05.19 - 24" RCP	Storm Sewer - Removal					Remove FES RT
1264+01.75 SBL - 24" RCP	Storm Sewer - Removal	16.0				Salvage; Reinstall Stage 4
1264+01.75 SBL - 15" CMP	Storm Sewer - Removal	24.0				Remove Stage 4

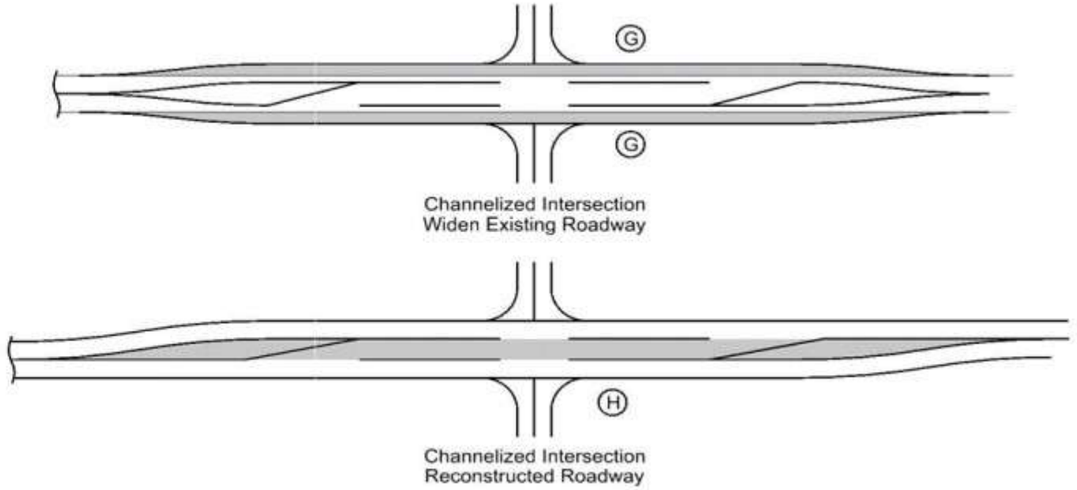
DRAINAGE STRUCTURE BY ROAD CONTRACTOR

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 (ACRE)	Location	Type	Size (IN) (1)	Pipe Classification	Kind of Pipe (2)	Length New Const. (LF)	Length of total that is Trenchless	Bedding Class	Design Cover (H) (FT)	Camber* (DR-102) (FT)	Apron No. (IN)	Apron No. (OUT)	Apron Guard* (DR-213) (No.)	Elbow* (DR-141) (No.)	Diaphragm* (DR-501) (No.)	Tee Section* (DR-142) (No.)	"D" Section* (DR-141) (No.)	Reducer* (No.)	Type 'C' Conn.* (DR-122)	Type 'C' Conn.* (No.)	Connected Pipe Joint* (DR-121)	4" Perforated Subdrain* (FT)	Flow Line Elevation LT.	Flow Line Elevation RT.	Flow Line Elevation Other	Flow Line Elevation Other	Dimensions Lineal Feet Total (Left)	Dimensions Lineal Feet Total (Right)	Dimensions Lineal Feet Extensions	Dimensions Lineal Feet Extensions	Skew Ahead Degrees (Left)	Skew Ahead Degrees (Right)	Dike Location	Dike Station	Dike Elevation	Dike Type	Class 20 (CY)	Flowable Mortar	Floodable Backfill* (A)	Porous Backfill* (B)	Flooded Backfill(A+B)	Remarks
13	1089+35.26	DR-621	36.0	2000D	RCP	8.0		B	4.70		1		1						C-1	1	Type 3			844.75	844.48			68.90		8.00			15.0					9.6		1.4		1.4	
7.5	1100+51.59	DR-621	24.0	2000D	RCP	8.0		B	1.30		1		1						C-1	1	Type 3			856.35	856.06			50.00		8.00								2.9		1.1		1.1	
17	1108+95.29	DR-621	36.0	2000D	RCP	8.0		B	1.80		1		1						C-1	1	Type 3			854.30	854.05			59.20		8.00	15.0							6.9		1.4		1.4	
67	1114+81.44	DR-621	60.0	2000D	RCP	8.0		B	2.80		1		1						C-1	1	Type 3			853.25	852.92			74.90		8.00			29.0					4.8		1.8		1.8	
10.5	1129+53.96	DR-621	30.0	2000D	RCP	8.0		B	1.00		1		1						C-1	1	Type 3			898.35	898.13			64.80		8.00			30.0	Rt.	1129+63.00	889.85	M	3.8		1.2		1.2	
MED	1141+00.00	DR-621	24.0	2000D	RCP	10.0		B											C-1	1	Type 3		918.21	918.05					10.00													SBL. Remove & reinstall FES RT
48	1143+22.34	DR-621	60.0	2000D	RCP	34.0		B	9.00		1		1						C-2	1	Type 3			901.80	901.60			109.80		34.00			29.0					35.6		4.8		4.8	
MED	1201+42.00	DR-621	24.0	2000D	RCP	10.0		B											C-1	1	Type 3			960.34	959.57					10.00													SBL. Remove and reinstall FES RT
55	1202+49.20	DR-621	48.0	2000D	RCP	8.0		B	3.10		1		1						C-1	1	Type 3			950.80	950.50			66.70		8.00								3.9		1.6		1.6	
31	1213+98.82	DR-621	36.0	2000D	RCP	8.0		B	2.10										C-1	1	Type 3			961.90	962.00			55.20		8.00								8.3		1.4		1.4	
31	1214+08.00	DR-621	36.0	2000D	RCP	8.0		B	1.70										C-1	1	Type 3			962.00	962.35			56.00		8.00								7.5		1.4		1.4	
116	1221+66.42	DR-621	72.0	2000D	RCP	20.0		B	4.90			1							C-2	1	Type 3			959.30	959.77			69.20		20.00								13.5		3.6		3.6	
12	1232+74.20	DR-621	30.0	2000D	RCP	12.0		B	1.00										C-1	1	Type 3			973.10	973.30			52.90		12.00								6.4		1.5		1.5	
9	1256+11.23	DR-621	24.0	2000D	RCP	18.0		B	4.80			1							C-1	1	Type 3			969.30	969.54			99.20		18.00			30.0					14.6		1.9	1.9		Clean out pipe
4	1258+05.10	DR-621	24.0	2000D	RCP	22.0		B	6.20			1							C-1	1	Type 3			972.50	972.73			71.90		22.00								6.7	2.2		2.2		Clean out pipe
MED	1264+01.75	DR-621	24.0	2000D	RCP	8.0		B											C-4	1	Type 3			978.03	977.98	977.39				28.00													Salvage FES
			15.0		CMP	24.0		B																																		

PCC PAVEMENT





(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
I-35	NB	1078+85.00	1147+93.96	36.0	6908.96	27635.80									11.5	27635.8		20312.300		32241.80	
I-35	NB	1147+93.96	1153+93.96	36.0	600.00	2400.00						1332.00			11.5	3732.0		2603.200		4132.00	
i-35	NB	1153+93.96	1186+95.00	36.0	3301.04	13204.20									11.5	13204.2		9705.100		15404.90	
I-35	NB	1186+95.00	1199+24.99	36.0	1229.99	4920.00						1793.00			11.5	6713.0		4745.800		7533.00	
I-35	NB	1199+24.99	1260+50.00	36.0	6125.01	24500.00									11.5	26300.0		18007.500		28583.40	
I-35	NB	1260+50.00	1265+00.00		450.00	2100.00									11.5	2100.0		1512.000		2400.00	
Ramp B	NB	2553+94.61	2554+95.00	16.0	100.39	178.50									11.5	178.5			154.60		
I-35	SB	1082+80.00	1088+00.00	12.0	520.00	693.30									11.5	693.3		436.800		866.70	
I-35	SB	1088+00.00	1265+00.00	12.0	17700.00	23600.00									12.0	23600.0		14868.000		29500.00	

MEDIAN CROSSOVERS

Refer to PV-500 Series.

* Not a bid item

Road Identification	Station	Standard Road Plan	Detour Pavement (SY)	Special Backfill (TON)	Granular Shoulder (TON)	Embankment in Place (CY)	Class 10 Excavation (CY)	Class 13 Excavation (CY)	Removal of Pavement (SY)	Saw Cut* (LF)	18" Unclassified Roadway Pipe (LF)	36" CMP Slotted Drain/6" Grate (LF)	Beveled Pipe and Guard (No.)	Remarks
I-35	1060+08.00		1837.7	1.000	133.700								1	South xover
I-35	1146+38.80		6266.2	1973.900							38.4	610.0	2	South ramp xover
I-35	1186+83.80		8559.2	2696.100							38.4	815.0	2	North ramp xover
I-35	1267+37.00		2103.7	796.900	158.200						165.8	153.7	2	North Xover

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.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY) (3)(4)	HMA (TON)	HMA (TON/STA)	Binder (TONS)	Paved Shoulder (3) (SY)	Paved Shoulder at Grdrail (5)(7)(SY)	Reinforced Paved Shoulder(3)	Special Backfill HMA Alt.(3) (TON)	Special Backfill HMA Alt. (TON/STA)	Special Backfill PCC Alt.(3) (TON)	Special Backfill PCC Alt. (TON/STA)	Pavement Scarification (SY)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Const. Alt (3) (STA)	Shoulder Const. Alt HMA (6) (CY)	Shoulder Const. Alt PCC (6) (CY)	Remarks
I-35	NB	1078+85.00	1147+93.96	Right	12			6908.96					9211.9									9211.90			69.09		2215.98	11.5"; Granular Subbase (SY)
I-35	NB	1147+93.96	1148+83.77	Right	12 to 6			89.81					89.8									89.80			0.90		28.81	11.5"; Granular Subbase (SY)
I-35	NB	1148+83.77	1153+93.96	Right	6			510.19					340.1									340.10			5.10		163.64	11.5"; Granular Subbase (SY)
I-35	NB	1153+93.96	1171+37.57	Right	12			1743.61					2324.8									2324.80			17.44		559.25	11.5"; Granular Subbase (SY)
I-35	NB	1171+37.57	1171+87.57	Right	17			50.00					94.4					8.750	17.500			66.70			0.50			11.5"; Granular Subbase (SY)
I-35	NB	1171+87.57	1172+50.56	Right	17.5			62.99					122.5					12.126	19.250			84.00			0.63			11.5"; Granular Subbase (SY)
I-35	NB	1172+50.56	1173+00.56	Right	17			50.00					94.4					8.750	17.500			66.70			0.50			11.5"; Granular Subbase (SY)
I-35	NB	1173+00.56	1186+95.00	Right	12			1394.44					1859.3									1859.30			13.94		447.25	11.5"; Granular Subbase (SY)
I-35	NB	1186+97.14	1196+47.37	Right	6			950.23					633.5									633.50			9.50		304.78	11.5"; Granular Subbase (SY)
I-35	NB	1196+47.37	1199+24.99	Right	6 to 12			277.62					277.6									277.60			2.78		89.04	11.5"; Granular Subbase (SY)
I-35	NB	1199+24.99	1235+98.54	Right	12			3673.55					4898.1									4898.10			36.74		1178.26	11.5"; Granular Subbase (SY)
I-35	NB	1235+98.54	1236+48.54	Right	17			50.00					94.4					8.750	17.500			66.70			0.50			11.5"; Granular Subbase (SY)
I-35	NB	1236+48.54	1236+91.71	Right	17.5			43.17					83.9					8.310	19.250			57.60			0.43			11.5"; Granular Subbase (SY)
I-35	NB	1236+91.71	1237+41.71	Right	17			50.00					94.4					8.750	17.500			66.70			0.50			11.5"; Granular Subbase (SY)
I-35	NB	1237+41.71	1251+50.00	Right	12			1408.29					1877.7									1877.70			14.08		451.70	11.5"; Granular Subbase (SY)
I-35	NB	1251+50.00	1252+00.00	Right	17			50.00					94.4					8.750	17.500			66.70			0.50			11.5"; Granular Subbase (SY)
I-35	NB	1252+00.00	1252+58.24	Right	17.5			58.24					113.2					11.211	19.250			77.70			0.58			11.5"; Granular Subbase (SY)
I-35	NB	1252+58.24	1253+08.24	Right	17			50.00					94.4					8.750	17.500			66.70			0.50			11.5"; Granular Subbase (SY)
I-35	NB	1253+08.24	1265+00.00	Right	12			1191.76					1589.0									1589.00			11.92		382.25	11.5"; Granular Subbase (SY)
I-35	NB	1078+85.00	1265+00.00	Left				18615.00																	186.15		14640.00	
I-35	SB	1082+80.00	1265+00.00	Right				18220.00																	182.20		3038.00	
Ramp B	NB	2553+94.61	2554+95.00	Right	6			100.39					66.9									42.15			1.00			11.5"; Modified subbase (CY)
Ramp B	NB	2553+94.61	2554+95.00	Left	4			100.39					44.6									28.10			1.00			11.5"; Modified subbase (CY)
Ex I-35	NB	1137+50.00	1147+78.83	Right	10			1028.83	349.3				1143.1									1246.10			10.29			11" PCC; granular subbase (SY)
Ex I-35	NB	1154+41.31	1186+83.75	Right	10			3242.44	1100.8				3602.7									4683.50			32.42			11" PCC; granular subbase (SY)
Ex I-35	NB	1198+38.46	1203+50.00	Right	10			511.54	173.7				568.4									738.90			5.12			11" PCC; granular subbase (SY)
Xover	NB	1261+88.36	1267+85.90	Right			3	597.54															83.656	14.000	5.98			
Xover	NB	1266+07.92	1271+39.95	Left			3	532.03															74.484	14.000	5.32			

HIGH TENSION CABLE GUARDRAIL

Refer to BA-351.

1. Lane(s) to which the installation is adjacent.

Item No.	Lane (1)	Station	Side	Offset DO (FT)	Approach CA (FT)	Obstacle CO (FT)	Trailing CT (FT)	Protection Length (CA+CO+CT) (FT)	End Anchor (EA)	Remarks
1	SB	1172+18.40	Median	12.0	126.7	54.5	178.8	360.0	2	Install prior to Stage 3
2	SB	1236+69.06	Median	12.0	125.7	35.5	178.8	340.0	2	Install prior to Stage 3
3	SB	1252+73.00	Median	12.0	127.8	43.4	178.8	350.0	2	Install prior to Stage 3
4	NB	1172+18.40	Median	12.0	120.0	54.5	5.5	180.0	2	
5	NB	1236+69.06	Median	12.0	120.0	35.5	4.5	160.0	2	
6	NB	1252+73.00	Median	12.0	120.0	43.4	6.6	170.0	2	
7	NB	1252+73.00	Right	12.0	120.0	43.4	6.6	170.0	2	

108_13A
3/27/25

SAFETY CLOSURES

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
1059+40.00	1		NB, Stage 3
1265+50.00	1		NB, Stage 3

TEMPORARY FLOODLIGHTING LUMINAIRES

Possible Standard: LI-130

Line No.	Item No.	Station	Offset (FT)	Number Luminaires	Remarks
1.0	1	1059+36.53		1	Stage 3
2.0	2	1061+06.30		1	Stage 3

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BLC6 Factored (STA)	BLW4 Factored (STA)	BLW6 Factored (STA)	CHW10 Factored (STA)	DCY4 Factored (STA)	DLW4 Factored (STA)	DLW6 Factored (STA)	ELW4 Factored (STA)	ELW6 Factored (STA)	ELY4 Factored (STA)	ELY6 Factored (STA)	RLW4 Factored (STA)	RLW6 Factored (STA)	RLY4 Factored (STA)	RLY6 Factored (STA)	Remarks
1.0	I-35 NB	1142+20.00	1198+80.00	NB	Removal of Paint	X	X					9.62				0.42		26.49		37.92						Stage 2
2.0	I-35 NB	1148+33.20	1154+41.31	NB	Removal of Paint			X						13.86								4.07				Stage 2 - Exit
3.0	I-35 NB	1186+83.75	1197+82.00	NB	Removal of Paint			X						14.08								7.36				Stage 2 - Entrance
4.0	I-35 NB	1142+20.00	1145+70.00	NB	Waterborne/Solvent Paint	X	X	X	No					5.84					3.50		3.50					Stage 2
5.0	I-35 NB	1145+70.00	1195+30.00	NB	Waterborne/Solvent Paint	X	X	X	No				12.40						35.92		49.60					Stage 2
6.0	I-35 NB	1149+19.50	1154+41.31	NB	Waterborne/Solvent Paint			X	No					11.16			0.62						5.22			Stage 2 - exit
7.0	I-35 NB	1186+83.75	1195+30.00	NB	Waterborne/Solvent Paint			X	No					6.58									8.46			Stage 2 - Entrance
8.0	I-35 NB	1195+30.00	1198+80.00	NB	Waterborne/Solvent Paint	X	X	X	No					5.84					3.50		3.50					Stage 2
9.0	I-35 NB	1052+97.84	1059+25.00	NB	Removal of Paint	X	X	X			3.13								6.27		6.27					Stage 3
10.0	I-35 SB	1053+36.47	1273+51.65	SB	Removal of Paint	X	X	X			110.08								181.38		220.15					Stage 3
11.0	I-35 SB	1143+87.61	1157+14.00	SB	Removal of Paint			X						12.46									13.26			Stage 3 - entrance
12.0	I-35 SB	1189+46.50	1194+98.00	SB	Removal of Paint			X						12.12			0.62						5.51			Stage 3 - exit
13.0	I-35 NB	1267+85.00	1274+81.56	NB	Removal of Paint	X	X	X			6.97								6.97		6.97					Stage 3
14.0	I-35 NB	1052+97.84	1066+42.05	NB	Wet Retroreflective Removable Tape	X	X	X	No					22.44					13.44		13.44					Stage 3
15.0	I-25 NB	1066+42.05	1259+72.57	NB	Waterborne/Solvent Paint	X	X	X	No				48.33						172.62		193.31					Stage 3
16.0	I-35 NB	1140+91.00	1154+37.23	NB	Waterborne/Solvent Paint			X	No								0.59		3.86				21.38			Stage 3 - exit
17.0	I-35 NB	1186+83.75	1200+29.75	NB	Waterborne/Solvent Paint			X	No								2.97						17.25			Stage 3 - entrance
18.0	I-35 NB	1259+72.57	1274+81.56	NB	Wet Retroreflective Removable Tape	X	X	X	No					25.20					15.09		15.09					Stage 3
19.0	I-35 SB	1054+06.47	1060+51.17	SB	Wet Retroreflective Removable Tape	X	X	X	No					10.77					6.45		6.45					Stage 3
20.0	I-35 SB	1060+51.17	1267+74.01	SB	Waterborne/Solvent Paint	X	X	X	No				51.81						185.62		207.23					Stage 3
21.0	I-35 SB	1152+28.66	1157+14.00	SB	Waterborne/Solvent Paint			X	No					3.71									4.85			Stage 3 - entrance
22.0	I-35 SB	1189+46.50	1194+30.98	SB	Waterborne/Solvent Paint			X	No					9.02			0.71						4.84			Stage 3 - exit
23.0	I-35 SB	1267+74.01	1273+51.65	SB	Wet Retroreflective Removable Tape	X	X	X	No					9.65					5.78		5.78					Stage 3
24.0	I-35 NB	1146+22.00	1154+43.00	NB	Removal of Paint			X						26.84					3.93							Stage 3A - exit
25.0	I-35 NB	1146+22.00	1154+43.00	NB	Waterborne/Solvent Paint			X	No					13.49					7.99							Stage 3A - exit
26.0	I-35 NB	1186+83.75	1193+57.22	NB	Removal of Paint			X						17.38			0.75									Stage 3A - entrance
27.0	I-35 NB	1186+83.75	1193+57.22	NB	Waterborne/Solvent Paint			X	No					20.11			0.75									Stage 3A - entrance
28.0	I-35 NB	1066+42.05	1259+72.57	NB	Removal of Paint	X	X	X					48.33						177.88		193.31					Stage 4
29.0	I-35 NB	1140+91.00	1154+43.00	NB	Removal of Paint			X						8.40			0.59						7.79			Stage 4 -exit
30.0	I-35 NB	1186+83.75	1200+29.50	NB	Removal of Paint			X						16.58			2.25									Stage 4 - entrance
31.0	I-35 SB	1060+51.17	1267+74.01	SB	Removal of Paint	X	X	X					51.81						202.63		207.23					Stage 4
32.0	I-35 SB	1152+28.66	1157+14.00	SB	Removal of Paint			X						3.71									4.85			Stage 4 - entrance
33.0	I-35 SB	1189+46.50	1194+30.98	SB	Removal of Paint			X						9.02			0.71						4.84			Stage 4- exit
34.0	I-35 NB	1052+97.84	1059+25.00	NB	Durable Paint	X	X	X	Yes	15.67	3.13								6.27		6.27					Permanent Markings
35.0	I-35 NB	1078+85.00	1265+00.00	NB	Durable Paint	X	X	X	Yes	447.08	93.08								167.85		186.15					Permanent Markings
36.0	I-35 NB	1147+93.98	1153+93.95	NB	Durable Paint			X	Yes	18.80				12.01			0.79						6.00			Permanent markings - exit
37.0	Ramp B	2553+94.61	2554+94.99		Durable Paint	X		X	Yes	2.00									1.00		1.00					Permanent Markings
38.0	I-35 NB	1186+94.99	1199+24.99	NB	Durable Paint			X	Yes	27.85				15.55									12.30			Permanent Markings - entrance

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BLC6 Factored (STA)	BLW4 Factored (STA)	BLW6 Factored (STA)	CHW10 Factored (STA)	DCY4 Factored (STA)	DLW4 Factored (STA)	DLW6 Factored (STA)	ELW4 Factored (STA)	ELW6 Factored (STA)	ELY4 Factored (STA)	ELY6 Factored (STA)	RLW4 Factored (STA)	RLW6 Factored (STA)	RLY4 Factored (STA)	RLY6 Factored (STA)	Remarks
39.0	I-35 NB	1267+85.00	1274+81.56	NB	Durable Paint	X	X	X	Yes	20.90	6.96								6.97		6.97					Permanent Markings
40.0	I-35 SB	1054+06.47	1272+81.65	SB	Durable Paint	X	X	X	Yes	637.55	218.75								200.05		218.75					Permanent Markings
41.0	I-35 SB	1143+95.15	1157+14.00	SB	Durable Paint			X	Yes	25.28				12.09									13.19			Permanent Markings - entrance
42.0	I-35 NB	1189+46.50	1195+00.56	SB	Durable Paint			X	Yes	17.81				11.59			0.68						5.54			Permanent markings - exit

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.

Lane	Station	Side	Obstacle Width (FT)	Crash Cushion Type	Crash Cushion Quantity	V (FT) (2)	W (FT) (2)	X (FT) (2)	Y (FT) (2)	Z (FT) (2)	Excavation Class 10* (CY)	Embankment in Place* (CY)	Obstacle Description	Remarks
NB	1053+21.00	Left	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 2
SB	1067+53.00	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 2
SB	1268+25.12	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 2
NB	1145+35.83	Left	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 2
NB	1264+90.50	Left	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 2
SB	1269+05.14	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3
SB	1167+68.01	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3 and 3A
SB	1232+46.60	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3 and 3A
SB	1248+10.38	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3 and 3A
NB	1146+73.92	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3 exit ramp
NB	1149+97.56	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3 exit ramp
NB	1187+20.20	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3 entrance ramp
NB	1188+52.54	Right	1.9	Temporary Severe Use									Temporary Barrier Rail	Stage 3 entrance ramp
NB	1146+81.43	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3A exit ramp
NB	1186+60.30	Right	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 3A entrance ramp
NB	1142+96.10	Left	1.9	Temporary Severe Use	1								Temporary Barrier Rail	Stage 4

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 From	Station To	Length (FT)	Barrier Rail Type	Anchored*	Modular Glare Screen System	Remarks
1	1053+21.00	1061+96.00	875.0	Concrete BA-401	No	No	NBL Stage 2
2	1058+78.00	1067+53.00	875.0	Concrete BA-401	No	No	SBL Stage 2
3	1082+00.00	1268+25.12	18625.0	Concrete BA-401	No	No	SBL Stage 2
4	1145+35.83	1195+94.60	5062.5	Concrete BA-401	No	No	NBL Stage 2
5	1264+90.50	1272+40.50	750.0	Concrete BA-401	No	No	NBL Stage 2
6	1059+81.17	1269+05.14	20925.0	Concrete BA-401	Yes	Yes	Stage 3
7	1146+73.92	1148+03.85	150.0	Concrete BA-401	No	No	Stage 3 on x-over
8	1149+97.56	1154+37.23	450.0	Concrete BA-401	No	No	Stage 3 on x-over and NBL
9	1167+68.01	1172+43.01	475.0	Concrete BA-401	No	No	SB Stage 3 and 3A
10	1187+20.20	1188+05.33	100.0	Concrete BA-401	No	No	Stage 3 on x-over and NBL
11	1188+52.54	1189+86.34	162.5	Concrete BA-401	No	No	Stage 3 on x-over and NBL
12	1232+46.60	1236+96.60	450.0	Concrete BA-401	No	No	SB Stage 3 and 3A
13	1248+10.38	1252+35.38	425.0	Concrete BA-401	No	No	SBL Stage 3 and 3A
14	1146+81.43	1154+93.14	645	Concrete BA-401	No	No	On X-over Stage 3A
15	1167+68.01	1172+41.32	475	Concrete BA-401	No	No	SBL Stage 3 & 3A
16	1185+83.96	1194+56.20	875	Concrete BA-401	No	No	On X-over Stage 3A
17	1142+96.10	1195+71.10	5275.0	Concrete BA-401	No	No	NBL Stage 4

103-6
10-17-17

EMBANKMENT WITH MOISTURE CONTROL

Moisture Control is required for all Class 10 fill placed in all locations and depths. Stability berms placed outside the normal foreslope template and topsoil will not require Moisture Control.

103-7
08-01-08

SHRINKAGE DATA

Material	%	Remarks
Topsoil	40%	Shrinkage
Unsuitable Type B	35%	Shrinkage
Unsuitable Type C	35%	Shrinkage
Class 10	30%	Shrinkage
Select Loam (Clay)	20%	Shrinkage
Select Sand	15%	Shrinkage
Boulders		225 CY

103-10
04-18-17

TOPSOIL STRIPPING AND PLACEMENT

Location				Topsoil Stripping Thickness	Topsoil Placement Thickness	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	IN	IN	
I35 - ML	NB	1078+85.00	1090+89.00	10.0	8.0	
I35 - ML	NB	1090+89.00	1091+95.00	24.0	8.0	
I35 - ML	NB	1091+95.00	1093+45.00	12.0	8.0	
I35 - ML	NB	1093+45.00	1100+30.00	5.0	8.0	
I35 - ML	NB	1100+30.00	1106+96.00	7.0	8.0	
I35 - ML	NB	1106+96.00	1114+96.00	12.0	8.0	
I35 - ML	NB	1114+96.00	1117+86.00	6.0	8.0	
I35 - ML	NB	1117+86.00	1120+96.00	8.0	8.0	
I35 - ML	NB	1120+96.00	1130+38.00	12.0	8.0	
I35 - ML	NB	1130+38.00	1186+47.00	4.0	8.0	
I35 - ML	NB	1186+47.00	1191+97.00	12.0	8.0	
I35 - ML	NB	1191+97.00	1201+47.00	4.0	8.0	
I35 - ML	NB	1201+47.00	1202+24.00	5.0	8.0	
I35 - ML	NB	1202+24.00	1212+46.00	4.0	8.0	
I35 - ML	NB	1212+46.00	1214+25.00	8.0	8.0	
I35 - ML	NB	1214+25.00	1233+17.00	12.0	8.0	
I35 - ML	NB	1233+17.00	1252+97.00	4.0	8.0	
I35 - ML	NB	1252+97.00	1258+40.00	8.0	8.0	
I35 - ML	NB	1258+40.00	1259+97.00	5.0	8.0	
I35 - ML	NB	1259+97.00	1265+00.00	8.0	8.0	
I35 SB	MED	1074+21.00	1266+08.00	12.0	8.0	

LICENSED PROFESSIONAL ENGINEER
ADAM D. TYLER P26052
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.

Signature — Date: 3/13/26

Adam Tyler
Printed or Typed Name

My license renewal date is December 31, 20 27

Pages or sheets covered by this seal: CS.1-CS.5, Q.1-Q.8

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.

Location						Longitudinal Subdrain (DR-303)							Subdrain Outlet		Porous* Backfill	Remarks
Line No.	Road or Lane Identification	Station to Station		Side	Depth (D)	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)			DR-303, DR-305 or DR-306			
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length	Station	Standard Road Plan and Type		
					IN	IN	FT	IN	FT		IN	FT			CY	
1	I35 NB - CL	1078+85.00	1082+85.00	RT	42.0	4.0	460.0						1078+85.00	DR-306	42.6	BEGIN GRADING AND PAVING WORK (NB lanes)
													1082+85.00	DR-306		
2	I35 NB - CL	1082+85.00	1086+85.00	RT	42.0	4.0	460.0						1082+85.00	DR-306	42.6	
													1086+85.00	DR-306		
3	I35 NB - CL	1086+85.00	1089+35.00	RT	42.0	4.0	310.0						1086+85.00	DR-306	28.7	
													1089+35.00	DR-306		36" X 8' RCP STA. 1089+35
4	I35 NB - CL	1089+35.00	1093+35.00	RT	42.0	4.0	460.0						1089+35.00	DR-306	42.6	
													1093+35.00	DR-306		
5	I35 NB - CL	1093+35.00	1097+35.00	RT	42.0	4.0	460.0						1093+35.00	DR-306	42.6	
													1097+35.00	DR-306		
6	I35 NB - CL	1097+35.00	1101+35.00	RT	42.0	4.0	460.0						1097+35.00	DR-306	42.6	24" X 8' RCP STA. 1100+52
													1101+35.00	DR-306		
7	I35 NB - CL	1101+35.00	1105+35.00	RT	42.0	4.0	460.0						1101+35.00	DR-306	42.6	
													1105+35.00	DR-306		
8	I35 NB - CL	1105+35.00	1108+95.00	RT	42.0	4.0	420.0						1105+35.00	DR-306	38.9	
													1108+95.00	DR-306		36" X 8' RCP STA. 1108+95
9	I35 NB - CL	1108+95.00	1112+95.00	RT	42.0	4.0	460.0						1108+95.00	DR-306	42.6	
													1112+95.00	DR-306		
10	I35 NB - CL	1112+95.00	1114+81.00	RT	42.0	4.0	246.0						1112+95.00	DR-306	22.8	
													1114+81.00	DR-306		60" X 8' RCP STA. 1114+81
11	I35 NB - CL	1114+81.00	1118+81.00	RT	42.0	4.0	460.0						1114+81.00	DR-306	42.6	
													1118+81.00	DR-306		
12	I35 NB - CL	1118+81.00	1122+81.00	RT	42.0	4.0	460.0						1118+81.00	DR-306	42.6	
													1122+81.00	DR-306		
13	I35 NB - CL	1122+81.00	1126+81.00	RT	42.0	4.0	460.0						1122+81.00	DR-306	42.6	
													1126+81.00	DR-306		
14	I35 NB - CL	1126+81.00	1129+54.00	RT	42.0	4.0	333.0						1126+81.00	DR-306	30.8	
													1129+54.00	DR-306		30" X 8' RCP STA. 1129+54
15	I35 NB - CL	1129+54.00	1133+54.00	RT	42.0	4.0	460.0						1129+54.00	DR-306	42.6	
													1133+54.00	DR-306		
16	I35 NB - CL	1133+54.00	1137+54.00	RT	42.0	4.0	460.0						1133+54.00	DR-306	42.6	
													1137+54.00	DR-306		
17	I35 NB - CL	1137+54.00	1141+54.00	RT	42.0	4.0	460.0						1137+54.00	DR-306	42.6	
													1141+54.00	DR-306		
18	I35 NB - CL	1141+54.00	1143+22.00	RT	42.0	4.0	228.0						1141+54.00	DR-306	21.1	
													1143+22.00	DR-306		60" x 34' RCP STA. 1143+22
19	I35 NB - CL	1143+22.00	1147+22.00	RT	42.0	4.0	460.0						1143+22.00	DR-306	42.6	
													1147+22.00	DR-306		
20	I35 NB - CL	1147+22.00	1149+00.00	RT	42.0	4.0	238.0						1147+22.00	DR-306	22.0	
													1149+00.00	DR-306		Follow Ramp Taper
21	I35 NB - CL	1149+00.00	1153+00.00	RT	42.0	4.0	460.0						1149+00.00	DR-306	42.6	
													1153+00.00	DR-306		Follow Ramp Taper
22	I35 NB - CL	1153+00.00	1155+00.00	RT	42.0	4.0	260.0						1153+00.00	DR-306	24.1	Follow Ramp Taper
													1155+00.00	DR-306		End of Ramp Taper
23	I35 NB - CL	1155+00.00	1159+00.00	RT	42.0	4.0	460.0						1155+00.00	DR-306	42.6	End of Ramp Taper
													1159+00.00	DR-306		
24	I35 NB - CL	1159+00.00	1163+00.00	RT	42.0	4.0	460.0						1159+00.00	DR-306	42.6	
													1163+00.00	DR-306		
25	I35 NB - CL	1163+00.00	1167+00.00	RT	42.0	4.0	460.0						1163+00.00	DR-306	42.6	
													1167+00.00	DR-306		
26	I35 NB - CL	1167+00.00	1171+00.00	RT	42.0	4.0	460.0						1167+00.00	DR-306	42.6	
													1171+00.00	DR-306		
27	I35 NB - CL	1171+00.00	1175+00.00	RT	42.0	4.0	460.0						1171+00.00	DR-306	42.6	
													1175+00.00	DR-306		
28	I35 NB - CL	1175+00.00	1179+00.00	RT	42.0	4.0	460.0						1175+00.00	DR-306	42.6	Begin Ramp D
													1179+00.00	DR-306		Follow Ramp Taper
29	I35 NB - CL	1179+00.00	1188+03.00	RT	42.0	4.0	963.0						1179+00.00	DR-306	89.2	Follow Ramp Taper
													1188+03.00	DR-306		Follow Ramp Taper, 42" X 478' RCP at STA. 1188+03
30	I35 NB - CL	1188+03.00	1192+03.00	RT	42.0	4.0	460.0						1188+03.00	DR-306	42.6	Follow Ramp Taper
													1192+03.00	DR-306		Follow Ramp Taper
31	I35 NB - CL	1192+03.00	1194+44.00	RT	42.0	4.0	301.0						1192+03.00	DR-306	27.9	Follow Ramp Taper
													1194+44.00	DR-306		Follow Ramp Taper, Existing 30" x 275' RCP at STA. 1194+44
32	I35 NB - CL	1194+44.00	1198+54.00	RT	42.0	4.0	470.0						1194+44.00	DR-306	43.5	Follow Ramp Taper
													1198+54.00	DR-306		Follow Ramp Taper, Existing 30" x 270' RCP at STA. 1198+54
33	I35 NB - CL	1198+54.00	1202+49.00	RT	42.0	4.0	455.0						1198+54.00	DR-306	42.1	
													1202+49.00	DR-306		48" X 8' RCP at STA. 1202+49
34	I35 NB - CL	1202+49.00	1204+00.00	RT	42.0	4.0	211.0						1202+49.00	DR-306	19.5	
													1204+00.00	DR-306		Low point
35	I35 NB - CL	1204+00.00	1208+00.00	RT	42.0	4.0	460.0						1204+00.00	DR-306	42.6	
													1208+00.00	DR-306		
36	I35 NB - CL	1208+00.00	1212+00.00	RT	42.0	4.0	460.0						1208+00.00	DR-306	42.6	
													1212+00.00	DR-306		
37	I35 NB - CL	1212+00.00	1213+99.00	RT	42.0	4.0	259.0						1212+00.00	DR-306	24.0	
													1213+99.00	DR-306		36" X 8' TWIN RCP EXTENSION STA. 1213+99 & STA. 1214+08
38	I35 NB - CL	1213+99.00	1217+99.00	RT	42.0	4.0	460.0						1213+99.00	DR-306	42.6	
													1217+99.00	DR-306		
39	I35 NB - CL	1217+99.00	1221+66.00	RT	42.0	4.0	427.0						1217+99.00	DR-306	39.5	

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.

Location						Longitudinal Subdrain (DR-303)							Subdrain Outlet		Porous* Backfill	Remarks
Line No.	Road or Lane Identification	Station to Station		Side	Depth (D)	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)			DR-303, DR-305 or DR-306			
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length	Station	Standard Road Plan and Type		
					IN	IN	FT	IN	FT		IN	FT			CY	
													1221+66.00	DR-306		
40	I35 NB - CL	1221+66.00	1225+66.00	RT	42.0	4.0	460.0						1221+66.00	DR-306	42.6	72" X 20' RCP EXTENSION STA. 1221+66
													1225+66.00	DR-306		
41	I35 NB - CL	1225+66.00	1229+66.00	RT	42.0	4.0	460.0						1225+66.00	DR-306	42.6	
													1229+66.00	DR-306		
42	I35 NB - CL	1229+66.00	1232+74.00	RT	42.0	4.0	368.0						1229+66.00	DR-306	34.1	
													1232+74.00	DR-306		
43	I35 NB - CL	1232+74.00	1236+74.00	RT	42.0	4.0	460.0						1232+74.00	DR-306	42.6	30" X 12' RCP EXTENSION STA. 1232+74
													1236+74.00	DR-306		
44	I35 NB - CL	1236+74.00	1240+74.00	RT	42.0	4.0	460.0						1236+74.00	DR-306	42.6	
													1240+74.00	DR-306		
45	I35 NB - CL	1240+74.00	1244+74.00	RT	42.0	4.0	460.0						1240+74.00	DR-306	42.6	
													1244+74.00	DR-306		
46	I35 NB - CL	1244+74.00	1248+74.00	RT	42.0	4.0	460.0						1244+74.00	DR-306	42.6	
													1248+74.00	DR-306		
47	I35 NB - CL	1248+74.00	1252+74.00	RT	42.0	4.0	460.0						1248+74.00	DR-306	42.6	
													1252+74.00	DR-306		
48	I35 NB - CL	1252+74.00	1256+74.00	RT	42.0	4.0	460.0						1252+74.00	DR-306	42.6	24" X 18' RCP EXTENSION STA. 1256+11
													1256+74.00	DR-306		
49	I35 NB - CL	1256+74.00	1260+74.00	RT	42.0	4.0	460.0						1256+74.00	DR-306	42.6	24" X 22' RCP EXTENSION STA. 1258+05
													1260+74.00	DR-306		
50	I35 NB - CL	1260+74.00	1264+74.00	RT	42.0	4.0	460.0						1260+74.00	DR-306	42.6	
													1264+74.00	DR-306		
51	I35 NB - CL	1264+74.00	1265+00.00	RT	42.0	4.0	86.0						1264+74.00	DR-306	8.0	
													1265+00.00	DR-306		END CONSTRUCTION (NB lanes)
52	I35 NB	1078+85.00	1082+85.00	MED	36.0	4.0	460.0						1078+85.00	DR-306	35.5	BEGIN GRADING AND PAVING WORK (NB median)
													1082+85.00	DR-306		
53	I35 NB	1082+85.00	1086+85.00	MED	36.0	4.0	460.0						1082+85.00	DR-306	35.5	
													1086+85.00	DR-306		
54	I35 NB	1086+85.00	1089+35.00	MED	36.0	4.0	310.0						1086+85.00	DR-306	23.9	
													1089+35.00	DR-306		Sta. 1089+35.26-Proposed 36" x 8' RCP Extension
55	I35 NB	1089+35.00	1093+35.00	MED	36.0	4.0	460.0						1089+35.00	DR-306	35.5	
													1093+35.00	DR-306		
56	I35 NB	1093+35.00	1097+35.00	MED	36.0	4.0	460.0						1093+35.00	DR-306	35.5	
													1097+35.00	DR-306		
57	I35 NB	1097+35.00	1101+35.00	MED	36.0	4.0	460.0						1097+35.00	DR-306	35.5	Sta. 1100+51.59- 24" x 8' RCP Extension
													1101+35.00	DR-306		
58	I35 NB	1101+35.00	1105+35.00	MED	36.0	4.0	460.0						1101+35.00	DR-306	35.5	
													1105+35.00	DR-306		
59	I35 NB	1105+35.00	1108+95.00	MED	36.0	4.0	420.0						1105+35.00	DR-306	32.4	Sta. 1108+95.29-Proposed 36" x 8' RCP Extension
													1108+95.00	DR-306		
60	I35 NB	1108+95.00	1112+95.00	MED	36.0	4.0	460.0						1108+95.00	DR-306	35.5	
													1112+95.00	DR-306		
61	I35 NB	1112+95.00	1114+81.00	MED	36.0	4.0	246.0						1112+95.00	DR-306	19.0	Sta. 1114+81.44-Proposed 60" x 8' RCP Extension
													1114+81.00	DR-306		
62	I35 NB	1114+81.00	1118+81.00	MED	36.0	4.0	460.0						1114+81.00	DR-306	35.5	
													1118+81.00	DR-306		
63	I35 NB	1118+81.00	1122+81.00	MED	36.0	4.0	460.0						1118+81.00	DR-306	35.5	
													1122+81.00	DR-306		
64	I35 NB	1122+81.00	1126+81.00	MED	36.0	4.0	460.0						1122+81.00	DR-306	35.5	Sta. 1129+53.96-Proposed 30" x 8' RCP Extension
													1126+81.00	DR-306		
65	I35 NB	1126+81.00	1130+81.00	MED	36.0	4.0	460.0						1126+81.00	DR-306	35.5	
													1130+81.00	DR-306		
66	I35 NB	1130+81.00	1134+81.00	MED	36.0	4.0	460.0						1130+81.00	DR-306	35.5	
													1134+81.00	DR-306		
67	I35 NB	1134+81.00	1138+81.00	MED	36.0	4.0	460.0						1134+81.00	DR-306	35.5	
													1138+81.00	DR-306		Sta. 1141+00.00 SBL-Proposed 24" x 10' RCP Extension
68	I35 NB	1138+81.00	1142+81.00	MED	36.0	4.0	460.0						1138+81.00	DR-306	35.5	
													1142+81.00	DR-306		
69	I35 NB	1142+81.00	1143+22.00	MED	36.0	4.0	101.0						1142+81.00	DR-306	7.8	
													1143+22.00	DR-306		Sta. 1143+22.34-Proposed 60" x 34' RCP Extension
70	I35 NB	1143+22.00	1147+22.00	MED	36.0	4.0	460.0						1143+22.00	DR-306	35.5	
													1147+22.00	DR-306		
71	I35 NB	1147+22.00	1151+22.00	MED	36.0	4.0	460.0						1147+22.00	DR-306	35.5	
													1151+22.00	DR-306		
72	I35 NB	1151+22.00	1155+22.00	MED	36.0	4.0	460.0						1151+22.00	DR-306	35.5	
													1155+22.00	DR-306		
73	I35 NB	1155+22.00	1159+22.00	MED	36.0	4.0	460.0						1155+22.00	DR-306	35.5	
													1159+22.00	DR-306		
74	I35 NB	1159+22.00	1163+22.00	MED	36.0	4.0	460.0						1159+22.00	DR-306	35.5	
													1163+22.00	DR-306		
75	I35 NB	1163+22.00	1167+22.00	MED	36.0	4.0	460.0						1163+22.00	DR-306	35.5	
													1167+22.00	DR-306		
76	I35 NB	1167+22.00	1171+22.00	MED	36.0	4.0	460.0						1167+22.00	DR-306	35.5	
													1171+22.00	DR-306		
77	I35 NB	1171+22.00	1175+22.00	MED	36.0	4.0	460.0						1171+22.00	DR-306	35.5	
													1175+22.00	DR-306		

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.

Location						Longitudinal Subdrain (DR-303)							Subdrain Outlet		Porous* Backfill	Remarks
Line No.	Road or Lane Identification	Station to Station		Side	Depth (D)	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)			DR-303, DR-305 or DR-306			
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length	Station	Standard Road Plan and Type		
					IN	IN	FT	IN	FT		IN	FT			CY	
78	I35 NB	1175+22.00	1179+22.00	MED	36.0	4.0	460.0						1175+22.00	DR-306	35.5	
													1179+22.00	DR-306		
79	I35 NB	1179+22.00	1183+22.00	MED	36.0	4.0	460.0						1179+22.00	DR-306	35.5	
													1183+22.00	DR-306		
80	I35 NB	1183+22.00	1187+22.00	MED	36.0	4.0	460.0						1183+22.00	DR-306	35.5	
													1187+22.00	DR-306		
81	I35 NB	1187+22.00	1191+22.00	MED	36.0	4.0	460.0						1187+22.00	DR-306	35.5	
													1191+22.00	DR-306		
82	I35 NB	1191+22.00	1195+22.00	MED	36.0	4.0	460.0						1191+22.00	DR-306	35.5	
													1195+22.00	DR-306		
83	I35 NB	1195+22.00	1199+22.00	MED	36.0	4.0	460.0						1195+22.00	DR-306	35.5	
													1199+22.00	DR-306		
84	I35 NB	1199+22.00	1202+49.00	MED	36.0	4.0	387.0						1199+22.00	DR-306	29.9	Sta. 1202+49.29-Proposed 48" x 8' RCP Extension
													1202+49.00	DR-306		
85	I35 NB	1199+22.00	1204+25.00	MED	36.0	4.0	563.0						1199+22.00	DR-306	43.4	Low point at 1204+25
													1204+25.00	DR-306		
86	I35 NB	1204+25.00	1208+25.00	MED	36.0	4.0	460.0						1204+25.00	DR-306	35.5	
													1208+25.00	DR-306		
87	I35 NB	1208+25.00	1212+25.00	MED	36.0	4.0	460.0						1208+25.00	DR-306	35.5	
													1212+25.00	DR-306		
88	I35 NB	1212+25.00	1213+99.00	MED	36.0	4.0	234.0						1212+25.00	DR-306	18.1	Sta. 1213+98.82-Proposed 36" x 8' RCP Extension
													1213+99.00	DR-306		
89	I35 NB	1213+99.00	1214+08.00	MED	36.0	4.0	69.0						1213+99.00	DR-306	5.3	Sta. 1214+08.00-Proposed 36" x 8' RCP Extension
													1214+08.00	DR-306		
90	I35 NB	1214+08.00	1218+08.00	MED	36.0	4.0	460.0						1214+08.00	DR-306	35.5	
													1218+08.00	DR-306		Sta. 1221+66.4-Proposed 72" x 20' RCP Extension
91	I35 NB	1218+08.00	1221+66.00	MED	36.0	4.0	418.0						1218+08.00	DR-306	32.3	
													1221+66.00	DR-306		
92	I35 NB	1221+66.00	1225+66.00	MED	36.0	4.0	460.0						1221+66.00	DR-306	35.5	
													1225+66.00	DR-306		
93	I35 NB	1225+66.00	1229+66.00	MED	36.0	4.0	460.0						1225+66.00	DR-306	35.5	
													1229+66.00	DR-306		
94	I35 NB	1229+66.00	1233+66.00	MED	36.0	4.0	460.0						1229+66.00	DR-306	35.5	Sta. 1232+74.20-Proposed 30" x 12' RCP Extension
													1233+66.00	DR-306		
95	I35 NB	1233+66.00	1237+66.00	MED	36.0	4.0	460.0						1233+66.00	DR-306	35.5	
													1237+66.00	DR-306		
96	I35 NB	1237+66.00	1241+66.00	MED	36.0	4.0	460.0						1237+66.00	DR-306	35.5	
													1241+66.00	DR-306		
97	I35 NB	1241+66.00	1245+66.00	MED	36.0	4.0	460.0						1241+66.00	DR-306	35.5	
													1245+66.00	DR-306		Sta. 1256+11.24-Proposed 24" x 18' RCP Extension
98	I35 NB	1245+66.00	1249+66.00	MED	36.0	4.0	460.0						1245+66.00	DR-306	35.5	Sta. 1258+05.19-Proposed 24" x 22' RCP Extension
													1249+66.00	DR-306		
99	I35 NB	1249+66.00	1253+66.00	MED	36.0	4.0	460.0						1249+66.00	DR-306	35.5	
													1253+66.00	DR-306		
100	I35 NB	1253+66.00	1265+00.00	MED	36.0	4.0	1194.0						1253+66.00	DR-306	92.1	
													1253+66.00	DR-306		END CONSTRUCTION (NB median)
101	I35 SB	1074+21.00	1078+85.00	MED	36.0	4.0	524.0						1074+21.00	DR-306	40.4	BEGIN CONSTRUCTION (SB Median) Approx. Existing Outlet Location
													1265+00.00	DR-306		Approximate Existing Outlet Location
102	I35 SB	1078+85.00	1080+00.00	MED	36.0	4.0	175.0						1078+85.00	DR-306	13.5	Approximate Existing Outlet Location
													1078+85.00	DR-306		Approximate Existing Outlet Location
103	I35 SB	1080+00.00	1085+00.00	MED	36.0	4.0	560.0						1080+00.00	DR-306	43.2	Approximate Existing Outlet Location
													1080+00.00	DR-306		Approximate Existing Outlet Location
104	I35 SB	1085+00.00	1088+00.00	MED	36.0	4.0	360.0						1085+00.00	DR-306	27.8	Approximate Existing Outlet Location
													1085+00.00	DR-306		Approximate Existing Outlet Location
105	I35 SB	1088+00.00	1090+98.00	MED	36.0	4.0	358.0						1088+00.00	DR-306	27.6	Low Point, Approximate Existing Outlet Location
													1090+98.00	DR-306		Approximate Existing Outlet Location
106	I35 SB	1091+02.00	1096+00.00	MED	36.0	4.0	558.0						1091+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1096+00.00	DR-306		Approximate Existing Outlet Location
107	I35 SB	1096+00.00	1097+98.00	MED	36.0	4.0	258.0						1096+00.00	DR-306	19.9	Approximate Existing Outlet Location
													1097+98.00	DR-306		Approximate Existing Outlet Location
108	I35 SB	1098+02.00	1102+98.00	MED	36.0	4.0	556.0						1098+02.00	DR-306	42.9	Approximate Existing Outlet Location
													1102+98.00	DR-306		Approximate Existing Outlet Location
109	I35 SB	1103+02.00	1108+00.00	MED	36.0	4.0	558.0						1103+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1108+00.00	DR-306		Approximate Existing Outlet Location
110	I35 SB	1108+00.00	1112+98.00	MED	36.0	4.0	558.0						1108+00.00	DR-306	43.1	Approximate Existing Outlet Location
													1112+98.00	DR-306		Approximate Existing Outlet Location
111	I35 SB	1113+02.00	1116+50.00	MED	36.0	4.0	408.0						1113+02.00	DR-306	31.5	Approximate Existing Outlet Location
													1116+50.00	DR-306		Approximate Existing Outlet Location
112	I35 SB	1116+50.00	1119+98.00	MED	36.0	4.0	408.0						1116+50.00	DR-306	31.5	Approximate Existing Outlet Location
													1119+98.00	DR-306		Approximate Existing Outlet Location
113	I35 SB	1120+02.00	1124+00.00	MED	36.0	4.0	458.0						1120+02.00	DR-306	35.3	Approximate Existing Outlet Location
													1124+00.00	DR-306		Approximate Existing Outlet Location
114	I35 SB	1124+00.00	1126+98.00	MED	36.0	4.0	358.0						1124+00.00	DR-306	27.6	Approximate Existing Outlet Location
													1126+98.00	DR-306		Approximate Existing Outlet Location
115	I35 SB	1127+02.00	1132+00.00	MED	36.0	4.0	558.0						1127+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1132+00.00	DR-306		Approximate Existing Outlet Location
116	I35 SB	1132+00.00	1133+98.00	MED	36.0	4.0	258.0						1132+00.00	DR-306	19.9	Approximate Existing Outlet Location

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.

Location						Longitudinal Subdrain (DR-303)							Subdrain Outlet			
Line No.	Road or Lane Identification	Station to Station		Side	Depth (D)	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)			DR-303, DR-305 or DR-306		Porous* Backfill	Remarks
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length	Station	Standard Road Plan and Type		
					IN	IN	FT	IN	FT		IN	FT			CY	
													1133+98.00	DR-306		Approximate Existing Outlet Location
117	I35 SB	1134+02.00	1139+00.00	MED	36.0	4.0	558.0						1134+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1139+00.00	DR-306		Approximate Existing Outlet Location
118	I35 SB	1139+00.00	1140+98.00	MED	36.0	4.0	258.0						1139+00.00	DR-306	19.9	Approximate Existing Outlet Location
													1140+98.00	DR-306		Approximate Existing Outlet Location
119	I35 SB	1141+02.00	1146+00.00	MED	36.0	4.0	558.0						1141+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1146+00.00	DR-306		Approximate Existing Outlet Location
120	I35 SB	1146+00.00	1147+98.00	MED	36.0	4.0	258.0						1146+00.00	DR-306	19.9	Approximate Existing Outlet Location
													1147+98.00	DR-306		Approximate Existing Outlet Location
121	I35 SB	1148+02.00	1151+00.00	MED	36.0	4.0	358.0						1148+02.00	DR-306	27.6	Approximate Existing Outlet Location
													1151+00.00	DR-306		Approximate Existing Outlet Location
122	I35 SB	1151+00.00	1154+98.00	MED	36.0	4.0	458.0						1151+00.00	DR-306	35.3	Approximate Existing Outlet Location
													1154+98.00	DR-306		Approximate Existing Outlet Location
123	I35 SB	1155+02.00	1160+00.00	MED	36.0	4.0	558.0						1155+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1160+00.00	DR-306		Approximate Existing Outlet Location
124	I35 SB	1160+00.00	1162+73.00	MED	36.0	4.0	333.0						1160+00.00	DR-306	25.7	Approximate Existing Outlet Location
													1162+73.00	DR-306		Approximate Existing Outlet Location
125	I35 SB	1162+77.00	1168+48.00	MED	36.0	4.0	631.0						1162+77.00	DR-306	48.7	Approximate Existing Outlet Location
													1168+48.00	DR-306		Approximate Existing Outlet Location
126	I35 SB	1168+52.00	1173+98.00	MED	36.0	4.0	606.0						1168+52.00	DR-306	46.8	Approximate Existing Outlet Location
													1173+98.00	DR-306		Approximate Existing Outlet Location
127	I35 SB	1174+02.00	1177+98.00	MED	36.0	4.0	456.0						1174+02.00	DR-306	35.2	Approximate Existing Outlet Location
													1177+98.00	DR-306		Approximate Existing Outlet Location
128	I35 SB	1178+02.00	1183+00.00	MED	36.0	4.0	558.0						1178+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1183+00.00	DR-306		Approximate Existing Outlet Location
129	I35 SB	1183+00.00	1187+50.00	MED	36.0	4.0	510.0						1183+00.00	DR-306	39.4	Approximate Existing Outlet Location
													1187+50.00	DR-306		Approximate Existing Outlet Location
130	I35 SB	1187+50.00	1190+23.00	MED	36.0	4.0	333.0						1187+50.00	DR-306	25.7	Approximate Existing Outlet Location
													1190+23.00	DR-306		Approximate Existing Outlet Location
131	I35 SB	1190+27.00	1194+48.00	MED	36.0	4.0	481.0						1190+27.00	DR-306	37.1	Approximate Existing Outlet Location
													1194+48.00	DR-306		Approximate Existing Outlet Location
132	I35 SB	1194+52.00	1197+50.00	MED	36.0	4.0	358.0						1194+52.00	DR-306	27.6	Approximate Existing Outlet Location
													1197+50.00	DR-306		Approximate Existing Outlet Location
133	I35 SB	1197+50.00	1200+98.00	MED	36.0	4.0	408.0						1197+50.00	DR-306	31.5	Approximate Existing Outlet Location
													1200+98.00	DR-306		Approximate Existing Outlet Location
134	I35 SB	1201+02.00	1203+98.00	MED	36.0	4.0	356.0						1201+02.00	DR-306	27.5	Approximate Existing Outlet Location
													1203+98.00	DR-306		Approximate Existing Outlet Location
135	I35 SB	1204+02.00	1209+48.00	MED	36.0	4.0	606.0						1204+02.00	DR-306	46.8	Approximate Existing Outlet Location
													1209+48.00	DR-306		Approximate Existing Outlet Location
136	I35 SB	1209+52.00	1214+48.00	MED	36.0	4.0	556.0						1209+52.00	DR-306	42.9	Approximate Existing Outlet Location
													1214+48.00	DR-306		Approximate Existing Outlet Location
137	I35 SB	1214+52.00	1219+50.00	MED	36.0	4.0	558.0						1214+52.00	DR-306	43.1	Approximate Existing Outlet Location
													1219+50.00	DR-306		Approximate Existing Outlet Location
138	I35 SB	1219+50.00	1221+98.00	MED	36.0	4.0	308.0						1219+50.00	DR-306	23.8	Approximate Existing Outlet Location
													1221+98.00	DR-306		Approximate Existing Outlet Location
139	I35 SB	1222+02.00	1227+00.00	MED	36.0	4.0	558.0						1222+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1227+00.00	DR-306		Approximate Existing Outlet Location
140	I35 SB	1227+00.00	1232+98.00	MED	36.0	4.0	658.0						1227+00.00	DR-306	50.8	Approximate Existing Outlet Location
													1232+98.00	DR-306		Approximate Existing Outlet Location
141	I35 SB	1233+03.00	1236+00.00	MED	36.0	4.0	357.0						1233+03.00	DR-306	27.5	Approximate Existing Outlet Location
													1236+00.00	DR-306		Approximate Existing Outlet Location
142	I35 SB	1236+00.00	1239+98.00	MED	36.0	4.0	458.0						1236+00.00	DR-306	35.3	Approximate Existing Outlet Location
													1239+98.00	DR-306		Approximate Existing Outlet Location
143	I35 SB	1240+02.00	1245+00.00	MED	36.0	4.0	558.0						1240+02.00	DR-306	43.1	Approximate Existing Outlet Location
													1245+00.00	DR-306		Approximate Existing Outlet Location
144	I35 SB	1245+00.00	1250+00.00	MED	36.0	4.0	560.0						1245+00.00	DR-306	43.2	Approximate Existing Outlet Location
													1250+00.00	DR-306		Approximate Existing Outlet Location
145	I35 SB	1250+00.00	1253+98.00	MED	36.0	4.0	458.0						1250+00.00	DR-306	35.3	Approximate Existing Outlet Location
													1253+98.00	DR-306		Approximate Existing Outlet Location
146	I35 SB	1254+02.00	1257+73.00	MED	36.0	4.0	431.0						1254+02.00	DR-306	33.3	Approximate Existing Outlet Location
													1257+73.00	DR-306		Approximate Existing Outlet Location
147	I35 SB	1257+77.00	1263+98.00	MED	36.0	4.0	681.0						1257+77.00	DR-306	52.5	Approximate Existing Outlet Location
													1263+98.00	DR-306		Approximate Existing Outlet Location
148	I35 SB	1264+02.00	1266+08.00	MED	24.0	4.0	266.0						1264+02.00	DR-306	12.3	Approximate Existing Outlet Location
													1266+08.00	DR-306		END CONSTRUCTION (SB Median) Approx. Existing Outlet Location
149	I35 NB - Ramp B	2553+95.00	2554+95.00	RT	42.0	4.0	160.0						2553+95.00	DR-306	14.8	Ramp B begin
													2554+95.00	DR-306		Ramp B end
	Totals						65679.0							DR-306=298	5397.5	

NOTE 1: RECORDS INDICATE THAT LONGITUDINAL SUBDRAINS EXISTING WITHIN THE I35 MEDIAN AREA. PROPOSED SUBDRAIN OUTLETS SHOULD MATCH EXISTING OUTLET LOCATIONS.
NOTE 2: EXISTING SUBDRAINS FROM PREVIOUS 336 & 413 GRADING AND PAVING PROJECTS NEED TO BE EXTENDED TO THE FORESLOPE. ADD NEW OUTLETS TO EXISTING SUBDRAINS. CARE SHALL BE USED AROUND THESE EXTENSIONS AND EXISTING DRAINS SHALL REMAIN UNDAMAGED AND FUNCTIONAL.
NOTE 3: ALL LONGITUDNIAL SUBDRAINS ARE TYPE 7 WITH PCC OR TYPE 8 WITH HMA (ACC) UNLESS OTHERWISE NOTED IN REMARKS COLUMNS.
NOTE 4: ALL LONGITUDINAL SUBDRAINS MAY BE ADJUSTED BOTH VERTICALLY AND HORIZONTALLY IN THE FIELD AS NECESSARY.

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

FO	CenturyLink
W	Des Moines Water Works
E2	IDOT
T1	
FO2	Aureon Network Services
E1	Mid-American Energy
TV	Mediacom
W2	West Des Moines Water Works
E3	West Des Moines Traffic
FO3	
W3	Warren Water District
CLEAR PER MAP RECEIVED	City of Cumming
NO RESPONSE	Des Moines Metro Wastewater
GHP	ONEOK North System L.L.C.
SAN.	WRA

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. -	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**WARREN** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **D.1**	REVISED

9:47:36 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_Legend.dgn

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

STA 1082+80.00
BEGIN SBL PAVING

STA 1078+85.00
BEGIN NBL CONSTRUCTION

1075+00 | 1080+00 | 1085+00 | 1090+00 | PI 1095+41.49 | PT 1098+41.48 | 1100+00

Interstate 35

Existing ROW

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

PC 1092+41.48

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

INTERSTATE 35
NORTHBOUND LANES

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

Existing Ground Line

-3.00%
+0.95%
+0.95%
+0.06%

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
+0.72% RT Ditch Grade
-0.20% RT Ditch Grade
+0.20% 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
RT +15
857.02
RT +51
856.35

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. -	ENGLISH	DESIGN TEAM Snyder & Associates	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER D.2

9:47:46 AM 7/8/2026 mkjartanson 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
Med
Rt

U.A.C.
U.A.C.
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. -	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **D.3**

9:47:52 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_D01toD08.dgn

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

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

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

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

1135+00 | 1140+00 | 1145+00 | 1150+00 | 2550+00 | 1155+00 | 2555+00 | 1160+00 | 2560+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 | PI 2561+91.81

Ramp B

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: 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

Refer to K sheets for Ramp Information

Refer to U sheets for Crossover Information

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

STA. 256[illegible]33.03
36" x [illegible].57' RCP
(U.A.C.)

INTERSTATE 35
NORTHBOUND LANES

0 100 FEET

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 | +5.37% RT Ditch Grade | +1.21% RT Ditch Grade

RT +80 901.80 | RT +85 901.85 | RT +00 918.75 | RT +00 923.58

VPC = 1159+80.00
EL = 935.06

Proposed Profile Grade

Existing Ground Line

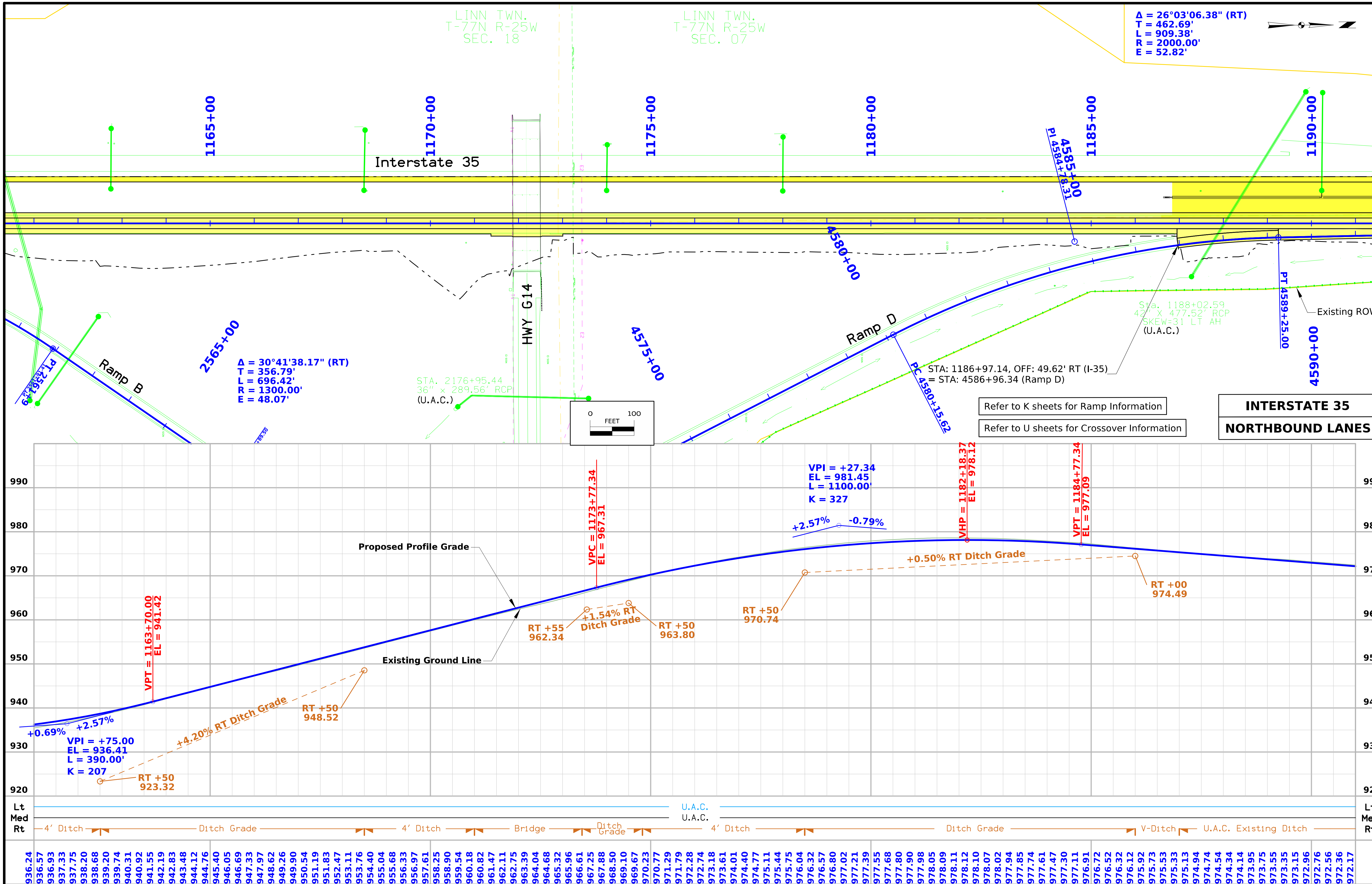
Lt — U.A.C.
Med — U.A.C.
Rt — 4' Ditch | Ditch Grade | U.A.C. Existing Ditch

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

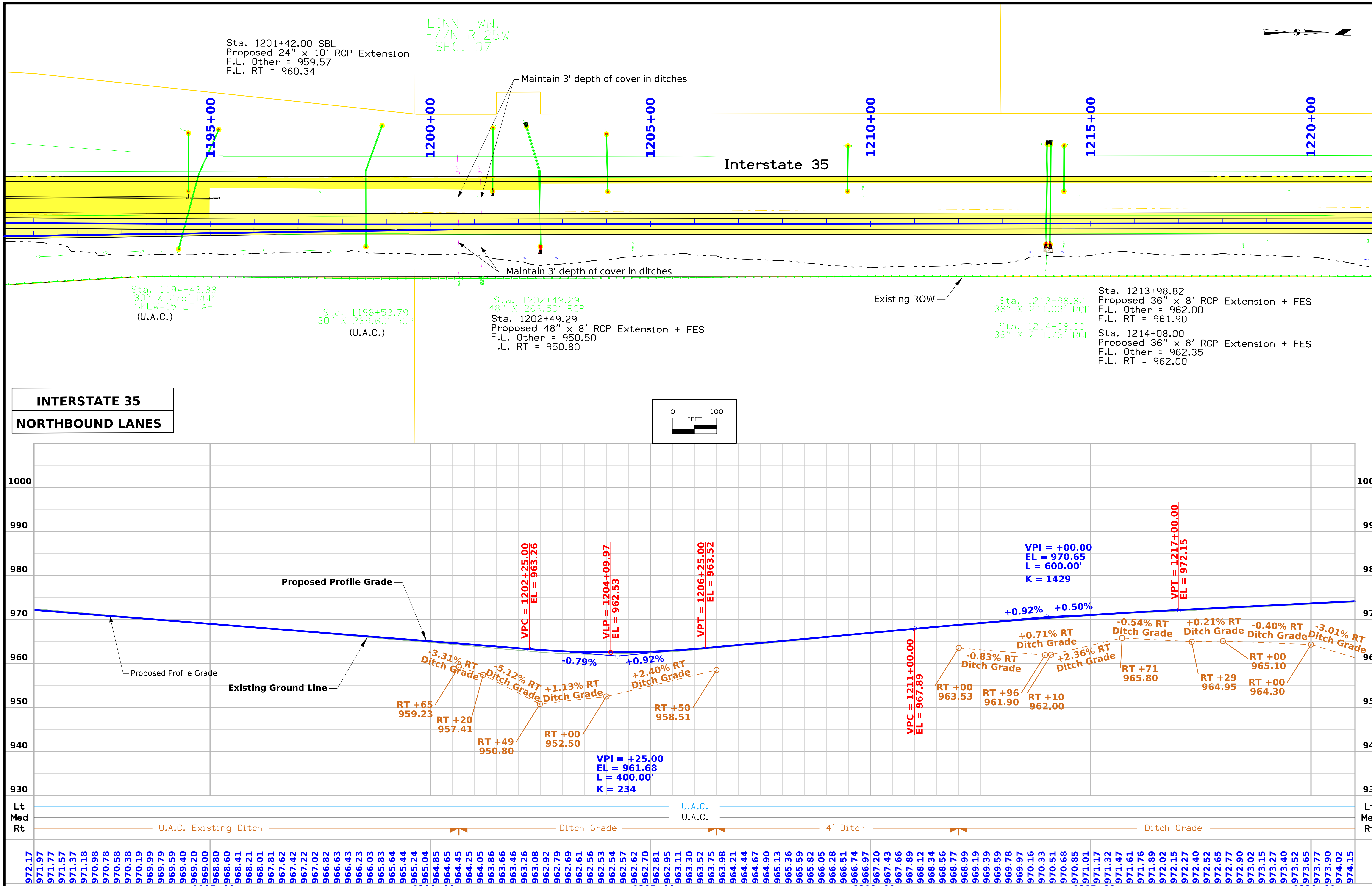
FILE NO. -	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **D.4**

9:47:53 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_D01toD08.dgn



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

9:47:54 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_D01toD08.dgn



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

11:45:32 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_D01toD08.dgn

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

3.19% Ditch Grade

3.41% Ditch Grade

Existing ROW

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

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

VPI = 1248+72.72
EL = 989.30

Proposed Profile Grade

Existing Ground Line

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

-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 U.A.C.
Med U.A.C.
Rt 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. -	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **D.7**

9:48:00 AM 7/8/2026 mkjartanson 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. 06

Sta. 1264+01.75 SBL
Proposed 24" x 8' RCP Extension
Proposed 15" x 24' CMP Extension
F.L. Other = 977.29
F.L. Other = 977.39
F.L. RT = 978.03

STA 1265+00.00
END SBL PAVING

Adams Street

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

Interstate 35

Reconstruct Cable Guard

Sign Truss

1.33% 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

STA 1265+00.00
END NBL CONSTRUCTION

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 U sheets for Crossover Information

INTERSTATE 35
NORTHBOUND LANES

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

VPT = 1252+50.00
EL = 988.17

-0.83% RT Ditch Grade
RT +44 982.67

-6.31% RT Ditch Grade
RT +13 980.24

RT +00 974.75

-3.50% RT Ditch Grade
RT +50 969.50

-0.36% RT Ditch Grade
RT +05 969.30

+0.20% RT Ditch Grade
RT +05 972.50

RT +50 972.59

+2.05% RT Ditch Grade
RT +41 976.50

-0.56% RT Ditch Grade
RT +00 975.05

-1.28% RT Ditch Grade
RT +00 972.49

Proposed Profile Grade

STA. 1265+00.00
ELEV = 980.67
END CONSTRUCTION

Existing Ground Line

Lt	U.A.C.						
Med	U.A.C.						
Rt	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. -	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Warren** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **D.8**

9:48:02 AM 7/8/2026 mkjartanson 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

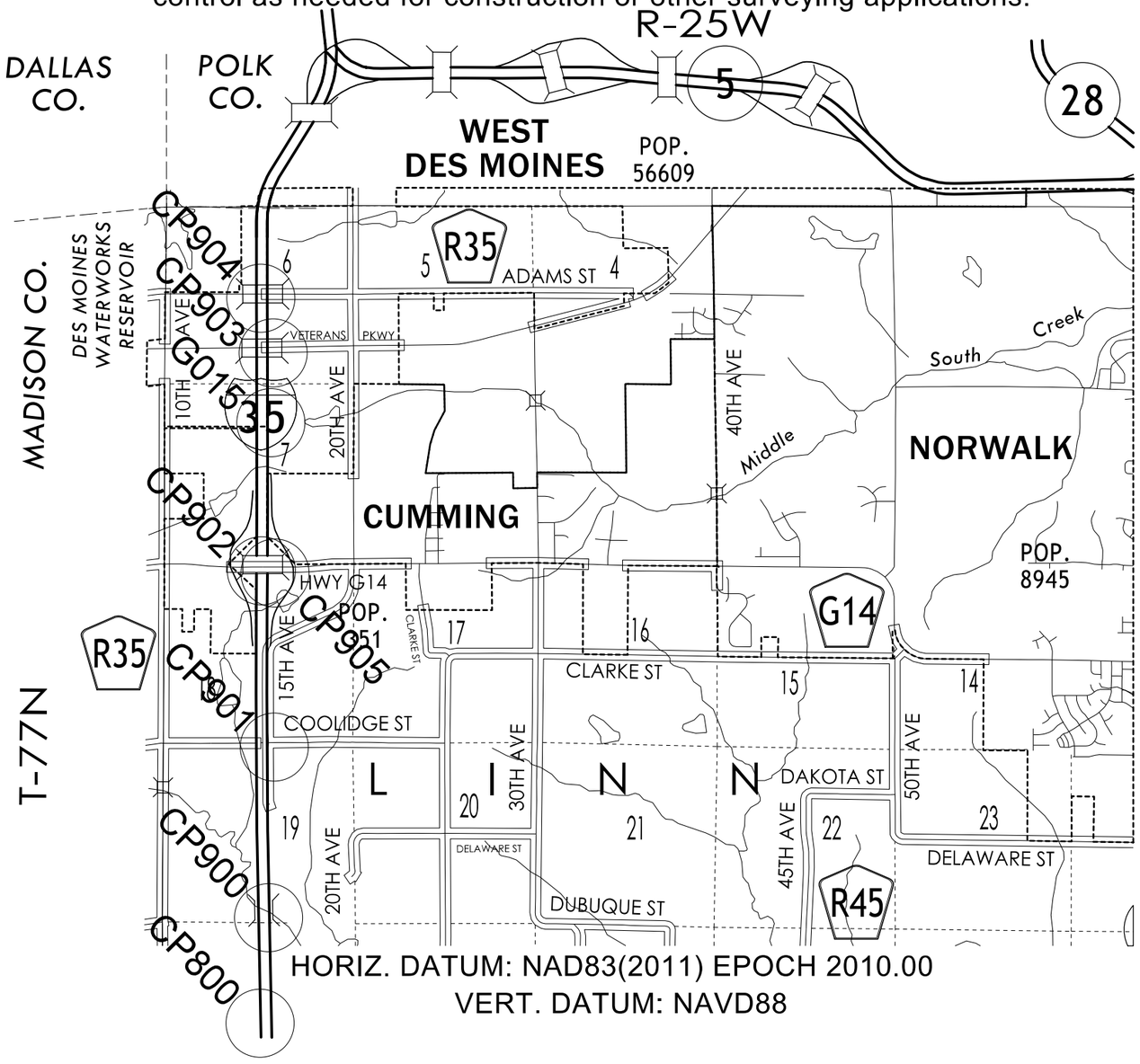
The I-35 alignment for this survey was provided by the State. Information on alignment can be found here: pw:\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\9103503000\PrelimSurvey?5\I-35 alignment description.docx.

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.

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

SPIRAL OR CIRCULAR CURVE DATA

Name	Location	ΔSCS	Horizontal Alignment Data												Remarks
			Spiral Data								Curve Data				
			θS	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	ΔC	T	L	R	E	
1	1095+41.49										0°52'19.42"	300.00	600.00	39421.02	1.14	
2	1135+91.95										0°35'14.09"	299.91	599.81	58522.03	0.77	
3	1196+52.47										0°21'39.00"	296.88	593.77	94282.90	0.47	
4	2558+51.77										30°41'38.17"	356.79	696.42	1300.00	48.07	
5	4587+85.23										8°01'17.07"	140.23	280.00	2000.00	4.91	

SUPERELEVATION DATA

See PV-300 Series

Road Identification	Circular Curve or Spiral Curve Name	Radius	Superelevation Data			Standard Road Plan	Section A-A	Section B-B	Section C-C	Section D-D	Section E-E	Section F-F	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
			e	L	x														
		FT	%	FT	FT														
I-35	1	39421.02	NC	0	0	PV-302							1092+41.48						
													1098+41.48						
	2	58522.03	NC	0	0	PV-302							1132+92.04						
													1138+91.85						
	3	94282.90	NC	0	0	PV-302							1193+55.58						
													1199+49.35						
Ramp B	4	1300.00	6.0	186	62	PV-303	2554+26.79		2554+94.99	2555+50.79						2554+88.79	2554+88.79		
							2562+59.61		2561+91.41	2561+35.61						2561+97.61	2561+97.61		
Ramp D	5	2000.00	5.4	168	62	PV-303	4579+60.02		4580+15.62	4580+66.02						4580+22.46	4580+22.46		
							4589+80.60		4589+25.00	4588+74.60						4589+18.16	4589+18.16		

SEC. 19

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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

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

9:48:19 AM 7/8/2026 mkjartanson 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

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50
FEET

MAINLINE I-35

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

9:48:21 AM 7/8/2026 mkjartanson 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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

0 FEET 50

MAINLINE I-35

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

9:48:22 AM 7/8/2026 mkjartanson 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. 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

ROW Team: SNYDER
ROW #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

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

9:48:24 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

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 CITY

Construction Limits

MIDLLEBROOKHB LLC
LAND CONCEPTS LLC

MIDLLEBROOKHB 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

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

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

9:48:26 AM 7/8/2026 mkjartanson 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

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: SNYDER
ROW #: IMN-035-2(414)67–0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

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

9:48:27 AM 7/8/2026 mkjartanson 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

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

Interstate 35

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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

HY-VEE, INC.

0 FEET 50

MAINLINE I-35

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

9:48:27 AM 7/8/2026 mkjartanson 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 Interstate 35 1193+00 1194+00 1195+00 1196+00 1197+00

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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

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

9:48:28 AM 7/8/2026 mkjartanson 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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

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

9:48:29 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_H01toH13.dgn

MICROSOFT CORPORATION

Interstate 35

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

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

ROW Team: SNYDER
ROW #: IMN-035-2(414)67–0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

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

9:48:31 AM 7/8/2026 mkjartanson 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
- 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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

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

9:48:33 AM 7/8/2026 mkjartanson 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

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
ROW #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 FEET 50

MAINLINE I-35

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

9:48:35 AM 7/8/2026 mkjartanson 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
- 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 #: IMN-035-2(414)67--0E-77
Plan Date: 01/31/23
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 50 FEET

MAINLINE I-35

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

9:48:36 AM 7/8/2026 mkjartanson 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 1082+80.00 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 separated by temporary barrier rail. Head on traffic ends at STA 1264+00.00 with temporary barrier rail terminating with a crash cushion at STA 1269+05.14.
-Temporary barrier rail placed with a 2' buffer from Northbound outside 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+71.80 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.

108_26A
8/15/22

STAGING NOTES

-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, 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 separated 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.
-Temporary barrier rail placed with a 2' buffer from the proposed stage 3A paving from STA 1146+81.43 to STA 1154+93.14 & STA 1185+83.96 to STA 1194+56.01.
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 1154+01.40
-Remove pavement of existing deceleration taper from STA 1147+40.57 to STA 1154+01.40.
-Remove pavement of existing Northbound left lane and shoulder and pavement needed from the temporary median crossover from STA 1186+83.78 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 1154+01.40.
-Grade and Pave the exit ramp deceleration taper from STA 1152+09.86 to STA 1154+01.57.
-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 1186+83.78 to STA 1189+71.80.
-Grade and Pave the entrance ramp acceleration taper from STA 1186+60.30 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.
-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.

108_23A
8/15/22

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.

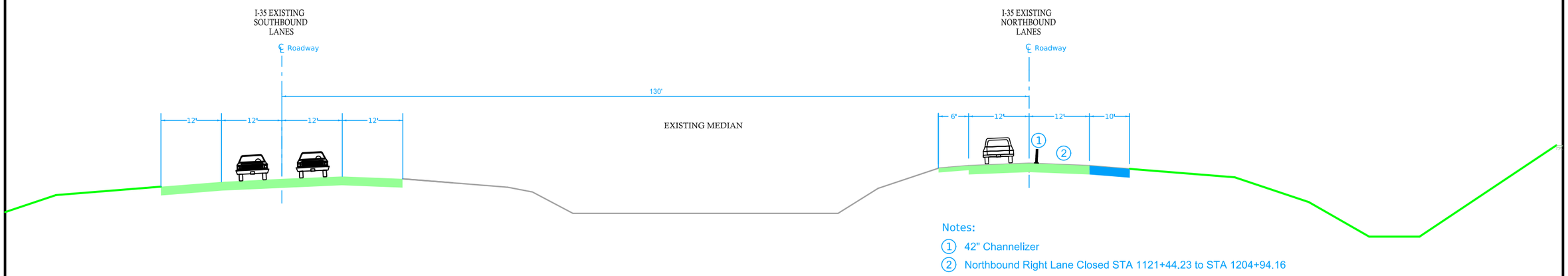
COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
IM-NHS-035-2(465)61--03-91	Alternate Pavement Types - Mainline

I-35

STAGE 1



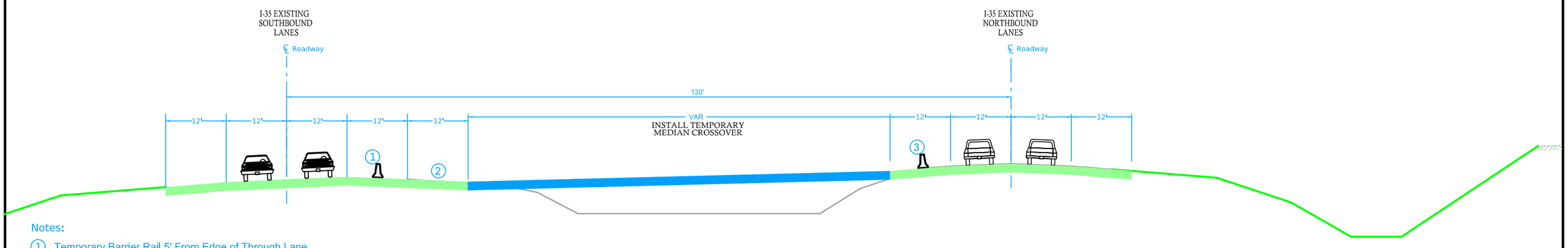
Notes:

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



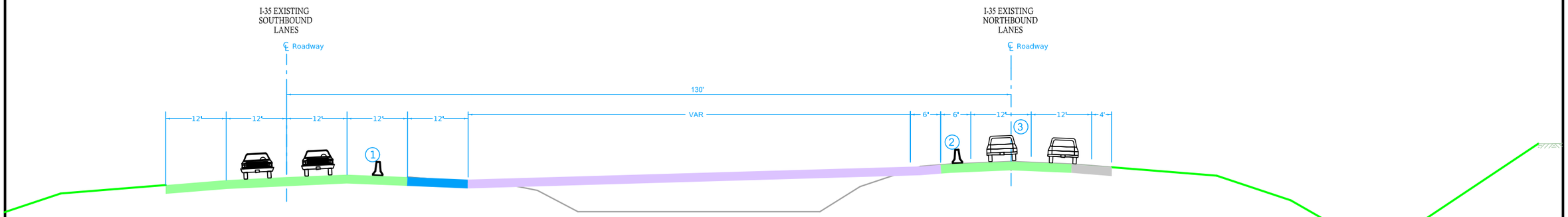
Notes:

1. Temporary Barrier Rail 5' From Edge of Through Lane
2. Southbound 12' Left Lane Constructed with project IM-NHS-035-2(510)61--03-91
3. Temporary Barrier Rail 2' From Edge of Through Lane

STAGE 2 CONSTRUCTION
STA. 1054+36.14 to STA. 1066+28.74
Median Pavement Construction

I-35

STAGE 2



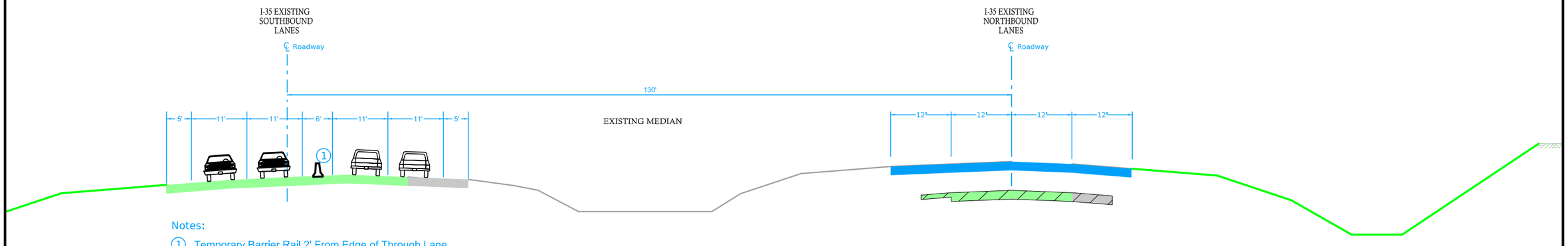
Notes:

1. Temporary Barrier Rail 5' From Edge of Through Lane
2. Temporary Barrier Rail 2' From Edge of Through Lane
3. Northbound Traffic Lanes Shift 6' to the East

STAGE 2 CONSTRUCTION
STA. 1142+90.00 to STA. 1196+00.00,
and STA. 1261+15.25 to STA. 1272+06.12
Median Pavement Construction
Southbound Lane Construction

I-35

STAGE 3/3A



Notes:

1. Temporary Barrier Rail 2' From Edge of Through Lane

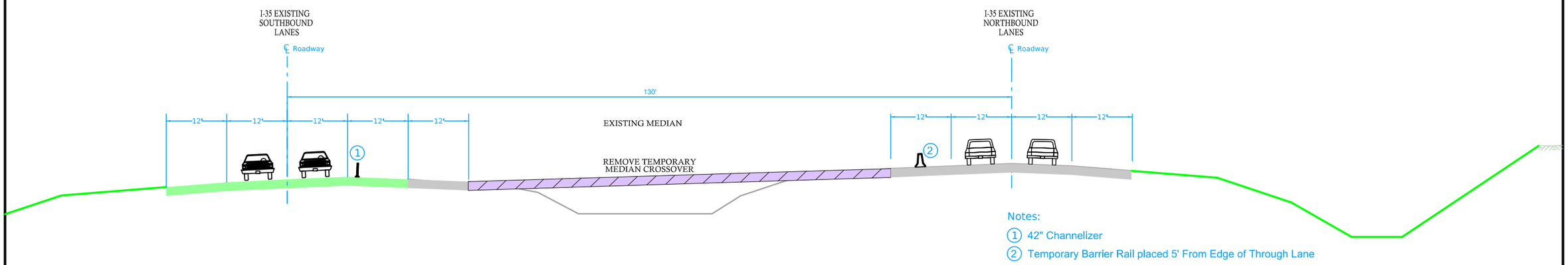
STAGE 3 CONSTRUCTION/STAGE 3A CONSTRUCTION
STA. 1078+85.00 to STA. 1265+00.00
Northbound I-35 Lane Construction

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

9:50:36 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J05toJ08.dgn

I-35

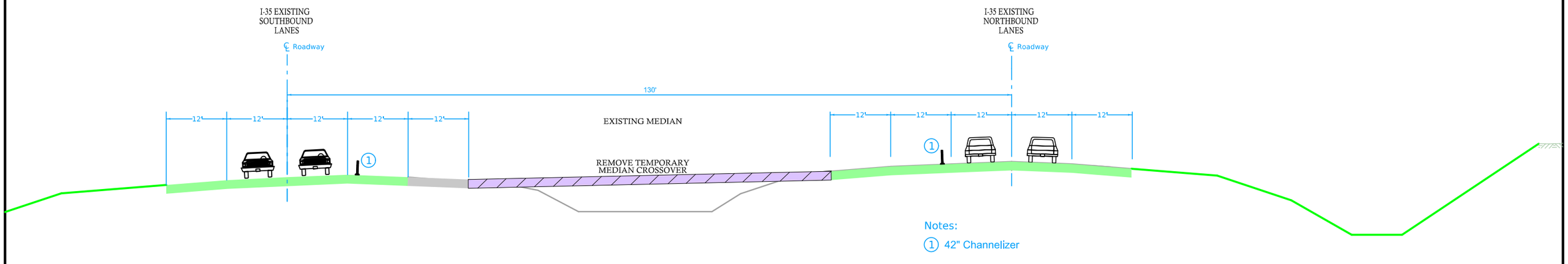
STAGE 4



STAGE 4 CONSTRUCTION
STA. 1054+36.14 to 1066+28.74, 1140+93.73 to STA. 1152+49.08
and STA. 1186+83.77 to STA. 1202+46.25
Temporary Median Crossover Removal

I-35

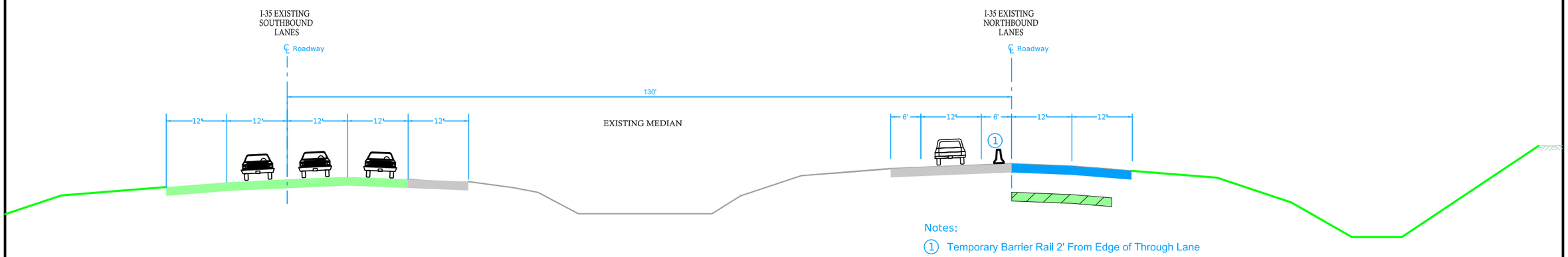
STAGE 4



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

0 100
FEET

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"

STAGE 1
2 of 4

0 100
FEET

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"

FILE NO. -	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 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

ROAD WORK AHEAD
W20-1
48" x 48"

ONE LANE ROAD AHEAD
W20-4
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
100'
5 DEVICES
STA 1204+94.21

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

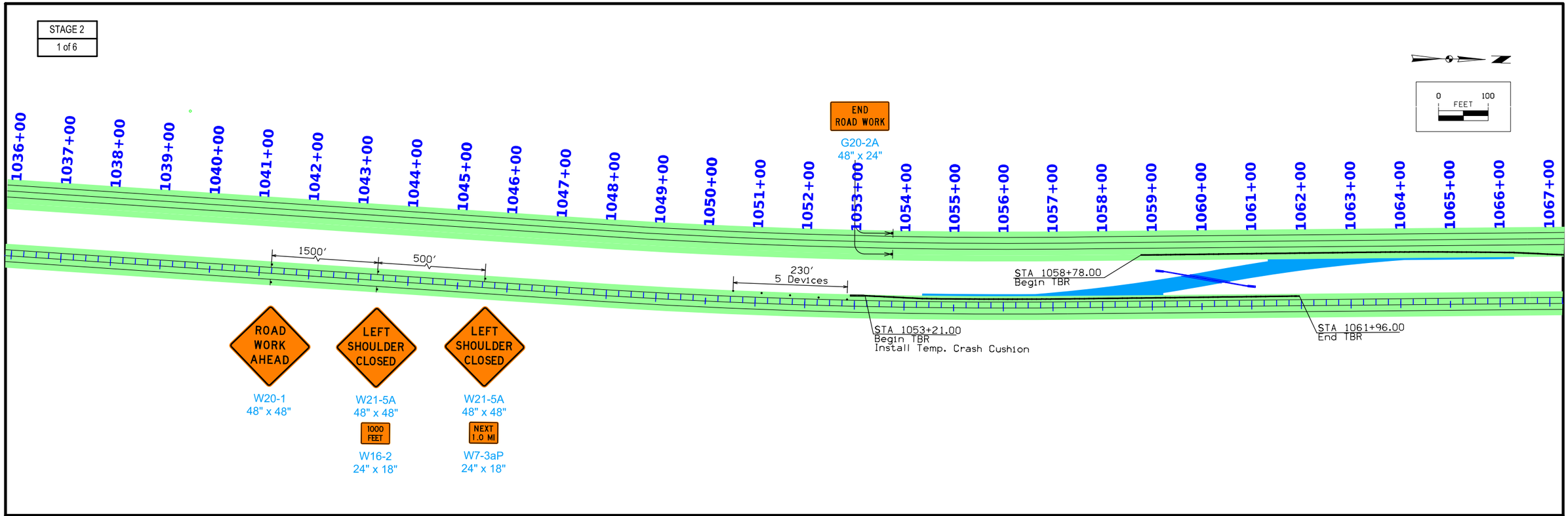
SPEED LIMIT 70
R2-1
48" x 60"

0 100 FEET

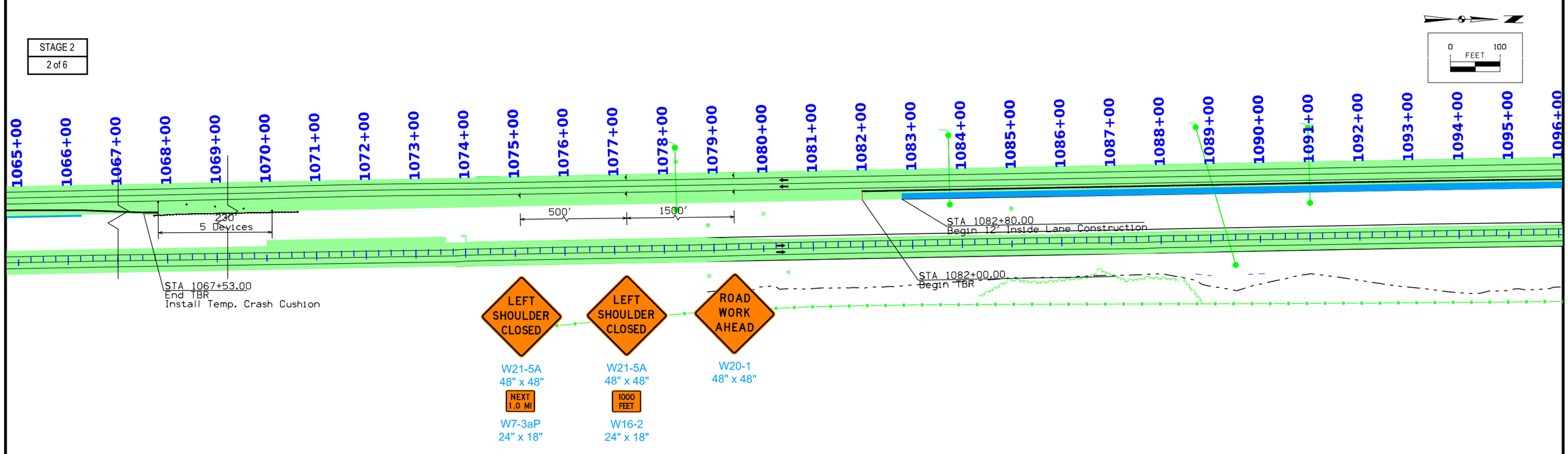
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STAGE 2
1 of 6



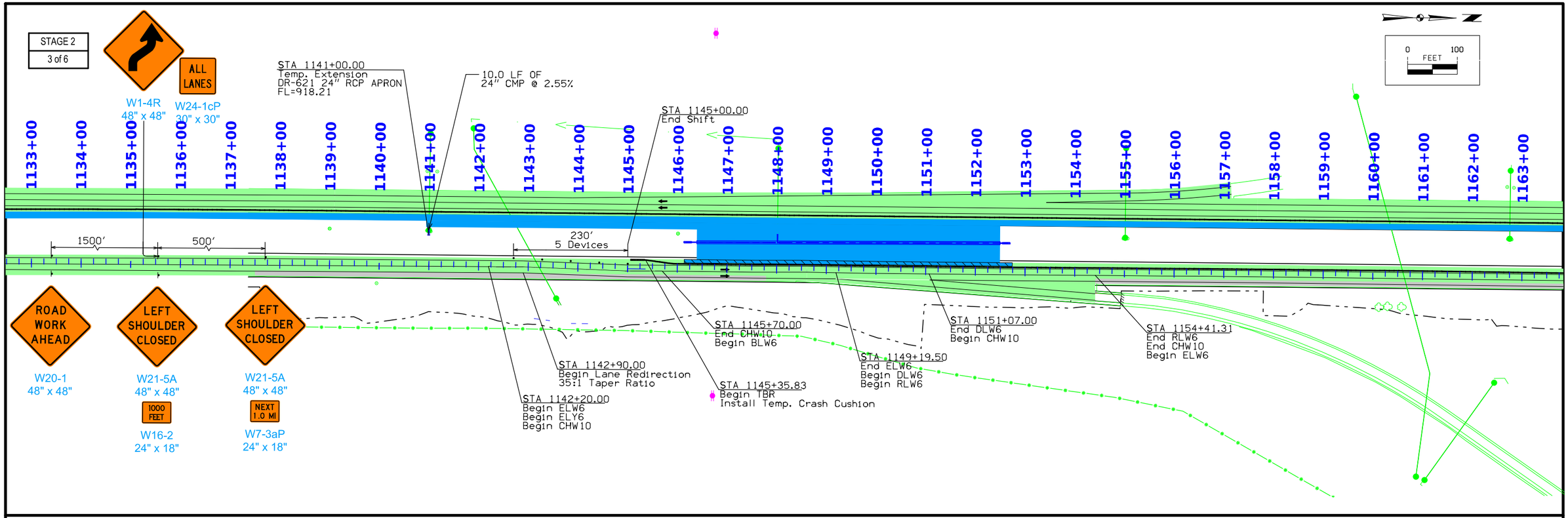
STAGE 2
2 of 6



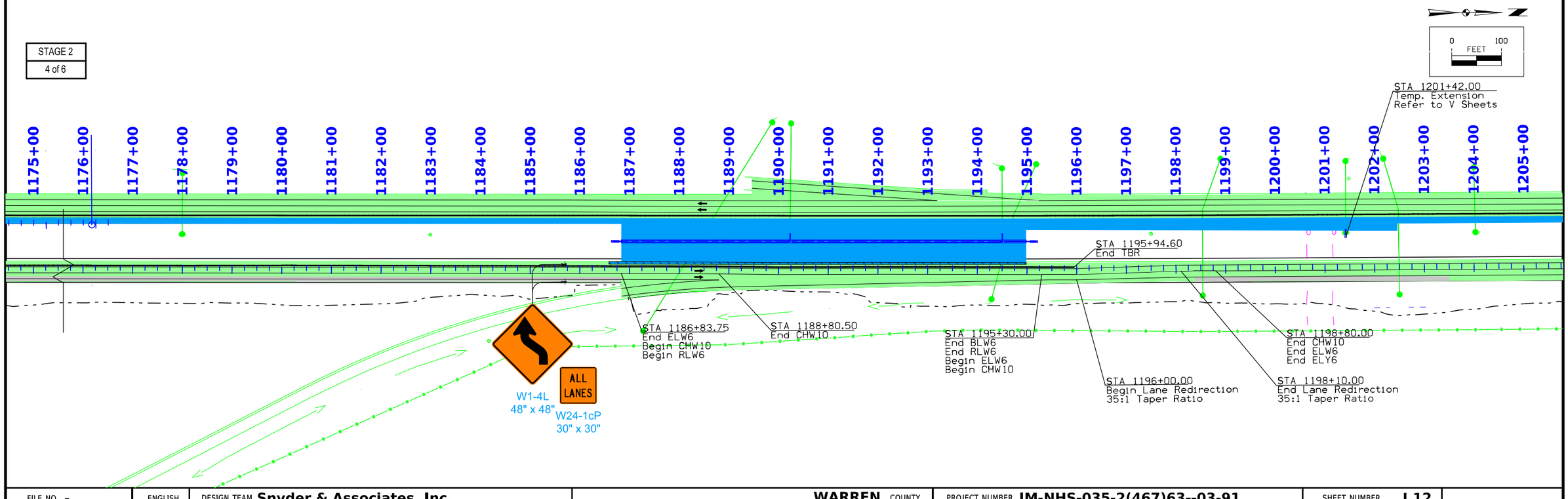
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STAGE 2
3 of 6



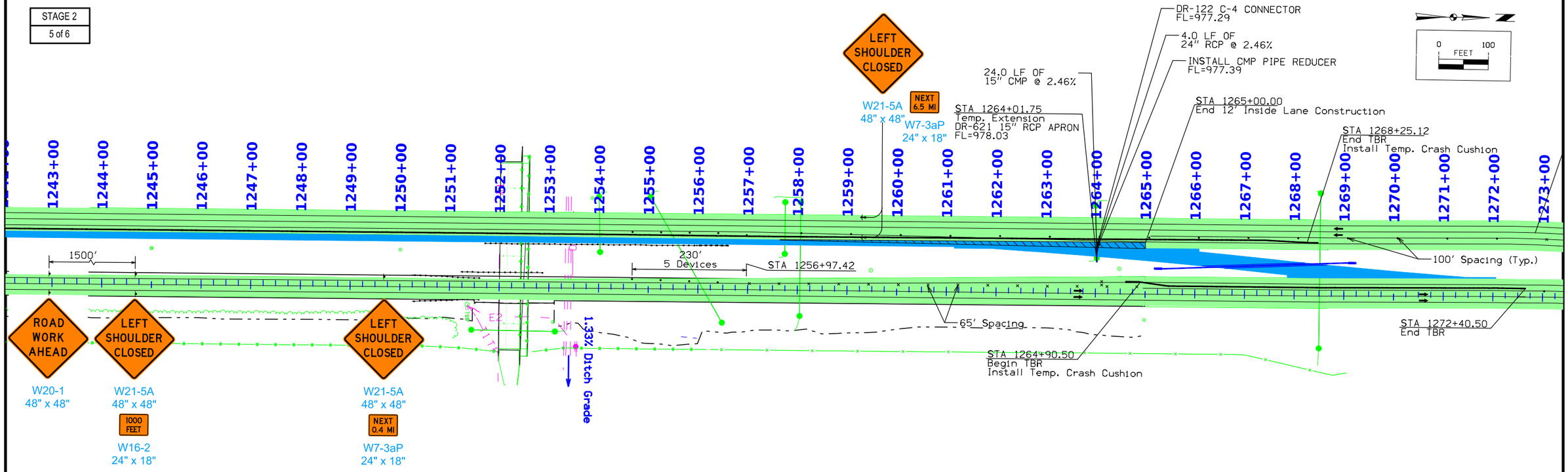
STAGE 2
4 of 6



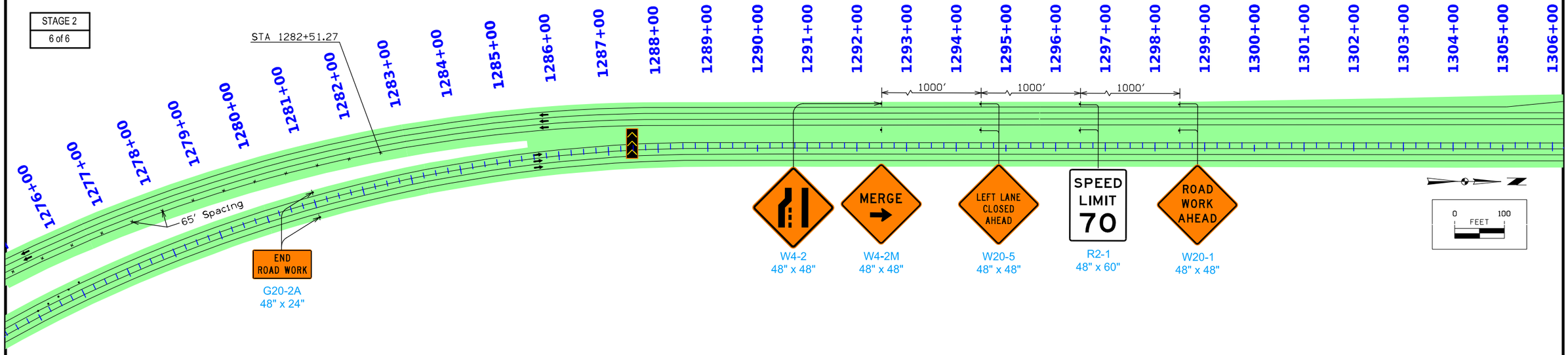
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9:50:52 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J11toJ13.dgn

STAGE 2
5 of 6



STAGE 2
6 of 6



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

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STAGE 3
1 of 7

1042+00 1043+00 1044+00 1045+00 1046+00 1047+00 1048+00 1049+00 1050+00 1051+00 1052+00 1053+00 1054+00 1055+00 1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00 1071+00 1072+00

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

STA 1053+36.47
Begin ELW6
Begin ELY6
Begin CHW10
Begin Tape

STA 1054+06.47
Begin 571:1 Taper

STA 1059+81.17
End Taper

STA 1060+51.17
Begin BLW6
End CHW10
End Tape/Begin Paint

STA 1061+06.30
Temporary Floodlighting

STA 1066+42.05
End Tape
Begin BLW6
Begin ELW6
Begin ELY6 Paint

UAC guardrail installed with (465) project

STA 1059+81.17
Begin TBR

ROAD WORK AHEAD
W20-1
48" x 48"

1000'

STA 1044+81.96
Speed Feedback Sign

W1-4L
48" x 48"

ALL LANES
W24-1cP
30" x 30"

RAMP
35
M.P.H.
W13-3
48" x 60"

STA 1052+97.84
Begin Removal BLC6
Begin Removal ELW6
Begin Removal ELY6
Begin ELW6
Begin ELY6
Begin BLW6
Begin Tape

40' Spacing

STA 1059+36.53
Temporary Floodlighting

STA 1059+25.00
End Removal BLC6
End Removal ELW6
End Removal ELY6

W1-4L
48" x 48"

ALL LANES
W24-1cP
30" x 30"

0 100
FEET

STAGE 3
2 of 7

G20-23A
36" x 12"
65
EXIT

SPEED LIMIT
70
R2-1
48" x 60"

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 57+00 1158+00 1159+00

STA 1142+71.18
End Taper

STA 1142+71.15
End DLW6
Begin SLW6

G20-23
48" x 48"

40' Spacing

STA 1152+28.66
End ELW6
Begin RLW6

STA 1156+02.65
Begin CHW10

STA 1157+14.00
End CHW10
End RLW6

0 100
FEET

15:1 Taper

STA 1140+91.00
Begin Taper

12' Deceleration Lane

20'

20' Spacing

24' Width

STA 1153+83.72
Begin

EXIT
500 FT
G20-22
72" x 42"

STA 1140+91.00
End ELW6
Begin DLW6
Begin CHW10

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

STA 1146+73.92
Begin TBR
Install Temp. Crash Cushion

STA 1146+56.84
End SLW6
Begin CHW10

20' Spacing

STA 1154+37.23
End TBR

STA 1154+38.00
End CHW10

STA 1147+20.00
Temporary Floodlighting

STA 1148+03.85
End TBR

STA 1149+97.56
Begin TBR
Install Temp. Crash Cushion

FILE NO. -	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
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

ROAD WORK AHEAD
W20-1
48" x 48"

DO NOT ENTER
R5-1
30" x 30"

W4-1
48" x 48"

STA 1189+46.50
Begin CHW10
Begin RLW6

STA 1191+28.94

STA 1192+16.21
End CHW10
Begin DLW6

STA 1194+30.98
End DLW6
End RLW6

20' Spacing

20'

12' Acceleration Lane

STA 1191+28.94
Begin DLW6

STA 1197+29.28
Begin Taper

STA 1189+86.34
End TBR

STA 1191+27.54
Temporary Floodlighting

STA 1189+71.80

STA 1189+23.78

STA 1190+65.79
End YLW2

STA 1190+63.04
Begin YLW2

20' Spacing

STA 1188+52.54
Begin TBR
Install Temp. Crash Cushion

STA 1188+05.33
End TBR

STA 1187+58.25

STA 1186+83.75
Begin CHW10

STA 1187+20.20
Begin TBR
Install Temp. Crash Cushion

STAGE 3
4 of 7

SPEED LIMIT 70
R2-1
48" x 60"

0 FEET 100

1192+16.21
CHW10
in DLW6

STA 1194+30.98
End DLW6
End RLW6

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

1191+28.94
n DLW6

STA 1197+29.28
Begin Taper

1191+27.54
porary Floodlighting

190+65.79
LW2

90+63.04
YLW2

STA 1200+29.75
End Taper
End RLW6
Begin ELW6

STA 1200+29.50
Begin BLW6

SAN

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

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STAGE 3
5 of 7

SPEED LIMIT 70

R2-1
48" x 60"

0 100 FEET

ALL LANES

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

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 1232+46.60
Begin TBR
Install Temp. Crash Cushion

STA 1236+96.60
End TBR

STA 1248+10.38
Begin TBR
Install Temp. Crash Cushion

STA 1252+35.38
End TBR

STAGE 3
6 of 7

ALL LANES

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

STA 1259+72.57
Begin Shift
End Paint
Begin ELW6
Begin ELY6
Begin CHW10
Tape

STA 1266+13.22
Temporary Floodlighting

STA 1267+74.01
End BLW6
Begin CHW10
End Paint/Begin Tape

STA 1268+44.01
Begin 438:1 Shift

STA 1269+05.14
End TBR
Install Temp. Crash Cushion

STA 1272+81.65
End Shift

100' Spacing (Typ.)

0 100 FEET

ALL LANES

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

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

STA 1260+00.00
End BLW6
Begin CHW10

STA 1259+94.88
Temporary Floodlighting

40' Spacing

40' Spacing
STA 1273+51.65
End ELY6
End ELW6
End CHW10
Tape

STA 1274+81.56
End Shift

STA 1274+81.56
End ELY6
End ELW6
End CHW10

65' Spacing

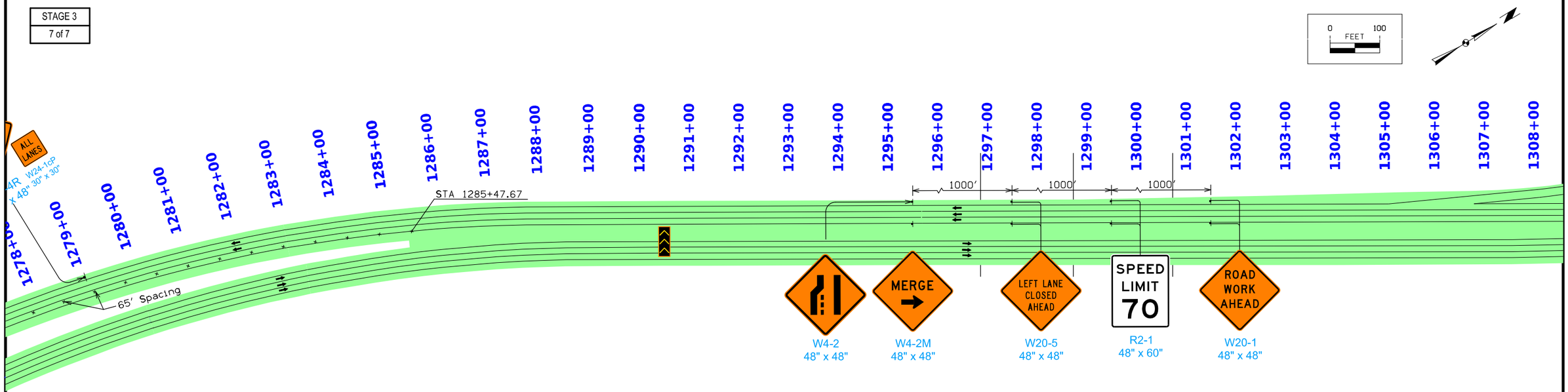
END ROAD WORK

G20-2A
48" x 24"

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

9:51:00 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J14toJ17.dgn

STAGE 3
7 of 7



FILE NO. -	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**WARREN** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **J.17**

9:51:01 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J14toJ17.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
40' Spacing
20'
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 1154+01.40
STA 1154+93.14
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+41.32
End TBR

20' Spacing
20' Spacing
20'
12' Acceleration Lane
STA 1189+71.80
STA 1186+83.78
STA 1185+83.96
Begin TBR
Install Temp. Crash Cusion
STA 1194+56.20
End TBR

ROAD WORK AHEAD
W20-1
48" x 48"

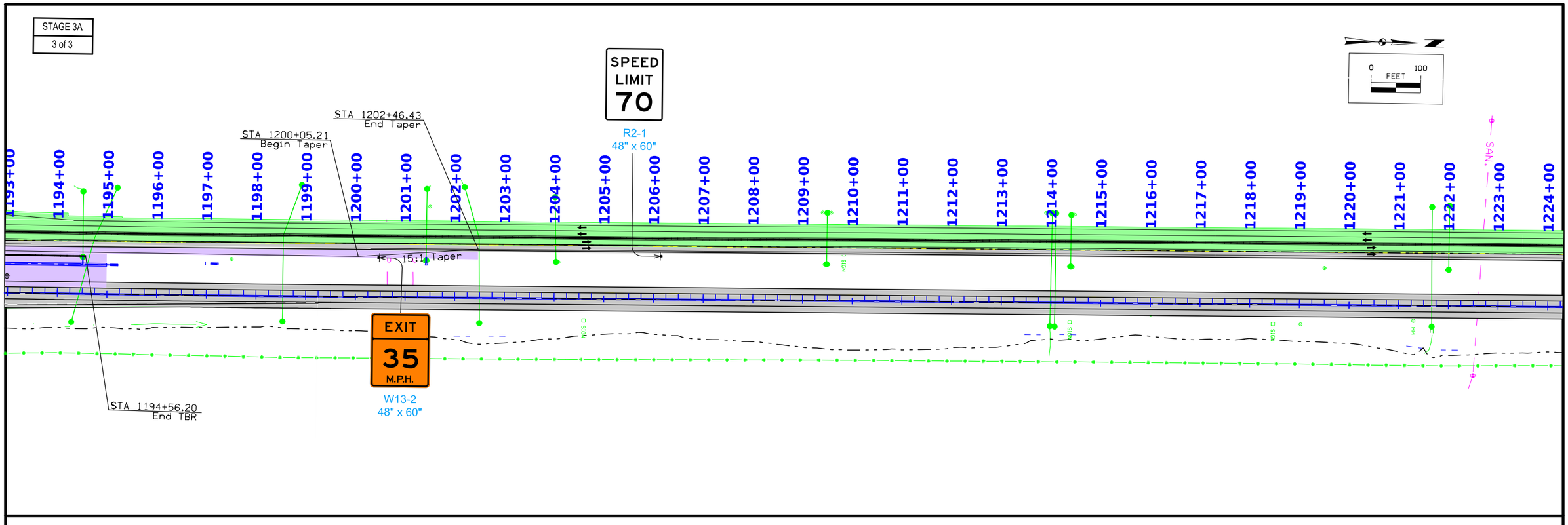
W4-1
48" x 48"

0 100 FEET

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.18

9:51:07 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J18toJ19.dgn

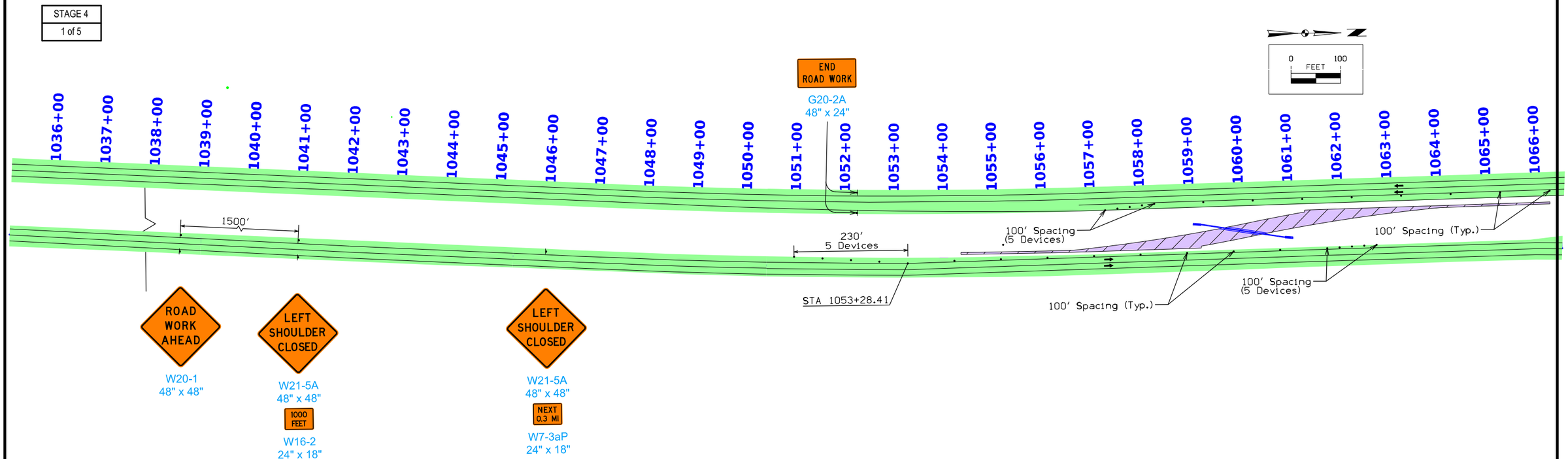
STAGE 3A
3 of 3



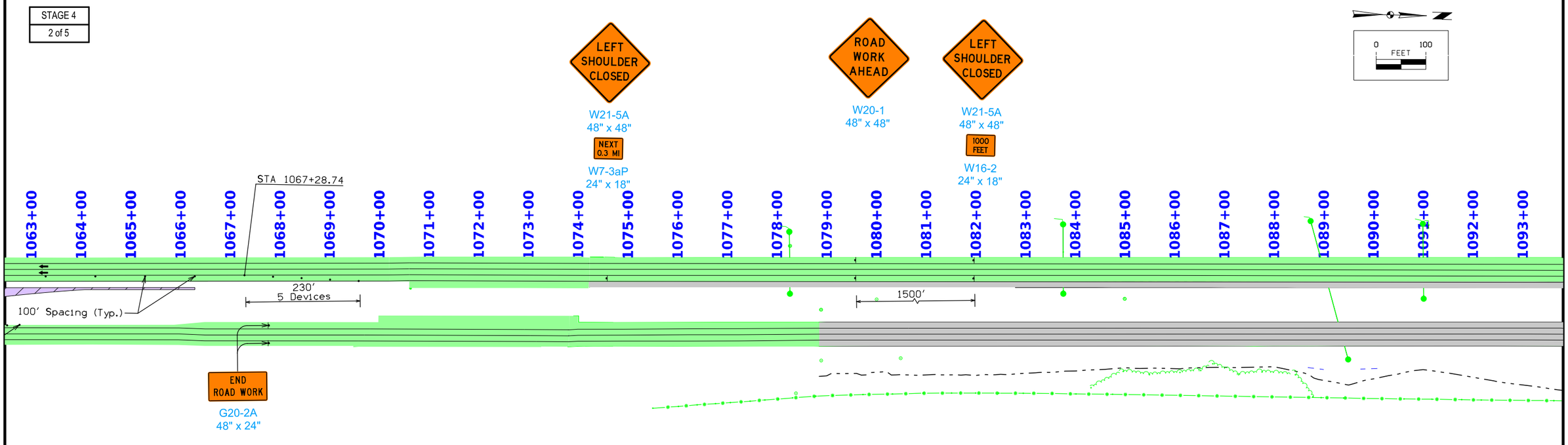
FILE NO. -	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**WARREN** COUNTY	PROJECT NUMBER **IM-NHS-035-2(467)63--03-91**	SHEET NUMBER **J.19**

9:51:08 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J18toJ19.dgn

STAGE 4
1 of 5



STAGE 4
2 of 5



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

9:51:13 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J20toJ22.dgn

STAGE 4
3 of 5

0 100
FEET

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 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

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

100' Spacing
(5 Devices)

100' Spacing (Typ.)

STA 1142+96.10
Begin TBR
Install Temp. Crash Cushion

1500'

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"

230'
5 Devices

STA 1143+69.77
Begin BLW6
Begin ELW6
Begin ELY6

STA 1143+16.57

STA 1148+66.38
End ELW6
Begin DLW6
Begin RLW6

STA 1150+51.00
End DLW6
Begin CHW10

STA 1154+43.00
End CHW10
End RLW6
Begin ELW6

STAGE 4
4 of 5

0 100
FEET

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 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00

STA 1195+71.10
End TBR

100' Spacing (Typ.)

STA 1186+83.79
End ELW6
Begin CHW10
Begin RLW6

STA 1190+26.04
End BLW6
End ELY6
End CHW10

STA 1196+88.62
End BLW6
End ELW6
End ELY6

STA 1196+88.62
End RLW6
Begin BLW6
Begin ELW6
Begin ELY6

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

9:51:14 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J20toJ22.dgn

STAGE 4
5 of 5

1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00 1283+00 1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00 1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00 1299+00 1300+00 1301+00 1302+00 1303+00

STA 1283+08.90

65' Spacing

1000' 1000' 1000'

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

W4-2
48" x 48"

MERGE
W4-2M
48" x 48"

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

SPEED LIMIT 70
R2-1
48" x 60"

ROAD WORK AHEAD
W20-1
48" x 48"

0 FEET 100

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.22	

9:51:15 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J20toJ22.dgn

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

1053+00 1054+00 1055+00 1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00

1052+97.84 11.58'
BEGIN ELY6

Interstate 35

1059+25.00 11.58'
END ELY6

1052+97.84 0.00'
BEGIN BLC6

1059+25.00 0.00'
END BLC6

1052+97.84 11.72'
BEGIN ELW6

1059+25.00 11.72'
END ELW6

0 40
FEET

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

GeomBL_ML035 - Plan 18

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

STA 1078+85.00, 11.58' LT
BEGIN ELY6

Interstate 35

STA 1078+85.00, 11.58' RT
BEGIN ELW6

1078+85.00 0.00'
BEGIN BLC6

0 40
FEET

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.23

11:55:57 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

ELY6

1086+00 1087+00 1088+00 1089+00 1090+00 1091+00 1092+00 1093+00 1094+00 1095+00 1096+00 1097+00

ELY6

Interstate 35

ELW6

BLC6

0 40
FEET

Permanent Markings

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

Plan 2

ELY6

1097+00 1098+00 1099+00 1100+00 1101+00 1102+00 1103+00 1104+00 1105+00 1106+00 1107+00 1108+00

Interstate 35

ELY6

BLC6

ELW6

0 40
FEET

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.24

11:55:58 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

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

ELY6

ELY6

Interstate 35

ELW6

BLC6

0 FEET 40

Permanent Markings

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

Plan 4

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

ELY6

ELY6

Interstate 35

ELW6

BLC6

0 FEET 40

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.25

11:55:58 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

1131+00 1132+00 1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00

ELY6

ELY6

Interstate 35

ELW6

BLC6

0 FEET 40

Permanent Markings

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

Plan 6

1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00

ELY6

ELY6

Interstate 35

BLC6

ELW6

STA 1147+93.98, 11.58' RT
END ELW6, BEGIN DLW6

STA 2547+94.35, 0.42' RT
BEGIN RLW6

STA 1150+34.52, 11.58' RT
END DLW6, BEGIN CHW10

STA 2550+34.38, 15.58' LT
BEGIN CHW10

2547+00 2548+00 2549+00 2550+00 2551+00 2552+00 2553+00

0 FEET 40

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.26

11:55:59 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

ELY6

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

1153+93.95 11.58' RT
END CHW10; BEGIN ELW6

ELY6 BLC6

Interstate 35

2553+94.61 15.60' LT
END CHW10; BEGIN RLY6

STA 2554+94.99, 15.58' LT
END RLY6

STA 2554+94.99, 0.42' RT
END RLW6

2553+00 2554+00 555+00 56+00 00

0 40
FEET

Permanent Markings

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

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

Plan 8

ELY6

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

ELY6 BLC6

Interstate 35

ELW6

0 40
FEET

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.27

11:56:00 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

ELY6

1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00 1186+00 1187+00

ELY6

Interstate 35

BLC6

ELW6

0 40
FEET

Permanent Markings

+00 4587+00

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

Plan 10

ELY6

1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00

STA 1186+94.99, 11.58' RT
END ELW6; BEGIN CHW10

1191+60.41 11.58' RT
END CHW10

Interstate 35

ELY6

BLC6

4591+60.78 15.70' LT
END CHW10

4586+96.34 15.58' LT
BEGIN CHW10

4586+96.34 0.42' RT
BEGIN RLW6

4587+00 4588+00 4589+00 4590+00 4591+00 4592+00 4593+00 4594+00 4595+00 4596+00 4597+00 4598+00

0 40
FEET

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.28

11:56:01 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

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

ELY6

Interstate 35

ELY6

1199+24.99 11.58' RT
End RLW6; Begin ELW6

ELW6

BLC6

4598+00 4599+00 4600+00

0 40
FEET

Permanent Markings

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

Plan 12

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

ELY6

Interstate 35

ELY6

ELW6

BLC6

0 40
FEET

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.29

11:56:02 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

1220+00 1221+00 1222+00 1223+00 1224+00 1225+00 1226+00 1227+00 1228+00 1229+00 1230+00 1231+00 1232+00

ELY6

Interstate 35

ELY6

ELW6

BLC6

0 40
FEET

Permanent Markings

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

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

W2 FO3

1232+00 1233+00 1234+00 1235+00 1236+00 1237+00 1238+00 1239+00 1240+00 1241+00 1242+00 1243+00

ELY6

Interstate 35

ELW6

BLC6

E3 E1 W2 FO3

0 40
FEET

Plan 14

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.30

11:56:03 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

ELY6

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

ELY6

Interstate 35

ELW6

BLC6

0 40
FEET

Permanent Markings

Plan 16

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

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

1265+00.00 106.40' LT
END ELY6

1260+50.01 11.59' LT
BEGIN ELY6 35:1 TAPER

Interstate 35

1265+00.01 23.58' LT
END ELY6

1265+00.00 0.00'
END BLC6

STA 1265+00.00, 11.58' RT
END ELW6

0 40
FEET

Permanent Markings

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER J.31

11:56:03 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_J23.dgn

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

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

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

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

EQUATION:
STA 1153+92.49(I-35)
= STA 2553+94.61(Ramp B)
Point M on SRP PV-410

EQUATION:
STA 1186+97.94(I-35)
= STA 4586+96.34(Ramp C)
Point F on SRP PV-411

1145+00
1150+00
1155+00
1160+00
1165+00
1170+00
1175+00
1180+00
1185+00
1190+00
1195+00
1200+00
1205+00

PI 2558+51.77
PI 4584+78.31
PC 1193+55.58
PI 1196+52.47
PT 1199+49.35

Interstate 35

3°48'49"
0°47'6"

Ramp B
Ramp C

EQUATION:
STA 1146+13.92(I-35)
= STA 2546+13.92(Ramp B)

POB 2546+13.92
PC 2554+64.69
PT 2561+91.41
PC 2566+89.50
PT 2570+81.08
POB 4569+83.73
POE 2574+81.08
PI 2568+91.54
PC 4580+15.62
PT 4589+25.00
POE 4600+50.11

2550+00
2555+00
2560+00
2565+00
2570+00
4575+00
4580+00
4585+00
4590+00
4595+00
4600+00

Curve 1
Ramp B

Curve 2
Ramp B

Curve 1
Ramp C

Curve 1 Ramp B
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'

Curve 2 Ramp B
Δ = 34°47'02.53" (LT)
T = 202.03'
L = 391.58'
R = 645.00'
E = 30.90'
e = ___
L = ___
x = ___

Curve 1 Ramp C
Δ = 26°03'06.38" (RT)
T = 462.69'
L = 909.38'
R = 2000.00'
E = 52.82'
e = 5.4%
L = 151'
x = 56'

EQUATION:
STA 1200+49.82(I-35)
= STA 2602+12.15(Ramp C)

0 200
FEET

Geometric Plan
Interchange of I-35 and County Road G14 (Northbound)

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

9:51:38 AM 7/8/2026 mkjartanson 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. 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' CRP
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

+0.36%

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. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER K.2

9:51:46 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_K02.dgn

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

Interstate 35

Ramp D

Point F on SRP PV-411
Sta 4586+96.34

PT 4589+25.00

PCE 4600+50.11

GHP

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

4586+00 4587+00 4588+00 4589+00 4590+00 4591+00 4592+00 4593+00 4594+00 4595+00 4596+00 4597+00 4598+00 4599+00 4600+00

Δ = 26°03'06.38" (RT)
T = 462.69'
L = 909.38'
R = 2000.00'
E = 52.82'
e = 5.4%
L = 151'
x = 56'

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

985 980 975 970 965 960 955 950 945 940

Existing Ground Line

4586+00 4587+00 4588+00 4589+00 4590+00 4591+00 4592+00 4593+00 4594+00 4595+00 4596+00 4597+00 4598+00 4599+00 4600+00

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

9:51:53 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_K03.dgn

1146+00 1147+00 1148+00 1149+00 1150+00 1151+00

Interstate 35

12.0' 2.0% Constant 2.0% Slope 12.0' 2.0%

12.0' 2.0% Constant 2.0% Slope 12.0' 2.0%

12.0' 2.5% Constant 2.5% Slope 12.0' 2.5%

12.0' 3.0% Constant 3.0% Slope 12.0' 3.0% 6.0' 3.0%

6.0' 3.0% Constant 3.0% Slope 16.97' 3.0% 2.63' 3.0% 4.0' 3.0% Ramp B

6.0' 4.0% Constant 4.0% Slope 6.0' 4.0%

STA: 2547+94.35

STA: 2548+84.76

STA: 2550+44.90

STA: 2550+73.89

STA: 2550+93.95

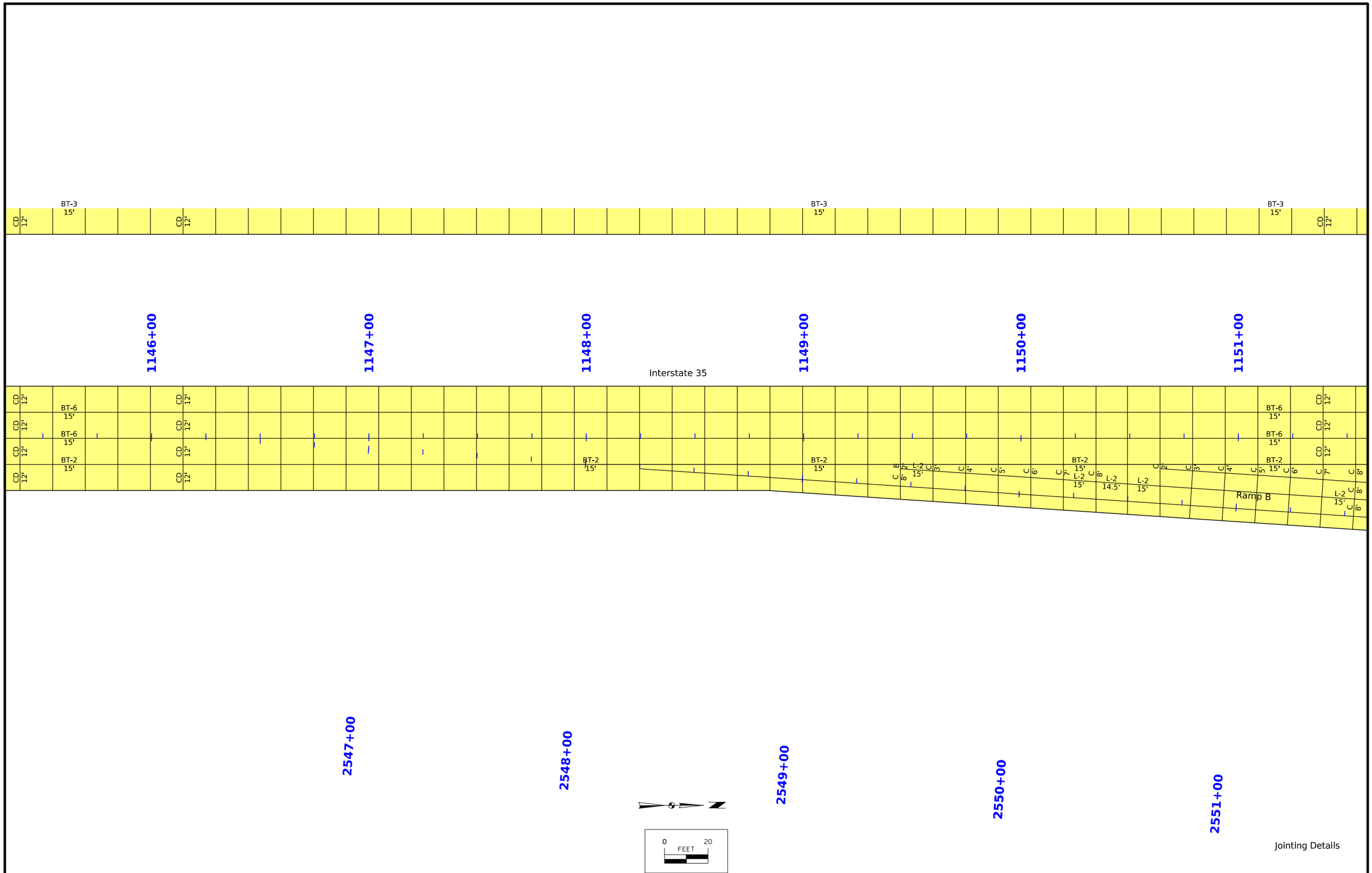
2547+00 2548+00 2549+00 2550+00 2551+00

0 20 FEET

Geometric and Staking Details

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

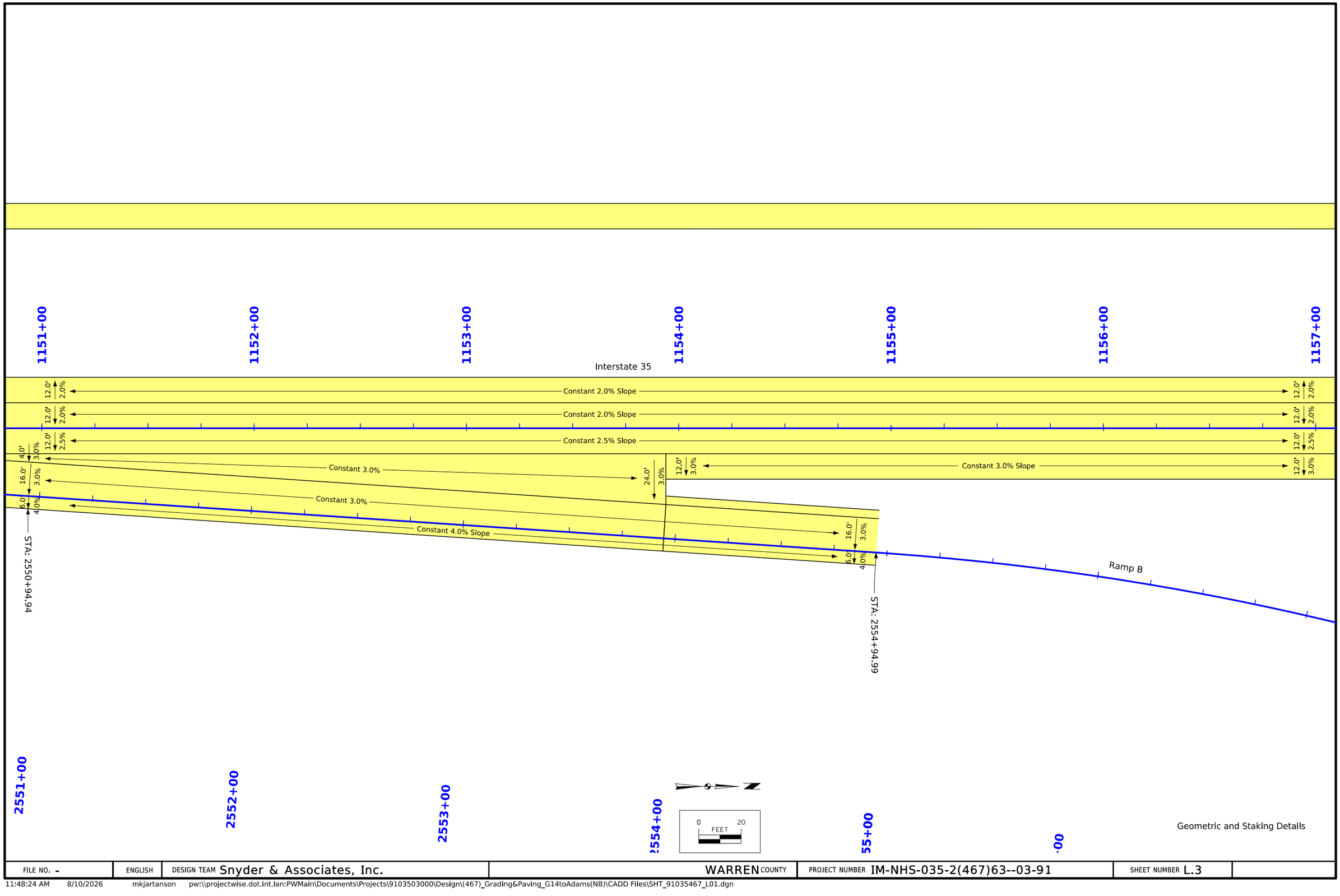
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Jointing Details

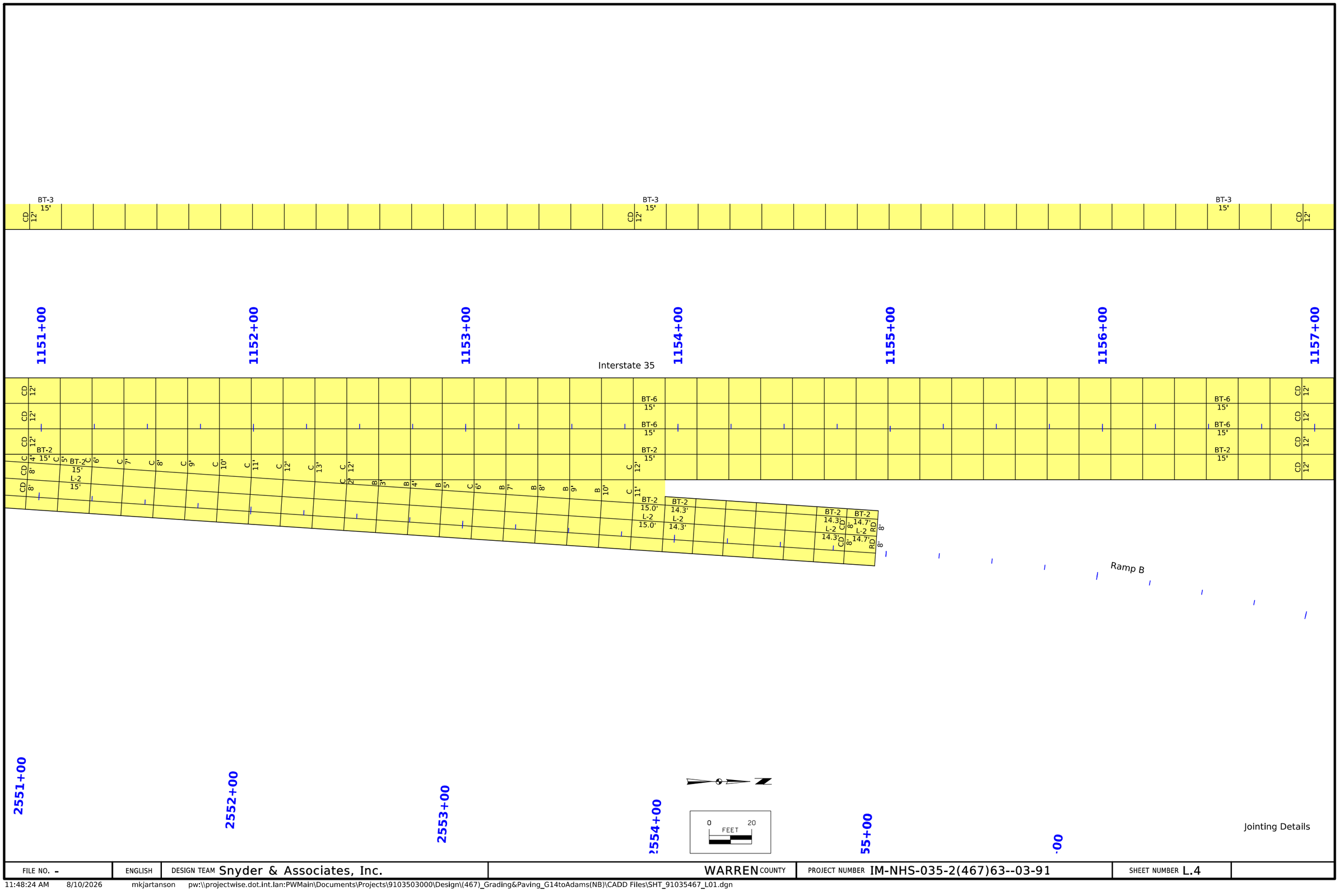
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11:48:23 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn



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

11:48:24 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn



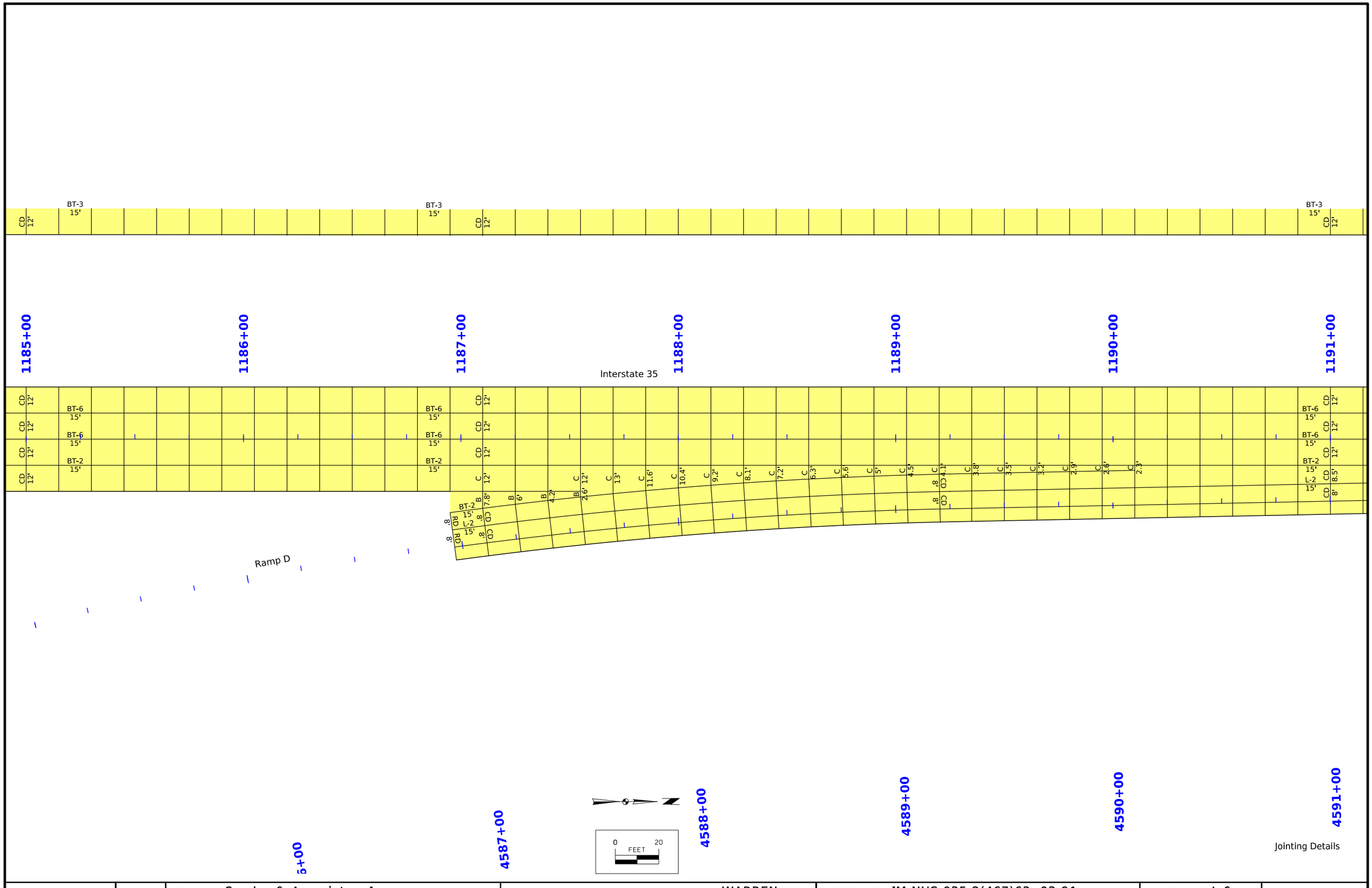
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11:48:24 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn

1185+00
1186+00
1187+00
1188+00
1189+00
1190+00
1191+00
Interstate 35
12.0' 2.0% Constant 2.0% Slope 12.0' 2.0%
12.0' 2.0% Constant 2.0% Slope 12.0' 2.0%
12.0' 2.5% Constant 2.5% Slope 12.0' 2.5%
12.0' 3.0% Constant 3.0% Slope 12.0' 3.0%
21.76'
2.4%
Uniform Transition
Constant 5.4% Slope
16.0'
5.4%
4.0'
3.8%
Uniform Transition
Constant 4.0% Slope
17.5'
3.0%
Constant 3.0% Slope
18.0'
3.0%
Constant 3.0% Slope
Ramp D
STA: 4586+96.27
STA: 4588+75.00
STA: 4589+25.32
STA: 4589+50.00
STA: 4590+25.07
4587+00
4588+00
4589+00
4590+00
4591+00
0 20
FEET
Geometric and Staking Details

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

11:48:25 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn



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

11:48:26 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn

1191+00 1192+00 1193+00 1194+00 1195+00 1196+00

Interstate 35

12.0' 2.0% Constant 2.0% Slope 12.0' 2.0%

12.0' 2.0% Constant 2.0% Slope 12.0' 2.0%

12.0' 2.5% Constant 2.5% Slope 12.0' 2.5%

Constant 3.0% Slope 16.0' 3.0% Ramp D Constant 3.0% Slope 16.0' 3.0%

Constant 4.0% Slope

STA: 4591+25.09

STA: 4596+25.15

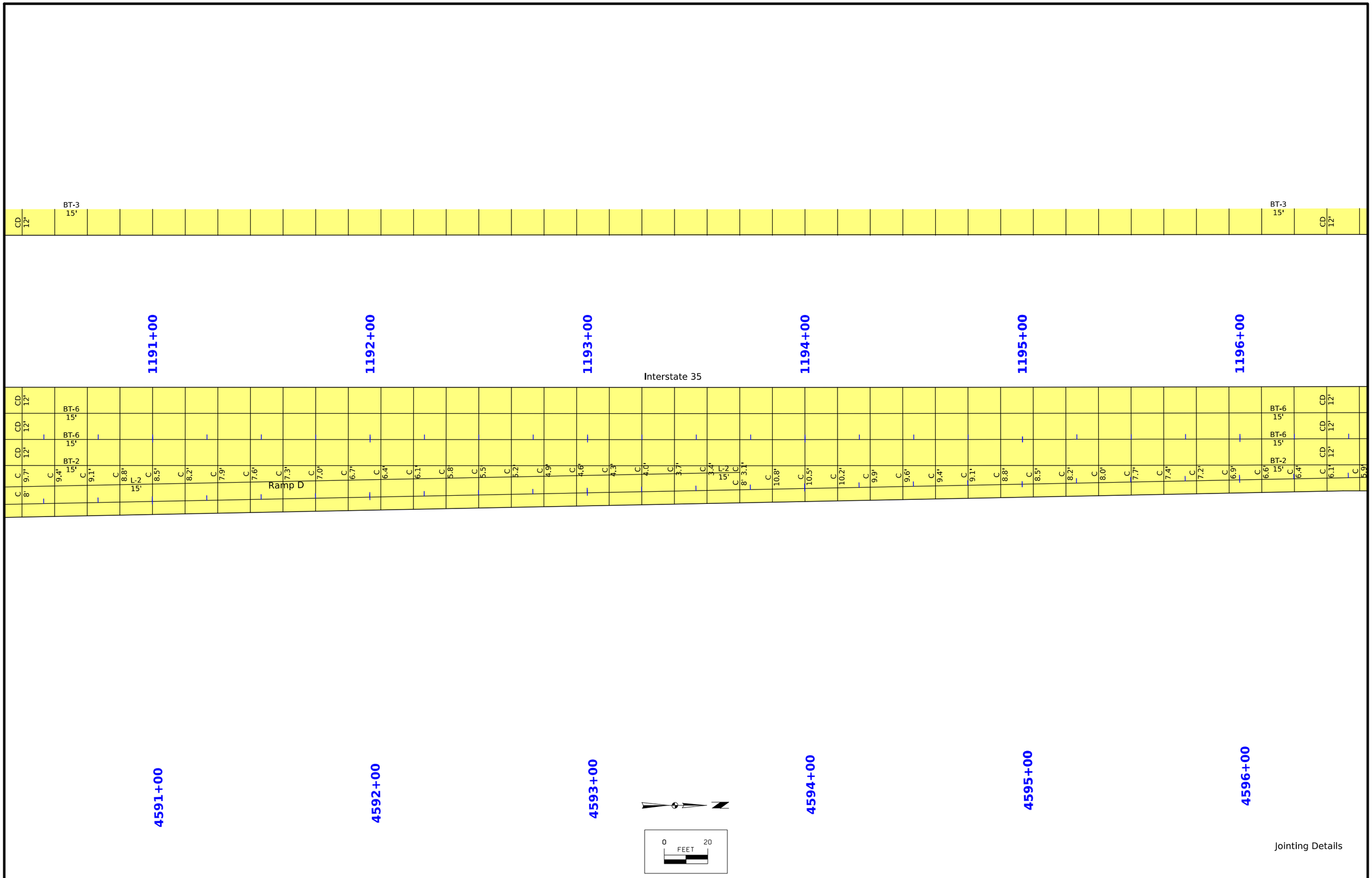
4591+00 4592+00 4593+00 4594+00 4595+00 4596+00

0 20 FEET

Geometric and Staking Details

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

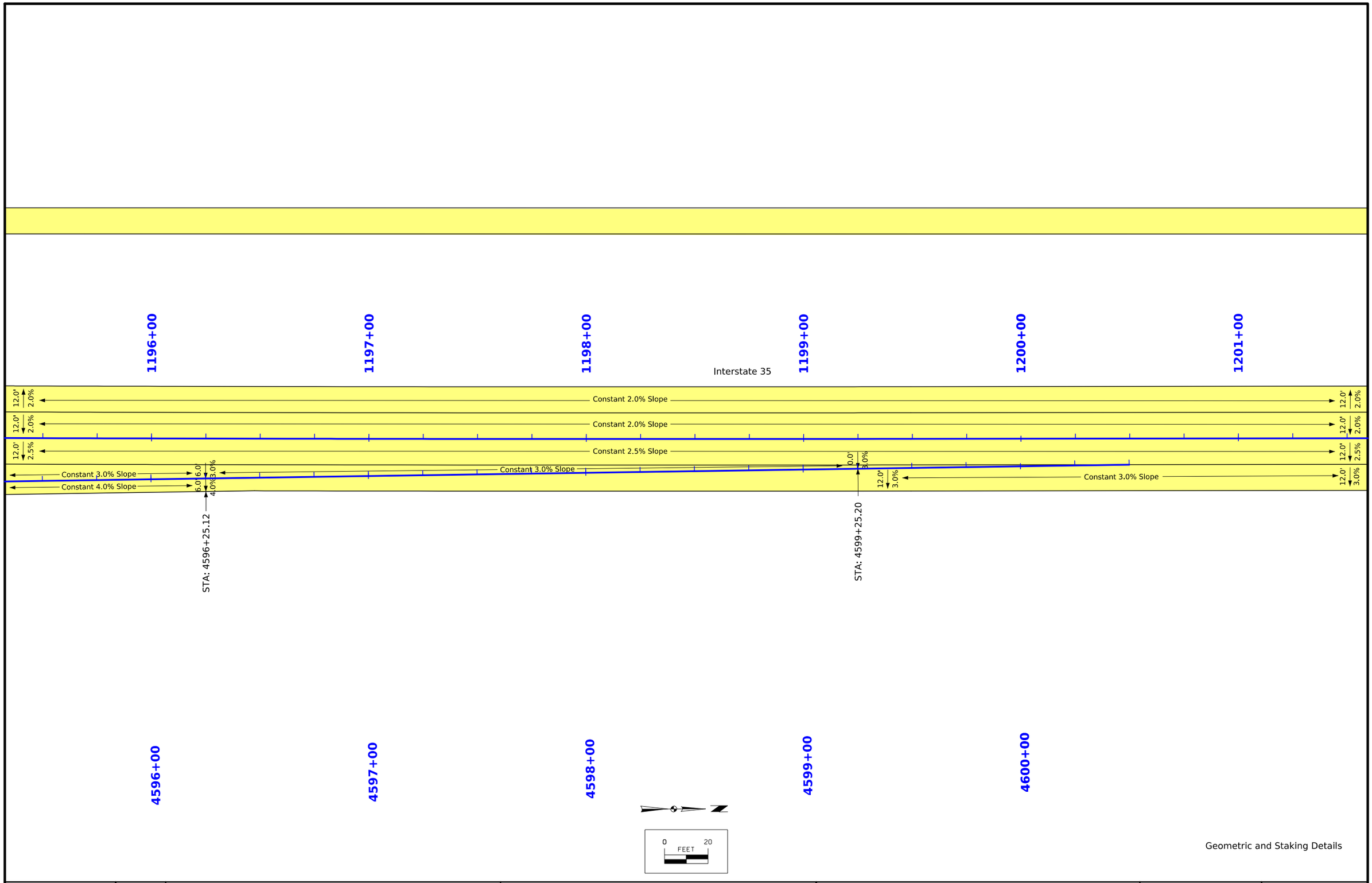
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Jointing Details

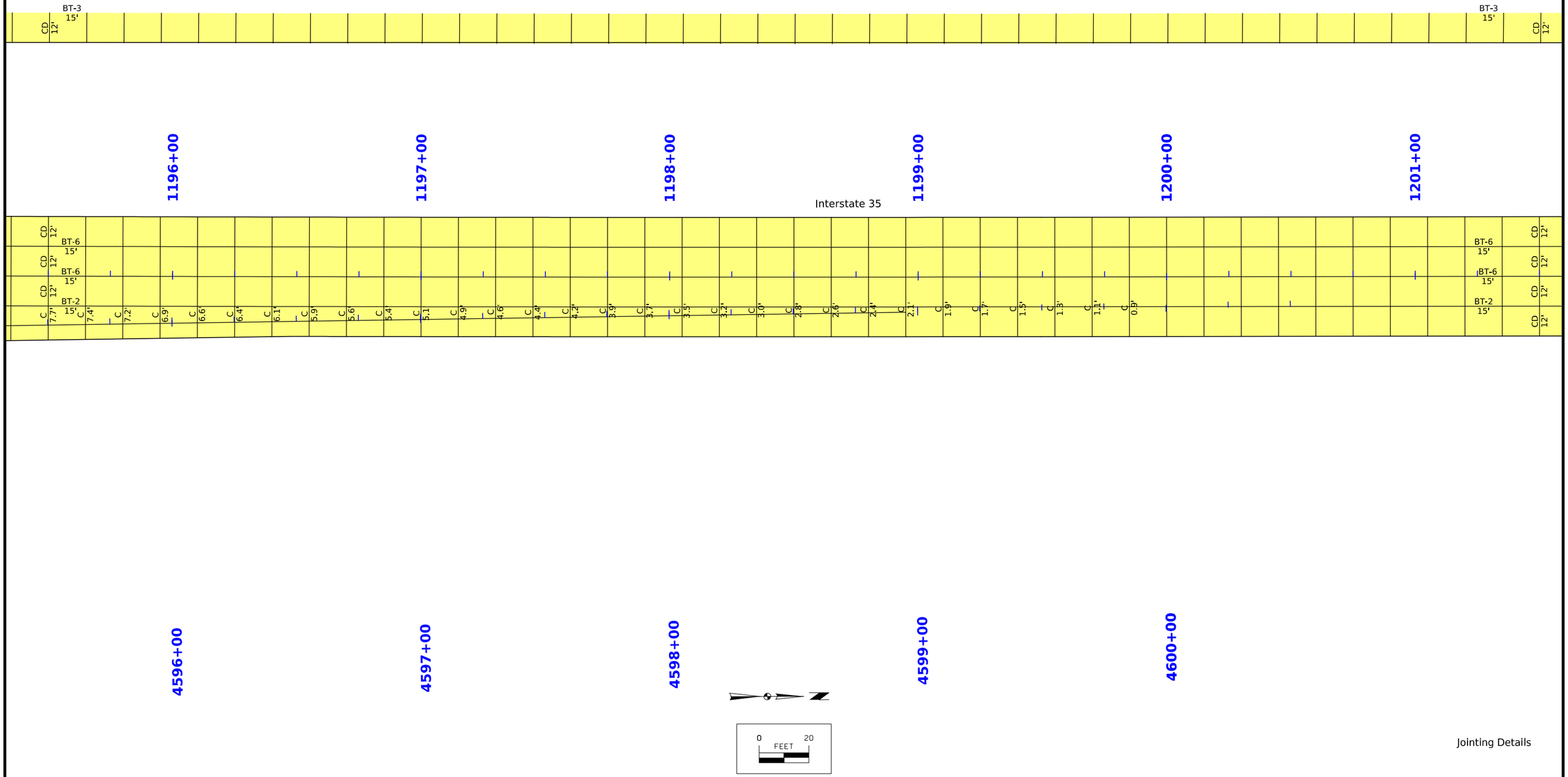
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER L.8	

11:48:27 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn



Geometric and Staking Details

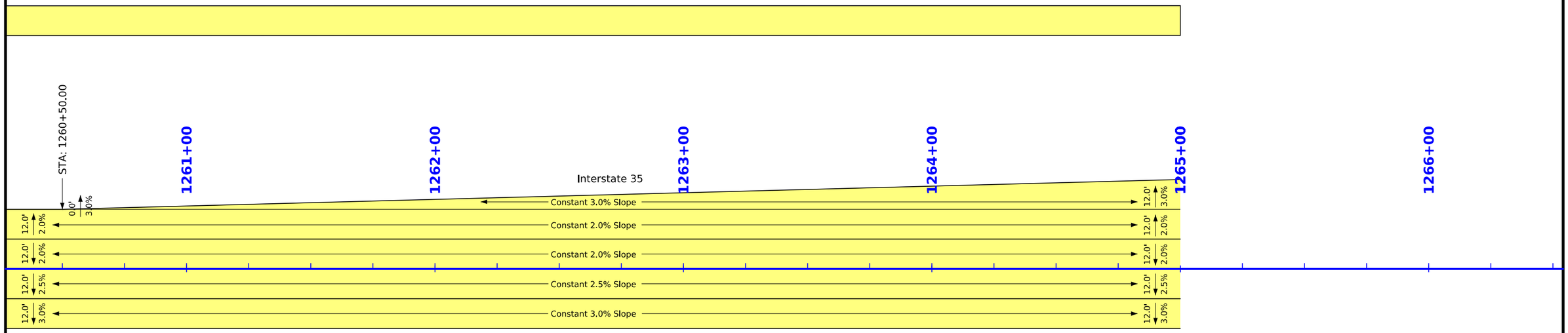
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER L.9



Jointing Details

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

11:48:28 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn

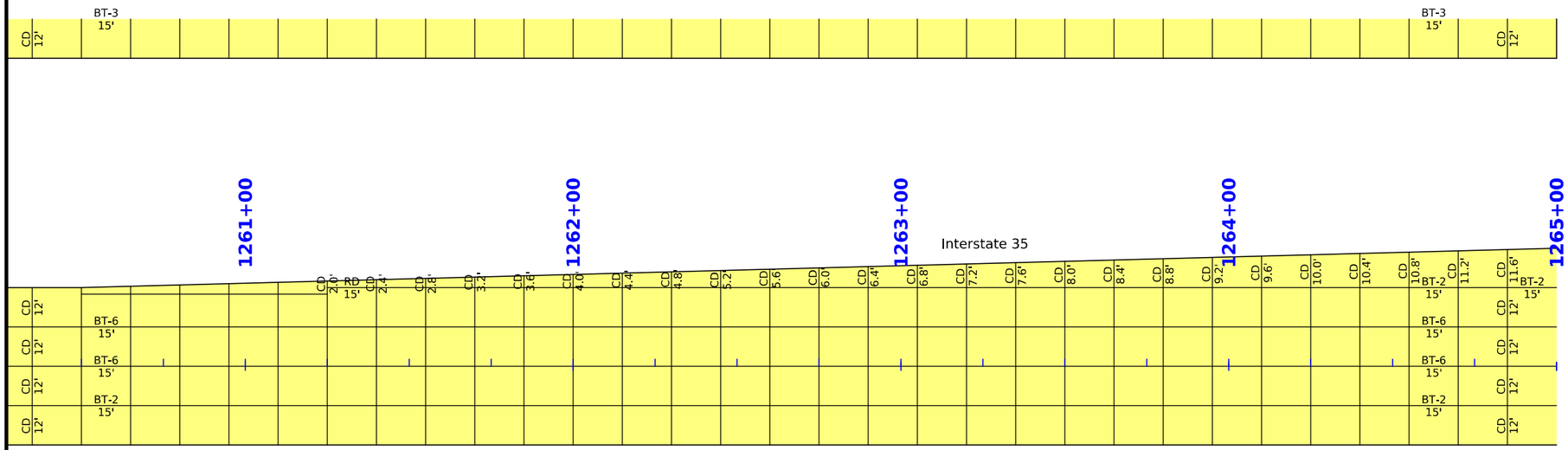


0 20
FEET

Geometric and Staking Details

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

11:48:29 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn



0 20
FEET

Jointing Details

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

11:48:29 AM 8/10/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_L01.dgn

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

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

- Drill
- Dig/Core
- Date(s) Drilled _____
- Water
- Treatment
- Sandstone
- Dry
- Sand Blanket
- Unsuitable A
- Sample
- Soil Remediation Area
- Unsuitable B
- Plugged
- Select Soil
- Unsuitable C
- Moisture
- Select Sand
- Sandy Soil
- Shelby
- Slope Dressing Only
- Boulders
- Blow Count
- Broken and Weathered Rock
- Shale
- Dens. Core
- Rock

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- 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

NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

SOILS LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES Q)

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

2:30:25 PM 2/24/2026 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Soils\(467)_Grading&Paving_G14toAdams(NB)\Qsheets\Q.1 Legend

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

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

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

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

Interstate 35

PA7701 PA7702 PA7704
SB7700 SB7703 RB7734 BA7735 BA7736 SB7705

BEGIN NBL CONSTRUCTION
STA. 1078+85.00

Existing ROW

INTERSTATE 35
NORTHBOUND LANES

0 100 FEET

Cut Moisture	27,20	21	19	27,23	17,14	--,--	--,21,19	--,20	26,23
Cut Density (lb/ft3)	94,109	--	--	97,105	--,--	--,--	--,105,106	--,86	97,96
Plastic Limit	21,--	17	13	20,--	--,--	--,--	--,14,18	18,--	--,15

SHELBY CORE TUBE DATA									
CORE NO.	SB7700-C2	SB7700-D2	SB7703-C2	SB7703-D2	BA7735-B1	BA7735-C1	BA7736-B1	SB7705-B3	SB7705-B5
DEPTH IN FEET	(6.0'-8.0')	(18.0'-20.0')	(8.0'-10.0')	(18.0'-20.0')	(8.0'-10.0')	(13.0'-15.0')	(3.0-5.0')	(6.0'-8.0')	(13.0'-15.0')
CLASSIFICATION (AASHTO)	A-7-6(15)	-	-	-	A-7-6(19)	-	-	-	
COEFF. CONSOL. FT2/DAY	-	-	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	-	-	UC	-	-	-	-	-	-
COHESION, C - PSF	-	-	1170	-	-	-	-	-	-
FRICTION ANGLE, f - Degrees	-	-	-	-	-	-	-	-	-
MOISTURE CONTENT %	27	20	27	23	21	19	20	26	23
DENSITY - PCF	94	109	97	105	105	106	86	97	96

UU - UNCONSOLIDATED & UNDRAINED
CU - CONSOLIDATED & UNDRAINED
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF

890 880 870 860 850 840 830 820 810 800

STA. 1078+85.00
ELEV. = 846.69
BEGIN CONSTRUCTION

Proposed Profile Grade

Existing Ground Line

Apparent Aggregate Base
Pavement
Topsoil
Clay, tr. Organic, Gray (FILL)
Clay, tr. Debris, Brown to Brownish Gray (FILL)
Clay, little Sand, Gray to Brown (LOESS)
A-7-6(21) SI CL LO
Clayey Sand, Brown (FILL)
Clay, little Sand, Dark Gray to Dark Brown (LOESS)
SB7700-C1 A-7-6(15) SI LO
Clay, little Sand, Brown and Gray to Gray (TILL)
SB7700-D1 SI CL LO
Clay, w/ Sand, tr. Gravel, Brownish Gray (TILL)
Sandy Clay, tr. Gravel, Brownish Gray (FILL)
Clay, tr. Organic, Dark Brown (FILL)
Clay, w/ Sand, tr. Organic, Dark Brown to Brown (LOESS)
SB7703-C1
Sandy Clay, Brown (TILL)
SB7703-D1 SI LO
Clay, Gray (TILL)
Shale
SI CL
Clay, w/ Sand, Brown to Brown and Gray (TILL)
Poorly Graded Sand w/ Silt, tr. Gravel, Brown (Outwash)
Clay, little Sand, Brown (TILL)
BA7735-B1? A-7-6(19) SI CL LO
Clay, w/ Sand, Brown (TILL)
BA7735-C1
Highly Plastic Clay, tr. Sand, Brown (TILL)
Clay, little Sand, Brown (TILL)
Poorly Graded Sand, Brown (OUTWASH)
Clay, w/ Sand, Brown (LOESS)
SB7705-B1
SB7705-B2 A-7-6(18) SI CL LO
Poorly Graded Sand, Brown (OUTWASH)
Shale
H_2O

Extents of Select Loam
Extents of Select Loam

SB7700 RT,67 | PA7701 RT.19 | PA7702 RT.26 | SB7703 RT,74 | PA7704 RT.42 | RB7734 RT.70 | BA7735 RT.90 | BA7736 RT.99 | SB7705 RT,49

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

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

2:30:40 PM 2/24/2026 DRivers pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Soils\(467)_Grading&Paving_G14toAdams(NB)\Qsheets\Q.2 Main Roads

T-77N R-25W
SEC. 19

T-77N R-25W
SEC. 18

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

Interstate 35

SB7705 RB7737 RB7738 SB7706 PA7707 RB7739 SB7708 SB7709 RB7740 PA7710 RB7741 SB7711

Existing ROW

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

INTERSTATE 35
NORTHBOUND LANES

0 100 FEET

	--,25,26 --,99,99 --,19,--	Cut Moisture Cut Density (lb/ft3) Plastic Limit	--,24,24 –,109,100 --,16,20	25 -- 16	21 -- 19	--,24 --,94 --,17	25,26 108,101 --,24	17,16,27 --,121,99 --,--,19	--,28,20 --,95,111 --,16,--	26,22 –,-- --,16	--,30,--,22 --,94,--,103 --,--,–,15	26,30 102,107 --,17

SHELBY CORE TUBE DATA

CORE NO.	RB7737-B1	RB7737-B2	RB7738-B1	RB7738-B2	RB7739-B1	SB7708-B3/C1	SB7708-C3	SB7709-B4	SB7709-C2	RB7740-B1	RB7740-C1	RB7741-B1	RB7741-C1	SB7711-B1	SB7711-B3
DEPTH IN FEET	(3.0'-5.0')	(8.0'-10.0')	(6.0'-8.0')	(13.0'-15.0')	(8.0'-10.0')	(6.0'-8.0')	(13.0'-15.0')	(8.0'-10.0')	(18.0'-20.0')	(3.0'-5.0')	(13.0'-15.0')	(3.0'-5.0')	(13.0'-15.0')	(6.0'-8.0')	(13.0'-15.0')
CLASSIFICATION (AASHTO)	-	-	A-7-6(37)	-	-	-	A-7-6(32)	-	-	A-7-6(27)	-	A-7-6(27)	-	-	A-7-6(20)
COEFF. CONSOL. FT2/DAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	-	-	-	-	-	-	-	-	UC	-	-	-	-	-	-
COHESION, C - PSF	-	-	-	-	-	-	-	-	480	-	-	-	-	-	-
FRICTION ANGLE, f - Degrees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOISTURE CONTENT %	25	26	24	24	24	25	26	16	27	28	20	30	22	26	30
DENSITY - PCF	99	99	109	100	94	108	101	121	99	95	111	94	103	102	107

UU - UNCONSOLIDATED & UNDRAINED
CU - CONSOLIDATED & UNDRAINED
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF

910 900 890 880 870 860 850 840 830 820 810

Proposed Profile Grade
Existing Ground Line

Topsoil
Sandy Clay, Brown (TILL)
RB7737-B1
RB7737-B2

Topsoil
Highly Plastic Clay, tr. Sand, Brown (TILL)
RB7738-B1 A-7-6(37) SI CL
RB7738-B2

Topsoil
Clay, w/ Sand, Brown (LOESS)
A-7-6(16) CL LO
Poorly Graded Sand with Silt, tr. Gravel, Brown (OUTWASH)

Roadside Gravel
Sandy Clay, tr. Debris, Brown (FILL)
Clay, w/ Sand, Brownish Gray (TILL)
Sandy Clay, tr. Gravel Dark Brown and Brownish Gray (TILL)

Topsoil
Clay, w/ Sand, Dark Gray to Brown and Gray (TILL)
RB7739-B1 A-7-6(18) SI CL LO
Highly Plastic Clay, Brown and Gray (TILL)
Highly Weathered Shale

Topsoil
Clay, tr. Organic, Dark Brown (TILL)
SB7708-B3/C1
SB7708-C3 A-7-6(32) SI CL LO
SB7709-C2

Topsoil
SB7709-B4
A-4(6) CL LO
Sandy Clay, Dark Brown to Brown (TILL)
Clay, Brown and Gray (TILL)
$-H_2O-$
Highly Weathered Shale

Pavement
Clay, w/ Debris, Brown (FILL)
Highly Plastic Clay, w/ Sand, Brown (TILL)
RB7740-B1 A-7-6(27) SI CL LO
Topsoil
Clay, tr. Sand, Brown (LOESS)
A-7-6(29) CL
RB7740-C1
Sandy Clay, tr. Gravel, Light Brown (TILL)

Topsoil
Clay, tr. Sand, Light Brown (LOESS)
RB7741-B1
Clay, little Sand, Brown (TILL)
RB7741-C1 A-7-6(26)

Topsoil
Clay, tr. Organic & little Sand, Dark Brown and Gray (LOESS)
SB7711-B1
SB7711-B3 A-7-6(20) SI LO
Sandy Clay, Brown (TILL)
$-H_2O-$

Extents of Unsuitable B

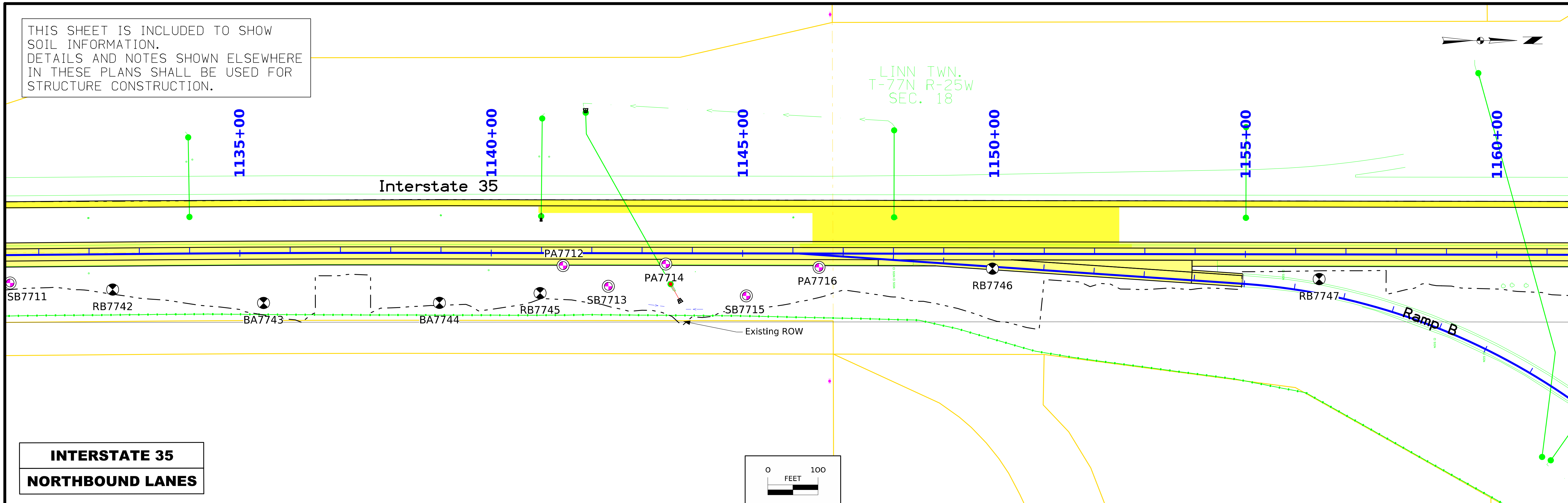
RB7737 RT.90 | RB7738 RT.90 | SB7706 RT.52 | PA7707 RT.27 | RB7739 RT.80 | SB7708 RT.71 | SB7709 RT.66 | RB7740 RT.60 | PA7710 RT.25 | RB7741 RT.60 | SB7711 RT.56

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

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

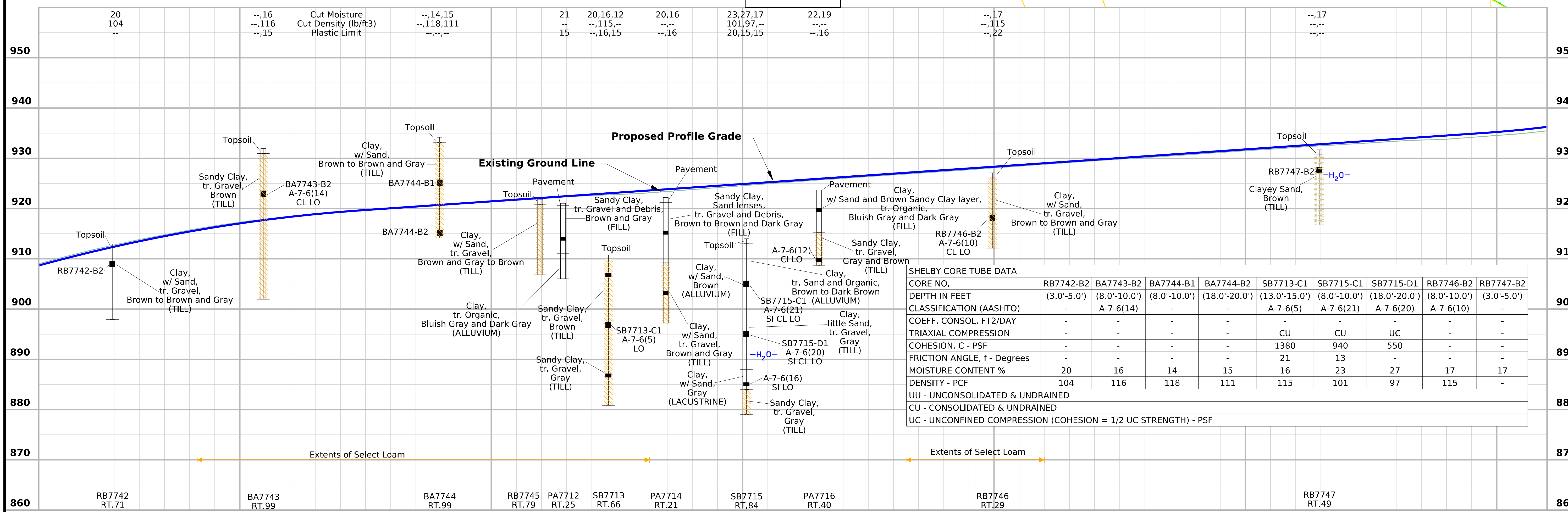
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THIS SHEET IS INCLUDED TO SHOW
SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE
IN THESE PLANS SHALL BE USED FOR
STRUCTURE CONSTRUCTION.



INTERSTATE 35

NORTHBOUND LANES



SHELBY CORE TUBE DATA

CORE NO.	RB7742-B2	BA7743-B2	BA7744-B1	BA7744-B2	SB7713-C1	SB7715-C1	SB7715-D1	RB7746-B2	RB7747-B2
DEPTH IN FEET	(3.0'-5.0')	(8.0'-10.0')	(8.0'-10.0')	(18.0'-20.0')	(13.0'-15.0')	(8.0'-10.0')	(18.0'-20.0')	(8.0'-10.0')	(3.0'-5.0')
CLASSIFICATION (AASHTO)	-	A-7-6(14)	-	-	A-7-6(5)	A-7-6(21)	A-7-6(20)	A-7-6(10)	-
COEFF. CONSOL. FT2/DAY	-	-	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	-	-	-	-	CU	CU	UC	-	-
COHESION, C - PSF	-	-	-	-	1380	940	550	-	-
FRICTION ANGLE, f - Degrees	-	-	-	-	21	13	-	-	-
MOISTURE CONTENT %	20	16	14	15	16	23	27	17	17
DENSITY - PCF	104	116	118	111	115	101	97	115	-

UU - UNCONSOLIDATED & UNDRAINED
CU - CONSOLIDATED & UNDRAINED
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF

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

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

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

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

Interstate 35

RB7749 RB7751 RB7752 RB7753

HWY G14

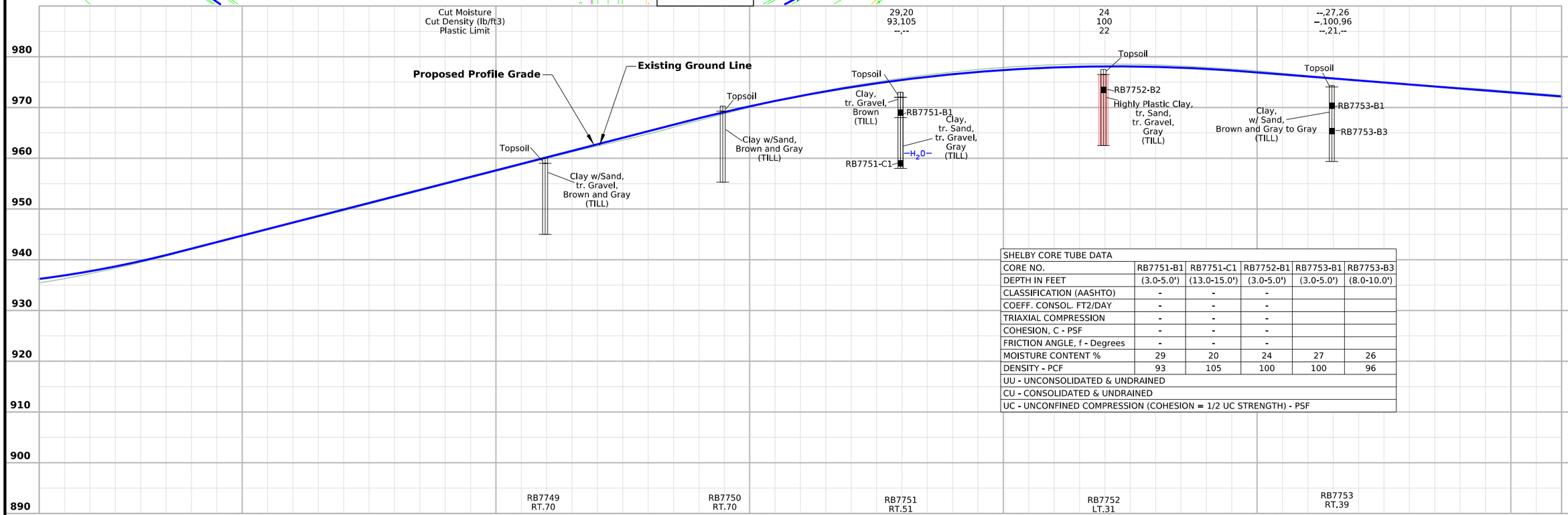
Ramp B

Ramp D

Existing ROW

0 100 FEET

INTERSTATE 35
NORTHBOUND LANES



SHELBY CORE TUBE DATA					
CORE NO.	RB7751-B1	RB7751-C1	RB7752-B1	RB7753-B1	RB7753-B3
DEPTH IN FEET	(3.0-5.0')	(13.0-15.0')	(3.0-5.0')	(3.0-5.0')	(8.0-10.0')
CLASSIFICATION (AASHTO)	-	-	-		
COEFF. CONSOL. FT2/DAY	-	-	-		
TRIAXIAL COMPRESSION	-	-	-		
COHESION, C - PSF	-	-	-		
FRICTION ANGLE, f - Degrees	-	-	-		
MOISTURE CONTENT %	29	20	24	27	26
DENSITY - PCF	93	105	100	100	96
UU - UNCONSOLIDATED & UNDRAINED					
CU - CONSOLIDATED & UNDRAINED					
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF					

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

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

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

Interstate 35

RB7754 PA7718 RB7755 SB7719 PA7720 Existing ROW RB7756 BA7757 SB7721 PA7723

INTERSTATE 35
NORTHBOUND LANES

0 100 FEET

SHELBY CORE TUBE DATA												
CORE NO.	RB7754-B1	RB7755-B1	RB7755-B2	SB7719-B3	SB7719-C1	RB7756-B1	RB7756-B2	BA7757-B1	BA7757-B2	BA7757-C1	SB7721-B3	SB7721-C2
DEPTH IN FEET	(3.0-5.0')	(6.0'-8.0')	(13.0-15.0')	(6.0'-8.0')	(18.0'-20.0')	(3.0-5.0')	(8.0-10.0')	(3.0-5.0')	(8.0-10.0')	(18.0'-20.0')	(6.0'-8.0')	(18.0'-20.0')
CLASSIFICATION (AASHTO)	-	-	-	A-7-6(27)	A-7-6(12)	-	-	-	-	-	A-7-6(34)	A-7-6(6)
COEFF. CONSOL. FT2/DAY	-	-	-	-	-	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	-	-	-	UC	-	-	-	-	-	-	UC	UC
COHESION, C - PSF	-	-	-	2150	-	-	-	-	-	-	890	1480
FRICTION ANGLE, f - Degrees	-	-	-	-	-	-	-	-	-	-	-	-
MOISTURE CONTENT %	25	25	24	24	17	23	25	26	28	23	29	17
DENSITY - PCF	100	100	100	101	107	100	100	95	92	100	105	113
UU - UNCONSOLIDATED & UNDRAINED												
CU - CONSOLIDATED & UNDRAINED												
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF												

Cut Moisture
Cut Density (lb/ft3)
Plastic Limit

--,25 --,100 --,22 | 26,25 25,24 39,24,17 --,-- 100,100 --,101,107 --,19 --,-- --,21,16 | --,23,25 --,100,100 --,21,-- | --,26,28,23 --,95,92,100 --,21,--,26 | 29,27,17 105,--,113 16,19,16 | 26,28 --,-- 27,18

Topsoil
Clay, w/ Sand, tr. Gravel, Dark Brown (TILL)
Proposed Profile Grade
Existing Ground Line
Pavement
Highly Plastic Clay, tr. to w/ Sand, tr. Organic, Gray (FILL)
Highly Plastic Clay, w/ Sand, tr. Organic, Gray (LOESS)
A-7-6(51) CL
Sandy Highly Plastic Clay, Brown and Gray (LOESS)
RB7755-B2
PA7718 Offset 50' left for clarity
Clay, w/ Sand, Brown and Gray to Gray (TILL)
RB7755-B1
Topsoil
Highly Plastic Clay, little to w/ Sand, Gray (LOESS)
CL
SB7719-B3 A-7-6(27) SI CL LO
Sandy Clay, Gray and Brown (TILL)
SB7719-C1 A-7-6(12) CL LO
Sandy Clay, tr. Gravel, Gray (TILL)
Extents of Unsuitable B
Pavement
Highly Plastic Clay, w/ Sand, tr. Organic, Gray (FILL)
Clay, w/ Sand, Dark Brown (TILL)
Topsoil
RB7756-B1
Clay, w/ Sand, Brown to Gray (TILL)
RB7756-B2
Extents of Unsuitable B
Topsoil
BA7757-B1
BA7757-B2
Clay, tr. Sand, Brown to Gray (TILL)
Highly Plastic Clay, w/ Sand, tr. Gravel, Gray and Brown (TILL)
BA7757-C1
Highly Plastic Clay, w/ Sand, Brown (TILL)
Topsoil
Clay, tr. Sand, Dark Brown to Brown (LOESS)
SB7721-B3 A-7-6(34) SI CL LO
A-7-6(30) SI CL LO
SB7721-C2 A-7-6(6) GR LO
Sandy Clay, little Gavel, Brown (TILL)
Pavement
Clay, tr. Organic and Debris, Bluish Gray and Brown (FILL)
Clay, tr. Gravel and Organic, Dark Gray (FILL)
A-7-6(40) SI CL
Highly Plastic Clay, little Sand, Bluish Gray (TILL)

RB7754 RT.29 | PA7718 RT.28 | RB7755 RT.70 | SB7719 RT.69 | PA7720 RT.22 | RB7756 RT.69 | BA7757 RT.81 | SB7721 RT.59 | PA7723 RT.27

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

FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates Inc./Braun Intertec	Warren COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER Q.6

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

Veterans Pkwy

Interstate 35

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

SB7724 RB7758 PA7725 PA7726 RB7759 SB7727 RB7761

Existing ROW

0 100 FEET

INTERSTATE 35
NORTHBOUND LANES

24,20 104,109 25,22	--,27 --,93 --,--	28 -- 21	Cut Moisture Cut Density (lb/ft3) Plastic Limit	25 -- 21	--,30,28 --,91,95 --,21,--	36,27 88,-- 19,20	--,32 --,93 --,25

SHELBY CORE TUBE DATA							
CORE NO.	SB7724-D1	SB7724-E1	RB7758-B1	RB7759-B1	RB7759-B2	SB7727-B4	RB7761-B1
DEPTH IN FEET	(8.0'-10.0')	(18.0'-20.0')	(6.0'-8.0')	(3.0'-5.0')	(8.0'-10.0')	(8.0'-10.0')	(6.0'-8.0')
CLASSIFICATION (AASHTO)	-	A-7-6(15)	-	-	-	-	-
COEFF. CONSOL. FT2/DAY	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	UC	UC	-	-	-	UC	-
COHESION, C - PSF	2150	3040	-	-	-	850	-
FRICTION ANGLE, f - Degrees	-	-	-	-	-	-	-
MOISTURE CONTENT %	24	20	27	30	28	36	32
DENSITY - PCF	104	109	93	91	95	88	93

UU - UNCONSOLIDATED & UNDRAINED
CU - CONSOLIDATED & UNDRAINED
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF

1020 1010 1000 990 980 970 960 950 940 930

Proposed Profile Grade
Existing Ground Line

Clay, tr. Organic and Sand, Dark Gray, Bluish Gray and Brown (FILL)
Clay, tr. Organic, Dark Brown and Gray (ALLUVIUM)
Pavement
Clay, Brown and Gray (FILL)
Highly Plastic Clay, tr. Sand and Organic, Gray and Brown (ALLUVIUM)
Highly Plastic Clay, tr. Sand, Dark Gray (ALLUVIUM)
A-7-6(37) SI CL LO
Topsoil
Topsoil
SB7724-D1
SB7724-E1 A-7-6(16) CL LO
SB7724 RT.69
RB7758-B1
RB7758 RT.81
RB7758 Brown and Gray to Gray
Clay, w/ Sand, (TILL)
Highly Plastic Clay, tr. to w/ Sand, Gray and Brown (TILL)
Clay, w/ Sand, Brown and Gray (TILL)
Sandy Clay, tr. Gravel and Organic, Brown (TILL)
$-H_2O-$
Extents of Unsuitable B
PA7725 RT.26
Pavement
Clay, Gray and Brown (FILL)
Highly Plastic Clay, Bluish Gray and Dark Gray (ALLUVIUM)
PA7726 RT.27
Extents of Unsuitable B
Clay, tr. Sand, Brown to Gray (TILL)
Topsoil
RB7759-B1
RB7759-B2
RB7759 RT.39
Topsoil
SB7727-B4
$-H_2O-$
Clay, Dark Brown to Light Brown (LOESS)
A-7-6(19) CL
Clay, w/ Sand, tr. Gravel, Brown (TILL)
SB7727 RT.62
Topsoil
RB7761-B1
Clay, tr. Sand, Brown to Gray (TILL)
RB7761 RT.51
Extents of Unsuitable B

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

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

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LINN TWN.
ZN R-25W
EC. 06

Adams Street

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

Interstate 35

PA7728 PA7729 PA7732 PA7733
RB7762 RB7763 SB7730 SB7731 RB7764 RB7765
Sign Truss
END CONSTRUCTION
STA. 1265+00.00
Existing ROW

0 100 FEET

Refer to J sheets for Crossover Information

INTERSTATE 35
NORTHBOUND LANES

Cut Moisture	--,22,28	23	--,35,26,22	27,17,15	14	32,--			30,28	--,25,21				
Cut Density (lb/ft3)	--,96-94	--	--,86,91,105	97,114,--	121	--,--			--,--	--,105,107				
Plastic Limit	--,21,--	--	19,--,17,--	23,12,14	--	17,--			--,--	--,14,--				
						--,28,26,25								
						--,96,97,98								
						18,--,--,--								

SHELBY CORE TUBE DATA													
CORE NO.	RB7762-B1	RB7762-C1	RB7763-B1	RB7763-B2	RB7763-C1	SB7730-C1	SB7730-D2	SB7731-E1	RB7764-B1	RB7764-C1	RB7764-C2	RB7765-C1	RB7765-D1
DEPTH IN FEET	(3.0-5.0')	(13.0-15.0')	(3.0-5.0')	(8.0'-10.0')	(13.0-15.0')	(8.0'-10.0')	(18.0'-20.0')	(23.0'-25.0')	(3.0-5.0')	(8.0'-10.0')	(13.0-15.0')	(6.0-8.0')	(13.0-15.0')
CLASSIFICATION (AASHTO)	A-7-6(31)	-	-	-	-	A-7-6(46)	A-7-6(10)	-	-	-	-	-	-
COEFF. CONSOL. FT2/DAY	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	-	-	-	-	-	UC	UC	UC	-	-	-	-	-
COHESION, C - PSF	-	-	-	-	-	1750	1560	2410	-	-	-	-	-
FRICTION ANGLE, f - Degrees	-	-	-	-	-	-	-	-	-	-	-	-	-
MOISTURE CONTENT %	22	28	35	26	22	28	17	14	28	26	25	25	21
DENSITY - PCF	96	94	86	91	105	96	113	121	96	97	98	105	107
UU - UNCONSOLIDATED & UNDRAINED													
CU - CONSOLIDATED & UNDRAINED													
UC - UNCONFINED COMPRESSION (COHESION = 1/2 UC STRENGTH) - PSF													

1020 1010 1000 990 980 970 960 950 940 930

Proposed Profile Grade

Topsoil
Clay, tr. Sand, Dark Gray (LOESS)
RB7762-B1
A-7-6(31)
SI CL LO
RB7762-C1
Clay, tr. Sand, Gray (TILL)
Roadside Gravel
Concrete
Sandy Clay, Dark Brown (FILL)
Sandy Clay, Dark Brown (TILL)
Sandy Clay, tr. Organic, Dark Brown (FILL)
Topsoil
RB7763-B1
RB7763-B2
RB7763-C1
Highly Plastic Clay, little Sand, Dark Gray to Light Brown (LOESS)
Clay, little Sand, Light Brown (TILL)
Clay, tr. Sand, Gray and Brown (LOESS)
Topsoil
SB7730-C1
A-7-6(46)
CL
Highly Plastic Clay, little Sand, Brown (TILL)
SB7730-D2
A-7-6(10)
LO
Sandy Clay, tr. Gravel, Brown (TILL)
A-7-6(11)
CL LO
SB7731-E1
Clay, tr. Sand and Organic, Brown and Gray (LOESS)
Topsoil
RB7764-B1
Clay, little Sand, tr. Gravel, Brown (TILL)
RB7764-C2
Clay, tr. w/ Sand, Brown and Gray (TILL)
Sandy Clay, tr. Gravel, Brown (TILL)
Pavement
Topsoil
Clay, little Sand, Light Brown (LOESS)
A-7-6(21)
SI CL LO
RB7764-C1
Clay, tr. Sand, Brown and Gray (LOESS)
Clay, tr. Sand, Brown and Gray (FILL)
Roadside Gravel
Clay, Brown and Gray (Fill)
Clay, Gray and Brown (LOESS)
Topsoil
RB7765-C1
RB7765-D1
Clay, tr. Sand, Brown (LOESS)
Clay, little Sand, Brown (TILL)
Sandy Clay, tr. Gravel, Light Brown and Gray (TILL)
STA. 1265+00.00
ELEV = 980.67
END CONSTRUCTION
Existing Ground Line

Extents of Unsuitable B
Extents of Unsuitable B

RB7762 RT.59 PA7728 RT.28 RB7763 RT.89 PA7729 RT.22 SB7730 RT.68 SB7731 RT.86 RB7764 RT.59 PA7732 RT.24 PA7733 RT.24 RB7765 RT.69

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

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

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POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.

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E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of NB I-35 from north of Badger Creek to south of Iowa 5. Includes grading, paving, culverts, and associated work.

B. This PPP covers approximately 81 acres with an estimated 81 acres being disturbed. The portion of the PPP covered by this contract has 81 acres disturbed.

C. The PPP is located in an area of Sharpsburg-Shelby-Adair soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.52.

D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.

F. Runoff from this work will flow into Badger Creek, Middle Creek, and unnamed roadway ditches and tributaries.

III. CONTROLS

A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices

1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.

2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:

a) Permanently ceased on any portion of the site, or

b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.

3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.

4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets.

5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.

6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

b. Structural Practices

1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.

2) Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be

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found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.

c. Storm Water Management
Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS
Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
g. Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
j. Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES
The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS
A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

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VI. NON-STORM WATER DISCHARGES
This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION
Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS
A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
C. Fieldbook Entries – This contains the inspector's daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Cindy Spencer
Signature

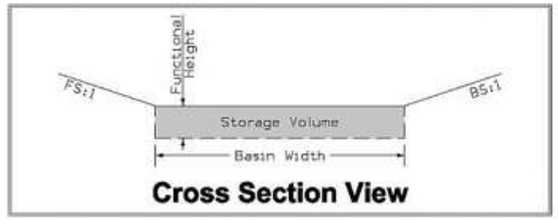
Cindy Spencer
Printed or Typed Name

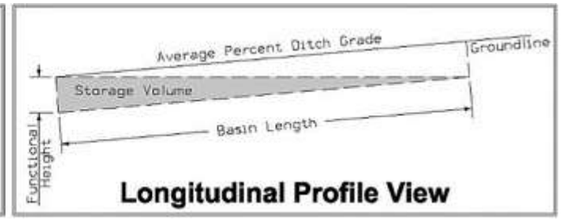
Signature

Printed or Typed Name

SILT BASINS

Possible Standard: EW-403





* The functional height used in the volume equation is 95% of effective height. Effective height is 3 feet as shown in EW-403.
* Volume equation: (0.5*Length*(Width*Height+Width*(Height-Length*Avg%Slope))

Basin No.	Station	Side	Installation (Each)	Removal (Each)	Basin Width (FT)	Basin Length (FT)	Height (FT)	Avg. % Slope	Volume (CF)	Remarks
2	1089+47.00	Right	1.0	1.0	10.0	50.0	2.85	2.5	1112.50	
2	1089+53.00	Right	1.0	1.0	10.0	50.0	2.85	5.2	775.00	
3	1100+46.00	Right	1.0	1.0	10.0	50.0	2.85	0.2	1400.00	
3	1100+56.00	Right	1.0	1.0	10.0	50.0	2.85	0.2	1400.00	
4	1108+77.00	Right	1.0	1.0	10.0	50.0	2.85	0.7	1337.50	
4	1108+87.00	Right	1.0	1.0	10.0	50.0	2.85	0.8	1325.00	
5	1115+08.00	Right	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	
5	1115+18.00	Right	1.0	1.0	10.0	50.0	2.85	1.9	1187.50	
6	1129+91.00	Right	1.0	1.0	10.0	50.0	2.85	3.5	987.50	
7	1143+72.00	Right	1.0	1.0	10.0	50.0	2.85	4.7	837.50	
7	1143+82.00	Right	1.0	1.0	10.0	50.0	2.85	5.4	750.00	
9	1202+44.00	Right	1.0	1.0	10.0	50.0	2.85	4.3	887.50	
9	1202+54.00	Right	1.0	1.0	10.0	50.0	2.85	1.1	1287.50	
15	1251+44.00	Right	1.0	1.0	10.0	50.0	2.85	0.8	1325.00	

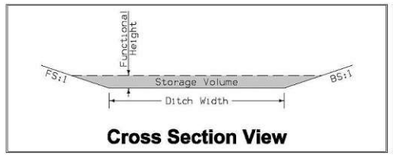
TABULATION OF SILT FENCES

Refer to EC-201

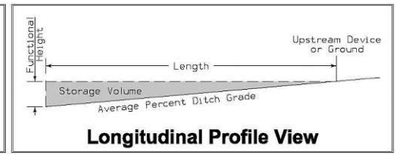
Station From	Station To	Side	Length (FT)	Remarks
1158+40.00	1162+50.00	Right	440.00	
1187+00.00	1200+50.00	Right	1490.00	
1256+05.00	1258+05.00	Right	220.00	
1078+50.00	1083+61.00	Median	571.00	
1083+81.00	1090+80.00	Median	779.00	
1091+25.00	1097+80.00	Median	735.00	
1098+05.00	1102+80.00	Median	535.00	
1103+05.00	1112+80.00	Median	1075.00	
1113+05.00	1119+80.00	Median	735.00	
1120+05.00	1126+80.00	Median	735.00	
1127+05.00	1133+80.00	Median	735.00	
1134+05.00	1140+80.00	Median	735.00	
1141+05.00	1147+80.00	Median	735.00	
1148+05.00	1154+80.00	Median	735.00	
1155+05.00	1162+60.00	Median	835.00	
1162+80.00	1168+30.00	Median	610.00	
1168+55.00	1173+80.00	Median	585.00	
1174+05.00	1177+80.00	Median	415.00	
1178+05.00	1190+20.00	Median	1335.00	
1190+45.00	1194+45.00	Median	440.00	
1194+70.00	1200+95.00	Median	685.00	
1201+20.00	1203+95.00	Median	315.00	
1204+05.00	1209+30.00	Median	585.00	
1209+55.00	1213+95.00	Median	503.00	
1214+45.00	1221+66.00	Median	801.00	
1222+05.00	1232+75.00	Median	1190.00	
1233+14.00	1239+80.00	Median	746.00	
1240+05.00	1253+80.00	Median	1515.00	
1254+05.00	1257+70.00	Median	405.00	
1257+95.00	1263+95.00	Median	660.00	
1264+20.00	1265+20.00	Median	120.00	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



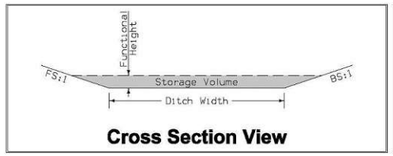
Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

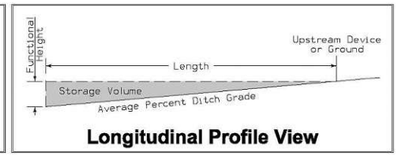
Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
1	Type 1	1078+85.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
1	Type 1	1079+85.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
1	Type 1	1080+85.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
1	Type 1	1081+85.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	
1	Type 1	1082+45.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	
1	Type 1	1083+05.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	
1	Type 1	1083+65.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	
1	Type 1	1084+25.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	
1	Type 1	1084+85.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	
1	Type 1	1085+45.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.9	1494.97	
1	Type 1	1087+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.9	1494.97	
2	Type 1	1088+40.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.5	578.70	
2	Type 1	1089+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.5	578.70	
2	Type 1	1091+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
2	Type 1	1092+55.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
2	Type 1	1094+10.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
2	Type 1	1095+65.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
3	Type 1	1099+96.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.2	3038.17	
3	Type 1	1101+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.2	3038.17	
4	Type 1	1106+72.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
4	Type 1	1108+27.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
4	Type 1	1109+37.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.8	1494.97	
5	Type 1	1114+58.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.5	3038.17	
5	Type 1	1115+68.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
5	Type 1	1116+43.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
5	Type 1	1117+18.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
5	Type 1	1117+93.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
5	Type 1	1123+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1124+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1124+56.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1125+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1125+56.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1126+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1126+56.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1127+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1127+56.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1128+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1128+56.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
5	Type 1	1129+06.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.7	482.25	
6	Type 1	1130+41.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	385.80	
6	Type 1	1130+81.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	385.80	
6	Type 1	1131+21.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	385.80	
6	Type 1	1131+61.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	385.80	
6	Type 1	1132+01.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
6	Type 1	1132+76.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



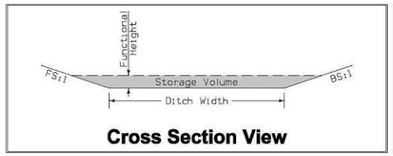
Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

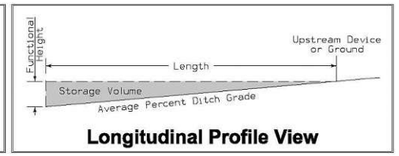
Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
6	Type 1	1133+51.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
6	Type 1	1134+26.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.9	723.38	
6	Type 1	1135+01.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.4	964.50	
6	Type 1	1136+01.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.1	964.50	
6	Type 1	1137+01.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.8	1494.97	
7	Type 1	1141+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.2	3038.17	
7	Type 1	1147+18.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.2	964.50	
7	Type 1	1148+18.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.2	964.50	
7	Type 1	1149+19.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.2	964.50	
7	Type 1	1150+19.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.2	964.50	
7	Type 1	1151+19.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.0	1494.97	
7	Type 1	1152+74.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.0	1494.97	
8	Type 1	1168+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
8	Type 1	1169+21.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
8	Type 1	1169+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
8	Type 1	1170+21.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
8	Type 1	1173+55.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	Basin 8A
8	Type 1	1175+10.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.2	578.70	Basin 8A
8	Type 1	1175+70.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.0	723.38	Basin 8A
8	Type 1	1176+45.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.8	723.38	Basin 8A
8	Type 1	1177+20.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	723.38	Basin 8A
8	Type 1	1177+95.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	Basin 8A
8	Type 1	1178+95.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.5	3038.17	Basin 8A
8	Type 1	1182+10.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.5	3038.17	Basin 8A
9	Type 1	1203+04.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.1	964.50	
9	Type 1	1204+04.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
9	Type 1	1204+64.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
9	Type 1	1205+24.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
9	Type 1	1205+84.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
9	Type 1	1206+44.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.9	1494.97	
9	Type 1	1207+99.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.9	1494.97	
9	Type 1	1209+54.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.9	1494.97	
9	Type 1	1211+09.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.9	1494.97	
10	Type 1	1213+94.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.8	1494.97	
10	Type 1	1214+13.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
10	Type 1	1214+73.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
10	Type 1	1215+33.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.4	578.70	
11	Type 1	1217+25.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.5	3038.17	
11	Type 1	1217+33.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.2	3038.17	
12	Type 1	1219+81.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.4	3038.17	
12	Type 1	1220+26.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.0	434.02	
12	Type 1	1220+70.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.0	434.02	
12	Type 1	1221+16.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.0	434.02	
12	Type 1	1221+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	
12	Type 1	1222+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
12	Type 1	1223+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	
12	Type 1	1224+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	
12	Type 1	1225+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	
12	Type 1	1226+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	
12	Type 1	1227+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.5	964.50	
12	Type 1	1228+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
12	Type 1	1229+21.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
12	Type 1	1229+71.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.6	482.25	
12	Type 1	1230+21.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.5	3038.17	
13	Type 1	1232+70.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
13	Type 1	1232+78.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
13	Type 1	1233+78.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
13	Type 1	1234+78.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
14	Type 1	1238+70.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.2	3038.17	
14	Type 1	1241+50.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
14	Type 1	1243+05.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
14	Type 1	1244+60.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.7	1494.97	
14	Type 1	1246+15.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.4	3038.17	
15	Type 1	1250+94.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.8	1494.97	
15	Type 1	1254+45.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	434.02	
15	Type 1	1254+90.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	434.02	
15	Type 1	1255+35.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	3.5	434.02	
15	Type 1	1256+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.4	3038.17	
16	Type 1	1258+10.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.6	723.38	
16	Type 1	1258+85.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.0	578.70	
16	Type 1	1259+45.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.0	578.70	
16	Type 1	1260+05.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	2.0	578.70	
17	Type 1	1261+45.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.6	1494.97	
17	Type 1	1263+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	0.6	1494.97	
17	Type 1	1264+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	
17	Type 1	1265+00.00	Right	23.0	23.0	23.0	3.5	3.0	10.0	1.3	964.50	

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1090+00.00		Right	Ditch Check	20 inch	23.00	5.21% Slope
1090+22.00		Right	Ditch Check	20 inch	23.00	5.21% slope
1090+44.00		Right	Ditch Check	20 inch	23.00	5.21% slope
1090+66.00		Right	Ditch Check	20 inch	23.00	5.21% slope
1118+20.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1118+47.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1118+74.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1119+01.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1119+28.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1119+55.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1119+82.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1120+09.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1120+36.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1120+63.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1120+90.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1121+17.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1121+44.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1121+71.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1121+98.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1122+25.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1122+52.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1122+79.00		Right	Ditch Check	20 inch	23.00	4.60% slope
1141+27.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1141+54.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1141+81.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1142+08.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1142+35.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1142+62.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1142+89.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1143+16.00		Right	Ditch Check	20 inch	23.00	4.69% slope
1144+32.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1144+54.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1144+76.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1144+98.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1145+20.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1145+42.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1145+64.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1145+86.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1146+08.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1146+30.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1146+52.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1146+74.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1146+96.00		Right	Ditch Check	20 inch	23.00	5.37% slope
1162+50.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1162+77.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1163+04.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1163+31.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1163+58.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1163+85.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1164+12.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1164+39.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1164+66.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1164+93.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1165+20.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1165+47.00		Right	Ditch Check	20 inch	23.00	4.20% slope

100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1165+74.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1166+01.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1166+28.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1166+55.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1166+82.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1167+09.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1167+36.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1167+63.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1167+90.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1168+17.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1168+44.00		Right	Ditch Check	20 inch	23.00	4.20% slope
1200+59.00		Right	Ditch Check	20 inch	23.00	4.33% slope
1200+86.00		Right	Ditch Check	20 inch	23.00	4.33% slope
1201+13.00		Right	Ditch Check	20 inch	23.00	4.33% slope
1201+40.00		Right	Ditch Check	20 inch	23.00	4.33% slope
1201+67.00		Right	Ditch Check	20 inch	23.00	4.33% slope
1201+94.00		Right	Ditch Check	20 inch	23.00	4.33% slope
1253+42.00		Right	Ditch Check	20 inch	23.00	6.31% slope
1253+61.00		Right	Ditch Check	20 inch	23.00	6.31% slope
1253+80.00		Right	Ditch Check	20 inch	23.00	6.31% slope
1253+99.00		Right	Ditch Check	20 inch	23.00	6.31% slope
1078+26.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1083+76.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1091+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1098+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1103+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1113+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1120+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1127+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1134+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1141+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1148+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1155+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1162+75.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1168+50.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1174+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1178+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1190+25.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1194+50.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1201+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1204+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1209+50.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1214+40.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1222+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1233+09.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1240+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1254+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1257+75.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet
1264+00.00		Median	Perimeter and Slope	12 inch	38.00	Around pipe inlet

ROLLED EROSION CONTROL

Refer to EC-101, EC-103 and EC-104.

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	TRM Type (EC-104)	TRM Quantity (Squares)	Slope Protection (EC-103) (Squares)	Special Ditch Control (EC-101) (Squares)	Remarks
1.0	I-35	1089+50.00	1091+00.00	Right	150.0	16.0				24.0	
2.0	I-35	1118+00.00	1123+00.00	Right	500.0	16.0				80.0	
3.0	I-35	1141+00.00	1143+72.00	Right	272.0	16.0				44.0	
4.0	I-35	1143+82.00	1147+00.00	Right	318.0	16.0				51.0	
5.0	I-35	1162+50.00	1168+50.00	Right	600.0	16.0				96.0	
6.0	I-35	1200+50.00	1202+49.00	Right	199.0	16.0				32.0	
7.0	I-35	1253+23.00	1254+00.00	Right	77.0	16.0				12.0	

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Erosion Stone (TON)	Remarks
1.0	I-35	1214+00.00		Right	21.90	10.0	Type 4 - Rock Splash Basin	40.3	21.400		
2.0	I-35	1221+66.42		Right	16.00	10.0	Type 4 - Rock Splash Basin	31.1	17.600		
3.0	I-35	1232+74.20		Right	11.60	10.0	Type 4 - Rock Splash Basin	24.3	12.800		
4.0	I-35	1253+13.00		Right	10.00	10.5	Type 4 - Rock Splash Basin	22.6	11.600		
5.0	I-35	1256+50.00		Right	10.50	10.0	Type 4 - Rock Splash Basin	22.6	11.600		
6.0	I-35	1258+05.19		Right	10.50	10.0	Type 4 - Rock Splash Basin	22.6	11.600		

STORMWATER DRAINAGE BASIN

Refer to EC Standards and 570s Details.

Basin No.	Station From	Station To	Direction of Traffic	Side	Discharge Station	Discharge Direction	Total Disturbed Area (ACRES)	Disturbed Area with Storage Provided (ACRES)	Disturbed Area without Storage Provided (ACRES)	Best Management Practice	Total Storage Volume Provided (CF)	Total Storage Volume Required (CF)	Storage Volume Met	Remarks
1	1078+85.00	1088+00.00	NB	R/M	1078+85.00	S	1.8	1.8		Silt Fence for Ditch Check (EC-201)	9356.60	6480.0	Yes	
2	1088+00.00	1097+15.00	NB	Right	1089+50.00	W	2.2	2.2		Silt Basin (EW-403)	1887.50	7920.0	Yes	
2	+.00									Silt Fence for Ditch Check (EC-201)	7138.00			
2	+.00										1133.60			Perimeter and Slope or Ditch Check Devices
3	1097+15.00	1104+65.00	NB	Right	1100+51.59	W	1.6	1.6		Silt Basin (EW-403)	2800.00	5760.0	Yes	
3	+.00									Silt Fence for Ditch Check (EC-201)	6076.90			
4	1104+65.00	1110+30.00	NB	Right	1108+82.00	W	1.2	1.2		Silt Basin (EW-403)	2662.50	4320.0	Yes	
4	+.00									Silt Fence for Ditch Check (EC-201)	4485.40			
5	1110+30.00	1129+63.00	NB	Right	1115+13.00	W	4.1	4.1		Silt Basin (EW-403)	2548.80	14760.0	Yes	
5	+.00									Silt Fence for Ditch Check (EC-201)	12202.10			
5	+.00										6260.60			Perimeter and Slope or Ditch Check Devices
6	1129+63.00	1137+73.00	NB	Right	1129+86.00	W	2.0	2.0		Silt Basin (EW-403)	983.80	7200.0	Yes	
6	+.00									Silt Fence for Ditch Check (EC-201)	7861.40			
7	1137+73.00	1154+44.80	NB	Right	1143+77.00	W	3.9	3.9		Silt Basin (EW-403)	1592.50	14040.0	Yes	
7	+.00									Silt Fence for Ditch Check (EC-201)	9887.10			
7	+.00										6466.70			Perimeter and Slope or Ditch Check Devices
8	1154+00.00	1173+50.00	NB	Right	1162+46.25	E	3.4	3.4		Silt Fence for Ditch Check (EC-201)	1929.20	12240.0	No	Also long. silt fence along toe
8	+.00										7999.70			Perimeter and Slope or Ditch Check Devices
8	1173+50.00	1186+93.00	NB	Right	1173+55.00	E	2.2	2.2		Silt Fence for Ditch Check (EC-201)	11285.70	7920.0	Yes	Basin 8A
9	1198+84.00	1212+00.00	NB	Right	1202+49.00	W	2.8	2.8		Silt Basin (EW-403)	2167.50	10080.0	Yes	
9	+.00									Silt Fence for Ditch Check (EC-201)	9260.10			
9	+.00										2086.90			Perimeter and Slope or Ditch Check Devices
10	1212+00.00	1215+71.00	NB	Right	1214+00.00	E	0.8	0.8		Silt Fence for Ditch Check (EC-201)	3231.40	2880.0	Yes	
11	1215+71.00	1218+00.00	NB	Right	1217+29.00	E	0.4	0.4		Silt Fence for Ditch Check (EC-201)	6076.90	1440.0	Yes	
12	1218+00.00	1231+30.00	NB	Right	1221+66.00	E	2.8	2.8		Silt Fence for Ditch Check (EC-201)	14468.90	10080.0	Yes	
13	1231+30.00	1235+34.00	NB	Right	1232+74.00	E	0.7	0.7		Silt Fence for Ditch Check (EC-201)	4388.90	2520.0	Yes	
14	1238+66.00	1248+71.00	NB	Right	1238+66.00	E	1.8	1.8		Silt Fence for Ditch Check (EC-201)	10562.30	6480.0	Yes	
15	1248+71.00	1256+05.00	NB	Right	1256+05.00	E	1.5	1.5		Silt Basin (EW-403)	1321.30	5400.0	Yes	
15	+.00									Silt Fence for Ditch Check (EC-201)	3472.50			
15	+.00										979.00			Perimeter and Slope or Ditch Check Devices
16	1258+05.00	1260+41.00	NB	Right	1258+05.00	E	0.5	0.5		Silt Fence for Ditch Check (EC-201)	2459.70	1800.0	Yes	
17	1260+41.00	1265+00.00	NB	Right	1265+00.00	N	0.9	0.9		Silt Fence for Ditch Check (EC-201)	4919.40	3240.0	Yes	

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

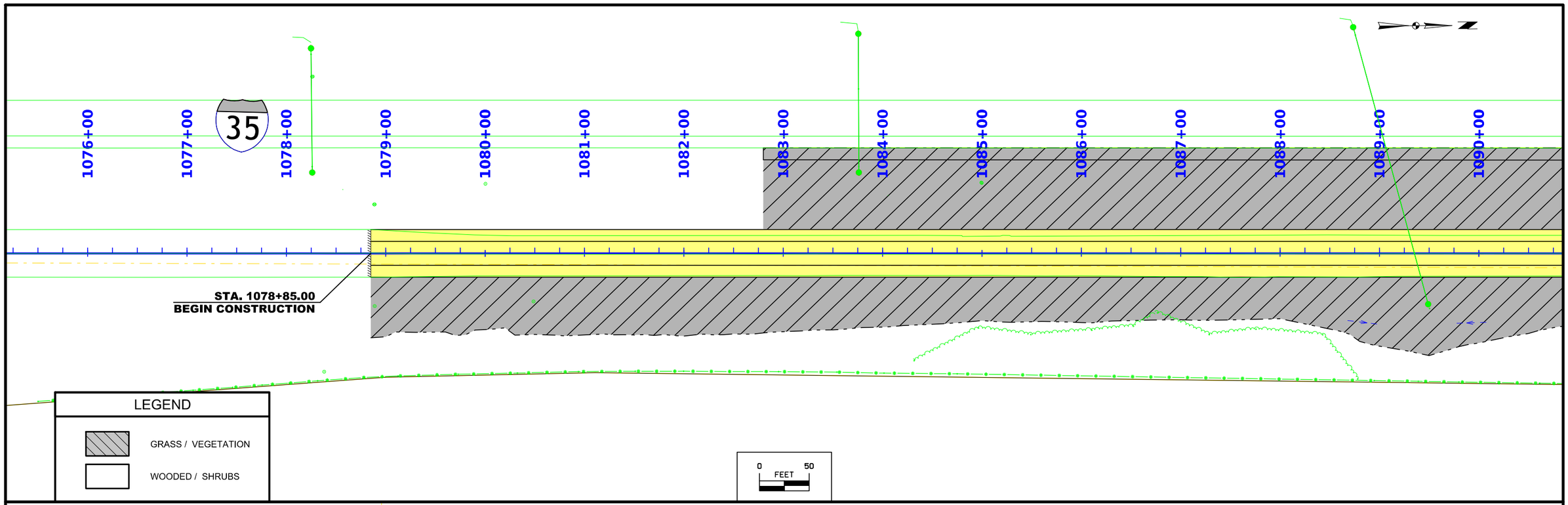
Rock Features, Temporary

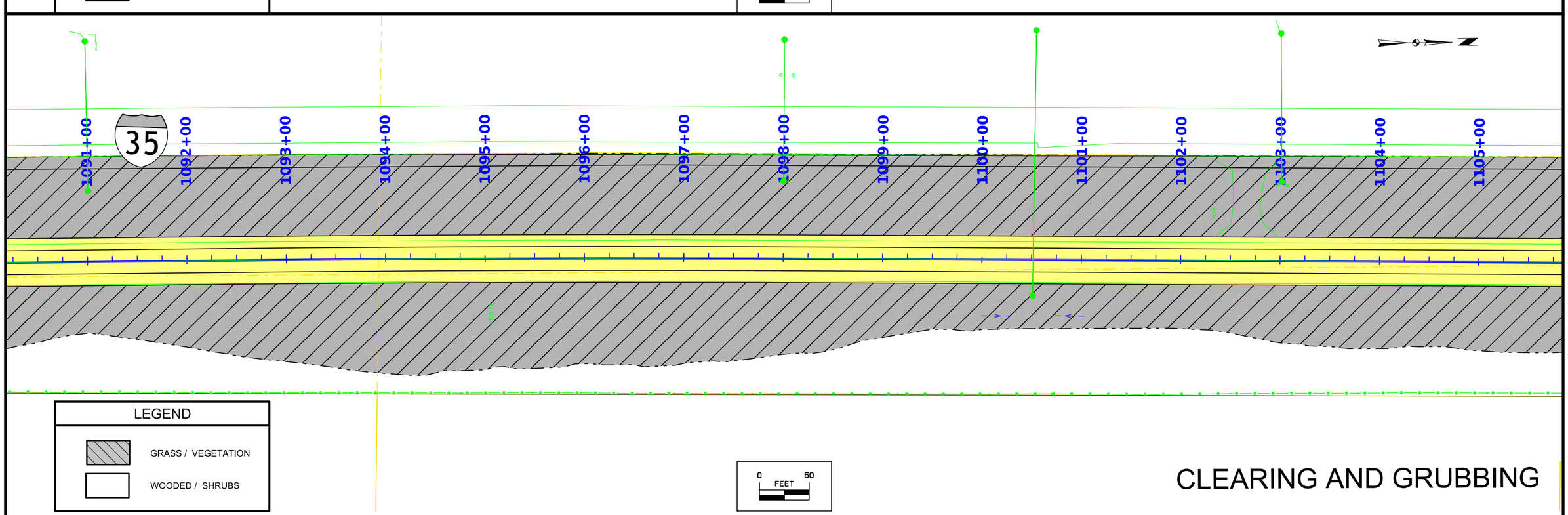
EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES R)

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

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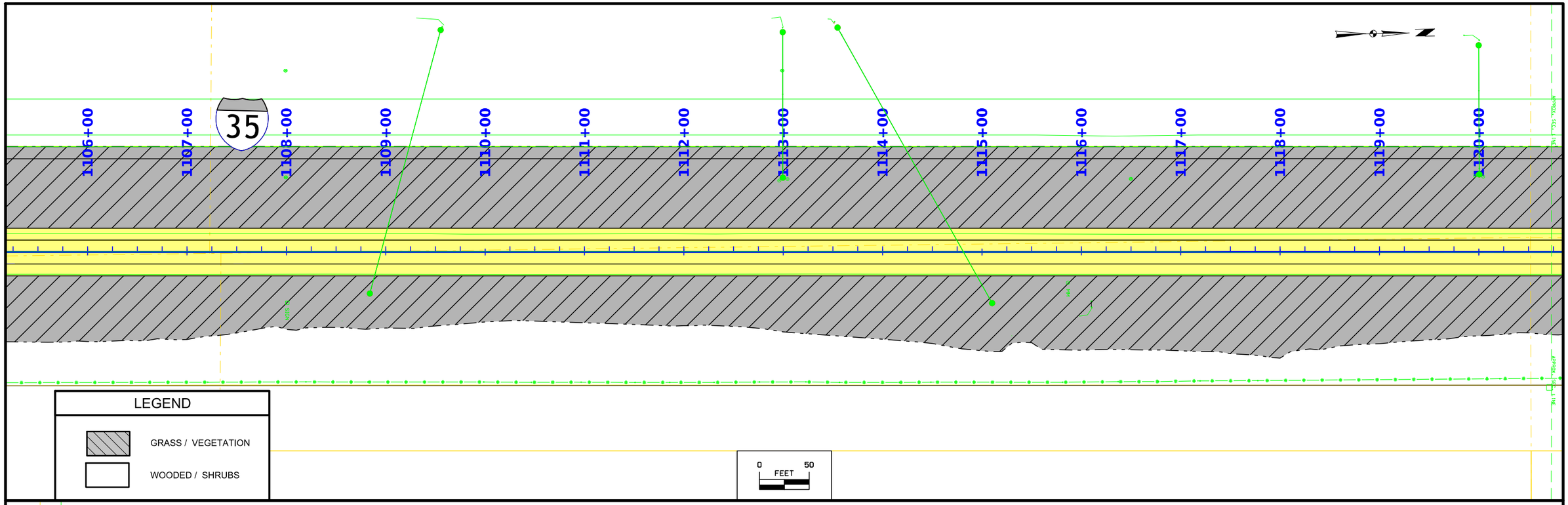


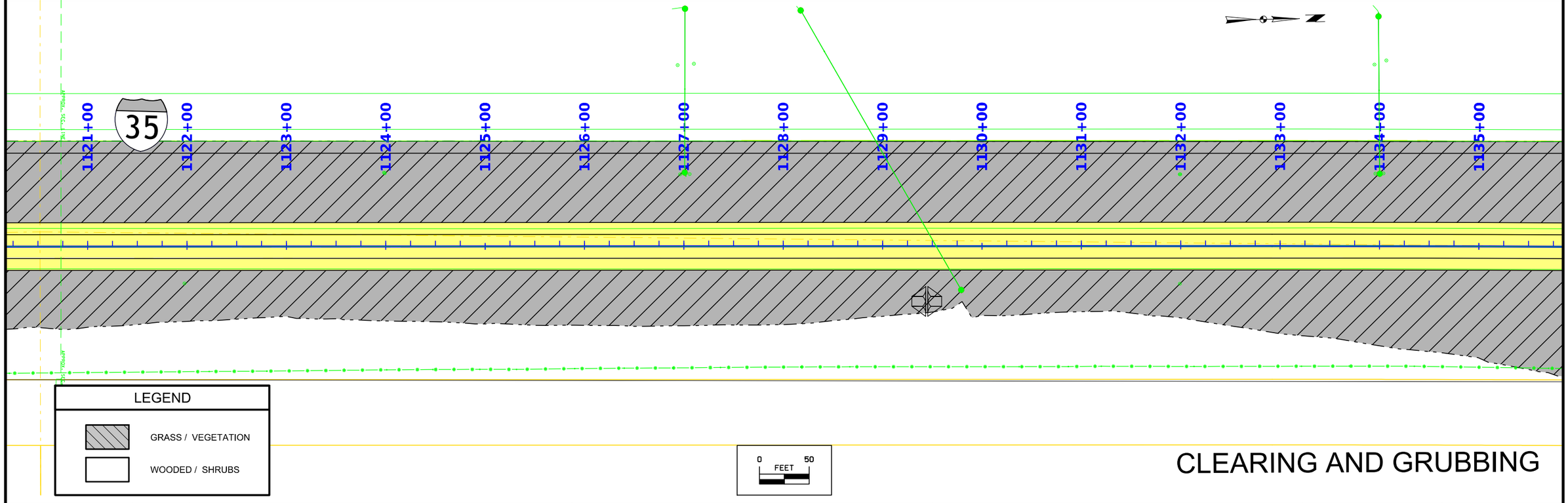


CLEARING AND GRUBBING

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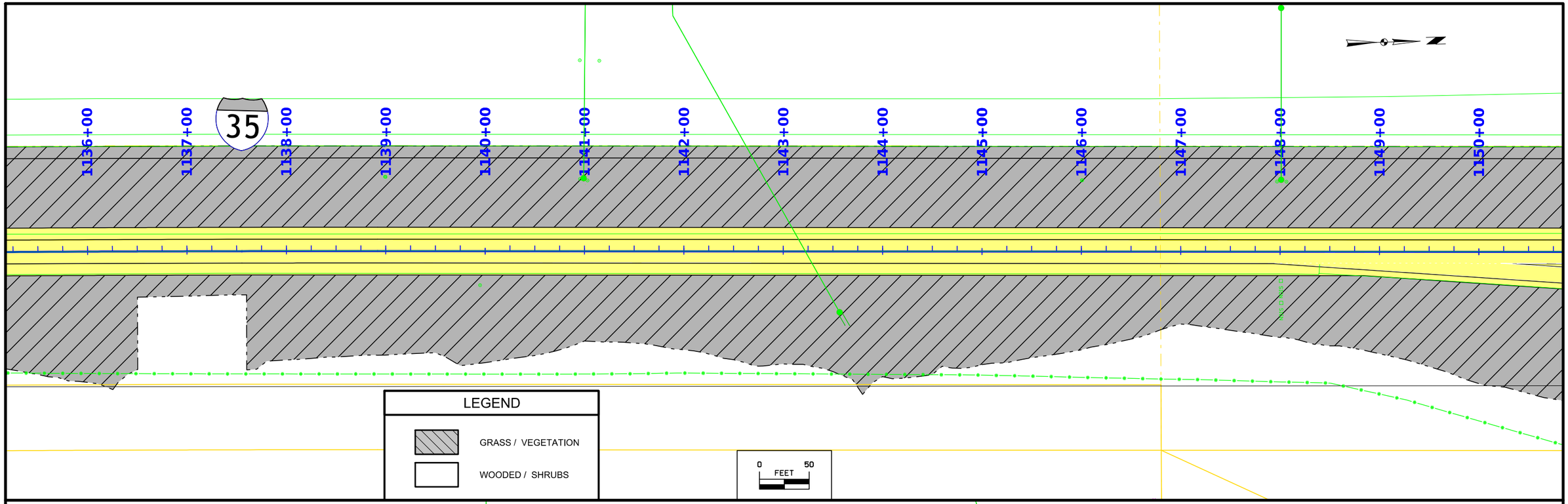


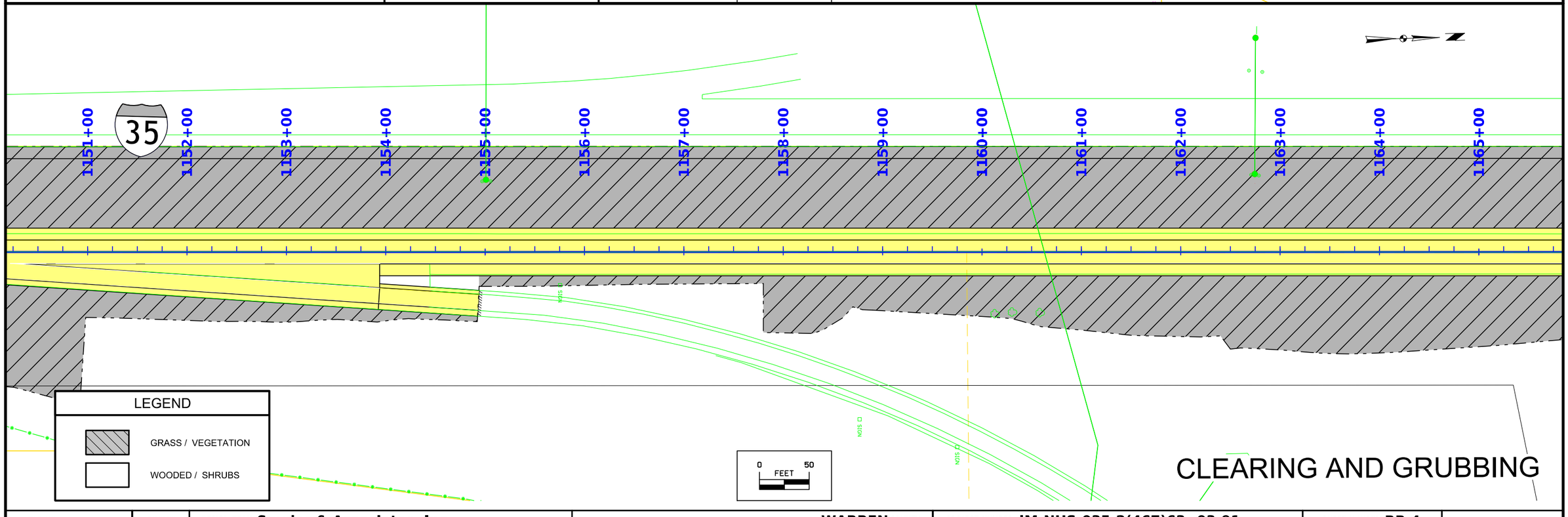


CLEARING AND GRUBBING

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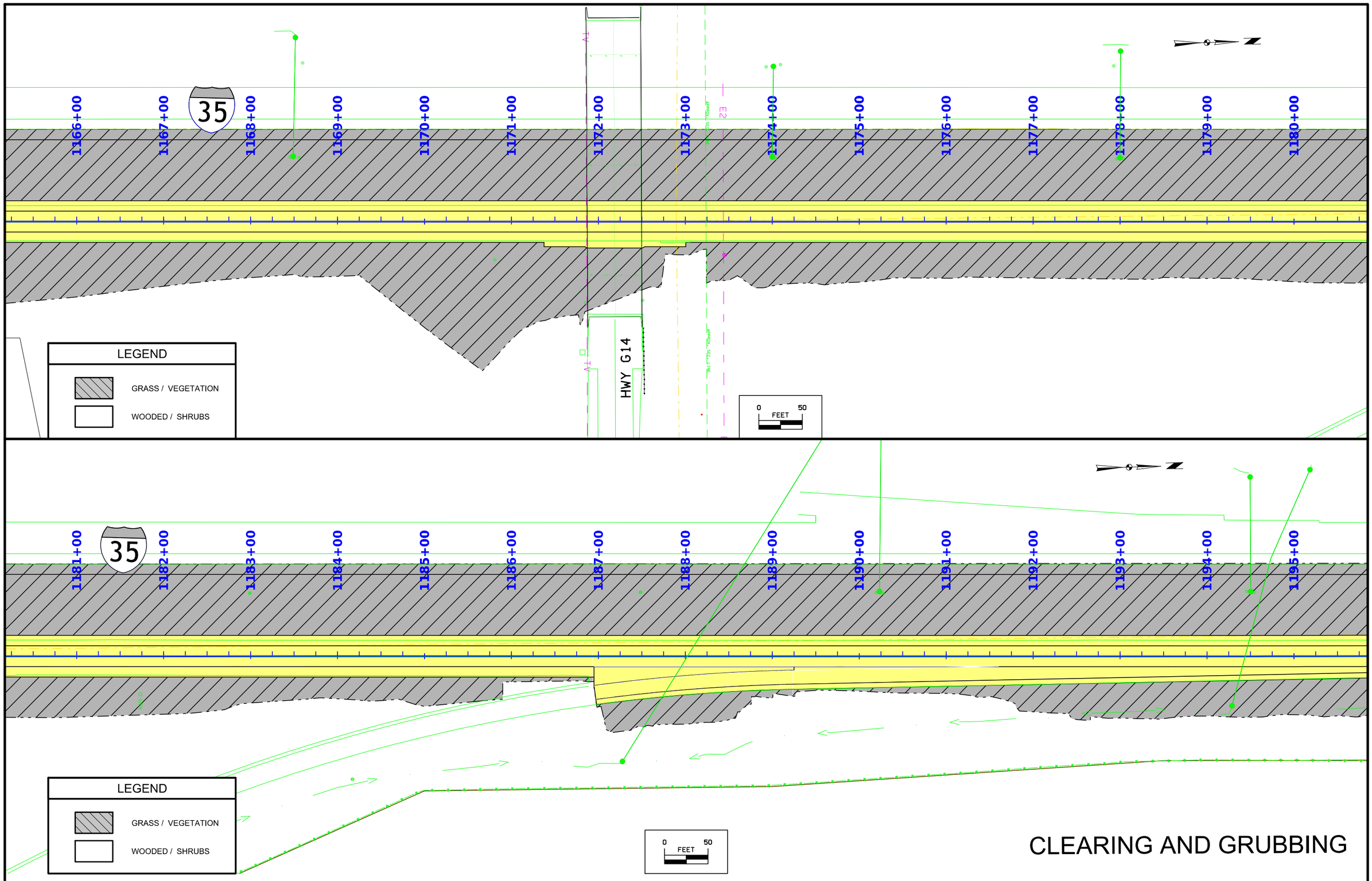




CLEARING AND GRUBBING

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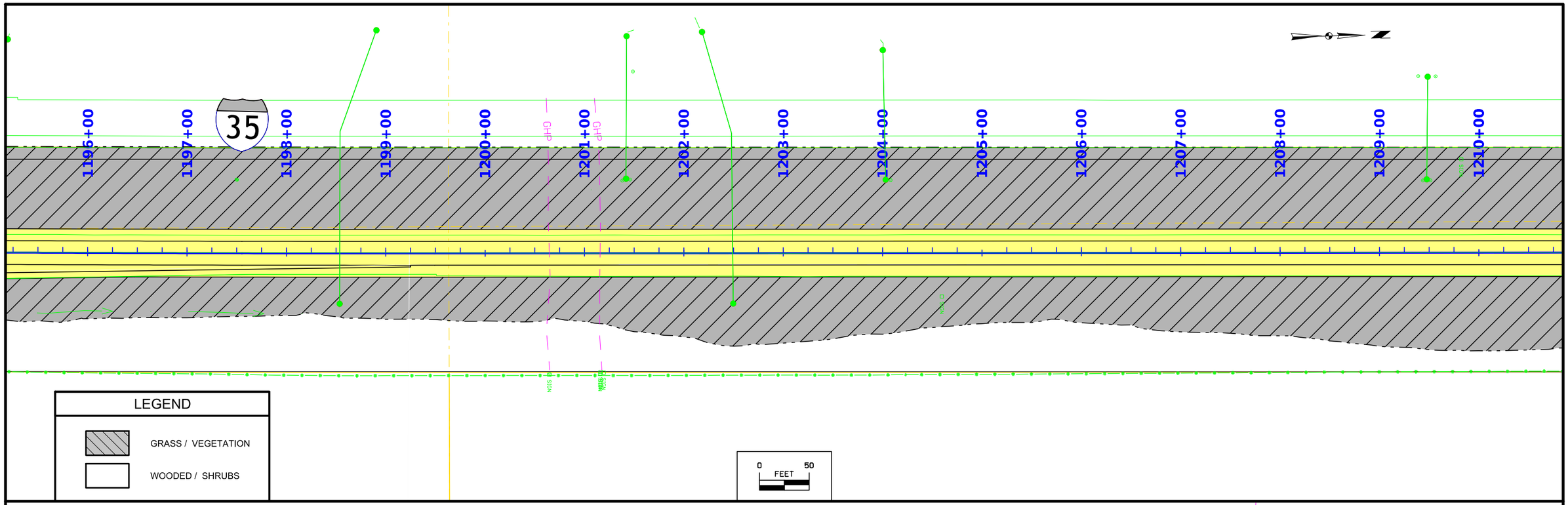
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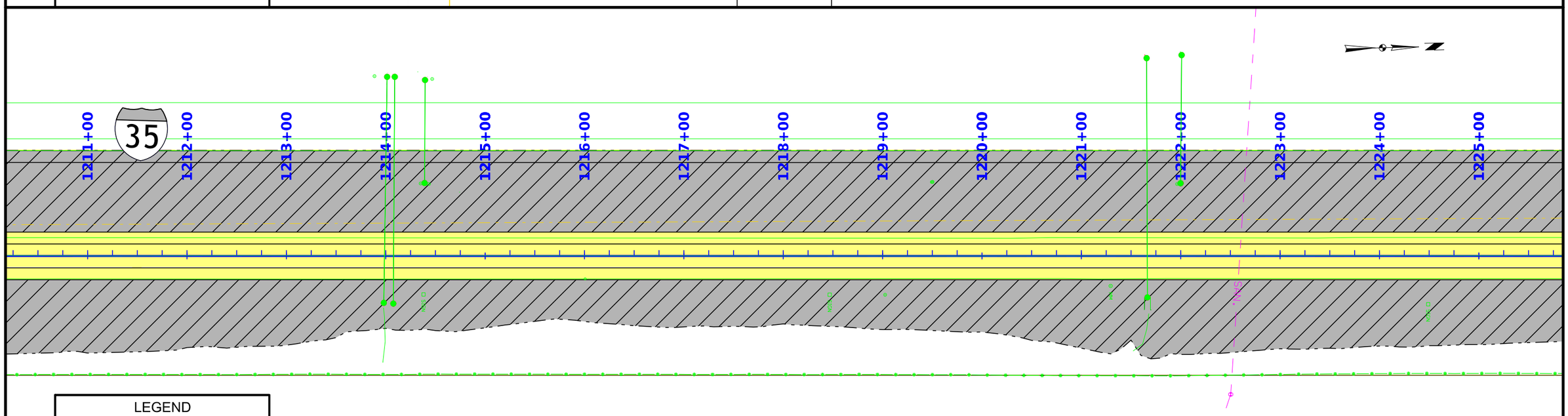


CLEARING AND GRUBBING

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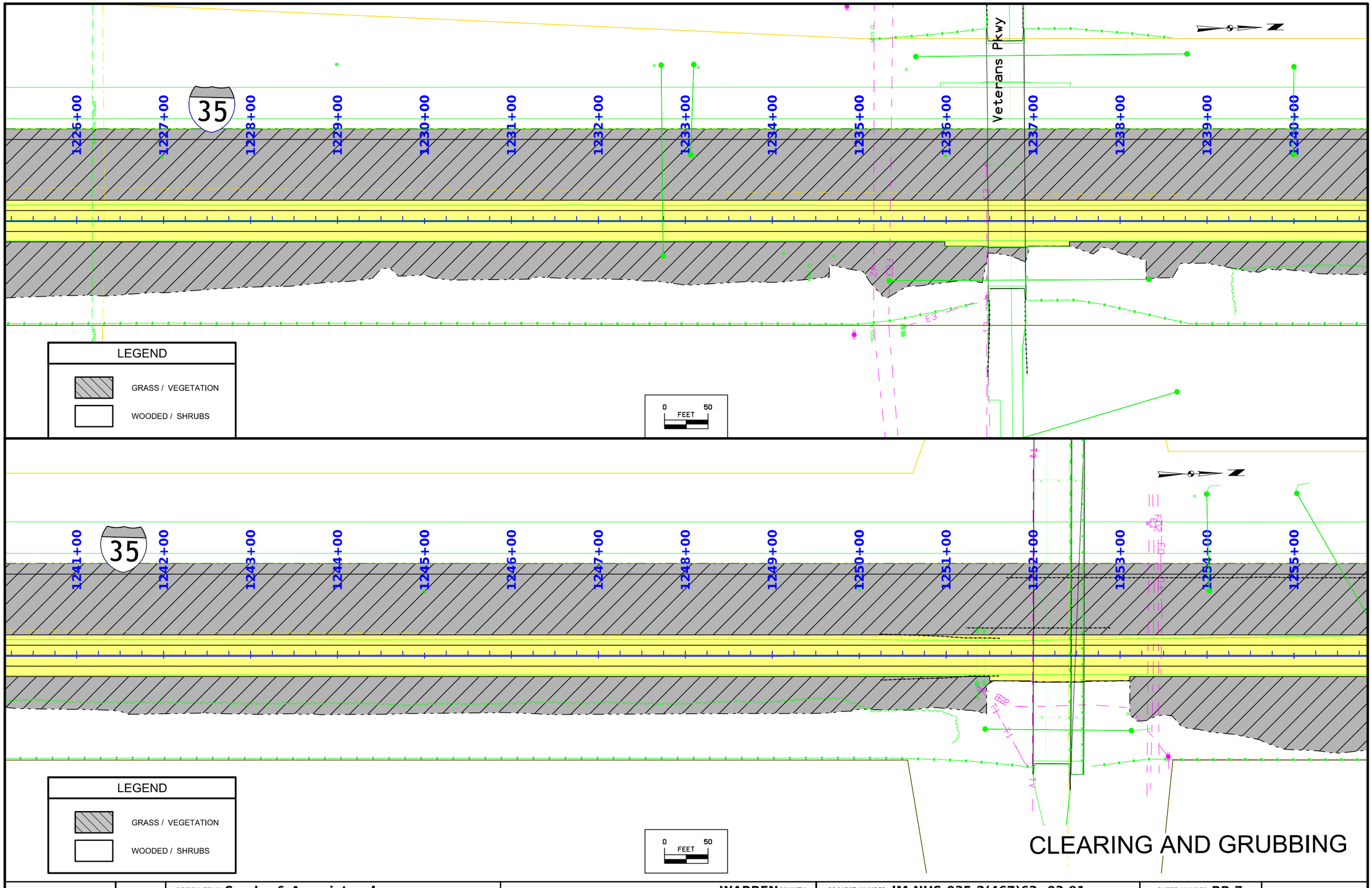




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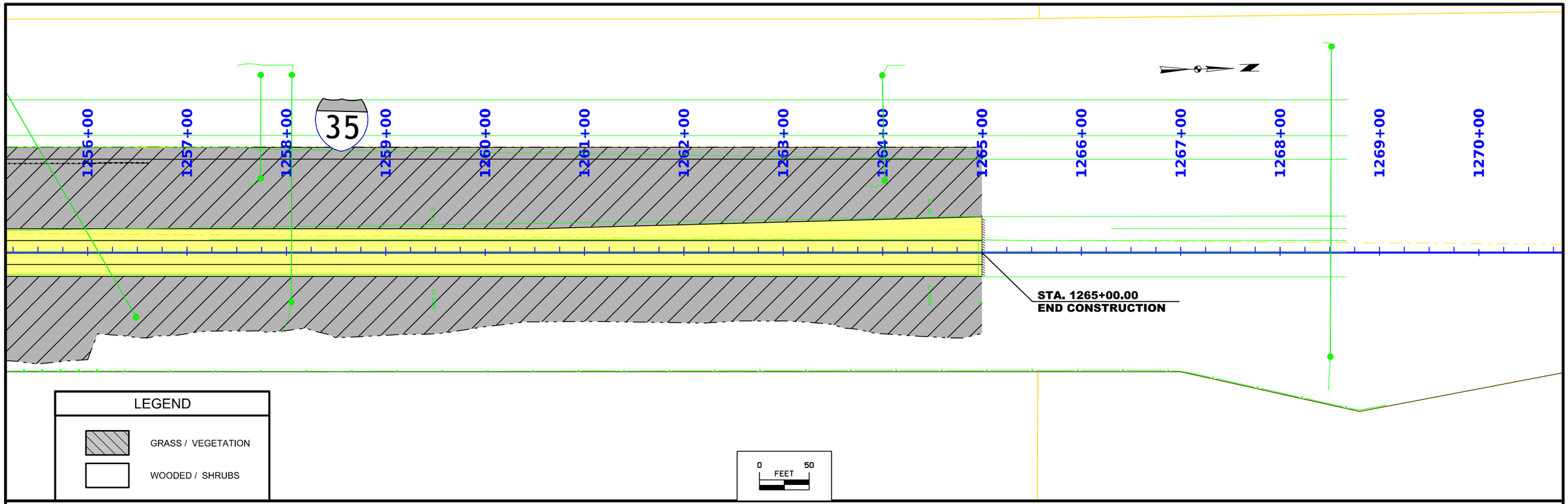
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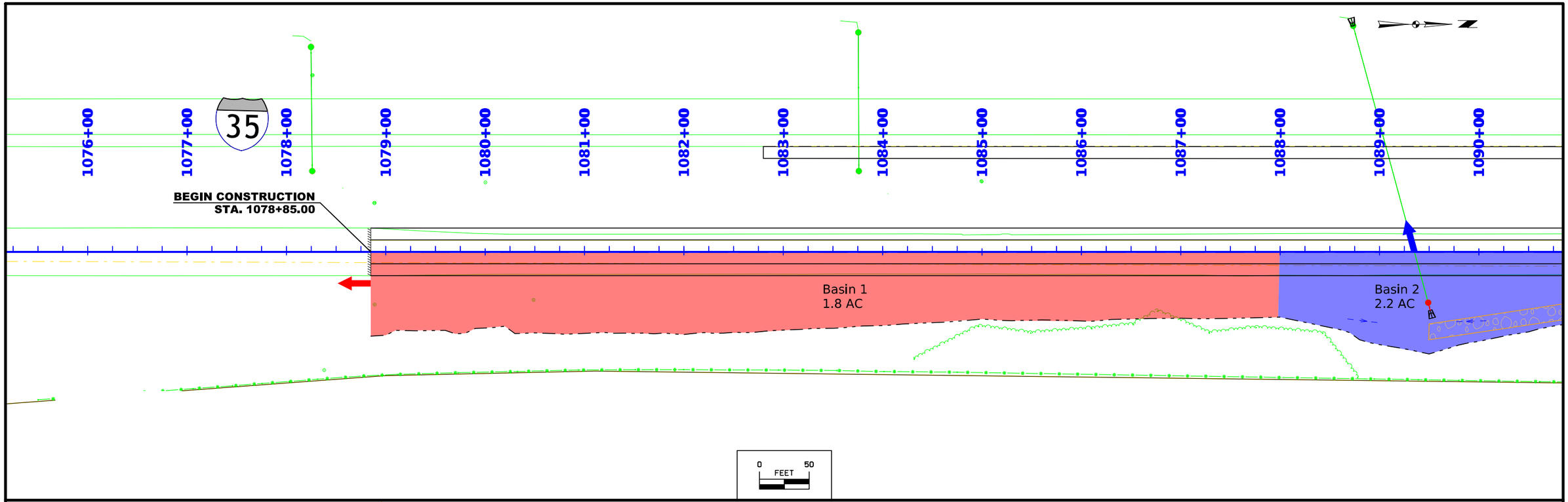
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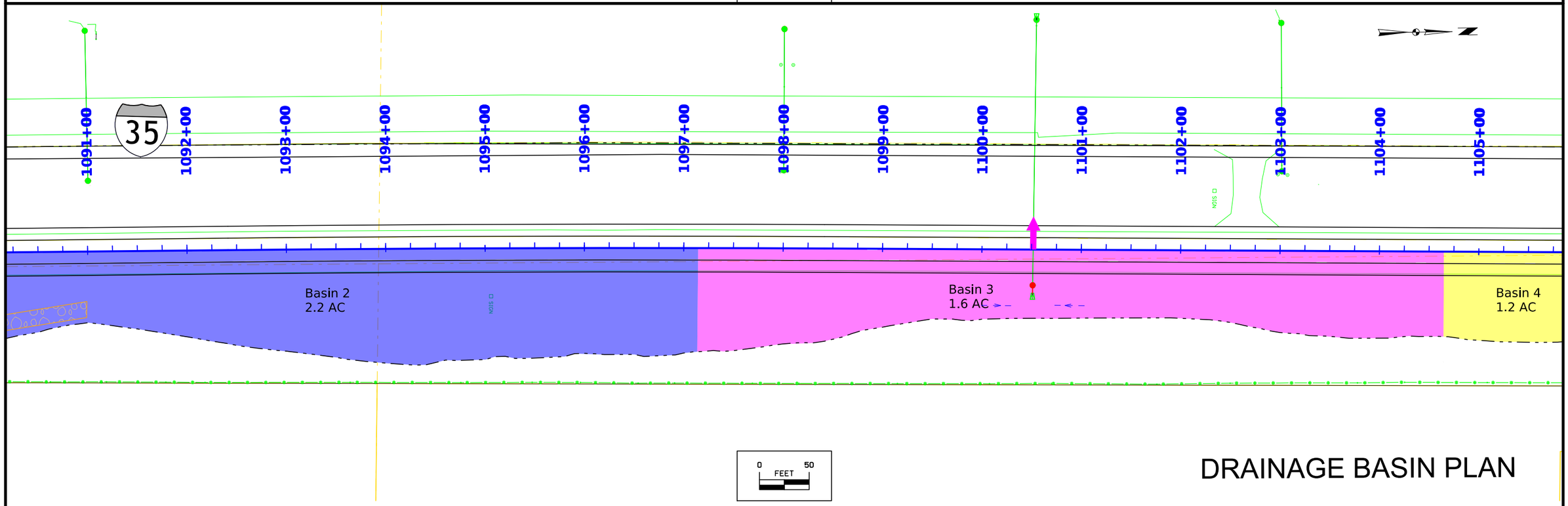
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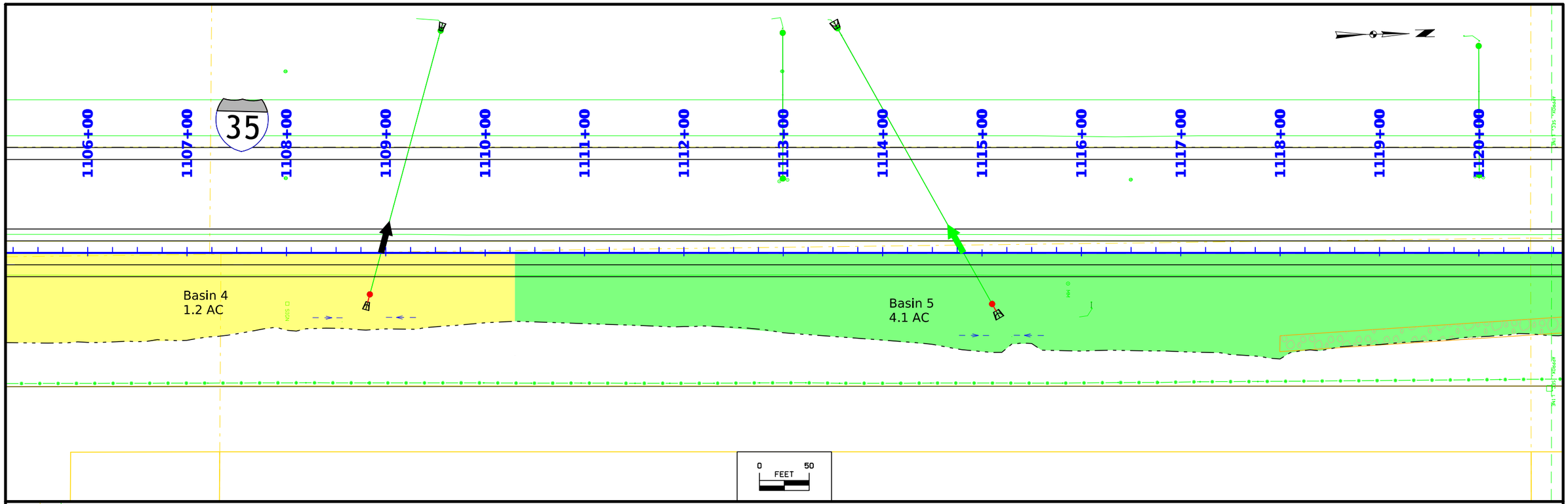


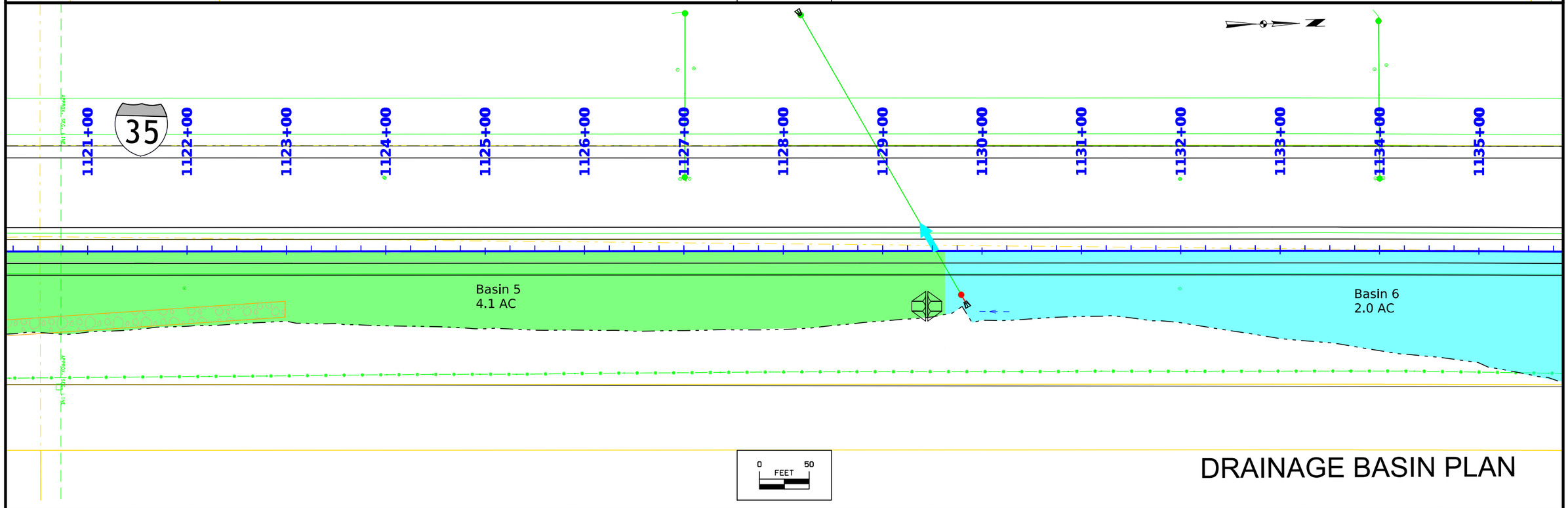


DRAINAGE BASIN PLAN

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

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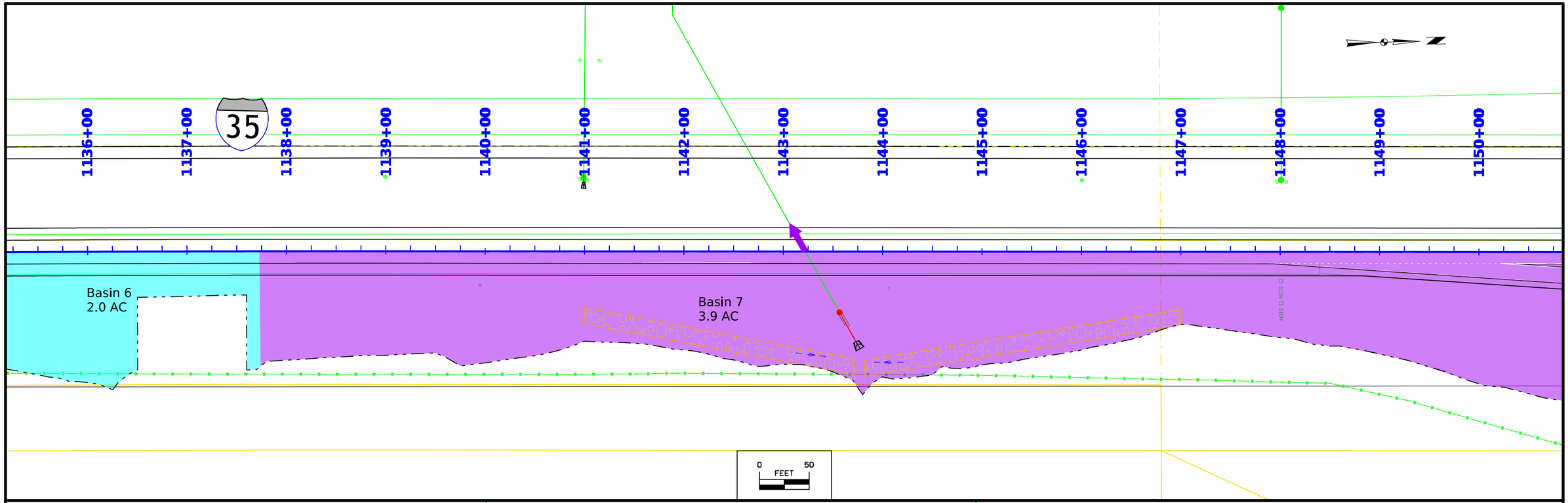


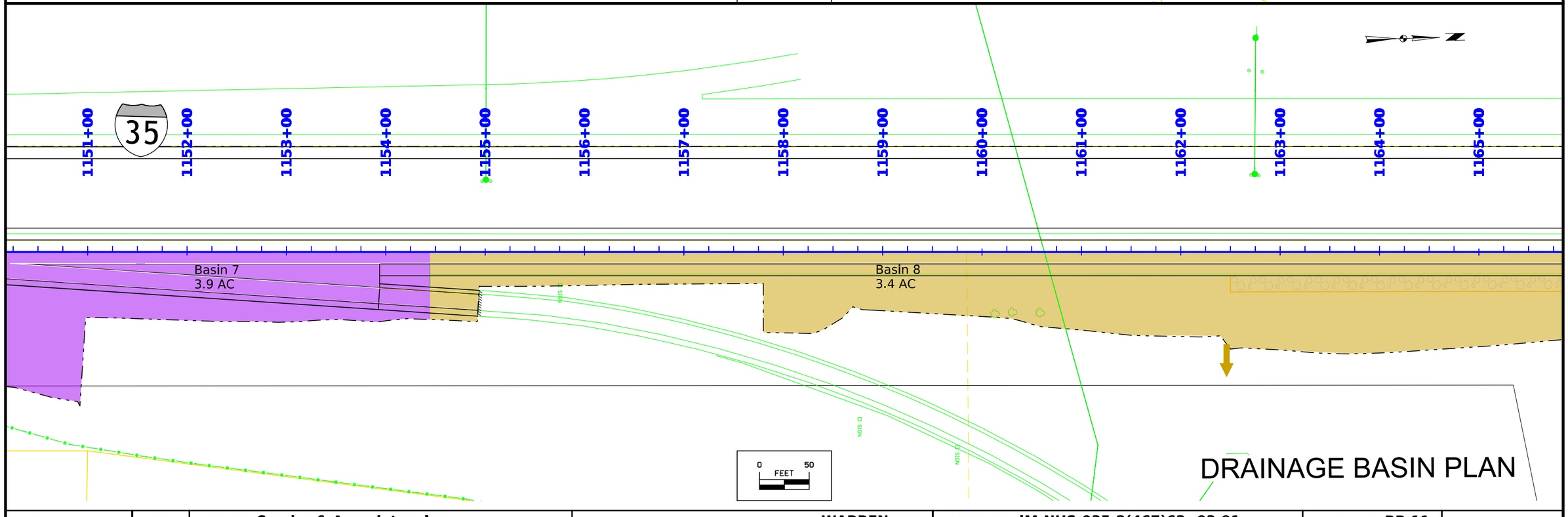


DRAINAGE BASIN PLAN

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

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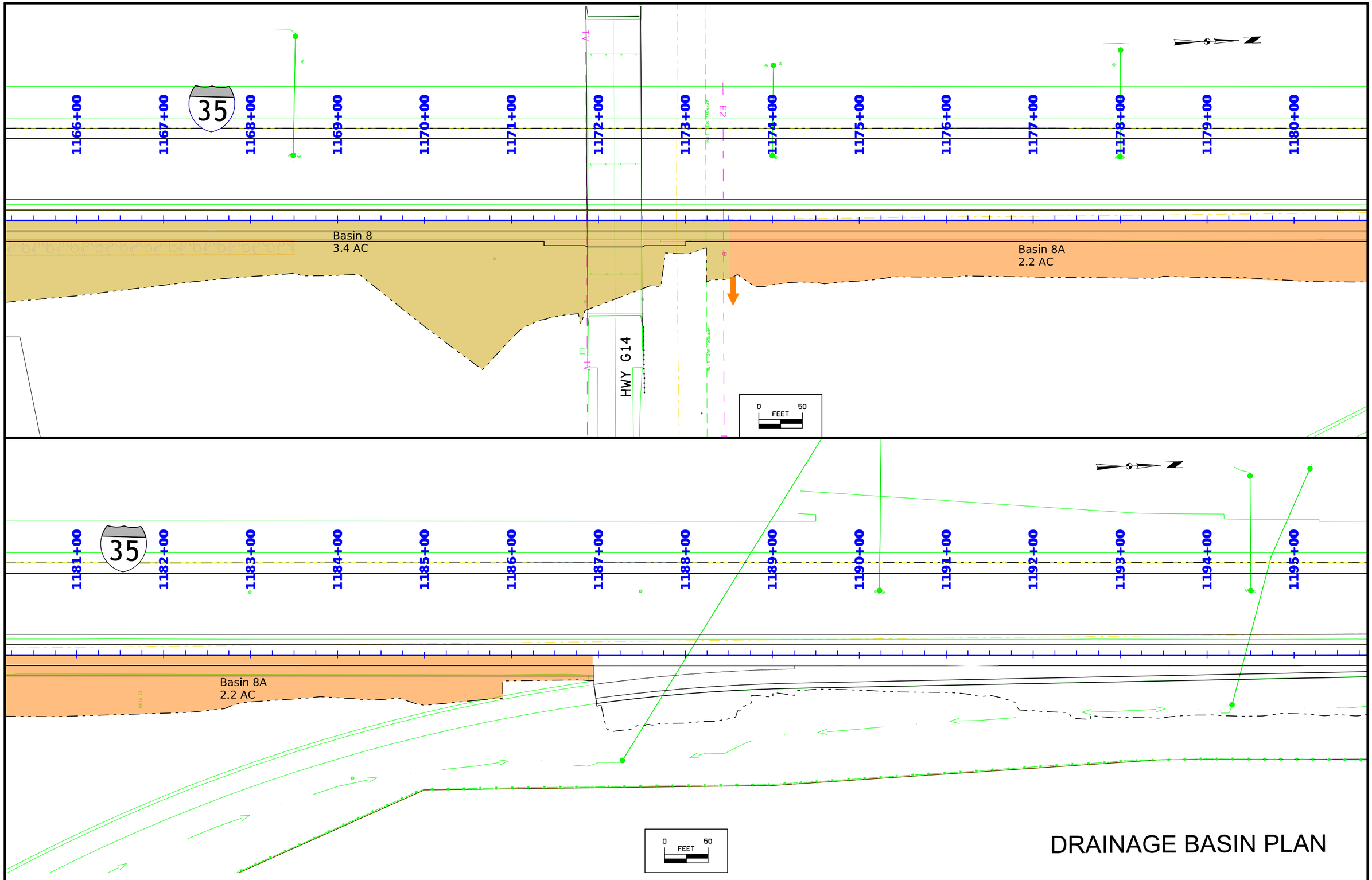




DRAINAGE BASIN PLAN

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

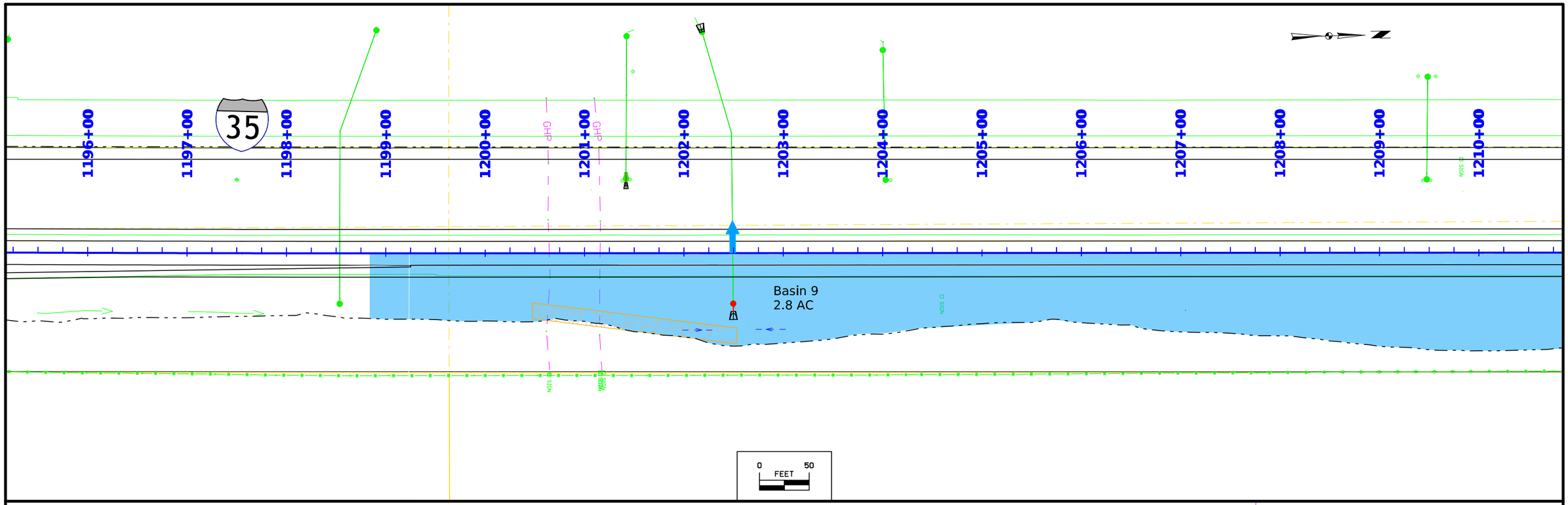
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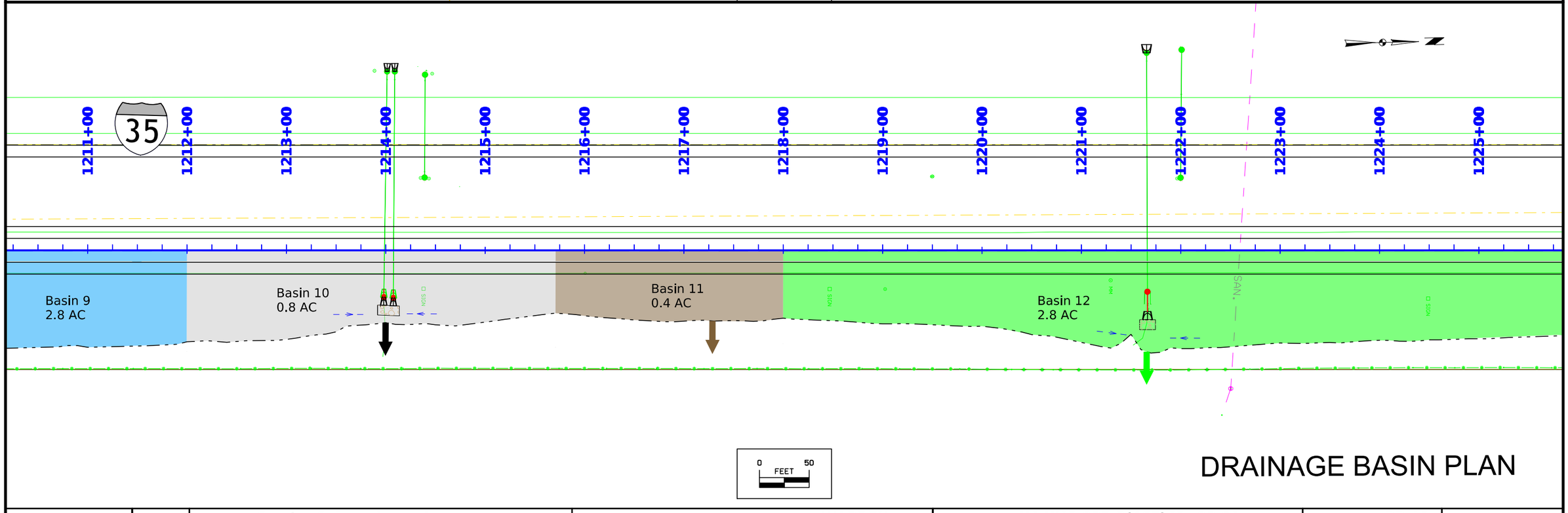


DRAINAGE BASIN PLAN

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

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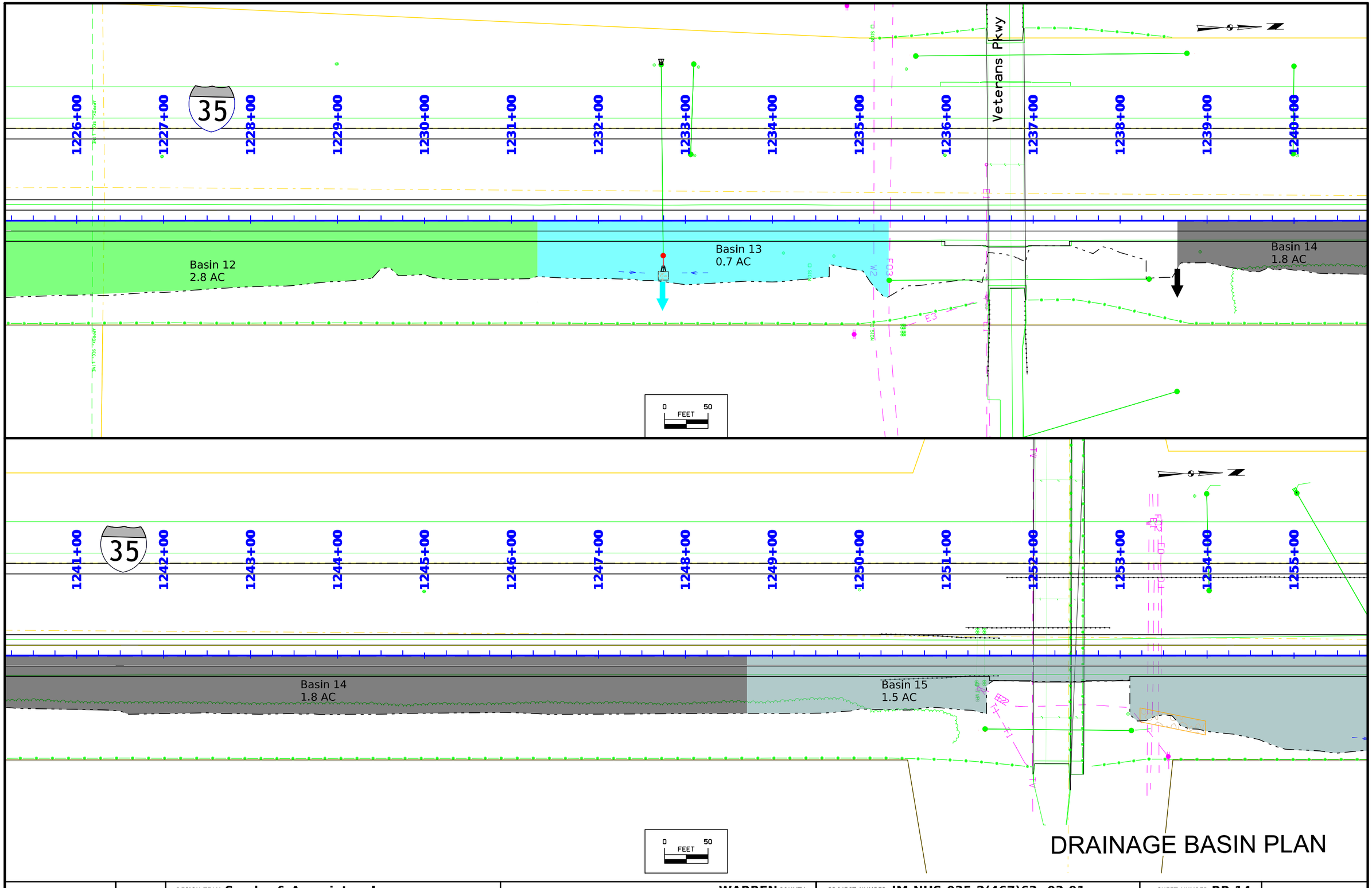




DRAINAGE BASIN PLAN

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

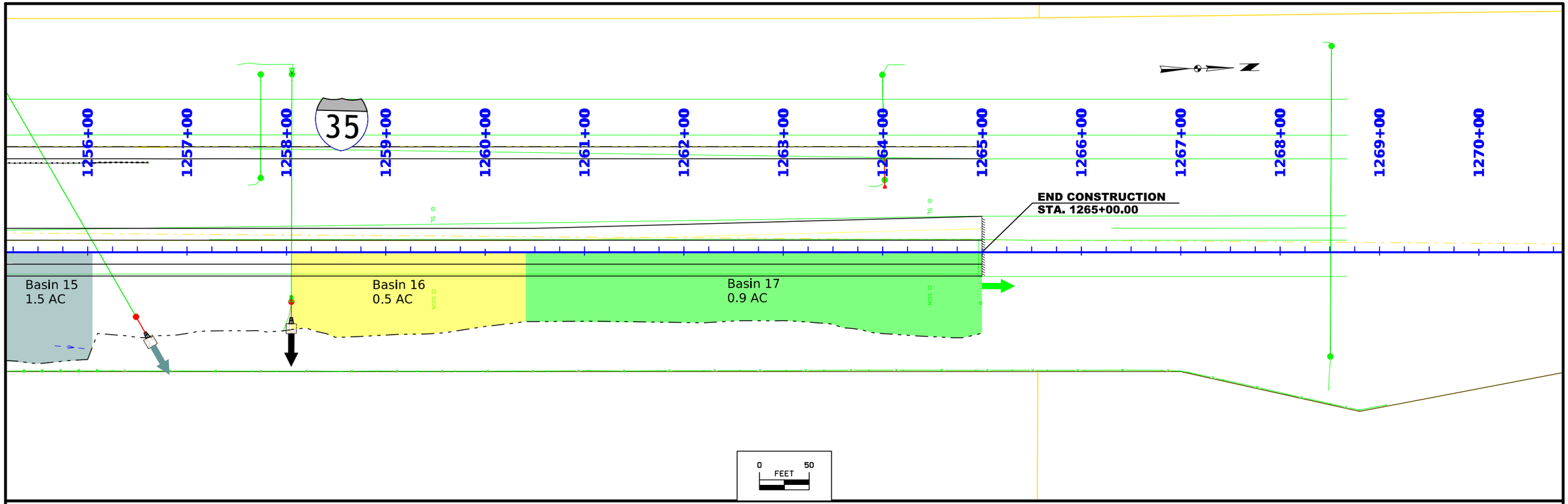
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DRAINAGE BASIN PLAN

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

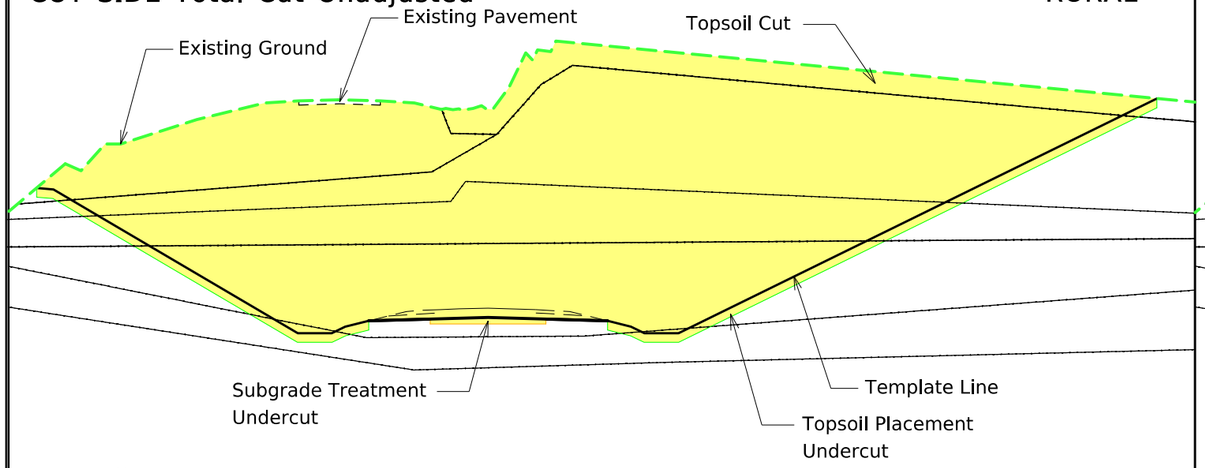
9:56:21 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_RR09toRR15.dgn



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

9:56:22 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_RR09toRR15.dgn

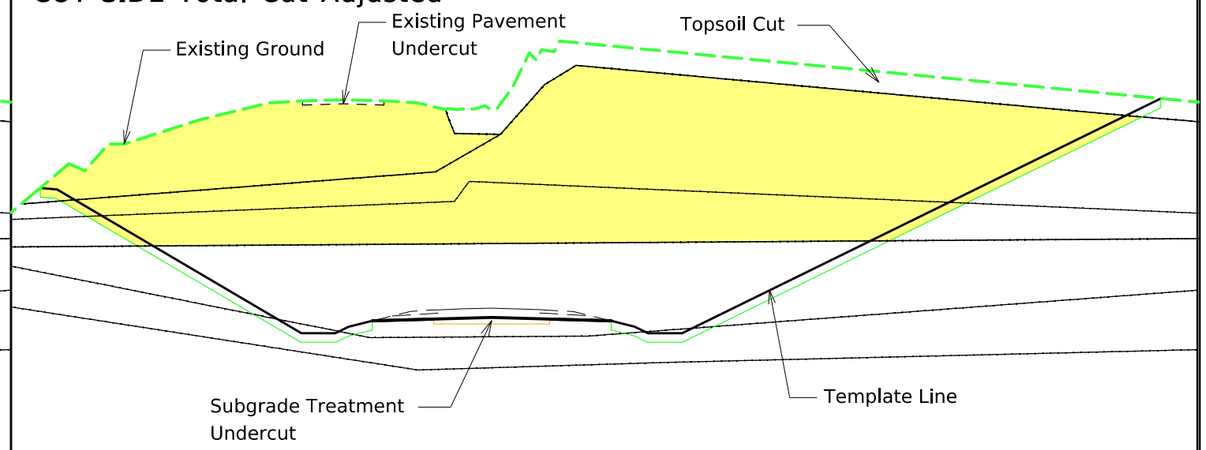
CUT SIDE Total Cut Unadjusted — RURAL



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

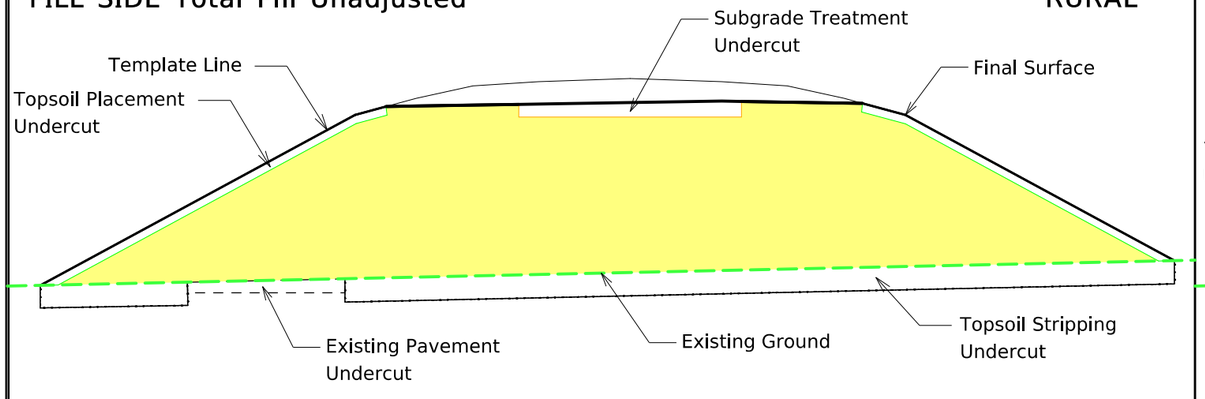
CUT SIDE Total Cut Adjusted



Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

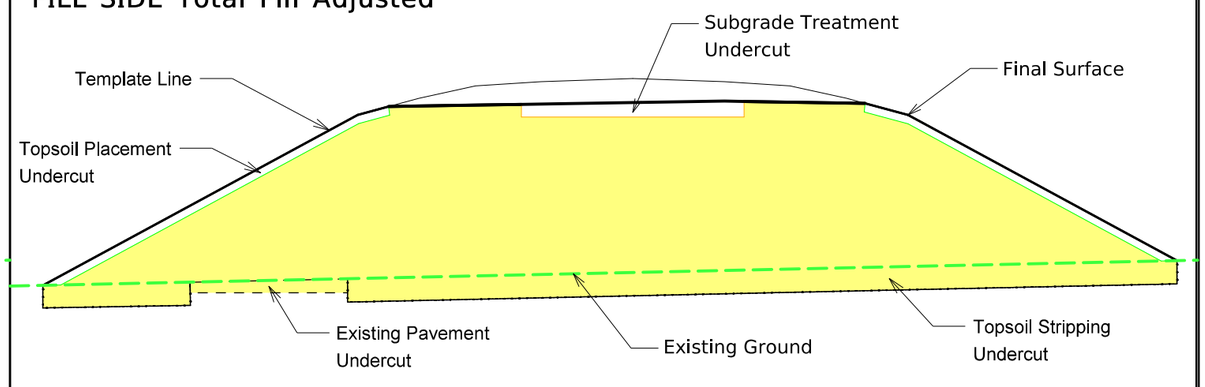
FILL SIDE Total Fill Unadjusted — RURAL



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

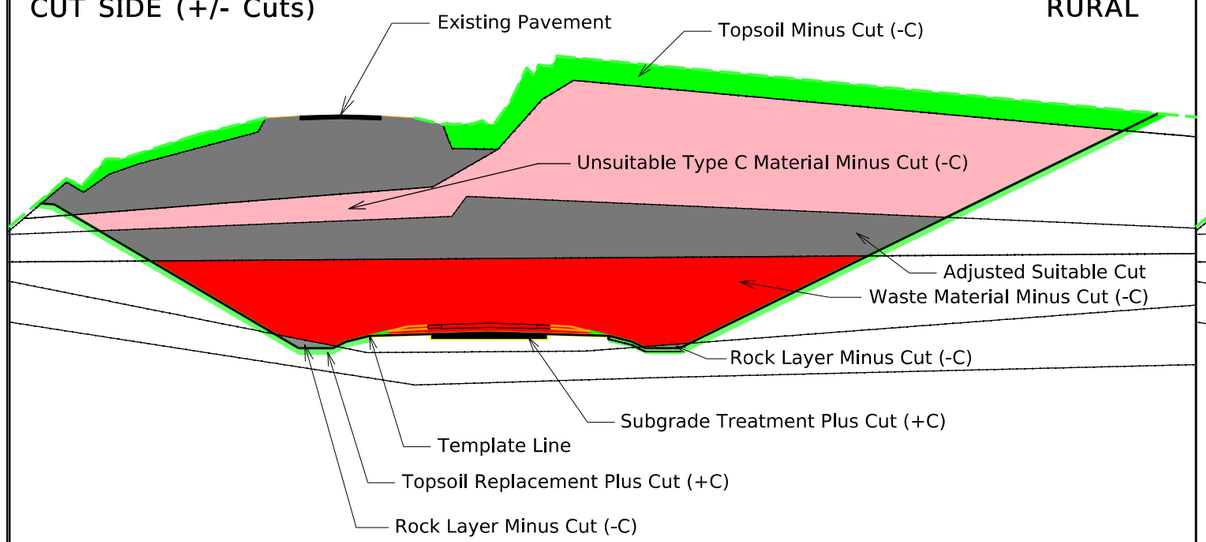
FILL SIDE Total Fill Adjusted



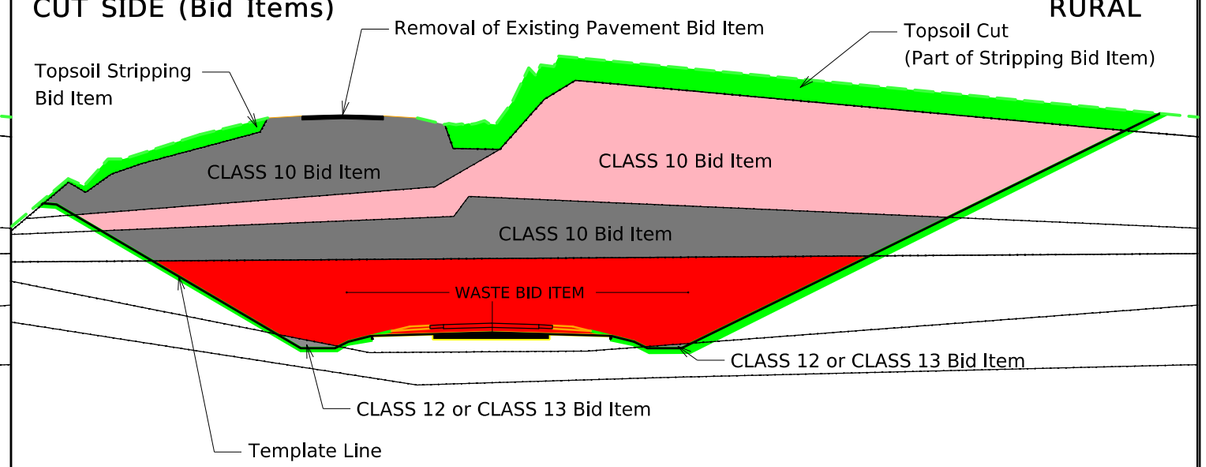
Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

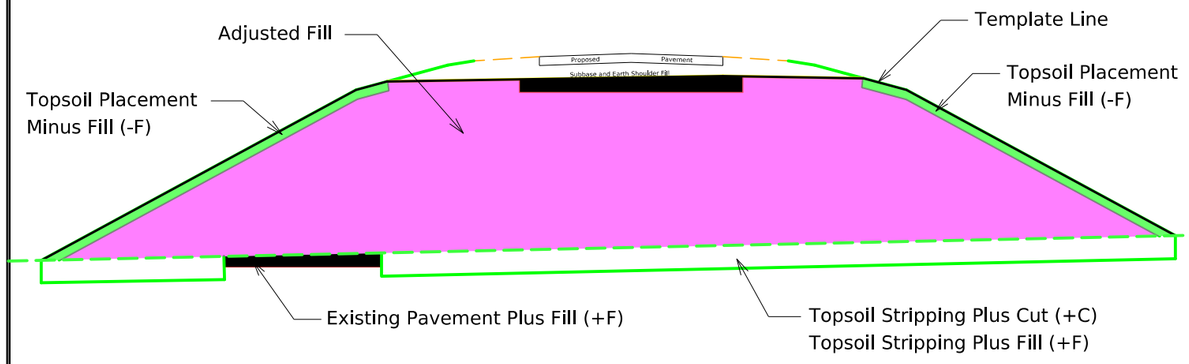
CUT SIDE (+/- Cuts) — RURAL



CUT SIDE (Bid Items) — RURAL



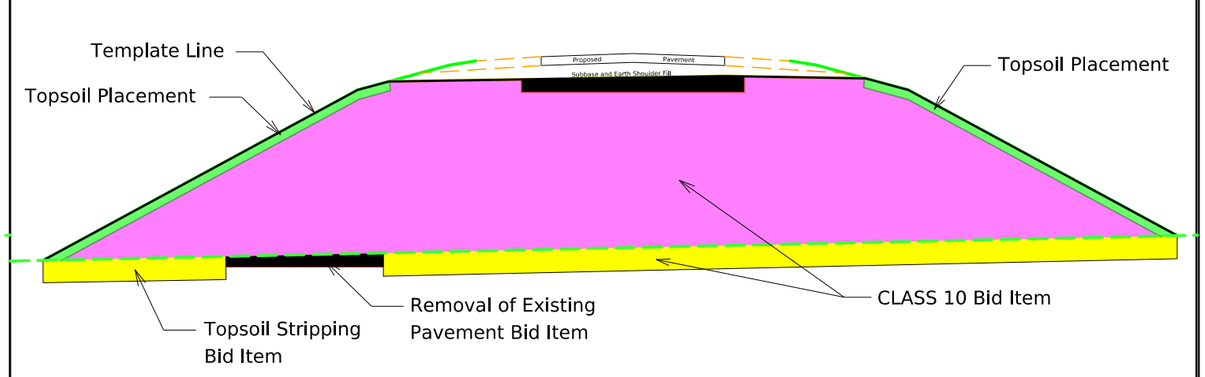
FILL SIDE (+/- Fills) — RURAL



Notes:

1. "Add Quantity +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12, or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.
5. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILL SIDE (Bid Items) — RURAL



Notes:

1. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

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

10:08:43 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_Legend.dgn

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
I-35SB																						
1074+27.37																						
1074+50.00	25	25	0	0	0	0	25	0	0	0	25	0	0	0	0	0	0					
1075+00.00	58	58	0	0	0	0	58	0	0	0	58	0	0	0	0	0	0					
1075+50.00	70	70	0	0	0	0	70	0	0	0	70	0	0	0	0	0	0					
1076+00.00	70	70	0	0	0	0	70	0	0	0	70	0	0	0	0	0	0					
1076+50.00	68	68	0	0	0	0	68	0	0	0	68	0	0	0	0	0	0					
1077+00.00	66	66	0	0	0	0	66	0	0	0	66	0	0	0	0	0	0					
1077+50.00	64	64	0	0	0	0	64	0	0	0	65	0	0	0	0	0	0					
1078+00.00	63	63	0	0	0	0	63	0	0	0	63	0	0	0	0	0	0					
1078+50.00	62	62	0	0	0	0	62	0	0	0	62	0	0	0	0	0	0					
1079+00.00	61	61	0	0	0	0	61	3	3	4	58	0	0	0	0	0	0					
1079+50.00	58	58	0	0	0	0	58	6	6	8	49	0	0	0	0	0	0					
1080+00.00	53	53	0	0	0	0	53	8	8	10	43	0	0	0	0	0	0					
1080+50.00	53	53	0	0	0	0	53	8	8	11	42	0	0	0	0	0	0					
1081+00.00	54	54	0	0	0	0	54	8	8	11	43	0	0	0	0	0	0					
1081+50.00	53	53	0	0	0	0	53	8	8	11	43	0	0	0	0	0	0					
1082+00.00	52	52	0	0	0	0	52	9	9	11	41	0	0	0	0	0	0					
1082+50.00	48	48	0	0	0	0	48	10	10	14	35	0	0	0	0	0	0					
1083+00.00	32	32	0	0	0	0	32	10	10	13	19	0	0	0	0	0	0					
1083+50.00	34	34	39	0	0	0	34	7	7	9	25	0	0	39	9	13	26					
1084+00.00	36	36	78	0	0	0	36	14	14	18	19	0	0	78	19	26	52					
1084+50.00	23	23	78	0	0	0	23	16	16	21	2	0	0	78	19	26	52					
1085+00.00	23	23	78	0	0	0	23	17	17	23	0	0	0	78	19	26	52					
1085+50.00	20	20	78	0	0	0	20	28	28	37	-16	0	0	78	19	26	52					
1086+00.00	18	18	78	0	0	0	18	34	34	44	-26	0	0	78	19	26	52					
1086+50.00	19	19	78	0	0	0	19	32	32	42	-23	0	0	78	19	26	52					
1087+00.00	20	20	78	0	0	0	20	27	27	36	-16	0	0	78	19	26	52					
1087+50.00	21	21	78	0	0	0	21	26	26	34	-13	0	0	78	19	26	52					
1088+00.00	21	21	78	0	0	0	21	25	25	33	-12	0	0	78	19	26	52					
1088+50.00	21	21	78	0	0	0	21	26	26	34	-13	0	0	78	19	26	52					
1089+00.00	21	21	78	0	0	0	21	28	28	36	-15	0	0	78	19	26	52					
1089+50.00	20	20	78	0	0	0	20	29	29	38	-17	0	0	78	19	26	52					
1090+00.00	20	20	78	0	0	0	20	21	21	27	-8	0	0	78	19	26	52					
1090+50.00	34	34	78	0	0	0	34	8	8	11	23	0	0	78	19	26	52					
1091+00.00	35	35	78	0	0	0	35	16	16	20	15	0	0	78	19	26	52					
1091+50.00	22	22	78	0	0	0	22	25	25	32	-11	0	0	78	19	26	52					
1092+00.00	21	21	78	0	0	0	21	24	24	31	-10	0	0	78	19	26	52					
1092+50.00	21	21	78	0	0	0	21	24	24	31	-11	0	0	78	19	26	52					
1093+00.00	21	21	78	0	0	0	21	21	21	27	-6	0	0	78	19	26	52					
1093+50.00	22	22	78	0	0	0	22	16	16	21	2	0	0	78	19	26	52					
1094+00.00	23	23	78	0	0	0	23	14	14	18	5	0	0	78	19	26	52					
1094+50.00	23	23	78	0	0	0	23	17	17	22	1	0	0	78	19	26	52					
1095+00.00	23	23	78	0	0	0	23	19	19	25	-2	0	0	78	19	26	52					
1095+50.00	22	22	78	0	0	0	22	20	20	26	-5	0	0	78	19	26	52					
1096+00.00	20	20	78	0	0	0	20	23	23	30	-10	0	0	78	19	26	52					
1096+50.00	18	18	78	0	0	0	18	29	29	37	-20	0	0	78	19	26	52					
1097+00.00	16	16	78	0	0	0	16	36	36	47	-31	0	0	78	19	26	52					
1097+50.00	13	13	78	0	0	0	13	41	41	53	-40	0	0	78	19	26	52					
1098+00.00	12	12	78	0	0	0	12	56	56	73	-61	0	0	78	19	26	52					
1098+50.00	12	12	78	0	0	0	12	58	58	76	-64	0	0	78	19	26	52					
1099+00.00	12	12	78	0	0	0	12	48	48	63	-50	0	0	78	19	26	52					
1099+50.00	12	12	78	0	0	0	12	47	47	61	-48	0	0	78	19	26	52					
1100+00.00	13	13	78	0	0	0	13	45	45	58	-45	0	0	78	19	26	52					
1100+50.00	14	14	78	0	0	0	14	44	44	57	-43	0	0	78	19	26	52					
1101+00.00	16	16	78	0	0	0	16	38	38	50	-35	0	0	78	19	26	52					
1101+50.00	17	17	78	0	0	0	17	31	31	41	-24	0	0	78	19	26	52					
1102+00.00	19	19	78	0	0	0	19	22	22	29	-10	0	0	78	19	26	52					
1102+50.00	54	54	78	0	0	0	54	8	8	11	43	0	0	78	19	26	52					
1103+00.00	55	55	78	0	0	0	55	17	17	22	33	0	0	78	19	26	52					
1103+50.00	22	22	78	0	0	0	22	31	31	41	-19	0	0	78	19	26	52					
1104+00.00	19	19	78	0	0	0	19	27	27	35	-16	0	0	78	19	26	52					
1104+50.00	19	19	78	0	0	0	19	26	26	34	-14	0	0	78	19	26	52					
1105+00.00	20	20	78	0	0	0	20	26	26	34	-14	0	0	78	19	26	52					
1105+50.00	19	19	78	0	0	0	19	27	27	36	-16	0	0	78	19	26	52					
1106+00.00	19	19	78	0	0	0	19	28	28	37	-18	0	0	78	19	26	52					
1106+50.00	19	19	78	0	0	0	19	27	27	35	-16	0	0	78	19	26	52					
1107+00.00	18	18	78	0	0	0	18	26	26	34	-16	0	0	78	19	26	52					
1107+50.00	18	18	78	0	0	0	18	25	25	33	-14	0	0	78	19	26	52					
Subtotals:	2,071	2,071	3,789	0	0	0	2,071	1,392	1,392	1,812	258	0	0	3,789	912	1,280	2,509					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1107+50.00	19	19	78	0	0	0	19	25	25	33	-14	0	0	78	19	26	52					
1108+00.00	19	19	78	0	0	0	19	27	27	35	-16	0	0	78	19	26	52					
1108+50.00	20	20	78	0	0	0	20	29	29	37	-18	0	0	78	19	26	52					
1109+00.00	21	21	78	0	0	0	21	29	29	38	-17	0	0	78	19	26	52					
1109+50.00	21	21	78	0	0	0	21	25	25	33	-12	0	0	78	19	26	52					
1110+00.00	21	21	78	0	0	0	21	20	20	26	-5	0	0	78	19	26	52					
1110+50.00	21	21	78	0	0	0	21	16	16	21	0	0	0	78	19	26	52					
1111+00.00	23	23	78	0	0	0	23	16	16	20	3	0	0	78	19	26	52					
1111+50.00	25	25	78	0	0	0	25	16	16	21	5	0	0	78	19	26	52					
1112+00.00	34	34	78	0	0	0	34	11	11	14	20	0	0	78	19	26	52					
1112+50.00	32	32	78	0	0	0	32	22	22	29	3	0	0	78	19	26	52					
1113+00.00	21	21	78	0	0	0	21	28	28	37	-16	0	0	78	19	26	52					
1113+50.00	21	21	78	0	0	0	21	23	23	29	-9	0	0	78	19	26	52					
1114+00.00	20	20	78	0	0	0	20	29	29	37	-18	0	0	78	19	26	52					
1114+50.00	20	20	78	0	0	0	20	32	32	42	-23	0	0	78	19	26	52					
1115+00.00	20	20	78	0	0	0	20	32	32	42	-21	0	0	78	19	26	52					
1115+50.00	21	21	78	0	0	0	21	31	31	41	-20	0	0	78	19	26	52					
1116+00.00	20	20	78	0	0	0	20	29	29	37	-18	0	0	78	19	26	52					
1116+50.00	20	20	78	0	0	0	20	25	25	32	-12	0	0	78	19	26	52					
1117+00.00	20	20	78	0	0	0	20	28	28	36	-16	0	0	78	19	26	52					
1117+50.00	20	20	78	0	0	0	20	29	29	38	-18	0	0	78	19	26	52					
1118+00.00	19	19	78	0	0	0	19	30	30	40	-20	0	0	78	19	26	52					
1118+50.00	19	19	78	0	0	0	19	29	29	38	-19	0	0	78	19	26	52					
1119+00.00	21	21	78	0	0	0	21	21	21	27	-6	0	0	78	19	26	52					
1119+50.00	22	22	78	0	0	0	22	28	28	37	-15	0	0	78	19	26	52					
1120+00.00	20	20	78	0	0	0	20	34	34	44	-24	0	0	78	19	26	52					
1120+50.00	19	19	78	0	0	0	19	28	28	36	-17	0	0	78	19	26	52					
1121+00.00	19	19	78	0	0	0	19	30	30	39	-20	0	0	78	19	26	52					
1121+50.00	19	19	78	0	0	0	19	32	32	41	-22	0	0	78	19	26	52					
1122+00.00	19	19	78	0	0	0	19	34	34	44	-25	0	0	78	19	26	52					
1122+50.00	20	20	78	0	0	0	20	32	32	41	-22	0	0	78	19	26	52					
1123+00.00	21	21	78	0	0	0	21	32	32	42	-22	0	0	78	19	26	52					
1123+50.00	21	21	78	0	0	0	21	31	31	40	-19	0	0	78	19	26	52					
1124+00.00	21	21	78	0	0	0	21	27	27	35	-14	0	0	78	19	26	52					
1124+50.00	24	24	78	0	0	0	24	19	19	24	0	0	0	78	19	26	52					
1125+00.00	24	24	78	0	0	0	24	17	17	22	2	0	0	78	19	26	52					
1125+50.00	21	21	78	0	0	0	21	25	25	32	-11	0	0	78	19	26	52					
1126+00.00	22	22	78	0	0	0	22	22	22	29	-7	0	0	78	19	26	52					
1126+50.00	23	23	78	0	0	0	23	31	31	40	-18	0	0	78	19	26	52					
1127+00.00	23	23	78	0	0	0	23	31	31	40	-17	0	0	78	19	26	52					
1127+50.00	22	22	78	0	0	0	22	22	22	28	-7	0	0	78	19	26	52					
1128+00.00	21	21	78	0	0	0	21	28	28	36	-16	0	0	78	19	26	52					
1128+50.00	20	20	78	0	0	0	20	29	29	38	-18	0	0	78	19	26	52					
1129+00.00	20	20	78	0	0	0	20	32	32	41	-22	0	0	78	19	26	52					
1129+50.00	19	19	78	0	0	0	19	33	33	43	-24	0	0	78	19	26	52					
1130+00.00	19	19	78	0	0	0	19	31	31	40	-21	0	0	78	19	26	52					
1130+50.00	20	20	78	0	0	0	20	30	30	39	-19	0	0	78	19	26	52					
1131+00.00	20	20	78	0	0	0	20	29	29	37	-17	0	0	78	19	26	52					
1131+50.00	20	20	78	0	0	0	20	23	23	30	-9	0	0	78	19	26	52					
1132+00.00	21	21	78	0	0	0	21	22	22	28	-8	0	0	78	19	26	52					
1132+50.00	21	21	78	0	0	0	21	24	24	32	-11	0	0	78	19	26	52					
1133+00.00	22	22	78	0	0	0	22	17	17	22	0	0	0	78	19	26	52					
1133+50.00	22	22	78	0	0	0	22	48	48	62	-40	0	0	78	19	26	52					
1134+00.00	21	21	78	0	0	0	21	60	60	78	-57	0	0	78	19	26	52					
1134+50.00	21	21	78	0	0	0	21	33	33	43	-22	0	0	78	19	26	52					
1135+00.00	21	21	78	0	0	0	21	28	28	37	-16	0	0	78	19	26	52					
1135+50.00	21	21	78	0	0	0	21	23	23	30	-9	0	0	78	19	26	52					
1136+00.00	21	21	78	0	0	0	21	22	22	29	-8	0	0	78	19	26	52					
1136+50.00	21	21	78	0	0	0	21	23	23	29	-9	0	0	78	19	26	52					
1137+00.00	20	20	78	0	0	0	20	22	22	29	-8	0	0	78	19	26	52					
1137+50.00	20	20	78	0	0	0	20	23	23	30	-10	0	0	78	19	26	52					
1138+00.00	21	21	78	0	0	0	21	24	24	31	-10	0	0	78	19	26	52					
1138+50.00	21	21	78	0	0	0	21	26	26	34	-13	0	0	78	19	26	52					
1139+00.00	22	22	78	0	0	0	22	25	25	33	-11	0	0	78	19	26	52					
1139+50.00	22	22	78	0	0	0	22	21	21	27	-6	0	0	78	19	26	52					
1140+00.00	23	23	78	0	0	0	23	16	16	21	2	0	0	78	19	26	52					
1140+50.00	23	23	78	0	0	0	23	24	24	31	-8	0	0	78	19	26	52					
1141+00.00	21	21	78	0	0	0	21	28	28	36	-15	0	0	78	19	26	52					
1141+50.00																						
Subtotals:	1,442	1,442	5,312	0	0	0	1,442	1,816	1,816	2,364	-925	0	0	5,312	1,278	1,795	3,517					

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

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1141+50.00	22	22	78	0	0	0	22	18	18	24	-2	0	0	78	19	26	52					
1142+00.00	23	23	78	0	0	0	23	19	19	24	-1	0	0	78	19	26	52					
1142+50.00	23	23	78	0	0	0	23	20	20	26	-3	0	0	78	19	26	52					
1143+00.00	22	22	78	0	0	0	22	22	22	28	-6	0	0	78	19	26	52					
1143+50.00	22	22	78	0	0	0	22	23	23	30	-9	0	0	78	19	26	52					
1144+00.00	22	22	78	0	0	0	22	25	25	33	-11	0	0	78	19	26	52					
1144+50.00	22	22	78	0	0	0	22	28	28	36	-15	0	0	78	19	26	52					
1145+00.00	21	21	78	0	0	0	21	27	27	36	-15	0	0	78	19	26	51					
1145+50.00	21	21	78	0	0	0	21	25	25	32	-11	0	0	78	19	26	51					
1146+00.00	21	21	78	0	0	0	21	22	22	29	-8	0	0	78	19	26	51					
1146+50.00	23	23	78	0	0	0	23	21	21	27	-4	0	0	78	19	26	51					
1147+00.00	37	37	78	0	0	0	37	12	12	15	21	0	0	78	19	26	52					
1147+50.00	36	36	78	0	0	0	36	26	26	34	2	0	0	78	19	26	52					
1148+00.00	51	51	78	0	0	0	51	28	28	37	14	0	0	78	19	26	52					
1148+50.00	88	88	78	0	0	0	88	4	4	6	83	0	0	78	19	26	51					
1149+00.00	99	99	78	0	0	0	99	0	0	0	99	0	0	78	19	26	52					
1149+50.00	101	101	78	0	0	0	101	0	0	0	101	0	0	78	19	26	51					
1150+00.00	99	99	78	0	0	0	99	0	0	0	99	0	0	78	19	26	51					
1150+50.00	99	99	78	0	0	0	99	0	0	0	98	0	0	78	19	26	51					
1151+00.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	51					
1151+50.00	103	103	78	0	0	0	103	0	0	0	103	0	0	78	19	26	51					
1152+00.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	51					
1152+50.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	51					
1153+00.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	51					
1153+50.00	99	99	78	0	0	0	99	0	0	0	99	0	0	78	19	26	51					
1154+00.00	97	97	78	0	0	0	97	0	0	1	96	0	0	78	19	26	52					
1154+50.00	58	58	78	0	0	0	58	13	13	16	42	0	0	78	19	26	52					
1155+00.00	38	38	78	0	0	0	38	18	18	23	15	0	0	78	19	26	52					
1155+50.00	75	75	78	0	0	0	75	6	6	7	68	0	0	78	19	26	52					
1156+00.00	96	96	78	0	0	0	96	0	0	1	95	0	0	78	19	26	52					
1156+50.00	96	96	78	0	0	0	96	0	0	0	95	0	0	78	19	26	52					
1157+00.00	100	100	78	0	0	0	100	0	0	0	100	0	0	78	19	26	52					
1157+50.00	104	104	78	0	0	0	104	0	0	0	104	0	0	78	19	26	52					
1158+00.00	101	101	78	0	0	0	101	0	0	0	101	0	0	78	19	26	51					
1158+50.00	97	97	78	0	0	0	97	0	0	0	97	0	0	78	19	26	52					
1159+00.00	99	99	78	0	0	0	99	0	0	0	100	0	0	78	19	26	52					
1159+50.00	101	101	78	0	0	0	101	0	0	0	101	0	0	78	19	26	52					
1160+00.00	99	99	78	0	0	0	99	0	0	0	99	0	0	78	19	26	52					
1160+50.00	98	98	78	0	0	0	98	0	0	0	98	0	0	78	19	26	52					
1161+00.00	97	97	78	0	0	0	97	0	0	0	97	0	0	78	19	26	52					
1161+50.00	96	96	78	0	0	0	96	0	0	0	96	0	0	78	19	26	52					
1162+00.00	92	92	78	0	0	0	92	3	3	4	88	0	0	78	19	26	52					
1162+50.00	56	56	78	0	0	0	56	11	11	15	41	0	0	78	19	26	52					
1163+00.00	62	62	78	0	0	0	62	8	8	11	51	0	0	78	19	26	52					
1163+50.00	100	100	78	0	0	0	100	0	0	0	100	0	0	78	19	26	52					
1164+00.00	99	99	78	0	0	0	99	0	0	0	99	0	0	78	19	26	52					
1164+50.00	98	98	78	0	0	0	98	0	0	0	98	0	0	78	19	26	52					
1165+00.00	98	98	78	0	0	0	98	0	0	0	97	0	0	78	19	26	52					
1165+50.00	96	96	78	0	0	0	96	1	1	1	96	0	0	78	19	26	52					
1166+00.00	97	97	78	0	0	0	97	0	0	1	96	0	0	78	19	26	52					
1166+50.00	99	99	78	0	0	0	99	0	0	0	99	0	0	78	19	26	52					
1167+00.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	52					
1167+50.00	103	103	78	0	0	0	103	0	0	0	103	0	0	78	19	26	52					
1168+00.00	63	63	78	0	0	0	63	29	29	38	25	0	0	78	19	26	52					
1168+50.00	60	60	78	0	0	0	60	31	31	41	20	0	0	78	19	26	52					
1169+00.00	99	99	78	0	0	0	99	2	2	3	96	0	0	78	19	26	52					
1169+50.00	101	101	78	0	0	0	101	0	0	0	101	0	0	78	19	26	52					
1170+00.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	52					
1170+50.00	102	102	78	0	0	0	102	0	0	0	102	0	0	78	19	26	52					
1171+00.00	96	96	78	0	0	0	96	1	1	1	95	0	0	78	19	26	52					
1171+50.00	90	90	78	0	0	0	90	2	2	2	89	0	0	78	19	26	52					
1172+00.00	55	55	78	0	0	0	55	12	12	16	39	0	0	78	19	26	52					
1172+50.00	22	22	78	0	0	0	22	20	20	26	-4	0	0	78	19	26	52					
1173+00.00	26	26	78	0	0	0	26	11	11	14	13	0	0	78	19	26	52					
1173+50.00	29	29	78	0	0	0	29	8	8	10	20	0	0	78	19	26	52					
1174+00.00	26	26	78	0	0	0	26	10	10	14	13	0	0	78	19	26	52					
1174+50.00	24	24	78	0	0	0	24	13	13	17	8	0	0	78	19	26	52					
1175+00.00	23	23	78	0	0	0	23	14	14	18	5	0	0	78	19	26	52					
1175+50.00																						
Subtotals:	4,935	4,935	5,305	0	0	0	4,935	536	536	700	4,237	0	0	5,305	1,278	1,795	3,510					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1175+50.00	23	23	78	0	0	0	23	13	13	17	6	0	0	78	19	26	52					
1176+00.00	24	24	78	0	0	0	24	12	12	15	9	0	0	78	19	26	52					
1176+50.00	24	24	78	0	0	0	24	11	11	15	9	0	0	78	19	26	52					
1177+00.00	24	24	78	0	0	0	24	14	14	18	6	0	0	78	19	26	52					
1177+50.00	23	23	78	0	0	0	23	19	19	25	-2	0	0	78	19	26	52					
1178+00.00	23	23	78	0	0	0	23	18	18	23	0	0	0	78	19	26	52					
1178+50.00	24	24	78	0	0	0	24	12	12	16	9	0	0	78	19	26	52					
1179+00.00	25	25	78	0	0	0	25	12	12	16	9	0	0	78	19	26	52					
1179+50.00	25	25	78	0	0	0	25	15	15	19	6	0	0	78	19	26	52					
1180+00.00	26	26	78	0	0	0	26	14	14	19	7	0	0	78	19	26	52					
1180+50.00	27	27	78	0	0	0	27	14	14	18	9	0	0	78	19	26	52					
1181+00.00	27	27	78	0	0	0	27	13	13	17	10	0	0	78	19	26	52					
1181+50.00	28	28	78	0	0	0	28	13	13	17	11	0	0	78	19	26	52					
1182+00.00	28	28	78	0	0	0	28	14	14	18	10	0	0	78	19	26	52					
1182+50.00	28	28	78	0	0	0	28	16	16	21	7	0	0	78	19	26	52					
1183+00.00	28	28	78	0	0	0	28	19	19	25	3	0	0	78	19	26	52					
1183+50.00	27	27	78	0	0	0	27	19	19	25	2	0	0	78	19	26	52					
1184+00.00	26	26	78	0	0	0	26	19	19	25	1	0	0	78	19	26	52					
1184+50.00	26	26	78	0	0	0	26	19	19	25	0	0	0	78	19	26	52					
1185+00.00	26	26	78	0	0	0	26	21	21	27	-1	0	0	78	19	26	52					
1185+50.00	26	26	78	0	0	0	26	20	20	27	-1	0	0	78	19	26	52					
1186+00.00	25	25	78	0	0	0	25	17	17	23	3	0	0	78	19	26	52					
1186+50.00	26	26	78	0	0	0	26	16	16	21	5	0	0	78	19	26	51					
1187+00.00	27	27	78	0	0	0	27	17	17	23	5	0	0	78	19	26	51					
1187+50.00	25	25	78	0	0	0	25	21	21	27	-2	0	0	78	19	26	51					
1188+00.00	24	24	78	0	0	0	24	23	23	31	-7	0	0	78	19	26	51					
1188+50.00	24	24	78	0	0	0	24	24	24	31	-7	0	0	78	19	26	51					
1189+00.00	24	24	78	0	0	0	24	25	25	33	-9	0	0	78	19	26	51					
1189+50.00	22	22	78	0	0	0	22	34	34	44	-22	0	0	78	19	26	51					
1190+00.00	23	23	78	0	0	0	23	35	35	46	-23	0	0	78	19	26	51					
1190+50.00	24	24	78	0	0	0	24	27	27	36	-11	0	0	78	19	26	51					
1191+00.00	23	23	78	0	0	0	23	25	25	33	-9	0	0	78	19	26	51					
1191+50.00	23	23	78	0	0	0	23	25	25	32	-9	0	0	78	19	26	51					
1192+00.00	24	24	78	0	0	0	24	23	23	31	-6	0	0	78	19	26	51					
1192+50.00	25	25	78	0	0	0	25	24	24	31	-7	0	0	78	19	26	51					
1193+00.00	25	25	78	0	0	0	25	24	24	31	-6	0	0	78	19	26	51					
1193+50.00	25	25	77	0	0	0	25	23	23	30	-6	0	0	77	19	26	51					
1194+00.00	23	23	77	0	0	0	23	44	44	57	-34	0	0	77	19	26	51					
1194+50.00	22	22	77	0	0	0	22	41	41	53	-31	0	0	77	19	26	51					
1195+00.00	24	24	77	0	0	0	24	19	19	24	0	0	0	77	19	26	51					
1195+50.00	24	24	77	0	0	0	24	18	18	23	1	0	0	77	19	26	51					
1196+00.00	25	25	77	0	0	0	25	18	18	24	1	0	0	77	19	26	51					
1196+50.00	24	24	77	0	0	0	24	18	18	24	1	0	0	77	19	26	51					
1197+00.00	23	23	78	0	0	0	23	21	21	27	-4	0	0	78	19	26	51					
1197+50.00	22	22	78	0	0	0	22	22	22	29	-7	0	0	78	19	26	51					
1198+00.00	23	23	78	0	0	0	23	23	23	30	-7	0	0	78	19	26	52					
1198+50.00	24	24	78	0	0	0	24	23	23	30	-6	0	0	78	19	26	52					
1199+00.00	23	23	78	0	0	0	23	21	21	28	-4	0	0	78	19	26	51					
1199+50.00	25	25	78	0	0	0	25	22	22	29	-5	0	0	78	19	26	51					
1200+00.00	24	24	78	0	0	0	24	22	22	29	-5	0	0	78	19	26	52					
1200+50.00	23	23	78	0	0	0	23	22	22	29	-6	0	0	78	19	26	52					
1201+00.00	23	23	78	0	0	0	23	35	35	46	-22	0	0	78	19	26	52					
1201+50.00	24	24	78	0	0	0	24	29	29	38	-14	0	0	78	19	26	52					
1202+00.00	25	25	78	0	0	0	25	12	12	15	9	0	0	78	19	26	52					
1202+50.00	25	25	78	0	0	0	25	14	14	18	7	0	0	78	19	26	52					
1203+00.00	24	24	78	0	0	0	24	17	17	23	2	0	0	78	19	26	52					
1203+50.00	24	24	78	0	0	0	24	23	23	30	-6	0	0	78	19	26	52					
1204+00.00	23	23	78	0	0	0	23	24	24	31	-8	0	0	78	19	26	52					
1204+50.00	24	24	78	0	0	0	24	19	19	25	-1	0	0	78	19	26	52					
1205+00.00	23	23	78	0	0	0	23	19	19	25	-2	0	0	78	19	26	52					
1205+50.00	22	22	78	0	0	0	22	24	24	31	-10	0	0	78	19	26	52					
1206+00.00	22	22	78	0	0	0	22	25	25	32	-11	0	0	78	19	26	52					
1206+50.00	22	22	78	0	0	0	22	23	23	30	-8	0	0	78	19	26	52					
1207+00.00	22	22	78	0	0	0	22	22	22	28	-6	0	0	78	19	26	52					
1207+50.00	21	21	78	0	0	0	21	19	19	25	-4	0	0	78	19	26	52					
1208+00.00	22	22	78	0	0	0	22	18	18	24	-1	0	0	78	19	26	52					
1208+50.00	24	24	78	0	0	0	24	13	13	18	7	0	0	78	19	26	52					
1209+00.00	25	25	78	0	0	0	25	14	14	19	7	0	0	78	19	26	52					
1209+50.00																						
Subtotals:	1,652	1,652	5,298	0	0	0	1,652	1,398	1,398	1,821	-170	0	0	5,298	1,278	1,795	3,503					

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

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1209+50.00																						
1210+00.00	25	25	78	0	0	0	25	15	15	19	6	0	0	78	19	26	52					
1210+50.00	24	24	78	0	0	0	24	16	16	21	3	0	0	78	19	26	52					
1211+00.00	21	21	78	0	0	0	21	20	20	27	-5	0	0	78	19	26	52					
1211+50.00	22	22	78	0	0	0	22	18	18	23	-1	0	0	78	19	26	52					
1212+00.00	23	23	78	0	0	0	23	15	15	20	3	0	0	78	19	26	51					
1212+50.00	23	23	78	0	0	0	23	15	15	20	3	0	0	78	19	26	51					
1213+00.00	23	23	78	0	0	0	23	16	16	22	2	0	0	78	19	26	51					
1213+50.00	23	23	78	0	0	0	23	19	19	25	-2	0	0	78	19	26	51					
1214+00.00	23	23	78	0	0	0	23	20	20	26	-3	0	0	78	19	26	51					
1214+50.00	24	24	78	0	0	0	24	22	22	29	-5	0	0	78	19	26	52					
1215+00.00	24	24	78	0	0	0	24	26	26	34	-11	0	0	78	19	26	52					
1215+50.00	23	23	78	0	0	0	23	26	26	34	-11	0	0	78	19	26	52					
1216+00.00	22	22	78	0	0	0	22	26	26	34	-12	0	0	78	19	26	52					
1216+50.00	22	22	78	0	0	0	22	29	29	37	-15	0	0	78	19	26	52					
1217+00.00	22	22	78	0	0	0	22	30	30	39	-18	0	0	78	19	26	52					
1217+50.00	22	22	78	0	0	0	22	31	31	41	-19	0	0	78	19	26	52					
1218+00.00	23	23	78	0	0	0	23	32	32	41	-18	0	0	78	19	26	52					
1218+50.00	23	23	78	0	0	0	23	30	30	39	-16	0	0	78	19	26	52					
1219+00.00	23	23	78	0	0	0	23	28	28	36	-13	0	0	78	19	26	52					
1219+50.00	23	23	78	0	0	0	23	26	26	34	-11	0	0	78	19	26	52					
1220+00.00	22	22	78	0	0	0	22	24	24	32	-9	0	0	78	19	26	52					
1220+50.00	22	22	78	0	0	0	22	23	23	30	-8	0	0	78	19	26	52					
1221+00.00	22	22	78	0	0	0	22	23	23	30	-8	0	0	78	19	26	52					
1221+50.00	23	23	78	0	0	0	23	15	15	20	3	0	0	78	19	26	52					
1222+00.00	24	24	78	0	0	0	24	14	14	18	6	0	0	78	19	26	52					
1222+50.00	23	23	78	0	0	0	23	18	18	24	-1	0	0	78	19	26	52					
1223+00.00	23	23	78	0	0	0	23	19	19	25	-2	0	0	78	19	26	52					
1223+50.00	23	23	78	0	0	0	23	22	22	29	-6	0	0	78	19	26	51					
1224+00.00	22	22	78	0	0	0	22	22	22	29	-7	0	0	78	19	26	52					
1224+50.00	22	22	78	0	0	0	22	22	22	29	-7	0	0	78	19	26	52					
1225+00.00	22	22	78	0	0	0	22	21	21	28	-6	0	0	78	19	26	52					
1225+50.00	22	22	78	0	0	0	22	22	22	29	-7	0	0	78	19	26	52					
1226+00.00	23	23	78	0	0	0	23	26	26	34	-11	0	0	78	19	26	52					
1226+50.00	23	23	78	0	0	0	23	29	29	38	-15	0	0	78	19	26	52					
1227+00.00	22	22	78	0	0	0	22	27	27	35	-13	0	0	78	19	26	51					
1227+50.00	22	22	78	0	0	0	22	24	24	32	-10	0	0	78	19	26	51					
1228+00.00	23	23	78	0	0	0	23	23	23	30	-7	0	0	78	19	26	51					
1228+50.00	23	23	78	0	0	0	23	23	23	30	-7	0	0	78	19	26	52					
1229+00.00	23	23	78	0	0	0	23	26	26	34	-11	0	0	78	19	26	52					
1229+50.00	23	23	78	0	0	0	23	28	28	37	-14	0	0	78	19	26	52					
1230+00.00	23	23	78	0	0	0	23	28	28	37	-14	0	0	78	19	26	52					
1230+50.00	21	21	78	0	0	0	21	26	26	34	-13	0	0	78	19	26	52					
1231+00.00	19	19	78	0	0	0	19	25	25	33	-14	0	0	78	19	26	52					
1231+50.00	17	17	78	0	0	0	17	25	25	32	-16	0	0	78	19	26	52					
1232+00.00	16	16	78	0	0	0	16	26	26	34	-19	0	0	78	19	26	52					
1232+50.00	16	16	78	0	0	0	16	27	27	35	-19	0	0	78	19	26	52					
1233+00.00	18	18	78	0	0	0	18	31	31	40	-22	0	0	78	19	26	52					
1233+50.00	19	19	78	0	0	0	19	30	30	39	-20	0	0	78	19	26	52					
1234+00.00	20	20	78	0	0	0	20	24	24	31	-11	0	0	78	19	26	52					
1234+50.00	20	20	78	0	0	0	20	25	25	32	-12	0	0	78	19	26	52					
1235+00.00	20	20	78	0	0	0	20	24	24	31	-12	0	0	78	19	26	52					
1235+50.00	21	21	78	0	0	0	21	23	23	30	-9	0	0	78	19	26	52					
1236+00.00	23	23	78	0	0	0	23	25	25	33	-10	0	0	78	19	26	52					
1236+50.00	23	23	78	0	0	0	23	26	26	34	-11	0	0	78	19	26	52					
1237+00.00	21	21	78	0	0	0	21	28	28	37	-16	0	0	78	19	26	52					
1237+50.00	16	16	78	0	0	0	16	31	31	41	-24	0	0	78	19	26	52					
1238+00.00	14	14	78	0	0	0	14	34	34	44	-30	0	0	78	19	26	51					
1238+50.00	15	15	78	0	0	0	15	33	33	43	-28	0	0	78	19	26	51					
1239+00.00	17	17	78	0	0	0	17	31	31	40	-24	0	0	78	19	26	51					
1239+50.00	17	17	78	0	0	0	17	30	30	39	-22	0	0	78	19	26	51					
1240+00.00	17	17	78	0	0	0	17	35	35	46	-29	0	0	78	19	26	51					
1240+50.00	16	16	78	0	0	0	16	41	41	53	-37	0	0	78	19	26	52					
1241+00.00	17	17	78	0	0	0	17	38	38	50	-33	0	0	78	19	26	52					
1241+50.00	18	18	78	0	0	0	18	37	37	49	-31	0	0	78	19	26	52					
1242+00.00	18	18	78	0	0	0	18	36	36	47	-29	0	0	78	19	26	52					
1242+50.00	17	17	78	0	0	0	17	33	33	43	-26	0	0	78	19	26	52					
1243+00.00	18	18	78	0	0	0	18	31	31	40	-22	0	0	78	19	26	52					
1243+50.00	16	16	78	0	0	0	16	32	32	42	-25	0	0	78	19	26	52					
Subtotals:	1,418	1,418	5,299	0	0	0	1,418	1,750	1,750	2,278	-863	0	0	5,299	1,278	1,795	3,504					

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

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil							
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1243+50.00																						
1244+00.00	14	14	78	0	0	0	14	33	33	43	-29	0	0	78	19	26	52					
1244+50.00	15	15	78	0	0	0	15	30	30	39	-25	0	0	78	19	26	52					
1245+00.00	16	16	78	0	0	0	16	28	28	36	-21	0	0	78	19	26	52					
1245+50.00	16	16	78	0	0	0	16	28	28	36	-21	0	0	78	19	26	52					
1246+00.00	16	16	78	0	0	0	16	24	24	32	-16	0	0	78	19	26	52					
1246+50.00	17	17	78	0	0	0	17	22	22	29	-12	0	0	78	19	26	52					
1247+00.00	17	17	78	0	0	0	17	23	23	31	-14	0	0	78	19	26	52					
1247+50.00	16	16	78	0	0	0	16	23	23	30	-14	0	0	78	19	26	52					
1248+00.00	17	17	78	0	0	0	17	25	25	32	-15	0	0	78	19	26	52					
1248+50.00	17	17	78	0	0	0	17	28	28	36	-19	0	0	78	19	26	52					
1249+00.00	18	18	78	0	0	0	18	26	26	34	-17	0	0	78	19	26	52					
1249+50.00	18	18	78	0	0	0	18	25	25	32	-14	0	0	78	19	26	52					
1250+00.00	17	17	78	0	0	0	17	25	25	32	-15	0	0	78	19	26	52					
1250+50.00	17	17	78	0	0	0	17	23	23	30	-12	0	0	78	19	26	52					
1251+00.00	19	19	78	0	0	0	19	19	19	25	-6	0	0	78	19	26	52					
1251+50.00	26	26	78	0	0	0	26	11	11	15	12	0	0	78	19	26	52					
1252+00.00	33	33	78	0	0	0	33	5	5	7	26	0	0	78	19	26	52					
1252+50.00	29	29	78	0	0	0	29	8	8	11	18	0	0	78	19	26	52					
1253+00.00	23	23	78	0	0	0	23	13	13	17	6	0	0	78	19	26	52					
1253+50.00	21	21	78	0	0	0	21	18	18	24	-3	0	0	78	19	26	52					
1254+00.00	20	20	78	0	0	0	20	19	19	25	-5	0	0	78	19	26	52					
1254+50.00	24	24	78	0	0	0	24	17	17	23	1	0	0	78	19	26	52					
1255+00.00	24	24	78	0	0	0	24	19	19	25	-2	0	0	78	19	26	52					
1255+50.00	20	20	78	0	0	0	20	25	25	32	-12	0	0	78	19	26	52					
1256+00.00	20	20	78	0	0	0	20	30	30	39	-19	0	0	78	19	26	52					
1256+50.00	19	19	78	0	0	0	19	33	33	43	-24	0	0	78	19	26	52					
1257+00.00	19	19	78	0	0	0	19	38	38	50	-31	0	0	78	19	26	52					
1257+50.00	17	17	78	0	0	0	17	43	43	56	-39	0	0	78	19	26	52					
1258+00.00	30	30	78	0	0	0	30	26	26	33	-4	0	0	78	19	26	52					
1258+50.00	37	37	76	0	0	0	37	15	15	20	18	0	0	76	19	26	50					
1259+00.00	32	32	73	0	0	0	32	23	23	30	2	0	0	73	19	26	47					
1259+50.00	33	33	72	0	0	0	33	24	24	31	2	0	0	72	19	26	45					
1260+00.00	32	32	71	0	0	0	32	25	25	33	-1	0	0	71	19	26	44					
1260+50.00	32	32	70	0	0	0	32	25	25	32	0	0	0	70	19	26	43					
1261+00.00	33	33	69	0	0	0	33	25	25	33	0	0	0	69	19	26	42					
1261+50.00	35	35	68	0	0	0	35	26	26	34	1	0	0	68	19	26	41					
1262+00.00	36	36	66	0	0	0	36	24	24	31	5	0	0	66	19	26	40					
1262+50.00	36	36	65	0	0	0	36	24	24	32	4	0	0	65	19	26	39					
1263+00.00	38	38	64	0	0	0	38	23	23	30	7	0	0	64	19	26	37					
1263+50.00	41	41	62	0	0	0	41	22	22	29	13	0	0	62	19	26	36					
1264+00.00	51	51	61	0	0	0	51	14	14	18	33	0	0	61	19	26	34					
1264+50.00	61	61	59	0	0	0	61	3	3	4	57	0	0	59	19	26	33					
1265+00.00	63	63	58	0	0	0	63	1	1	2	62	0	0	58	9	13	45					
1265+50.00	63	63	29	0	0	0	63	0	0	0	63	0	0	29	0	0	29					
1266+00.00	61	61	0	0	0	0	61	0	0	0	61	0	0	0	0	0	0					
1266+11.75	14	14	0	0	0	0	14	0	0	0	14	0	0	0	0	0	0					
I-35SB																						
Totals:	12,790	12,790	28,231	0	0	0	12,790	7,856	7,856	10,230	2,555	0	0	28,231	6,825	9,584	18,648					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil							
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
I-35NB																						
1082+80.00	105	40	59	0	65	0	40	75	75	98	-58	0	0	59	22	30	29					
1083+00.00	239	174	187	0	65	0	174	159	159	207	-33	0	0	187	52	73	114					
1083+50.00	235	171	183	0	65	0	171	150	150	195	-24	0	0	183	50	70	112					
1084+00.00	225	160	178	0	65	0	160	145	145	188	-28	0	0	178	48	67	111					
1084+50.00	214	149	173	0	65	0	149	135	135	176	-27	0	0	173	45	63	110					
1085+00.00	205	132	171	0	65	9	140	139	139	180	-40	0	0	171	43	61	110					
1085+50.00	208	124	172	0	65	19	143	136	136	177	-34	0	0	172	44	62	110					
1086+00.00	205	130	170	0	65	10	140	127	127	166	-26	0	0	170	44	61	109					
1086+50.00	194	129	167	0	65	0	129	126	126	164	-35	0	0	167	42	59	108					
1087+00.00	185	120	168	0	65	0	120	133	133	173	-53	0	0	168	42	59	109					
1087+50.00	175	110	167	0	65	0	110	147	147	191	-82	0	0	167	42	58	109					
1088+00.00	177	103	175	0	65	9	112	144	144	187	-76	0	0	175	46	64	111					
1088+50.00	226	153	200	0	65	9	162	144	144	187	-26	0	0	200	59	82	118					
1089+00.00	300	235	224	0	65	0	235	230	230	300	-64	0	0	224	71	99	124					
1089+50.00	313	248	221	0	65	0	248	237	237	308	-60	0	0	221	70	97	124					
1090+00.00	283	218	201	0	65	0	218	140	140	182	36	0	0	201	59	83	118					
1090+50.00	266	201	184	0	65	0	201	133	133	173	28	0	0	184	51	71	113					
1091+00.00	296	232	182	0	65	0	232	156	156	202	29	0	0	182	50	70	112					
1091+50.00	388	323	196	0	65	0	323	131	131	171	152	0	0	196	57	79	116					
1092+00.00	490	425	211	0	65	0	425	106	106	138	288	0	0	211	65	91	121					
1092+50.00	587	523	226	0	65	0	523	101	101	132	391	0	0	226	72	101	125					
1093+00.00	666	601	237	0	65	0	601	100	100	130	472	0	0	237	78	109	128					
1093+50.00	731	666	249	0	65	0	666	98	98	128	539	0	0	249	84	117	132					
1094+00.00	747	682	255	0	65	0	682	97	97	126	556	0	0	255	86	121	134					
1094+50.00	731	667	252	0	65	0	667	96	96	125	542	0	0	252	85	119	133					
1095+00.00	735	671	248	0	65	0	671	92	92	120	551	0	0	248	83	117	131					
1095+50.00	708	643	243	0	65	0	643	91	91	118	525	0	0	243	80	113	130					
1096+00.00	667	602	239	0	65	0	602	90	90	118	484	0	0	239	79	110	129					
1096+50.00	636	571	239	0	65	0	571	92	92	119	452	0	0	239	79	110	129					
1097+00.00	595	530	236	0	65	0	530	98	98	127	403	0	0	236	77	108	128					
1097+50.00	525	460	227	0	65	0	460	99	99	128	332	0	0	227	72	101	126					
1098+00.00	446	382	216	0	65	0	382	98	98	127	255	0	0	216	67	94	122					
1098+50.00	357	292	200	0	65	0	292	101	101	132	160	0	0	200	59	82	117					
1099+00.00	264	199	180	0	65	0	199	108	108	141	59	0	0	180	49	69	112					
1099+50.00	220	155	173	0	65	0	155	116	116	151	4	0	0	173	45	63	109					
1100+00.00	200	135	172	0	65	0	135	141	141	183	-48	0	0	172	45	63	109					
1100+50.00	200	135	170	0	65	0	135	141	141	183	-48	0	0	170	44	62	109					
1101+00.00	213	148	169	0	65	0	148	113	113	147	2	0	0	169	44	61	109					
1101+50.00	217	153	170	0	65	0	153	97	97	127	26	0	0	170	43	61	109					
1102+00.00	260	195	174	0	65	0	195	69	69	89	106	0	0	174	45	64	110					
1102+50.00	308	243	186	0	65	0	243	55	55	71	172	0	0	186	52	72	114					
1103+00.00	325	261	198	0	65	0	261	74	74	96	164	0	0	198	58	81	117					
1103+50.00	350	286	203	0	65	0	286	81	81	105	181	0	0	203	60	84	118					
1104+00.00	353	288	202	0	65	0	288	77	77	101	188	0	0	202	60	84	118					
1104+50.00	363	298	204	0	65	0	298	79	79	103	196	0	0	204	61	85	119					
1105+00.00	379	314	209	0	65	0	314	80	80	104	210	0	0	209	63	89	120					
1105+50.00	407	230	210	112	65	0	342	86	86	112	230	0	0	210	64	89	120					
1106+00.00	437	142	208	231	65	0	372	94	94	123	250	0	0	208	63	89	120					
1106+50.00	409	141	207	204	65	0	344	105	105	137	207	0	0	207	62	87	119					
1107+00.00	350	149	200	137	65	0	286	124	124	161	125	0	0	200	59	82	117					
1107+50.00	289	146	190	79	65	0	224	136	136	176	48	0	0	190	54	76	115					
1108+00.00	255	163	185	27	65	0	190	144	144	187	3	0	0	185	51	72	113					
1108+50.00	254	189	183	0	65	0	189	153	153	200	-11	0	0	183	51	71	112					
1109+00.00	259	194	182	0	65	0	194	150	150	195	-1	0	0	182	50	70	112					
1109+50.00	248	183	177	0	65	0	183	142	142	184	-1	0	0	177	47	66	111					
1110+00.00	238	173	172	0	65	0	173	141	141	183	-10	0	0	172	45	63	109					
1110+50.00	238	173	173	0	65	0	173	144	144	188	-15	0	0	173	45	63	110					
1111+00.00	247	183	176	0	65	0	183	144	144	187	-5	0	0	176	47	65	111					
1111+50.00	259	194	179	0	65	0	194	138	138	179	16	0	0	179	48	68	111					
1112+00.00	262	197	181	0	65	0	197	136	136	177	20	0	0	181	49	69	112					
1112+50.00	260	195	187	0	65	0	195	159	159	207	-12	0	0	187	52	72	114					
1113+00.00	262	197	195	0	65	0	197	195	195	253	-56	0	0	195	56	78	117					
1113+50.00	271	206	202	0	65	0	206	213	213	277	-70	0	0	202	59	83	119					
1114+00.00	284	219	209	0	65	0	219	224	224	291	-72	0	0	209	63	89	121					
1114+50.00	291	226	220	0	65	0	226	268	268	349	-123	0	0	220	69	96	124					
1115+00.00	261	196	219	0	65	0	196	298	298	387	-191	0	0	219	68	96	124					
1115+50.00	259	194	219	0	65	0	194	305	305	396	-202	0	0	219	68	95	124					
1116+00.00																						
Subtotals:	22,749	17,564	13,132	789	4,342	56	18,408	8,872	8,872	11,537	6,871	0	0	13,132	3,839	5,378	7,755					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1116+00.00	287	222	226	0	65	0	222	311	311	405	-183	0	0	226	71	100	126					
1116+50.00	286	221	226	0	65	0	221	309	309	402	-180	0	0	226	72	100	126					
1117+00.00	312	247	230	0	65	0	247	327	327	425	-178	0	0	230	74	103	127					
1117+50.00	325	260	237	0	65	0	260	324	324	421	-161	0	0	237	77	108	129					
1118+00.00	308	243	231	0	65	0	243	279	279	362	-119	0	0	231	74	104	127					
1118+50.00	292	228	218	0	65	0	228	248	248	322	-95	0	0	218	68	95	123					
1119+00.00	279	214	210	0	65	0	214	234	234	304	-90	0	0	210	64	89	121					
1119+50.00	261	196	203	0	65	0	196	207	207	269	-73	0	0	203	60	84	118					
1120+00.00	260	196	196	0	65	0	196	189	189	246	-50	0	0	196	57	80	116					
1120+50.00	290	225	193	0	65	0	225	180	180	234	-8	0	0	193	55	78	116					
1121+00.00	300	236	191	0	65	0	236	167	167	217	18	0	0	191	54	76	115					
1121+50.00	292	227	185	0	65	0	227	155	155	201	26	0	0	185	51	72	113					
1122+00.00	286	221	180	0	65	0	221	141	141	183	38	0	0	180	49	69	112					
1122+50.00	284	219	176	0	65	0	219	124	124	162	58	0	0	176	47	65	110					
1123+00.00	294	229	175	0	65	0	229	110	110	143	86	0	0	175	46	65	110					
1123+50.00	317	252	180	0	65	0	252	100	100	130	122	0	0	180	49	68	112					
1124+00.00	342	277	182	0	65	0	277	94	94	122	155	0	0	182	50	70	112					
1124+50.00	366	301	185	0	65	0	301	88	88	115	187	0	0	185	51	72	113					
1125+00.00	383	318	189	0	65	0	318	85	85	111	208	0	0	189	53	74	114					
1125+50.00	385	320	190	0	65	0	320	81	81	106	214	0	0	190	54	75	115					
1126+00.00	394	329	191	0	65	0	329	65	65	84	245	0	0	191	54	76	115					
1126+50.00	405	340	191	0	65	0	340	56	56	73	268	0	0	191	54	76	115					
1127+00.00	402	338	190	0	65	0	338	62	62	81	257	0	0	190	54	75	115					
1127+50.00	395	331	189	0	65	0	331	62	62	81	250	0	0	189	53	75	114					
1128+00.00	363	298	185	0	65	0	298	66	66	86	212	0	0	185	51	72	113					
1128+50.00	309	244	178	0	65	0	244	82	82	107	137	0	0	178	48	67	111					
1129+00.00	261	196	169	0	65	0	196	93	93	121	75	0	0	169	44	61	109					
1129+50.00	242	177	168	0	65	0	177	113	113	147	30	0	0	168	43	60	108					
1130+00.00	246	181	170	0	65	0	181	130	130	169	12	0	0	170	44	62	109					
1130+50.00	247	182	167	0	65	0	182	126	126	164	19	0	0	167	42	59	108					
1131+00.00	250	185	166	0	65	0	185	116	116	150	35	0	0	166	42	59	107					
1131+50.00	286	221	171	0	65	0	221	101	101	132	89	0	0	171	45	63	109					
1132+00.00	362	297	183	0	65	0	297	91	91	119	179	0	0	183	51	71	112					
1132+50.00	452	387	198	0	65	0	387	86	86	112	275	0	0	198	58	81	117					
1133+00.00	529	464	210	0	65	0	464	74	74	96	368	0	0	210	64	89	121					
1133+50.00	603	538	221	0	65	0	538	76	76	99	439	0	0	221	69	97	124					
1134+00.00	671	381	234	0	65	225	606	91	91	118	488	0	0	234	76	106	128					
1134+50.00	712	152	245	0	65	495	647	92	92	120	527	0	0	245	81	114	131					
1135+00.00	820	110	261	0	65	645	755	90	90	118	637	0	0	261	89	125	136					
1135+50.00	972	105	279	0	65	802	907	91	91	118	789	0	0	279	98	138	141					
1136+00.00	626	128	207	0	65	433	561	94	94	123	438	0	0	207	58	81	126					
1136+50.00	214	135	128	0	65	14	149	92	92	120	30	0	0	128	18	25	102					
1137+00.00	206	127	126	0	65	15	142	82	82	107	35	0	0	126	22	30	96					
1137+50.00	304	98	185	0	65	142	240	75	75	98	142	0	0	185	51	72	114					
1138+00.00	431	64	244	0	65	303	367	66	66	86	281	0	0	244	80	113	131					
1138+50.00	493	55	239	0	65	373	428	61	61	79	349	0	0	239	78	109	130					
1139+00.00	553	76	235	0	65	413	489	71	71	92	397	0	0	235	76	106	129					
1139+50.00	669	135	242	0	65	470	604	83	83	107	497	0	0	242	80	111	131					
1140+00.00	689	362	244	0	65	262	624	82	82	107	517	0	0	244	81	113	131					
1140+50.00	498	433	224	0	65	0	433	91	91	119	315	0	0	224	71	99	125					
1141+00.00	334	270	212	0	65	0	270	178	178	231	38	0	0	212	65	91	122					
1141+50.00	289	224	220	0	65	0	224	316	316	411	-186	0	0	220	69	96	124					
1142+00.00	318	185	236	0	65	68	253	428	428	557	-303	0	0	236	77	107	128					
1142+50.00	288	148	249	0	65	75	223	568	568	738	-515	0	0	249	83	117	132					
1143+00.00	215	143	259	0	65	7	151	749	749	974	-823	0	0	259	89	124	135					
1143+50.00	216	151	271	0	65	0	151	812	812	1,056	-905	0	0	271	95	132	139					
1144+00.00	268	203	274	0	65	0	203	668	668	868	-665	0	0	274	96	134	139					
1144+50.00	360	295	262	0	65	0	295	444	444	578	-283	0	0	262	90	127	136					
1145+00.00	383	318	246	0	65	0	318	297	297	386	-68	0	0	246	82	115	131					
1145+50.00	331	266	232	0	65	1	267	243	243	316	-49	0	0	232	75	106	127					
1146+00.00	289	224	215	0	65	1	225	213	213	277	-53	0	0	215	67	94	121					
1146+50.00	230	165	191	0	65	0	165	178	178	231	-66	0	0	191	55	77	114					
1147+00.00	206	141	183	0	65	0	141	133	133	172	-32	0	0	183	51	71	112					
1147+50.00	209	144	196	0	65	0	144	102	102	133	11	0	0	196	34	47	148					
1148+00.00	221	104	210	0	67	50	154	85	85	110	44	0	0	210	14	20	191					
1148+50.00	263	87	223	0	72	105	191	53	53	69	122	0	0	223	14	20	203					
1149+00.00	288	101	237	0	77	109	210	35	35	46	165	0	0	237	14	20	217					
1149+50.00	301	94	259	0	83	123	217	27	27	35	183	0	0	259	14	20	239					
1150+00.00																						
Subtotals:	24,761	15,186	14,217	0	4,446	5,129	20,315	11,842	11,842	15,399	4,918	0	0	14,217	4,032	5,647	8,569					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil							
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1150+00.00	302	78	275	0	90	134	212	22	22	29	183	0	0	275	14	20	255					
1150+50.00	287	119	207	0	96	72	191	28	28	36	155	0	0	207	14	20	187					
1151+00.00	280	167	133	0	102	12	178	32	32	42	137	0	0	133	14	20	114					
1151+50.00	290	172	130	0	108	10	182	31	31	40	142	0	0	130	14	20	110					
1152+00.00	295	171	126	0	114	10	181	26	26	34	147	0	0	126	14	20	107					
1152+50.00	300	169	122	0	121	11	179	21	21	27	153	0	0	122	14	20	102					
1153+00.00	308	169	115	0	127	12	181	14	14	19	163	0	0	115	14	20	95					
1153+50.00	326	185	108	0	133	8	193	13	13	17	176	0	0	108	14	20	89					
1154+00.00	332	207	114	0	121	4	211	13	13	17	194	0	0	114	14	20	94					
1154+50.00	256	169	114	0	85	2	171	38	38	49	121	0	0	114	14	20	94					
1155+00.00	195	131	106	0	65	0	131	51	51	66	64	0	0	106	14	20	87					
1155+50.00	223	158	105	0	65	0	158	25	25	33	126	0	0	105	14	20	86					
1156+00.00	240	175	104	0	65	0	175	10	10	14	162	0	0	104	14	20	84					
1156+50.00	234	169	103	0	65	0	169	10	10	13	157	0	0	103	14	20	83					
1157+00.00	233	169	102	0	65	0	169	9	9	12	157	0	0	102	14	20	82					
1157+50.00	376	311	147	0	65	0	311	5	5	6	305	0	0	147	35	49	98					
1158+00.00	410	345	184	0	65	0	345	10	10	14	331	0	0	184	51	72	113					
1158+50.00	244	179	164	0	65	0	179	56	56	72	107	0	0	164	41	57	106					
1159+00.00	184	120	155	0	65	0	120	98	98	127	-8	0	0	155	36	51	104					
1159+50.00	188	123	160	0	65	0	123	110	110	144	-21	0	0	160	39	54	106					
1160+00.00	186	121	170	0	65	0	121	137	137	178	-57	0	0	170	44	61	108					
1160+50.00	181	116	182	0	65	0	116	197	197	256	-140	0	0	182	50	70	112					
1161+00.00	186	121	193	0	65	0	121	246	246	320	-199	0	0	193	55	78	115					
1161+50.00	201	136	199	0	65	0	136	241	241	313	-177	0	0	199	58	82	117					
1162+00.00	213	149	211	0	65	0	149	249	249	324	-175	0	0	211	65	91	121					
1162+50.00	224	160	224	0	65	0	160	246	246	320	-161	0	0	224	71	99	125					
1163+00.00	336	271	228	0	65	0	271	171	171	222	49	0	0	228	73	102	126					
1163+50.00	483	418	231	0	65	0	418	99	99	128	290	0	0	231	74	104	127					
1164+00.00	527	462	228	0	65	0	462	62	62	81	381	0	0	228	73	102	126					
1164+50.00	519	455	222	0	65	0	455	40	40	52	403	0	0	222	70	98	124					
1165+00.00	494	429	216	0	65	0	429	27	27	35	394	0	0	216	67	93	123					
1165+50.00	452	387	208	0	65	0	387	25	25	33	354	0	0	208	63	88	121					
1166+00.00	389	324	198	0	65	0	324	36	36	47	277	0	0	198	58	81	117					
1166+50.00	323	258	186	0	65	0	258	55	55	72	186	0	0	186	52	73	114					
1167+00.00	280	215	175	0	65	0	215	72	72	94	121	0	0	175	46	65	110					
1167+50.00	257	193	166	0	65	0	193	75	75	98	95	0	0	166	42	59	107					
1168+00.00	218	153	159	0	65	0	153	98	98	127	26	0	0	159	27	38	121					
1168+50.00	214	149	157	0	65	0	149	111	111	145	4	0	0	157	29	40	117					
1169+00.00	248	183	177	0	65	0	183	210	210	273	-90	0	0	177	54	76	101					
1169+50.00	254	189	232	0	65	0	189	591	591	768	-579	0	0	232	82	115	116					
1170+00.00	253	189	285	0	65	0	189	1,102	1,102	1,432	-1,244	0	0	285	108	152	133					
1170+50.00	251	186	298	0	65	0	186	904	904	1,175	-989	0	0	298	115	161	137					
1171+00.00	245	180	271	0	65	0	180	335	335	436	-255	0	0	271	101	142	129					
1171+50.00	240	175	166	0	65	0	175	161	161	209	-34	0	0	166	82	115	50					
1172+00.00	205	141	84	0	65	0	141	124	124	161	-20	0	0	84	64	89	-6					
1172+50.00	164	99	98	0	65	0	99	107	107	139	-40	0	0	98	33	47	52					
1173+00.00	179	114	140	0	65	0	114	68	68	88	26	0	0	140	28	40	100					
1173+50.00	216	151	173	0	65	0	151	62	62	81	70	0	0	173	46	64	109					
1174+00.00	223	159	176	0	65	0	159	85	85	111	48	0	0	176	47	66	110					
1174+50.00	221	156	172	0	65	0	156	95	95	123	34	0	0	172	45	64	108					
1175+00.00	221	156	166	0	65	0	156	92	92	120	37	0	0	166	42	59	107					
1175+50.00	224	160	162	0	65	0	160	87	87	114	46	0	0	162	40	57	106					
1176+00.00	235	170	162	0	65	0	170	81	81	105	65	0	0	162	40	56	106					
1176+50.00	244	179	161	0	65	0	179	72	72	94	86	0	0	161	40	56	106					
1177+00.00	260	195	163	0	65	0	195	57	57	74	122	0	0	163	41	57	106					
1177+50.00	273	208	164	0	65	0	208	46	46	59	149	0	0	164	41	58	106					
1178+00.00	275	210	163	0	65	0	210	43	43	56	154	0	0	163	41	57	106					
1178+50.00	276	211	162	0	65	0	211	48	48	63	149	0	0	162	40	56	106					
1179+00.00	283	218	164	0	65	0	218	51	51	66	152	0	0	164	41	57	107					
1179+50.00	307	242	168	0	65	0	242	37	37	48	195	0	0	168	43	60	108					
1180+00.00	342	278	172	0	65	0	278	21	21	27	251	0	0	172	45	63	109					
1180+50.00	353	288	172	0	65	0	288	16	16	21	268	0	0	172	45	64	109					
1181+00.00	337	273	170	0	65	0	273	18	18	23	250	0	0	170	44	62	108					
1181+50.00	322	257	167	0	65	0	257	20	20	26	231	0	0	167	43	60	108					
1182+00.00	303	238	163	0	65	0	238	17	17	22	216	0	0	163	41	57	106					
1182+50.00	280	215	151	0	65	0	215	22	22	29	186	0	0	151	35	49	103					
1183+00.00	267	202	139	0	65	0	202	30	30	39	163	0	0	139	28	40	99					
1183+50.00	262	197	135	0	65	0	197	35	35	45	152	0	0	135	26	37	98					
1184+00.00																						
Subtotals:	18,948	13,820	11,502	0	4,854	275	14,095	7,443	7,443	9,680	4,417	0	0	11,502	2,952	4,136	7,366					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut							Fill				Checks (EW-102)		Topsoil							
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1184+00.00	259	194	136	0	65	0	194	48	48	62	132	0	0	136	27	37	99					
1184+50.00	295	230	144	0	65	0	230	37	37	49	182	0	0	144	31	43	101					
1185+00.00	318	253	145	0	65	0	253	18	18	23	230	0	0	145	31	44	101					
1185+50.00	274	209	119	0	65	0	209	20	20	25	184	0	0	119	22	30	89					
1186+00.00	240	176	96	0	65	0	176	24	24	31	145	0	0	96	14	20	77					
1186+50.00	262	165	93	0	97	0	165	28	28	36	129	0	0	93	14	20	73					
1187+00.00	268	143	117	0	125	0	143	63	63	81	62	0	0	117	14	20	97					
1187+50.00	243	129	145	0	114	0	129	82	82	107	22	0	0	145	14	20	126					
1188+00.00	240	133	145	0	107	0	133	70	70	91	42	0	0	145	14	20	125					
1188+50.00	243	142	123	0	102	0	142	55	55	72	70	0	0	123	14	20	103					
1189+00.00	253	155	95	0	98	0	155	32	32	42	113	0	0	95	14	20	75					
1189+50.00	255	159	90	0	96	0	159	28	28	37	122	0	0	90	14	20	70					
1190+00.00	256	162	94	0	94	0	162	26	26	33	128	0	0	94	14	20	75					
1190+50.00	257	164	98	0	93	0	164	26	26	34	130	0	0	98	14	20	79					
1191+00.00	250	159	104	0	91	0	159	38	38	49	110	0	0	104	14	20	84					
1191+50.00	241	153	125	0	89	0	153	56	56	73	79	0	0	125	14	20	106					
1192+00.00	234	147	152	0	87	0	147	70	70	91	55	0	0	152	14	20	132					
1192+50.00	229	144	161	0	85	0	144	64	64	84	60	0	0	161	14	20	141					
1193+00.00	223	140	162	0	83	0	140	59	59	77	63	0	0	162	14	20	142					
1193+50.00	214	133	162	0	82	0	133	62	62	81	52	0	0	162	14	20	142					
1194+00.00	212	133	162	0	80	0	133	54	54	70	63	0	0	162	14	20	143					
1194+50.00	209	132	163	0	78	0	132	54	54	70	62	0	0	163	14	20	143					
1195+00.00	201	125	163	0	76	0	125	67	67	87	38	0	0	163	14	20	144					
1195+50.00	194	120	164	0	74	0	120	76	76	99	22	0	0	164	14	20	144					
1196+00.00	205	132	162	0	72	0	132	65	65	84	49	0	0	162	27	38	124					
1196+50.00	215	145	163	0	70	0	145	49	49	64	81	0	0	163	40	57	106					
1197+00.00	207	138	163	0	69	0	138	52	52	68	70	0	0	163	40	56	107					
1197+50.00	199	114	162	18	67	0	132	57	57	74	58	0	0	162	39	54	108					
1198+00.00	193	98	163	29	66	0	127	63	63	82	45	0	0	163	39	54	109					
1198+50.00	190	96	167	28	66	0	124	75	75	98	26	0	0	167	40	57	110					
1199+00.00	190	87	169	37	66	0	124	89	89	116	8	0	0	169	42	59	110					
1199+50.00	194	84	169	45	65	0	130	97	97	126	4	0	0	169	43	60	109					
1200+00.00	199	81	169	53	65	0	134	99	99	129	5	0	0	169	44	61	108					
1200+50.00	187	78	169	44	65	0	122	107	107	139	-17	0	0	169	44	61	108					
1201+00.00	190	110	179	15	65	0	125	110	110	144	-19	0	0	179	49	68	111					
1201+50.00	197	101	193	31	65	0	132	128	128	166	-34	0	0	193	56	78	115					
1202+00.00	180	56	207	59	65	0	116	262	262	340	-225	0	0	207	63	88	119					
1202+50.00	175	50	212	60	65	0	110	317	317	412	-302	0	0	212	66	92	120					
1203+00.00	172	52	205	56	65	0	108	244	244	317	-209	0	0	205	62	87	118					
1203+50.00	161	57	197	39	65	0	96	222	222	289	-193	0	0	197	58	81	115					
1204+00.00	164	79	186	21	65	0	99	215	215	279	-180	0	0	186	53	74	113					
1204+50.00	178	102	177	11	65	0	113	199	199	259	-146	0	0	177	48	67	110					
1205+00.00	183	108	172	9	65	0	118	172	172	224	-106	0	0	172	45	64	108					
1205+50.00	197	105	171	28	65	0	132	153	153	199	-67	0	0	171	45	63	108					
1206+00.00	228	141	174	23	65	0	163	135	135	175	-12	0	0	174	46	65	109					
1206+50.00	283	218	183	0	65	0	218	114	114	149	70	0	0	183	51	71	112					
1207+00.00	322	257	191	0	65	0	257	103	103	134	124	0	0	191	55	76	114					
1207+50.00	345	280	195	0	65	0	280	99	99	129	151	0	0	195	56	79	116					
1208+00.00	400	335	202	0	65	0	335	95	95	123	212	0	0	202	60	84	118					
1208+50.00	466	401	212	0	65	0	401	79	79	103	299	0	0	212	65	91	121					
1209+00.00	518	453	221	0	65	0	453	64	64	84	370	0	0	221	69	97	124					
1209+50.00	558	493	225	0	65	0	493	72	72	93	400	0	0	225	71	99	126					
1210+00.00	573	509	225	0	65	0	509	83	83	108	401	0	0	225	71	100	125					
1210+50.00	590	525	224	0	65	0	525	84	84	109	417	0	0	224	71	99	125					
1211+00.00	609	544	222	0	65	0	544	83	83	108	436	0	0	222	70	98	124					
1211+50.00	568	503	217	0	65	0	503	80	80	104	399	0	0	217	67	94	122					
1212+00.00	553	489	213	0	65	0	489	77	77	100	389	0	0	213	65	92	121					
1212+50.00	577	512	210	0	65	0	512	75	75	98	414	0	0	210	64	90	120					
1213+00.00	434	369	201	0	65	0	369	80	80	104	265	0	0	201	60	84	117					
1213+50.00	242	178	185	0	65	0	178	121	121	157	21	0	0	185	52	73	112					
1214+00.00	201	136	179	0	65	0	136	132	132	172	-35	0	0	179	49	68	111					
1214+50.00	197	133	179	0	65	0	133	108	108	140	-8	0	0	179	48	68	111					
1215+00.00	191	126	170	0	65	0	126	102	102	133	-7	0	0	170	44	62	109					
1215+50.00	197	132	165	0	65	0	132	98	98	127	5	0	0	165	41	58	107					
1216+00.00	204	139	169	0	65	0	139	104	104	136	3	0	0	169	43	61	108					
1216+50.00	214	149	174	0	65	0	149	110	110	143	6	0	0	174	46	64	110					
1217+00.00	204	140	174	0	65	0	140	120	120	156	-17	0	0	174	46	64	110					
1217+50.00	190	125	171	0	65	0	125	156	156	202	-78	0	0	171	30	42	129					
1218+00.00																						
Subtotals:	18,512	12,958	11,388	605	4,948	0	13,564	6,302	6,302	8,195	5,370	0	0	11,388	2,672	3,743	7,645					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1218+00.00																						
1218+50.00	186	121	171	0	65	0	121	174	174	226	-105	0	0	171	30	42	129					
1219+00.00	186	121	177	0	65	0	121	170	170	221	-100	0	0	177	47	66	110					
1219+50.00	188	123	180	0	65	0	123	162	162	211	-88	0	0	180	49	69	111					
1220+00.00	191	126	182	0	65	0	126	159	159	206	-80	0	0	182	50	70	112					
1220+50.00	197	132	191	0	65	0	132	211	211	274	-142	0	0	191	55	77	114					
1221+00.00	200	135	206	0	65	0	135	310	310	403	-268	0	0	206	62	87	119					
1221+50.00	189	125	206	0	65	0	125	400	400	521	-396	0	0	206	40	56	150					
1222+00.00	185	120	212	0	65	0	120	407	407	530	-410	0	0	212	43	60	152					
1222+50.00	199	122	224	12	65	0	134	364	364	473	-339	0	0	224	71	100	124					
1223+00.00	202	126	219	12	65	0	138	357	357	464	-327	0	0	219	68	96	123					
1223+50.00	198	133	215	0	65	0	133	354	354	460	-327	0	0	215	66	93	122					
1224+00.00	195	130	212	0	65	0	130	317	317	412	-283	0	0	212	65	91	121					
1224+50.00	191	126	210	0	65	0	126	276	276	358	-232	0	0	210	64	90	120					
1225+00.00	194	124	208	5	65	0	129	234	234	304	-175	0	0	208	63	89	119					
1225+50.00	195	119	205	11	65	0	130	198	198	257	-127	0	0	205	62	87	118					
1226+00.00	199	122	202	12	65	0	134	193	193	251	-117	0	0	202	60	84	117					
1226+50.00	208	125	200	19	65	0	144	191	191	248	-105	0	0	200	59	83	117					
1227+00.00	210	123	197	23	65	0	145	183	183	238	-93	0	0	197	58	81	116					
1227+50.00	203	124	191	15	65	0	139	178	178	232	-93	0	0	191	55	77	114					
1228+00.00	198	128	185	5	65	0	133	170	170	221	-88	0	0	185	52	73	112					
1228+50.00	196	130	181	2	65	0	131	171	171	222	-91	0	0	181	50	70	111					
1229+00.00	195	130	176	1	65	0	131	164	164	214	-83	0	0	176	47	66	109					
1229+50.00	195	130	158	0	65	0	130	141	141	184	-54	0	0	158	38	53	104					
1230+00.00	198	133	150	0	65	0	133	113	113	148	-15	0	0	150	34	48	102					
1230+50.00	216	151	162	0	65	0	151	89	89	116	35	0	0	162	40	56	106					
1231+00.00	229	165	167	0	65	0	165	72	72	94	71	0	0	167	43	60	107					
1231+50.00	224	160	165	0	65	0	160	69	69	90	69	0	0	165	42	58	107					
1232+00.00	219	154	164	0	65	0	154	88	88	114	41	0	0	164	41	58	106					
1232+50.00	220	155	168	0	65	0	155	100	100	130	26	0	0	168	43	60	107					
1233+00.00	238	173	174	0	65	0	173	75	75	97	76	0	0	174	46	65	110					
1233+50.00	252	187	176	0	65	0	187	69	69	90	97	0	0	176	47	66	110					
1234+00.00	248	183	174	0	65	0	183	96	96	126	58	0	0	174	46	64	110					
1234+50.00	238	173	169	0	65	0	173	104	104	136	38	0	0	169	43	61	108					
1235+00.00	228	163	157	0	65	0	163	119	119	155	9	0	0	157	42	59	98					
1235+50.00	227	162	168	0	65	0	162	236	236	306	-144	0	0	168	51	72	96					
1236+00.00	230	165	180	0	65	0	165	218	218	284	-119	0	0	180	56	79	102					
1236+50.00	231	166	142	0	65	0	166	74	74	96	70	0	0	142	33	47	95					
1237+00.00	228	163	103	0	65	0	163	48	48	62	101	0	0	103	14	20	84					
1237+50.00	223	158	98	0	65	0	158	46	46	60	98	0	0	98	16	22	76					
1238+00.00	216	151	105	0	65	0	151	49	49	64	88	0	0	105	16	22	83					
1238+50.00	219	154	137	0	65	0	154	78	78	102	52	0	0	137	27	38	99					
1239+00.00	222	157	148	0	65	0	157	92	92	119	38	0	0	148	27	38	109					
1239+50.00	222	157	141	0	65	0	157	84	84	110	47	0	0	141	14	20	122					
1240+00.00	228	163	149	0	65	0	163	78	78	102	61	0	0	149	24	33	117					
1240+50.00	229	164	152	0	65	0	164	77	77	101	64	0	0	152	35	49	103					
1241+00.00	229	165	156	0	65	0	165	83	83	107	57	0	0	156	37	52	104					
1241+50.00	234	169	159	0	65	0	169	76	76	99	70	0	0	159	38	54	105					
1242+00.00	244	179	164	0	65	0	179	68	68	89	90	0	0	164	41	57	107					
1242+50.00	248	183	166	0	65	0	183	63	63	82	101	0	0	166	42	58	107					
1243+00.00	251	187	166	0	65	0	187	63	63	82	104	0	0	166	42	59	108					
1243+50.00	260	195	167	0	65	0	195	65	65	85	111	0	0	167	42	59	108					
1244+00.00	254	189	167	0	65	0	189	75	75	98	91	0	0	167	42	59	108					
1244+50.00	243	178	168	0	65	0	178	87	87	113	65	0	0	168	43	60	108					
1245+00.00	234	169	167	0	65	0	169	88	88	115	54	0	0	167	42	59	108					
1245+50.00	224	159	166	0	65	0	159	91	91	119	40	0	0	166	42	58	108					
1246+00.00	216	151	165	0	65	0	151	94	94	122	30	0	0	165	41	58	107					
1246+50.00	219	154	166	0	65	0	154	93	93	120	34	0	0	166	42	59	108					
1247+00.00	221	156	168	0	65	0	156	88	88	114	42	0	0	168	43	60	108					
1247+50.00	215	150	167	0	65	0	150	88	88	114	36	0	0	167	42	59	108					
1248+00.00	212	147	167	0	65	0	147	94	94	122	26	0	0	167	42	59	108					
1248+50.00	210	146	166	0	65	0	146	100	100	130	15	0	0	166	42	59	108					
1249+00.00	207	142	166	0	65	0	142	109	109	142	0	0	0	166	42	59	108					
1249+50.00	202	116	166	22	65	0	137	110	110	144	-6	0	0	166	42	58	107					
1250+00.00	194	96	161	33	65	0	129	91	91	119	10	0	0	161	39	55	106					
1250+50.00	189	96	158	28	65	0	124	71	71	93	32	0	0	158	38	53	105					
1251+00.00	190	91	157	35	65	0	126	62	62	81	45	0	0	157	37	52	105					
1251+50.00	187	98	129	24	65	0	122	51	51	67	56	0	0	129	25	35	93					
1252+00.00	187	109	100	13	65	0	122	44	44	58	64	0	0	100	14	20	80					
Subtotals:	14,555	9,878	11,534	270	4,406	0	10,149	9,416	9,416	12,244	-2,095	0	0	11,534	2,937	4,114	7,420					

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

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1252+00.00	187	108	98	14	65	0	122	45	45	58	64	0	0	98	14	20	78					
1252+50.00	187	107	97	15	65	0	123	39	39	51	72	0	0	97	14	20	77					
1253+00.00	191	118	131	8	65	0	126	122	122	159	-33	0	0	131	29	40	91					
1253+50.00	193	128	185	0	65	0	128	269	269	350	-223	0	0	185	52	73	112					
1254+00.00	205	140	208	0	65	0	140	324	324	422	-282	0	0	208	64	90	118					
1254+50.00	317	157	226	95	65	0	252	287	287	373	-121	0	0	226	74	104	122					
1255+00.00	415	147	241	203	65	0	350	254	254	331	20	0	0	241	82	115	126					
1255+50.00	320	147	239	108	65	0	255	354	354	460	-205	0	0	239	49	69	170					
1256+00.00	211	146	213	0	65	0	146	480	480	625	-479	0	0	213	37	52	162					
1256+50.00	192	127	188	0	65	0	127	462	462	600	-473	0	0	188	58	81	107					
1257+00.00	192	128	180	0	65	0	128	386	386	502	-374	0	0	180	55	77	103					
1257+50.00	200	135	176	0	65	0	135	373	373	485	-350	0	0	176	53	74	101					
1258+00.00	203	138	181	0	65	0	138	325	325	423	-284	0	0	181	56	79	102					
1258+50.00	210	145	184	0	65	0	145	229	229	298	-153	0	0	184	59	82	102					
1259+00.00	235	170	179	0	65	0	170	178	178	231	-61	0	0	179	57	79	100					
1259+50.00	234	169	170	0	65	0	169	142	142	184	-15	0	0	170	53	74	96					
1260+00.00	210	145	157	0	65	0	145	125	125	163	-18	0	0	157	47	66	92					
1260+50.00	202	138	151	0	65	0	138	119	119	154	-17	0	0	151	45	63	89					
1261+00.00	204	139	150	0	65	0	139	111	111	145	-6	0	0	150	45	63	88					
1261+50.00	205	140	150	0	65	0	140	120	120	156	-15	0	0	150	45	64	87					
1262+00.00	199	134	148	0	65	0	134	133	133	173	-39	0	0	148	45	63	85					
1262+50.00	189	124	145	0	65	0	124	145	145	189	-65	0	0	145	44	62	83					
1263+00.00	191	126	146	0	65	0	126	152	152	197	-71	0	0	146	46	64	82					
1263+50.00	203	138	157	0	65	0	138	138	138	179	-41	0	0	157	52	72	84					
1264+00.00	210	145	167	0	65	0	145	118	118	153	-8	0	0	167	57	80	87					
1264+50.00	216	151	137	0	65	0	151	98	98	127	24	0	0	137	57	80	57					
1265+00.00																						
I-35NB																						
Totals:	105,247	72,999	66,175	2,109	24,681	5,460	80,566	49,403	49,403	64,242	16,330	0	0	66,175	17,718	24,821	41,354					

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

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut							Fill				Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Select Loam Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Summary:																						
I-35SB	12,790	12,790	28,231	0	0	0	12,790	7,856	7,856	10,230	2,555	0	0	28,231	6,825	9,584	18,648					
I-35NB	105,247	72,999	66,175	2,109	24,681	5,460	80,566	49,403	49,403	64,242	16,330	0	0	66,175	17,718	24,821	41,354					
Project Totals:	118,037	85,789	94,406	2,109	24,681	5,460	93,356	57,259	57,259	74,472	18,885	0	0	94,406	24,543	34,405	60,002					

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

Horizontal Curve Data for Curve #1
P.I. STA. 1058+42.03, 45.50' LT.
Δ = 05° 51' 14.80" (LT)
T = 178.96
L = 357.61
R = 3,500
E = 4.57

Horizontal Curve Data for Curve #2
P.I. STA. 1059+72.93, 35.79' LT.
Δ = 01° 40' 19.90" (RT)
T = 51.49
L = 102.97
R = 3,528
E = 0.38

Horizontal Curve Data for Curve #3
P.I. STA. 1060+75.87, 81.42' LT.
Δ = 01° 52' 38.50" (RT)
T = 57.81
L = 115.60
R = 3,528
E = 0.47

Horizontal Curve Data for Curve #4
P.I. STA. 1062+14.96, 72.47' LT.
Δ = 06° 19' 49.30" (LT)
T = 193.55
L = 386.70
R = 3,500
E = 5.35

1053+00 1054+00 1055+00 1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00

STA. 1054+36.14, 28.00' LT.
ELEV.=904.62

STA. 1054+36.14, 24.00' LT.
BEGIN MEDIAN CROSSOVER
ELEV.=904.70

2.00%

STA. 1056+63.95, 28.00' LT.
P.C. OF CURVE #1
ELEV.=900.46
BEGIN 3' GRANULAR SHOULDER

STA. 1056+63.97, 24.00' LT.
ELEV.=900.54

CONSTANT 2.00% CROSS SLOPE

STA. 1058+42.03, 45.50' LT.
P.I. OF CURVE #1
ELEV.=896.02

STA. 1058+42.03, 24.00' LT.
ELEV.=896.45

2.06%

STA. 1059+22.04, 56.30' LT.
ELEV.=893.72

STA. 1059+22.04, 28.00' LT.
P.C. OF CURVE #2
ELEV.=894.29
BEGIN 3' GRANULAR SHOULDER

STA. 1059+22.04, 24.00' LT.
ELEV.=894.37

STA. 1059+67.93,63.34' LT.
ELEV.=892.39
INSTALL PIPE REDUCER
BEGIN SLOTTED MEDIAN DRAIN
F.L.=888.89 (36")
F.L.=888.95 (18")

STA. 1059+26.62, 71.01' LT.
2.5 DEGREE BEND (18")

STA. 1059+07.39, 73.03' LT.
DR-212 (18") F.L.=890.76

STA. 1060+18.86, 71.90' LT.
P.T. OF CURVE #1
P.C. OF CURVE #3
ELEV.=890.90

UNIFORM TRANSITION

STA. 1059+72.93, 35.79' LT
P.I. OF CURVE #2
ELEV.=892.54

84.4 LF OF 18" CORRUGATED
PIPE @ 2.87%

STA. 1060+23.70, 44.32' LF
P.T. OF CURVE #2
P.C. OF CURVE #4
ELEV.=890.79

STA. 1060+47.98, 48.49' LF
ELEV.=890.05
INSTALL PIPE REDUCER
END SLOTTED MEDIAN DRAIN
F.L.=886.55 (36")
F.L.=886.61 (18")

STA. 1060+88.34, 41.00' LF
2.5 DEGREE BEND (18")

STA. 1061+07.56, 38.98' LF
DR-212 (18") F.L.=886.01

STA. 1060+75.87, 81.42' LF
P.I. OF CURVE #3
ELEV.=889.25

STA. 1061+33.02, 94.01' LF
ELVE.=887.65

STA. 1061+33.02, 90.01' LF
P.T. OF CURVE #3
ELEV.=887.57
END 3' GRANULAR SHOULDER

STA. 1061+33.02, 61.73' LF
ELEV.=887.00

STA. 1062+14.96, 94.01' LF
ELEV.=885.26

2.00%

CONSTANT 2.00% CROSS SLOPE

STA. 1062+14.96, 72.47' LF
P.I. OF CURVE #4
ELEV.=884.83

STA. 1064+07.49, 94.01' LF
ELEV.=879.38

STA. 1064+07.49, 90.00' LF
P.T. OF CURVE #4
ELEV.=879.30
END 3' GRANULAR SHOULDER

STA. 1066+28.74, 94.01' LF
ELEV.=872.70

2.00%

STA. 1066+28.74, 90.01' LF
ELEV.=872.62

0 50 FEET

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

STA. 1140+93.73, 105.84' LT.
ELEV.=921.63 EX

STA. 1140+93.70, 93.84' LT.
ELEV.=921.39

2.00%

CONSTANT 2.00% CROSS SLOPE

STA. 1140+93.70, 80.84' LT.
ELEV.=921.13

STA. 1146+18.83, 105.81' LT.
ELEV.=925.00 EX

STA. 1146+18.83, 93.81' LT.
ELEV.=924.76

STA. 1146+18.83, 80.81' LT.
ELEV.=924.50

STA. 1146+12.99, 54.60' LT.
DR-212 (18") F.L.=922.01

10.5 LF OF 18" CORRUGATED PIPE @ 2.25%

2.00%

1.38%

0.98%

U.T.

M.E.

U.T.

STA. 1146+38.82, 54.78' LT.
ELEV.=924.59
BEGIN SLOTTED DRAIN
F.L.=922.59 (18")

STA. 1146+13.82, 18.45' LT.
MATCH EXISTING

STA. 1146+13.82, 13.00' LT.
MATCH EXISTING

STA. 1146+38.83, 105.83' LT.
ELEV.=925.37 EX

STA. 1146+38.83, 93.83' LT.
ELEV.=925.13

STA. 1146+38.83, 80.83' LT.
ELEV.=924.95

158.3 LF OF 18"
CORRUGATED PIPE @ 0.65%

STA. 1146+38.82, 18.39' LT
ELEV.=924.95

STA. 1146+38.82, 13.00' LT
ELEV.=925.00 EX

STA. 1148+01.11, 72.39' LT
EX. 24" FES F.L.=921.70
CULVERT EXTENSION 500-6

20.5 LF OF 18" CORRUGATED PIPE @ 3.20%

UNIFORM TRANSITION

444 LF OF 36" CORRUGATED PIPE @ 0.65%

UNIFORM TRANSITION

STA. 1148+05.13, 55.96' LT
INSTALL PIPE REDUCER
BEGIN SLOTTED MEDIAN DRAIN
F.L.=922.28 (36")
F.L.=922.36 (18")

STA. 1148+01.13, 55.93' LT
90 DEGREE BEND
F.L.=922.23

STA. 1147+97.13, 55.91' LT
END SLOTTED MEDIAN DRAIN
F.L.=923.62

STA. 1152+49.08, 105.83' LT.
ELEV.=929.61 EX

STA. 1152+49.08, 93.83' LT.
ELEV.=929.37

2.28%

0.91%

U.T.

M.E.

STA. 1152+69.11, 59.25' LT.
DR-212 (18") F.L.=927.00

4.7 LF OF 18" CORRUGATED PIPE @ 2.10%

STA. 1152+49.08, 18.41' LT.
ELEV.=928.95

STA. 1152+49.08, 13.00' LT.
ELEV.=929.00 EX

STA. 1152+74.08, 18.40' LT.
MATCH EXISTING

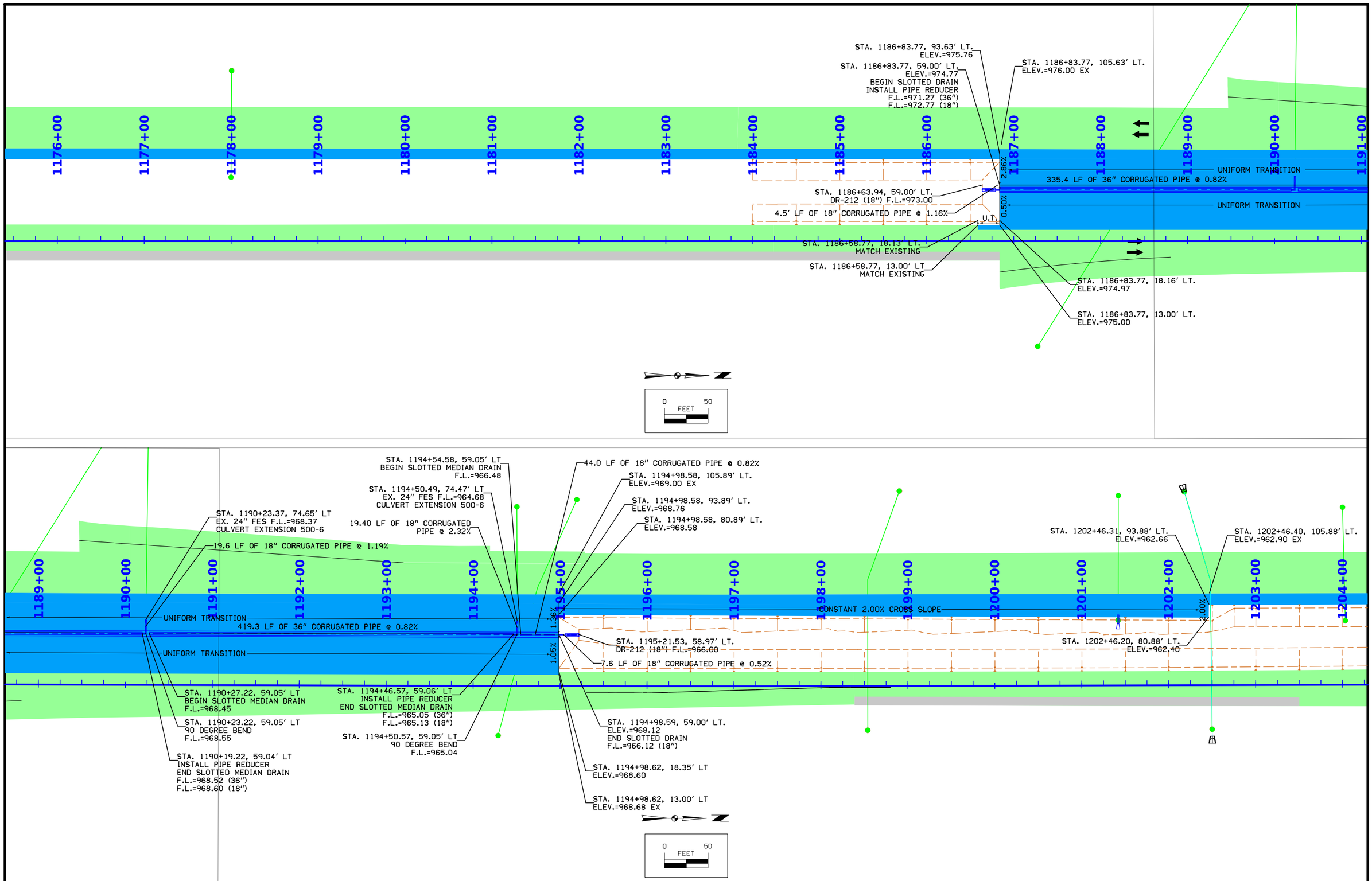
STA. 1152+74.08, 13.00' LT.
MATCH EXISTING

STA. 1152+49.08, 59.11' LT.
ELEV.=928.58
END SLOTTED DRAIN
INSTALL PIPE REDUCER
F.L.=925.08 (36")
F.L.=926.58 (18")

0 50 FEET

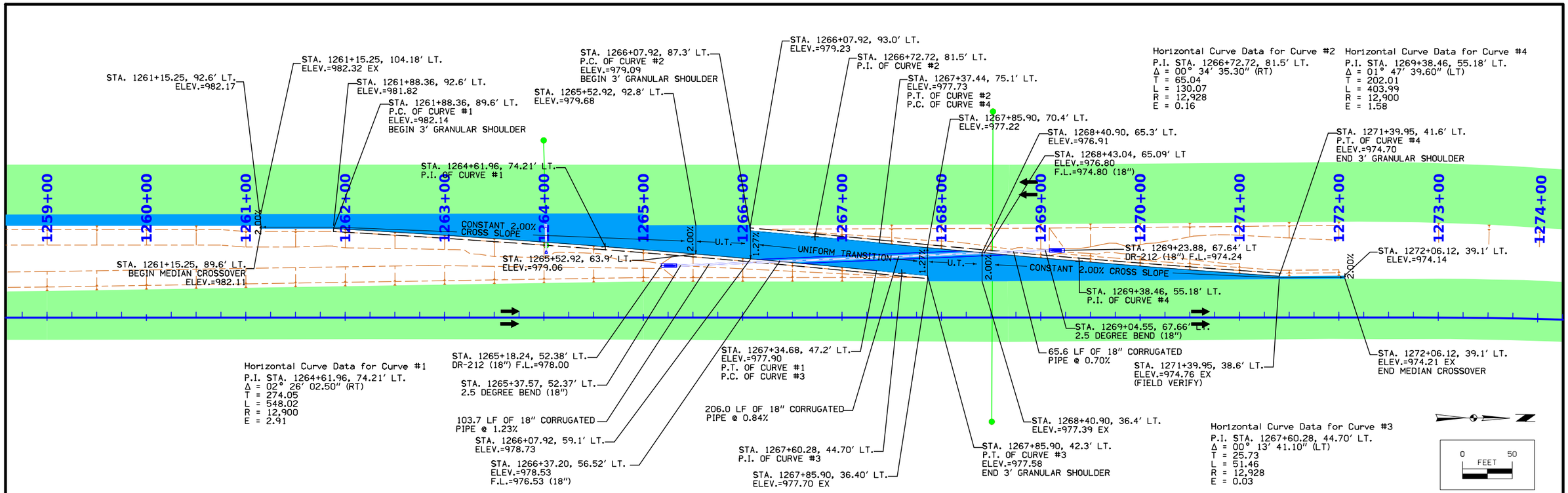
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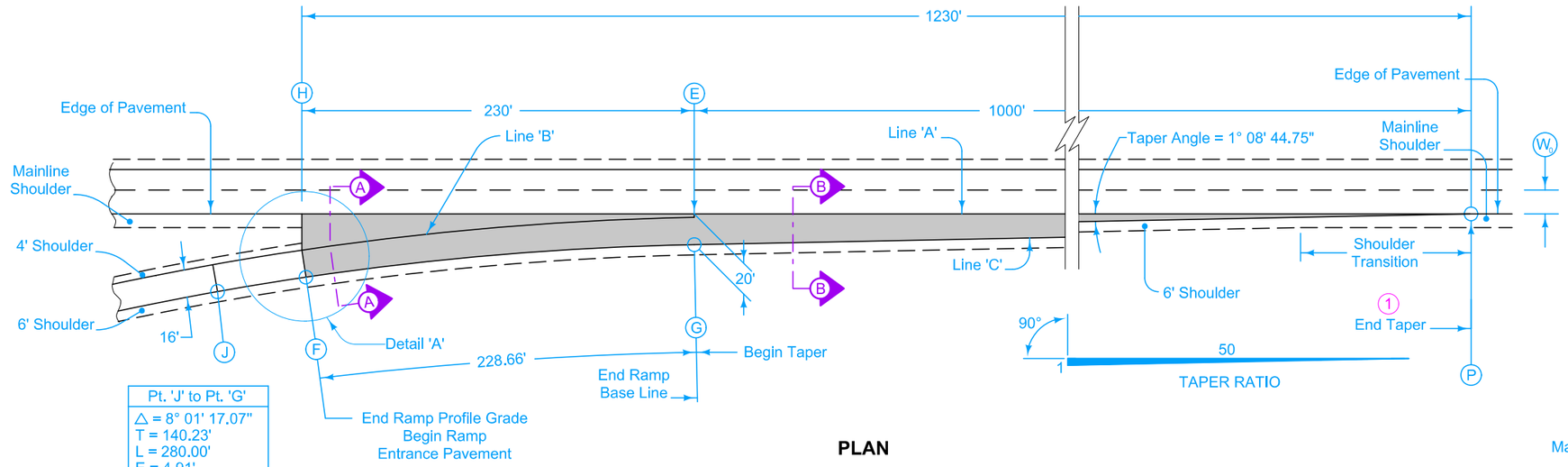
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FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER U.3	

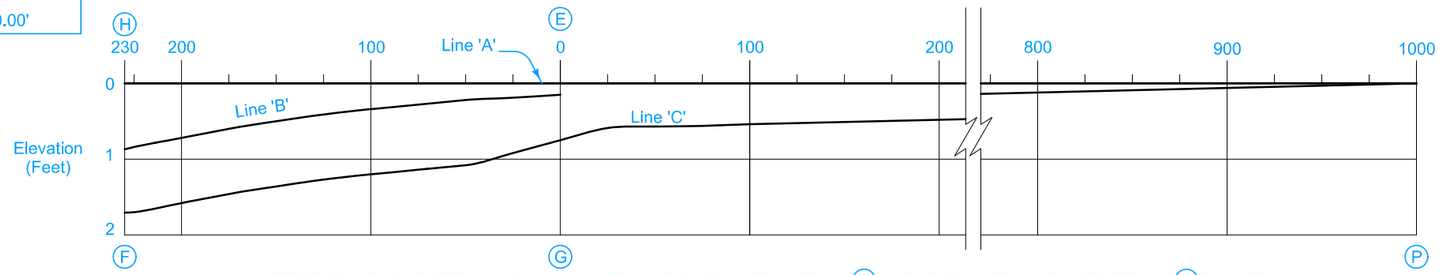
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Pt. 'J' to Pt. 'G'
△ = 8° 01' 17.07"
T = 140.23'
L = 280.00'
E = 4.91'
R = 2000.00'

End Ramp Profile Grade
Begin Ramp
Entrance Pavement

PLAN

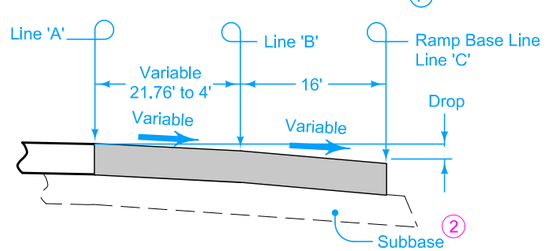


NOTE: The algebraic difference between profile grade for Ramp Base Line at (F) and relative profile grade of Mainline at (H) is 0.54%.

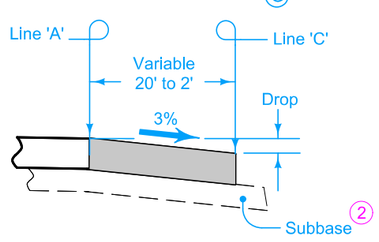
PROFILE

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																								
Distance From Point (E) Along Line 'A' (Ft.)		230	225	200	175	150	125	100	75	50	25	0	25	50	75	100	200	300	400	500	600	700	800	900	1000
From Line 'A' To Line 'B'	Offset (Ft.)	21.76	21.10	17.95	15.11	12.59	10.38	8.48	6.90	5.62	4.66	4.0													
	Slope (%)	2.40	2.40	2.40	3.03	3.65	← Constant 4.0% Slope →					3.78													
	Drop (Ft.)	0.87	0.84	0.72	0.60	0.50	0.42	0.34	0.28	0.22	0.19	0.15													
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 16.0' Offset →																							
	Slope (%)	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	4.58	3.78													
	Drop (Ft.)	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.73	0.60													
From Line 'A' To Line 'C'	Offset (Ft.)												19.5	19.0	18.5	18.0	16.0	14.0	12.0	10.0	8.0	6.0	4.0	2.0	0.0
	Slope (%)												← Constant 3.0% Slope →												
	Drop (Ft.)	1.73	1.70	1.58	1.46	1.36	1.28	1.20	1.14	1.08	0.92	0.75	0.59	0.57	0.56	0.54	0.48	0.42	0.36	0.30	0.24	0.18	0.12	0.06	0.0
Distance From Point (G) Along Line 'C' (Ft.)		228.66	223.66	198.66	173.70	148.77	123.87	99.00	74.15	49.31	24.49	0.00													

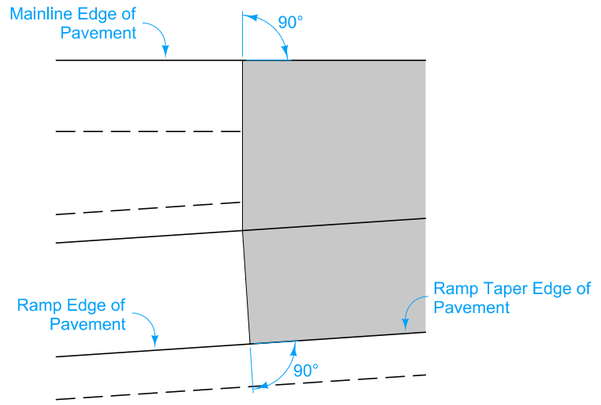
(H) (E) (F) (G) (P)



SECTION A-A



SECTION B-B



DETAIL A

TABLE OF SHOULDER TRANSITION LENGTHS			
W_0	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	200'	300'

NOTE: W_0 is the width of the outside lane to the Edge of Pavement.

Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1793 square yards.

For joint details, see PV-101

(1) For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.

REVISED ACCELERATION TAPER FOR 16' ENTRANCE RAMP

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

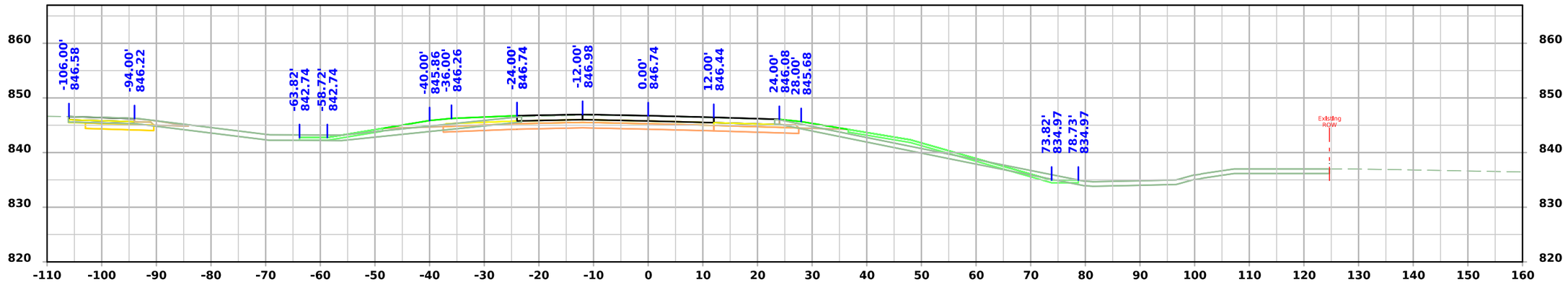
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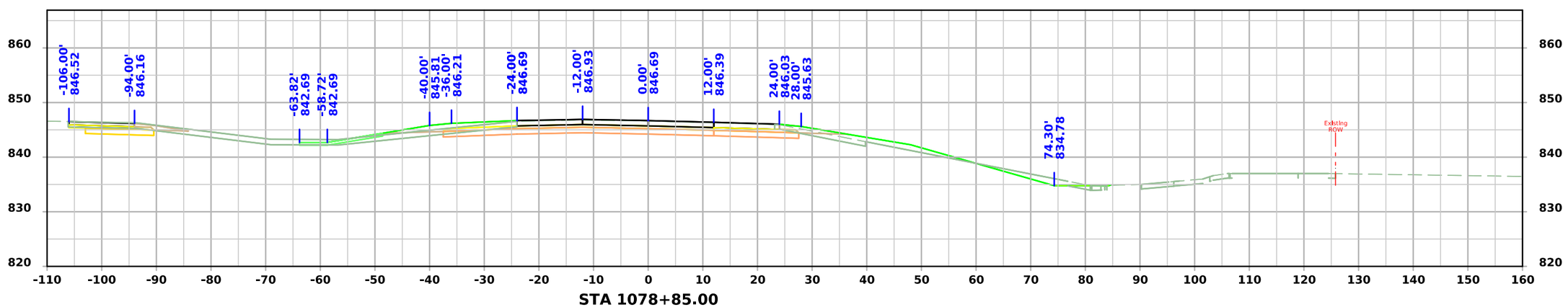
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

ML - I35 NB



STA 1079+00.00

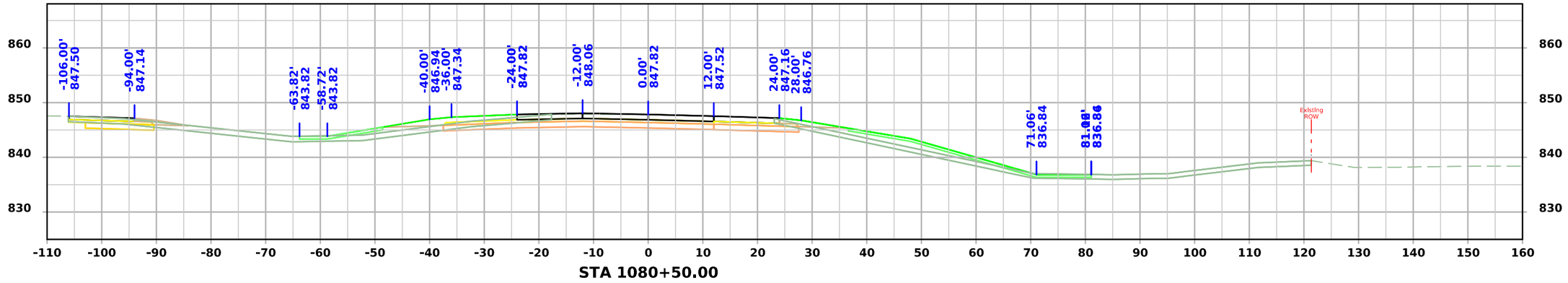


STA 1078+85.00

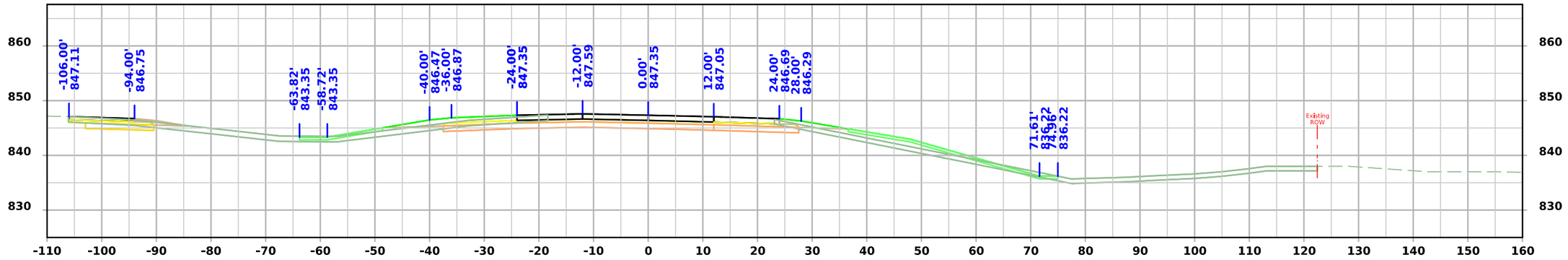
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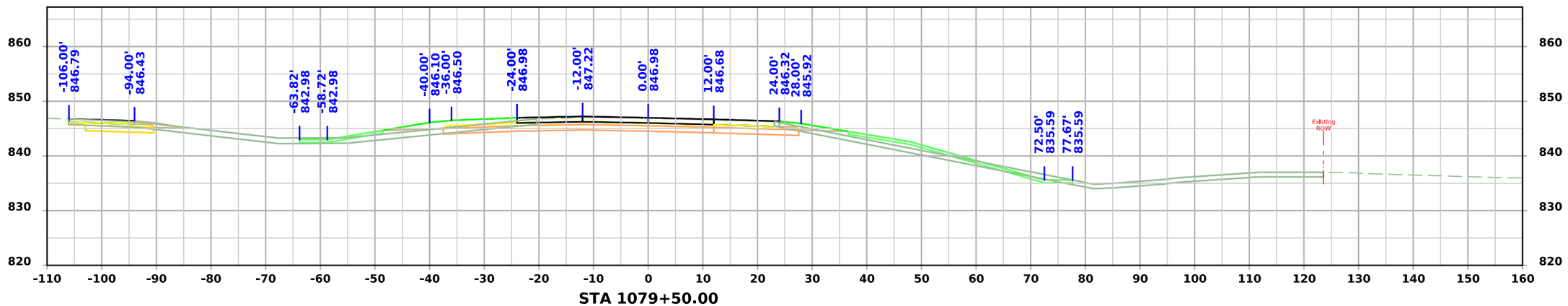
ML - I35 NB



STA 1080+50.00



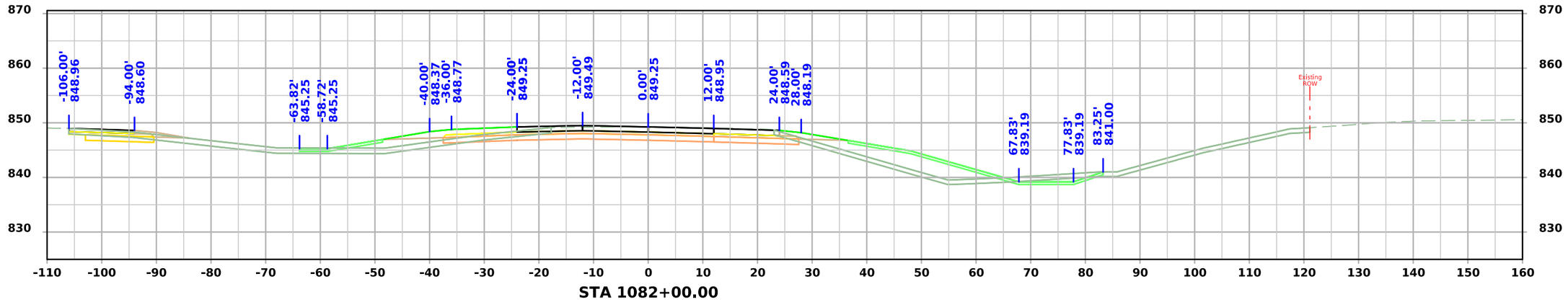
STA 1080+00.00



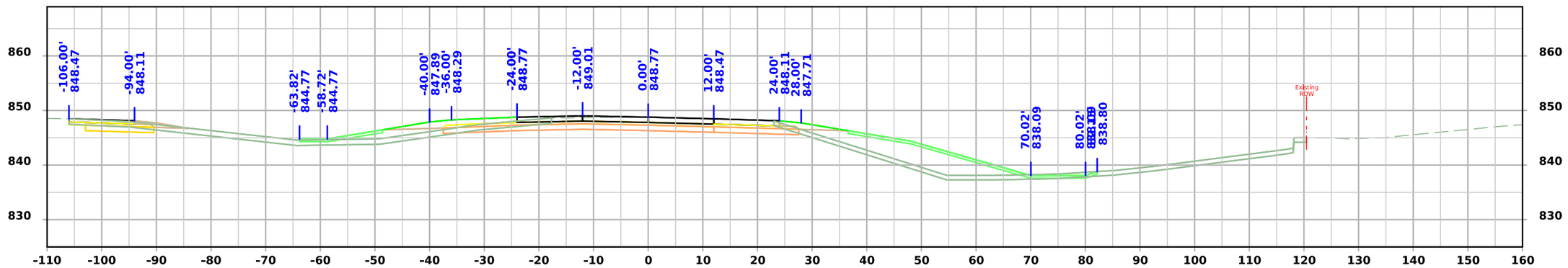
STA 1079+50.00

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

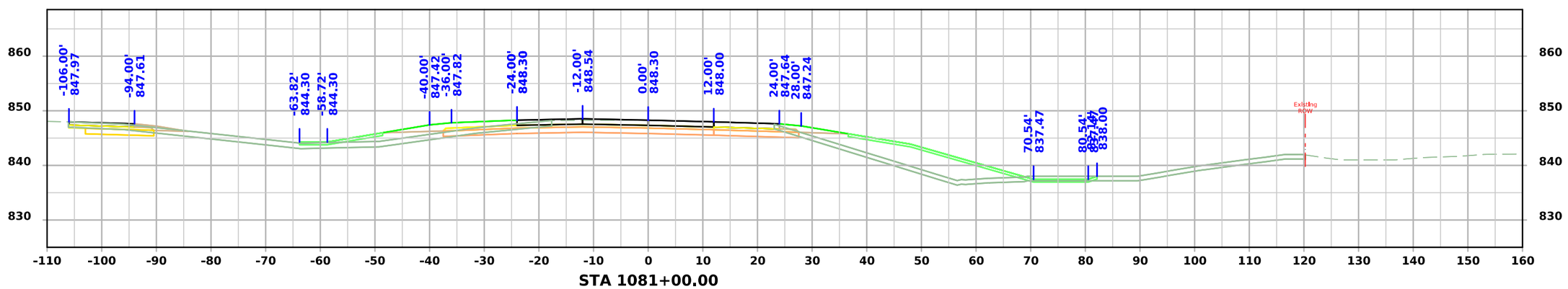
ML - I35 NB



STA 1082+00.00



STA 1081+50.00

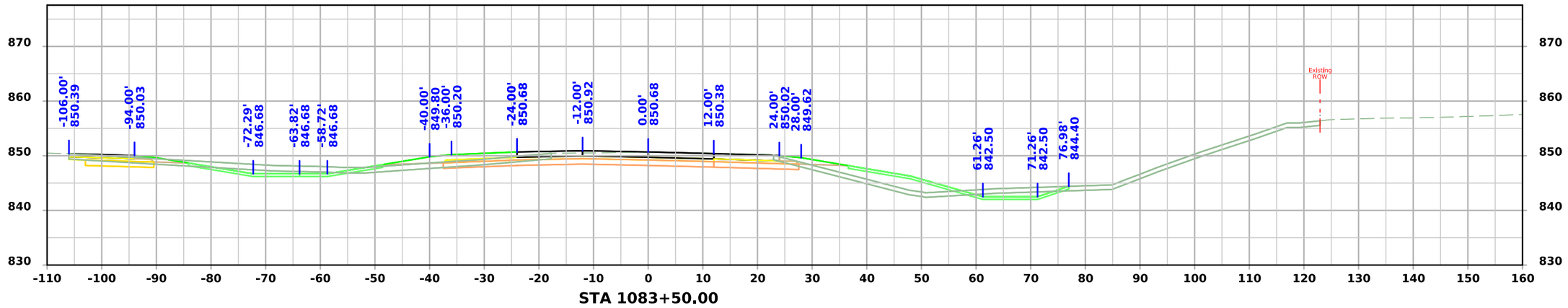


STA 1081+00.00

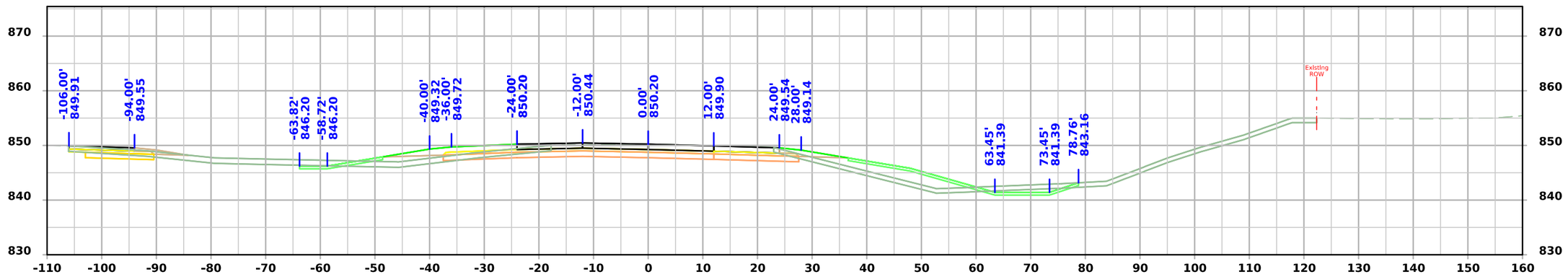
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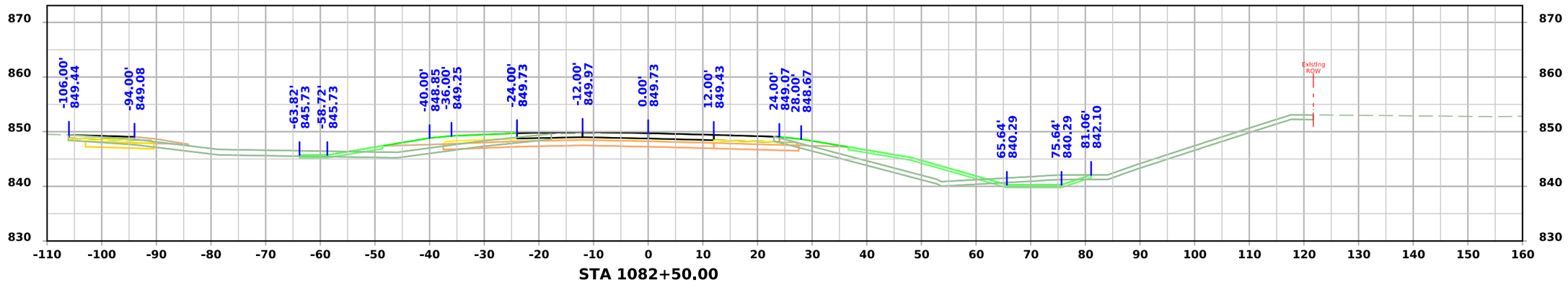
ML - I35 NB



STA 1083+50.00



STA 1083+00.00

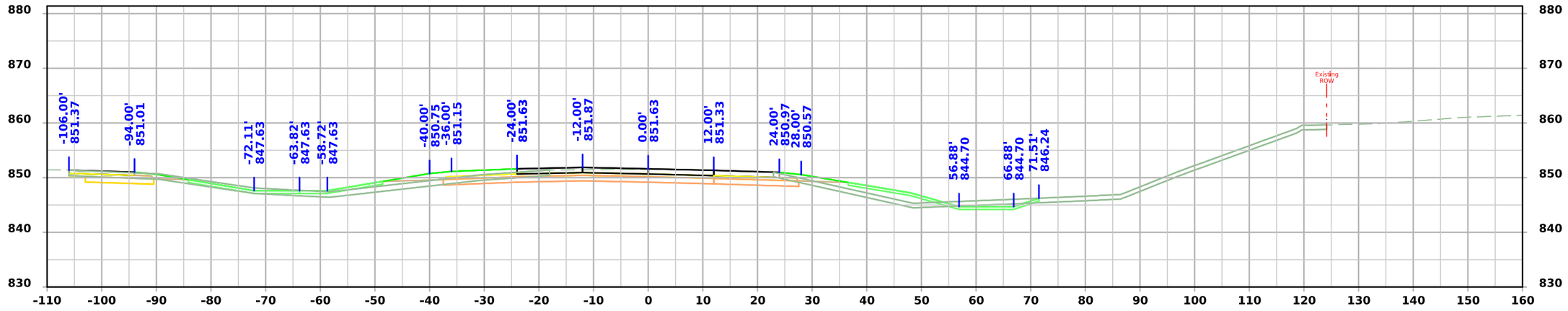


STA 1082+50.00

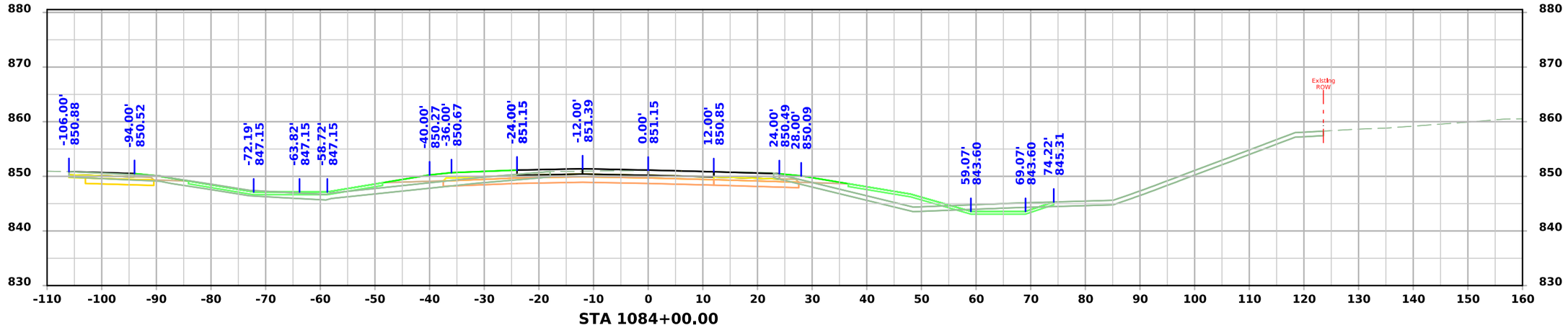
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9:59:43 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1084+50.00

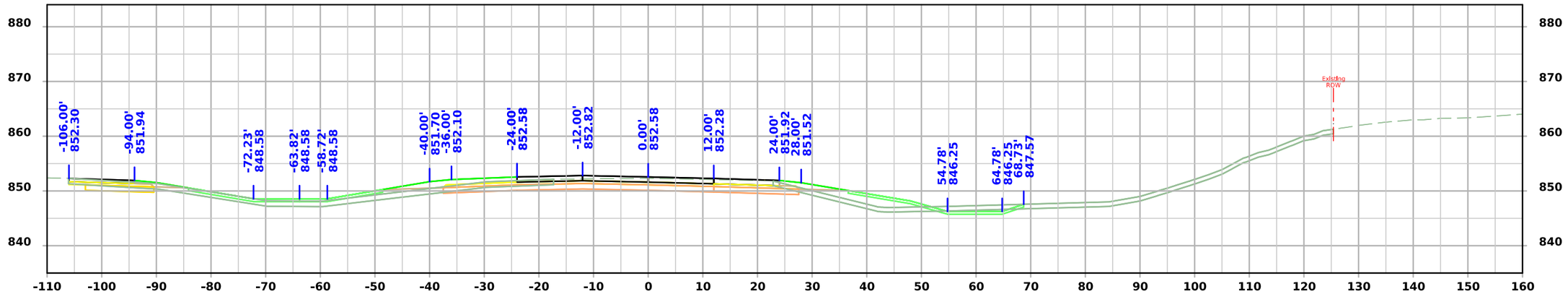


STA 1084+00.00

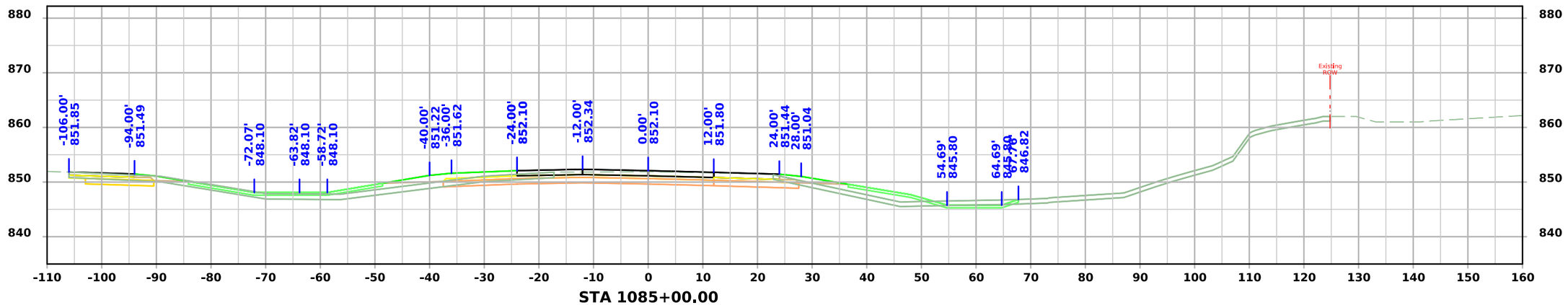
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9:59:45 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1085+50.00

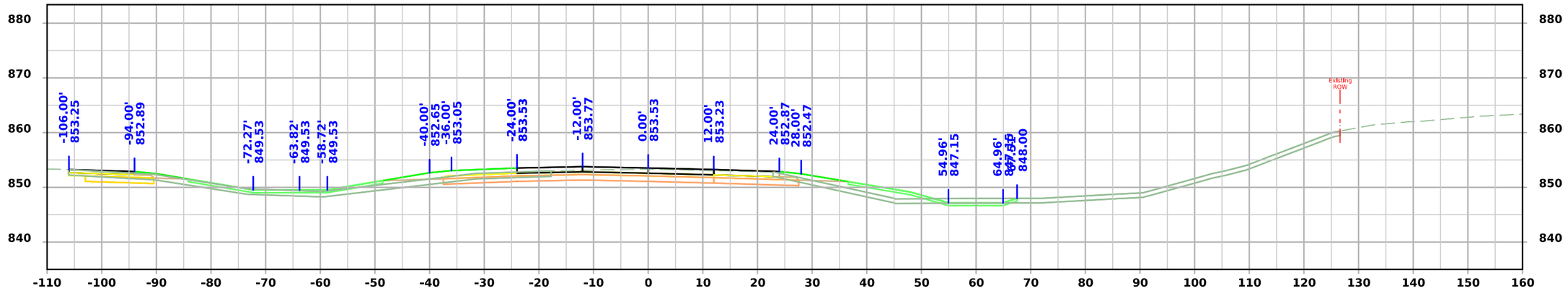


STA 1085+00.00

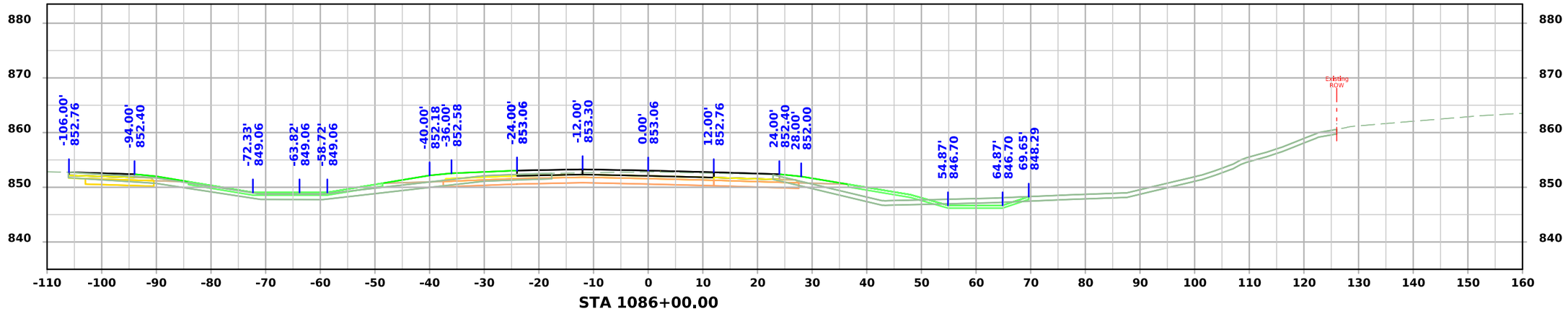
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9:59:47 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1086+50.00

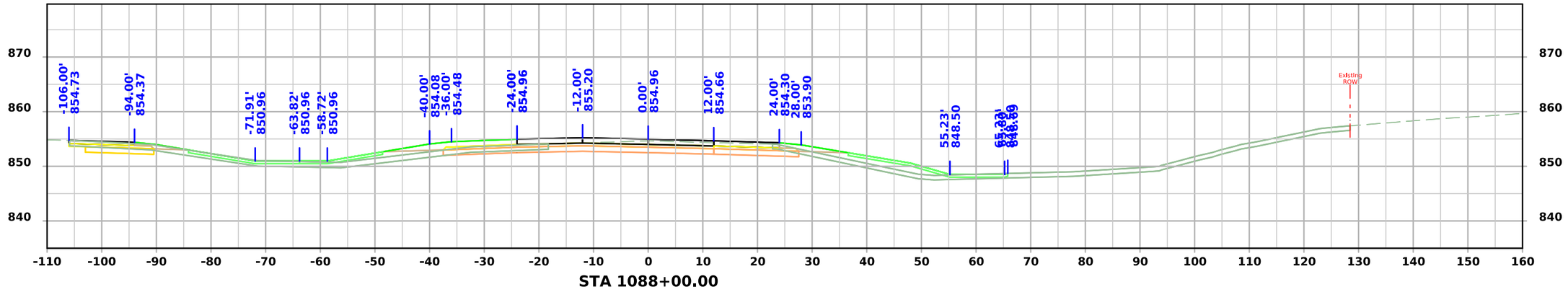


STA 1086+00.00

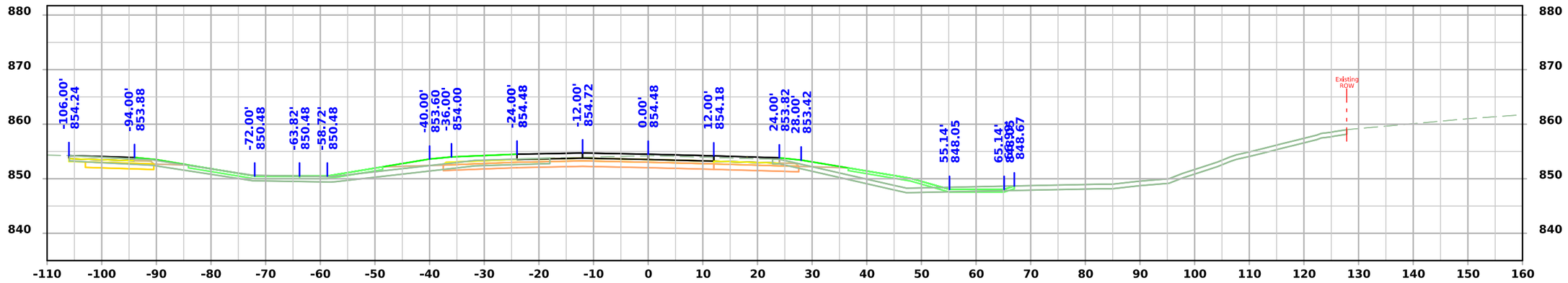
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.8

9:59:49 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

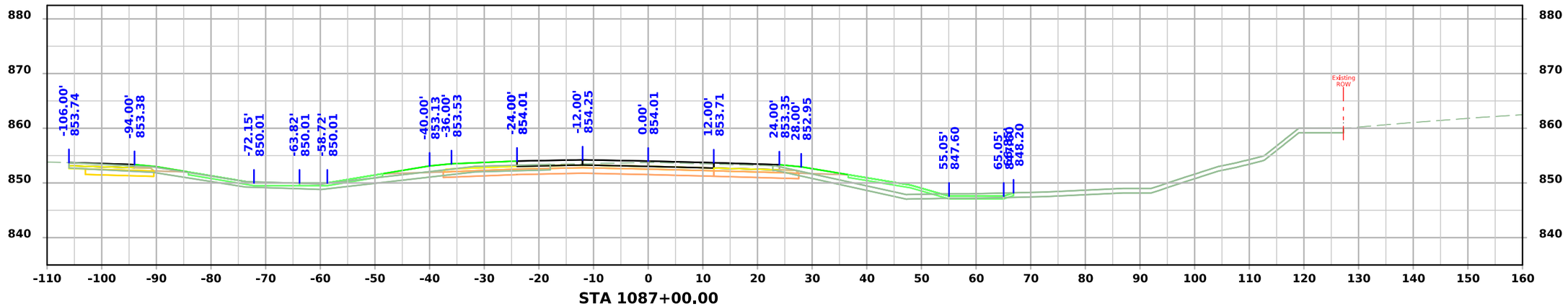
ML - I35 NB



STA 1088+00.00



STA 1087+50.00

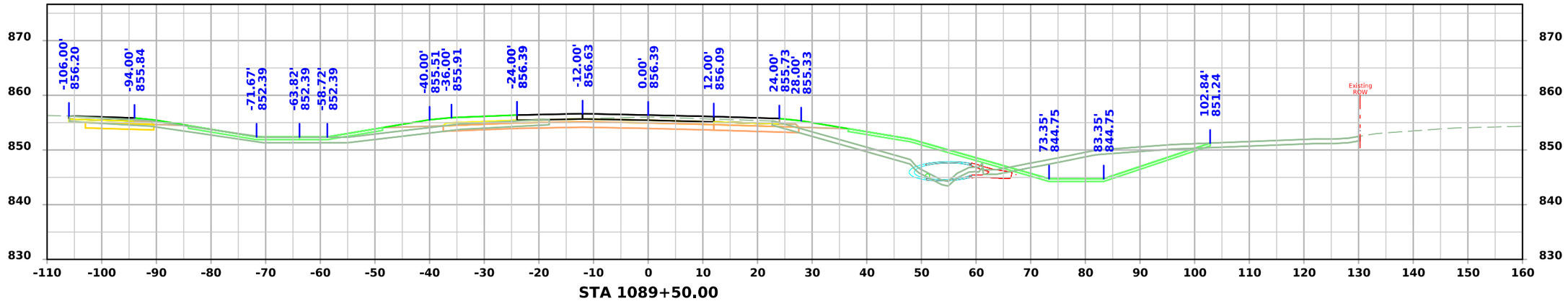


STA 1087+00.00

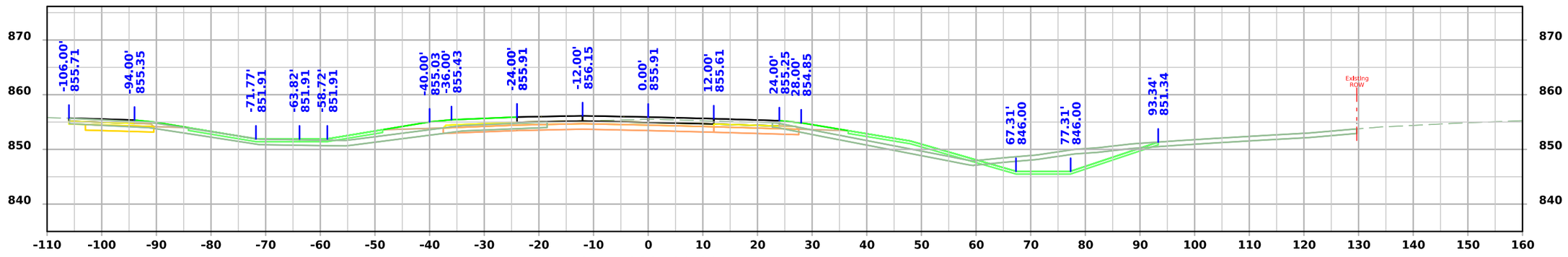
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9:59:51 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

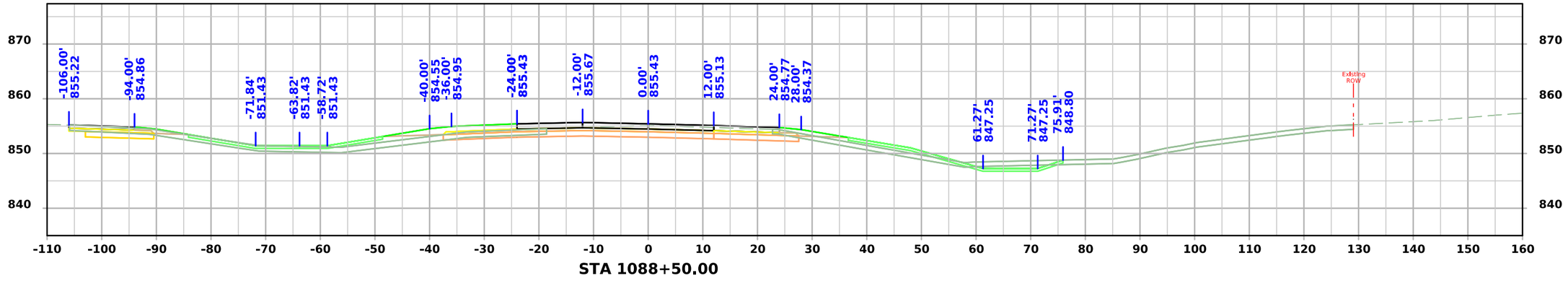
ML - I35 NB



STA 1089+50.00



STA 1089+00.00

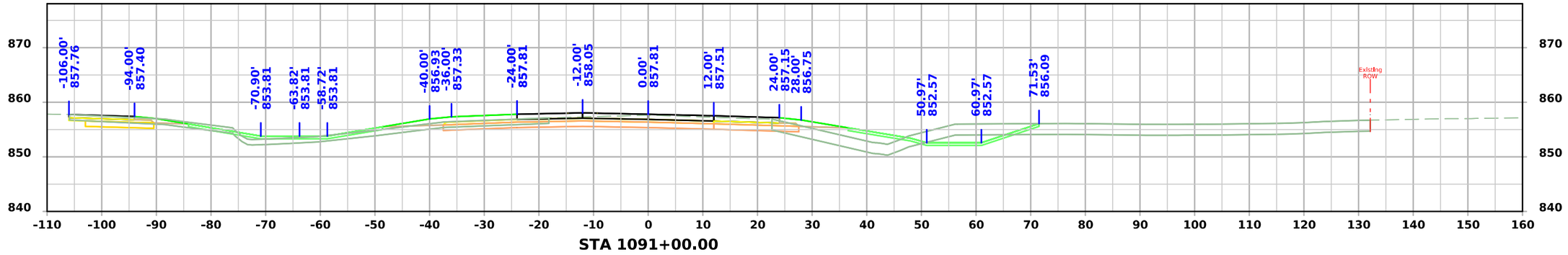


STA 1088+50.00

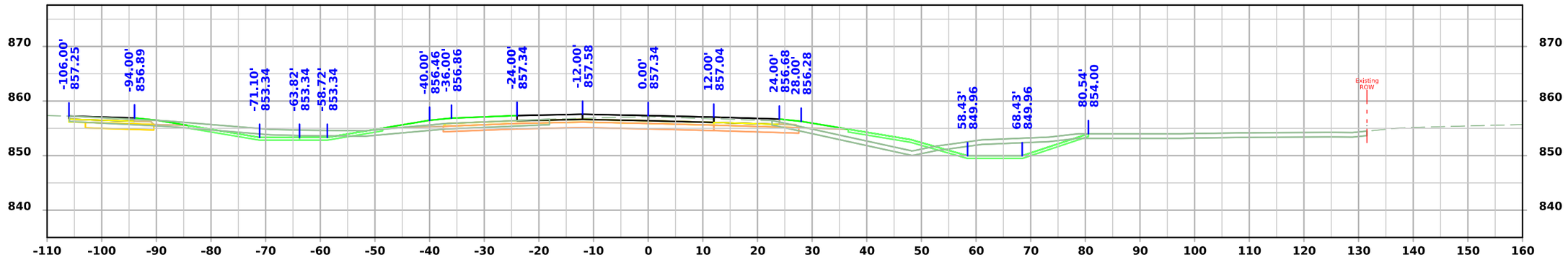
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9:59:55 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

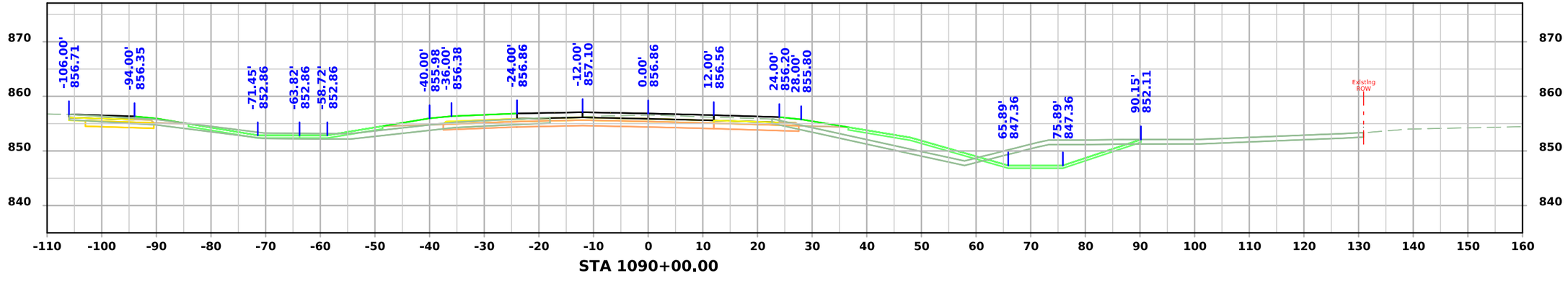
ML - I35 NB



STA 1091+00.00



STA 1090+50.00

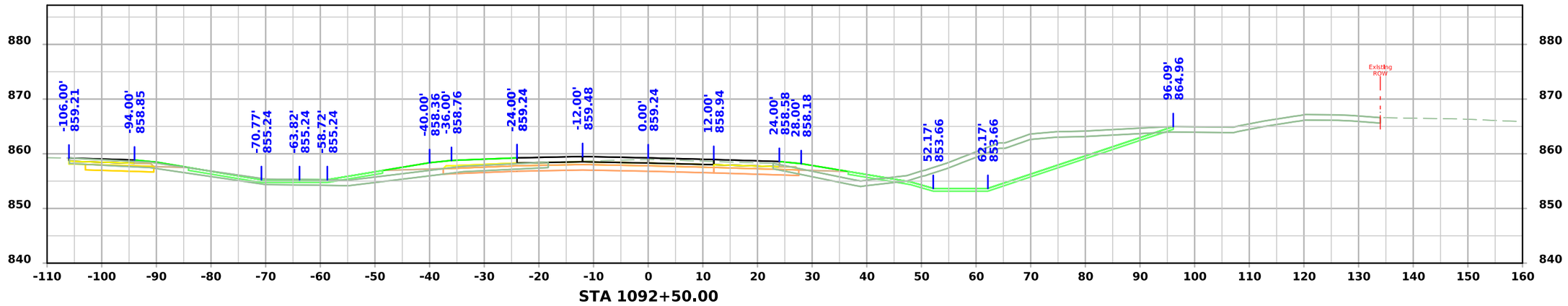


STA 1090+00.00

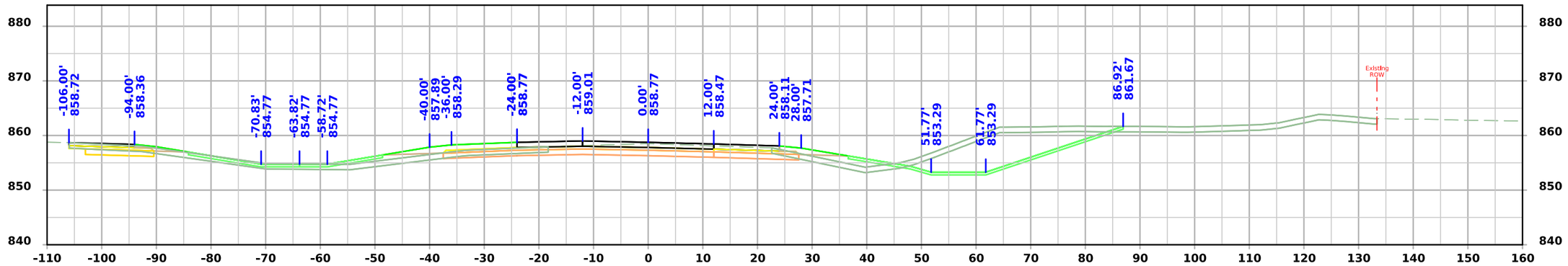
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9:59:57 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

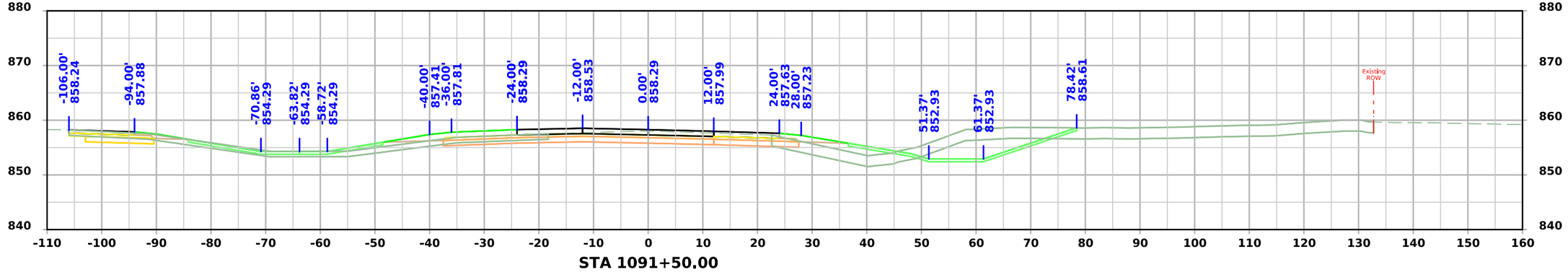
ML - I35 NB



STA 1092+50.00



STA 1092+00.00

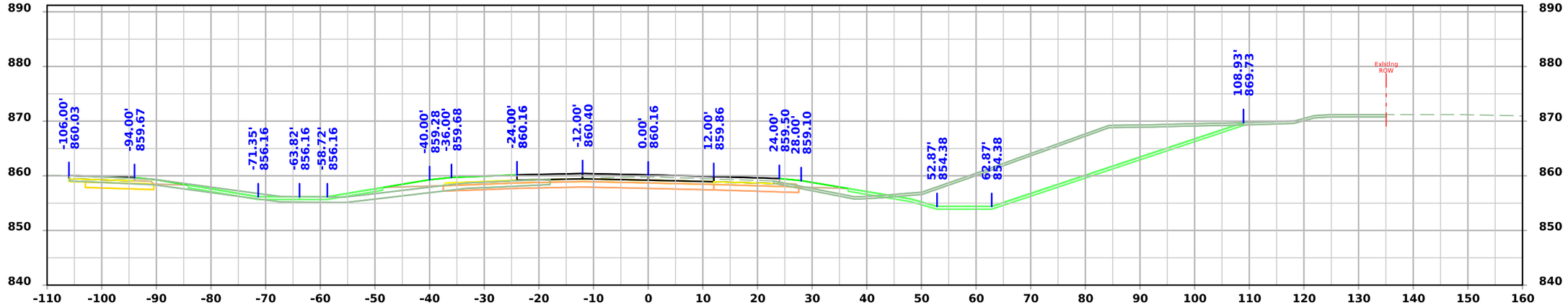


STA 1091+50.00

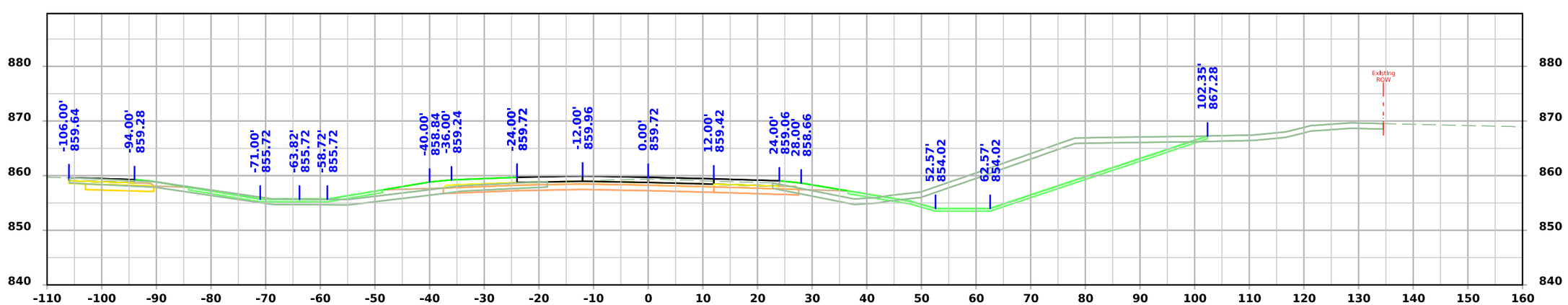
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.12

10:00:00 AM 7/8/2026 mkjartanson 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 1093+50.00

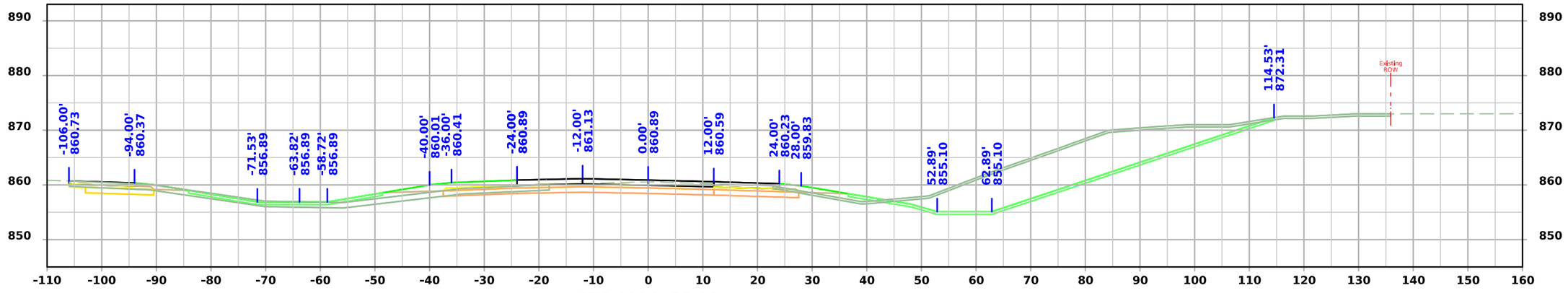


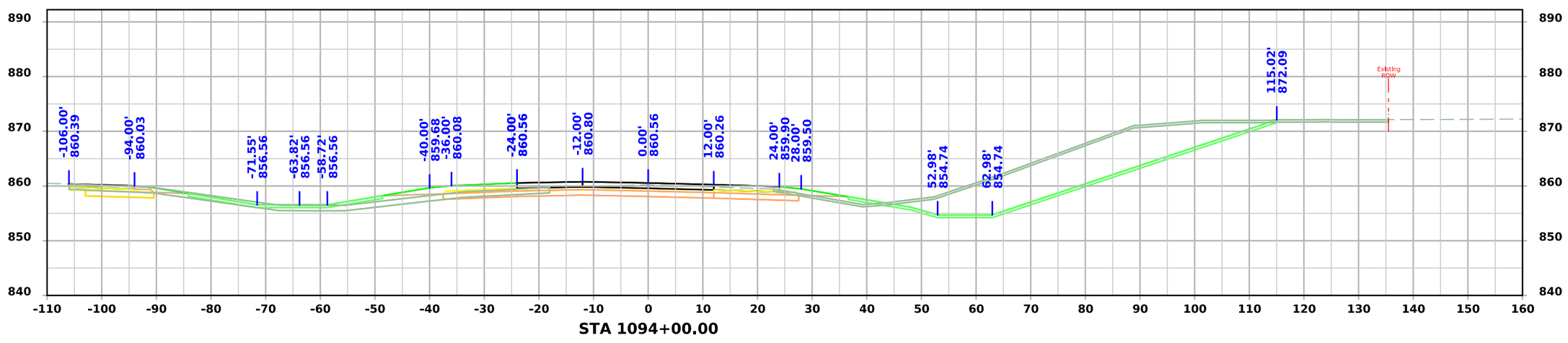
STA 1093+00.00

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

10:00:02 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB

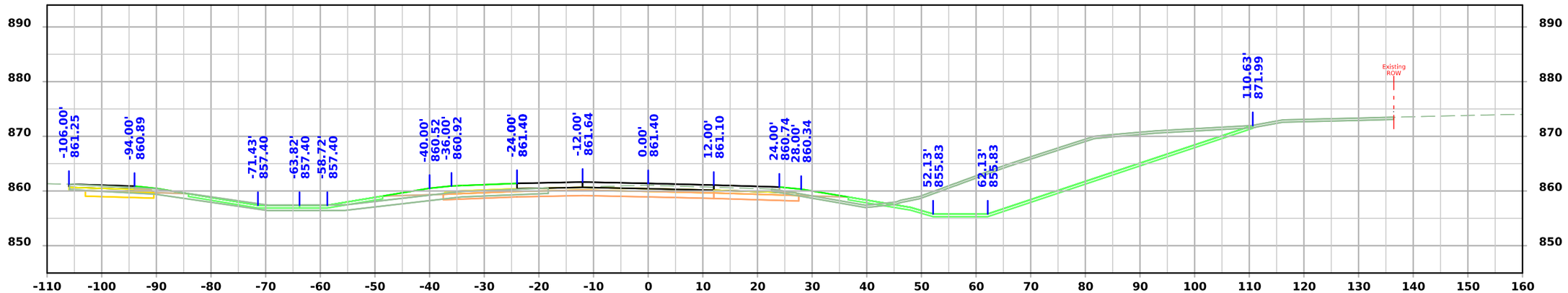




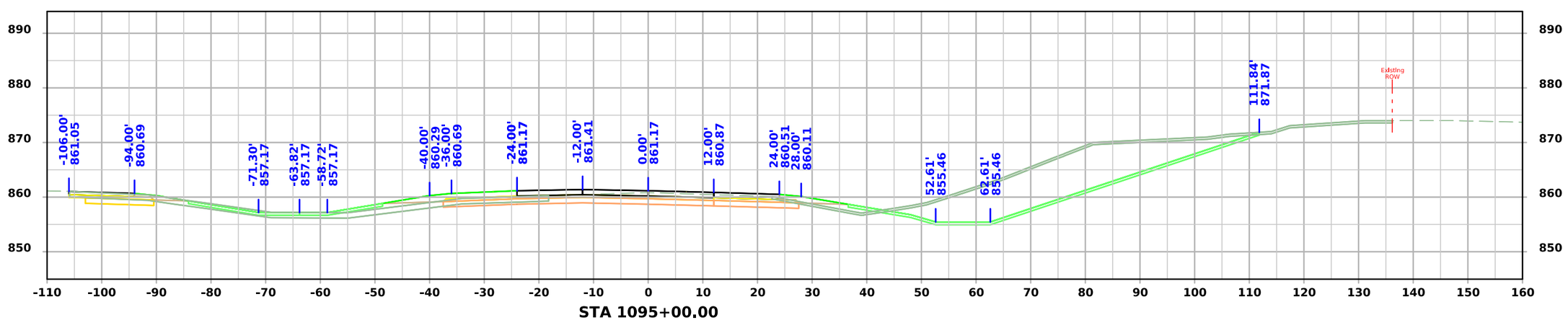
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10:00:04 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1095+50.00

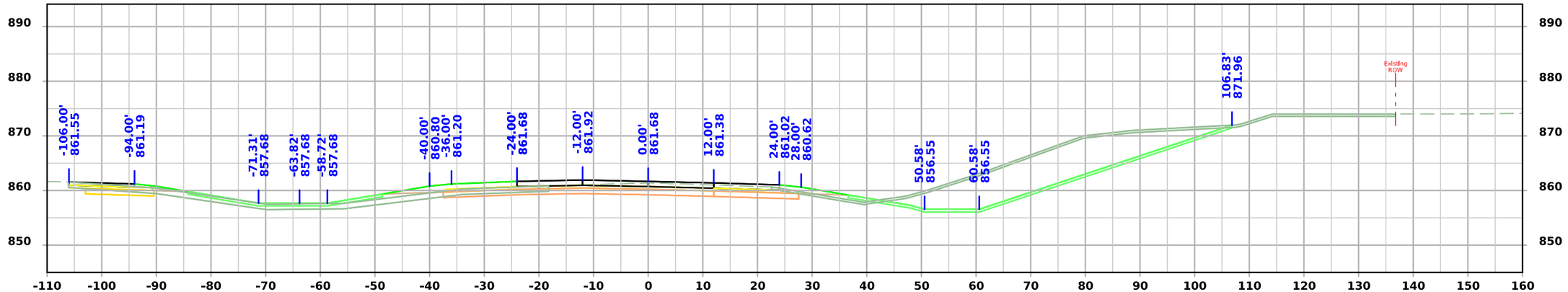


STA 1095+00.00

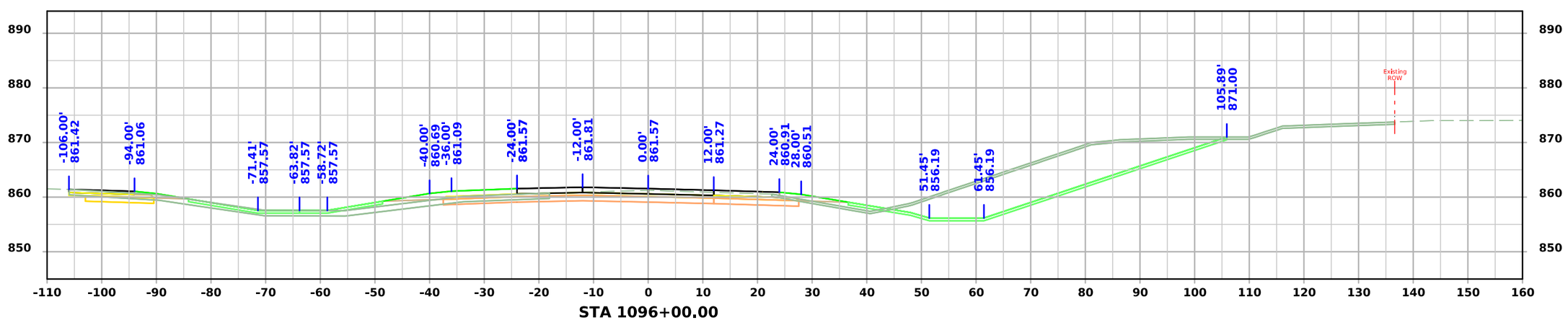
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10:00:06 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1096+50.00

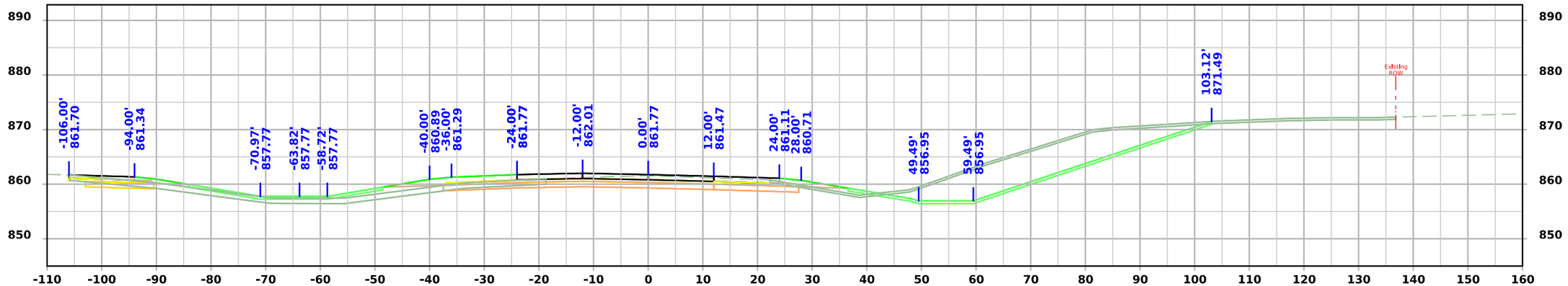


STA 1096+00.00

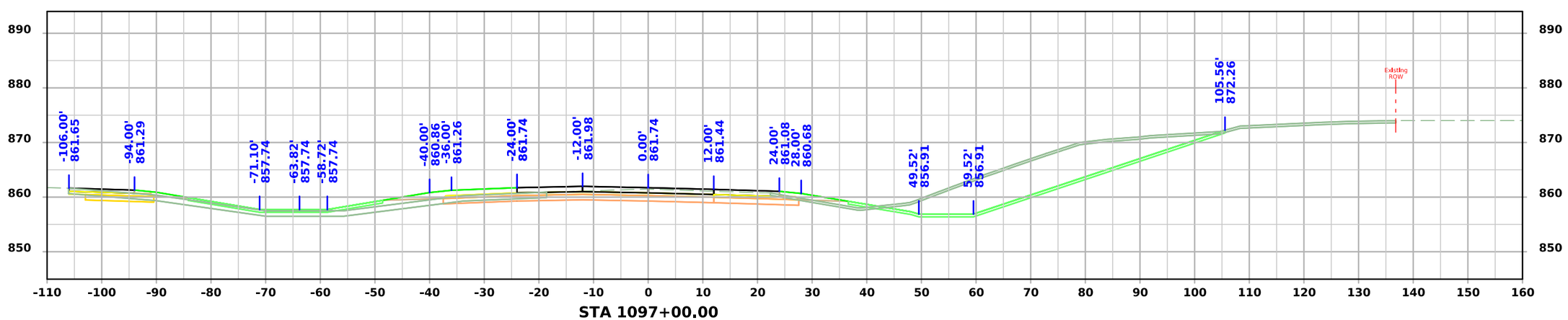
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10:00:08 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1097+50.00

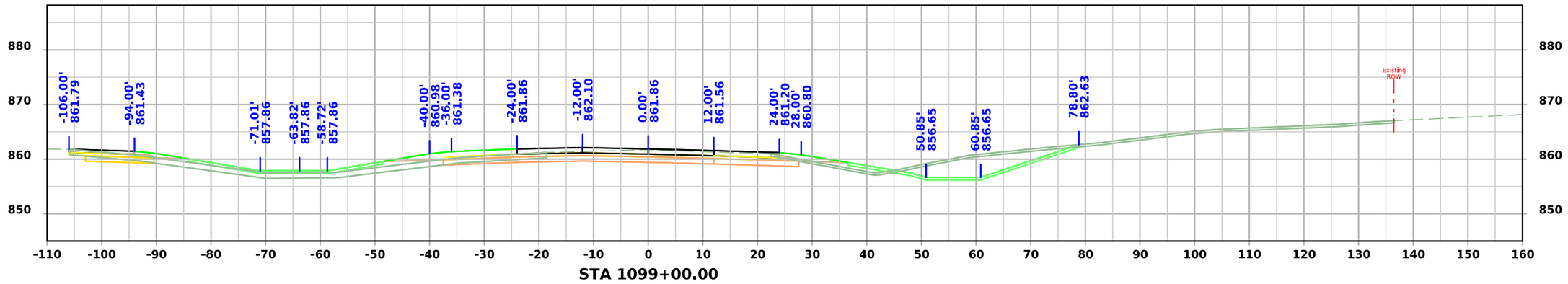


STA 1097+00.00

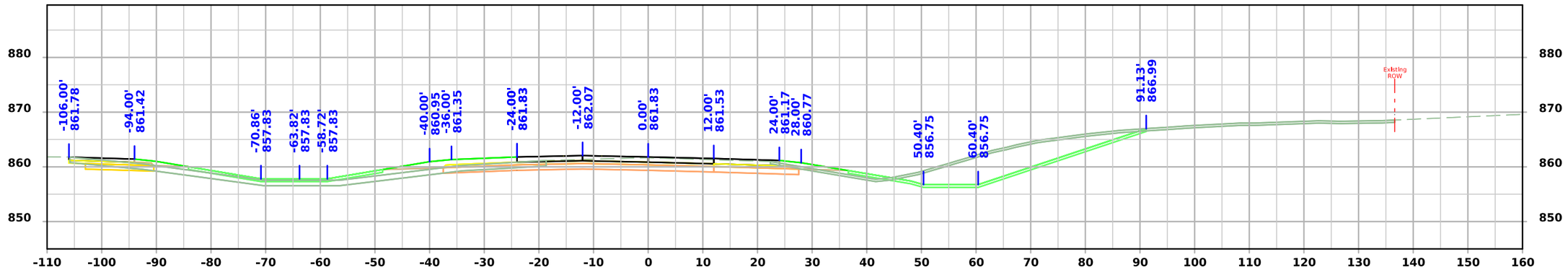
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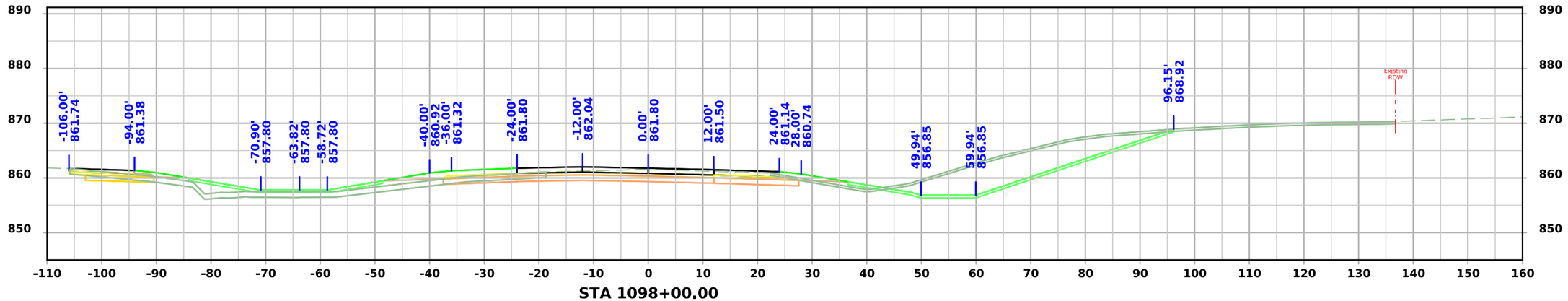
ML - I35 NB



STA 1099+00.00



STA 1098+50.00

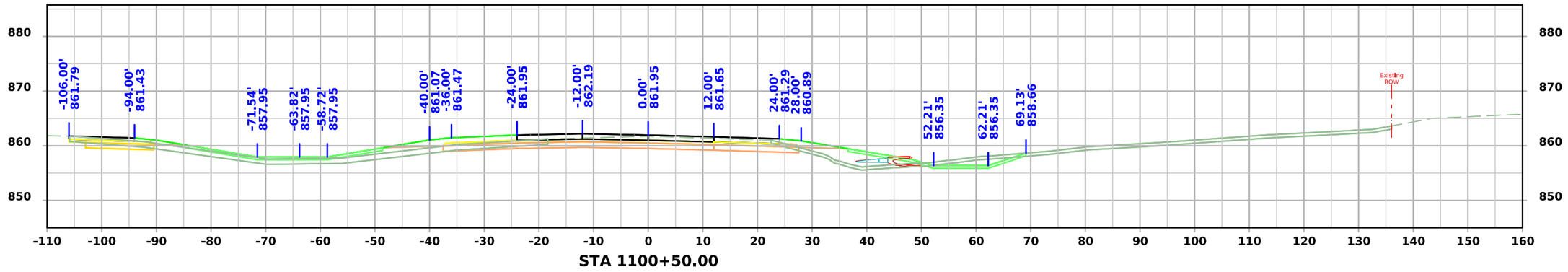


STA 1098+00.00

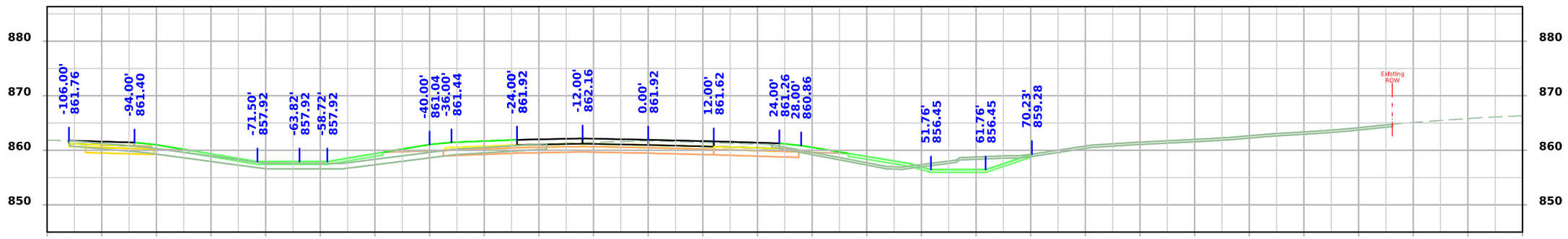
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.18

10:00:12 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

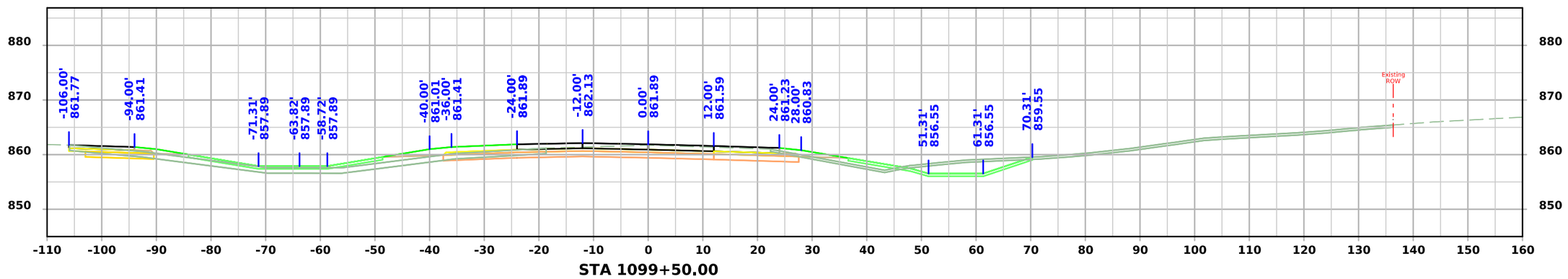
ML - I35 NB



STA 1100+50.00



STA 1100+00.00

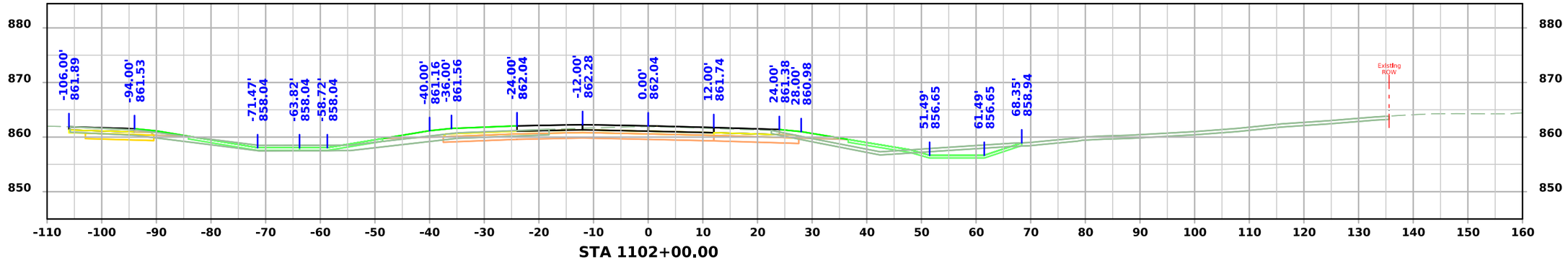


STA 1099+50.00

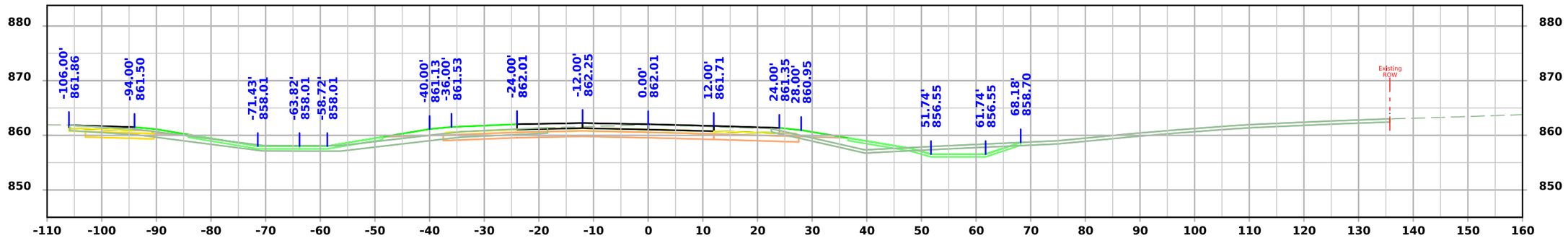
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10:00:15 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

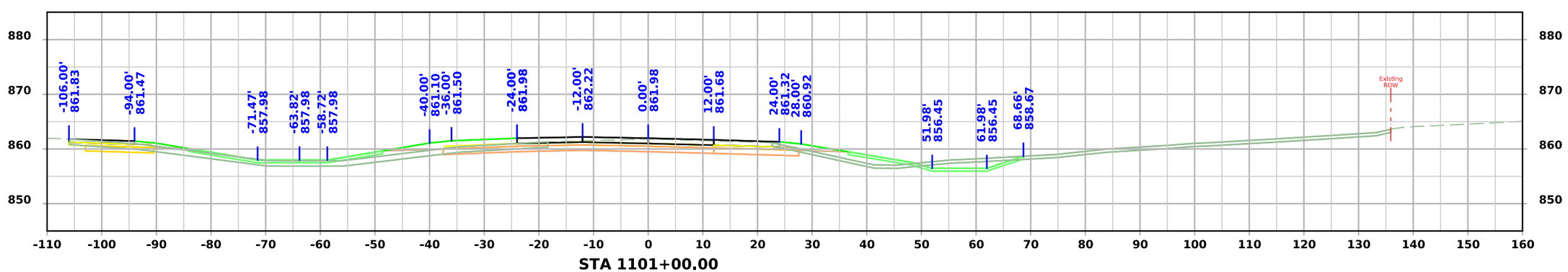
ML - I35 NB



STA 1102+00.00



STA 1101+50.00

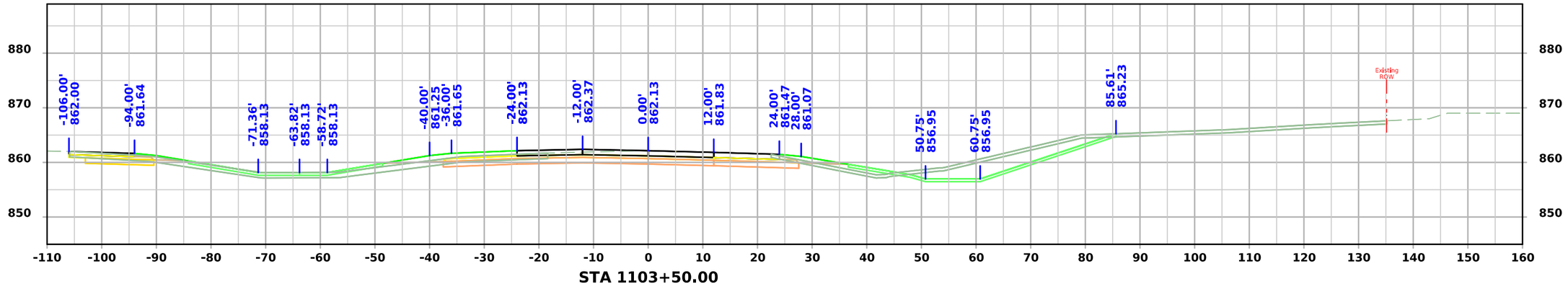


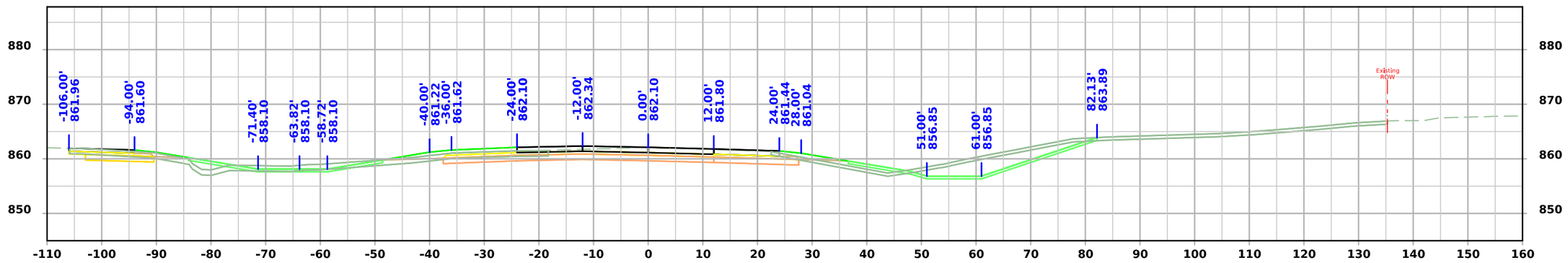
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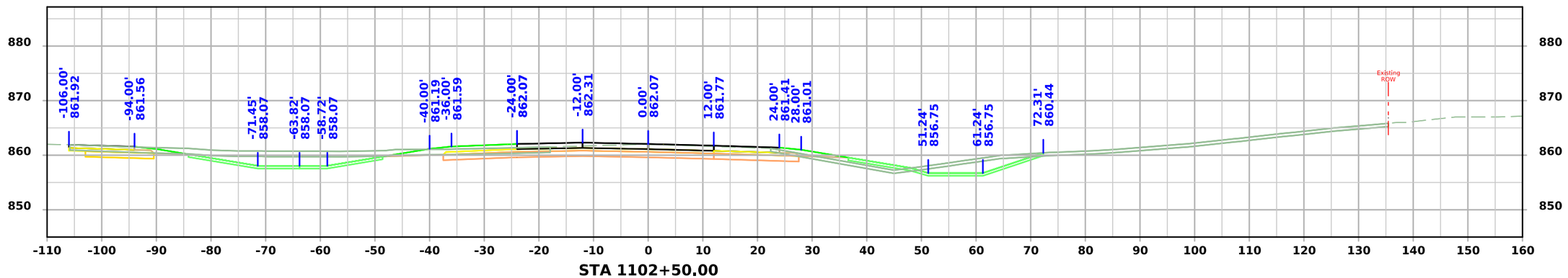
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.20

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ML - I35 NB



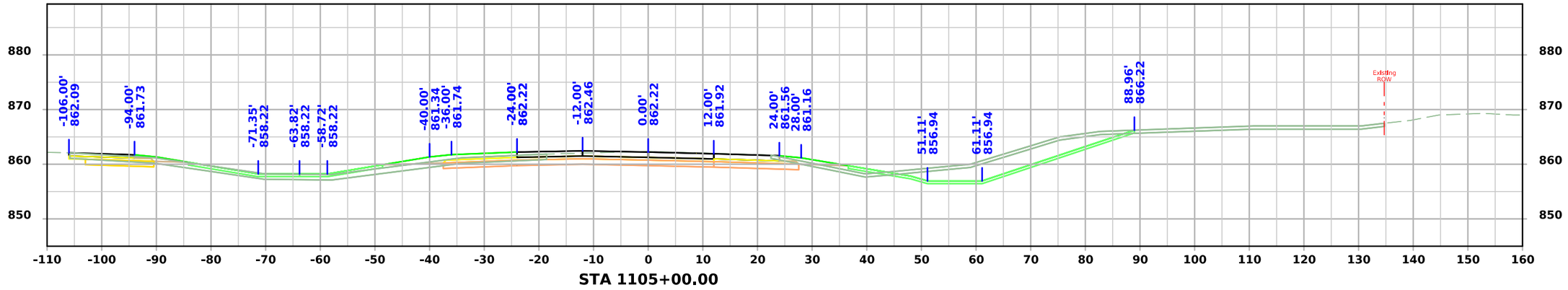




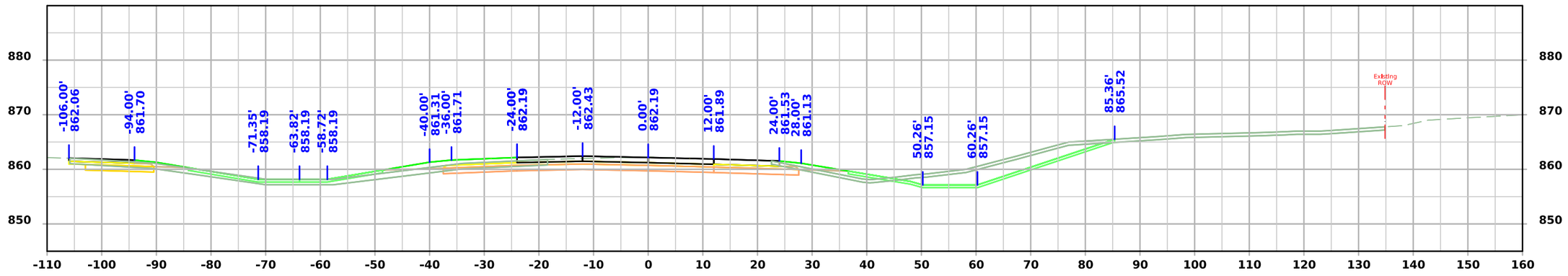
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.21

10:00:20 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

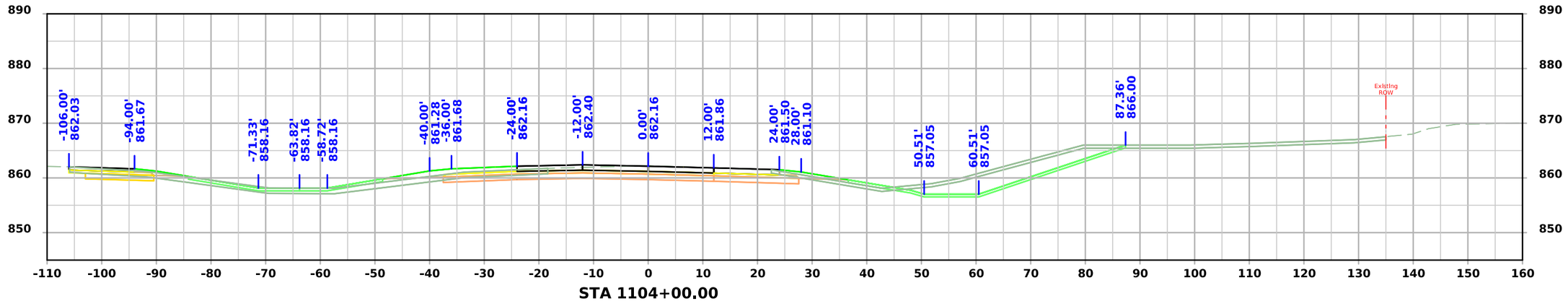
ML - I35 NB



STA 1105+00.00



STA 1104+50.00

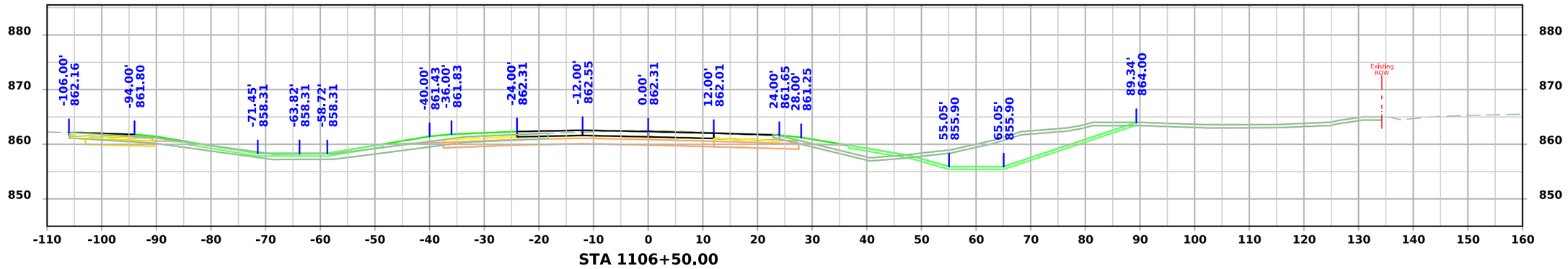


STA 1104+00.00

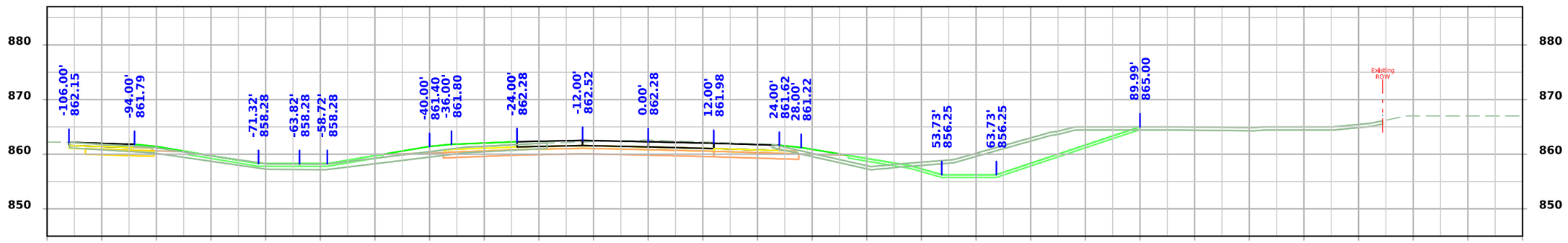
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.22

10:00:23 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

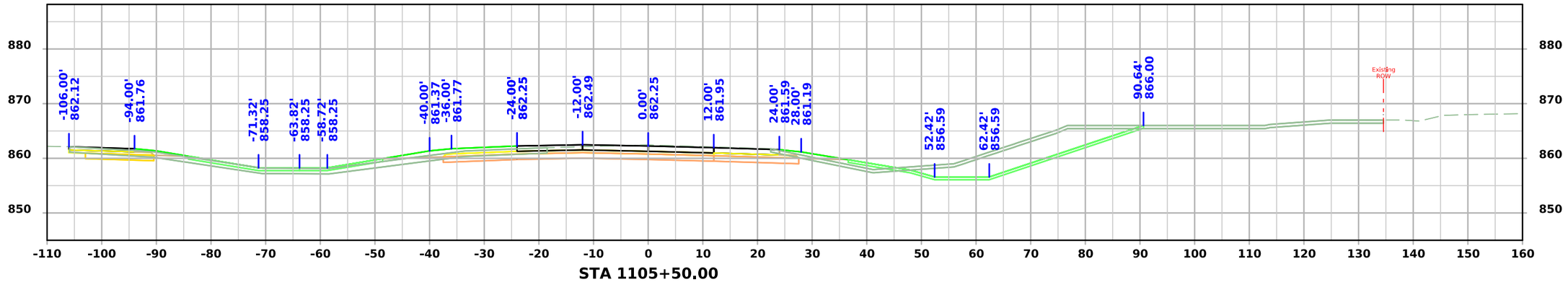
ML - I35 NB



STA 1106+50.00



STA 1106+00.00

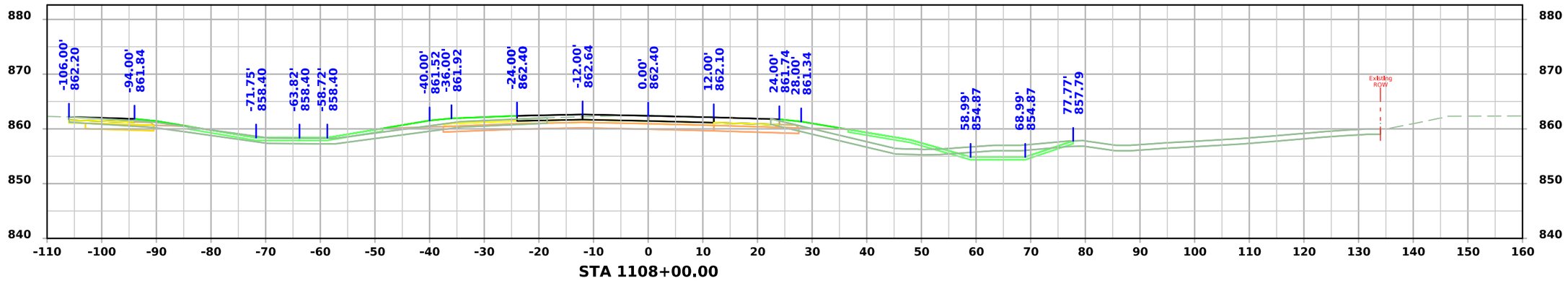


STA 1105+50.00

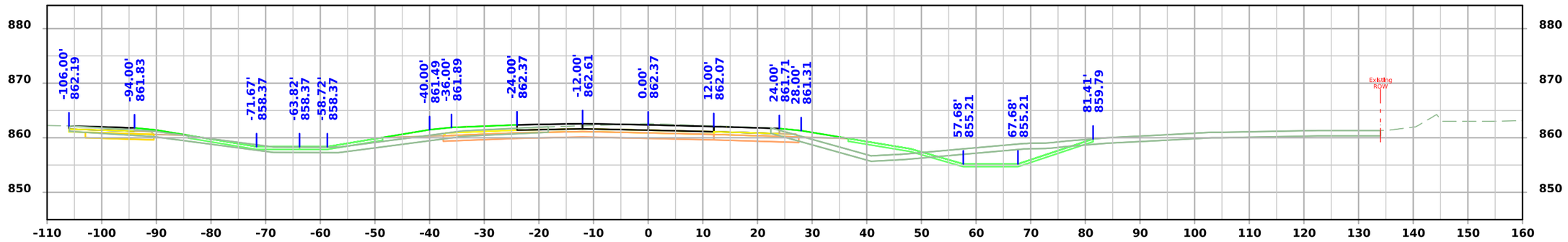
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.23

10:00:25 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

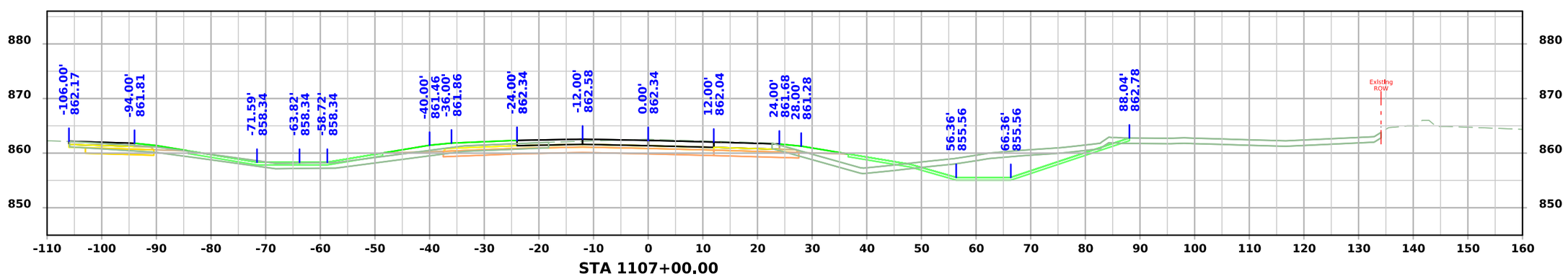
ML - I35 NB



STA 1108+00.00



STA 1107+50.00

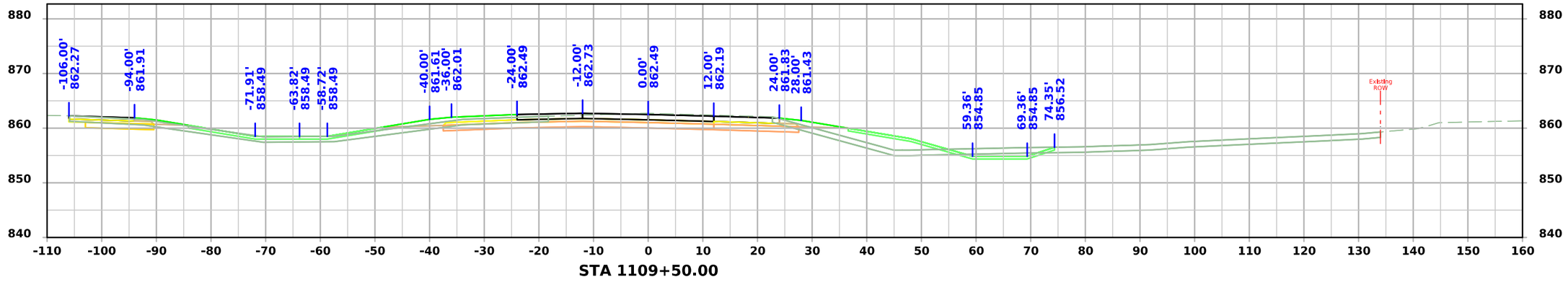


STA 1107+00.00

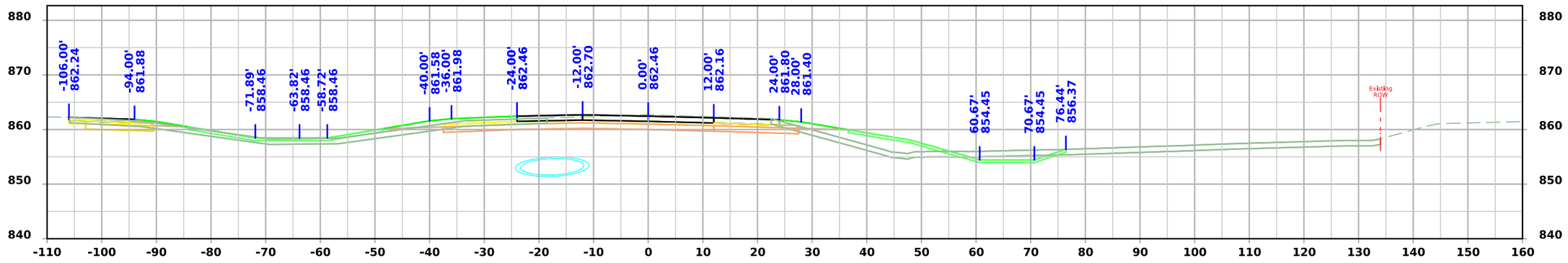
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10:00:28 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

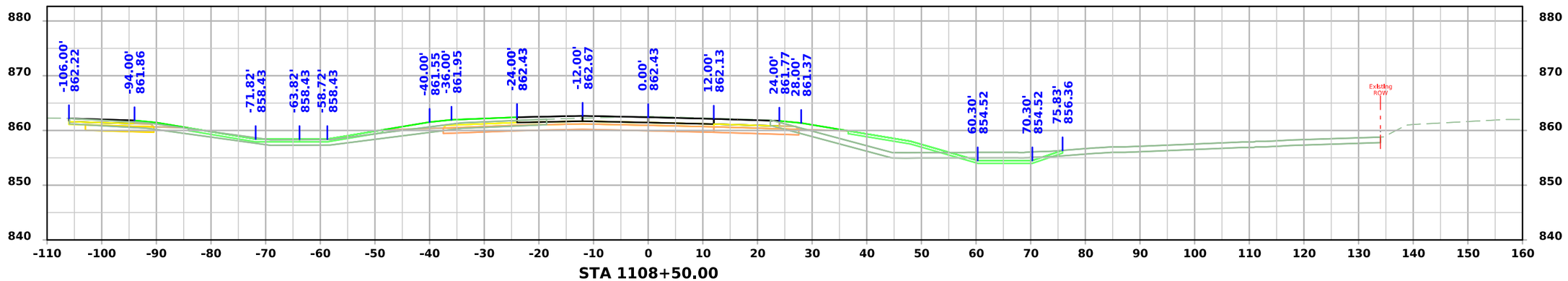
ML - I35 NB



STA 1109+50.00



STA 1109+00.00

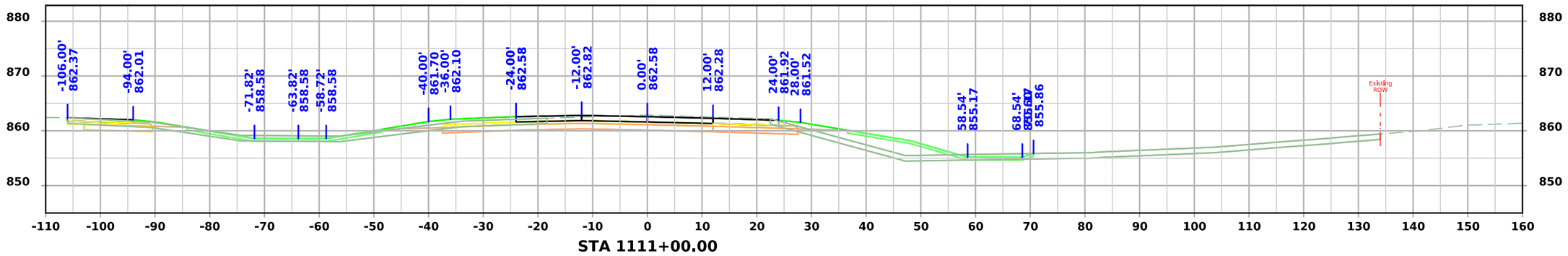


STA 1108+50.00

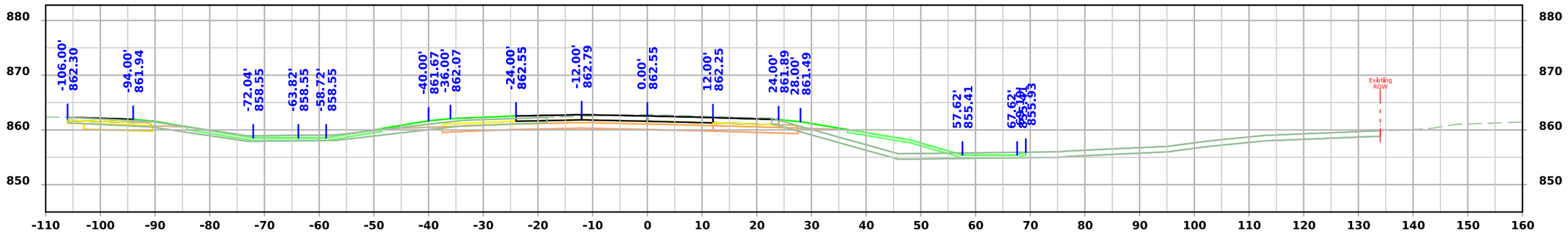
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.25

10:00:30 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

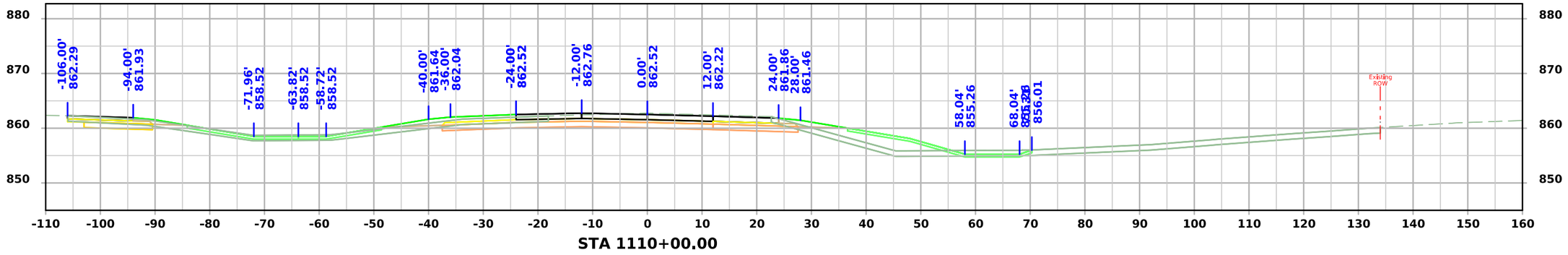
ML - I35 NB



STA 1111+00.00



STA 1110+50.00

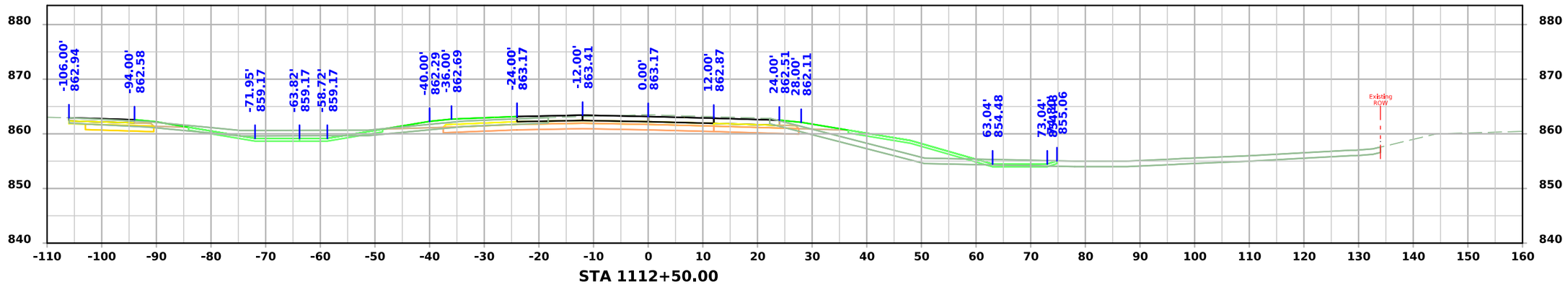


STA 1110+00.00

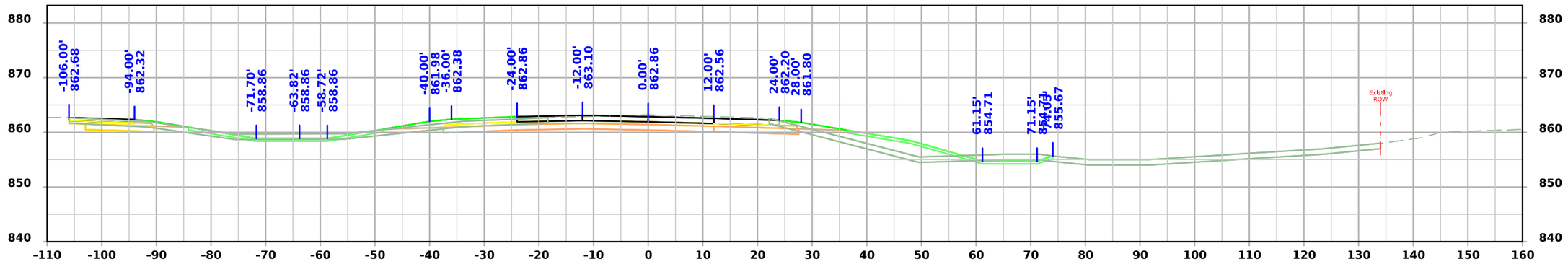
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.26

10:00:33 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

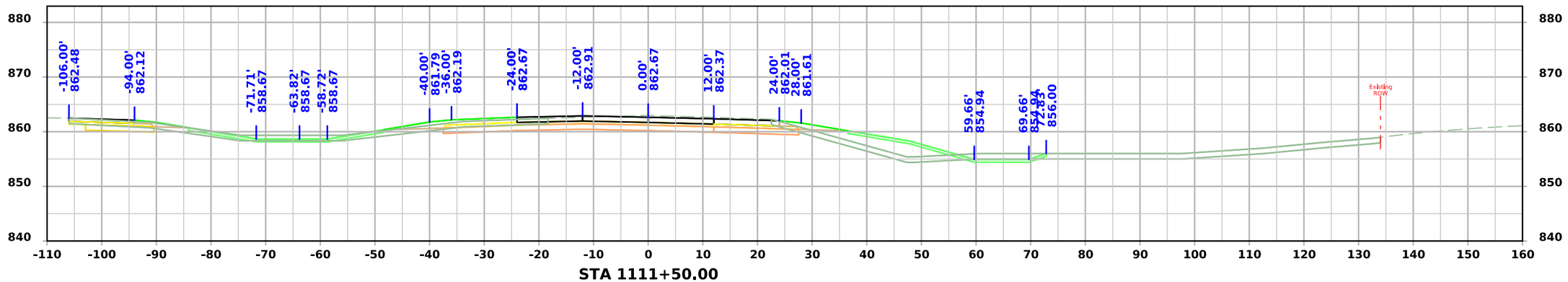
ML - I35 NB



STA 1112+50.00



STA 1112+00.00

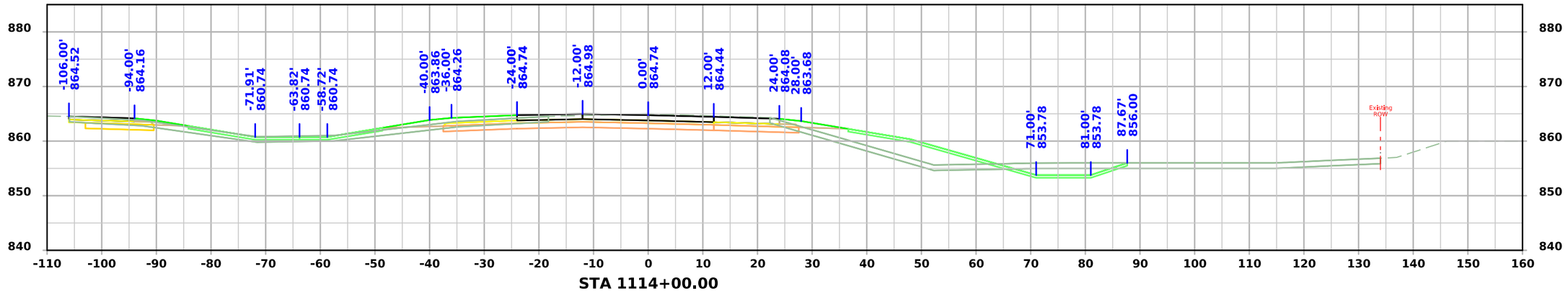


STA 1111+50.00

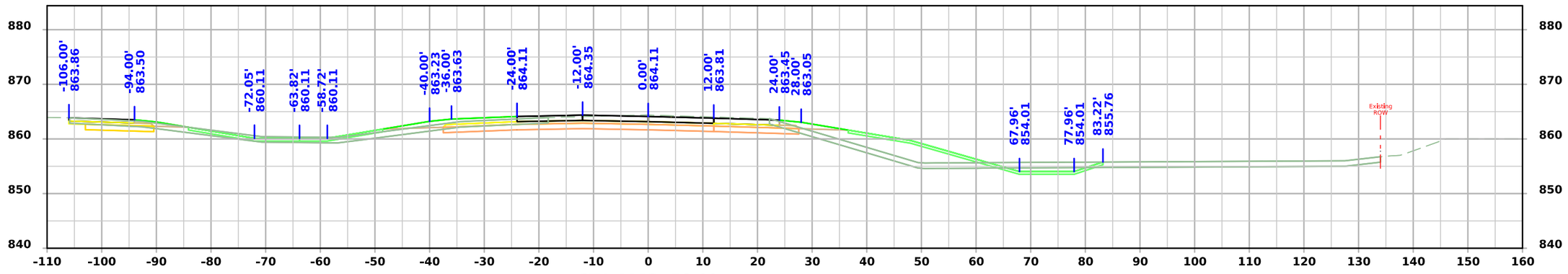
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10:00:35 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

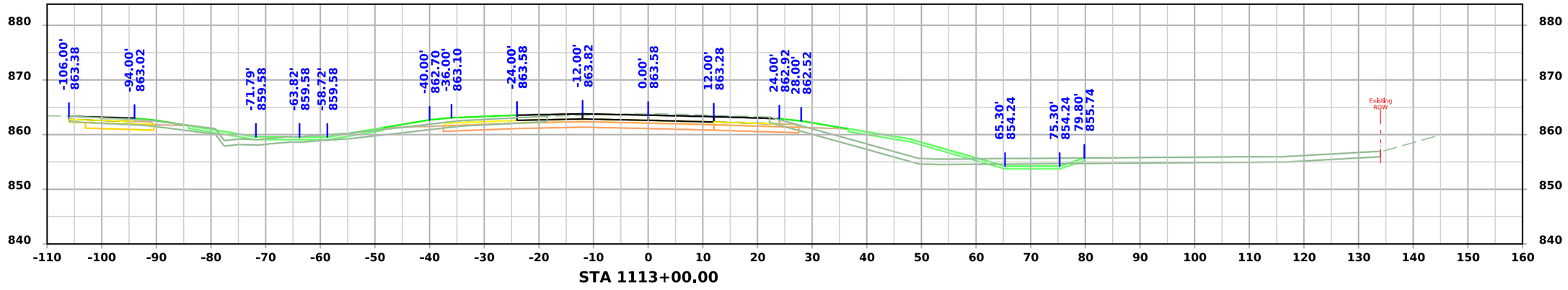
ML - I35 NB



STA 1114+00.00



STA 1113+50.00

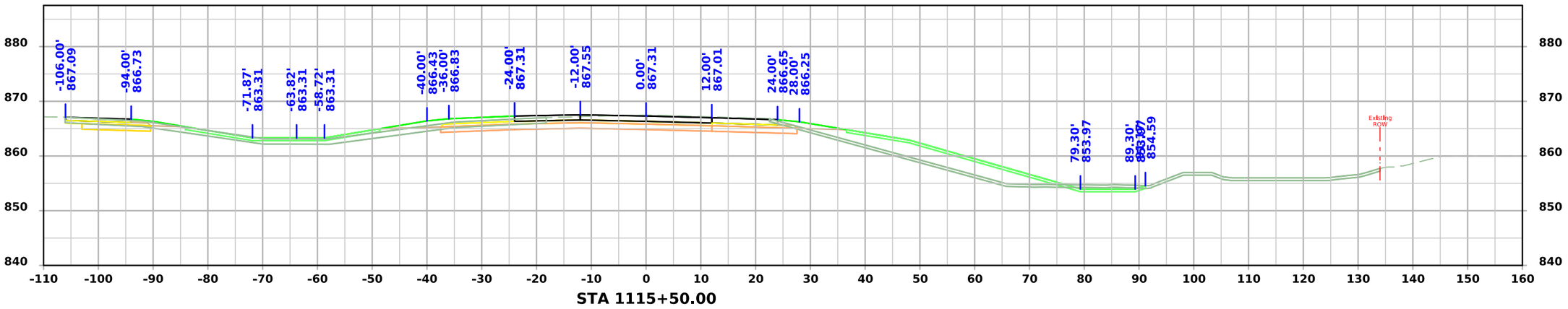


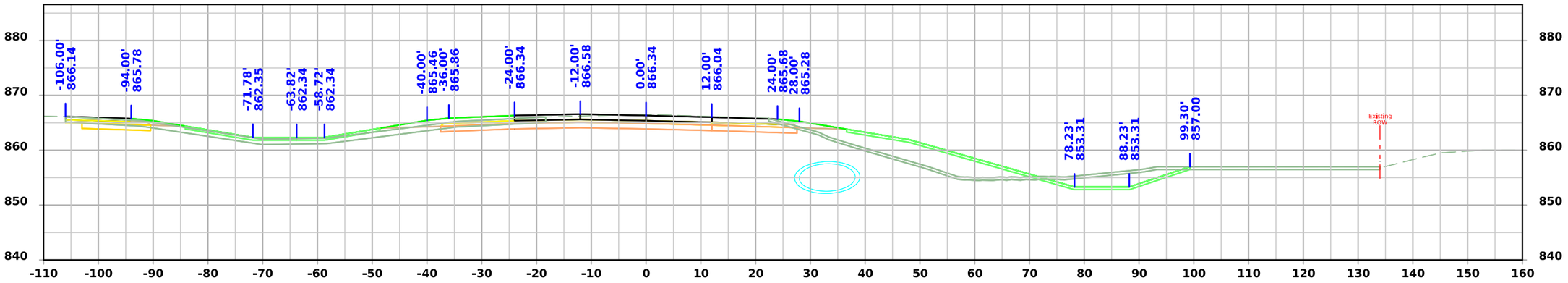
STA 1113+00.00

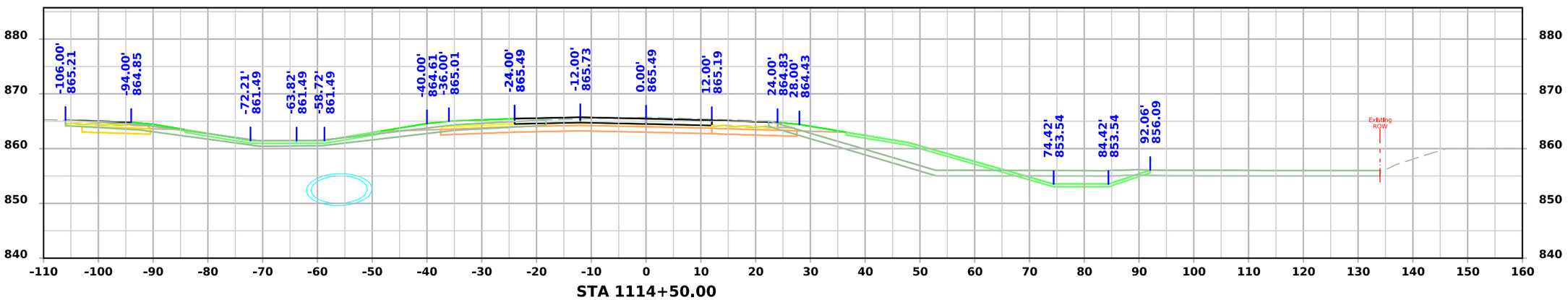
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.28

10:00:38 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



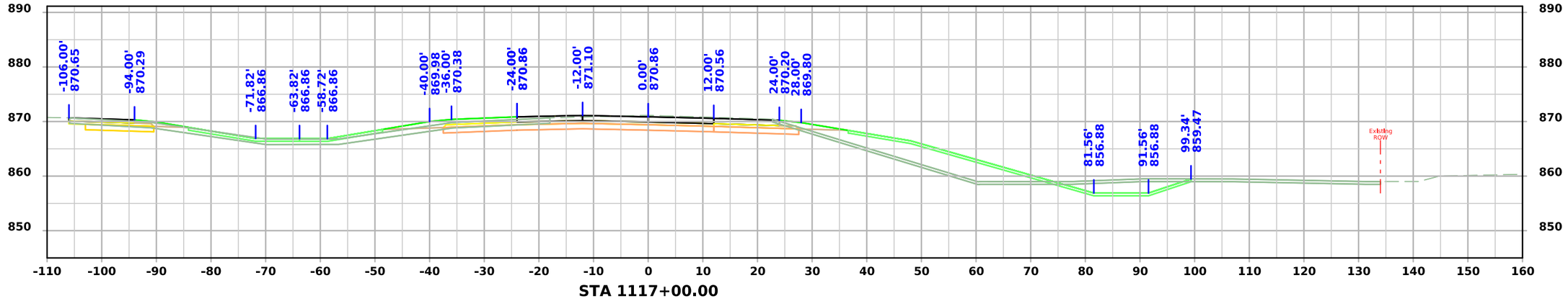




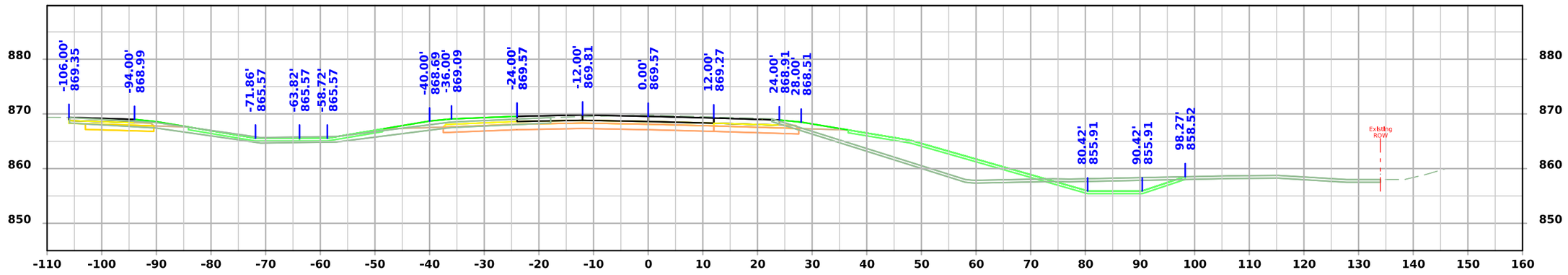
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10:00:40 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

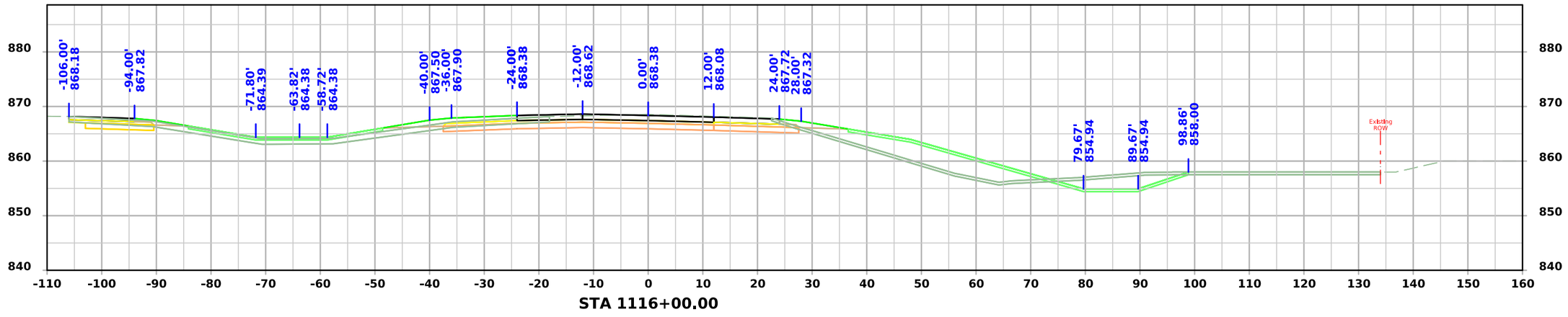
ML - I35 NB



STA 1117+00.00



STA 1116+50.00

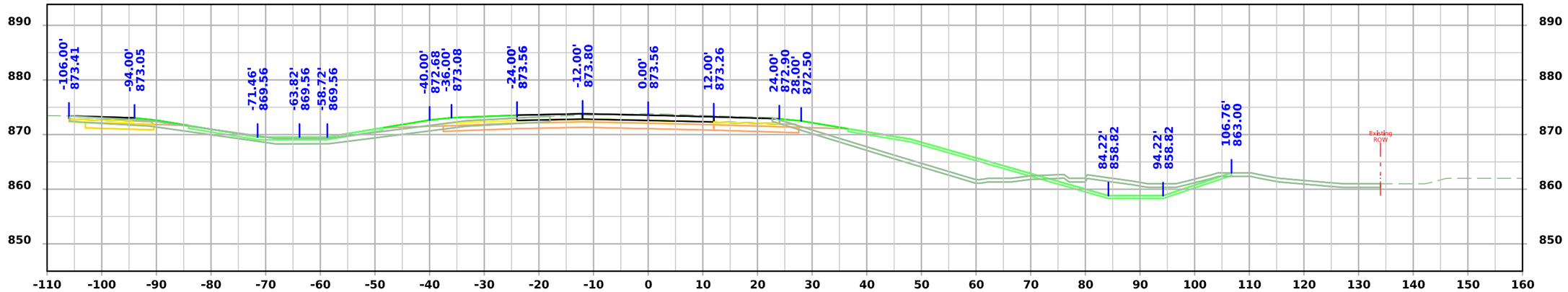


STA 1116+00.00

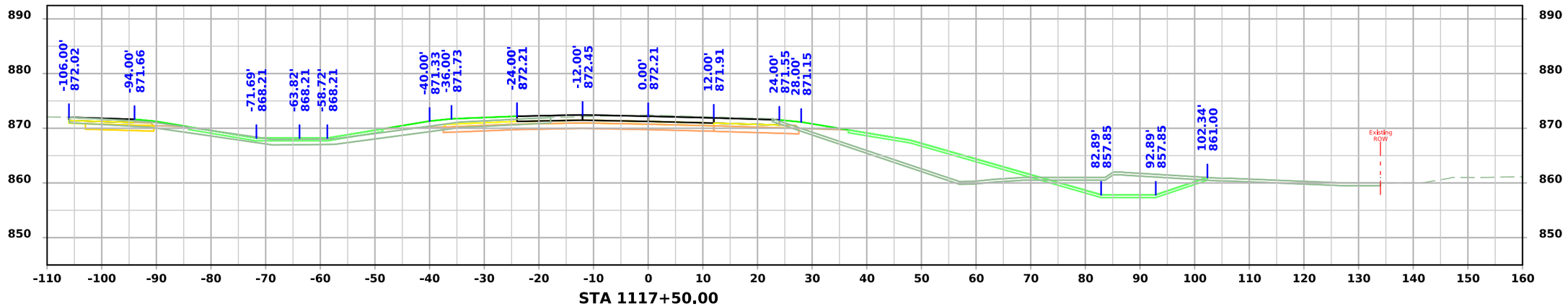
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10:00:43 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1118+00.00

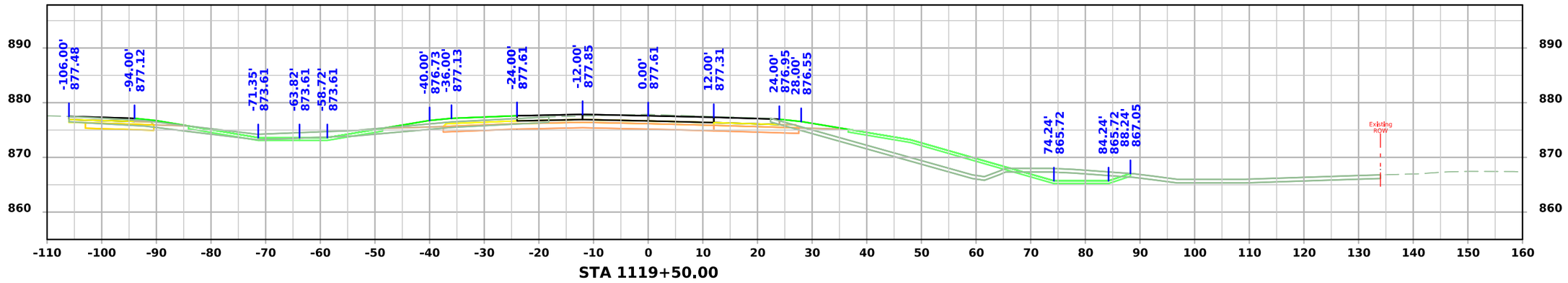


STA 1117+50.00

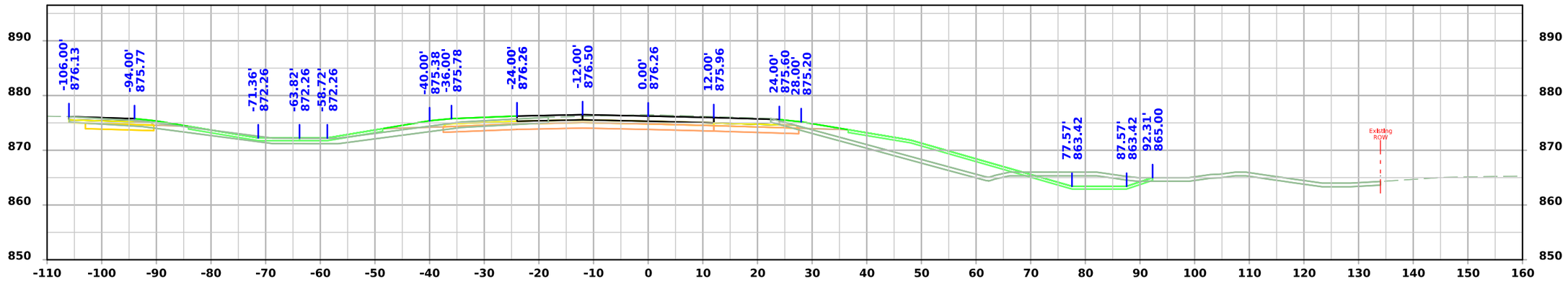
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10:00:45 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

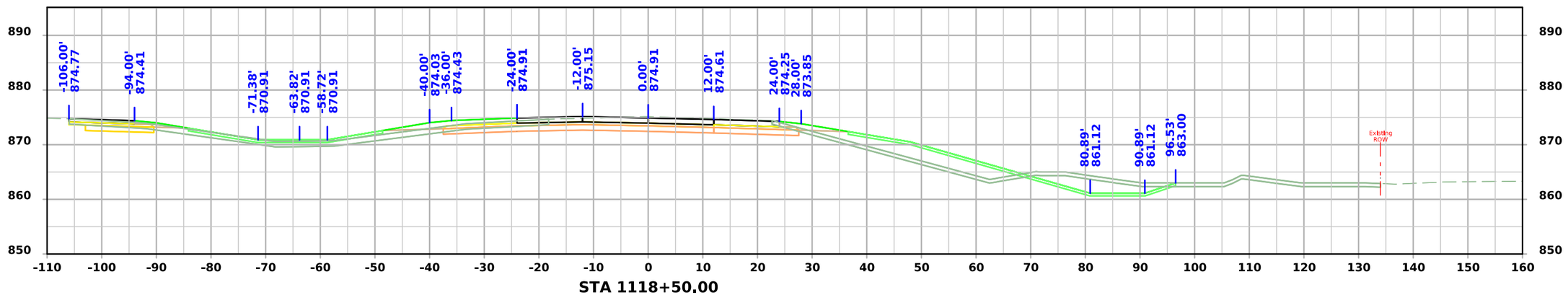
ML - I35 NB



STA 1119+50.00



STA 1119+00.00

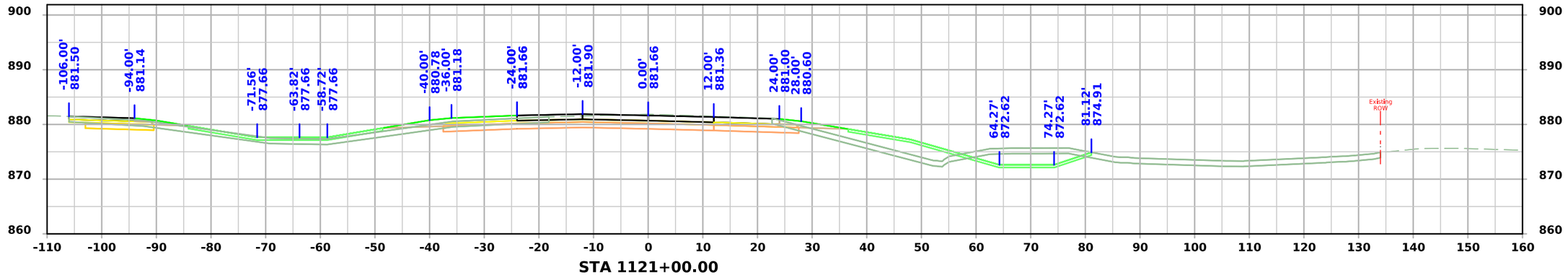


STA 1118+50.00

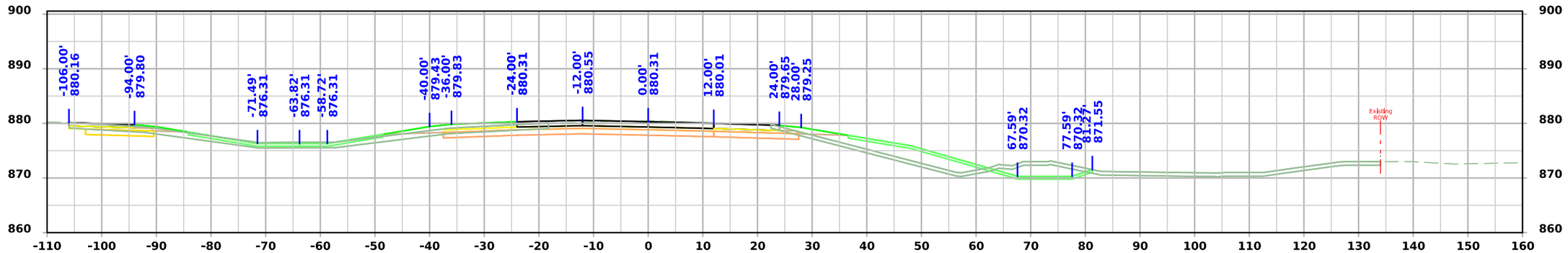
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10:00:47 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

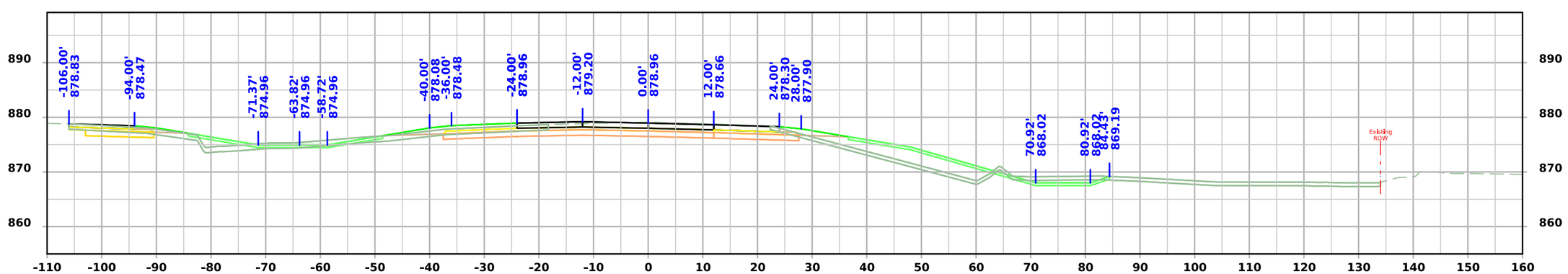
ML - I35 NB



STA 1121+00.00



STA 1120+50.00

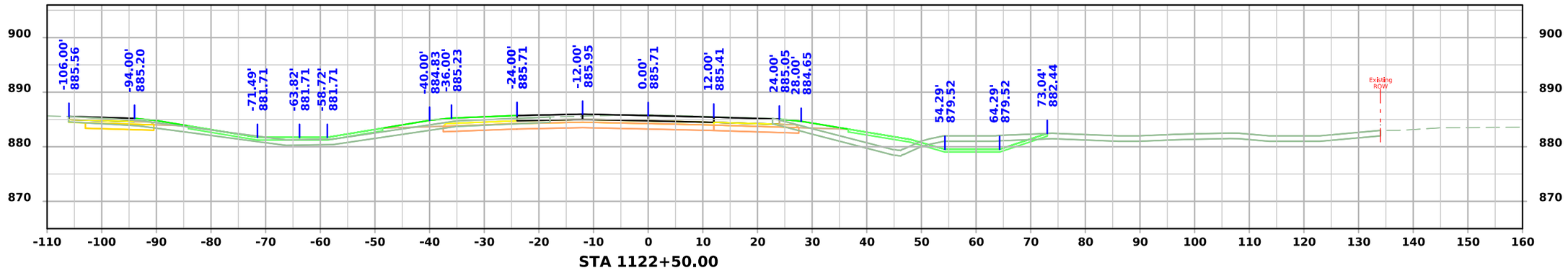


STA 1120+00.00

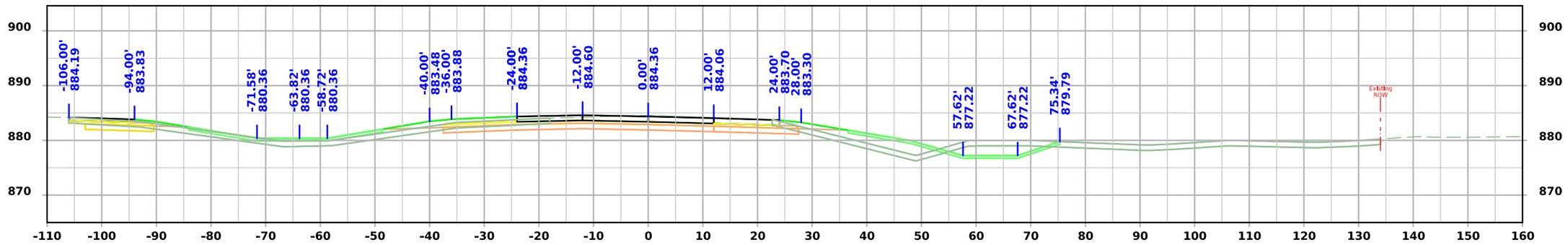
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10:00:50 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

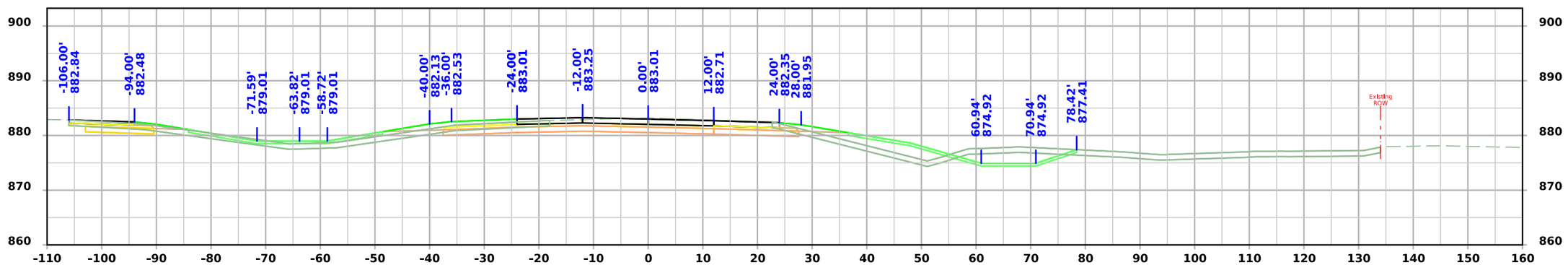
ML - I35 NB



STA 1122+50.00



STA 1122+00.00

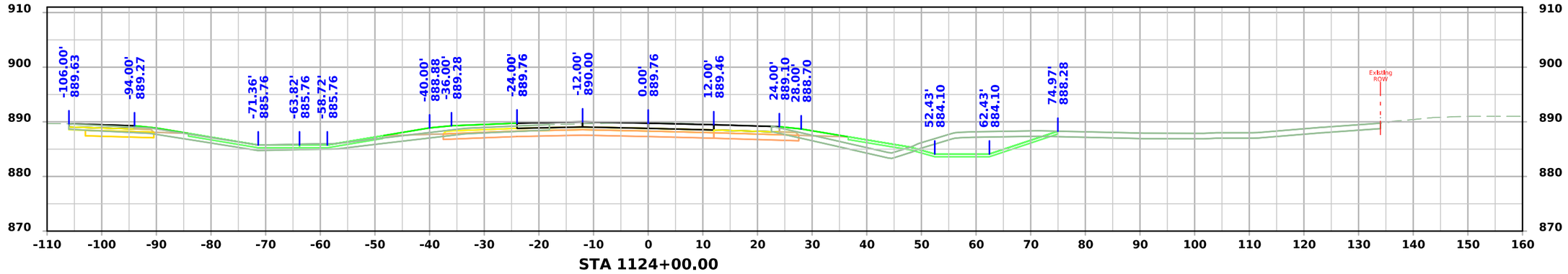


STA 1121+50.00

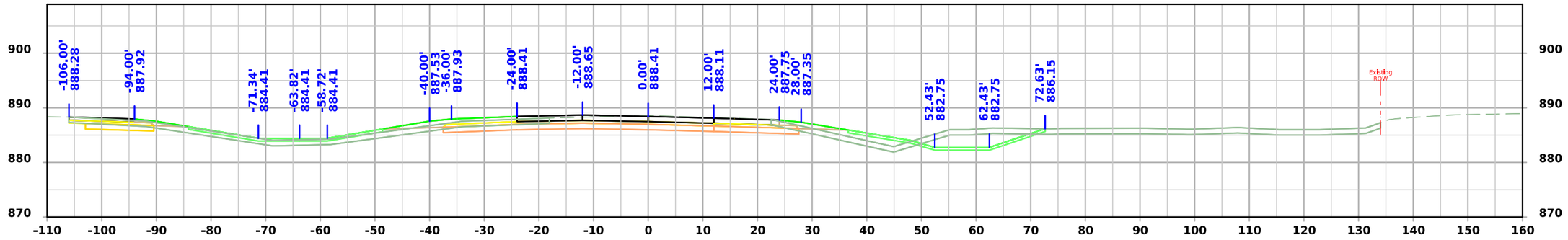
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10:00:53 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

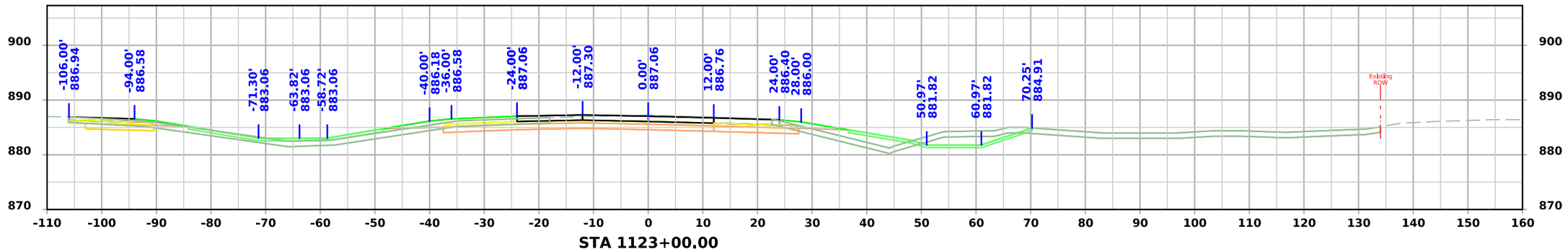
ML - I35 NB



STA 1124+00.00



STA 1123+50.00

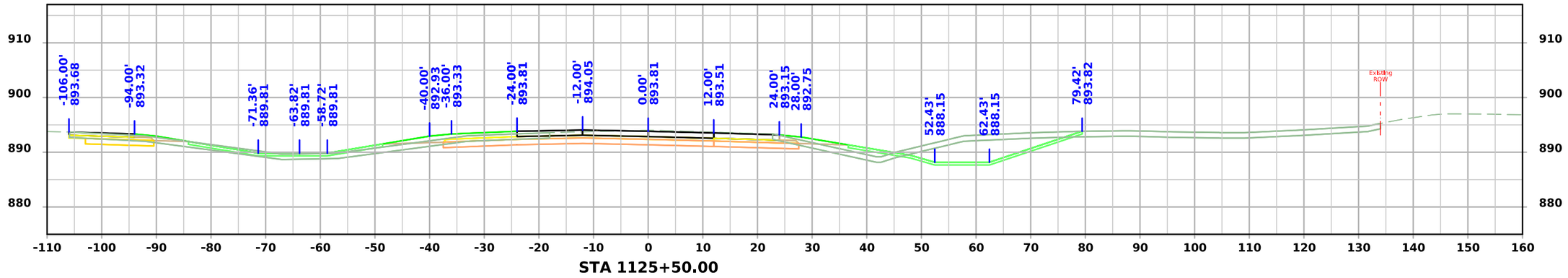


STA 1123+00.00

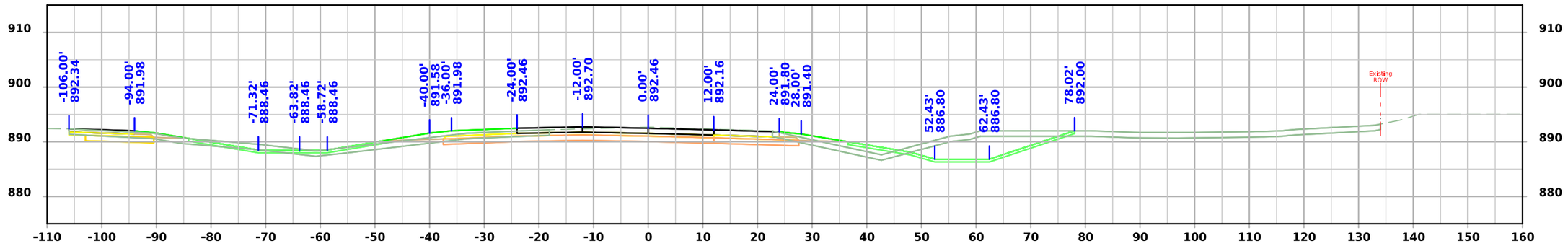
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.35

10:00:55 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

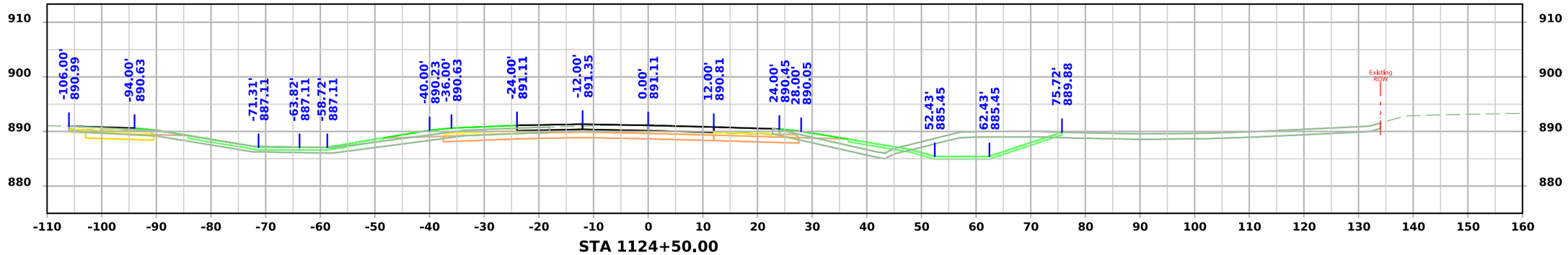
ML - I35 NB



STA 1125+50.00



STA 1125+00.00

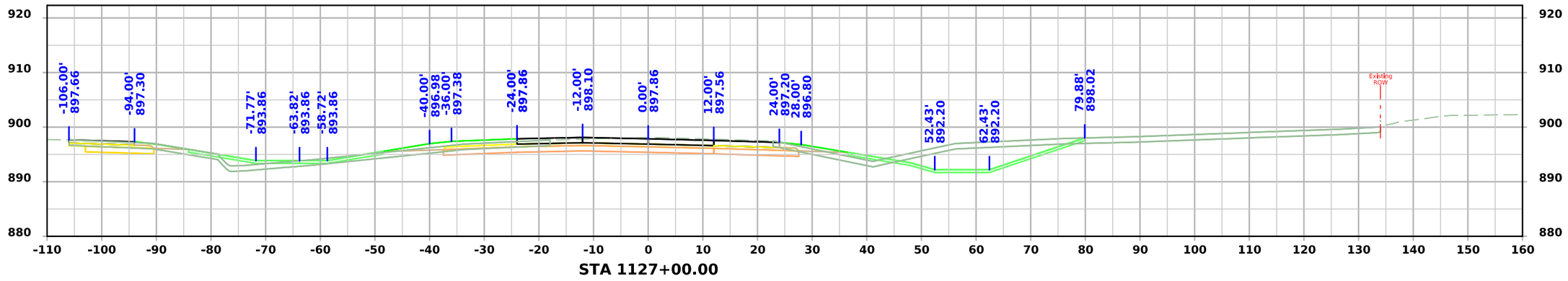


STA 1124+50.00

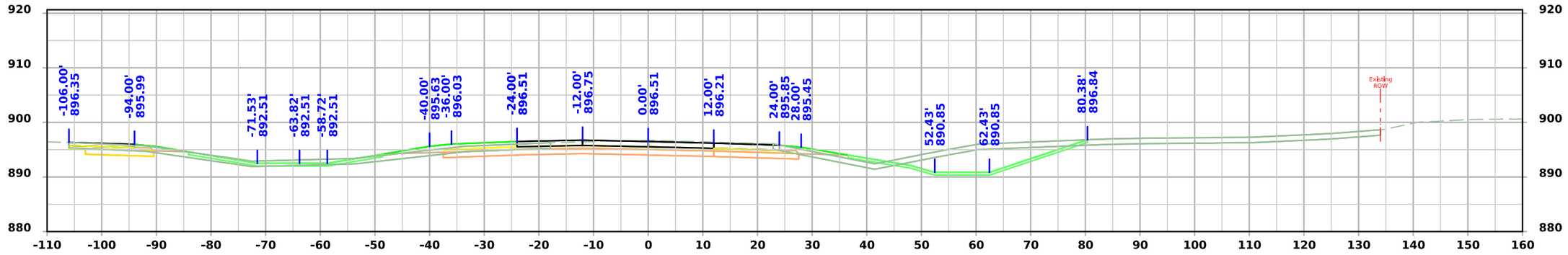
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.36

10:00:58 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

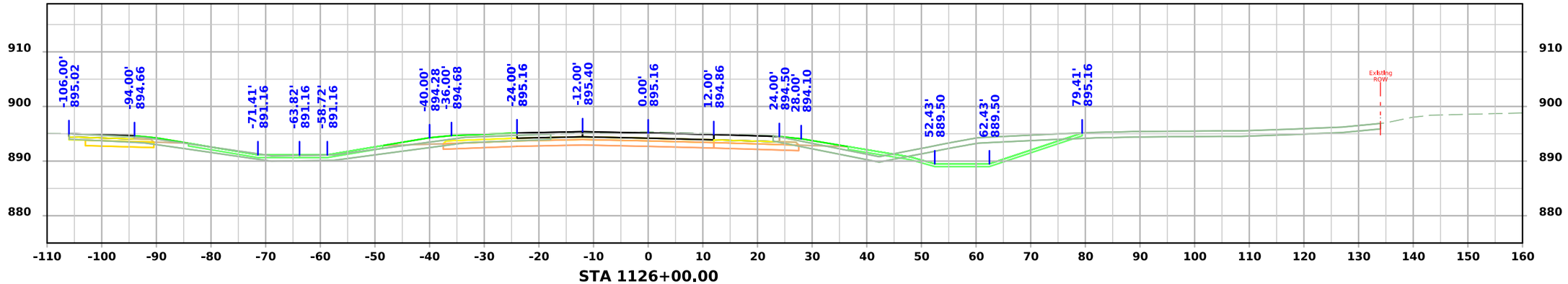
ML - I35 NB



STA 1127+00.00



STA 1126+50.00

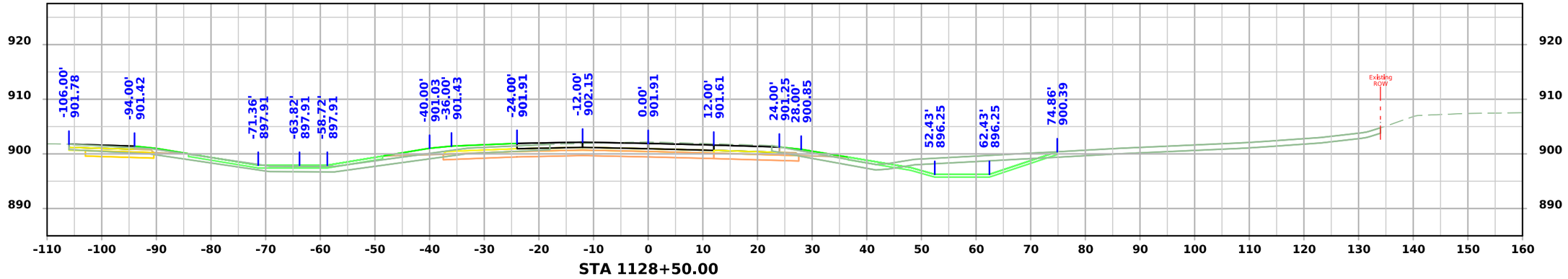


STA 1126+00.00

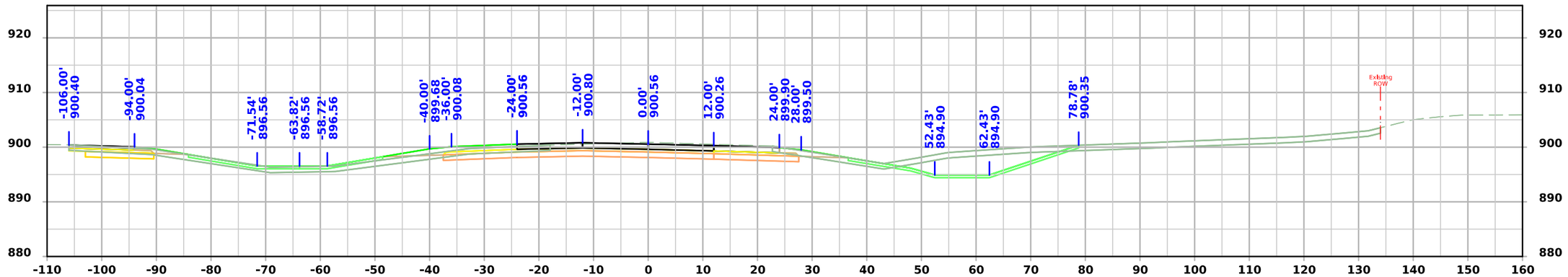
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.37

10:01:01 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

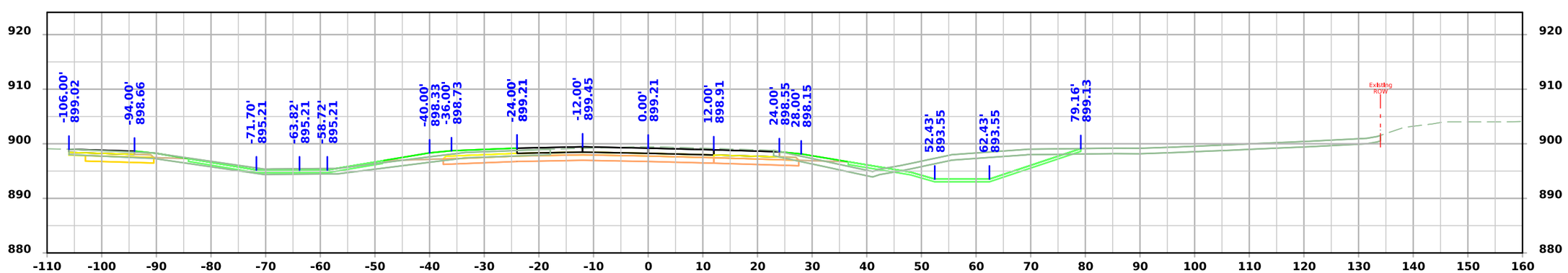
ML - I35 NB



STA 1128+50.00



STA 1128+00.00

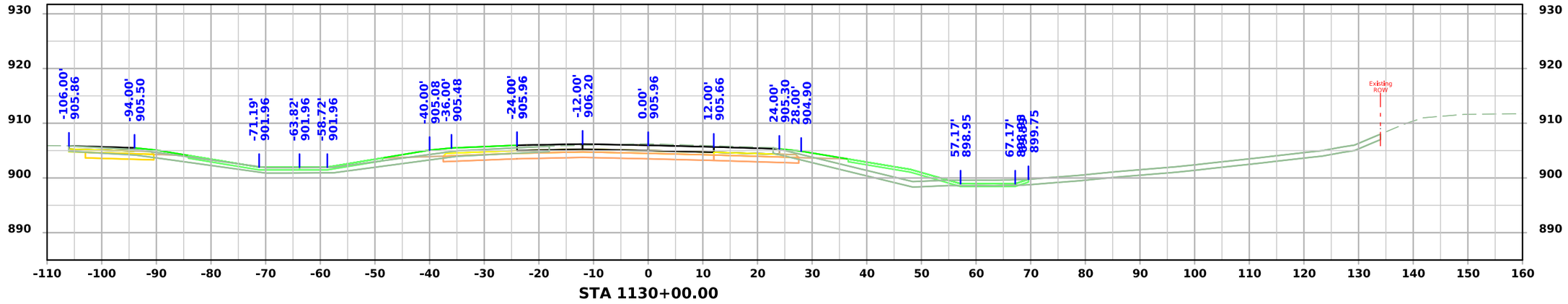


STA 1127+50.00

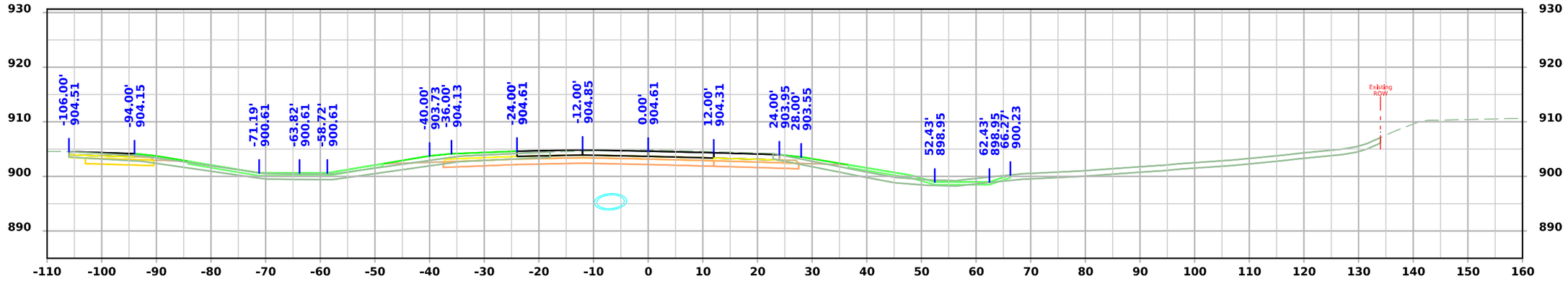
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.38

10:01:03 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

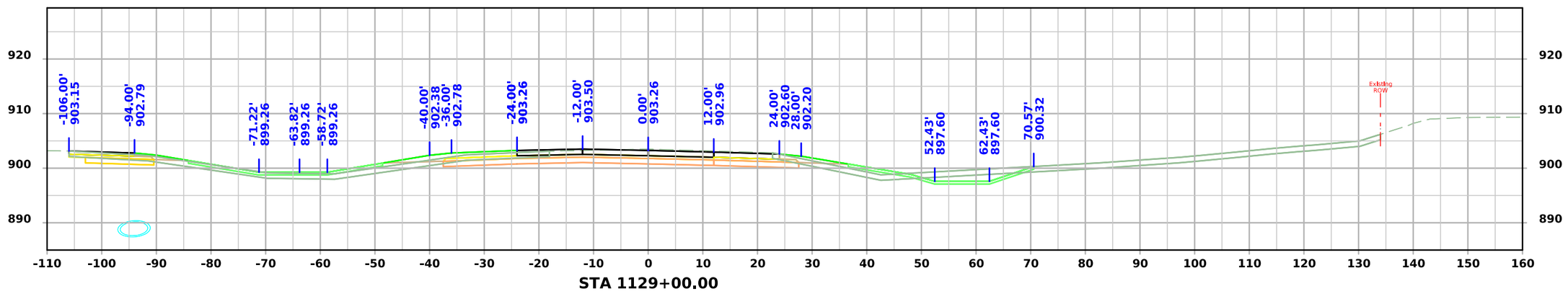
ML - I35 NB



STA 1130+00.00



STA 1129+50.00

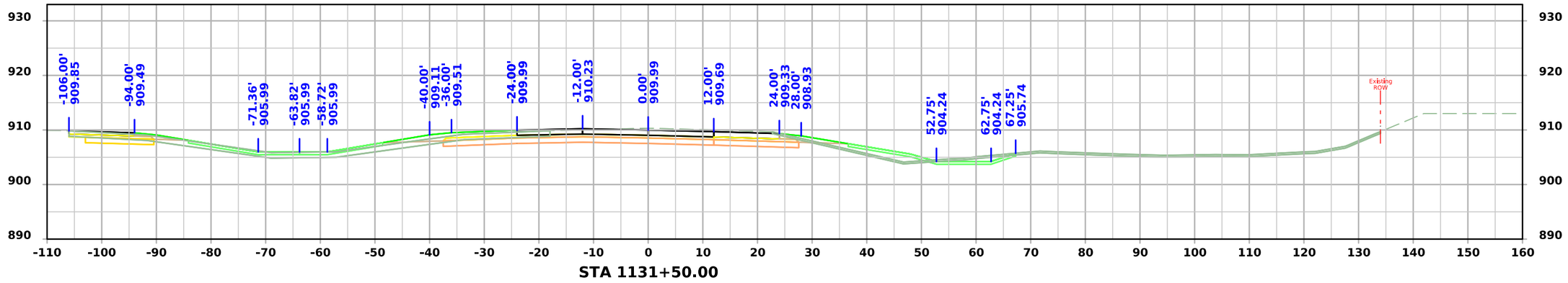


STA 1129+00.00

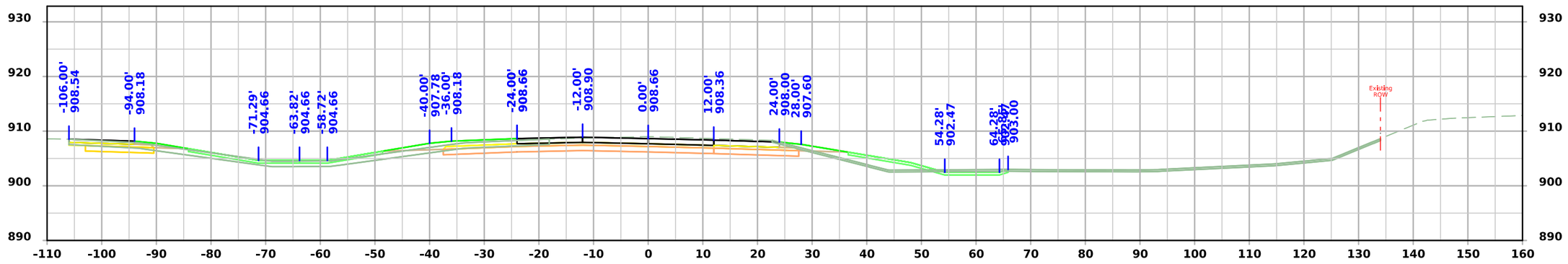
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.39

10:01:06 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

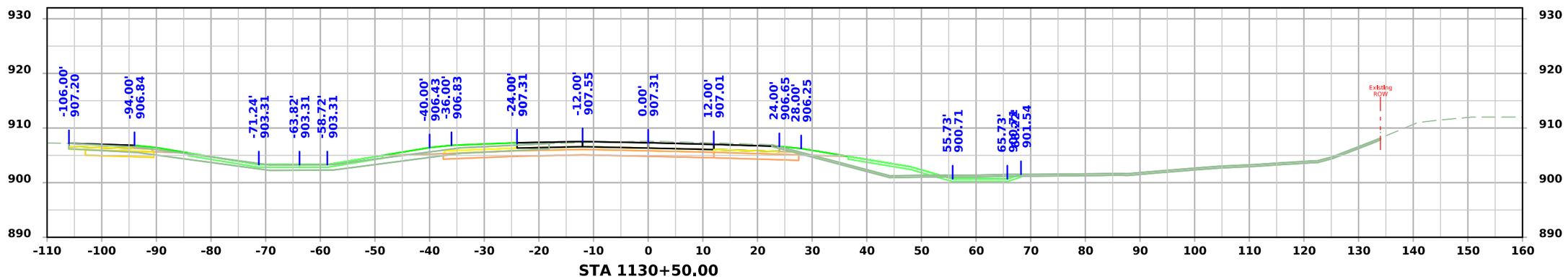
ML - I35 NB



STA 1131+50.00



STA 1131+00.00

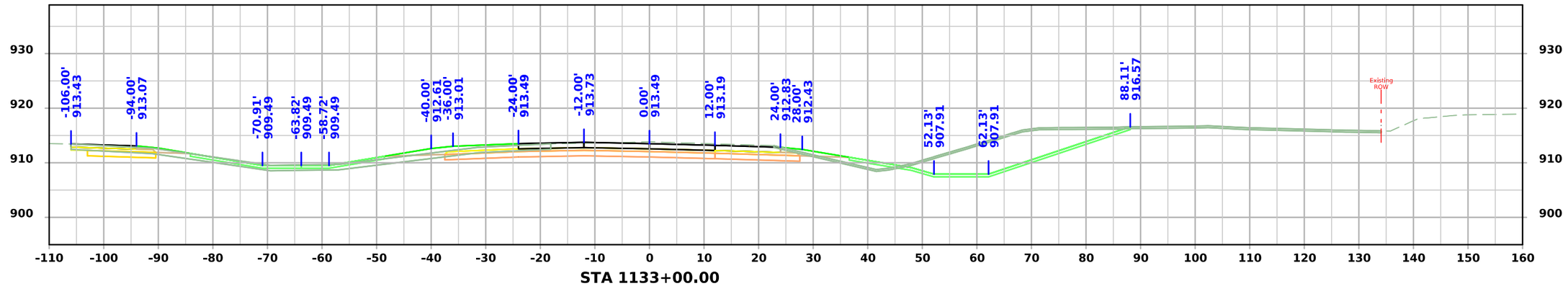


STA 1130+50.00

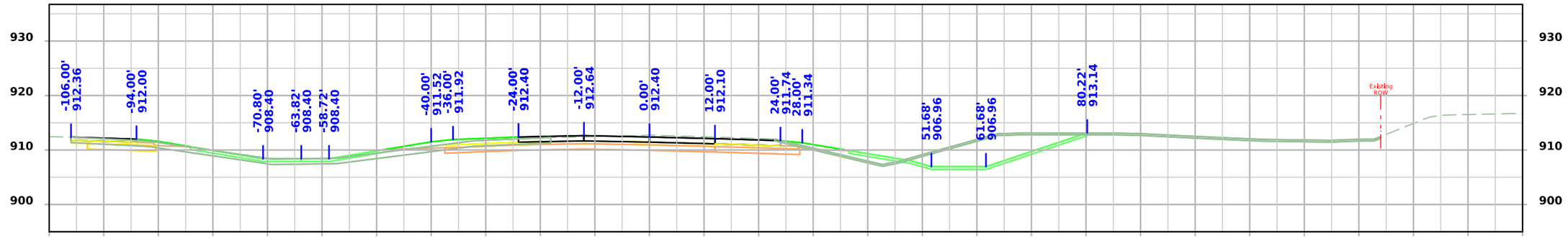
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.40

10:01:08 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

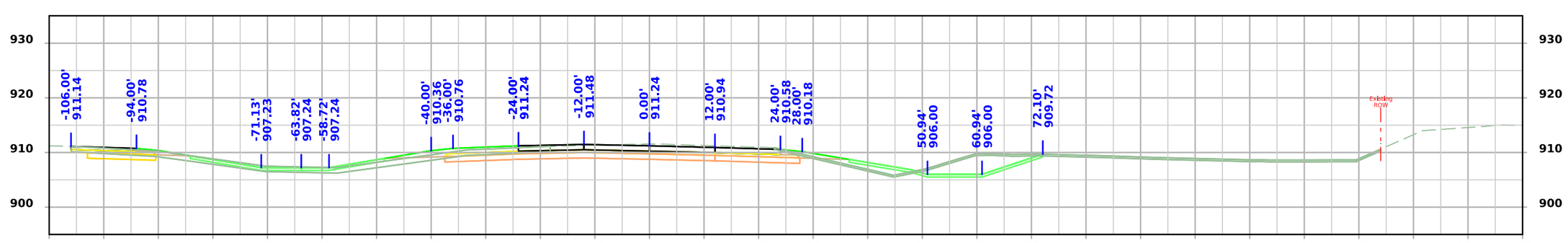
ML - I35 NB



STA 1133+00.00



STA 1132+50.00

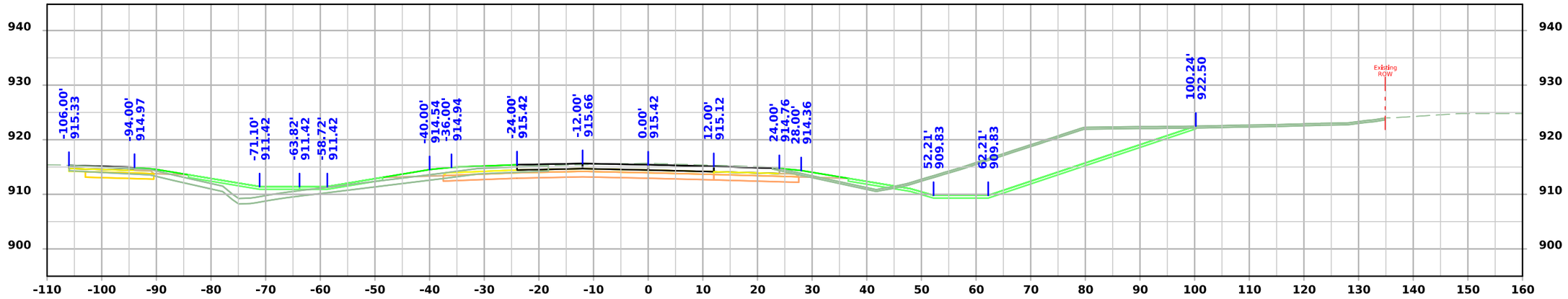


STA 1132+00.00

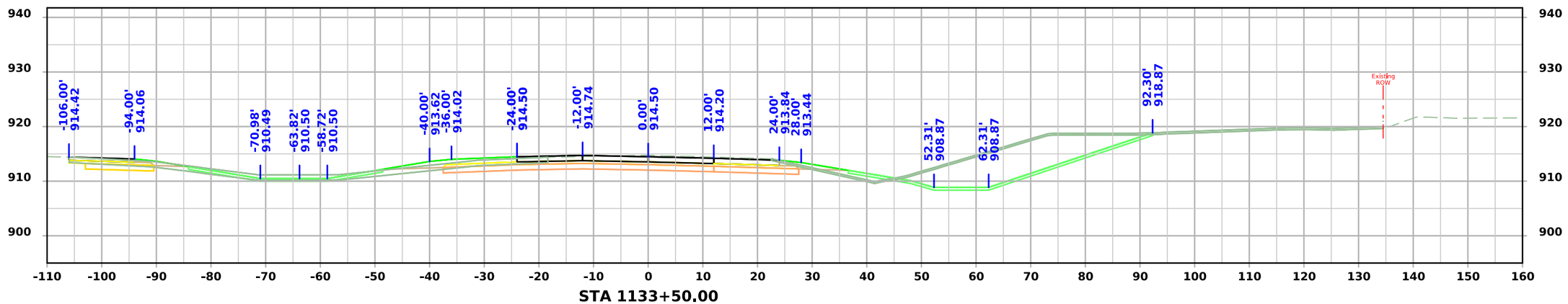
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.41

10:01:11 AM 7/8/2026 mkjartanson 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 1134+00.00

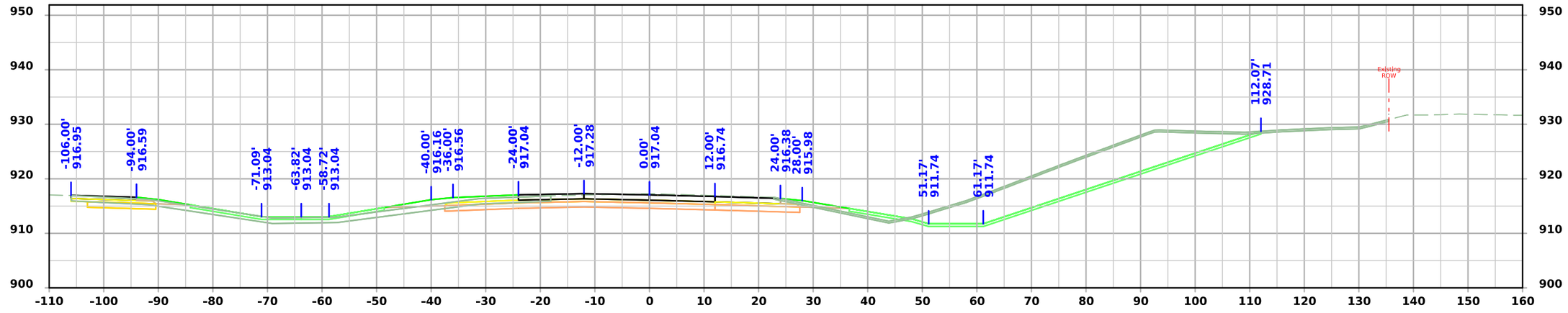


STA 1133+50.00

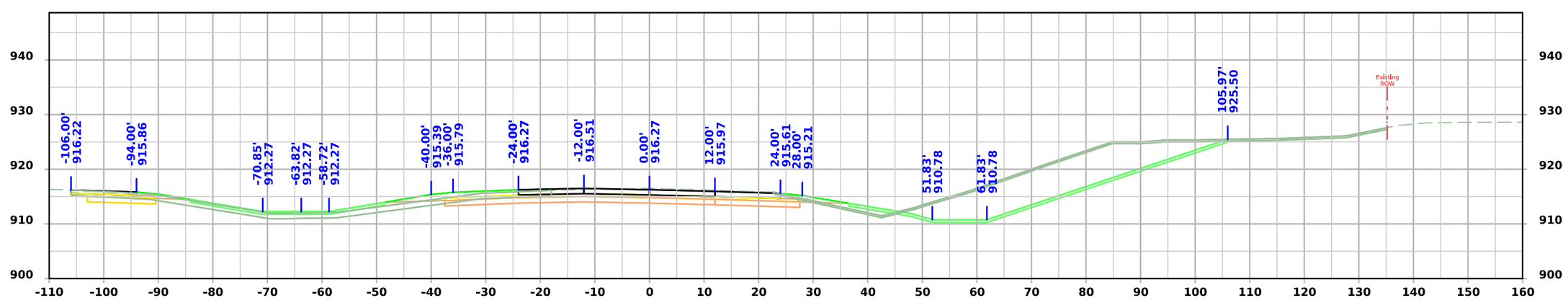
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.42

10:01:13 AM 7/8/2026 mkjartanson 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

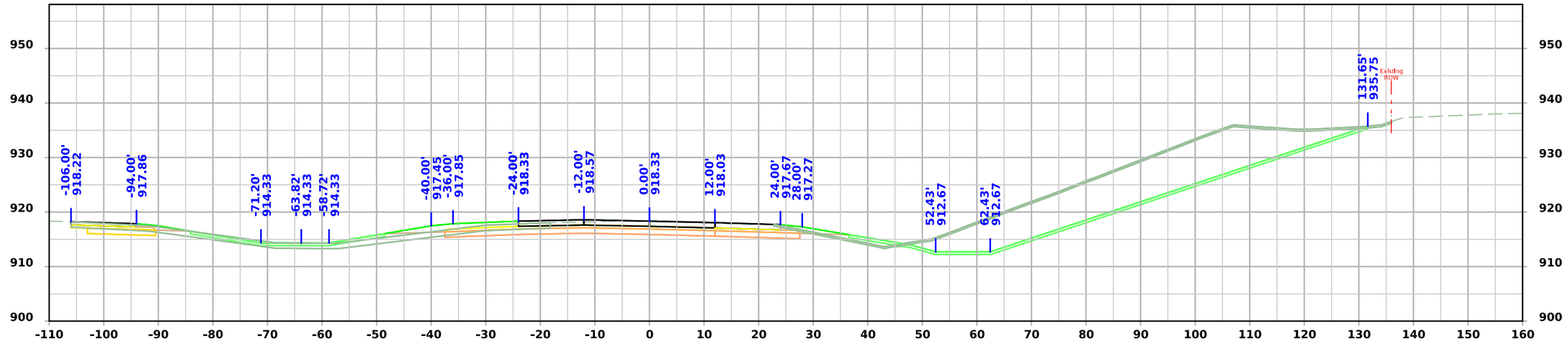


STA 1134+50.00

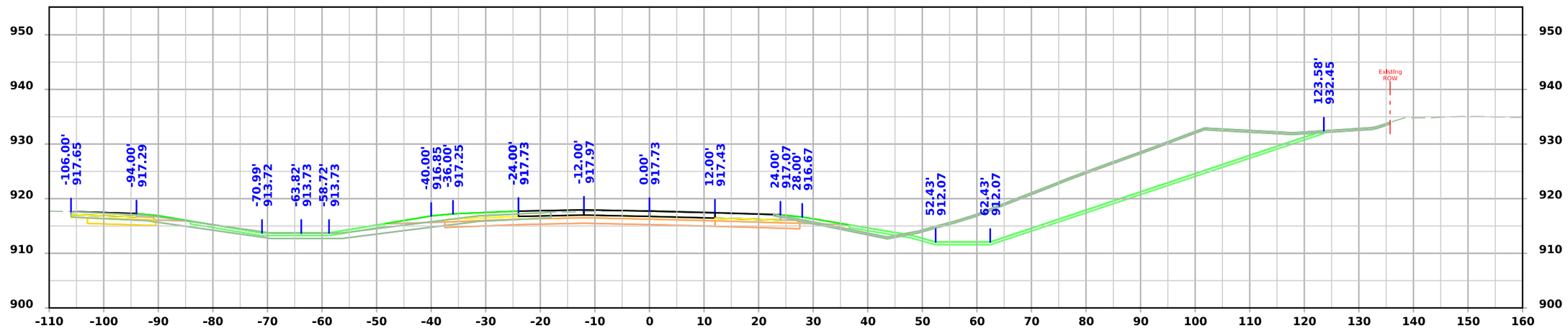
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.43

10:01:15 AM 7/8/2026 mkjartanson 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

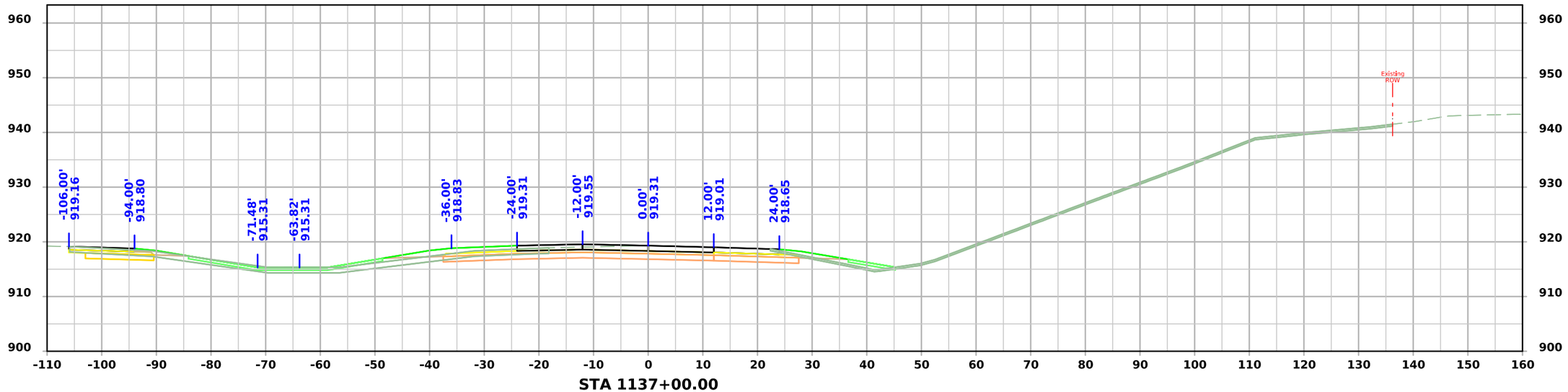


STA 1135+50.00

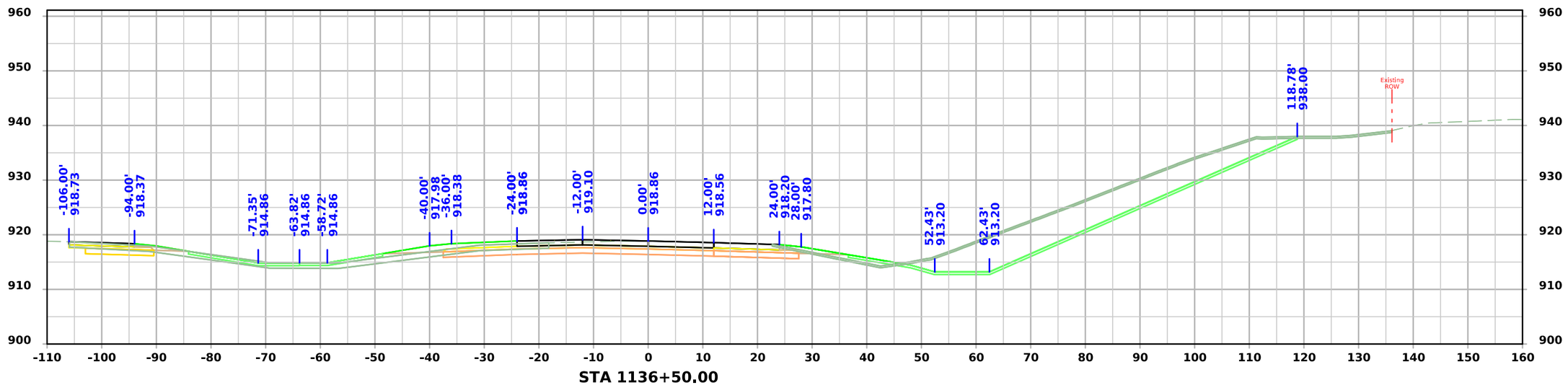
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.44

10:01:17 AM 7/8/2026 mkjartanson 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+00.00

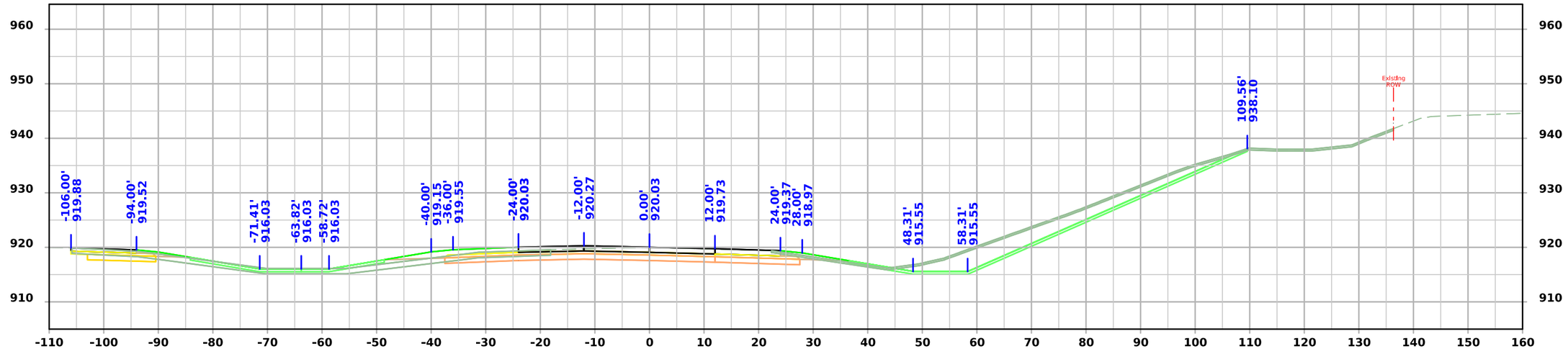


STA 1136+50.00

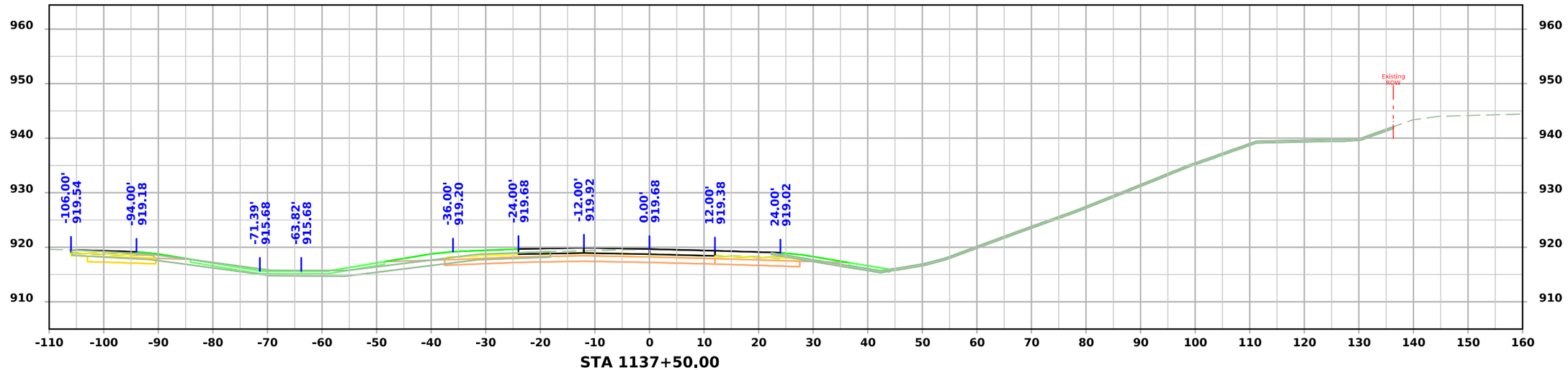
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.45

10:01:18 AM 7/8/2026 mkjartanson 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+00.00

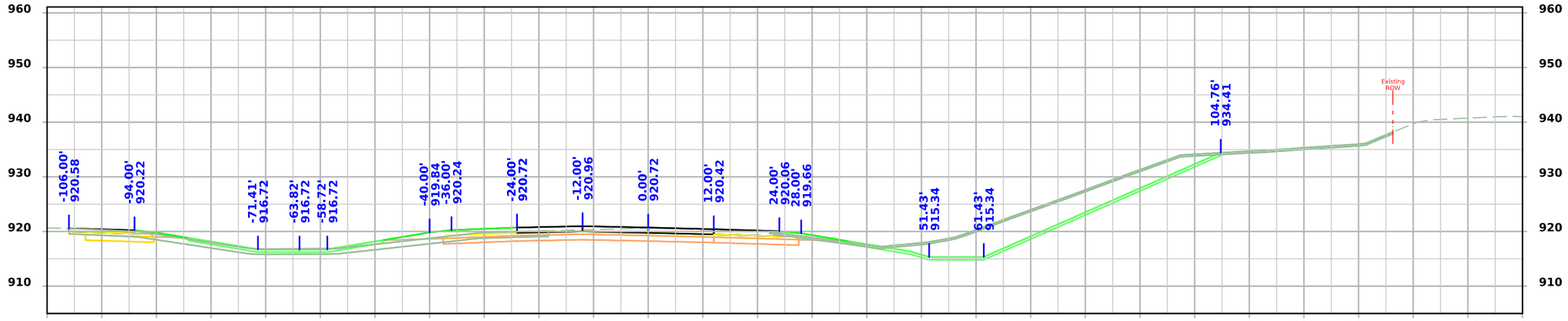


STA 1137+50.00

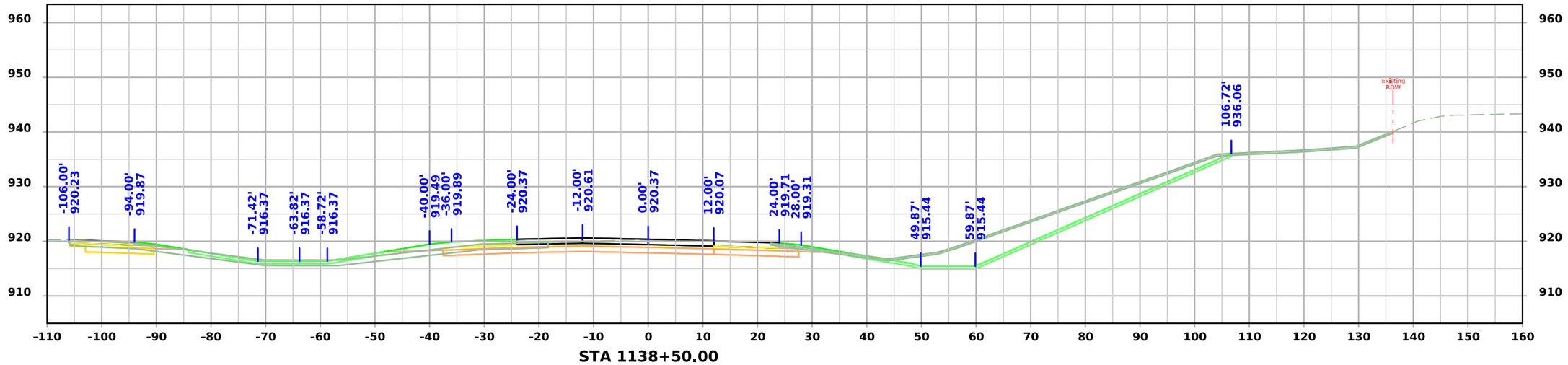
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.46

10:01:20 AM 7/8/2026 mkjartanson 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+00.00

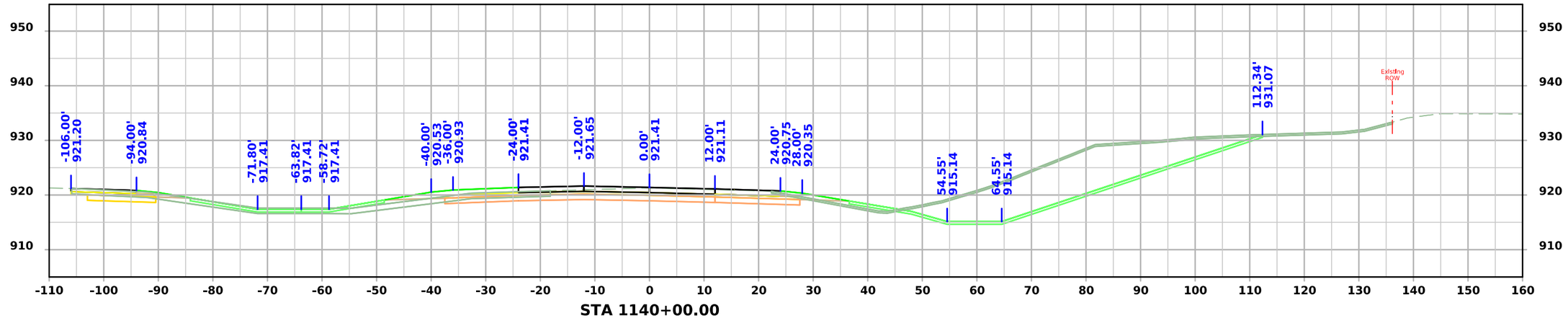


STA 1138+50.00

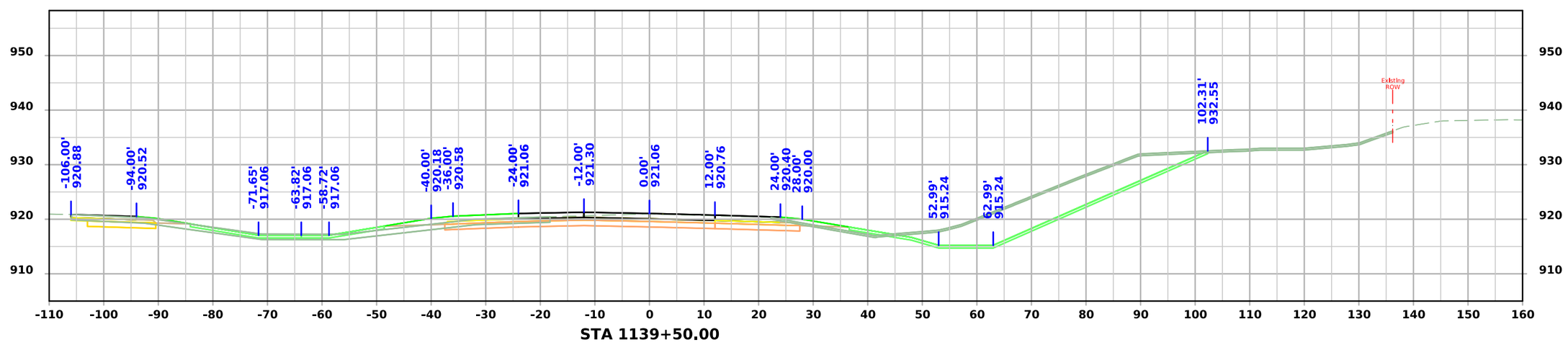
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10:01:22 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1140+00.00

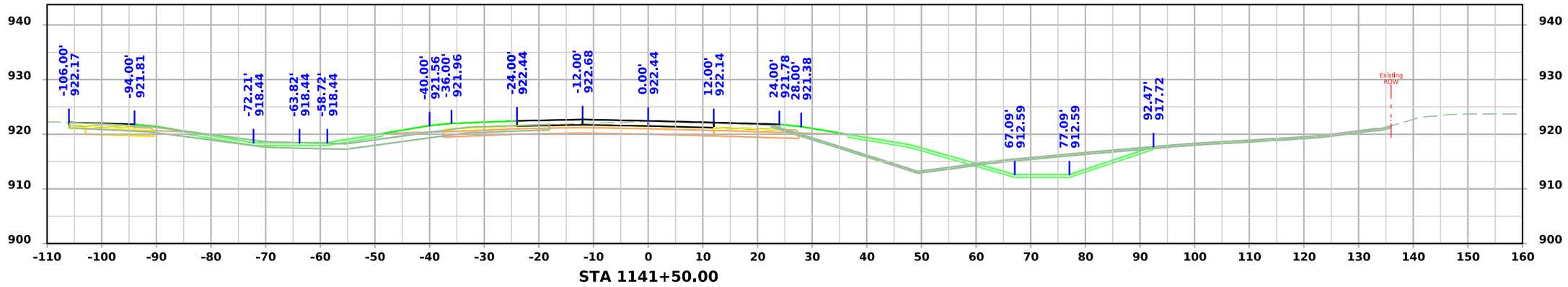


STA 1139+50.00

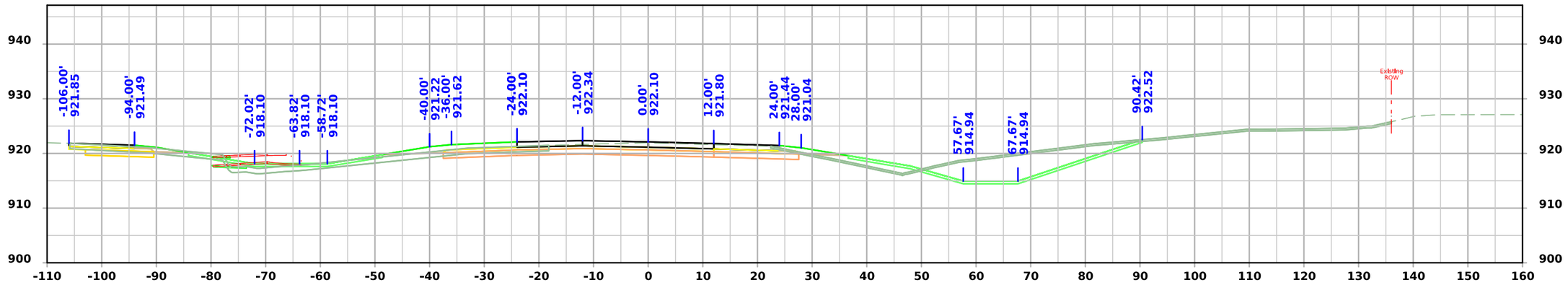
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.48

10:01:24 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

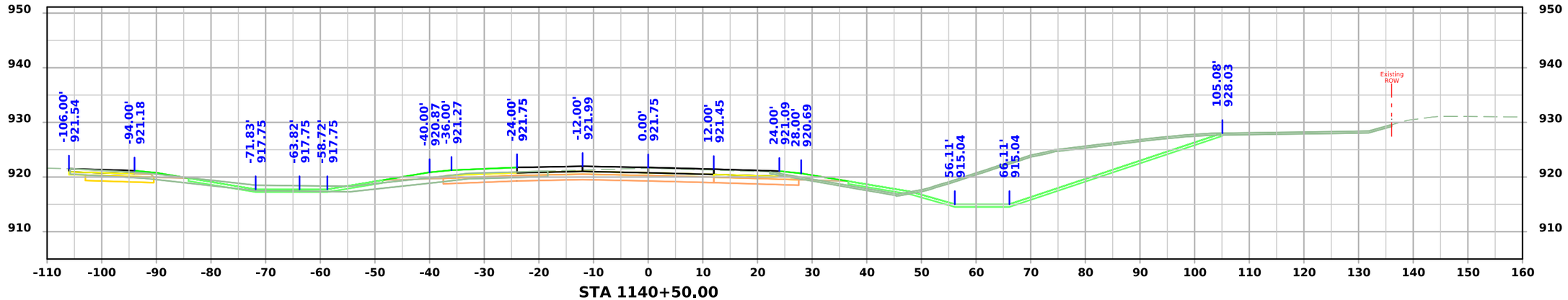
ML - I35 NB



STA 1141+50.00



STA 1141+00.00

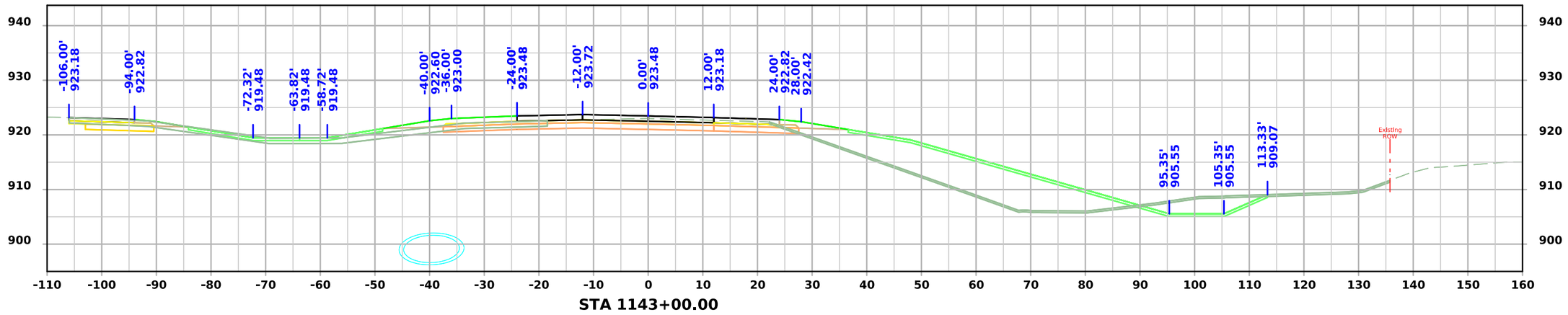


STA 1140+50.00

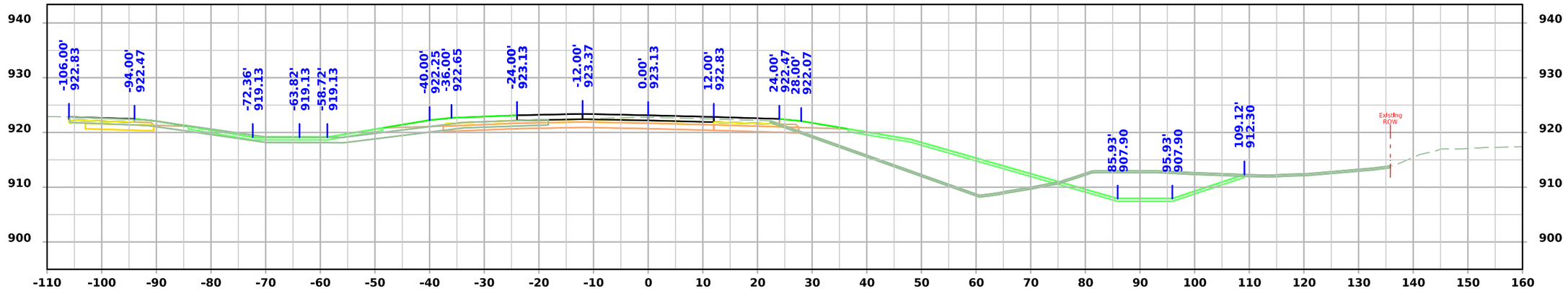
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10:01:27 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

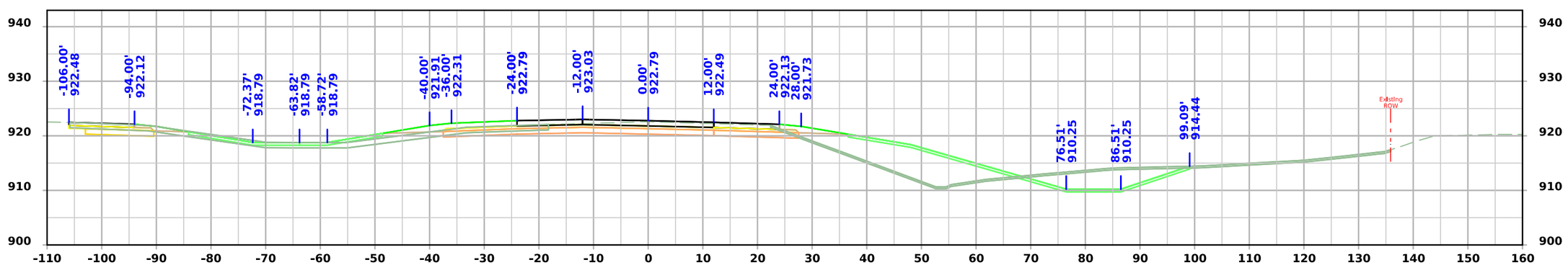
ML - I35 NB



STA 1143+00.00



STA 1142+50.00

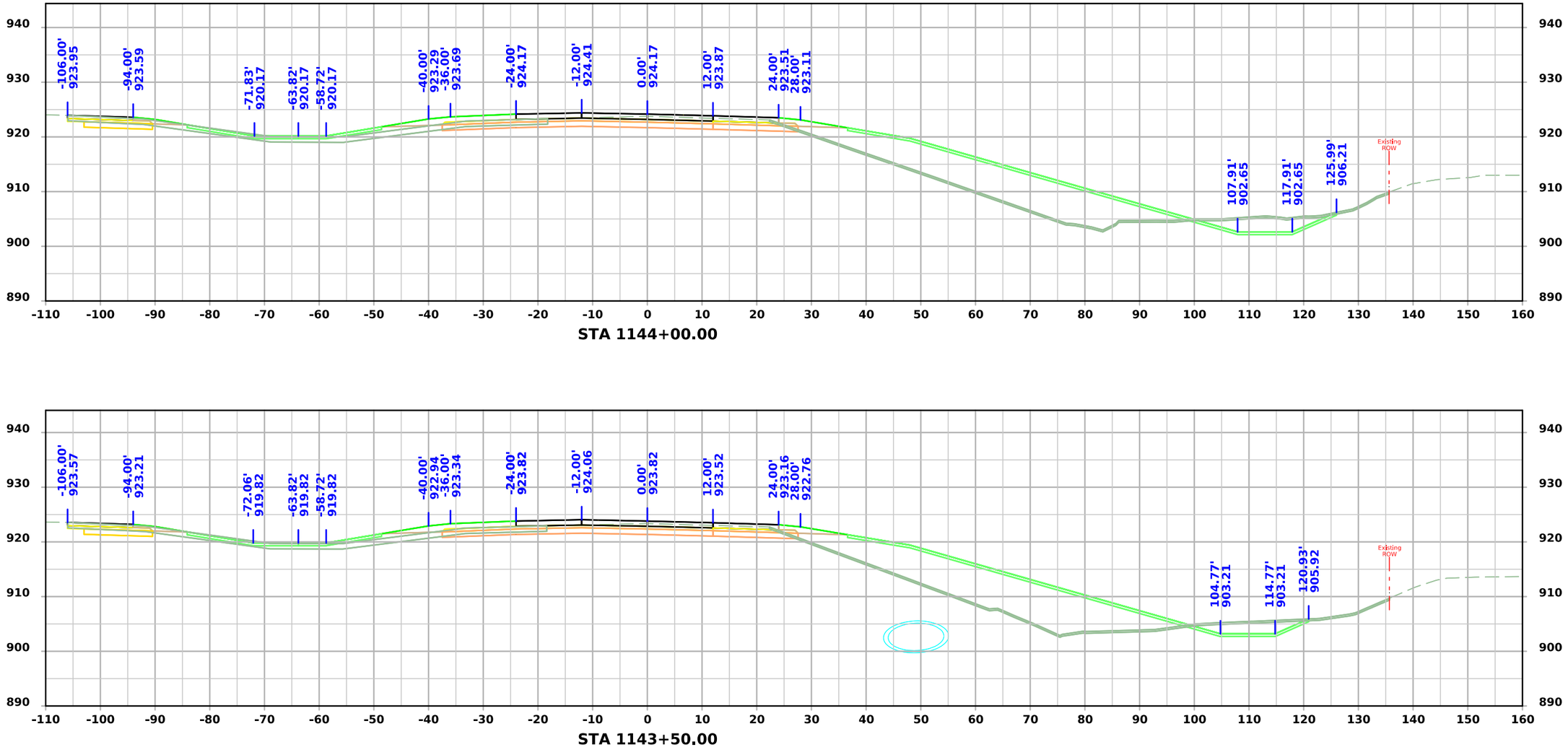


STA 1142+00.00

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

10:01:29 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



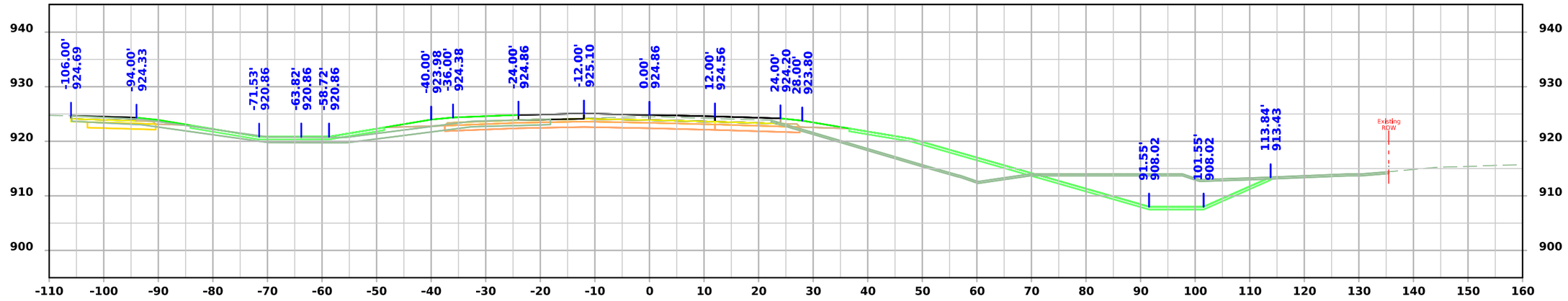
STA 1144+00.00

STA 1143+50.00

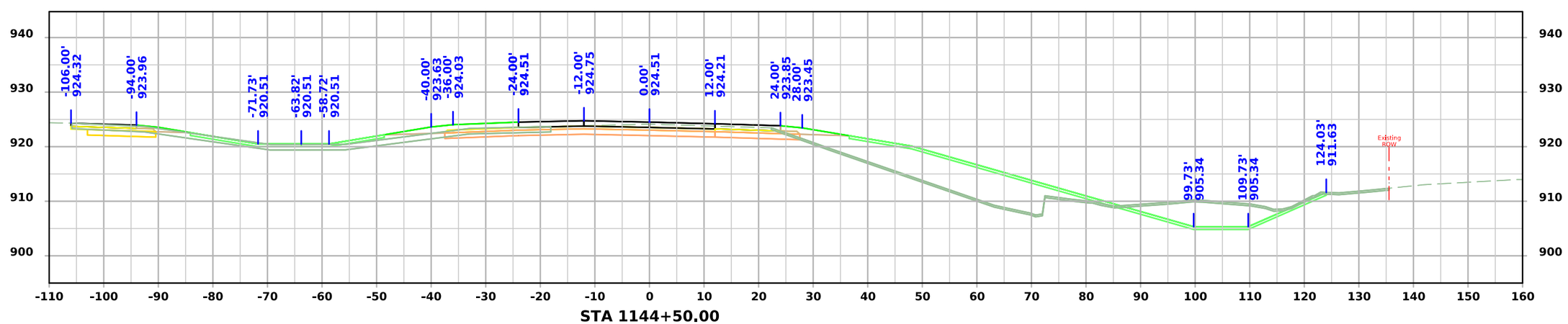
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.51

10:01:32 AM 7/8/2026 mkjartanson 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+00.00

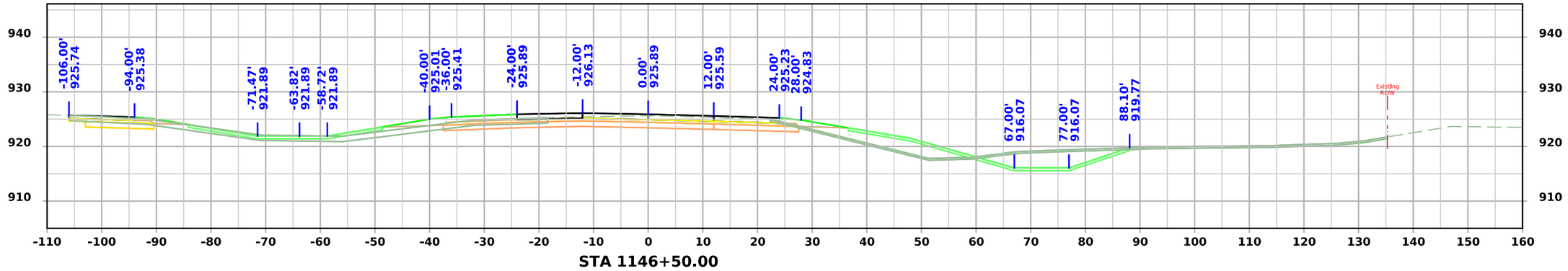


STA 1144+50.00

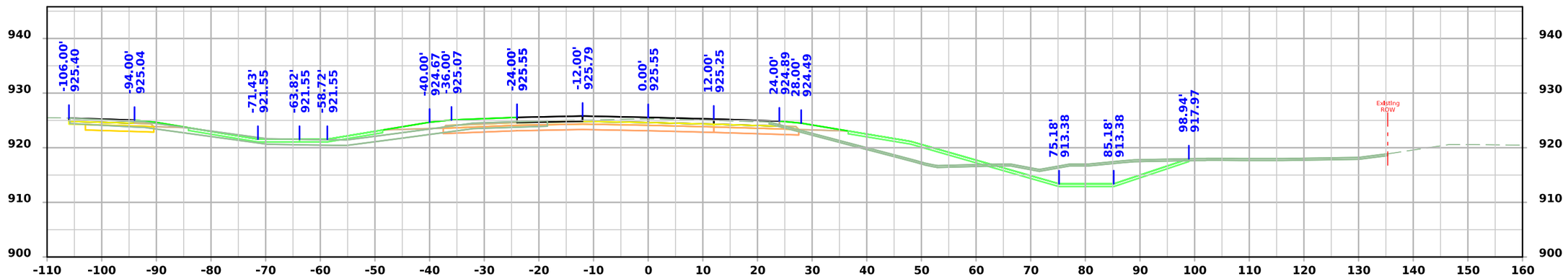
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.52

10:01:34 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

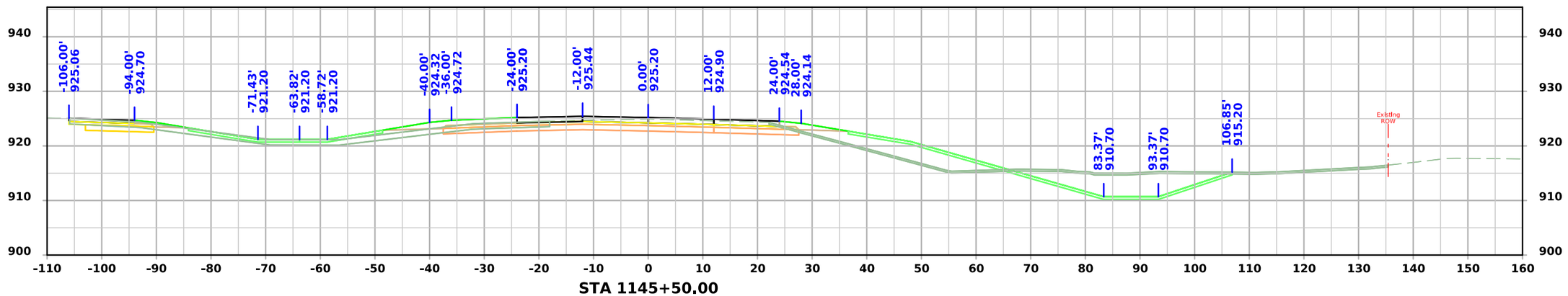
ML - I35 NB



STA 1146+50.00



STA 1146+00.00

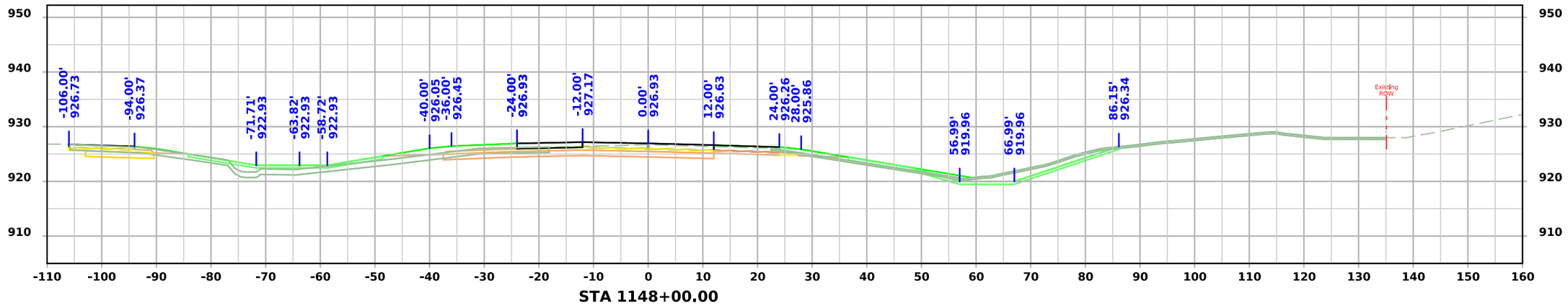


STA 1145+50.00

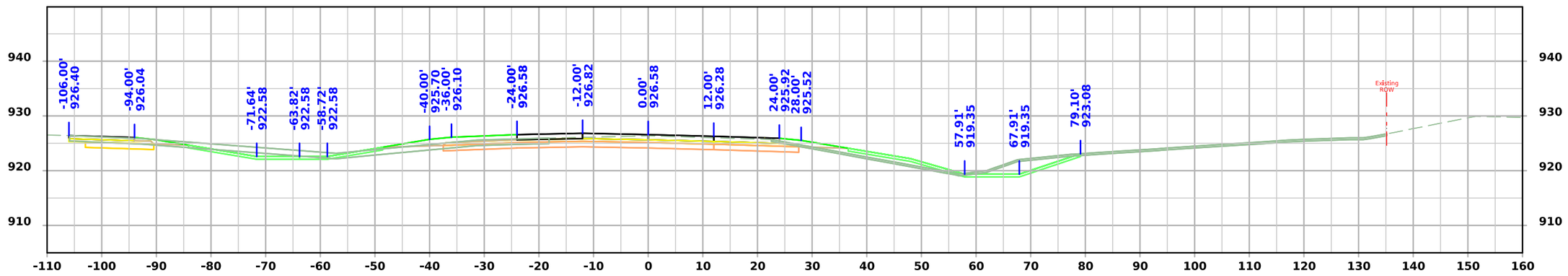
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.53

10:01:36 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

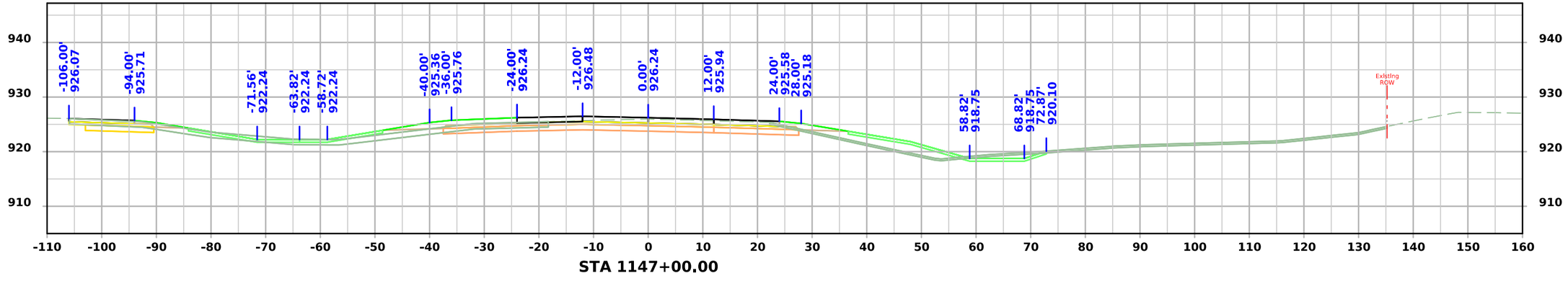
ML - I35 NB



STA 1148+00.00



STA 1147+50.00

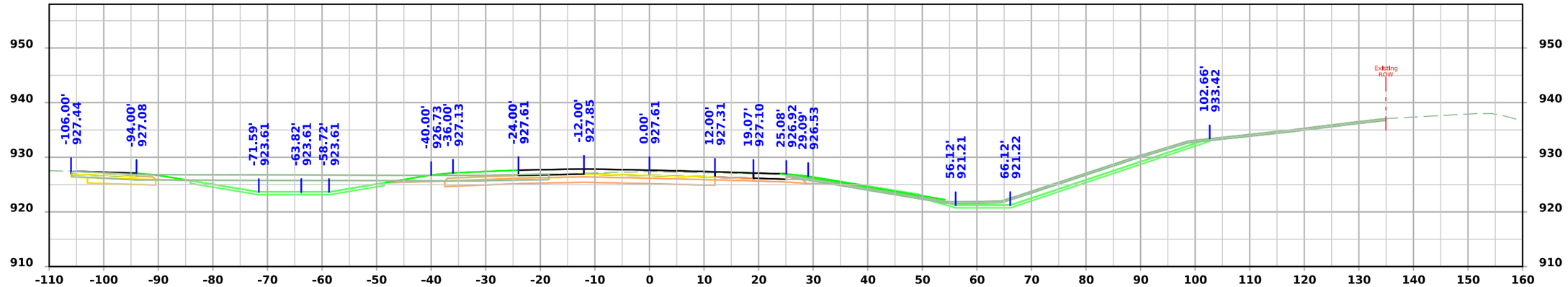


STA 1147+00.00

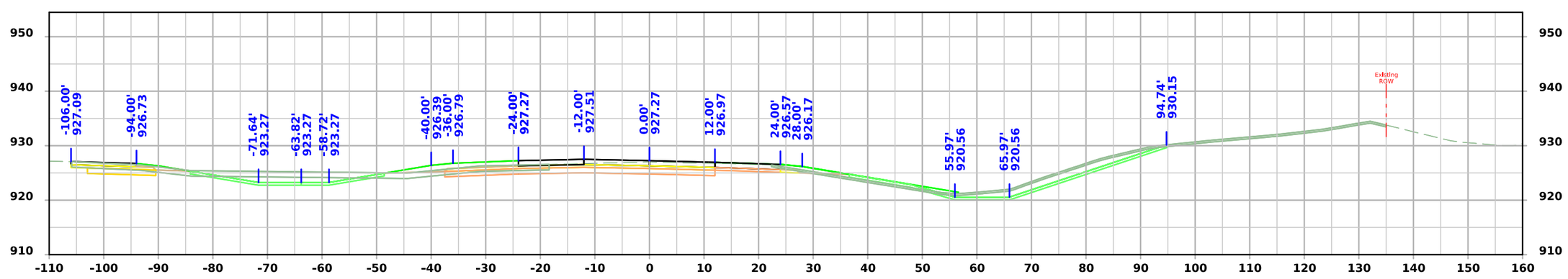
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.54

10:01:39 AM 7/8/2026 mkjartanson 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 1149+00.00

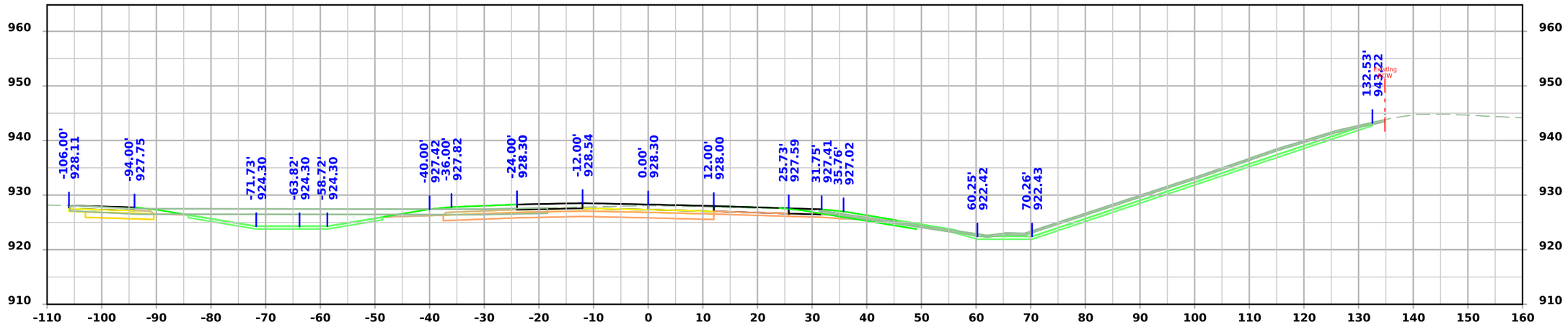


STA 1148+50.00

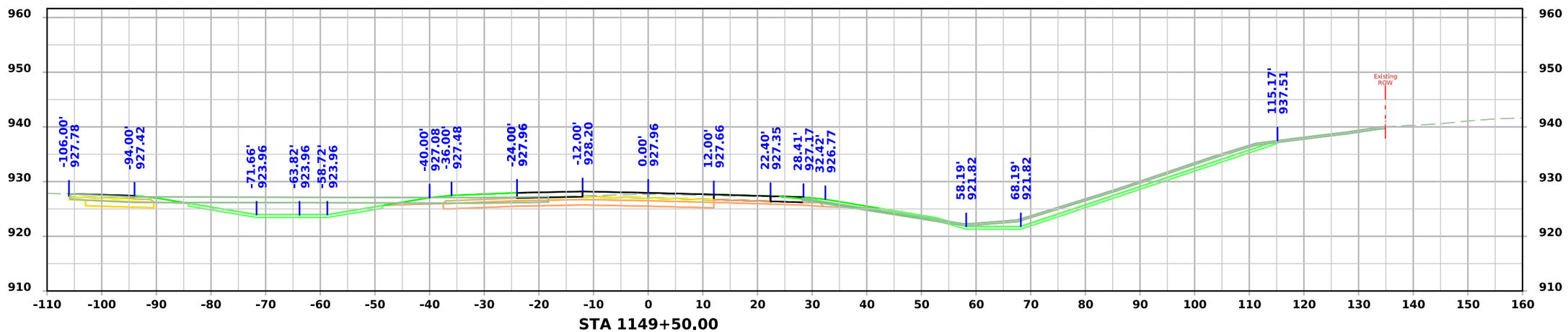
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.55

10:01:41 AM 7/8/2026 mkjartanson 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

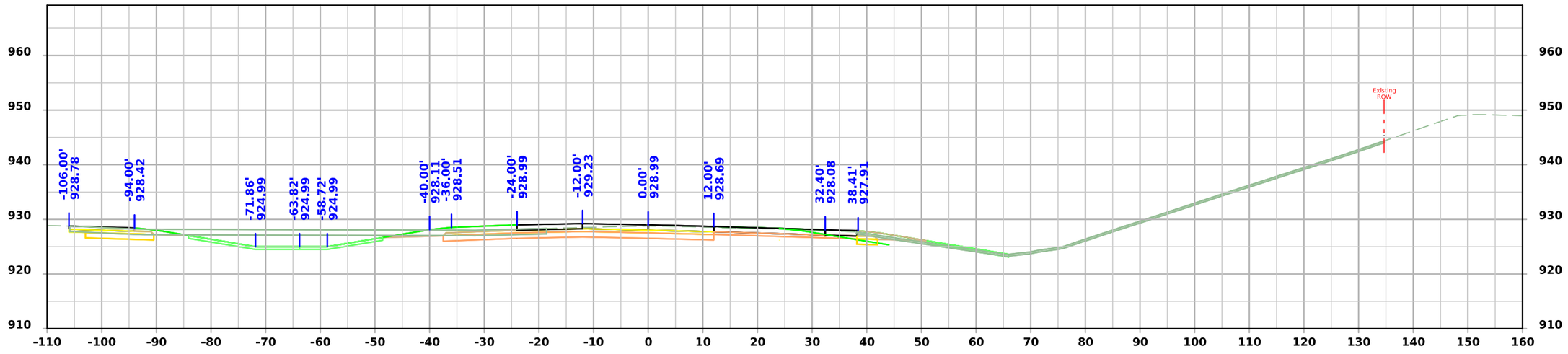


STA 1149+50.00

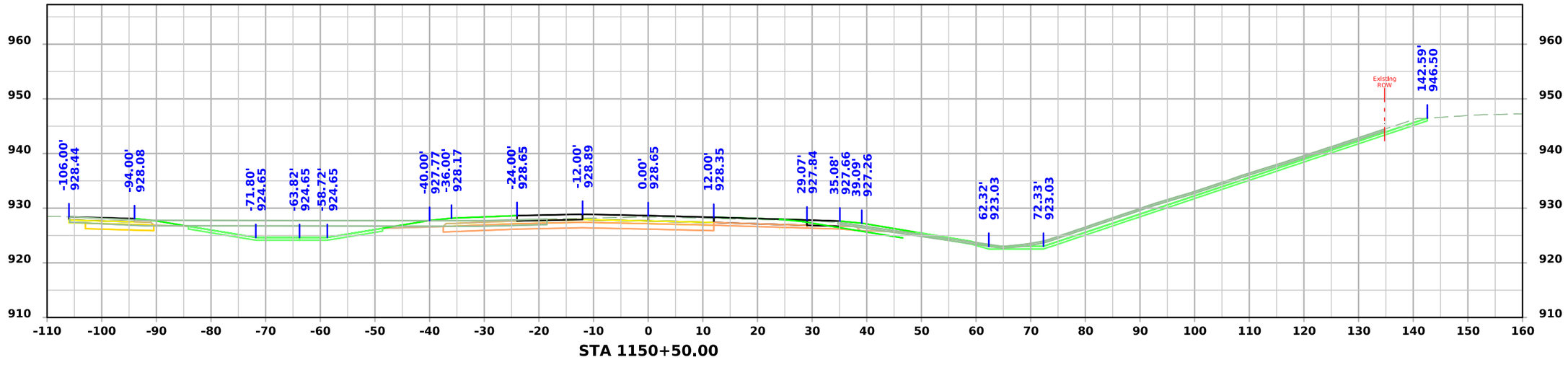
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.56

10:01:43 AM 7/8/2026 mkjartanson 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+00.00

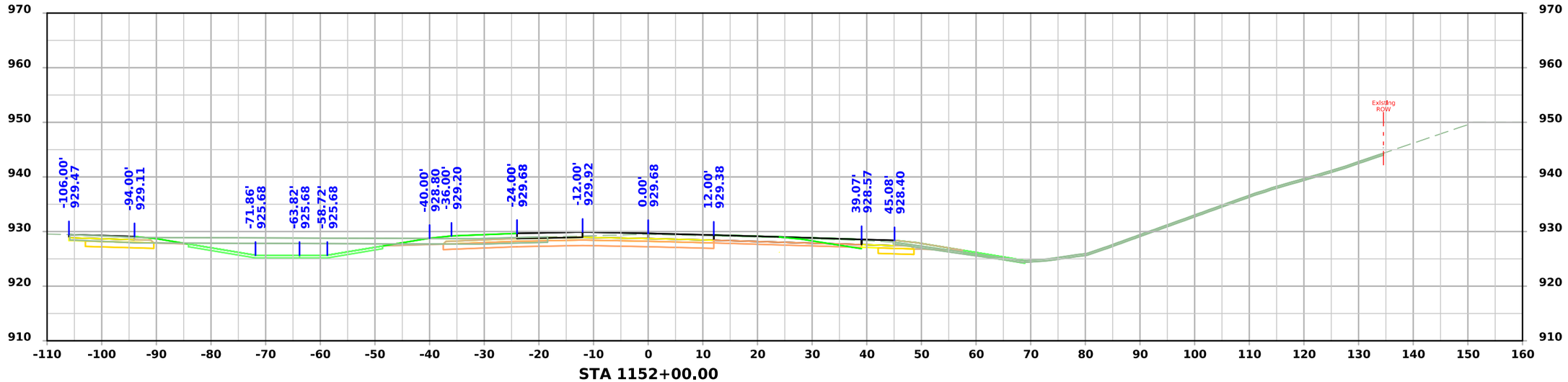


STA 1150+50.00

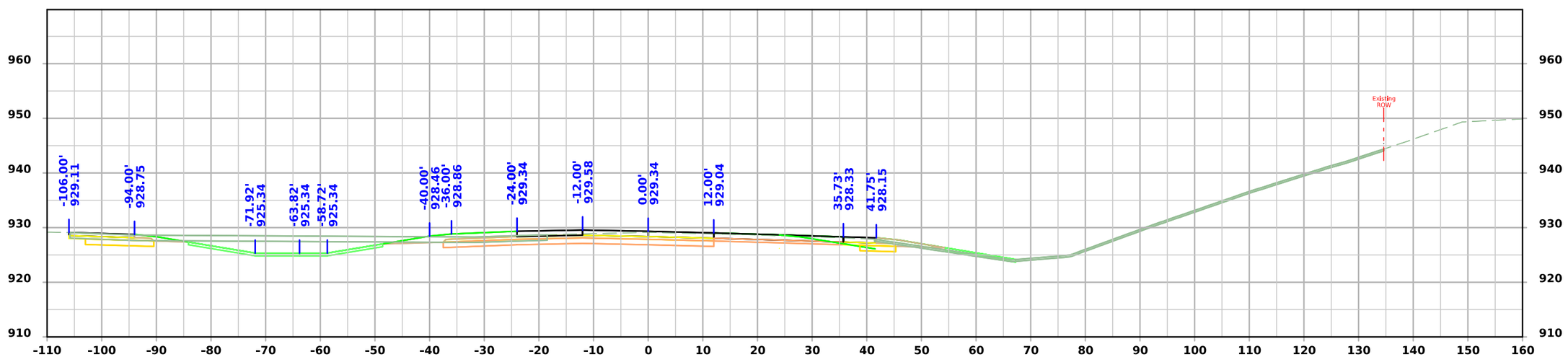
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.57

10:01:45 AM 7/8/2026 mkjartanson 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 1152+00.00

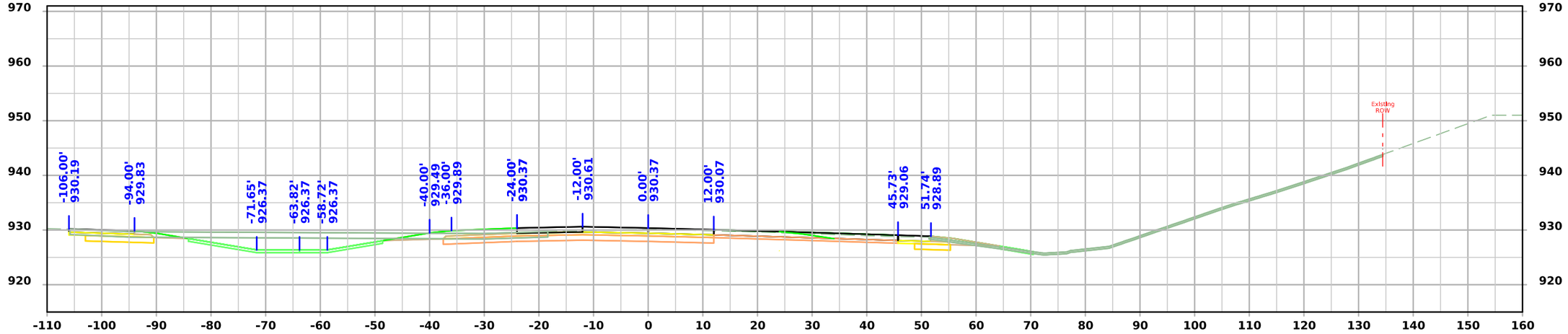


STA 1151+50.00

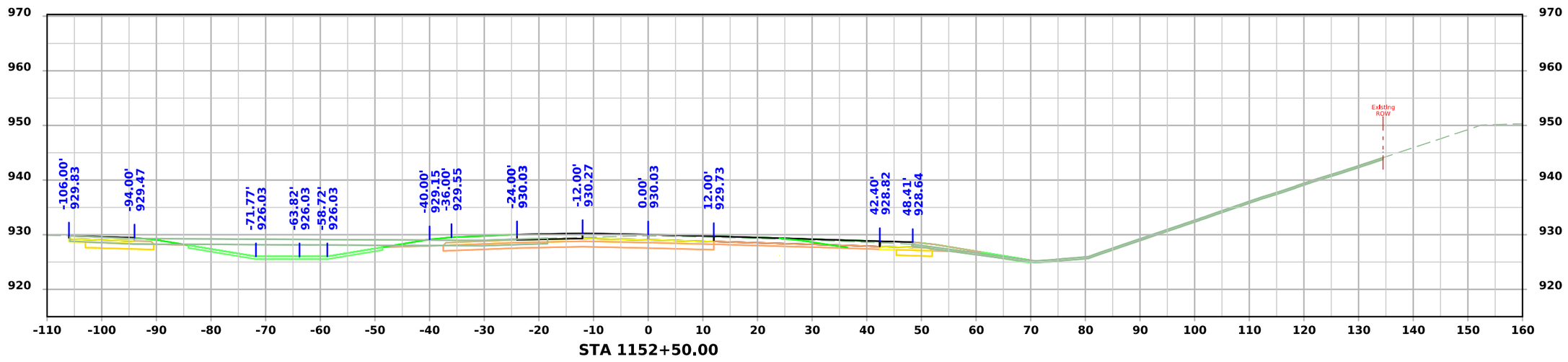
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.58

10:01:47 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.Ian:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1153+00.00

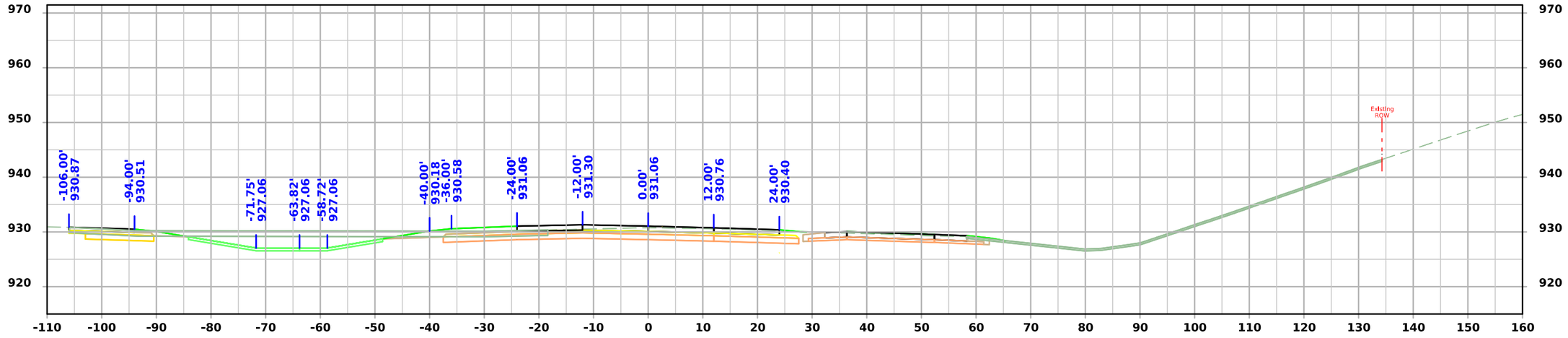


STA 1152+50.00

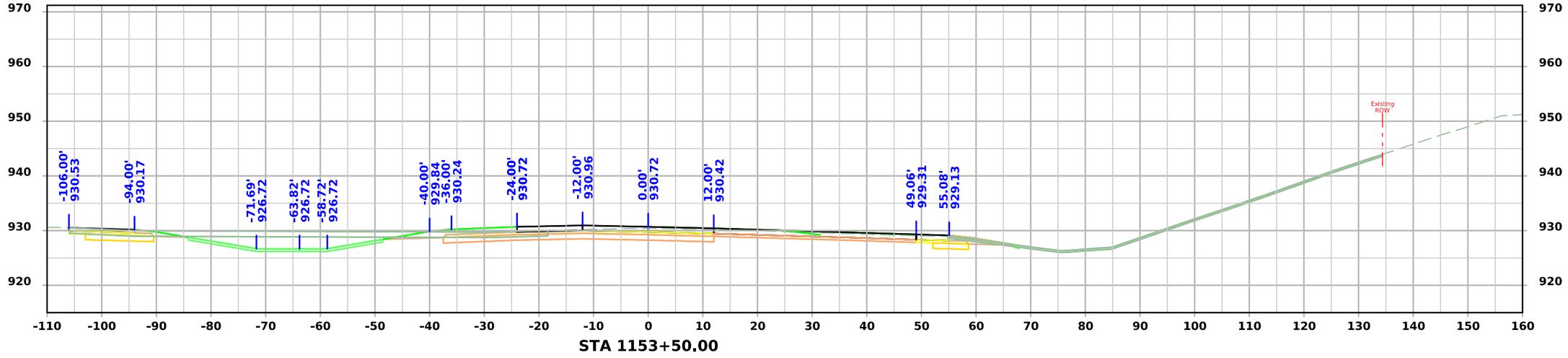
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.59

10:01:50 AM 7/8/2026 mkjartanson 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+00.00

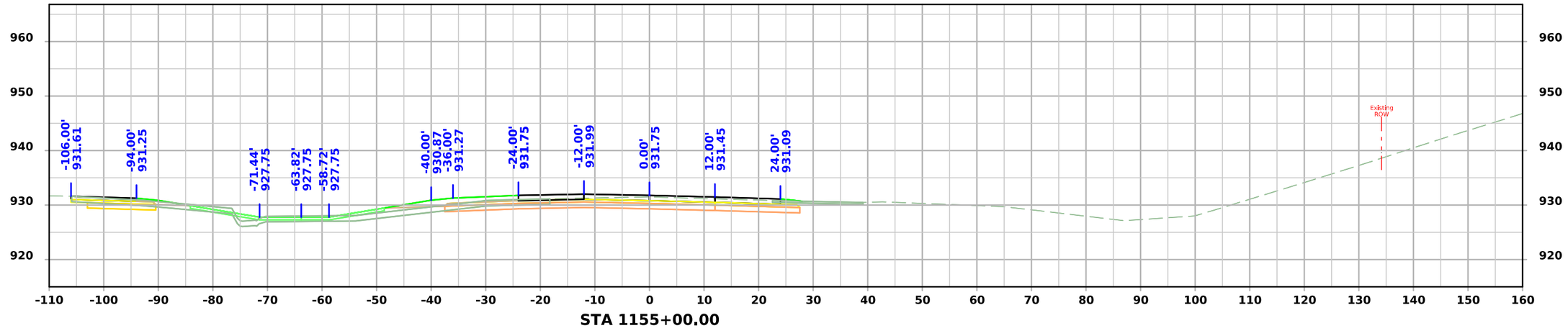


STA 1153+50.00

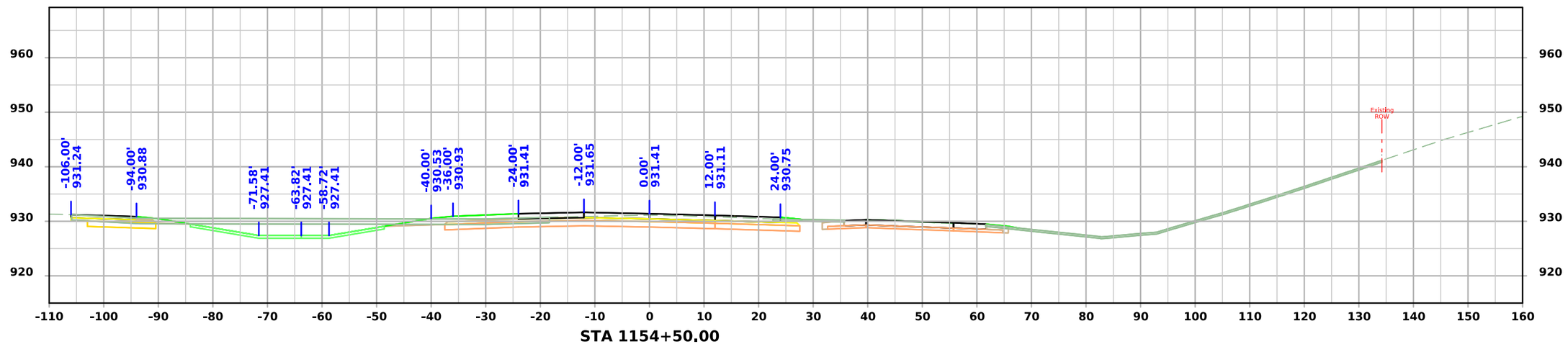
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10:01:52 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1155+00.00

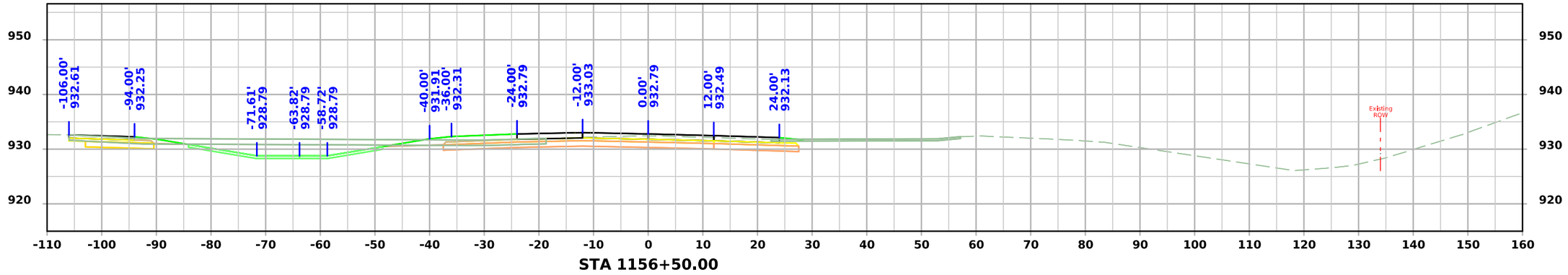


STA 1154+50.00

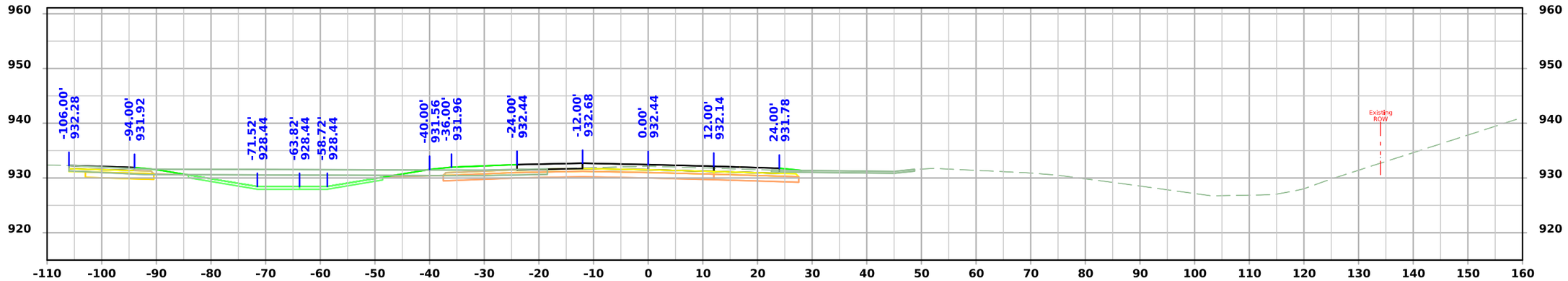
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.61

10:01:54 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

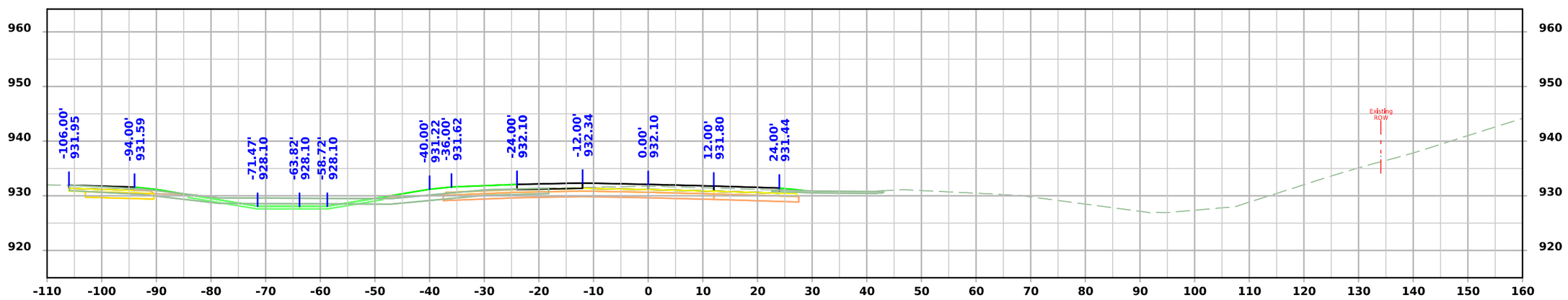
ML - I35 NB



STA 1156+50.00



STA 1156+00.00

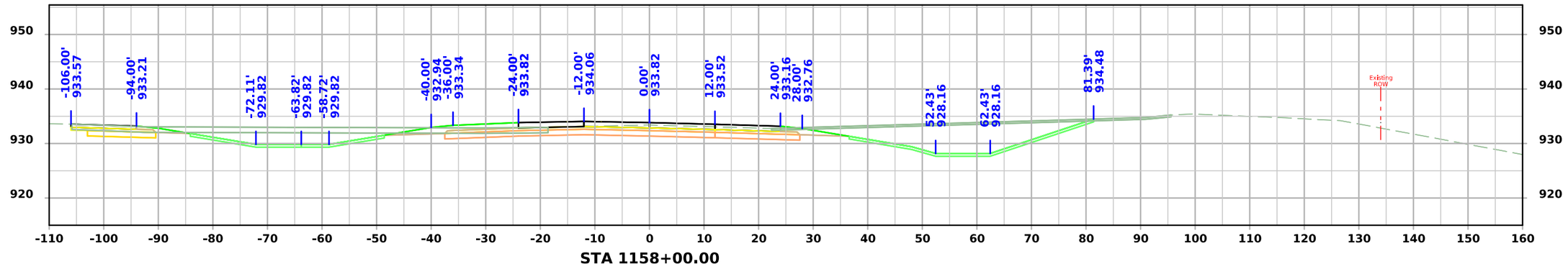


STA 1155+50.00

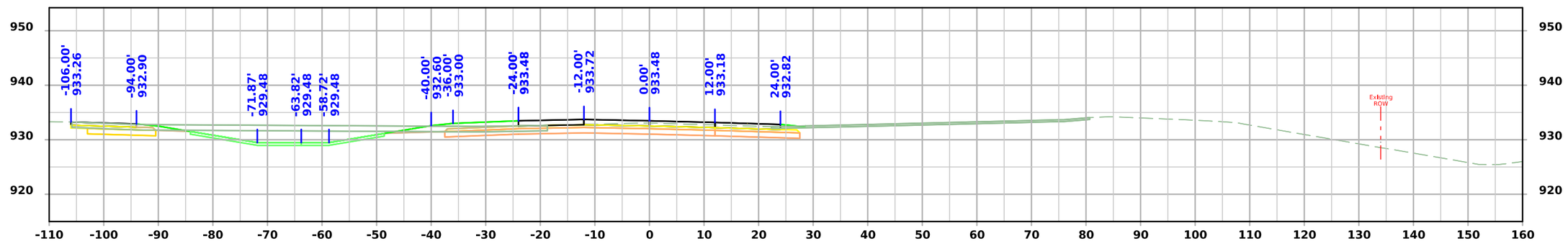
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.62

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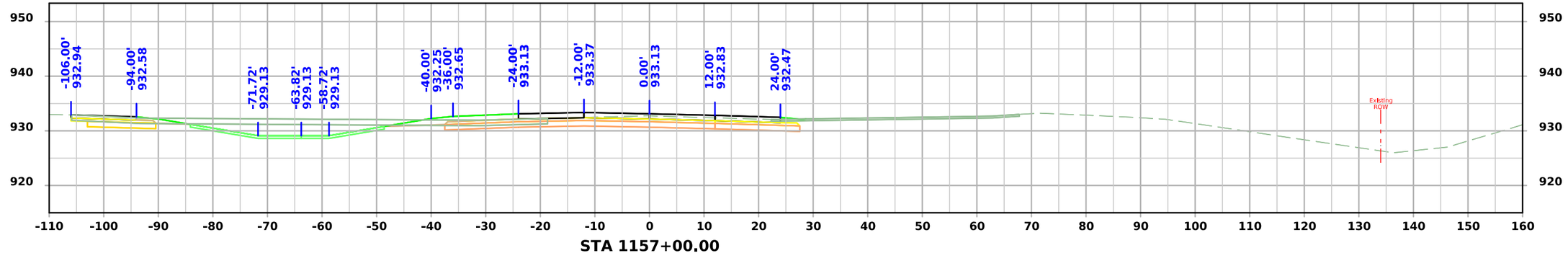
ML - I35 NB



STA 1158+00.00



STA 1157+50.00

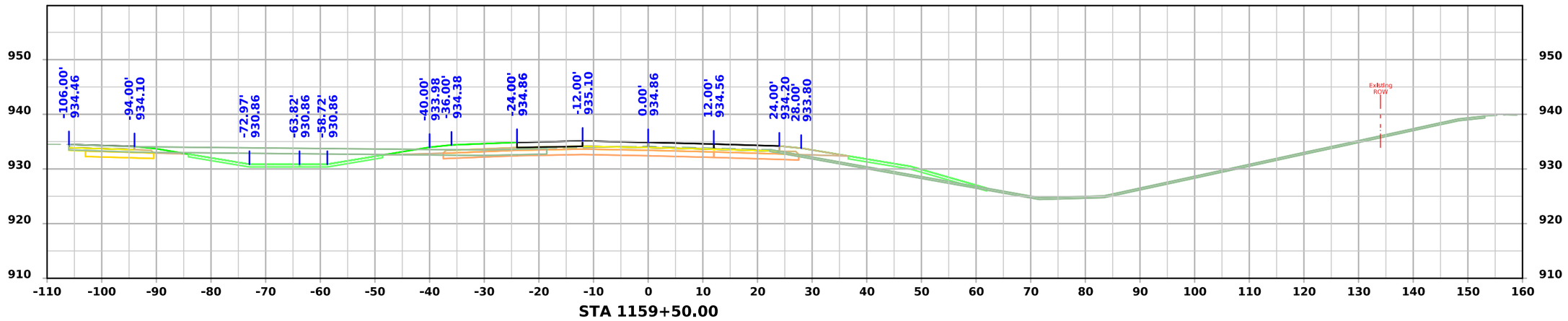


STA 1157+00.00

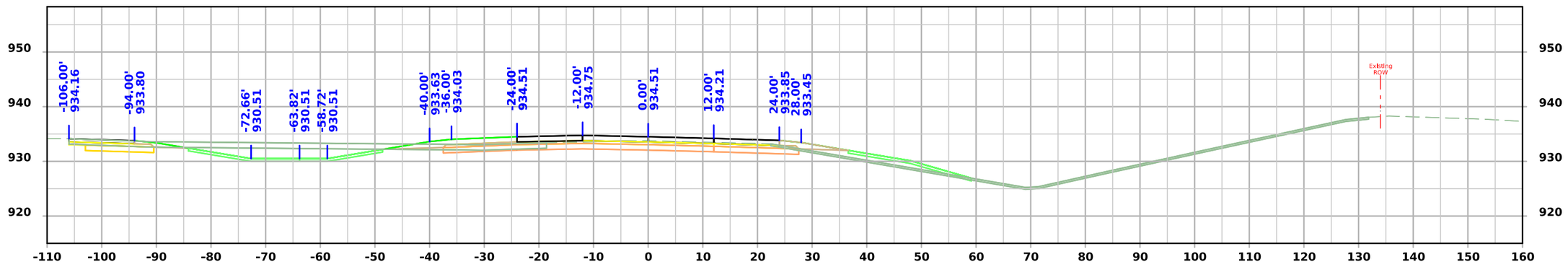
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.63

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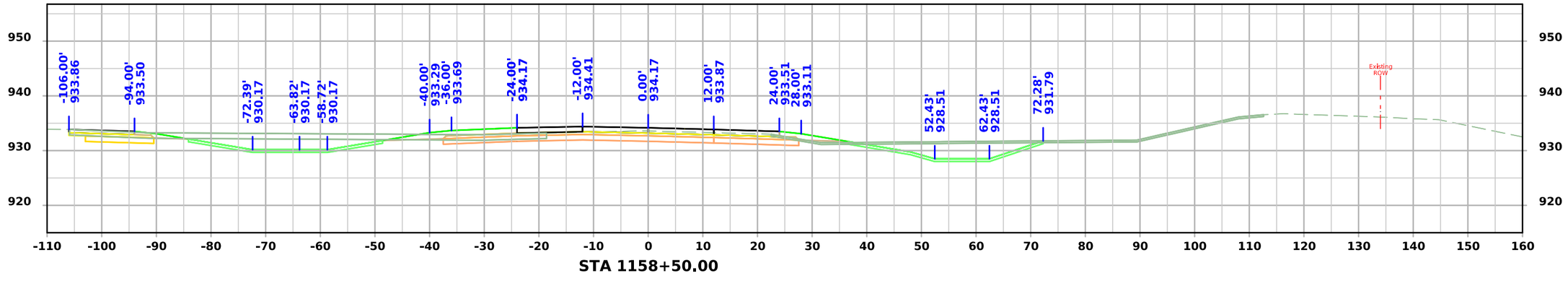
ML - I35 NB



STA 1159+50.00



STA 1159+00.00

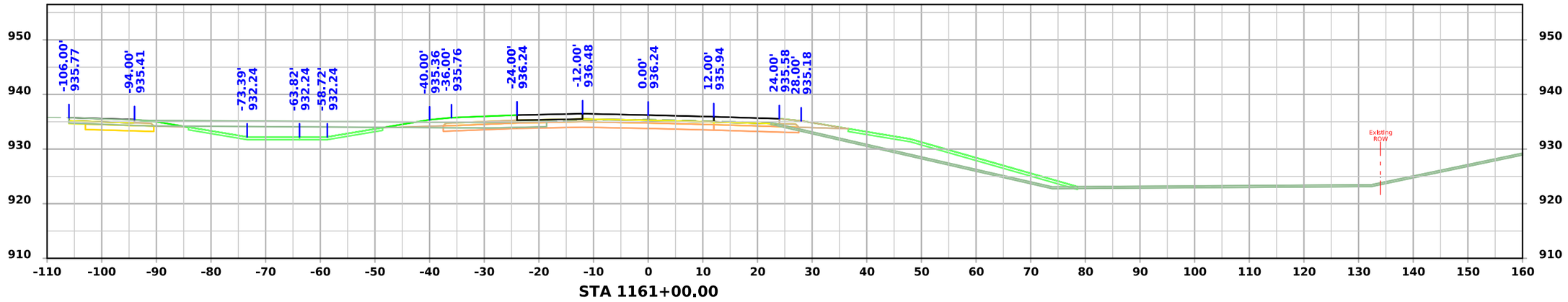


STA 1158+50.00

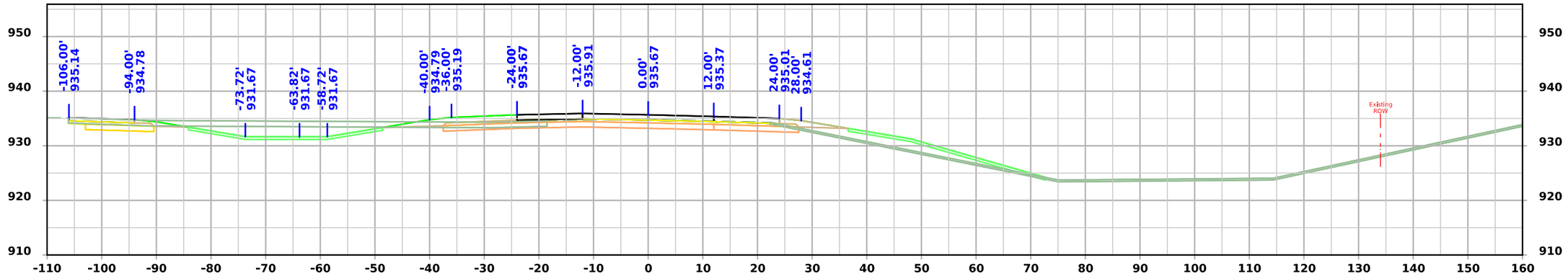
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.64

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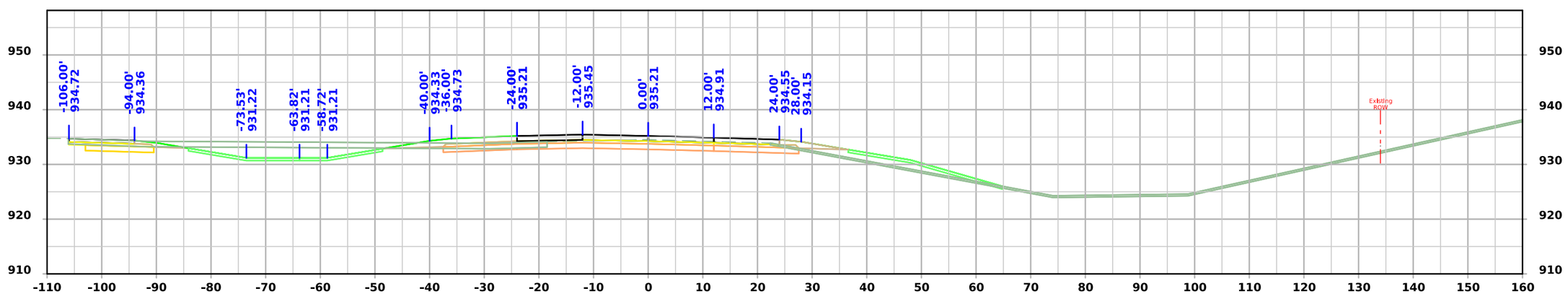
ML - I35 NB



STA 1161+00.00



STA 1160+50.00

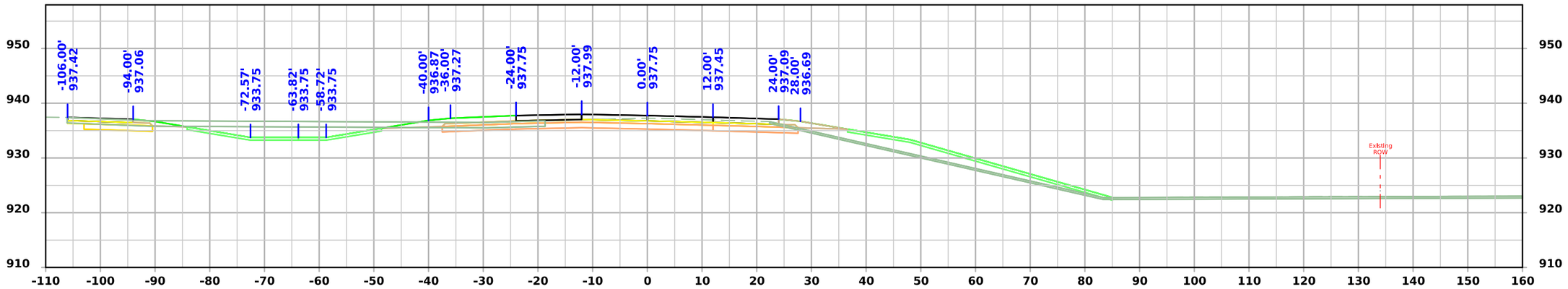


STA 1160+00.00

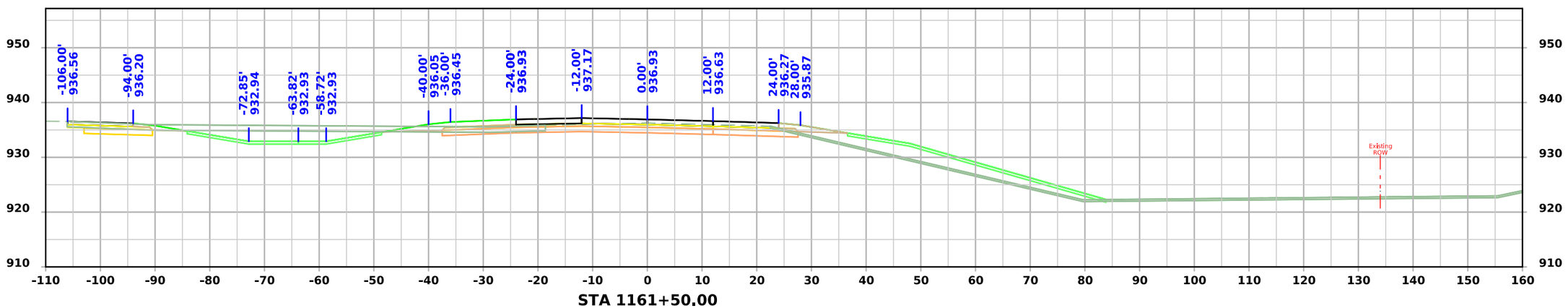
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.65

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ML - I35 NB



STA 1162+00.00

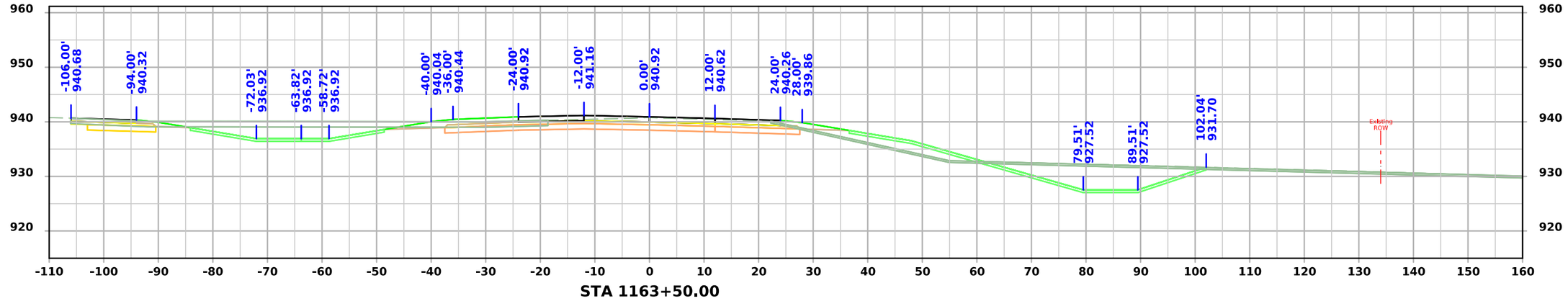


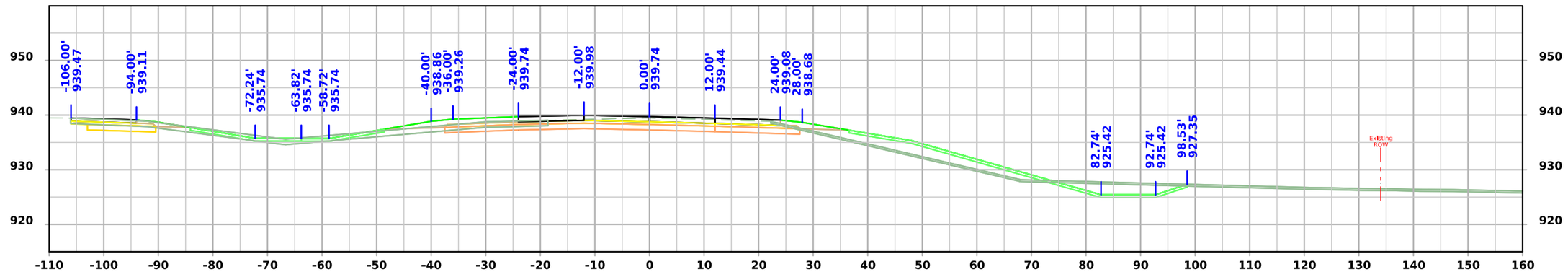
STA 1161+50.00

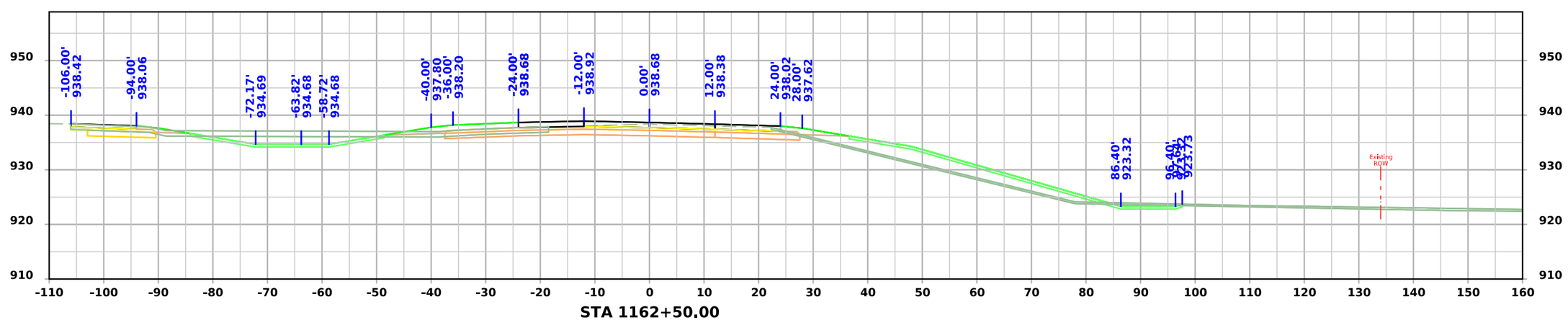
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.66

10:02:05 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



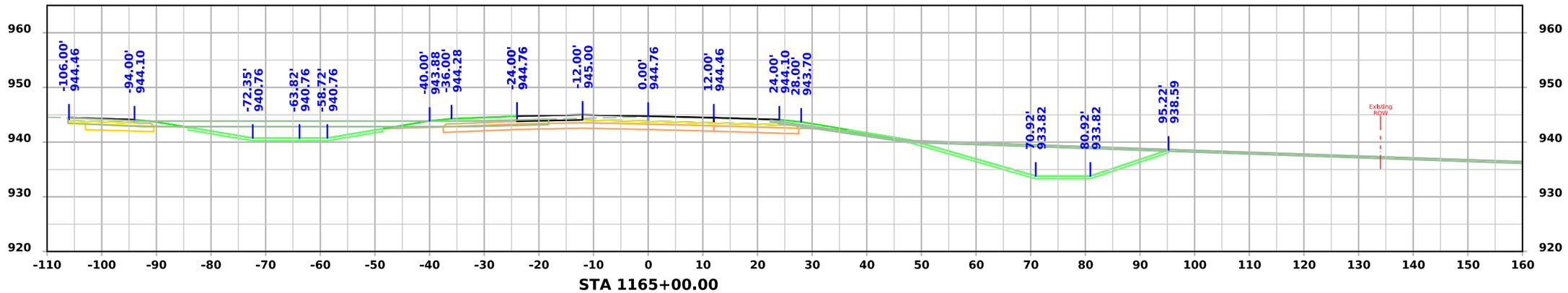




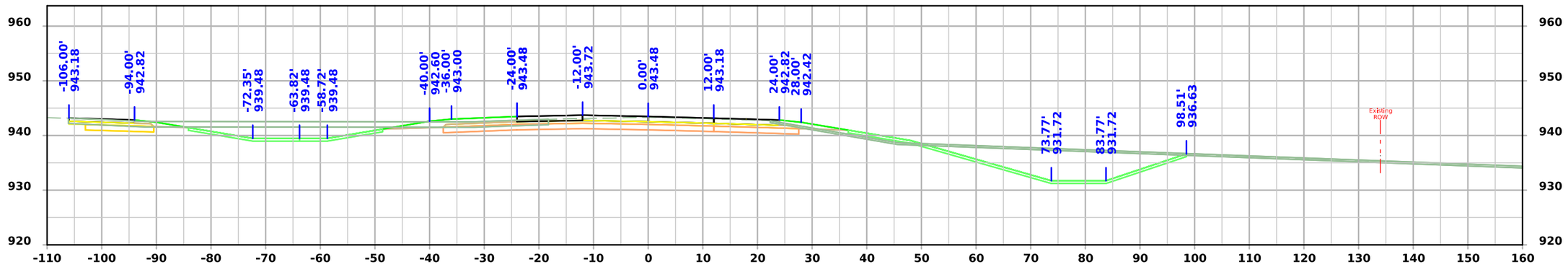
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.67

10:02:07 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

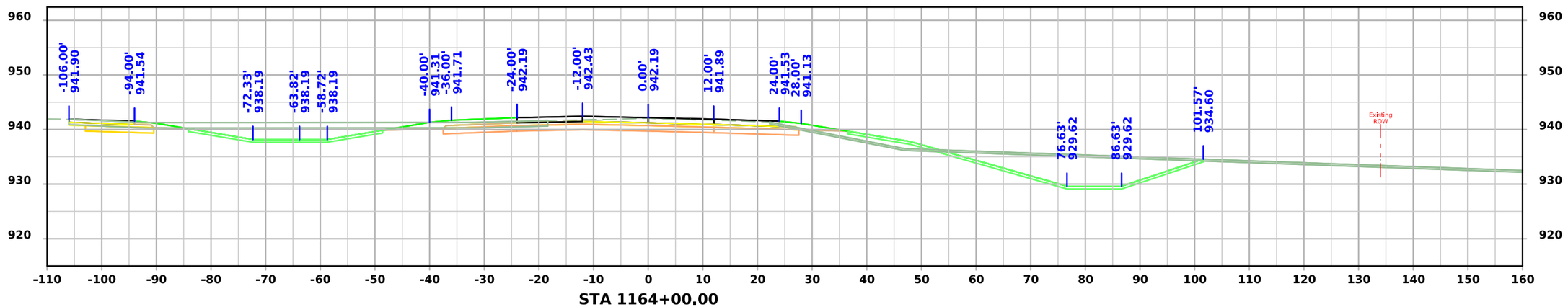
ML - I35 NB



STA 1165+00.00



STA 1164+50.00

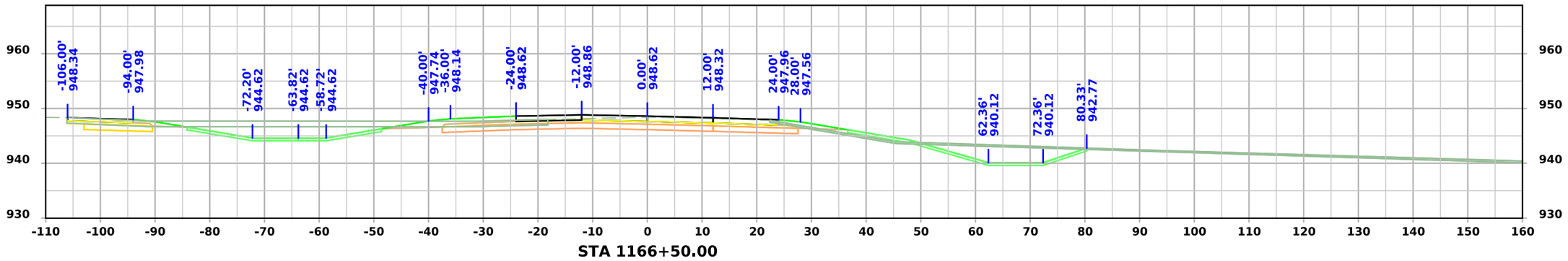


STA 1164+00.00

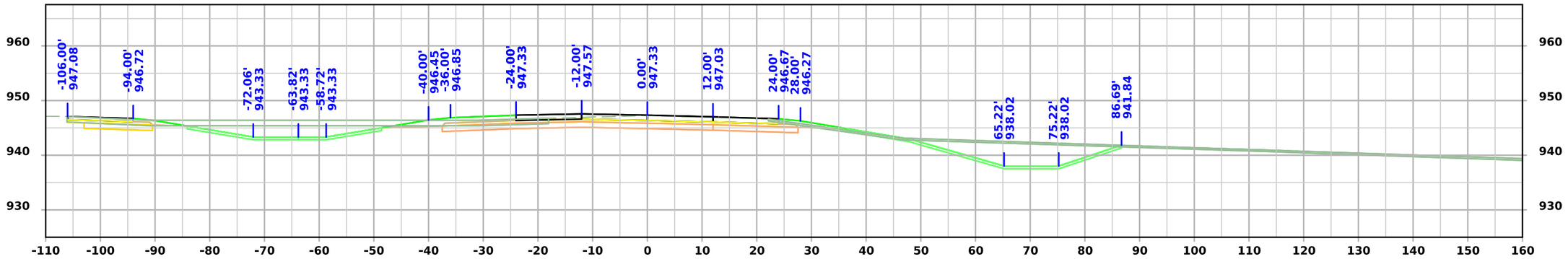
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.68

10:02:09 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

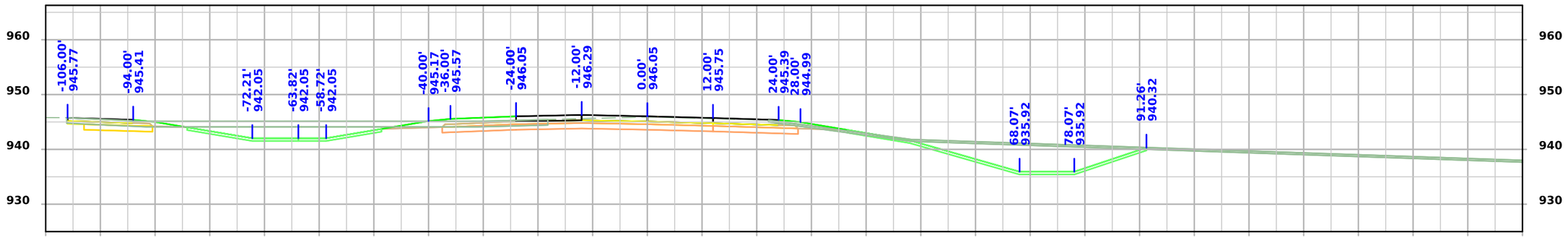
ML - I35 NB



STA 1166+50.00



STA 1166+00.00

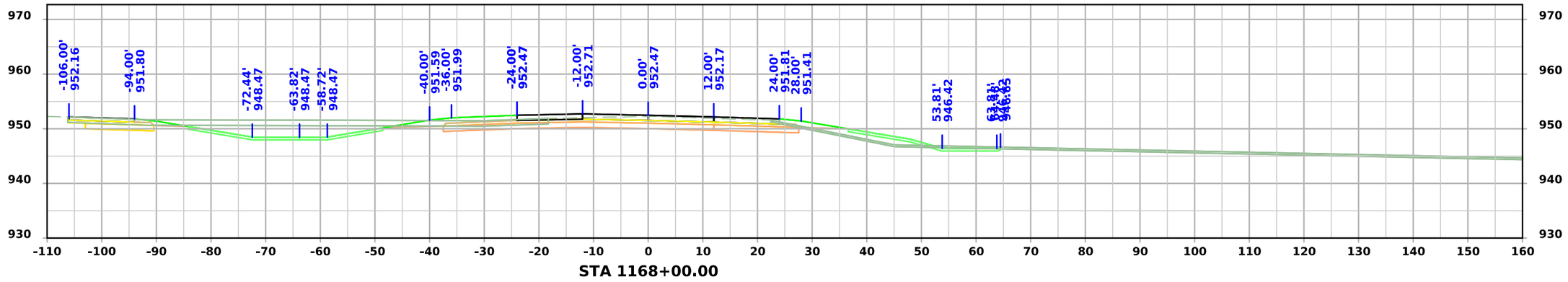


STA 1165+50.00

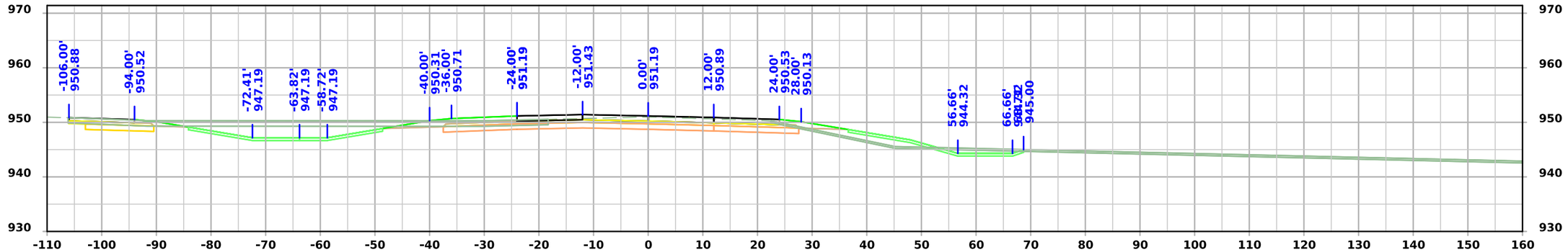
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10:02:11 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

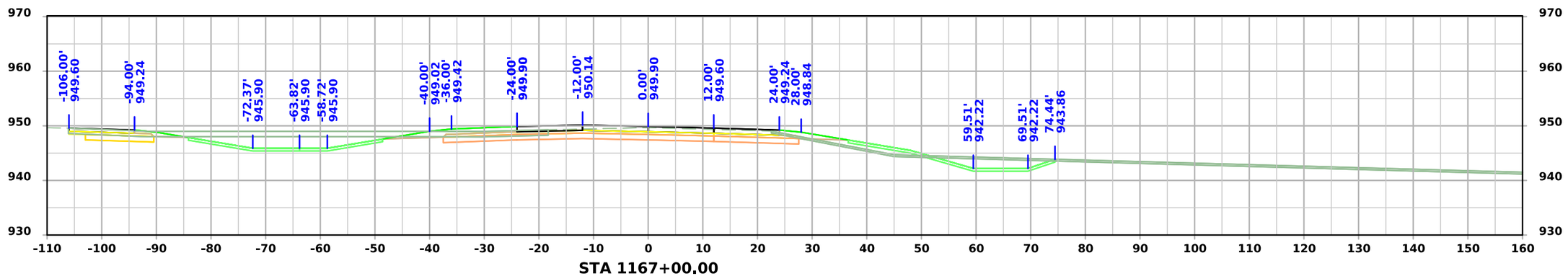
ML - I35 NB



STA 1168+00.00



STA 1167+50.00

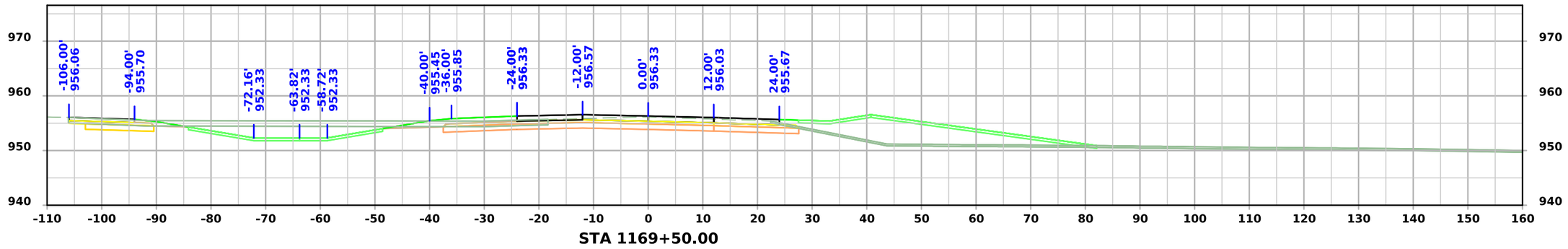


STA 1167+00.00

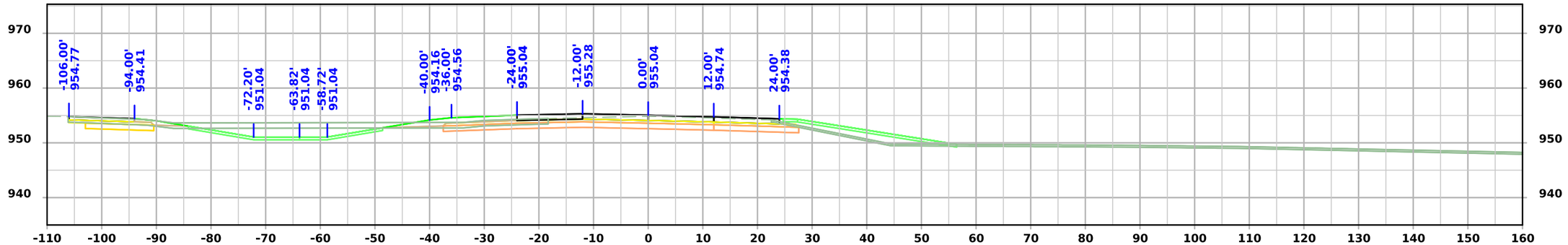
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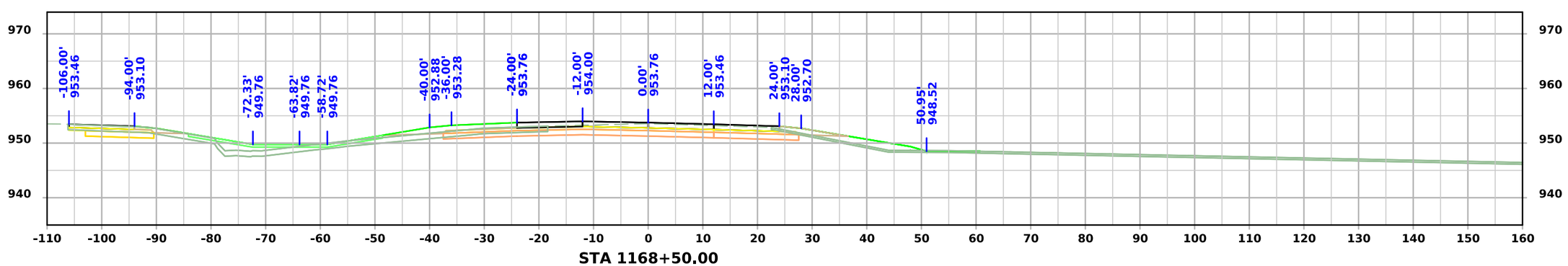
ML - I35 NB



STA 1169+50.00



STA 1169+00.00

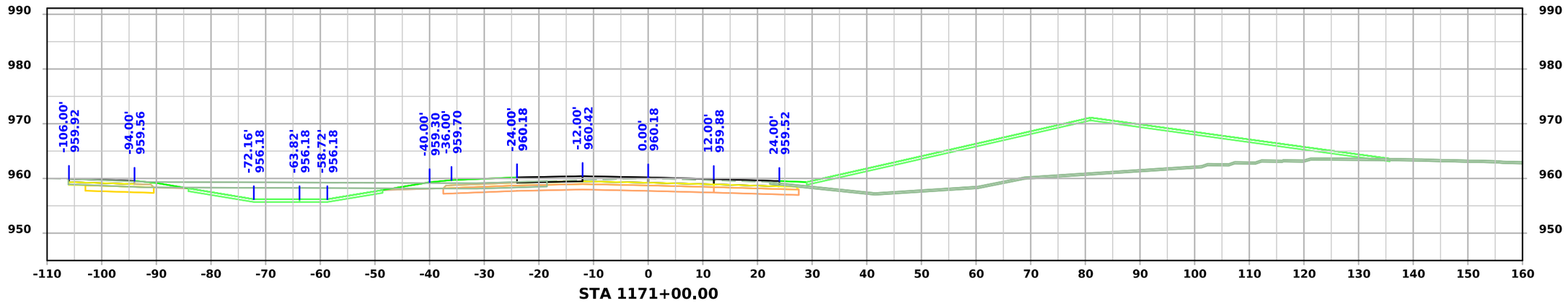


STA 1168+50.00

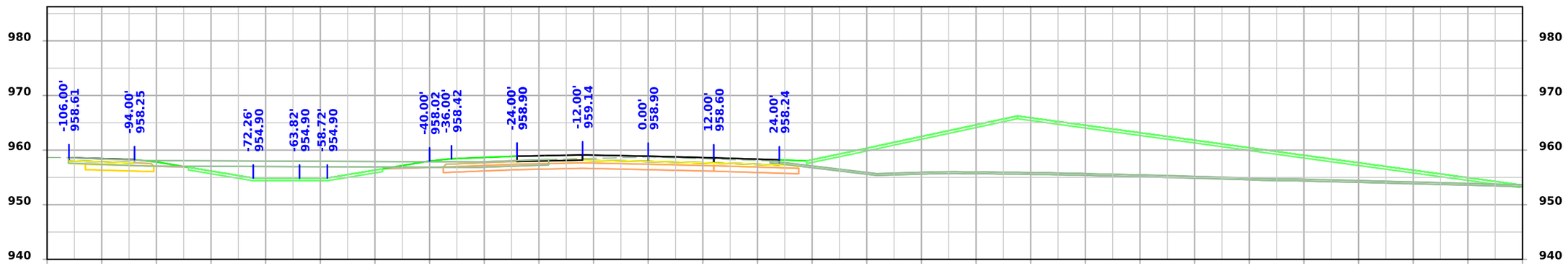
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10:02:16 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

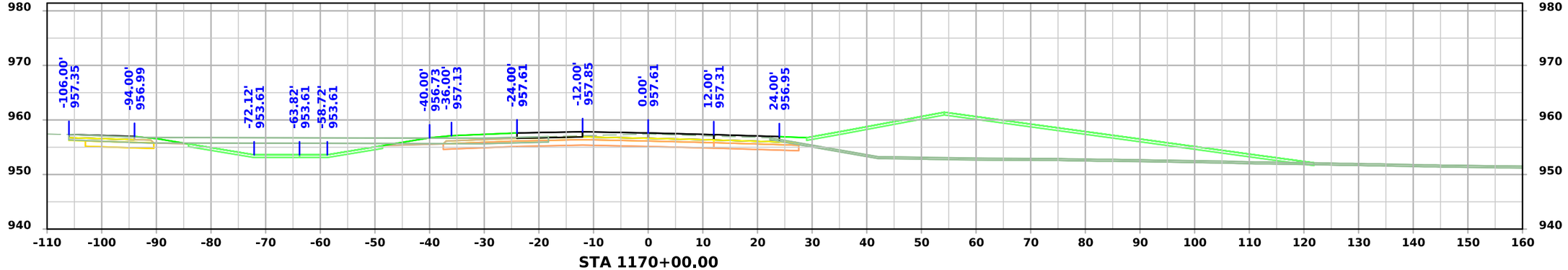
ML - I35 NB



STA 1171+00.00



STA 1170+50.00

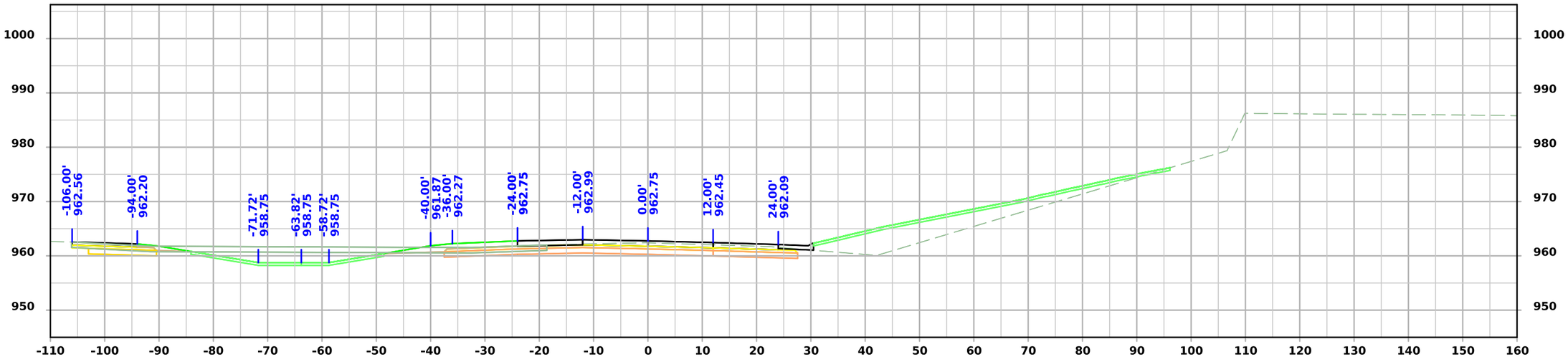


STA 1170+00.00

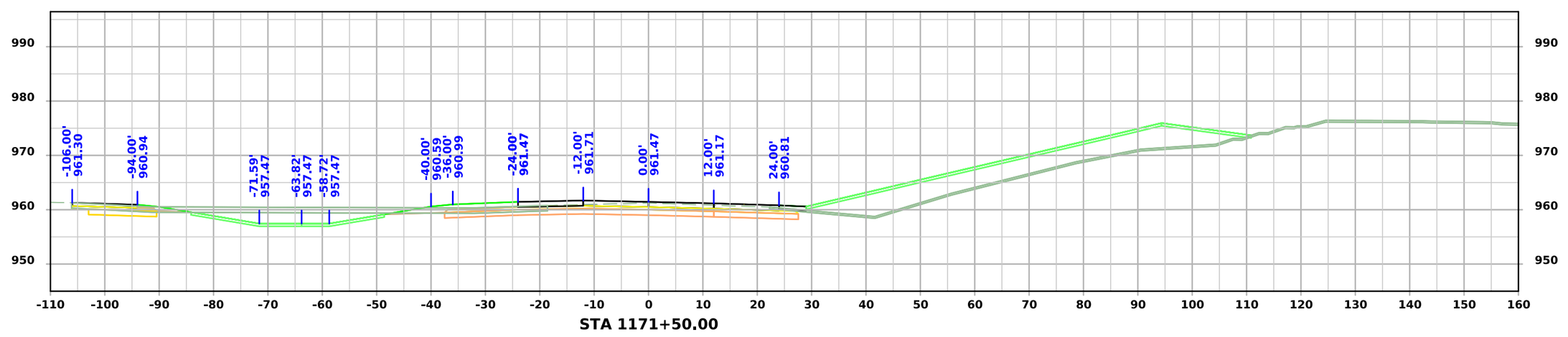
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10:02:19 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1172+00.00

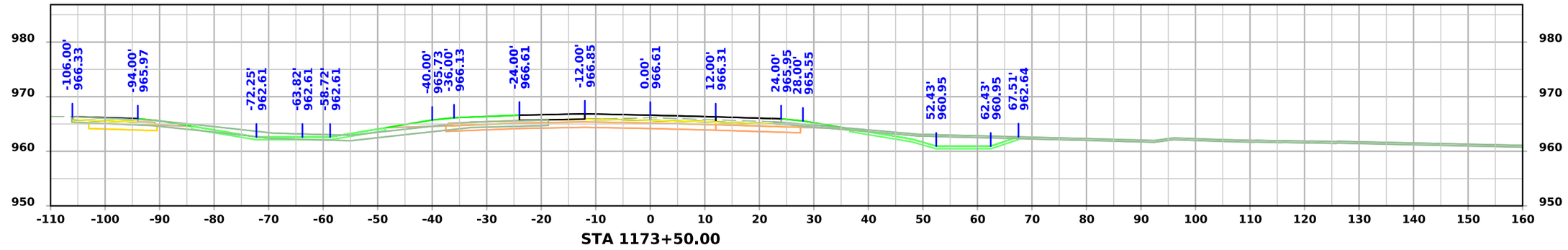


STA 1171+50.00

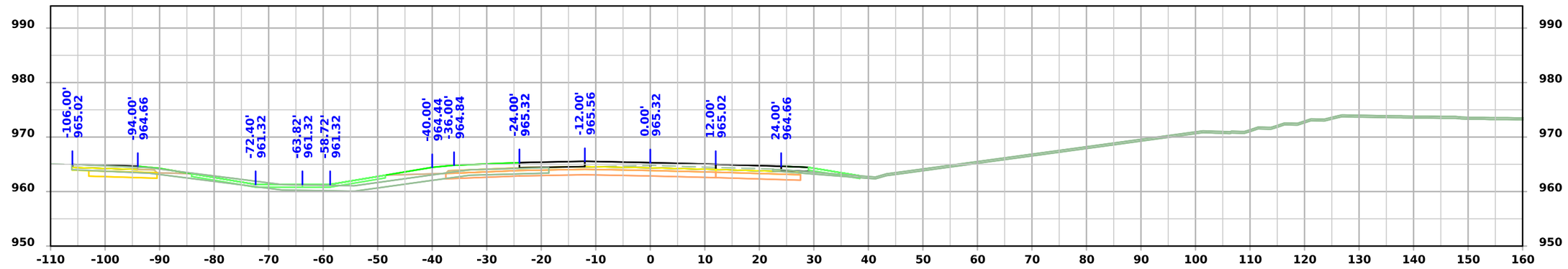
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.73

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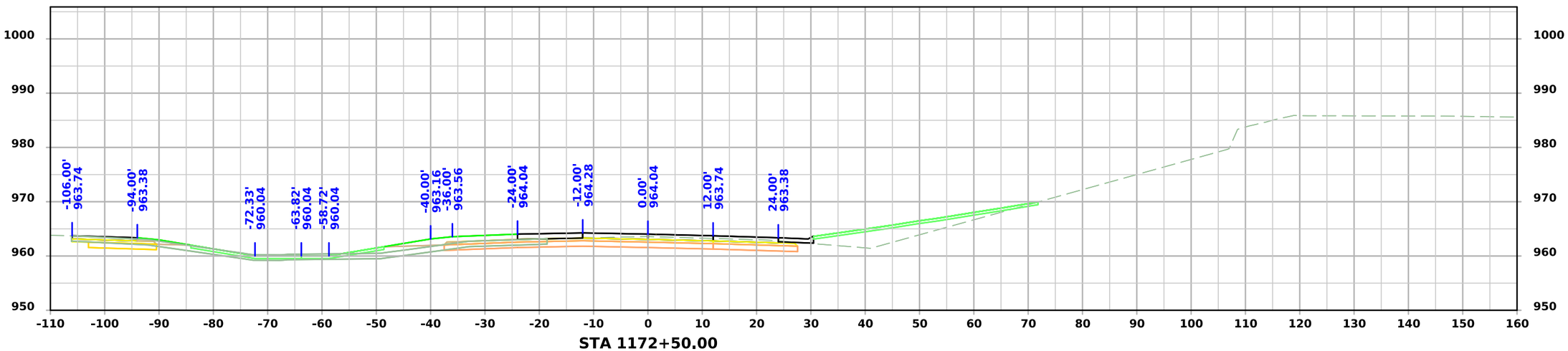
ML - I35 NB



STA 1173+50.00



STA 1173+00.00

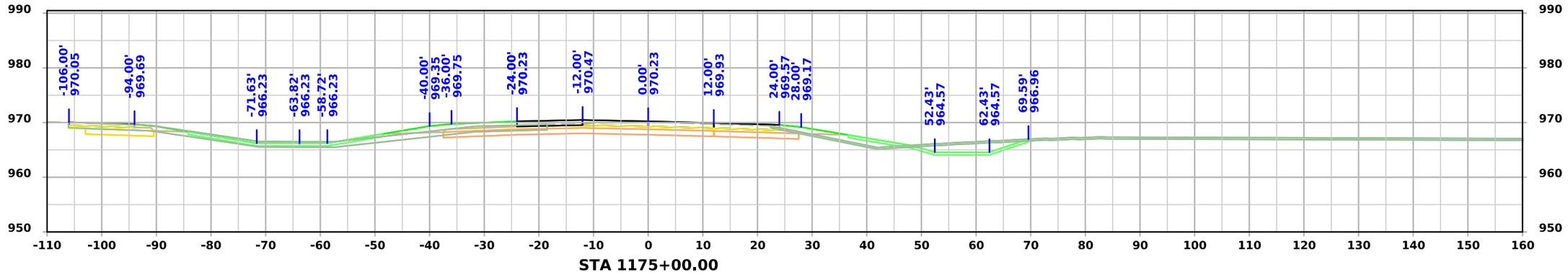


STA 1172+50.00

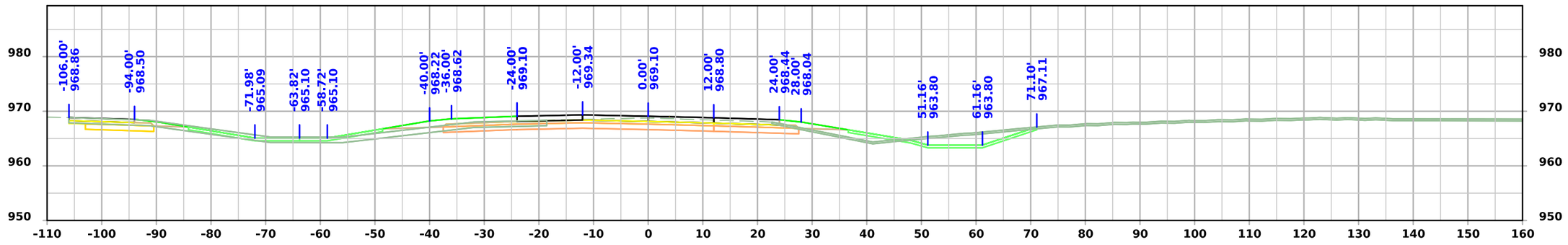
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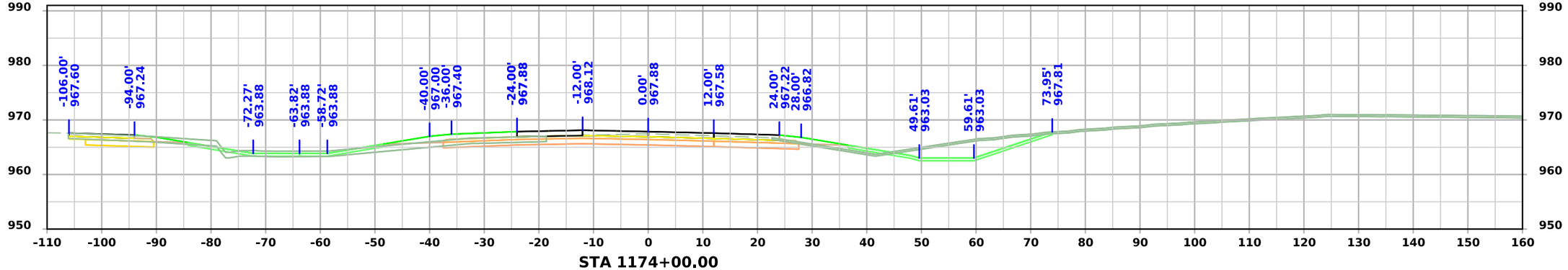
ML - I35 NB



STA 1175+00.00



STA 1174+50.00

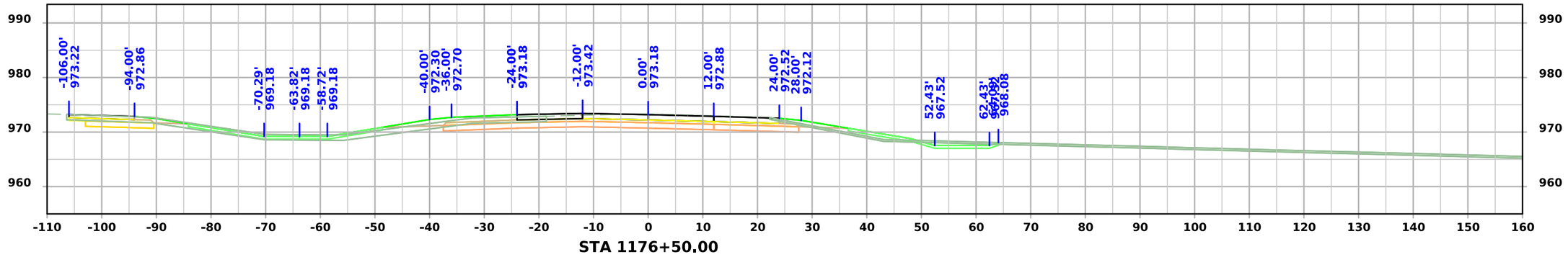


STA 1174+00.00

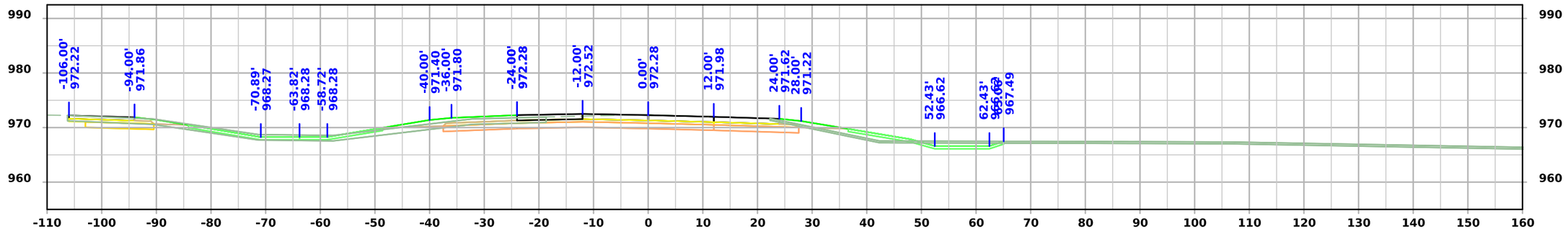
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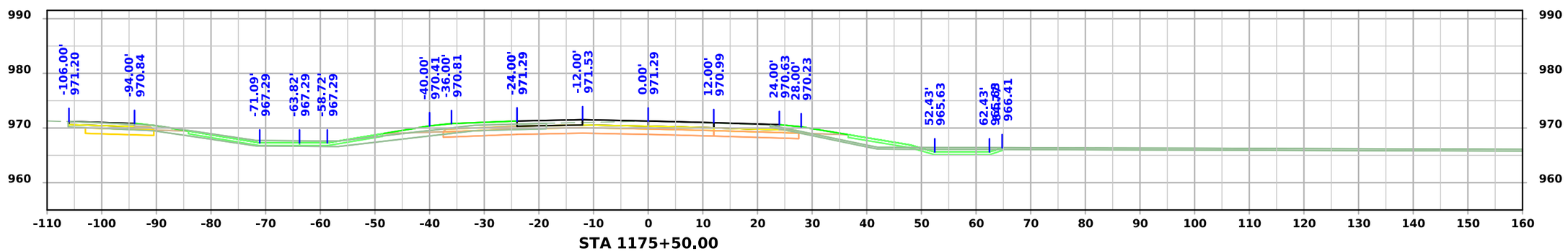
ML - I35 NB



STA 1176+50.00



STA 1176+00.00

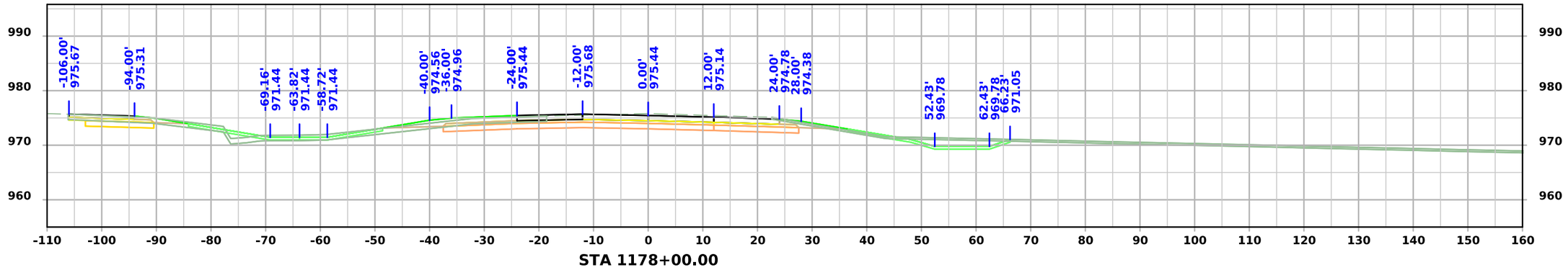


STA 1175+50.00

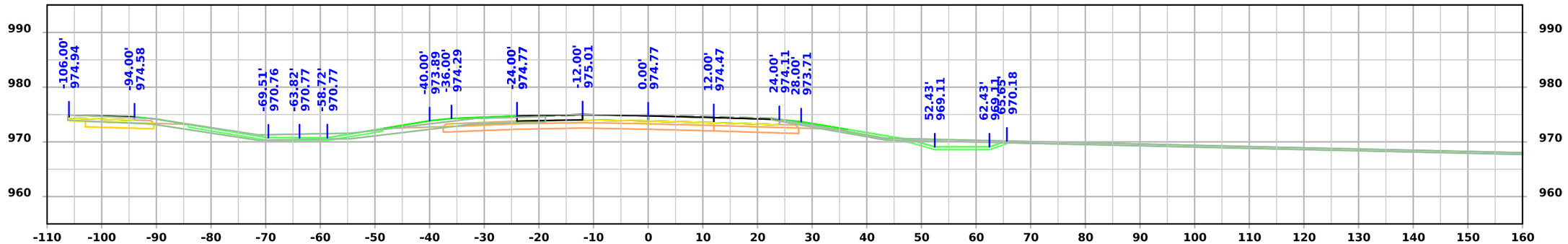
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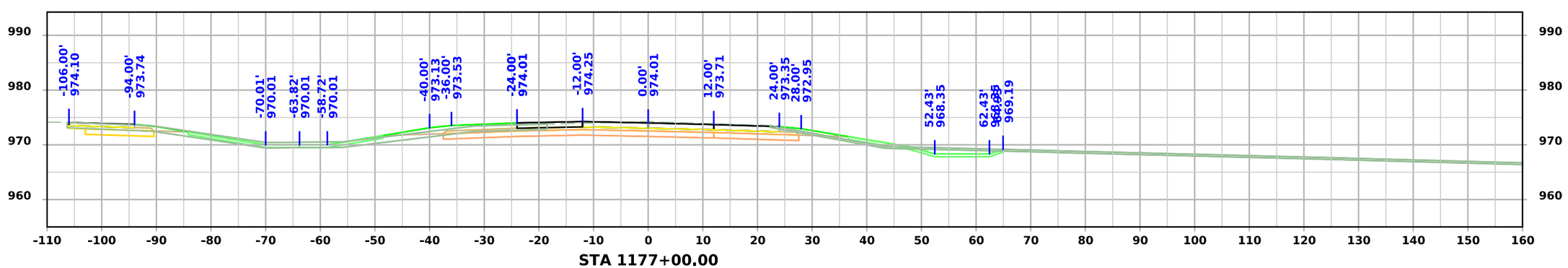
ML - I35 NB



STA 1178+00.00



STA 1177+50.00

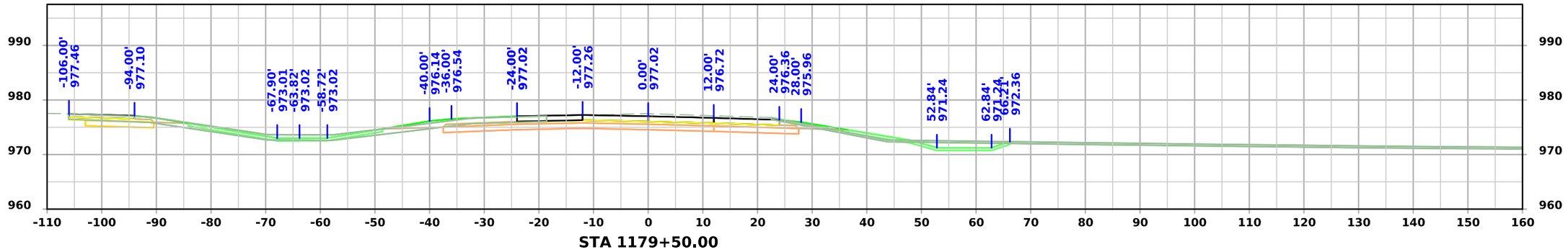


STA 1177+00.00

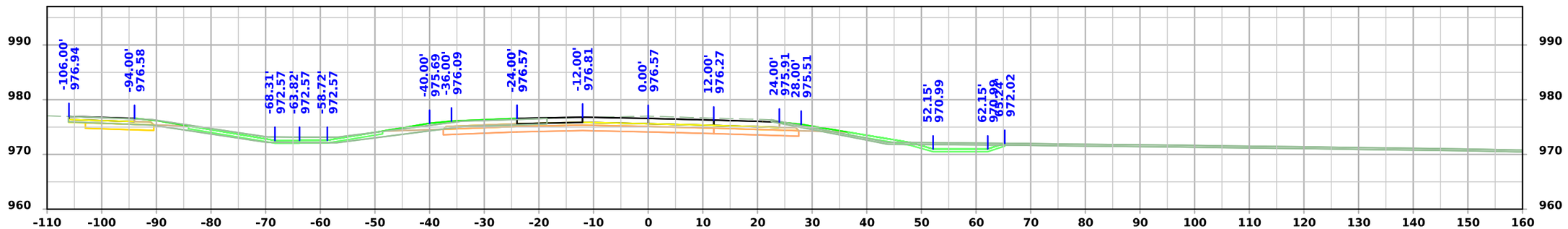
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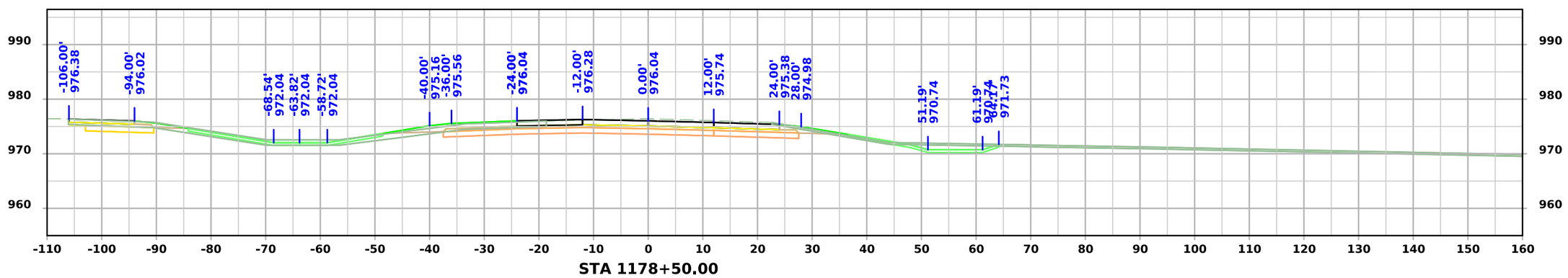
ML - I35 NB



STA 1179+50.00



STA 1179+00.00

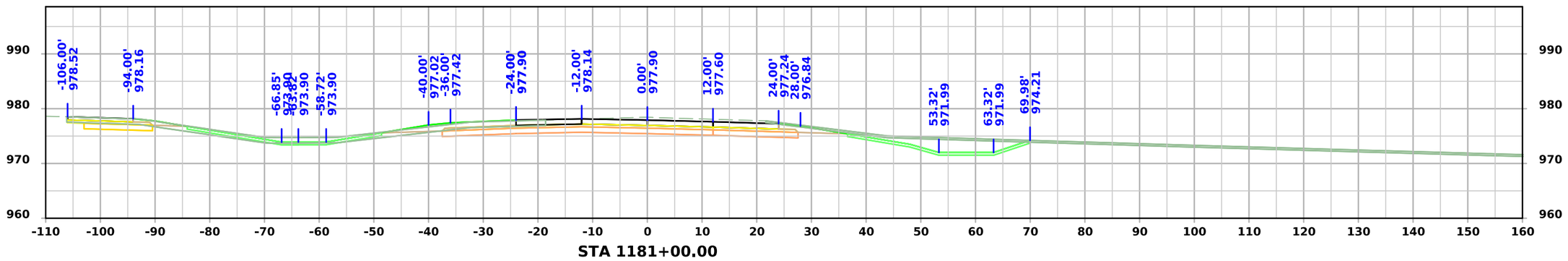


STA 1178+50.00

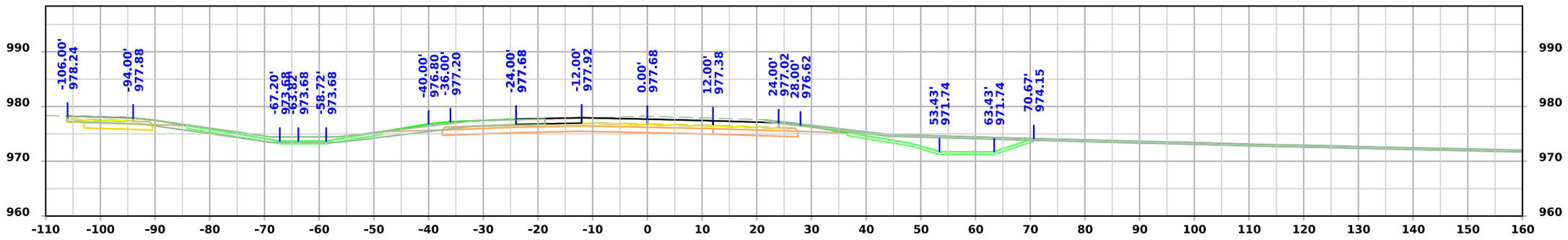
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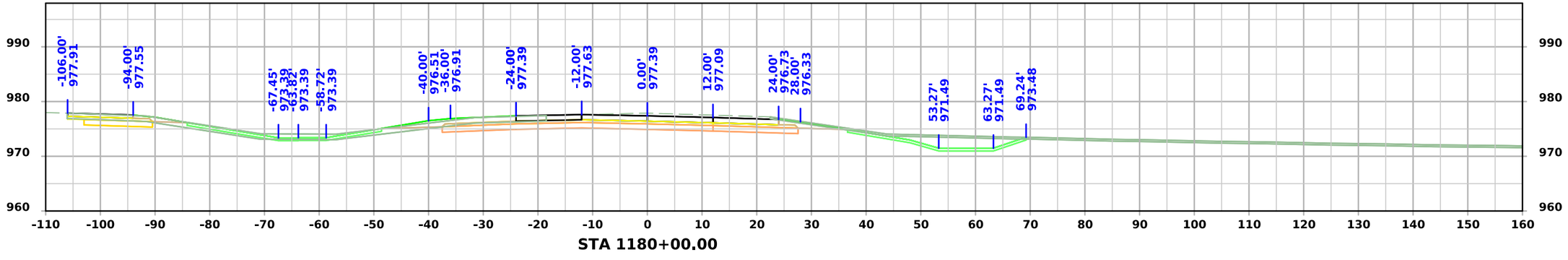
ML - I35 NB



STA 1181+00.00



STA 1180+50.00

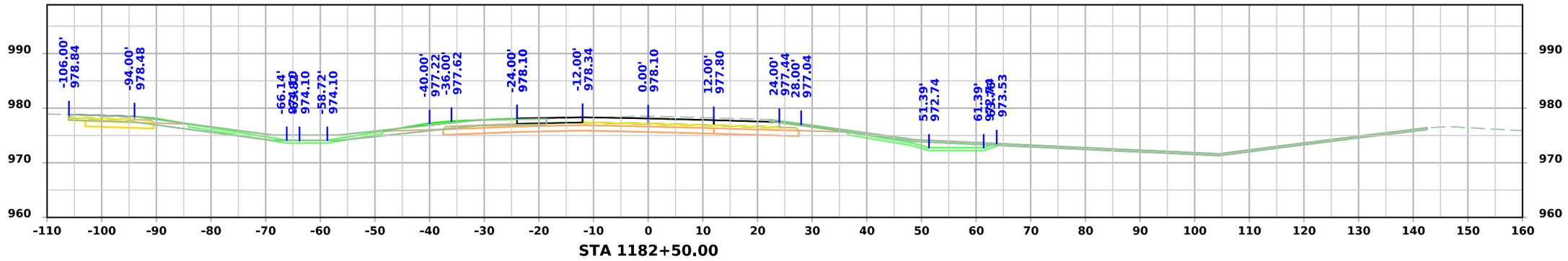


STA 1180+00.00

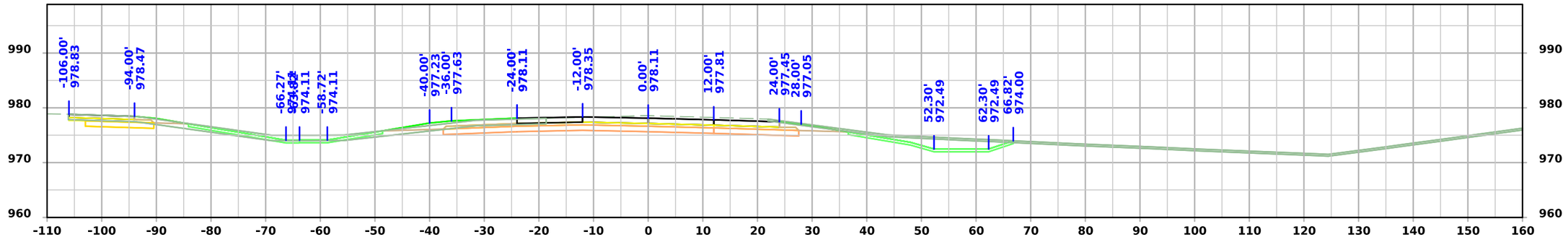
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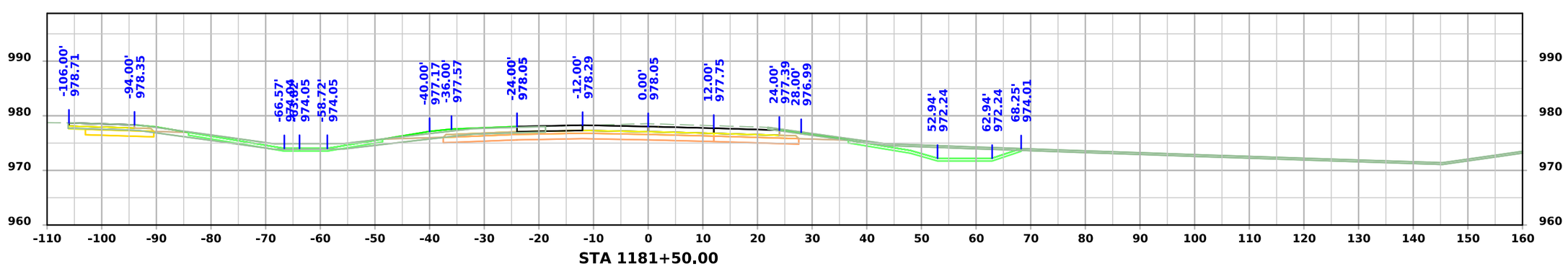
ML - I35 NB



STA 1182+50.00



STA 1182+00.00

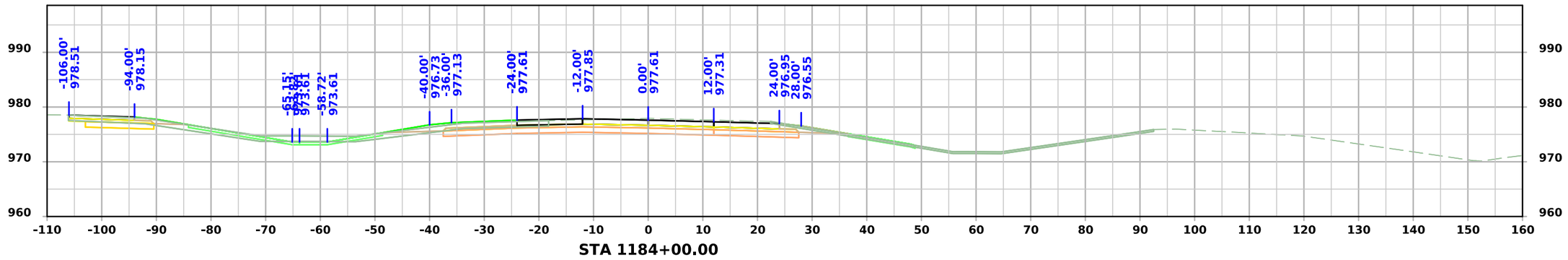


STA 1181+50.00

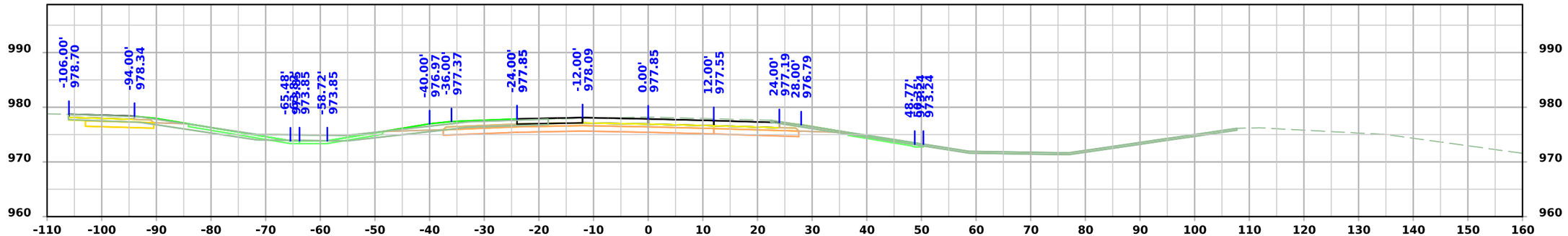
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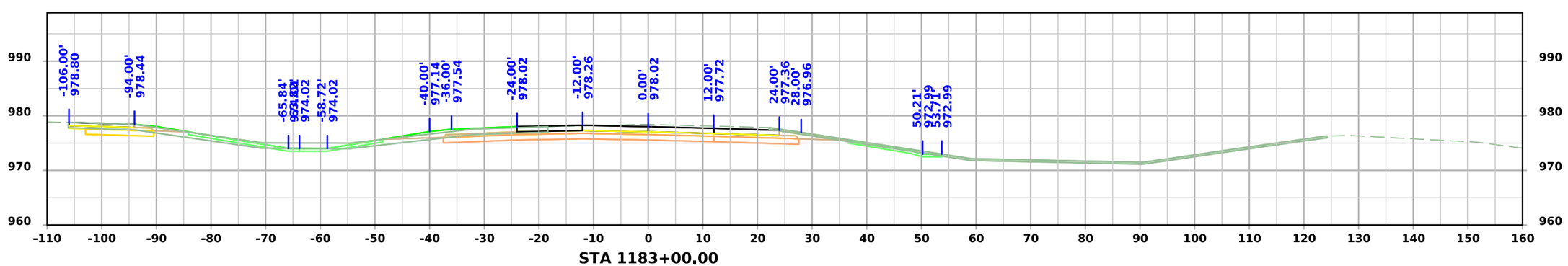
ML - I35 NB



STA 1184+00.00



STA 1183+50.00

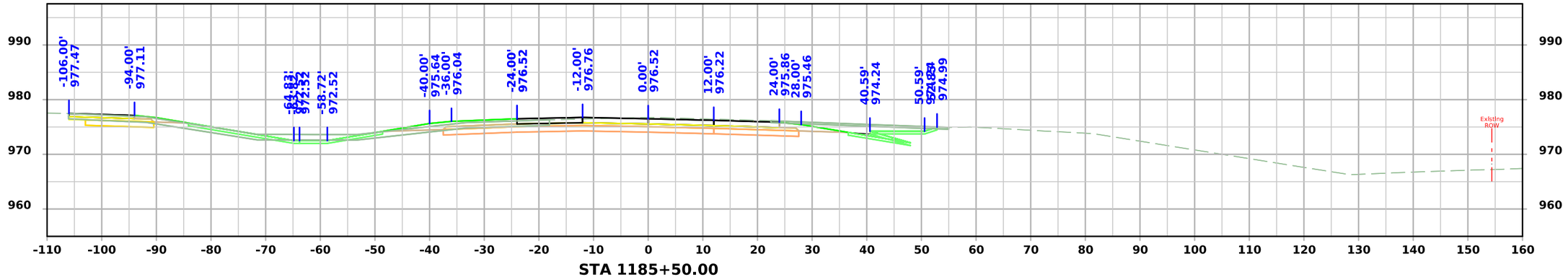


STA 1183+00.00

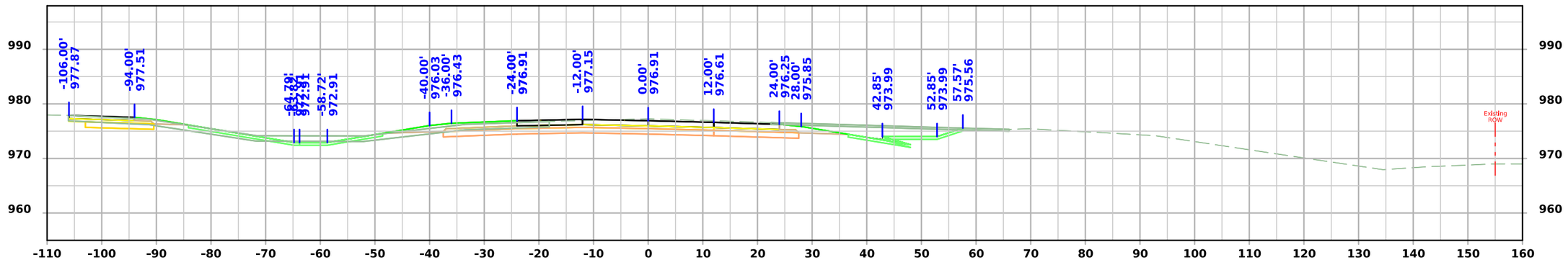
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.81

10:02:38 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

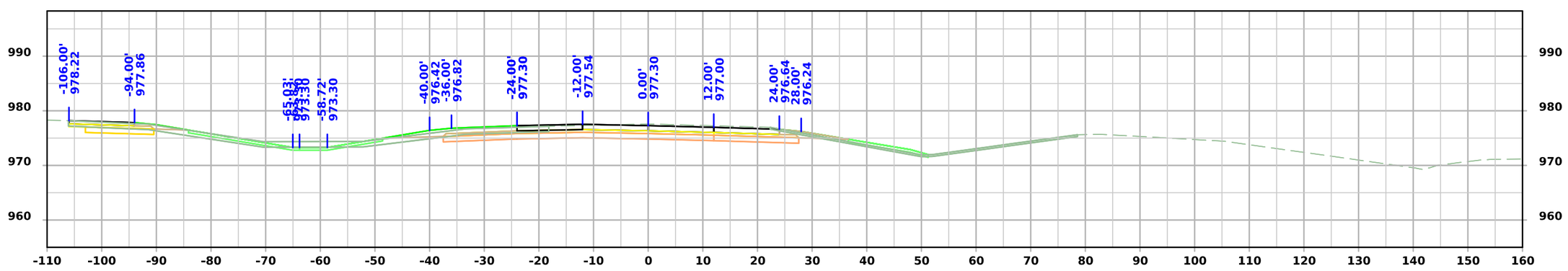
ML - I35 NB



STA 1185+50.00



STA 1185+00.00

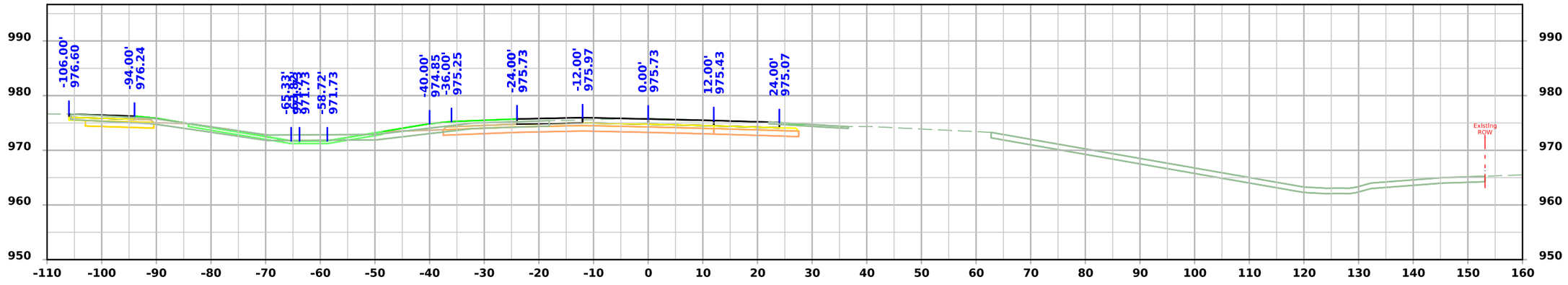


STA 1184+50.00

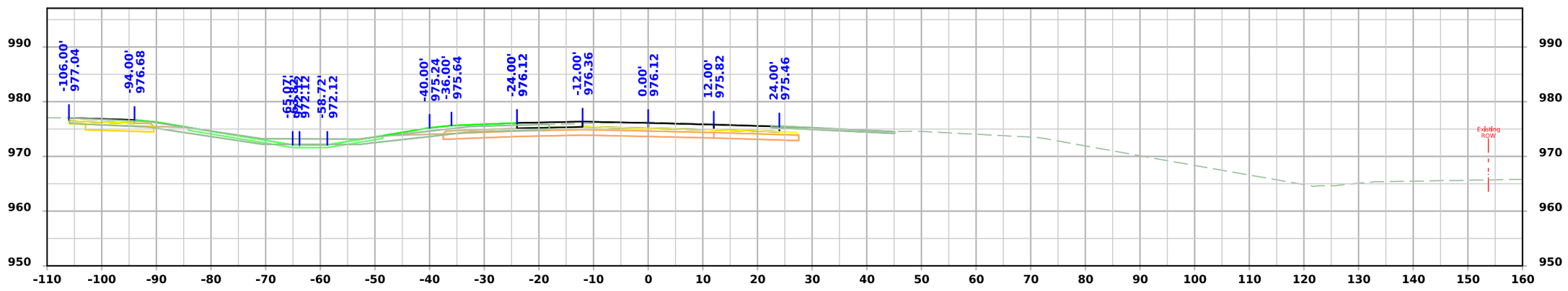
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10:02:40 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1186+50.00

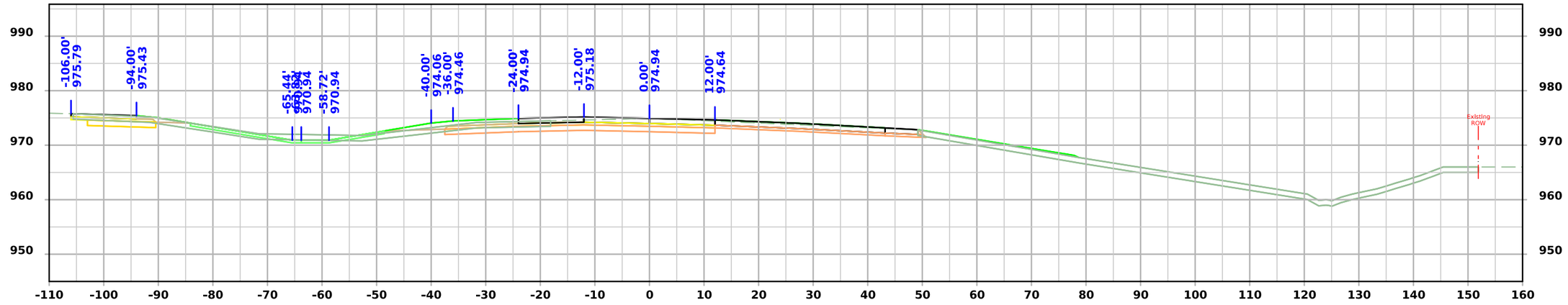


STA 1186+00.00

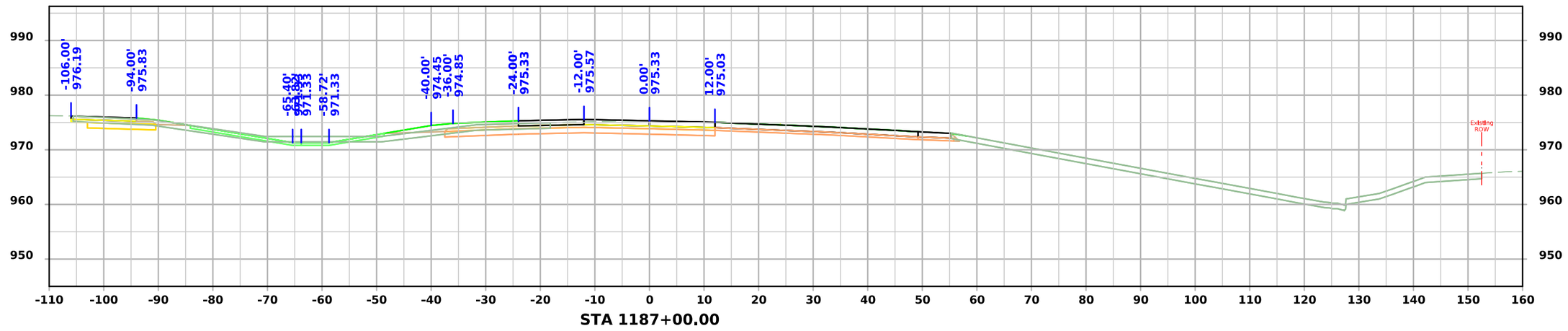
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10:02:42 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



STA 1187+50.00

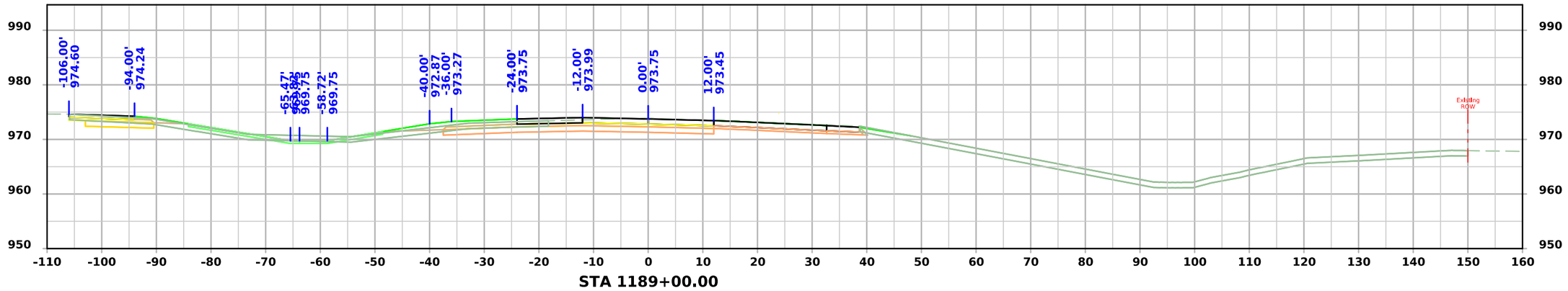


STA 1187+00.00

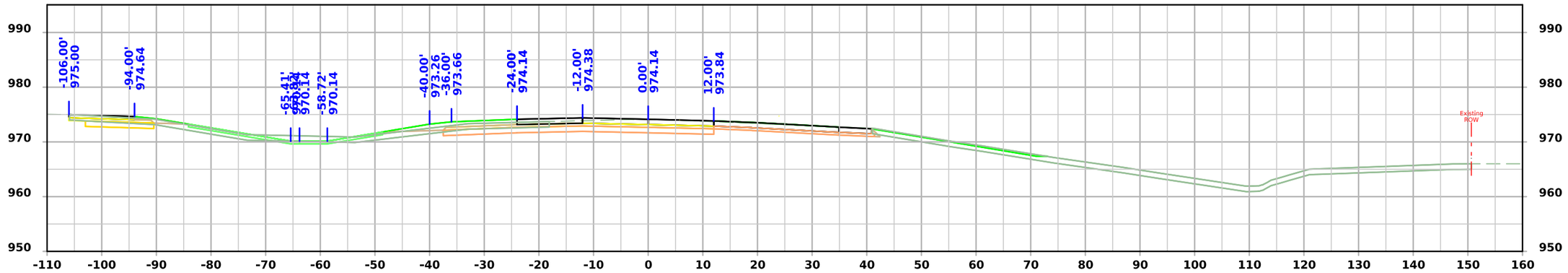
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10:02:44 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

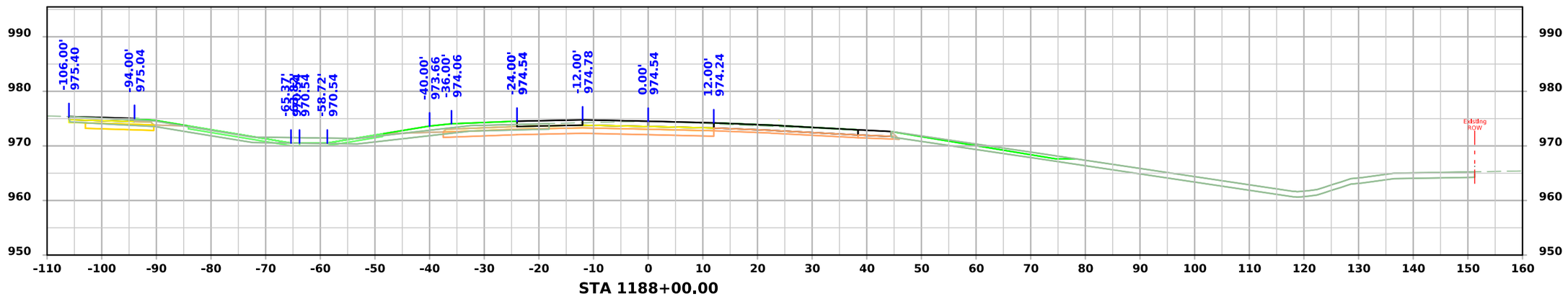
ML - I35 NB



STA 1189+00.00



STA 1188+50.00

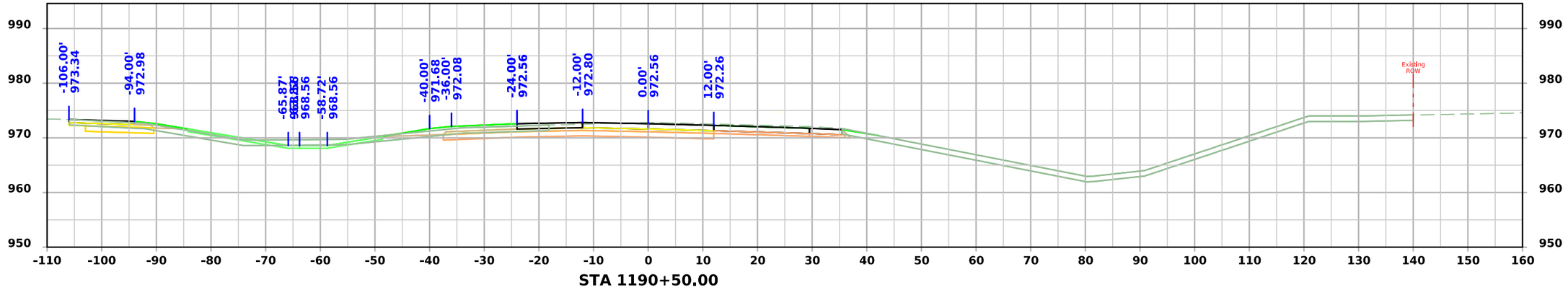


STA 1188+00.00

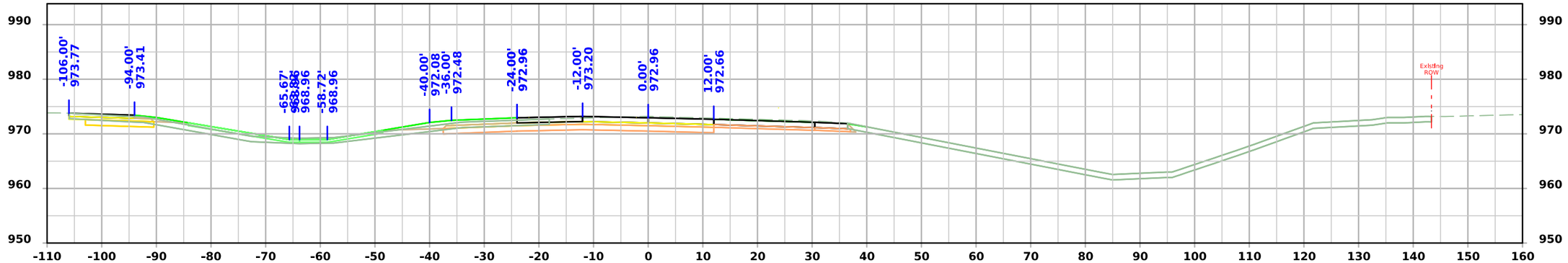
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10:02:46 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

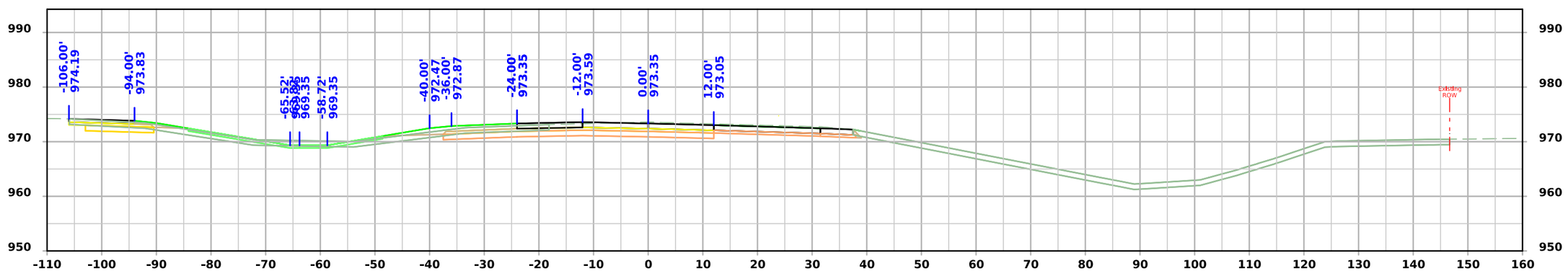
ML - I35 NB



STA 1190+50.00



STA 1190+00.00

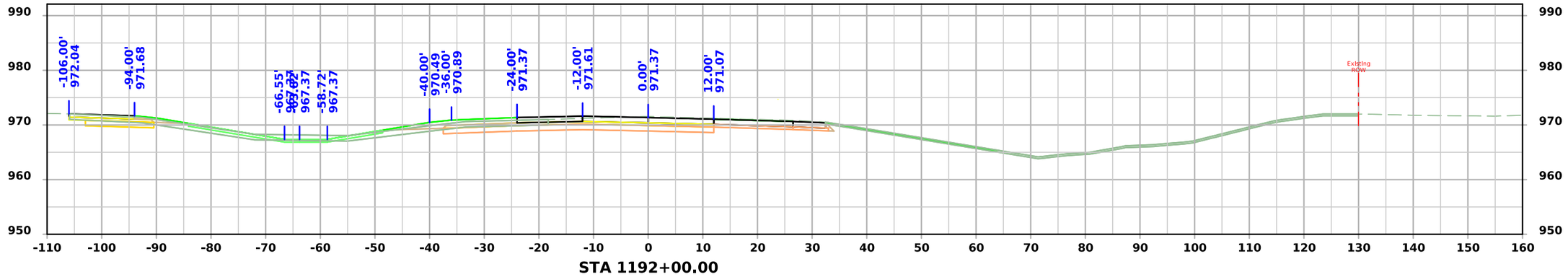


STA 1189+50.00

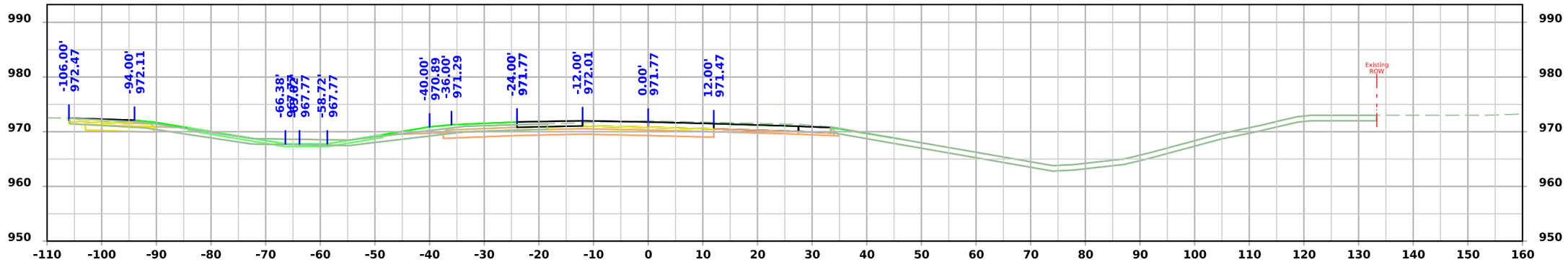
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10:02:49 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

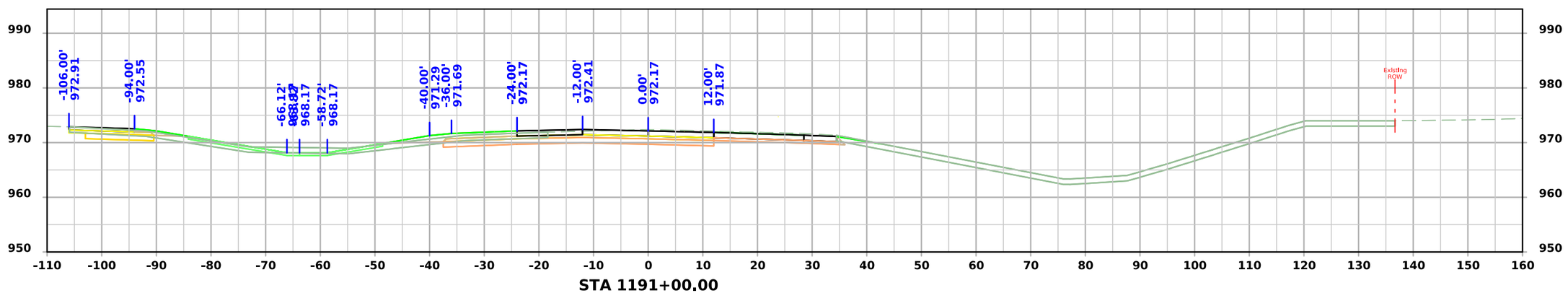
ML - I35 NB



STA 1192+00.00



STA 1191+50.00

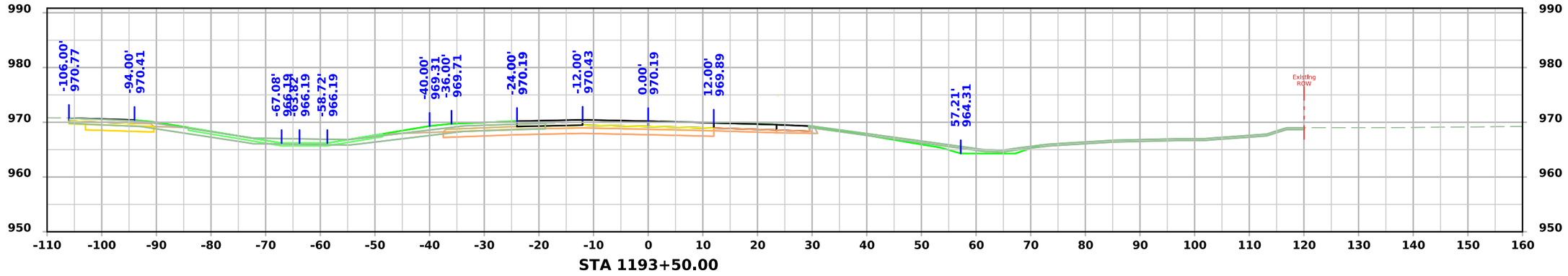


STA 1191+00.00

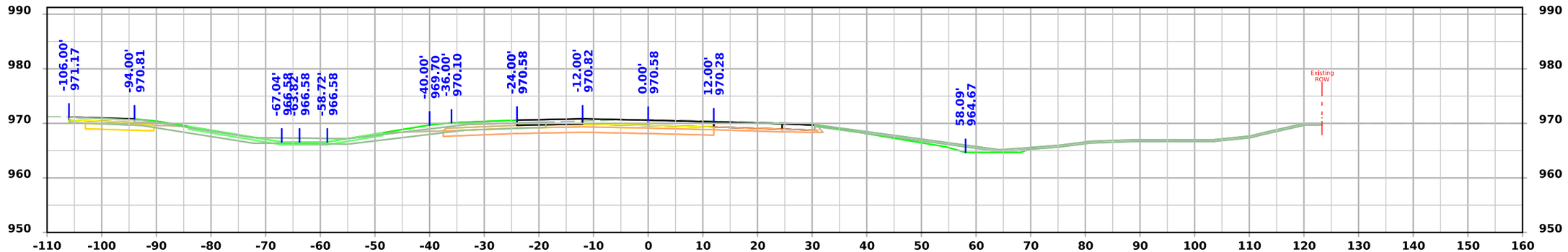
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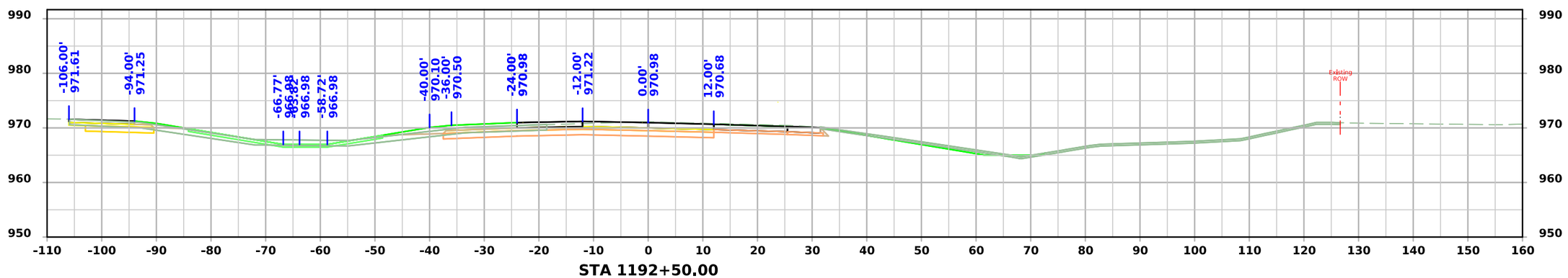
ML - I35 NB



STA 1193+50.00



STA 1193+00.00

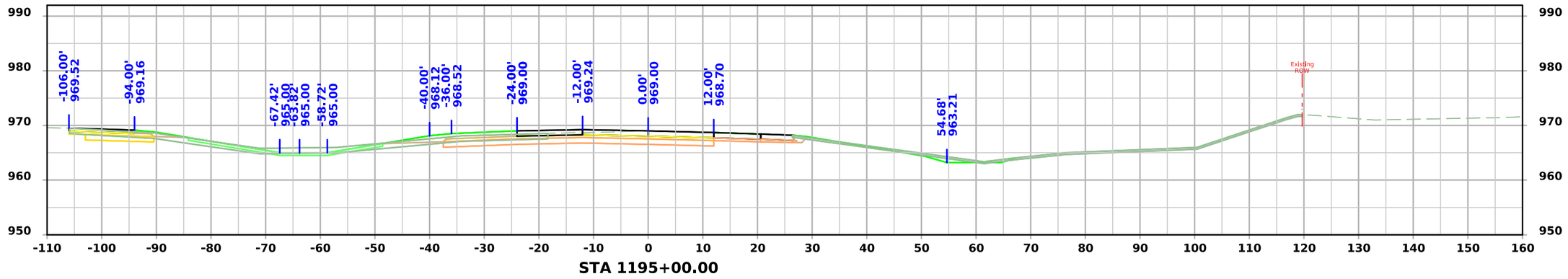


STA 1192+50.00

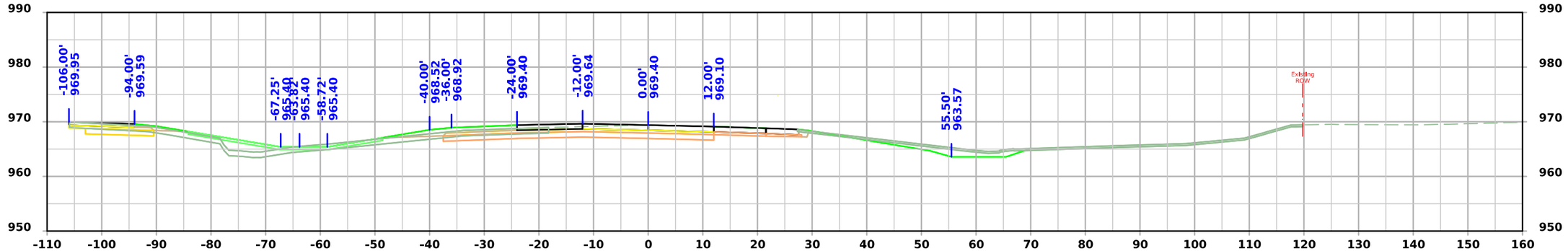
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.88

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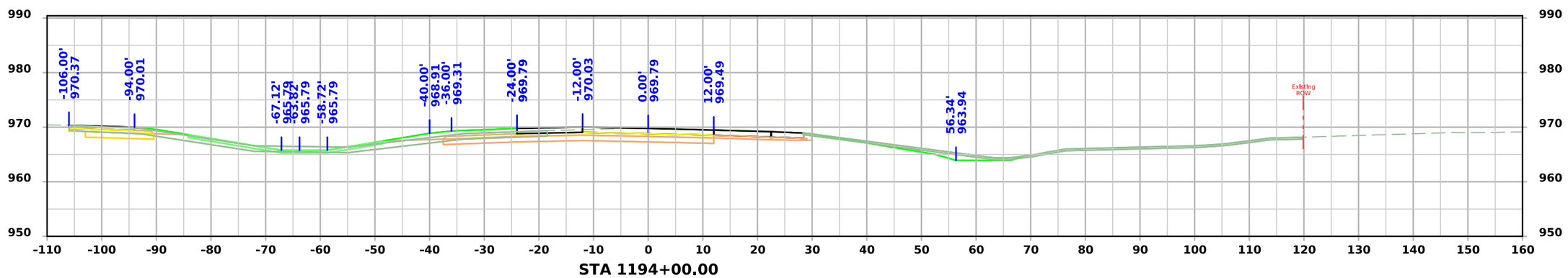
ML - I35 NB



STA 1195+00.00



STA 1194+50.00

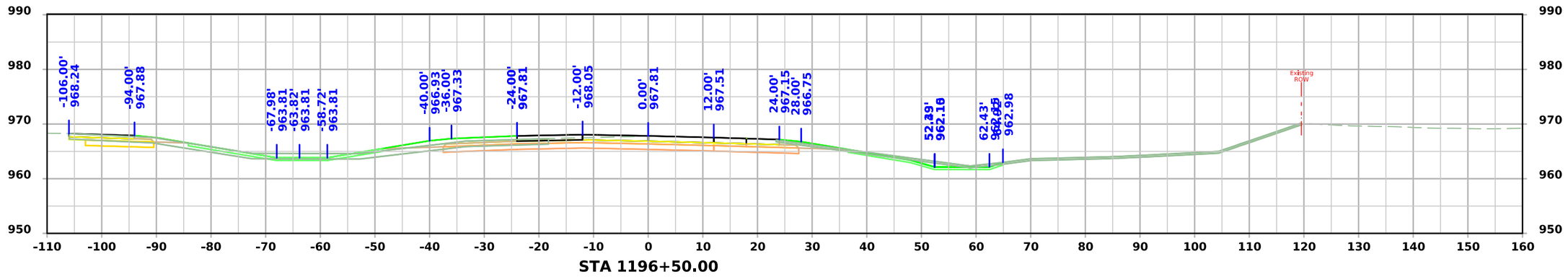


STA 1194+00.00

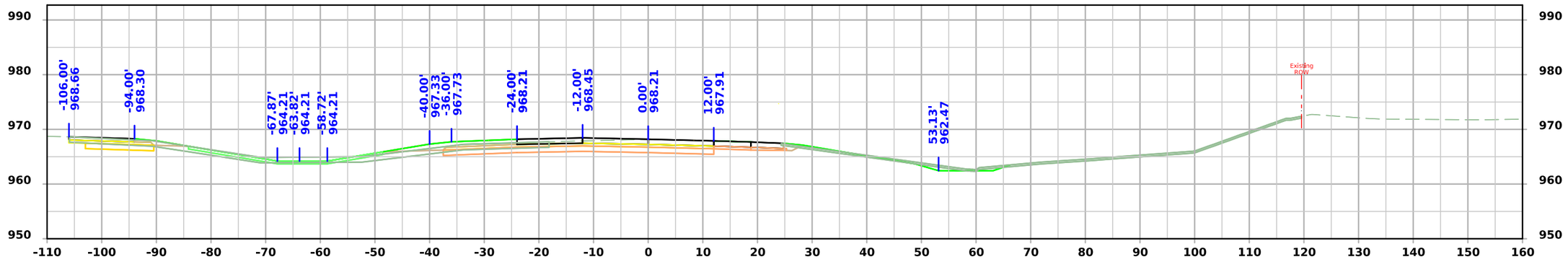
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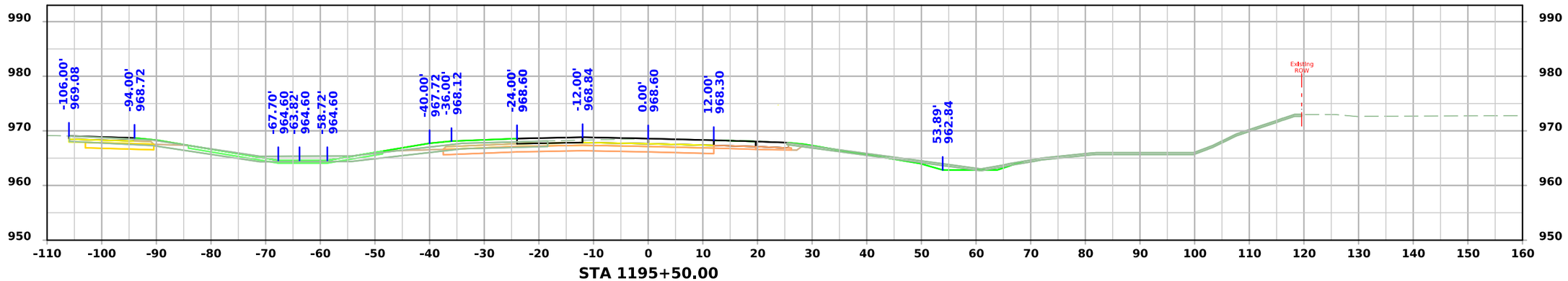
ML - I35 NB



STA 1196+50.00



STA 1196+00.00

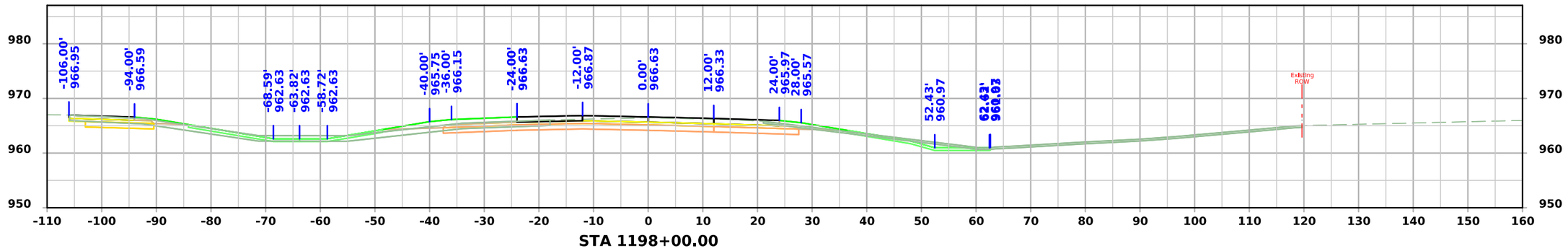


STA 1195+50.00

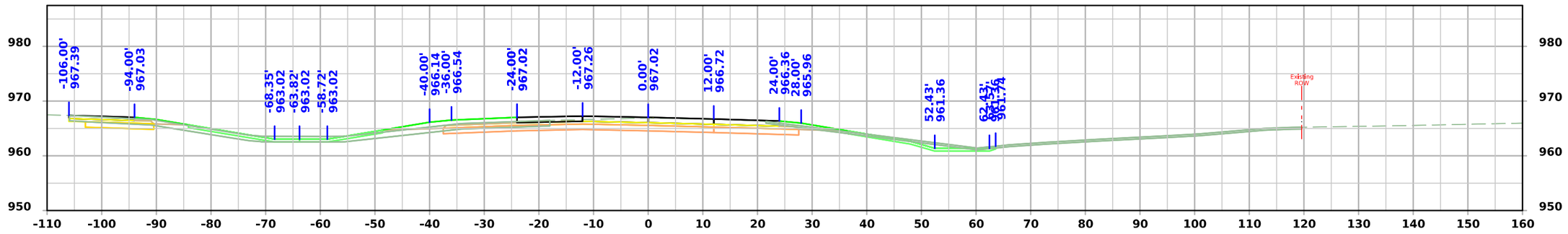
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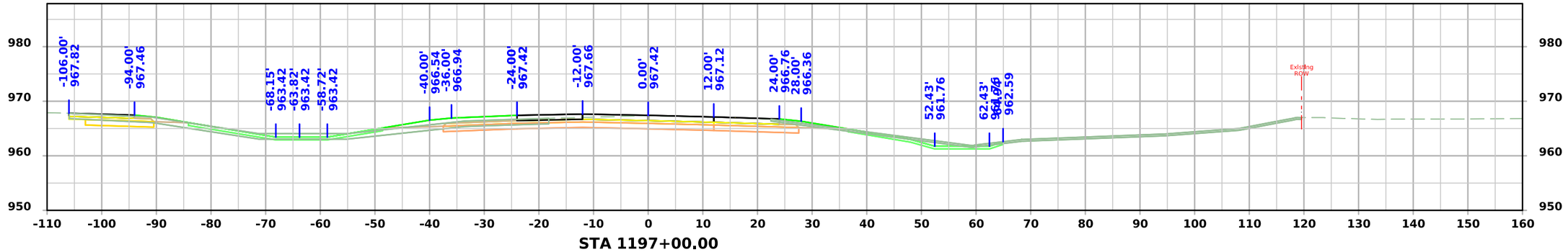
ML - I35 NB



STA 1198+00.00



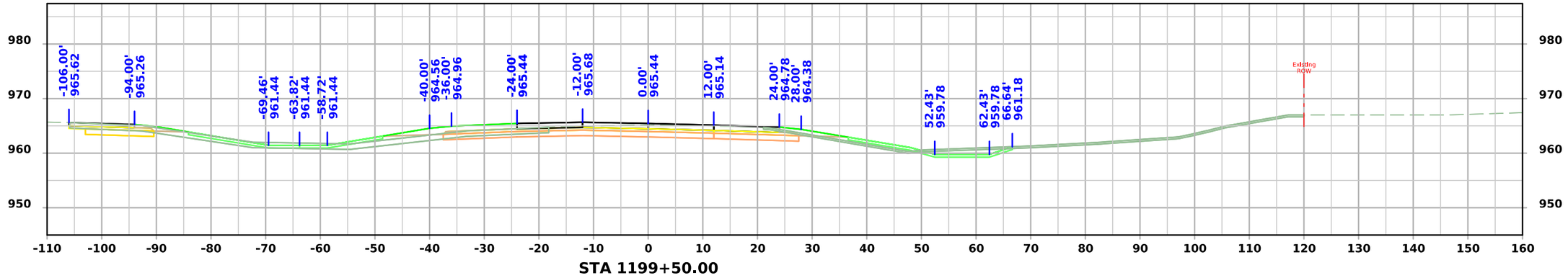
STA 1197+50.00



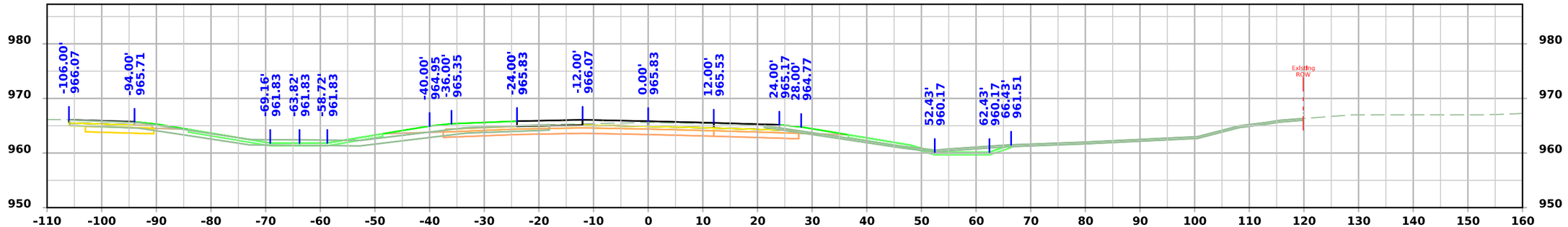
STA 1197+00.00

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

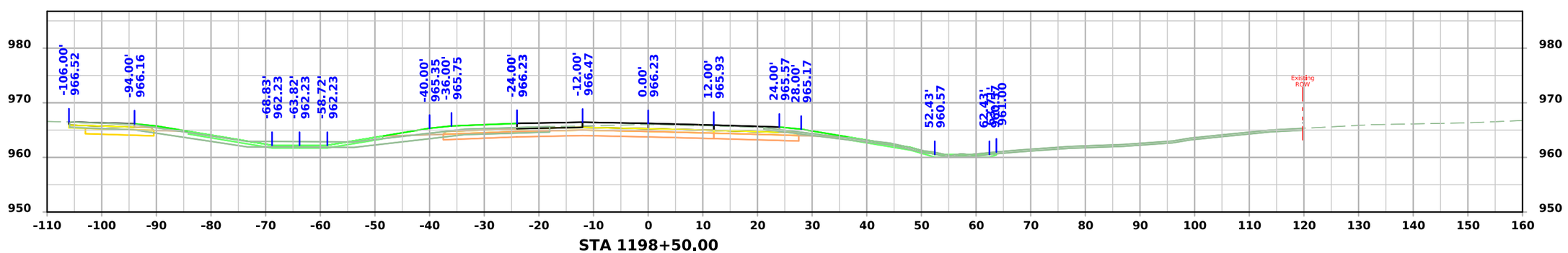
ML - I35 NB



STA 1199+50.00



STA 1199+00.00

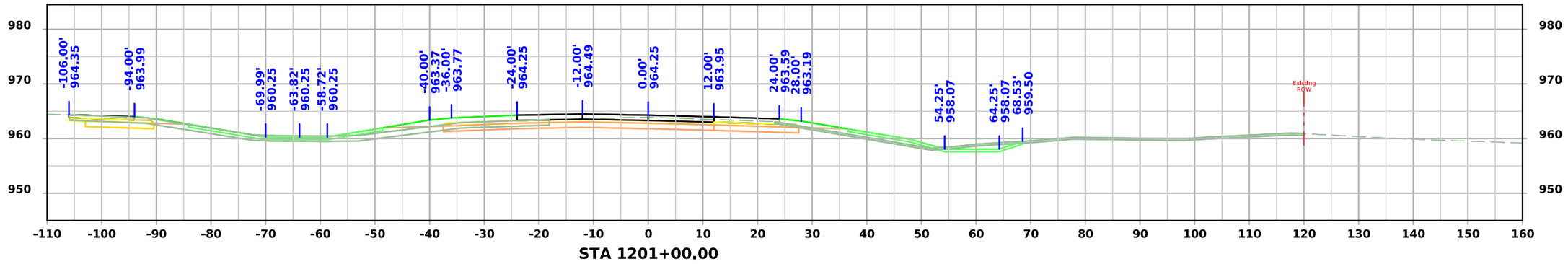


STA 1198+50.00

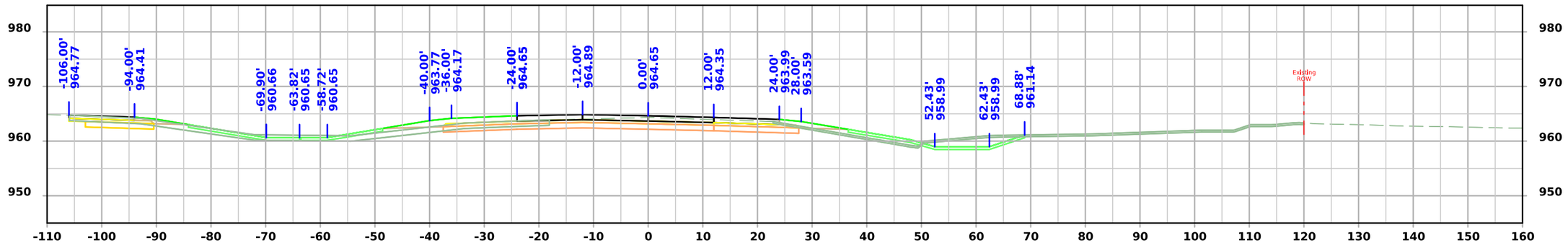
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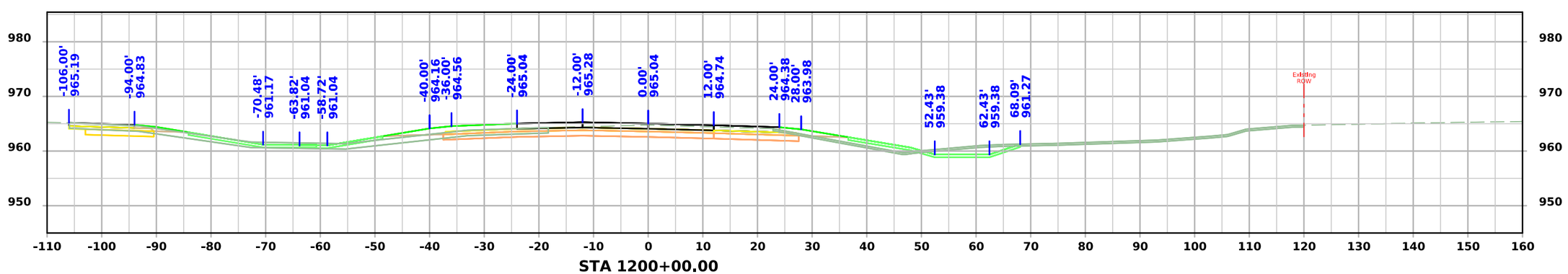
ML - I35 NB



STA 1201+00.00



STA 1200+50.00

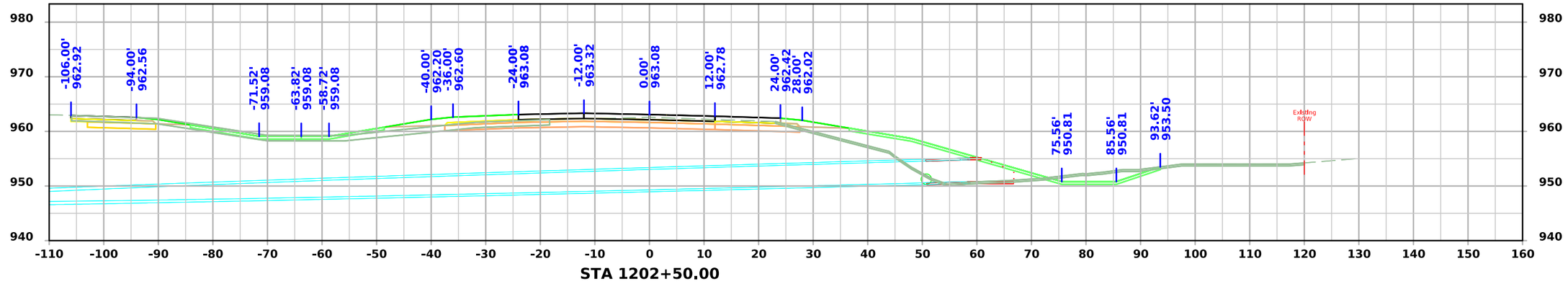


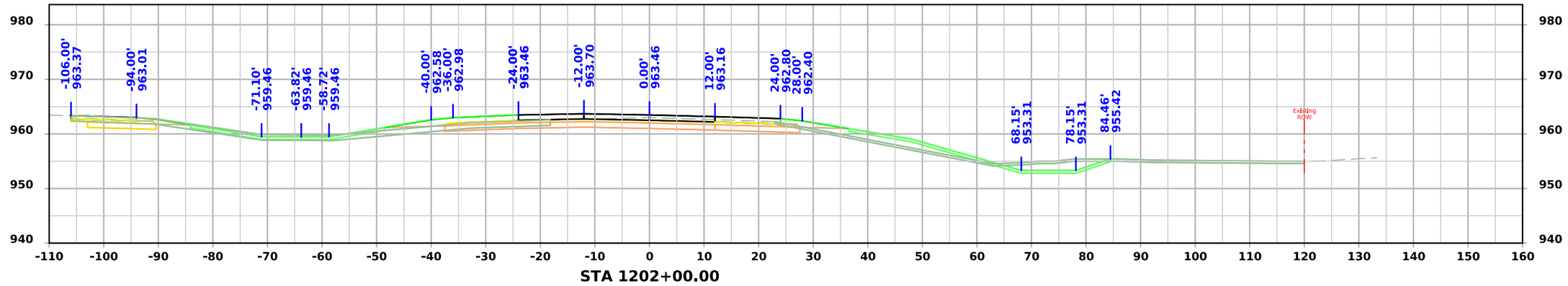
STA 1200+00.00

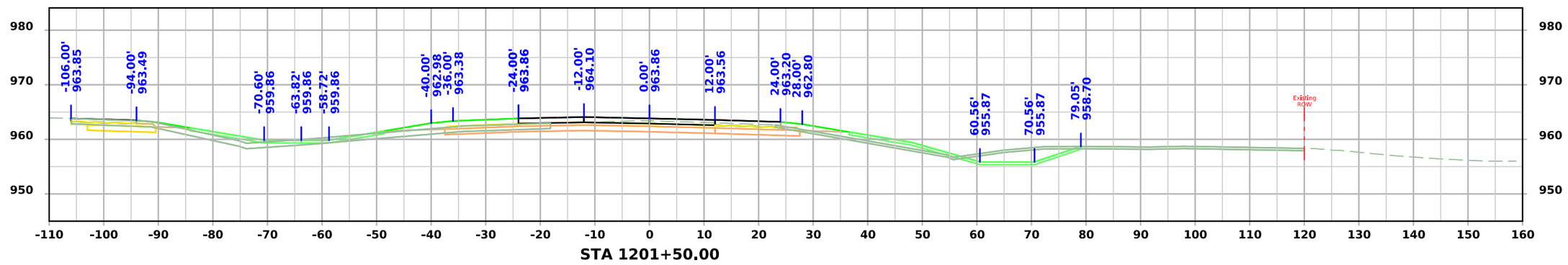
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.93

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ML - I35 NB



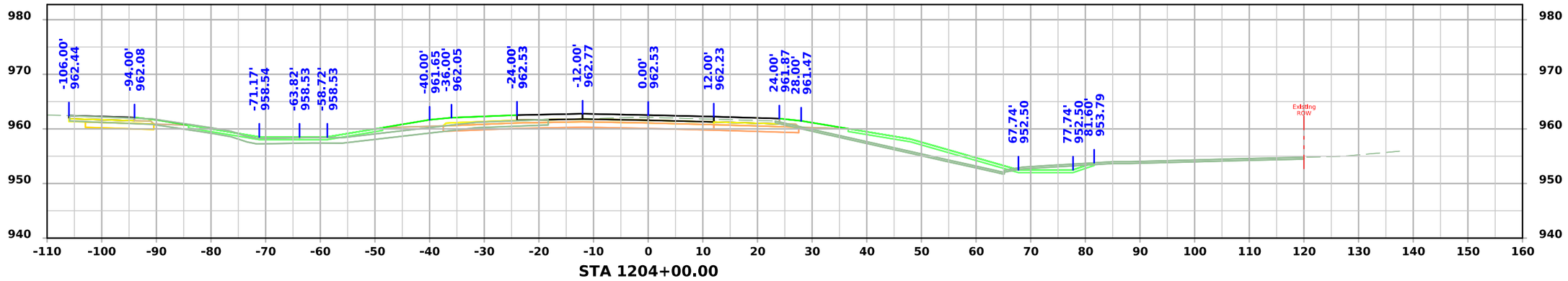




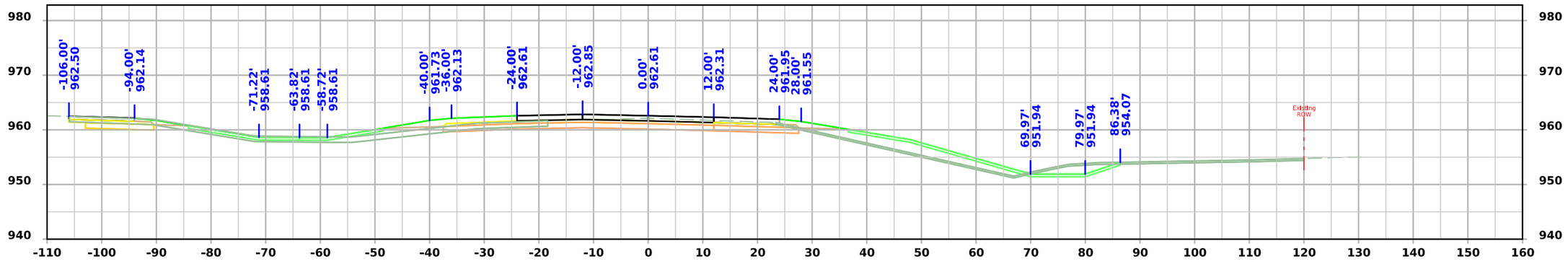
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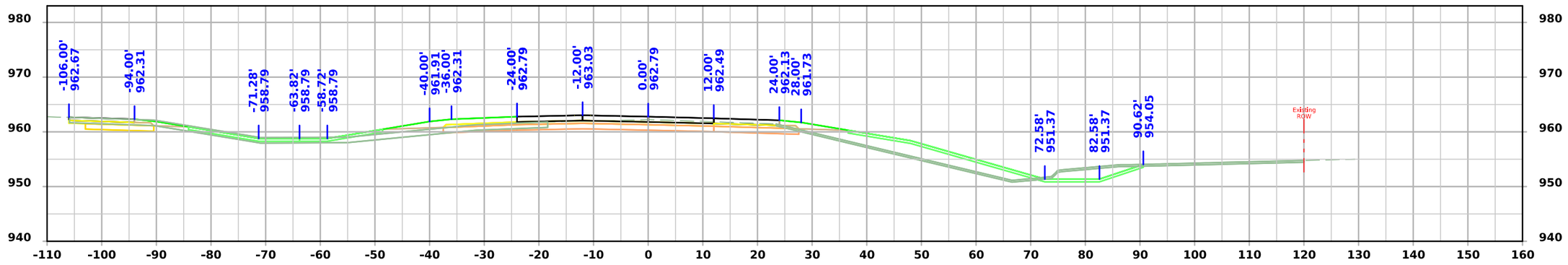
ML - I35 NB



STA 1204+00.00



STA 1203+50.00

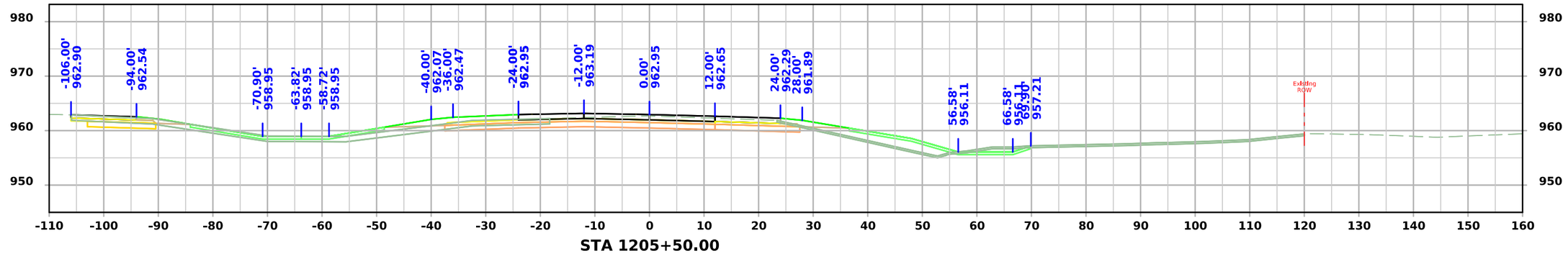


STA 1203+00.00

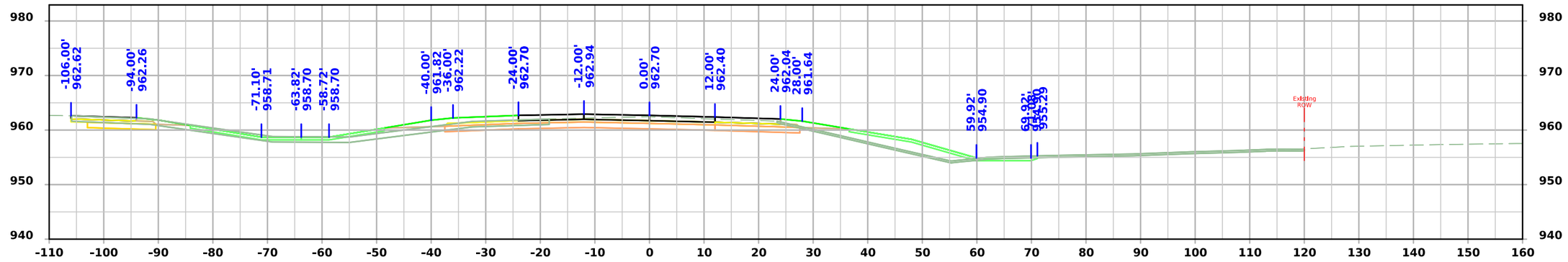
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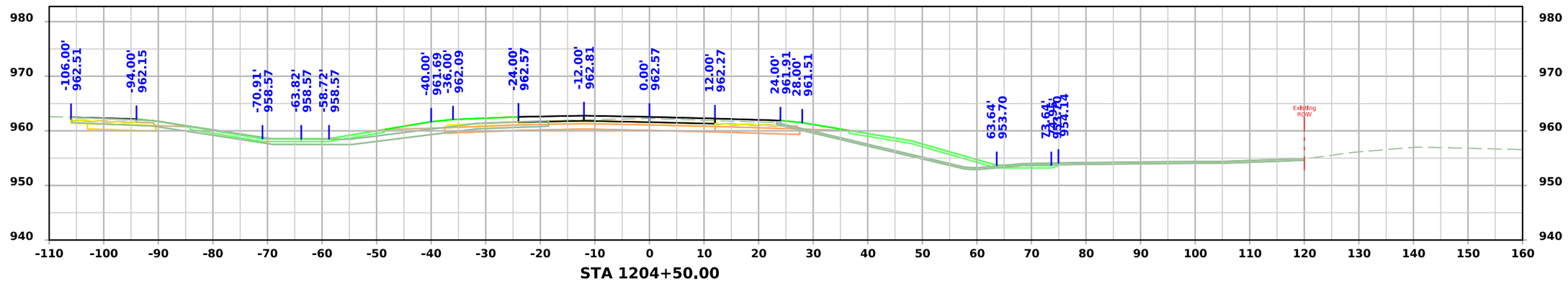
ML - I35 NB



STA 1205+50.00



STA 1205+00.00

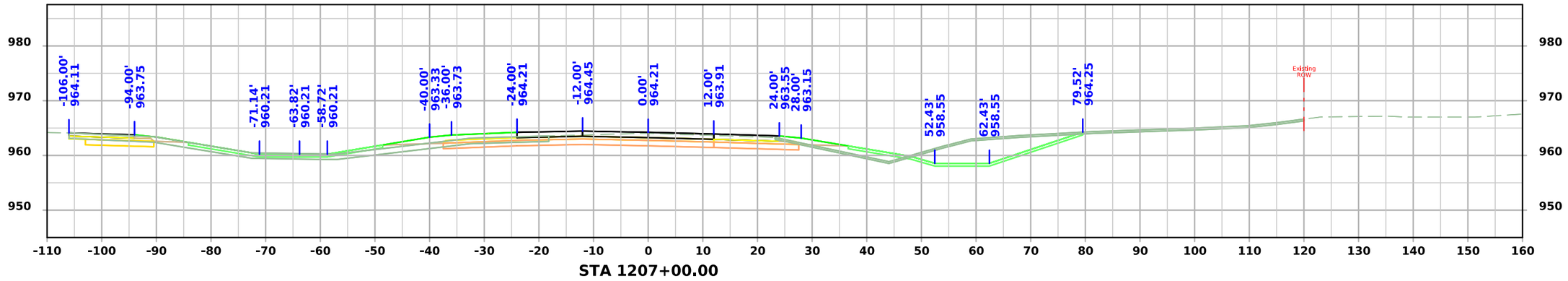


STA 1204+50.00

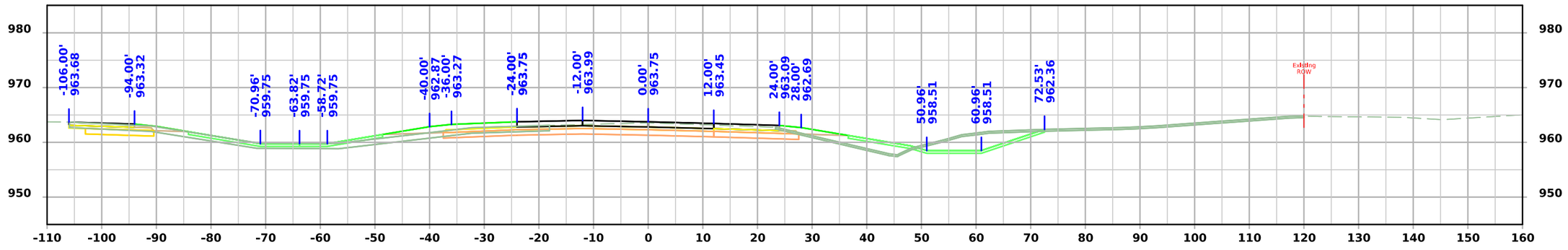
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.96

10:03:14 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

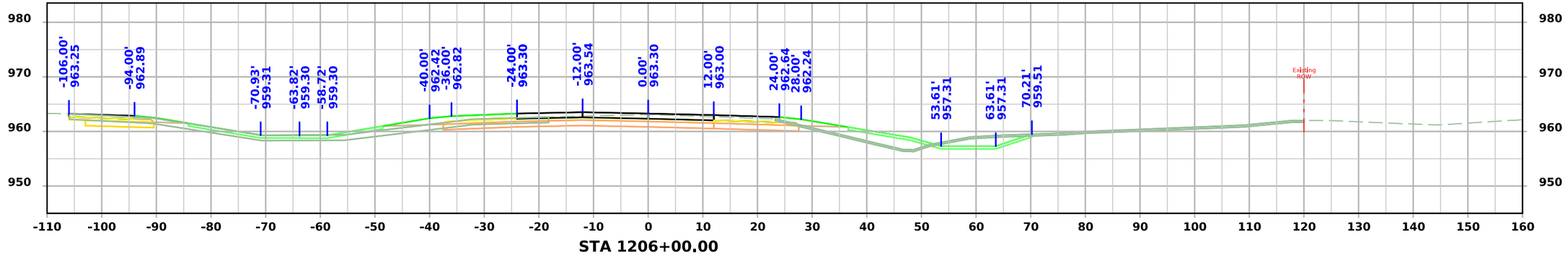
ML - I35 NB



STA 1207+00.00



STA 1206+50.00

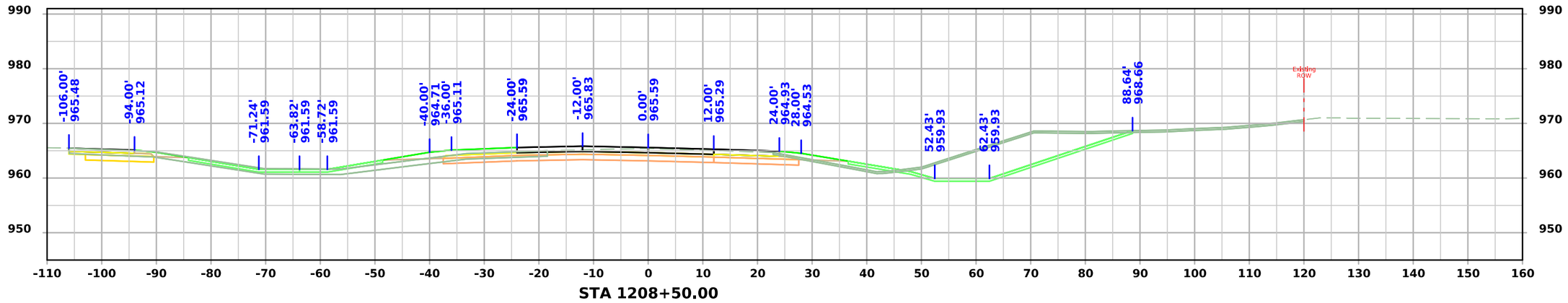


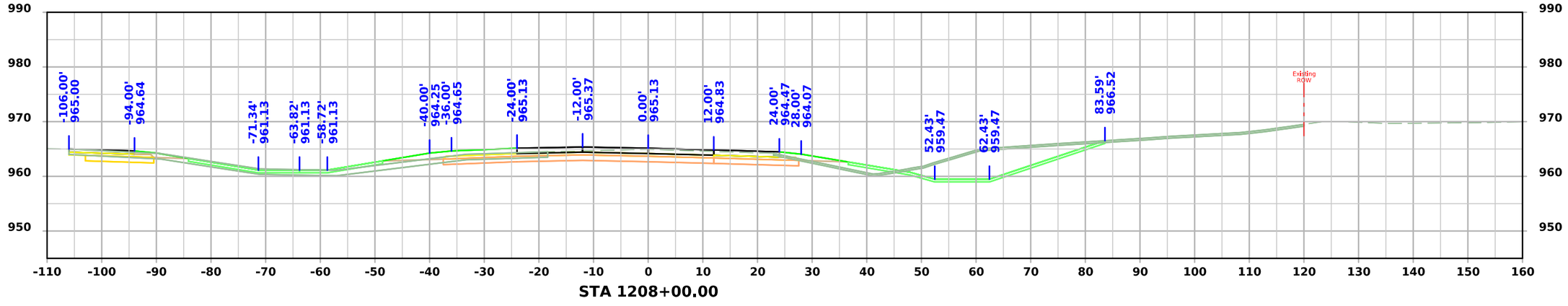
STA 1206+00.00

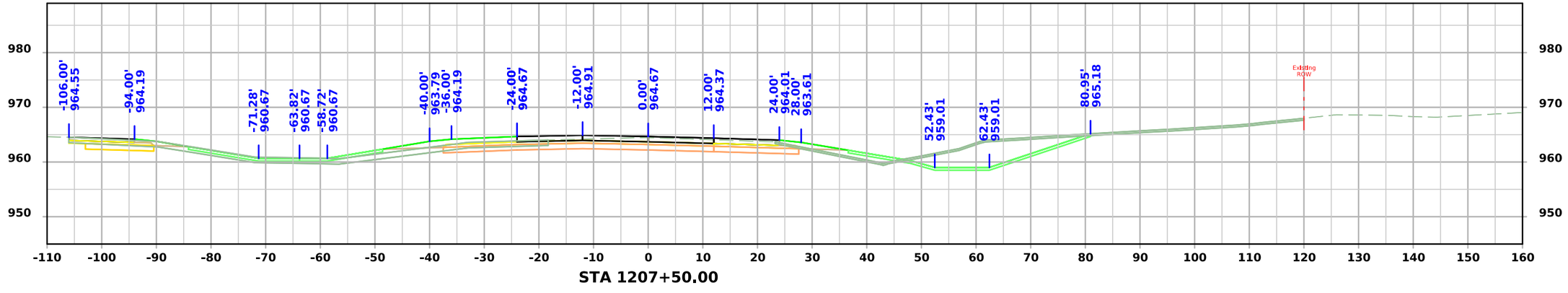
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10:03:16 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



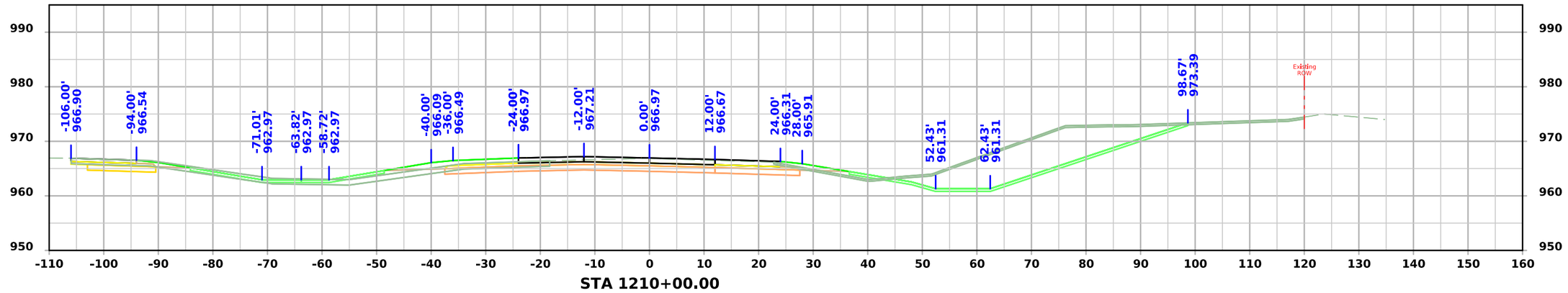




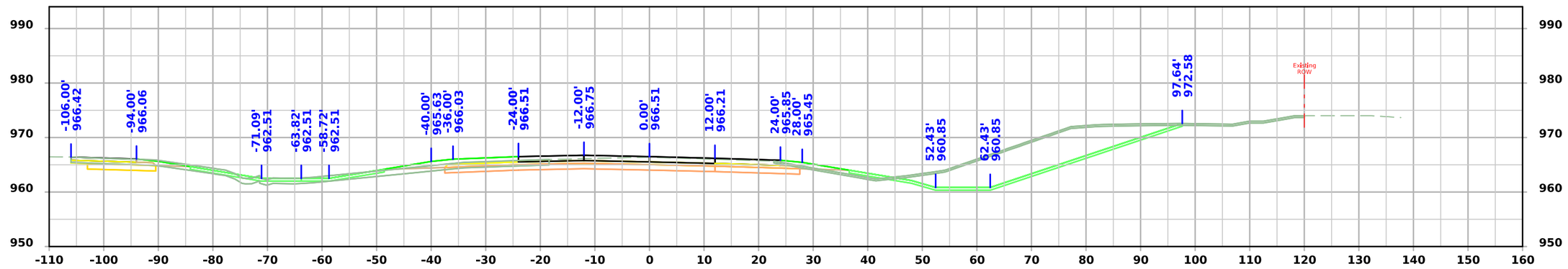
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.98

10:03:18 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

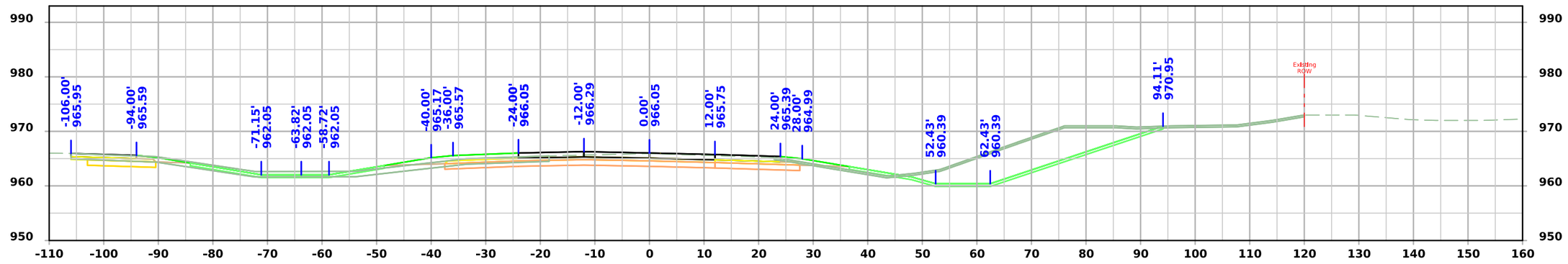
ML - I35 NB



STA 1210+00.00



STA 1209+50.00

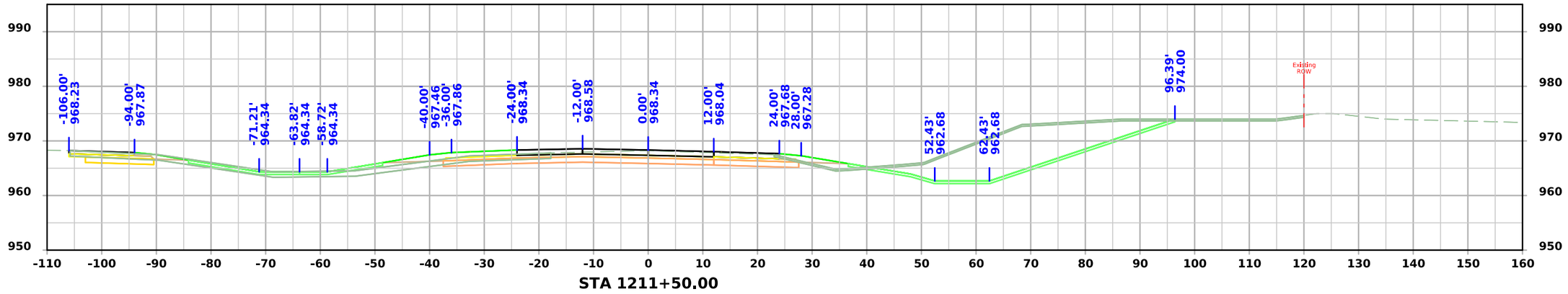


STA 1209+00.00

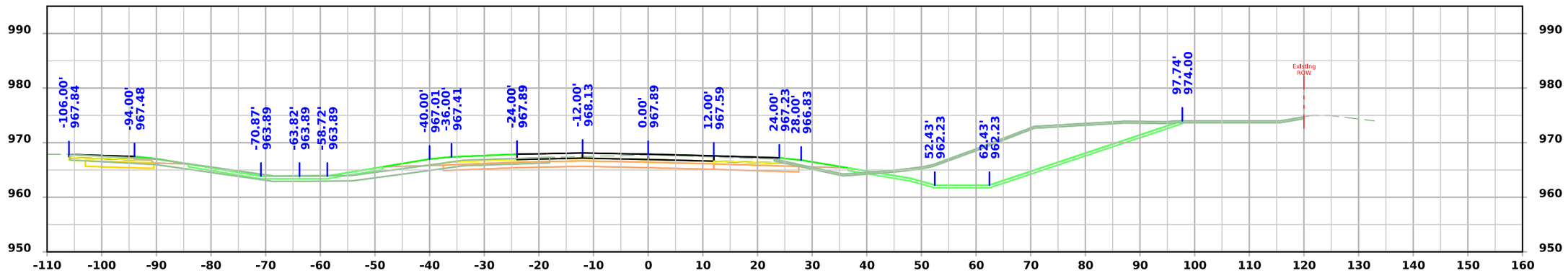
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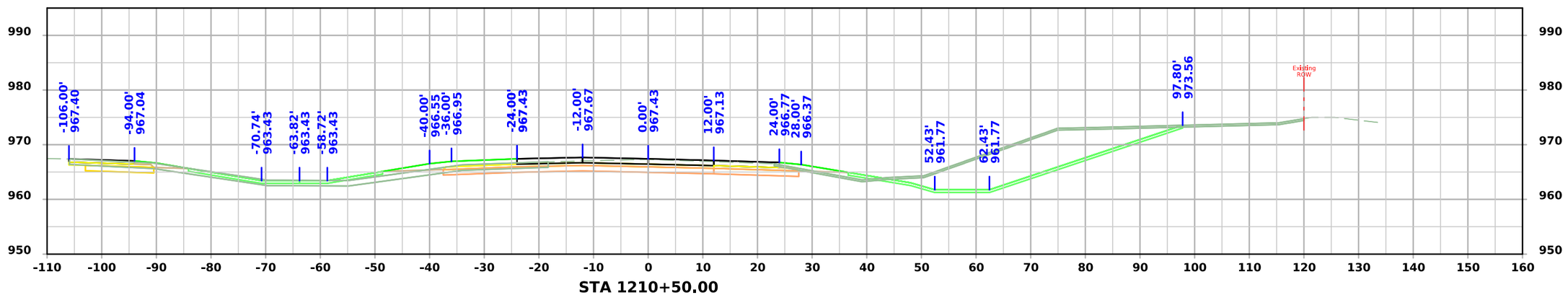
ML - I35 NB



STA 1211+50.00



STA 1211+00.00

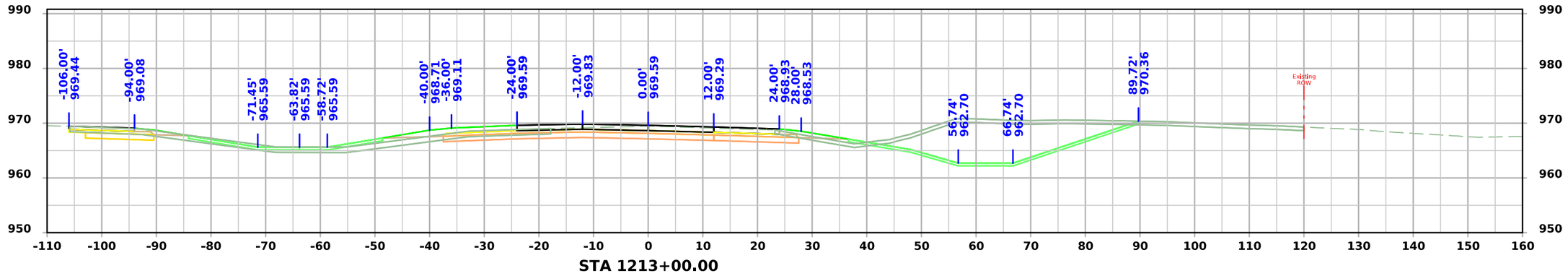


STA 1210+50.00

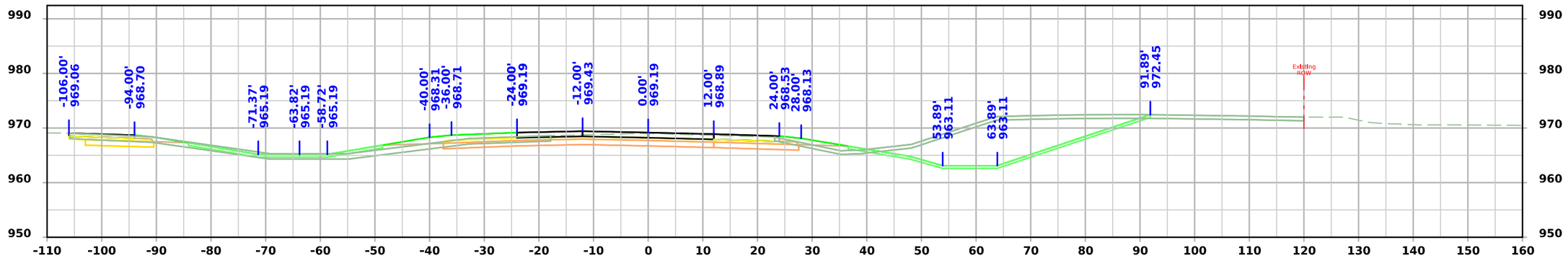
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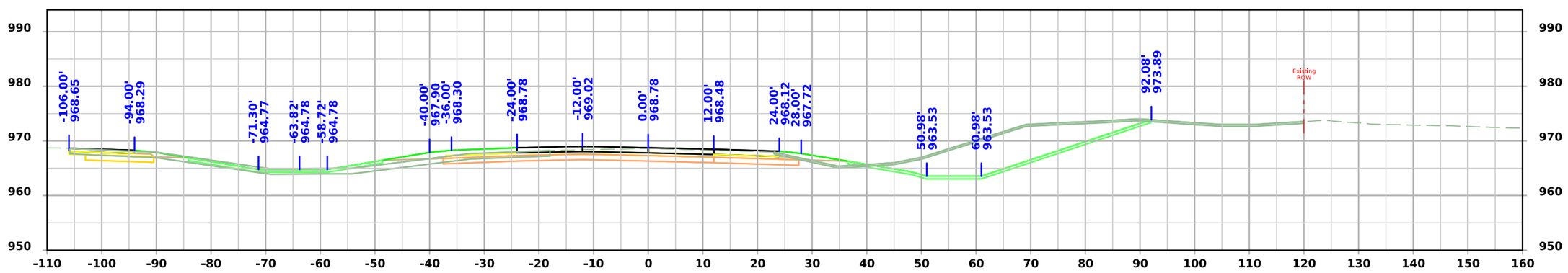
ML - I35 NB



STA 1213+00.00



STA 1212+50.00

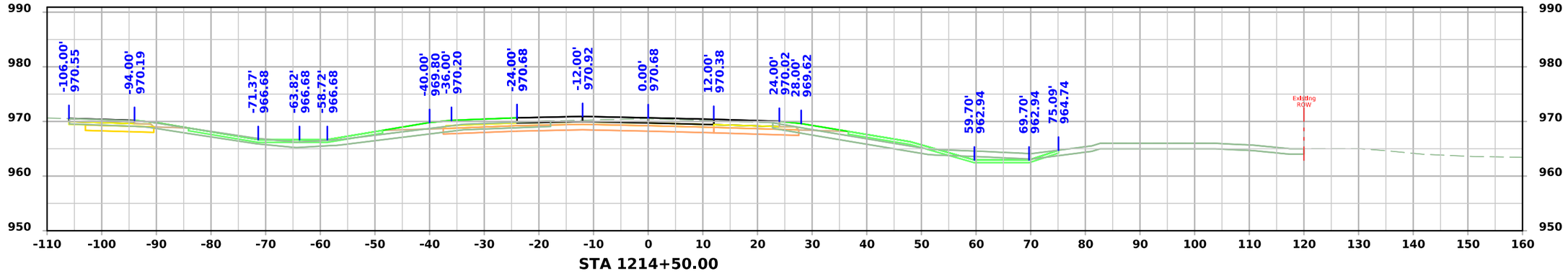


STA 1212+00.00

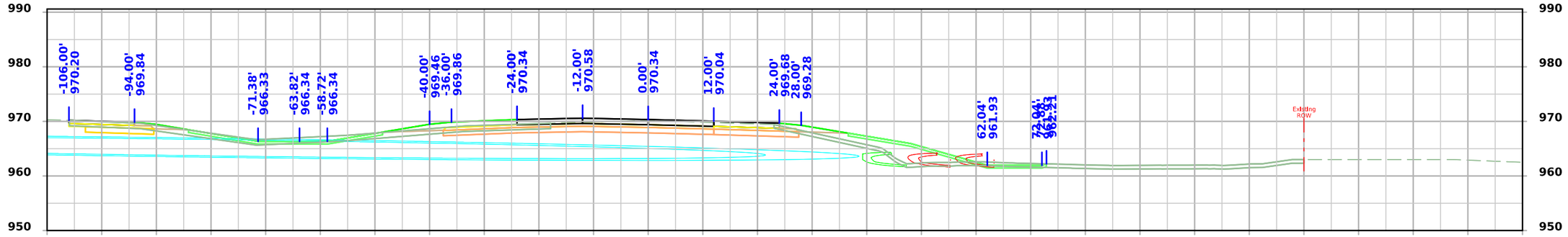
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.101

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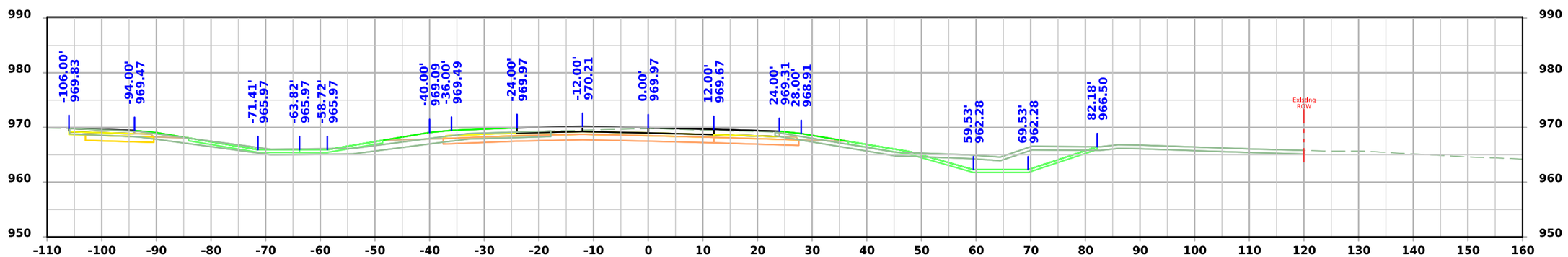
ML - I35 NB



STA 1214+50.00



STA 1214+00.00

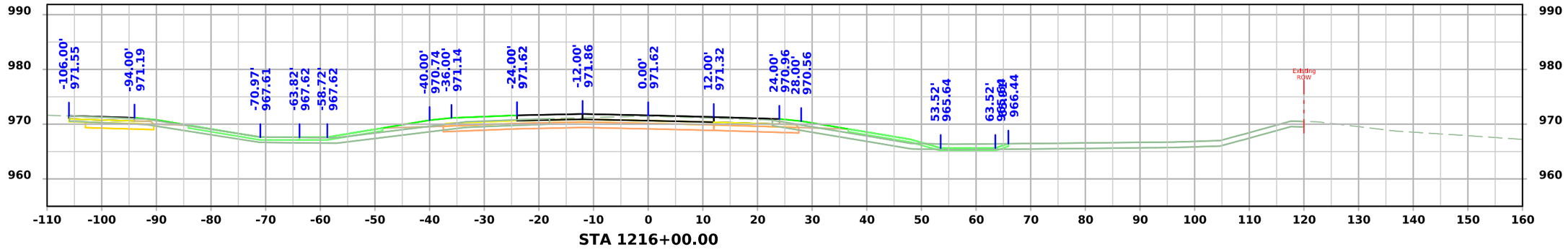


STA 1213+50.00

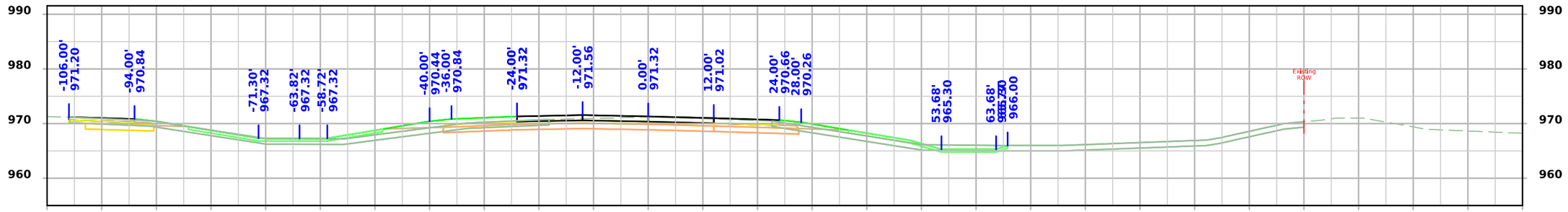
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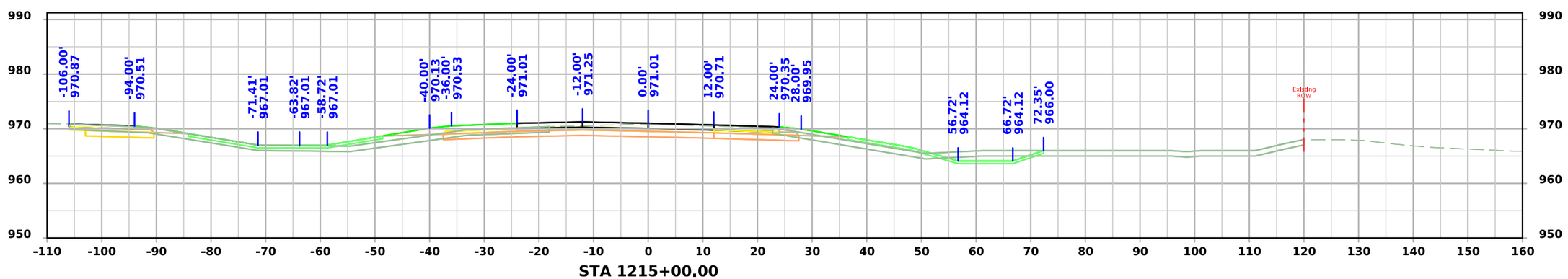
ML - I35 NB



STA 1216+00.00



STA 1215+50.00

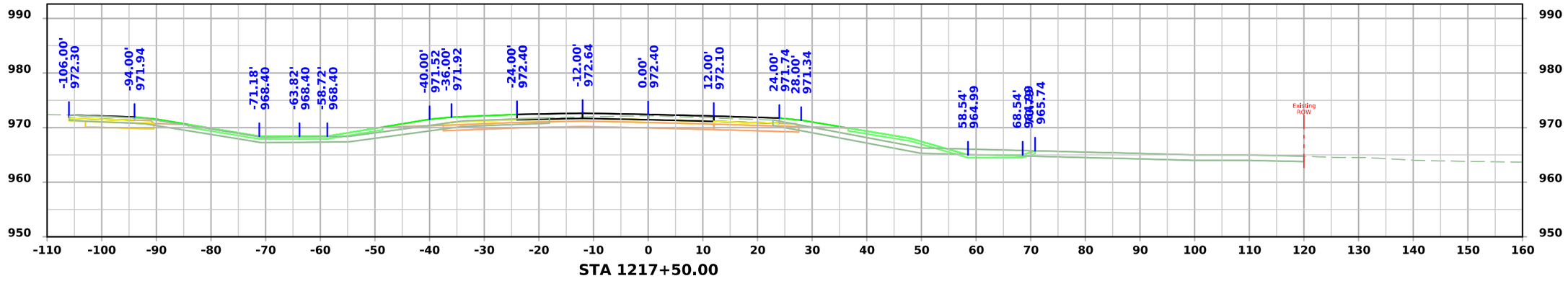


STA 1215+00.00

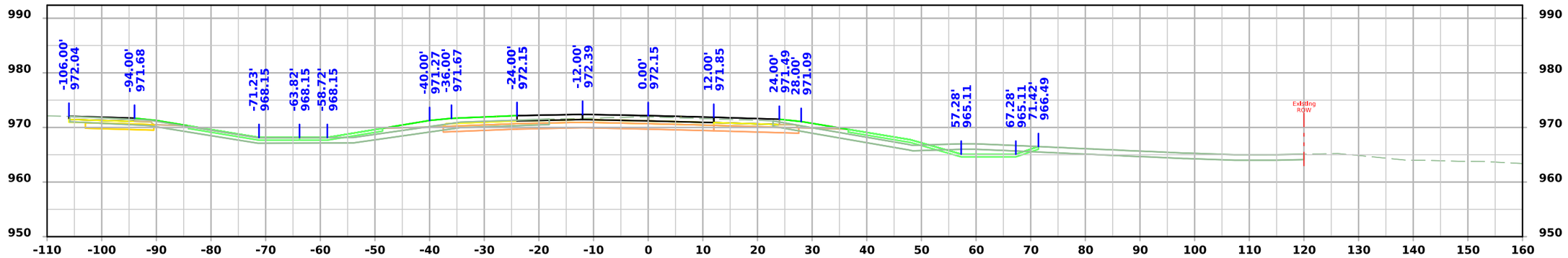
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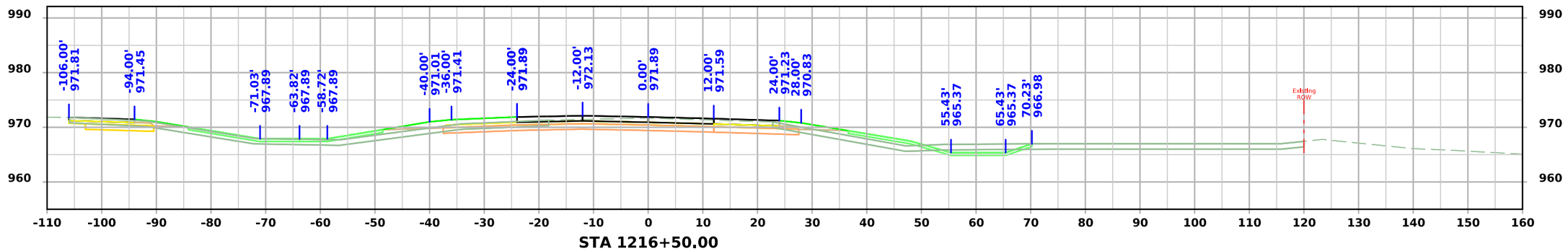
ML - I35 NB



STA 1217+50.00



STA 1217+00.00

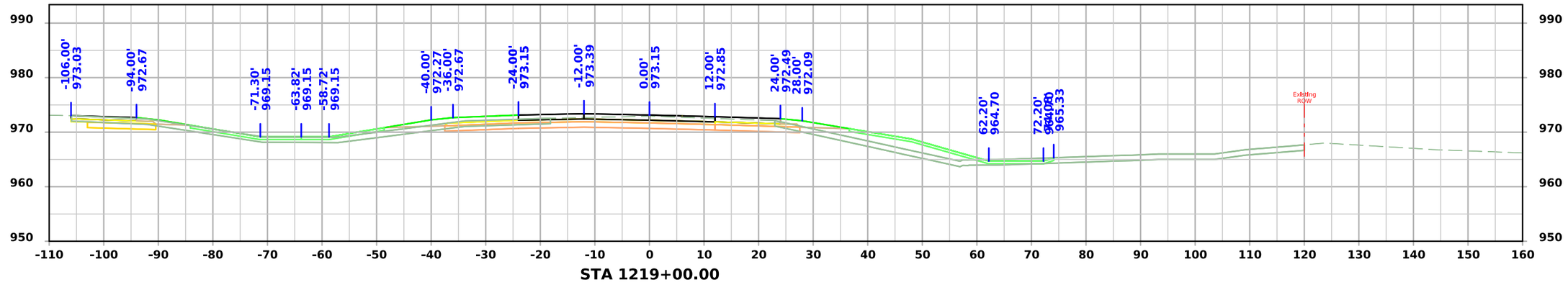


STA 1216+50.00

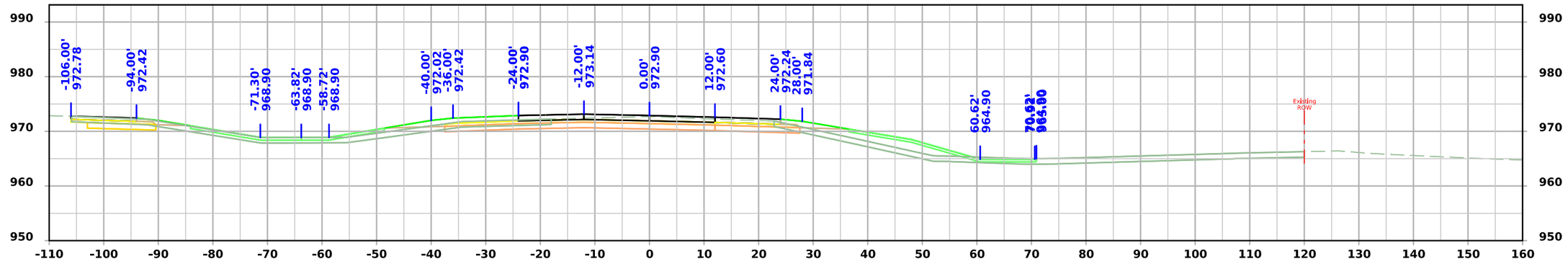
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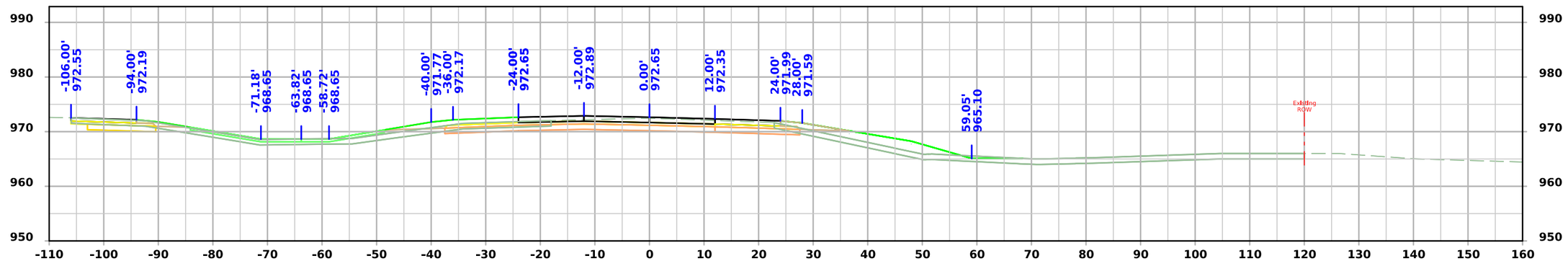
ML - I35 NB



STA 1219+00.00



STA 1218+50.00

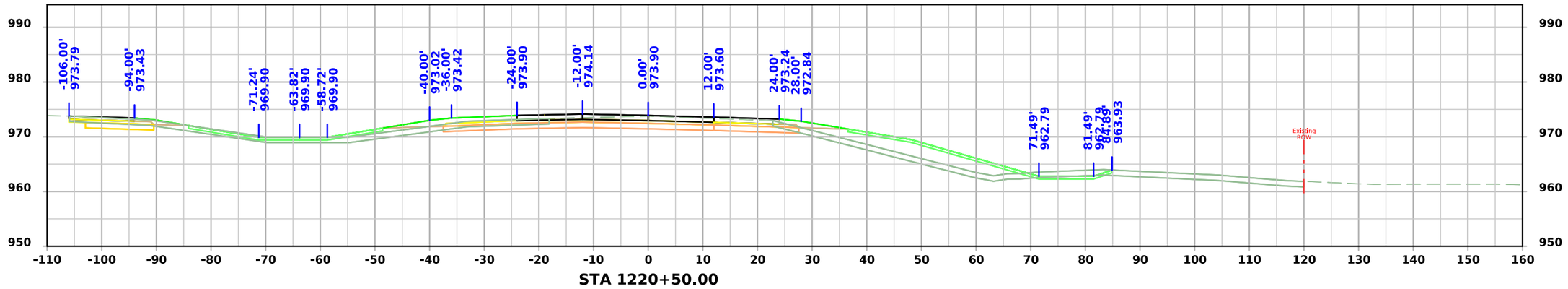


STA 1218+00.00

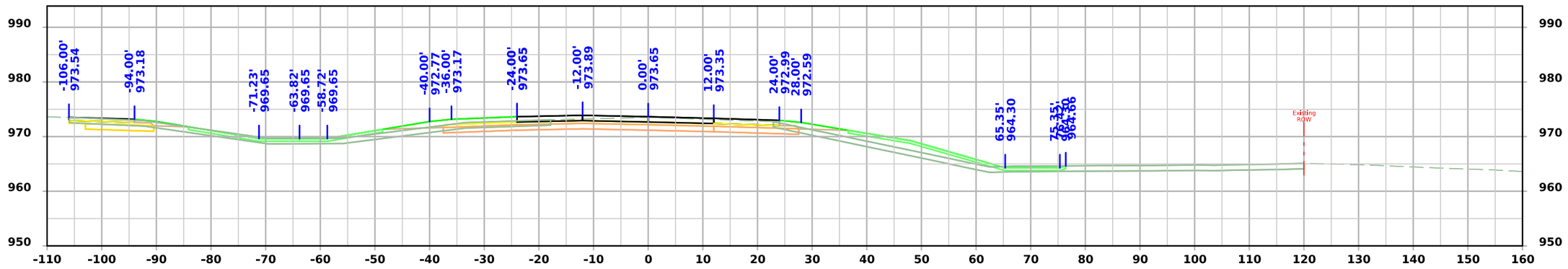
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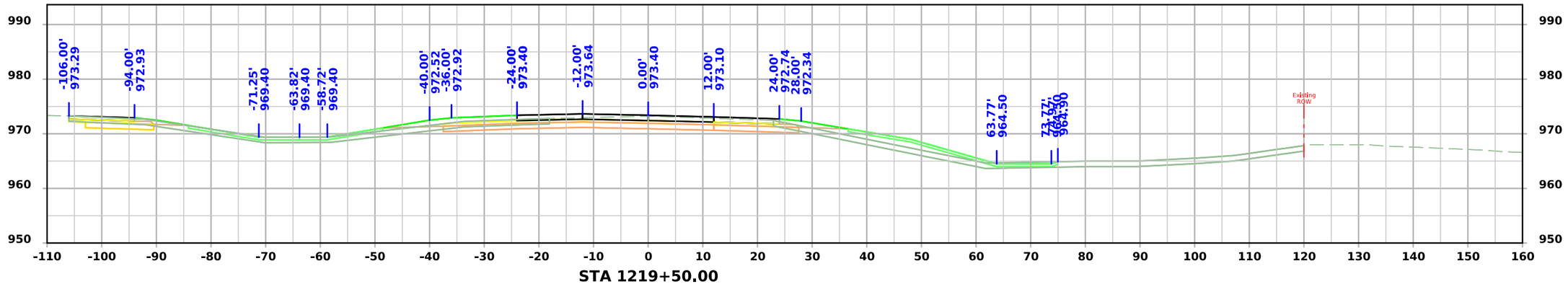
ML - I35 NB



STA 1220+50.00



STA 1220+00.00

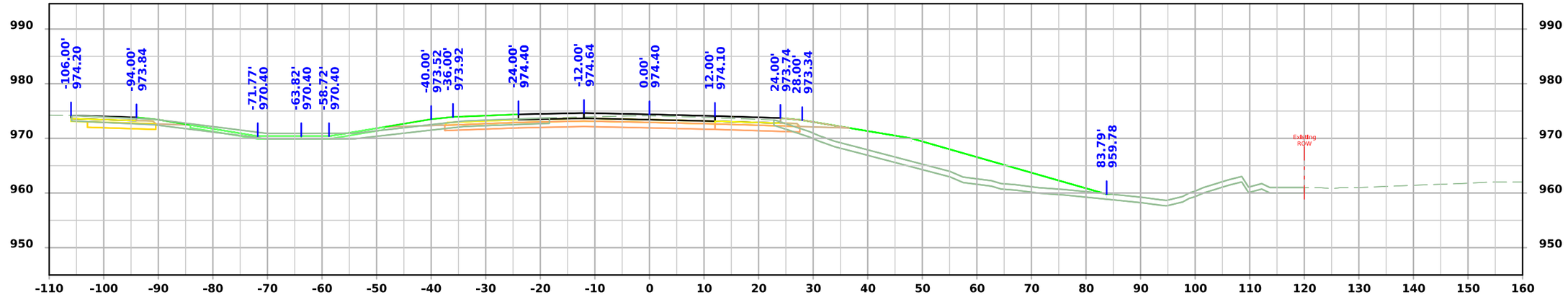


STA 1219+50.00

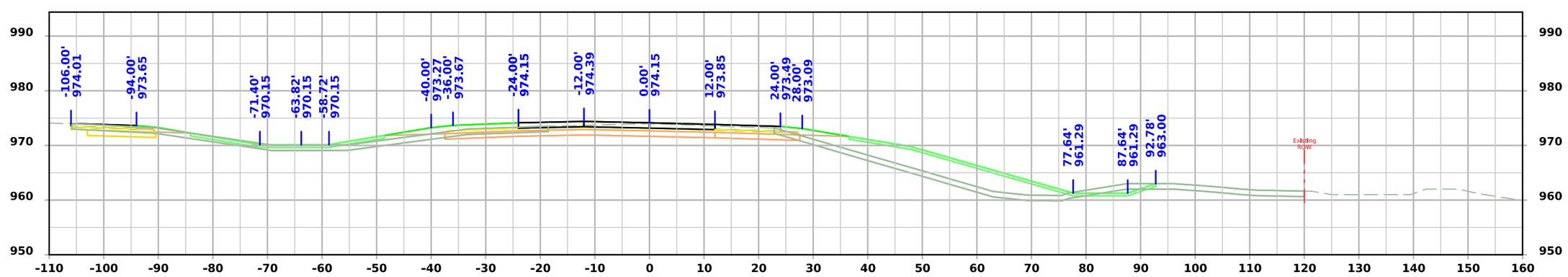
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ML - I35 NB



STA 1221+50.00

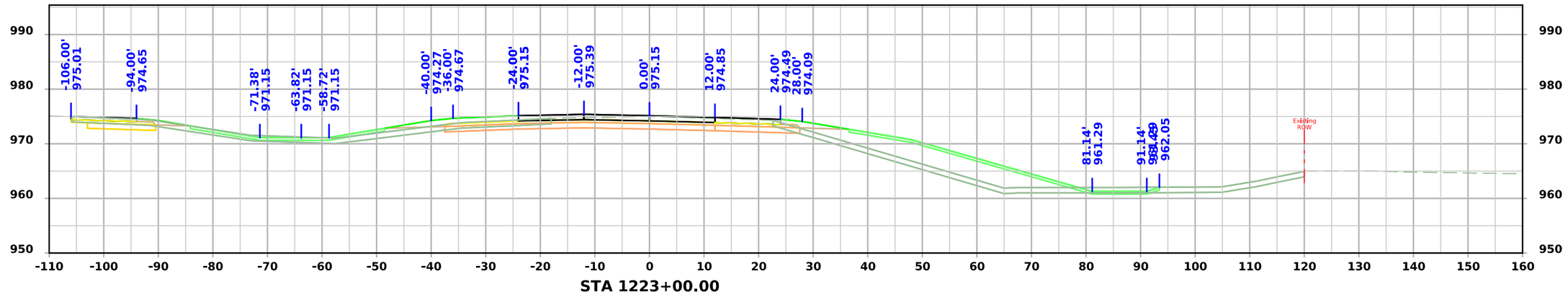


STA 1221+00.00

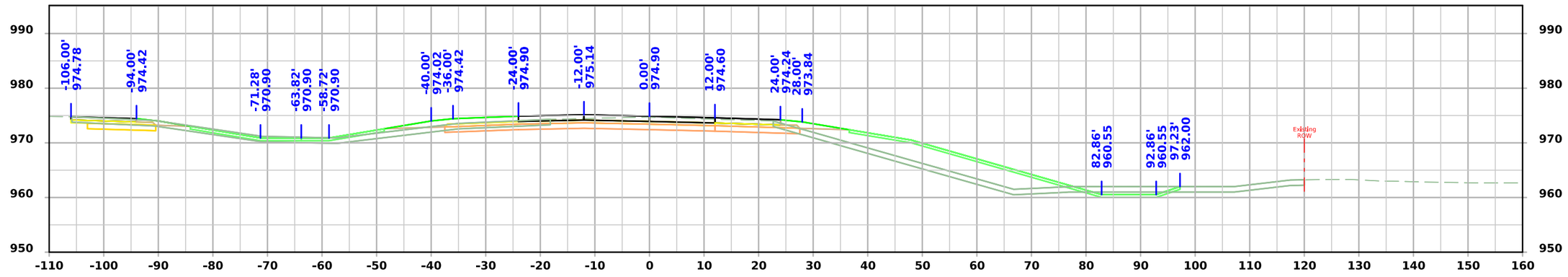
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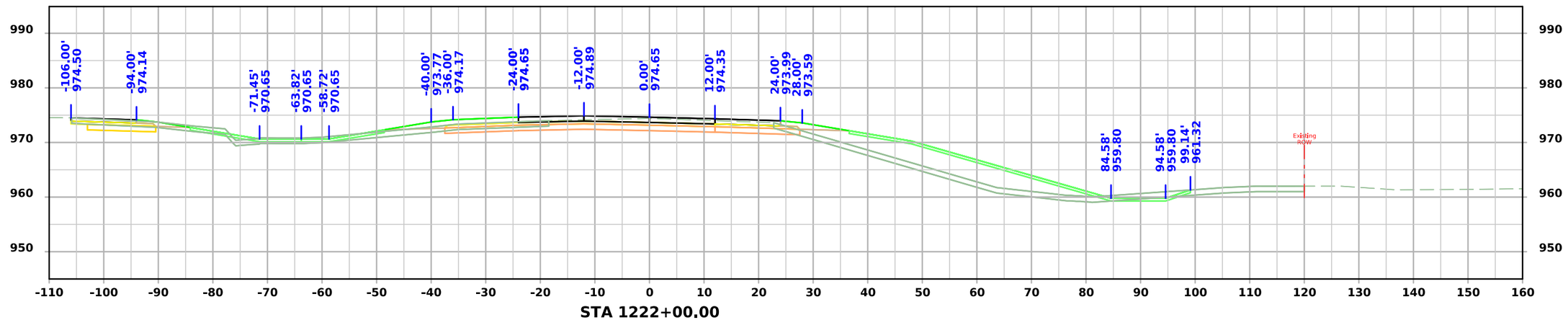
ML - I35 NB



STA 1223+00.00



STA 1222+50.00

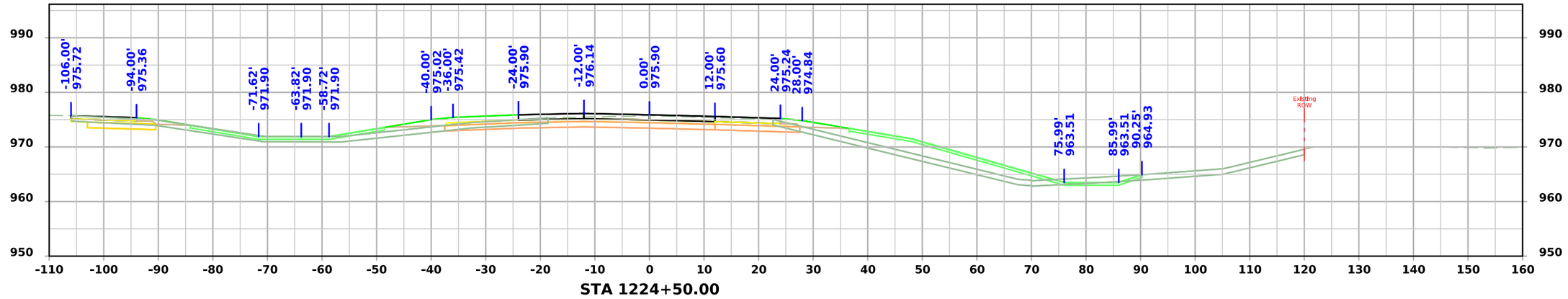


STA 1222+00.00

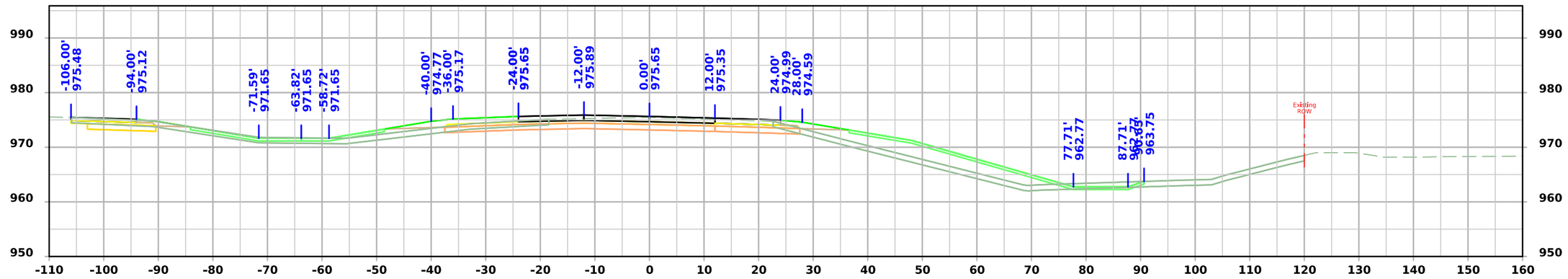
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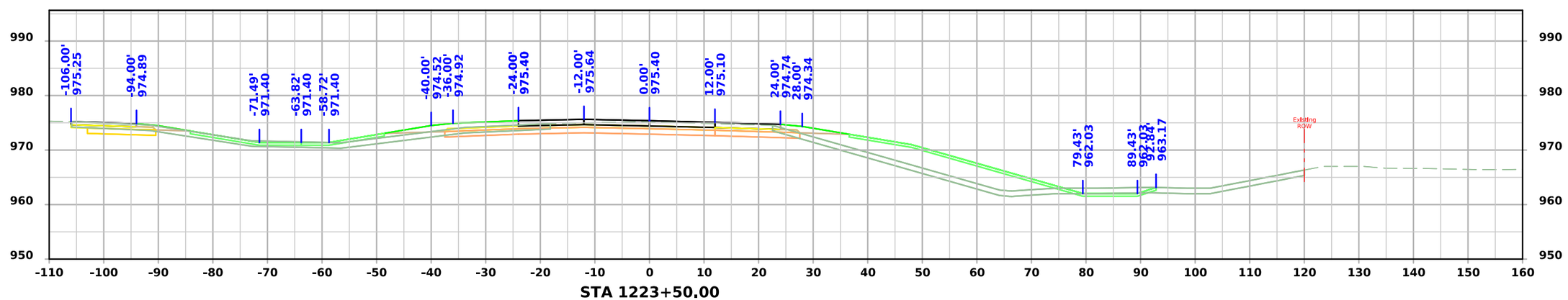
ML - I35 NB



STA 1224+50.00



STA 1224+00.00

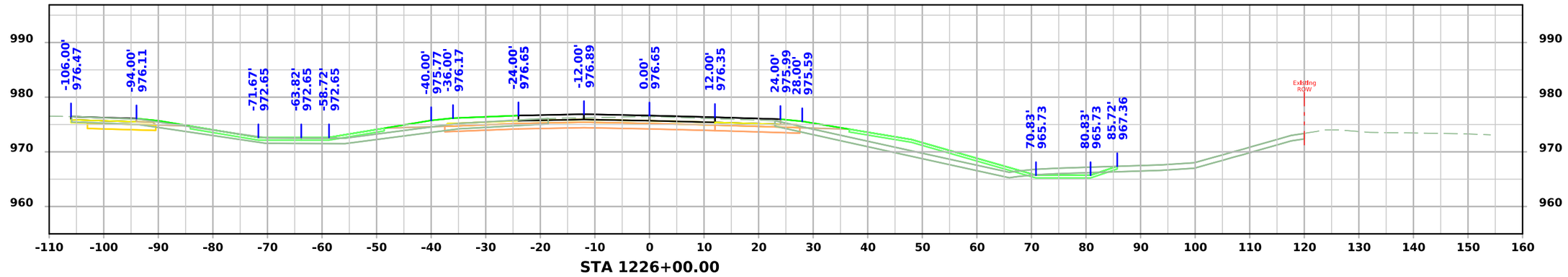


STA 1223+50.00

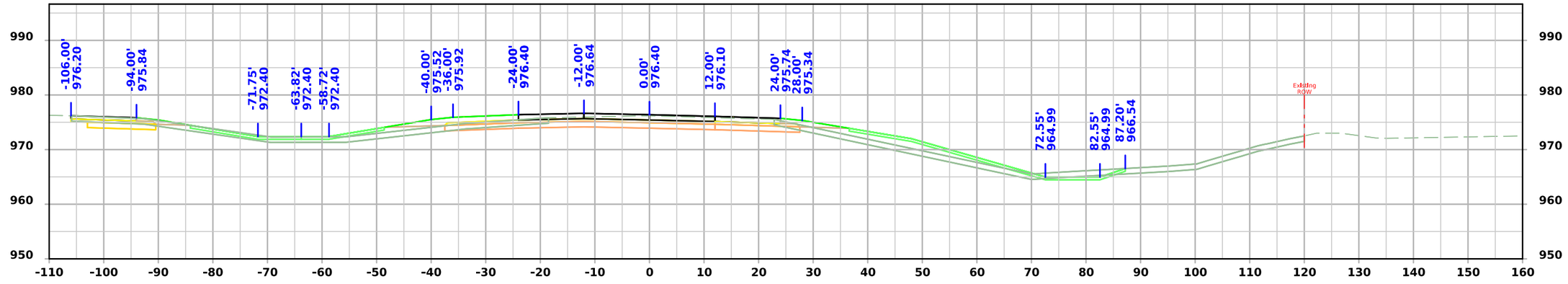
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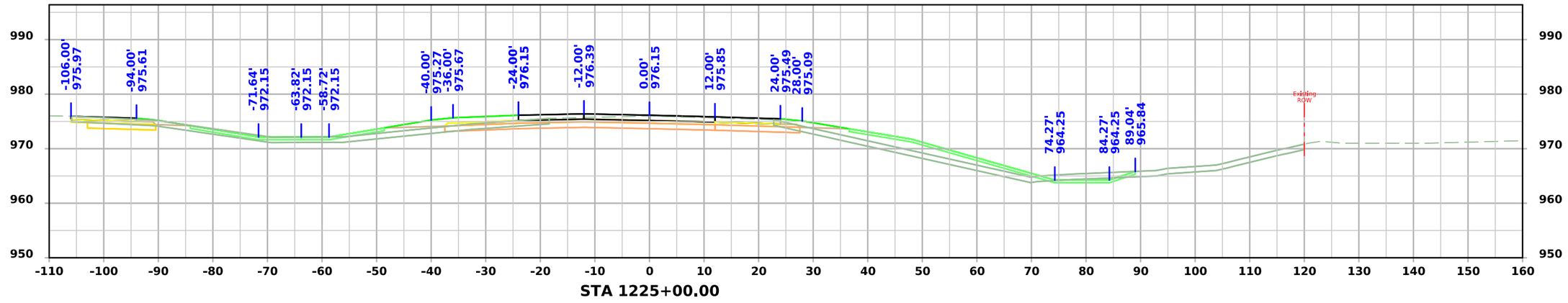
ML - I35 NB



STA 1226+00.00



STA 1225+50.00

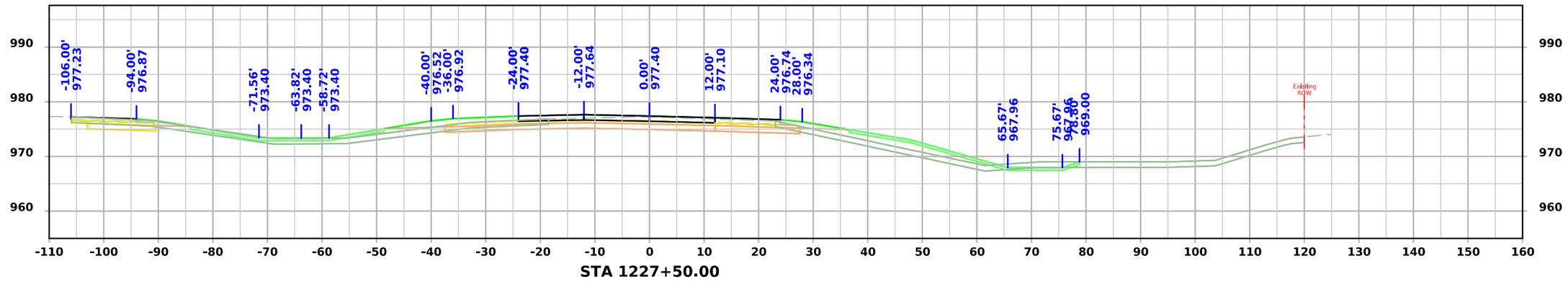


STA 1225+00.00

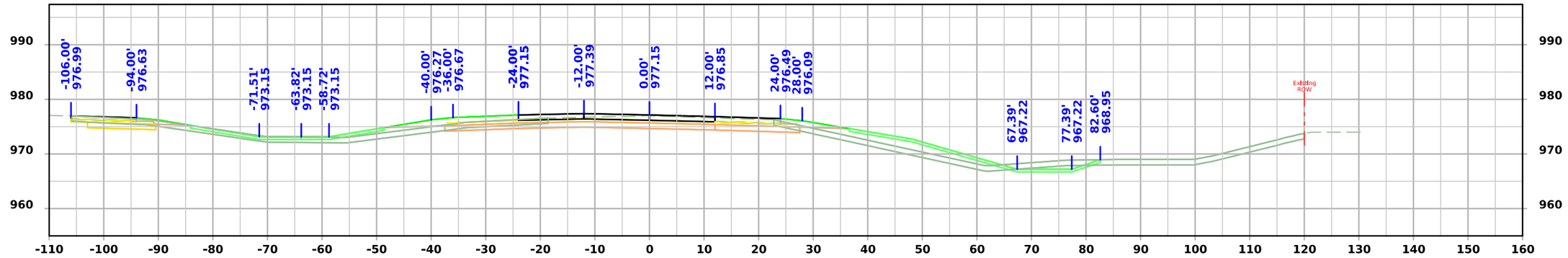
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.110

10:03:45 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

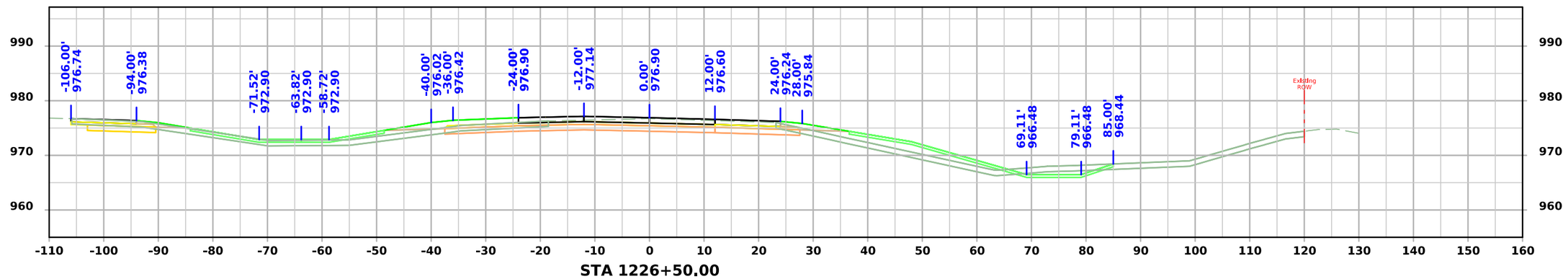
ML - I35 NB



STA 1227+50.00



STA 1227+00.00

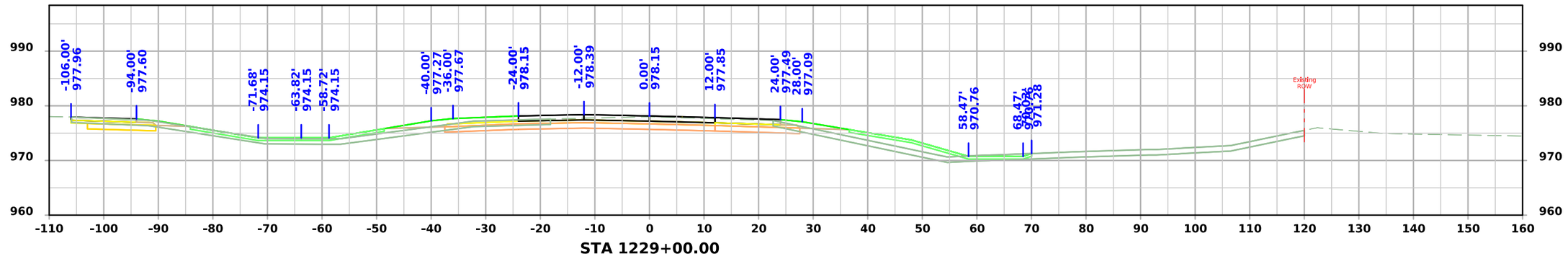


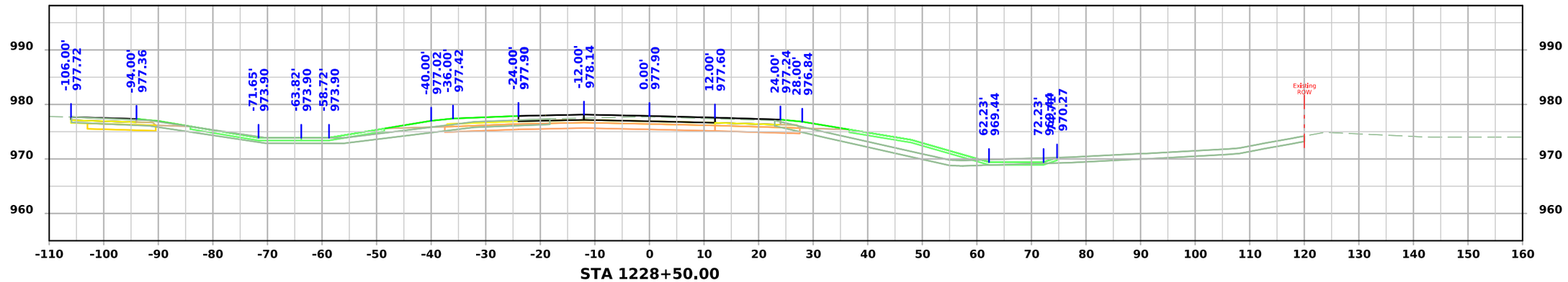
STA 1226+50.00

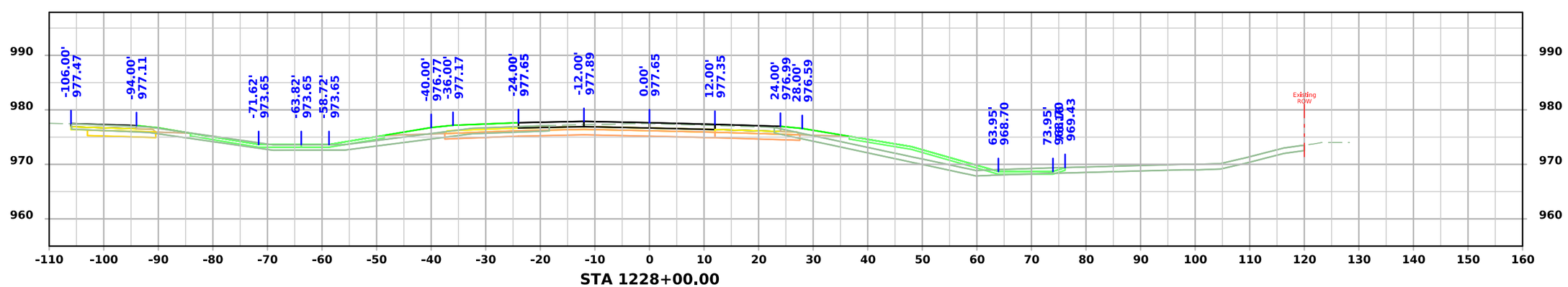
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.111

10:03:47 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



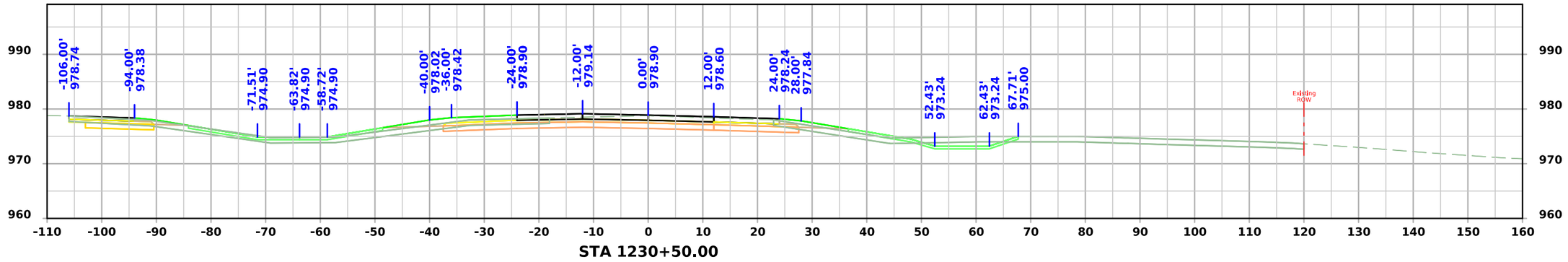




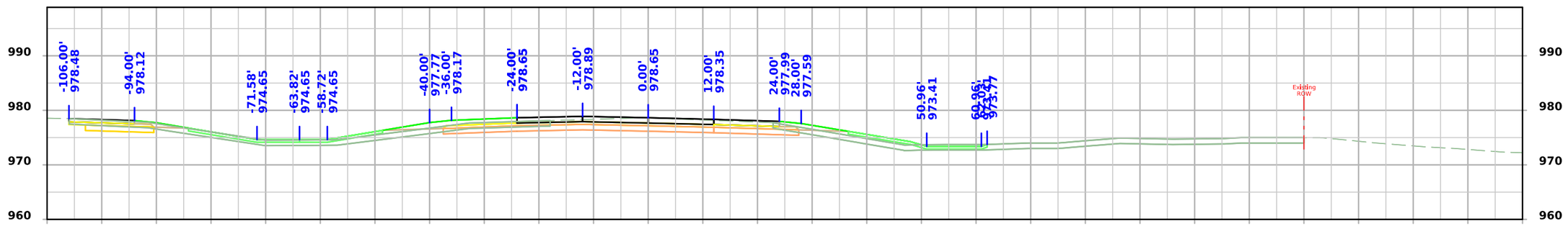
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.112

10:03:49 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

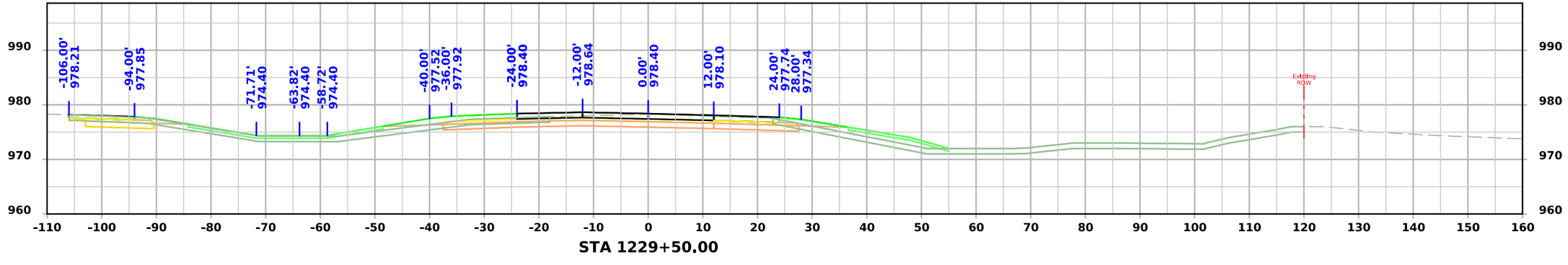
ML - I35 NB



STA 1230+50.00



STA 1230+00.00

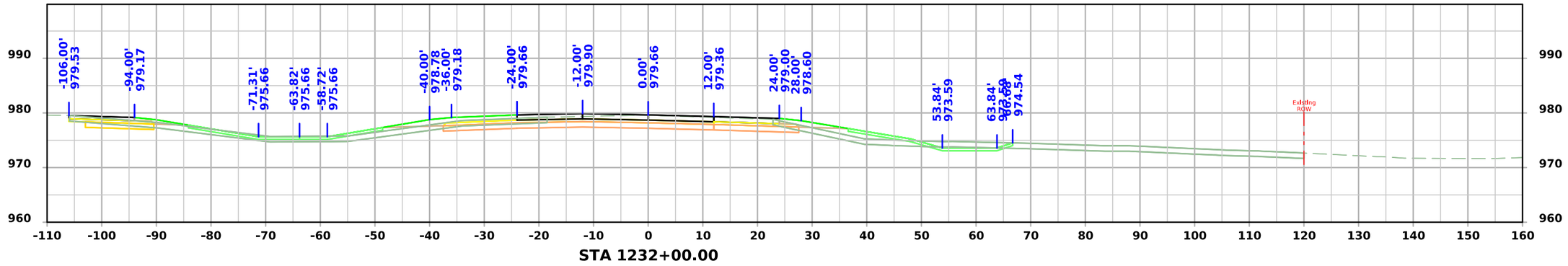


STA 1229+50.00

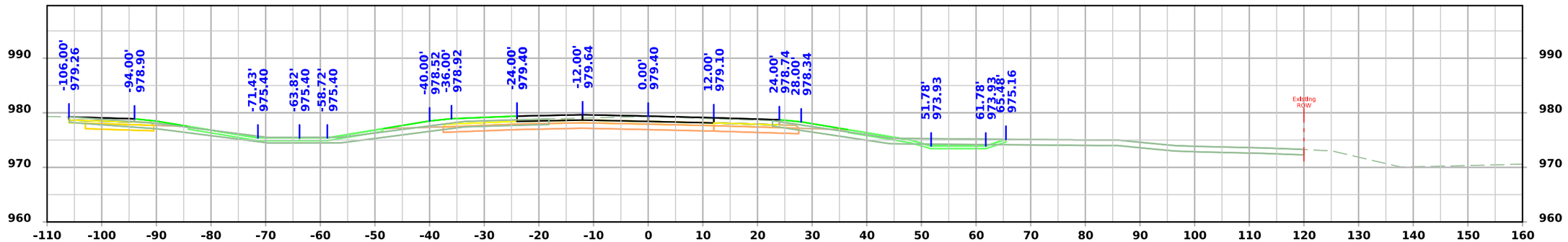
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.113

10:03:51 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

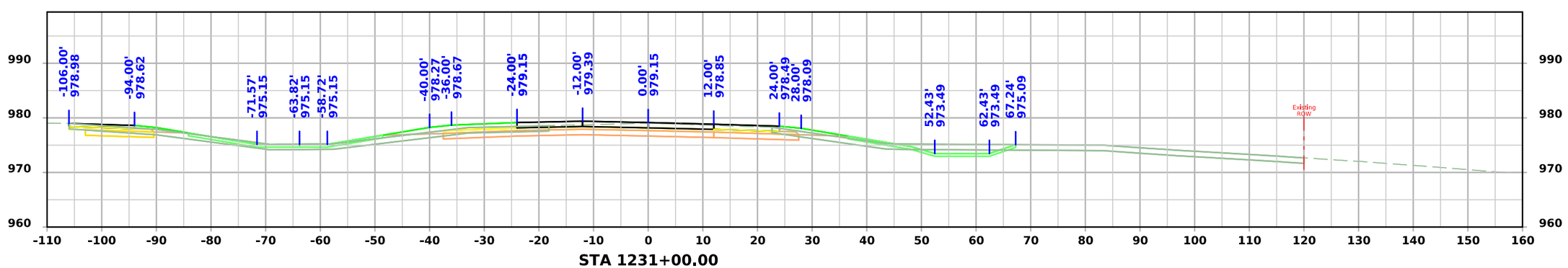
ML - I35 NB



STA 1232+00.00



STA 1231+50.00

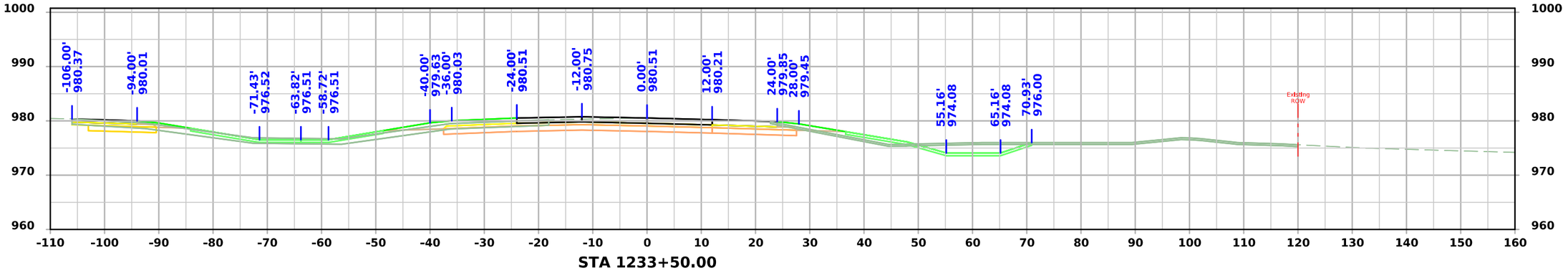


STA 1231+00.00

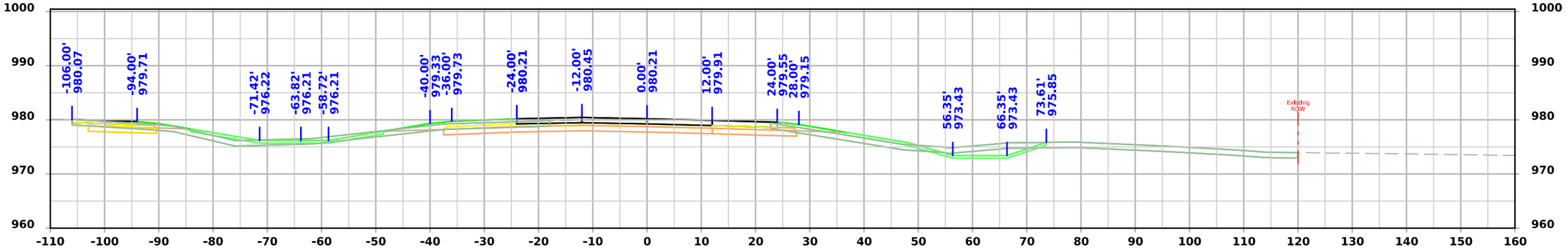
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.114

10:03:54 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

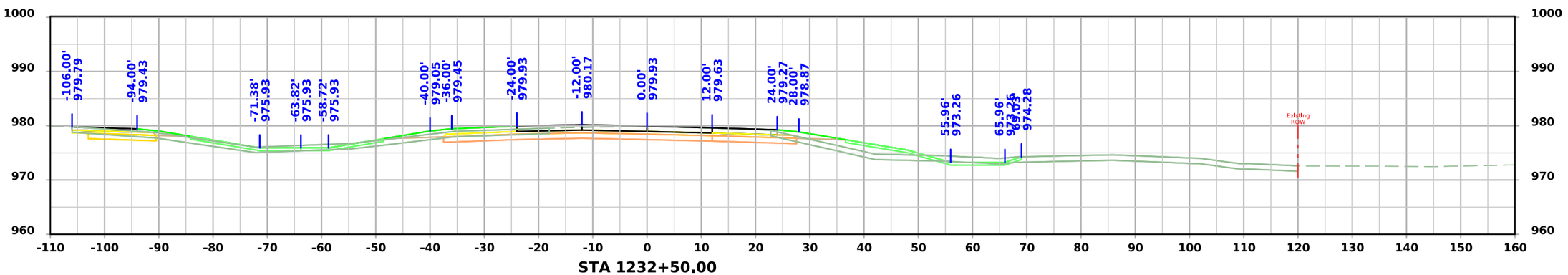
ML - I35 NB



STA 1233+50.00



STA 1233+00.00

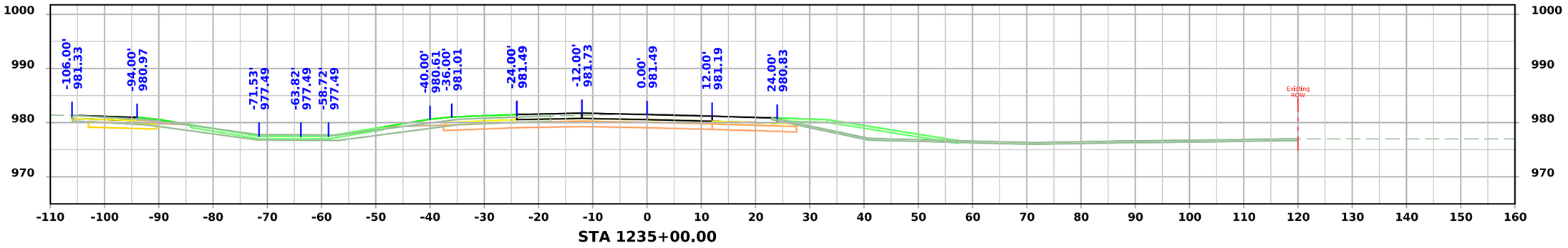


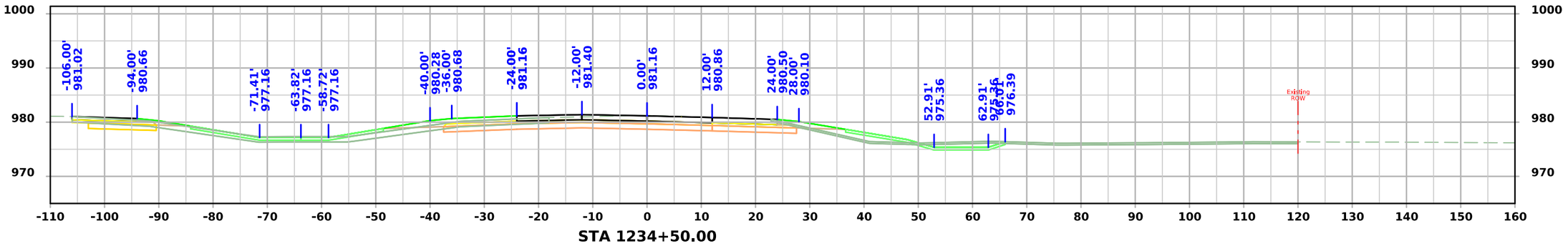
STA 1232+50.00

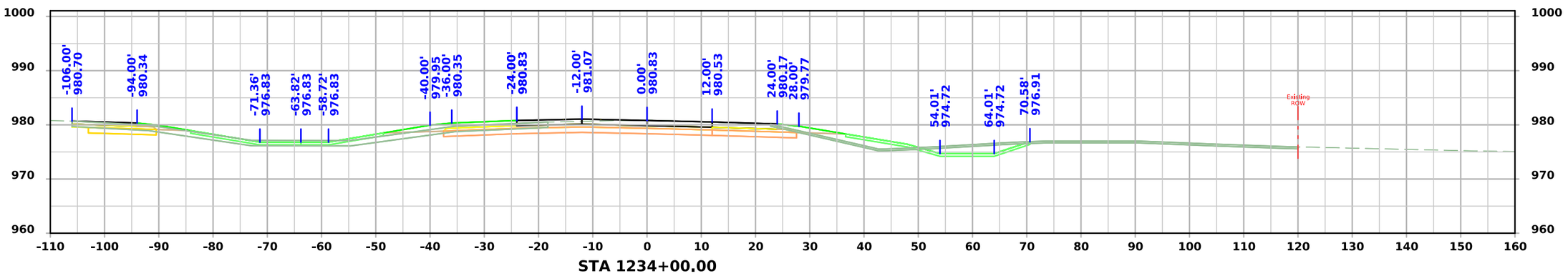
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.115

10:03:56 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



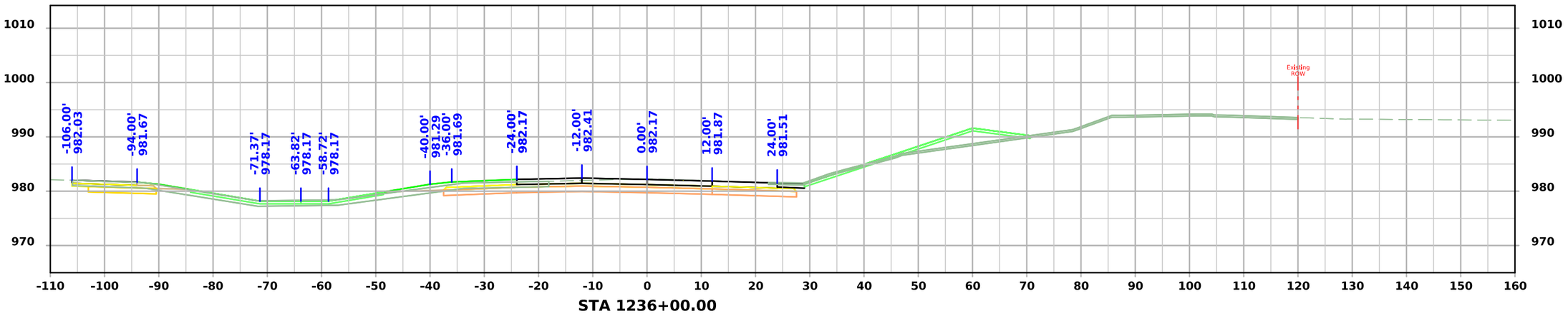




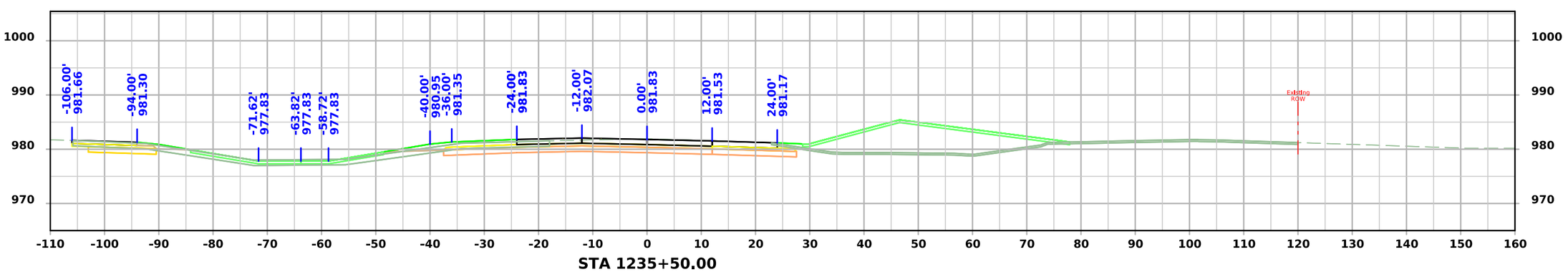
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.116

10:03:59 AM 7/8/2026 mkjartanson 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 1236+00.00

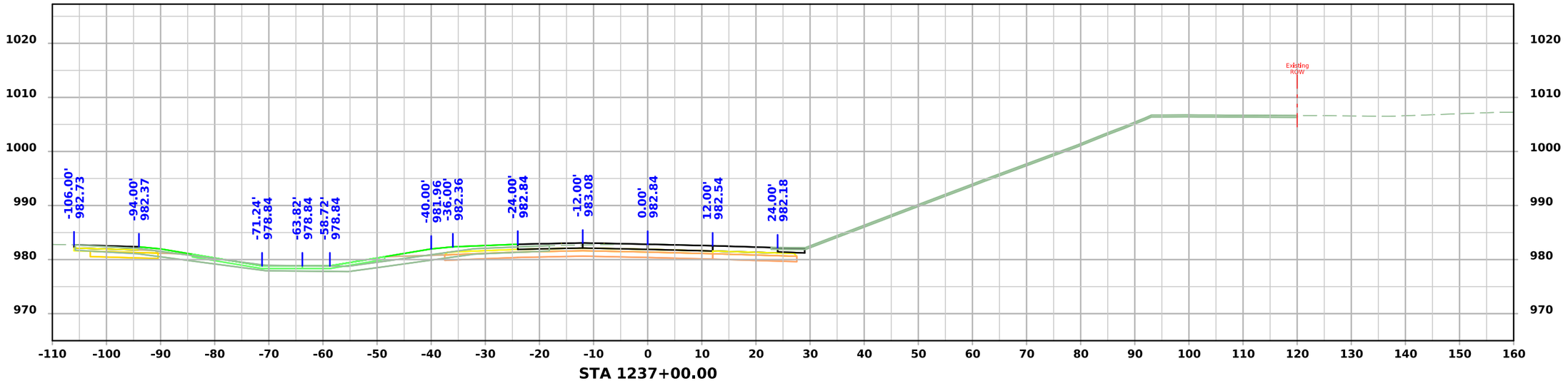


STA 1235+50.00

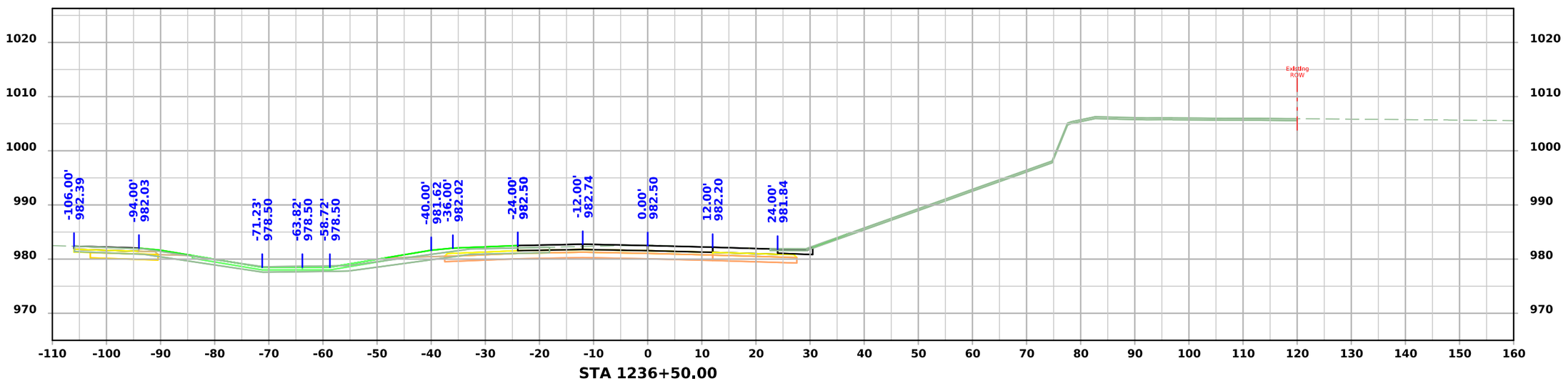
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.117

10:04:01 AM 7/8/2026 mkjartanson 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+00.00

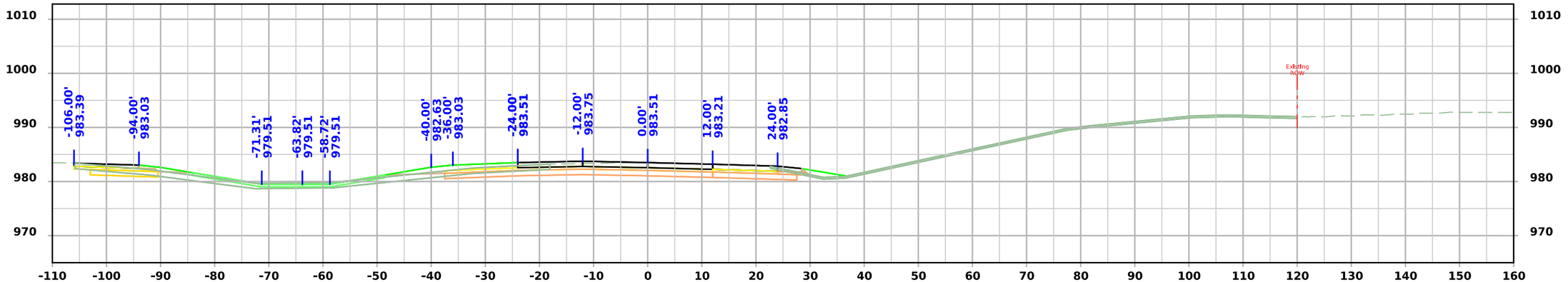


STA 1236+50.00

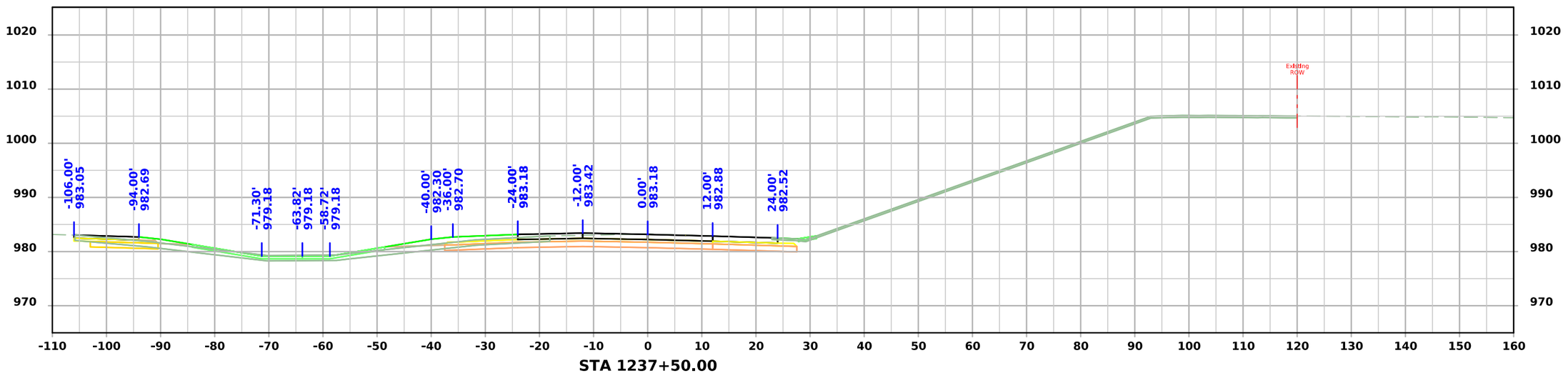
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.118

10:04:03 AM 7/8/2026 mkjartanson 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 1238+00.00

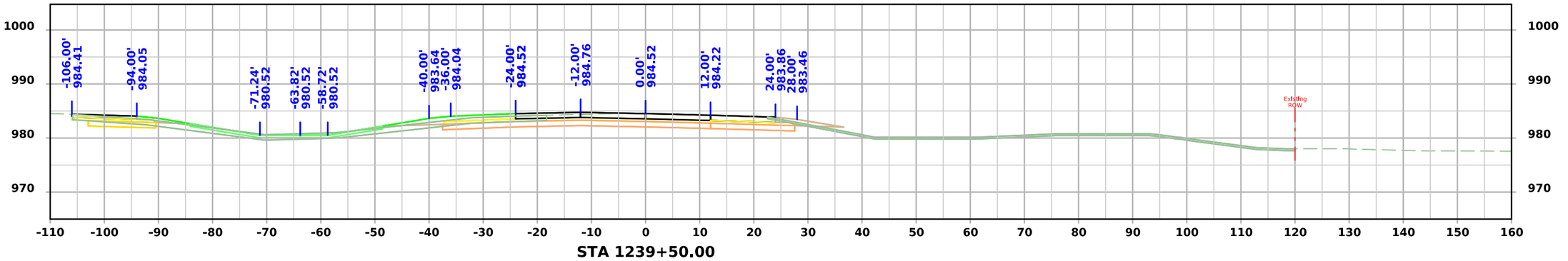


STA 1237+50.00

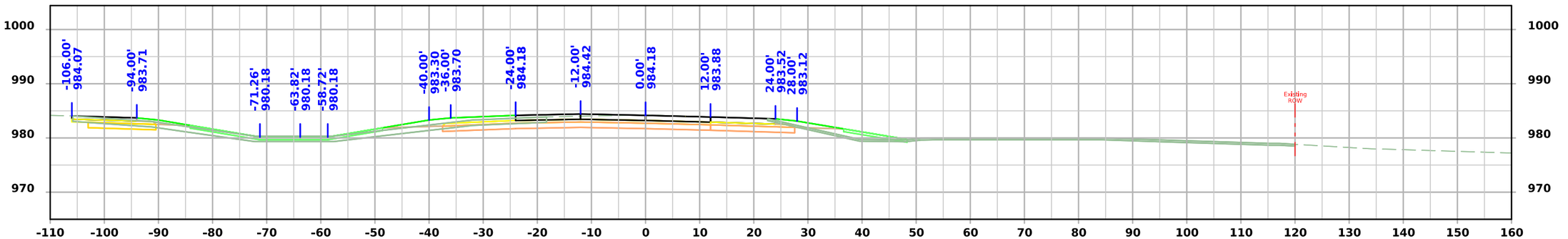
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.119

10:04:05 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

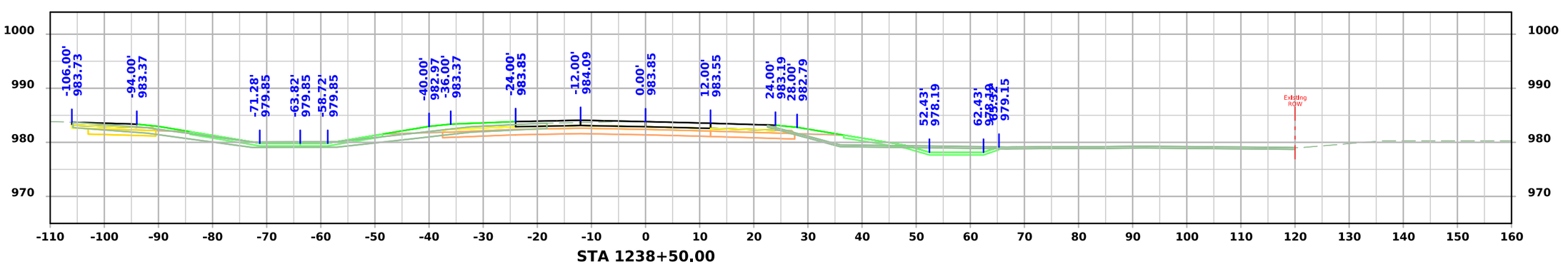
ML - I35 NB



STA 1239+50.00



STA 1239+00.00

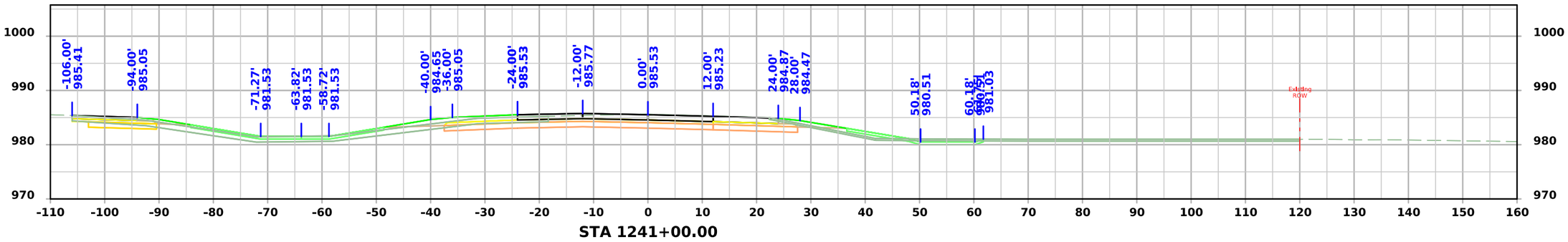


STA 1238+50.00

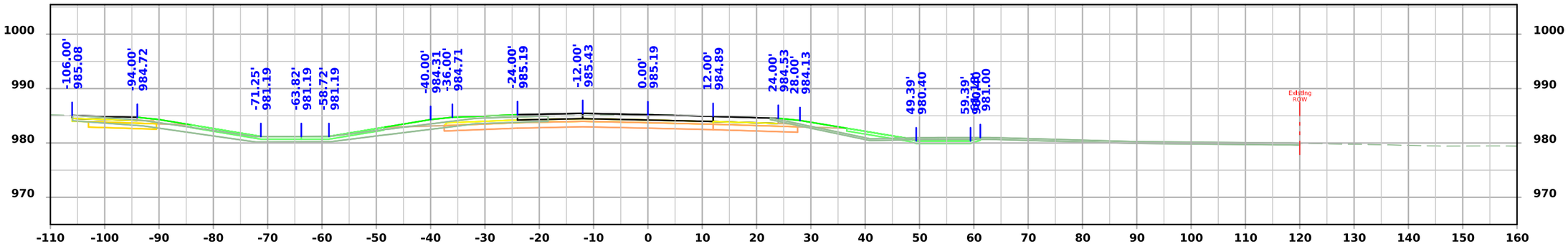
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.120

10:04:07 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

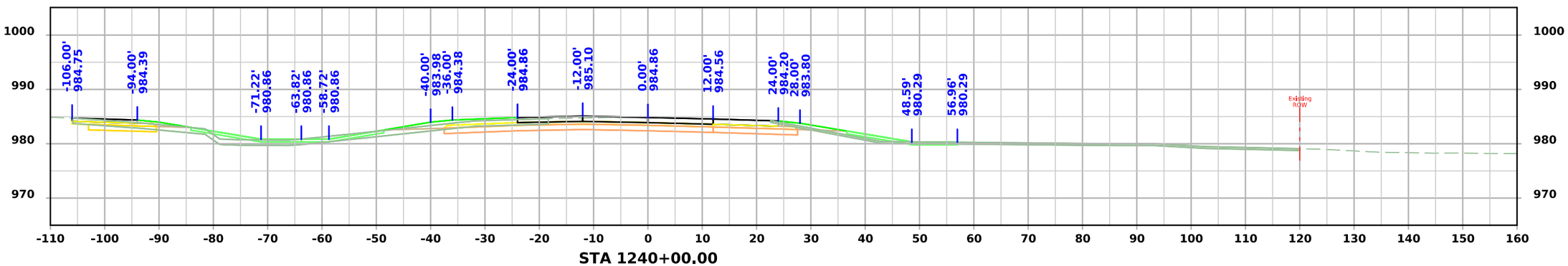
ML - I35 NB



STA 1241+00.00



STA 1240+50.00

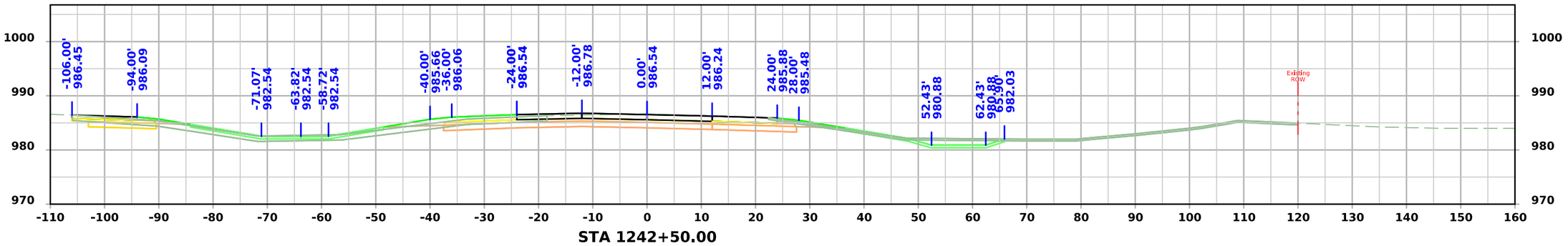


STA 1240+00.00

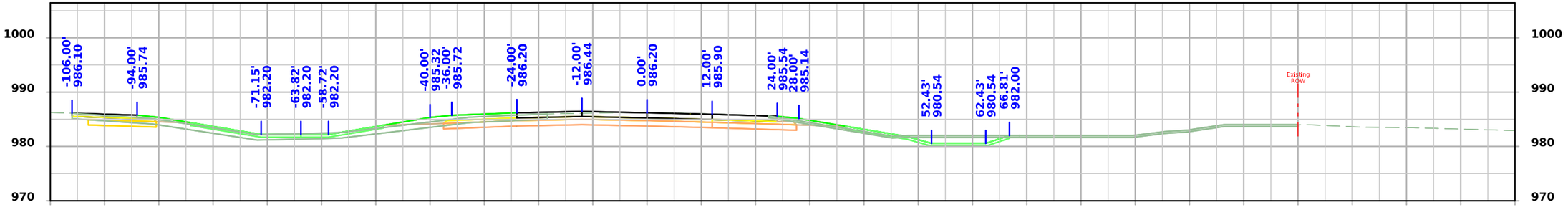
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.121

10:04:09 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

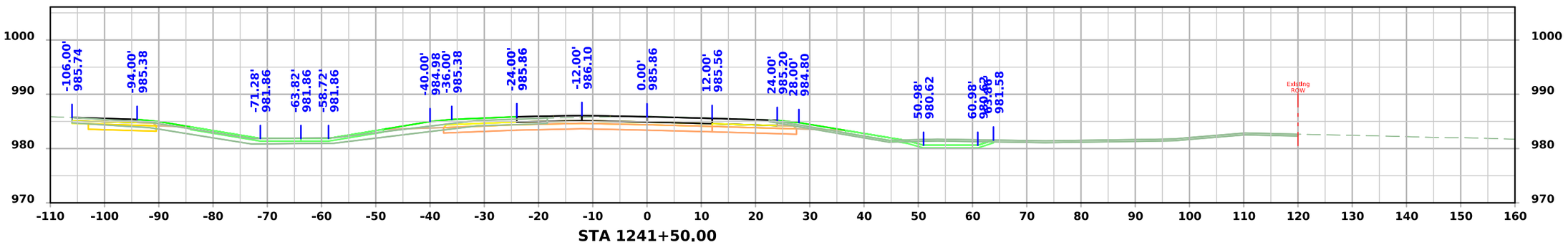
ML - I35 NB



STA 1242+50.00



STA 1242+00.00

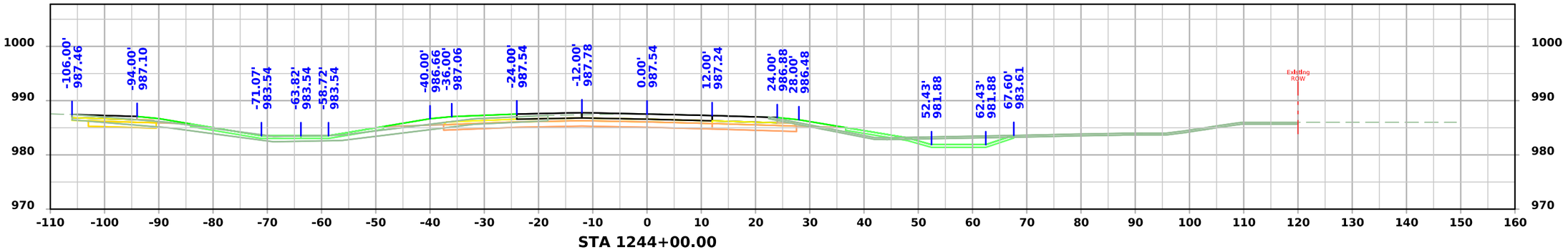


STA 1241+50.00

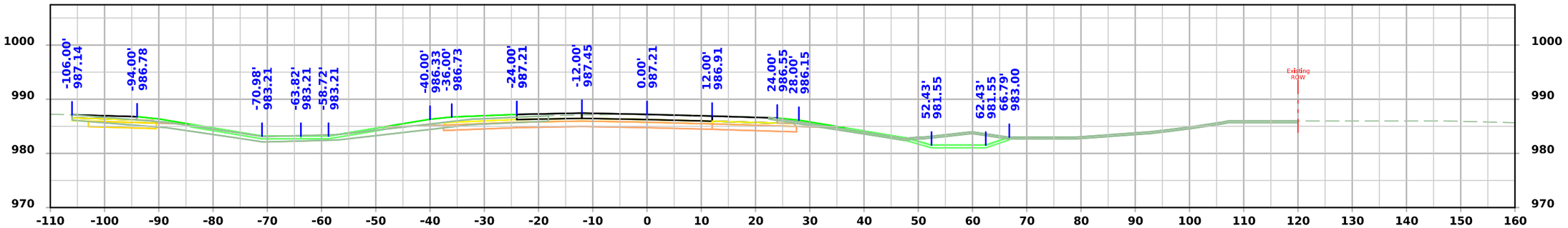
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.122

10:04:12 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

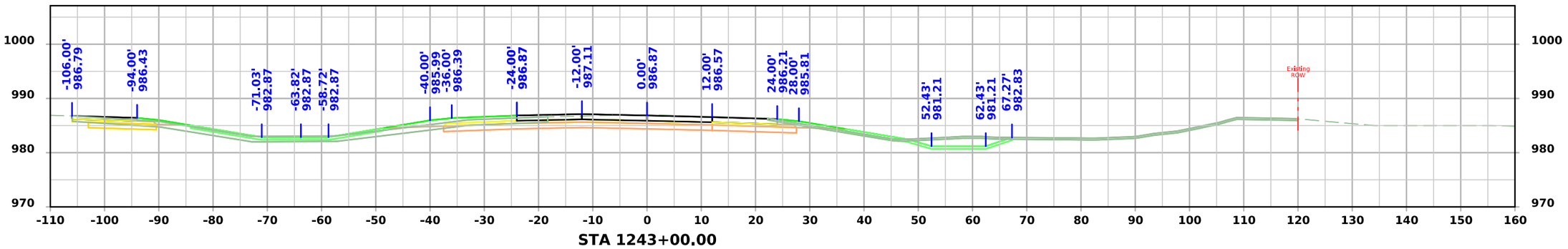
ML - I35 NB



STA 1244+00.00



STA 1243+50.00

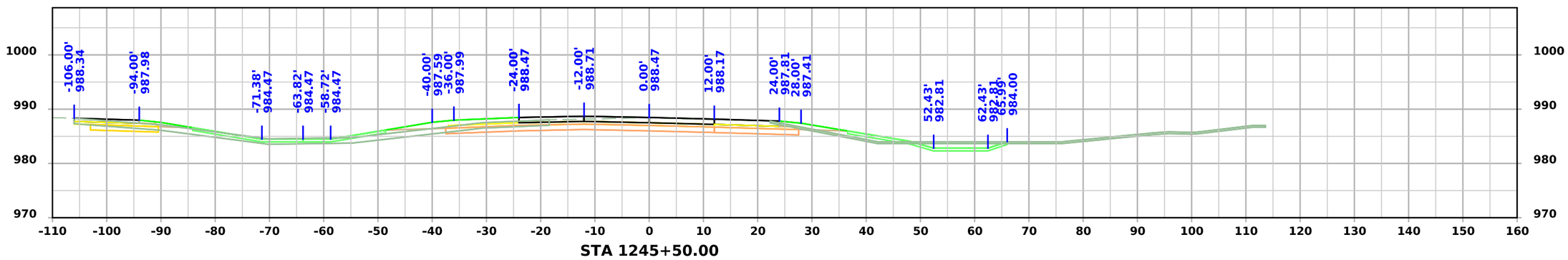


STA 1243+00.00

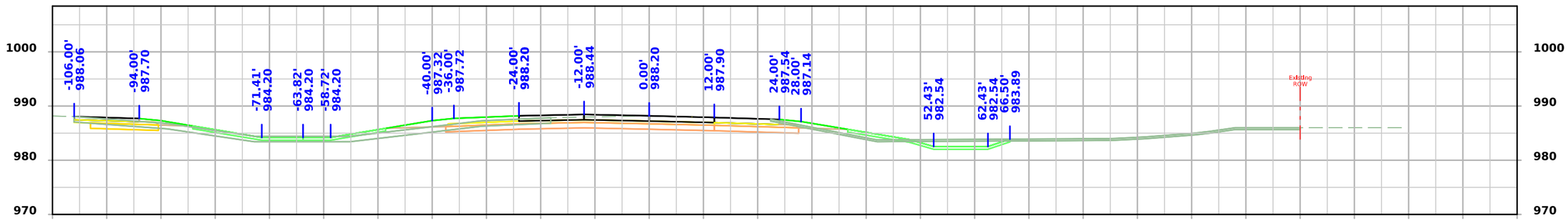
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.123

10:04:14 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

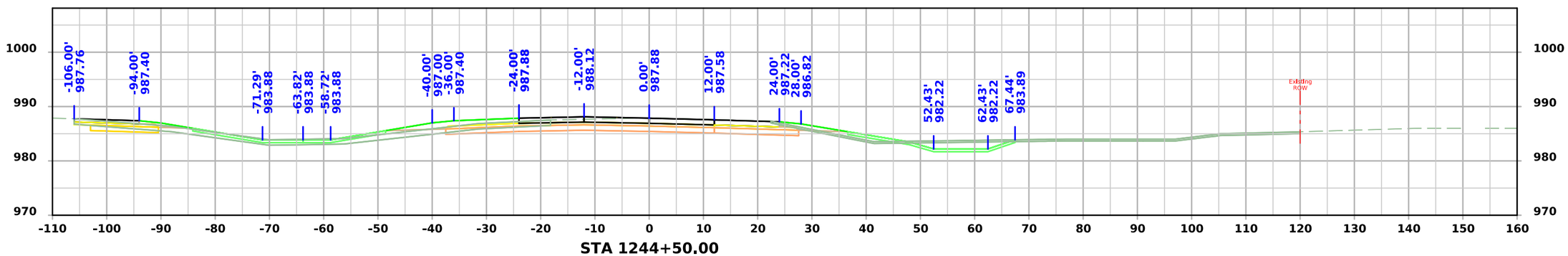
ML - I35 NB



STA 1245+50.00



STA 1245+00.00

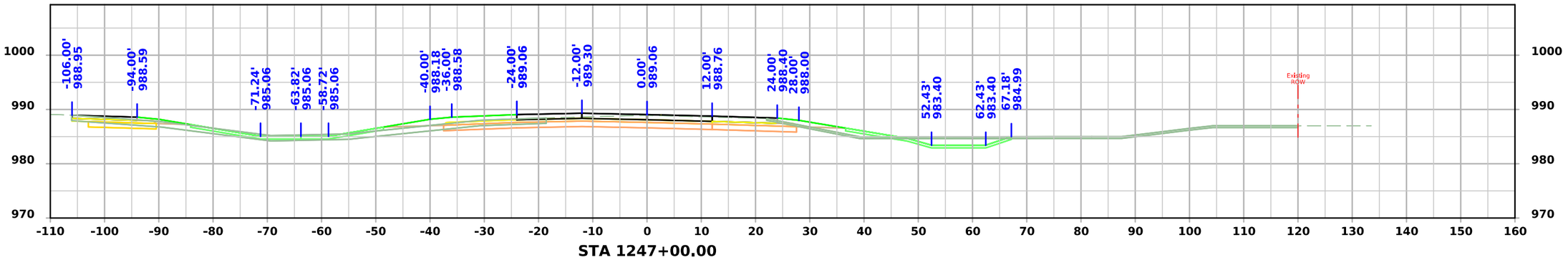


STA 1244+50.00

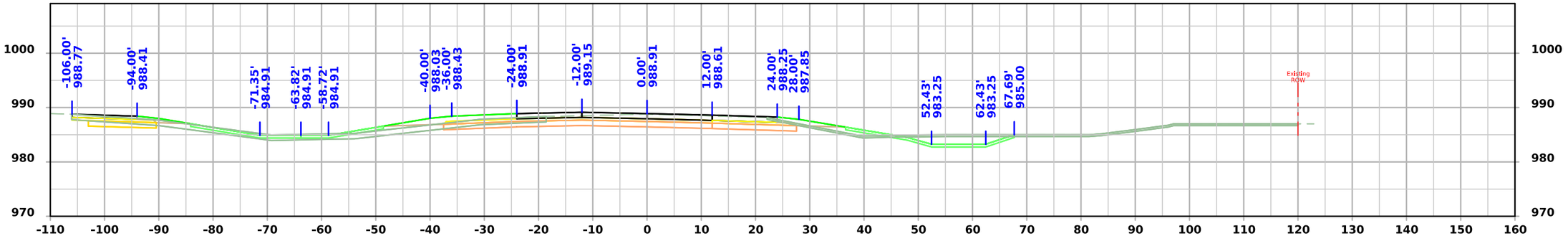
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.124

10:04:16 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

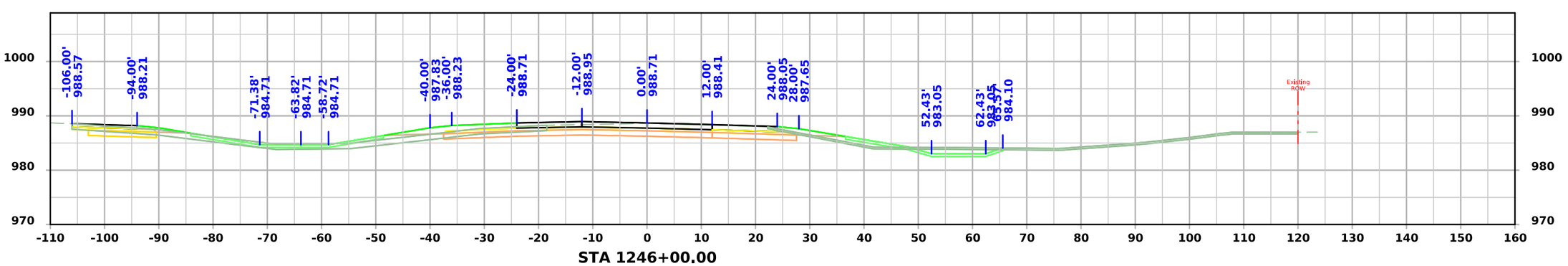
ML - I35 NB



STA 1247+00.00



STA 1246+50.00

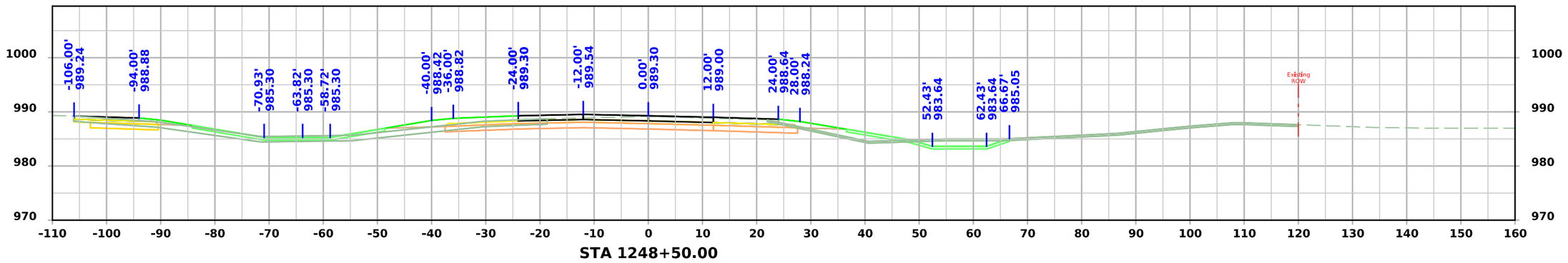


STA 1246+00.00

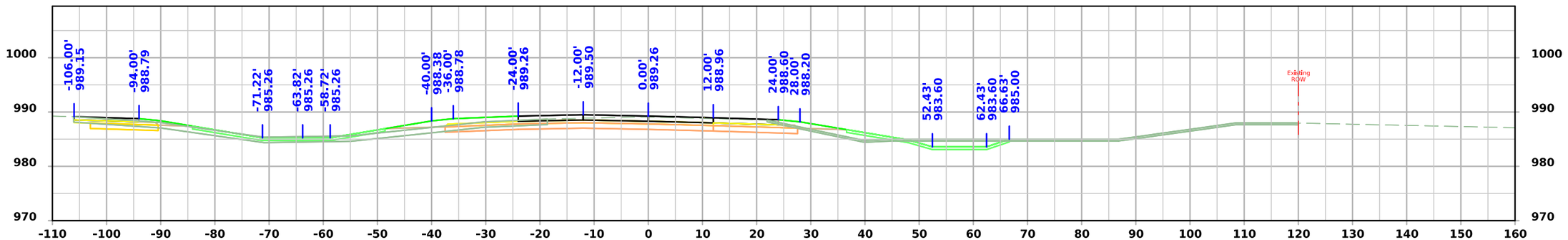
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.125

10:04:18 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

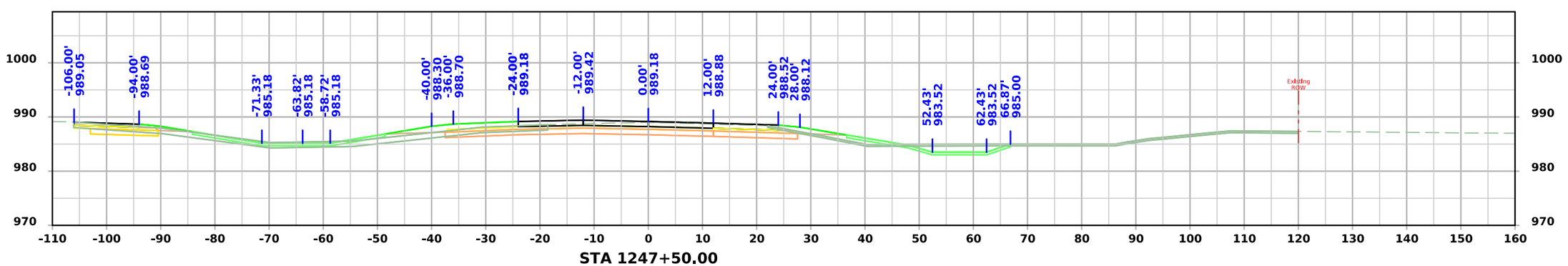
ML - I35 NB



STA 1248+50.00



STA 1248+00.00

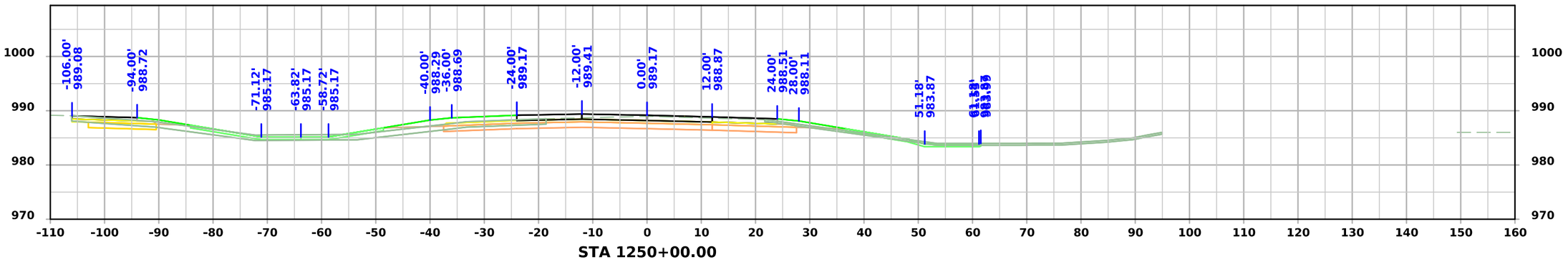


STA 1247+50.00

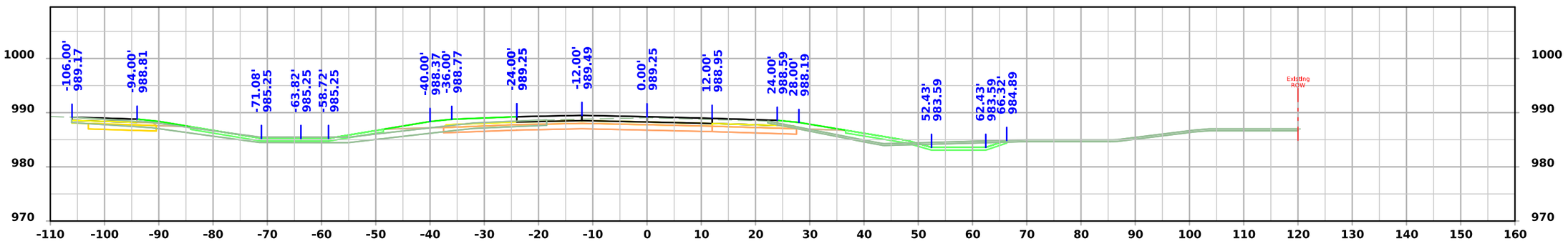
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.126

10:04:21 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

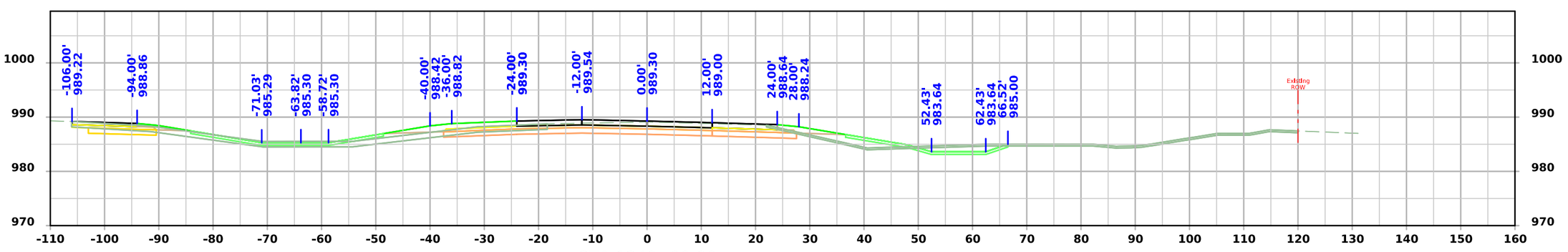
ML - I35 NB



STA 1250+00.00



STA 1249+50.00

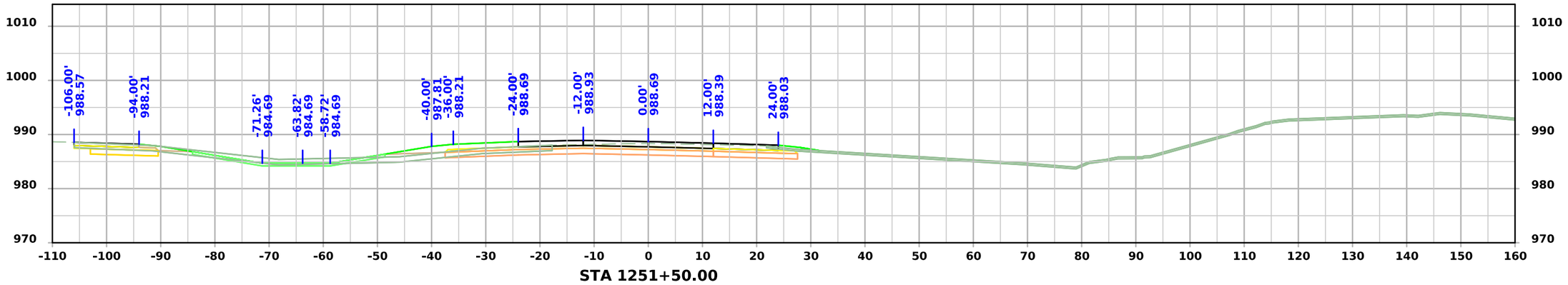


STA 1249+00.00

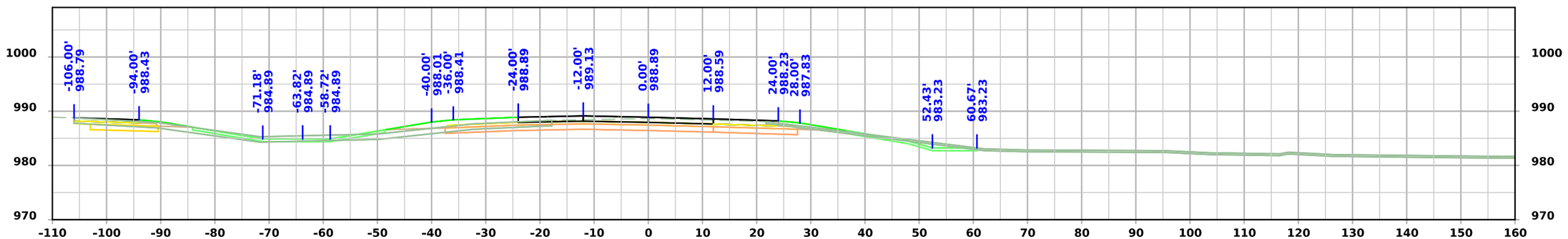
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.127

10:04:23 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

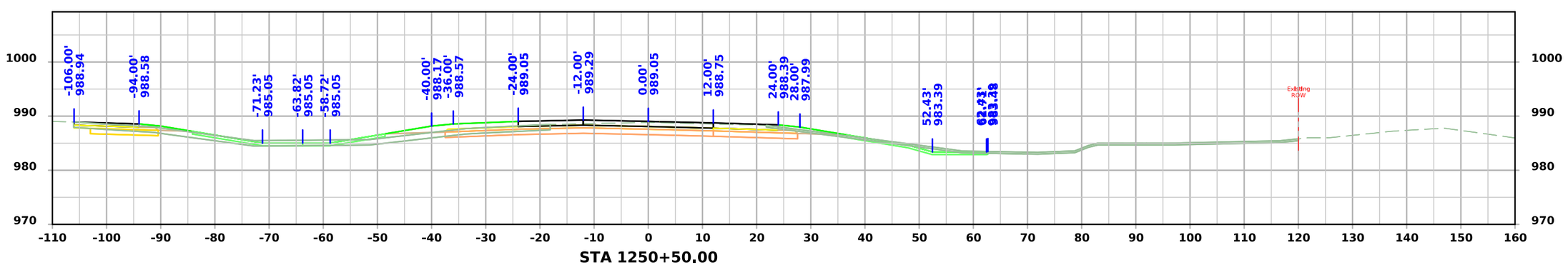
ML - I35 NB



STA 1251+50.00



STA 1251+00.00

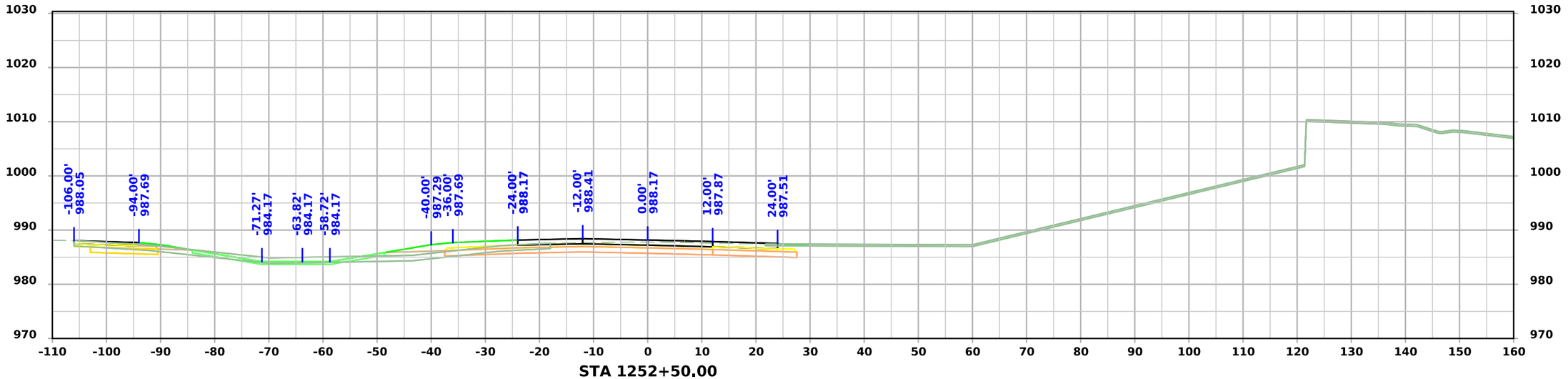


STA 1250+50.00

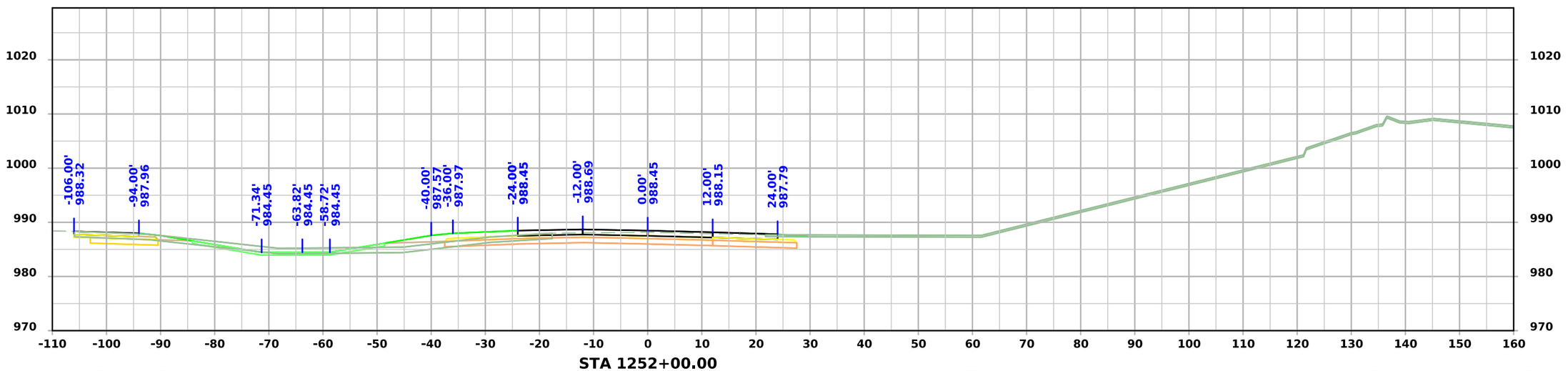
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.128

10:04:25 AM 7/8/2026 mkjartanson 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+50.00

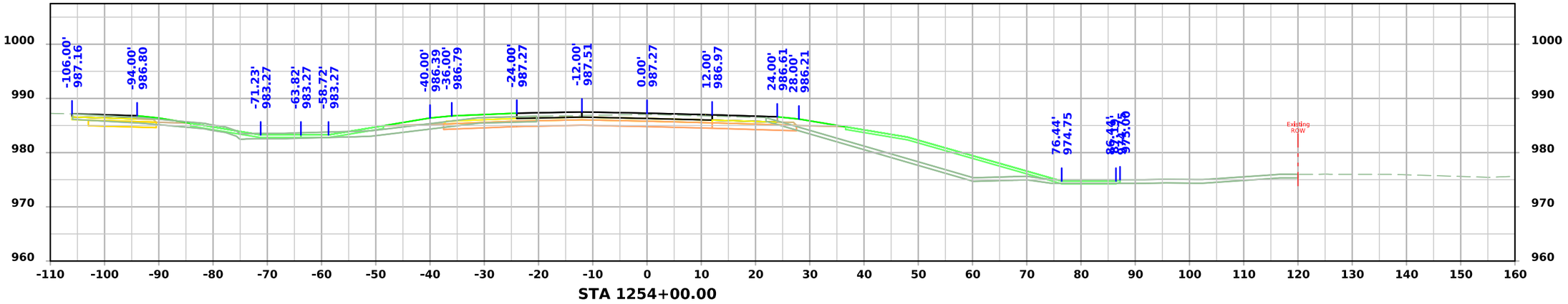


STA 1252+00.00

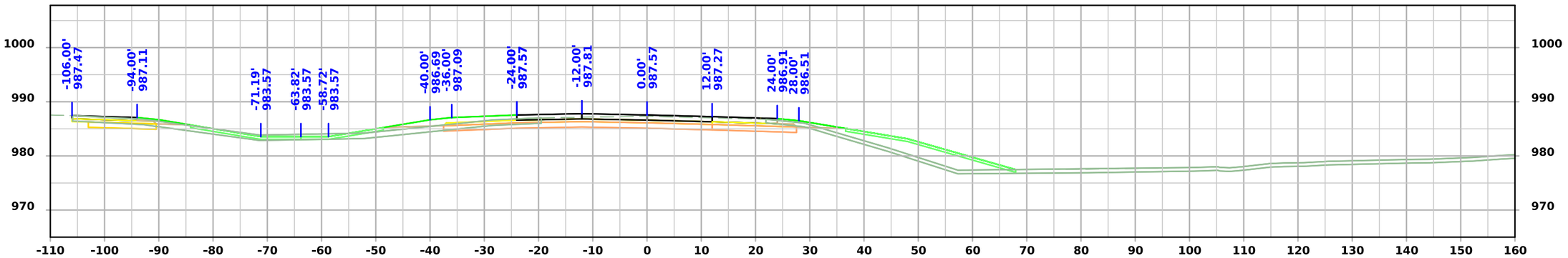
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.129

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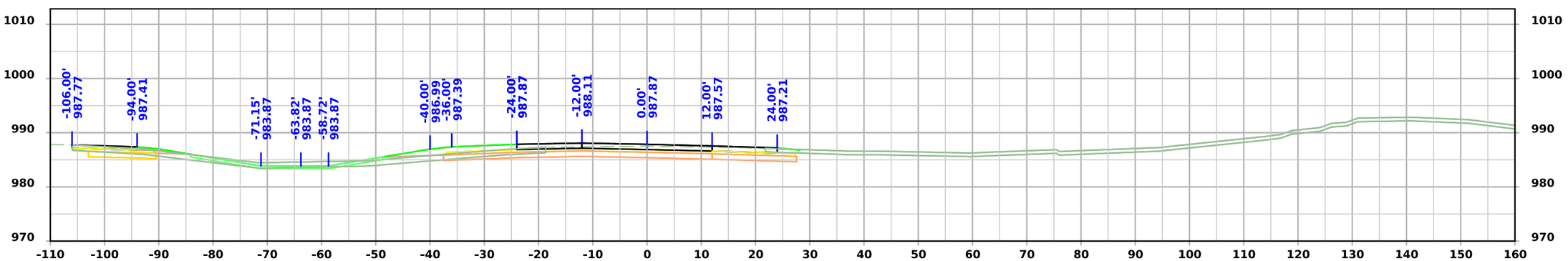
ML - I35 NB



STA 1254+00.00



STA 1253+50.00

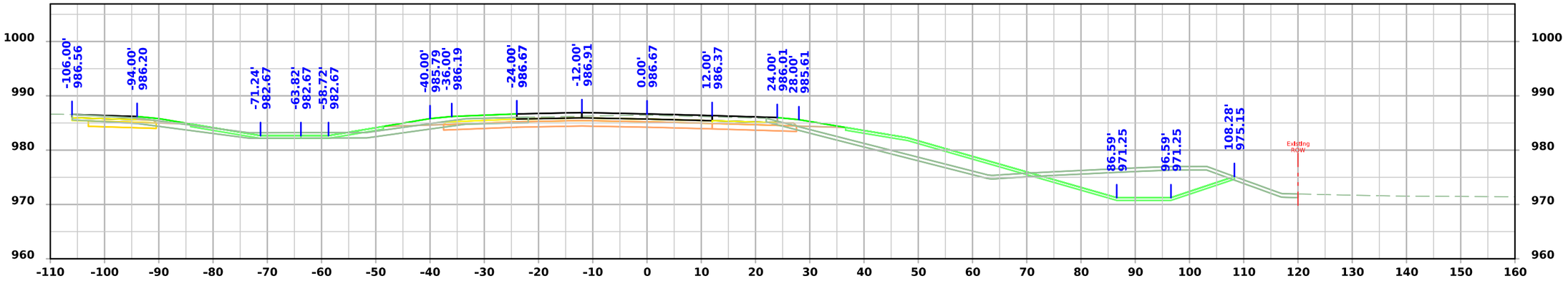


STA 1253+00.00

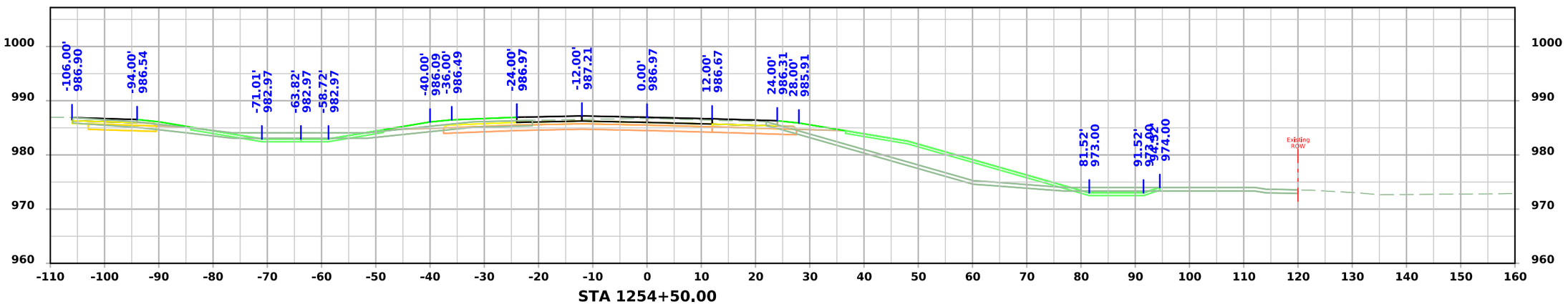
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.130

10:04:30 AM 7/8/2026 mkjartanson 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+00.00

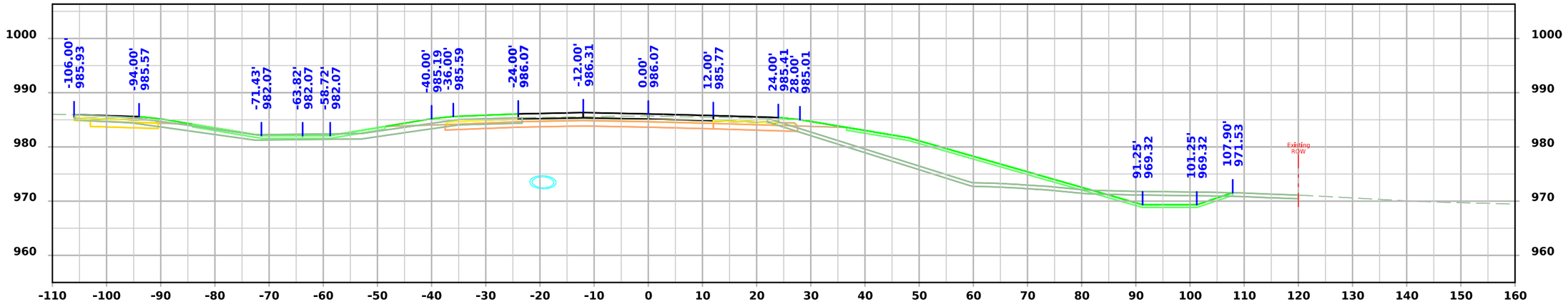


STA 1254+50.00

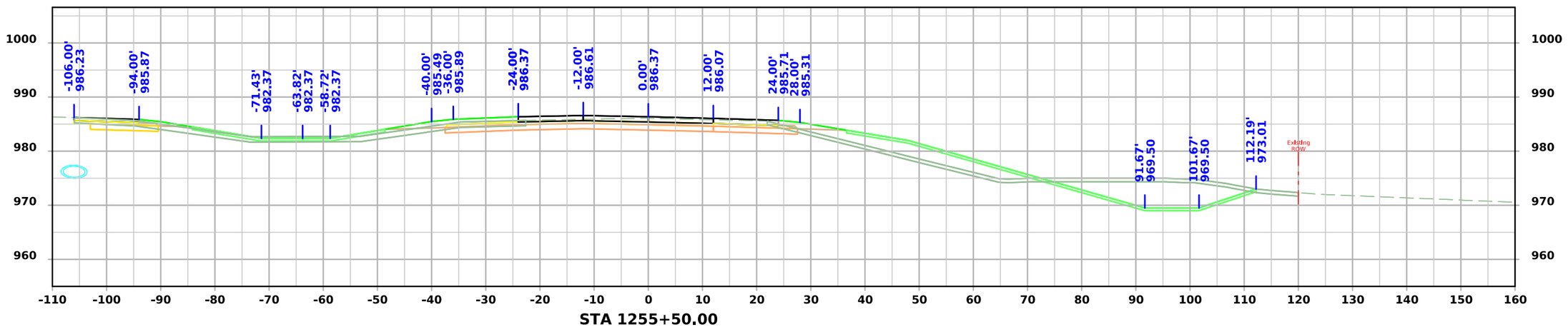
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.131

10:04:32 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB

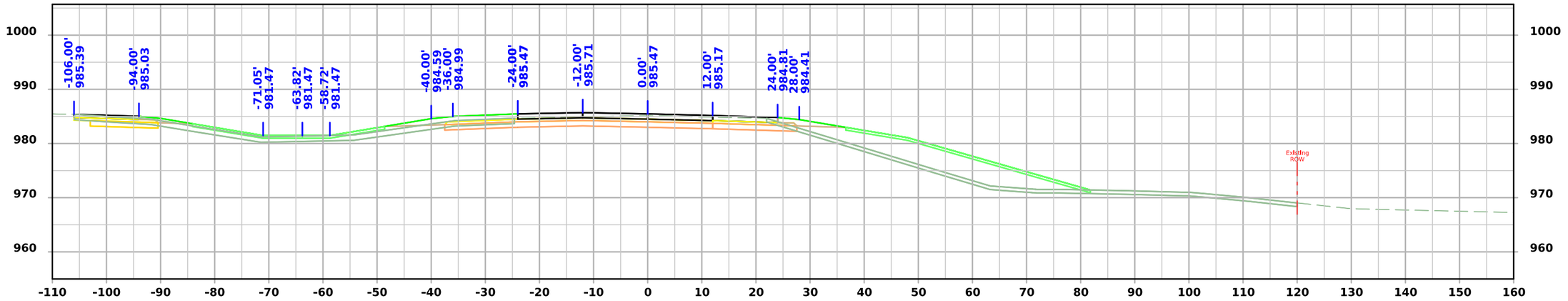


STA 1256+00.00

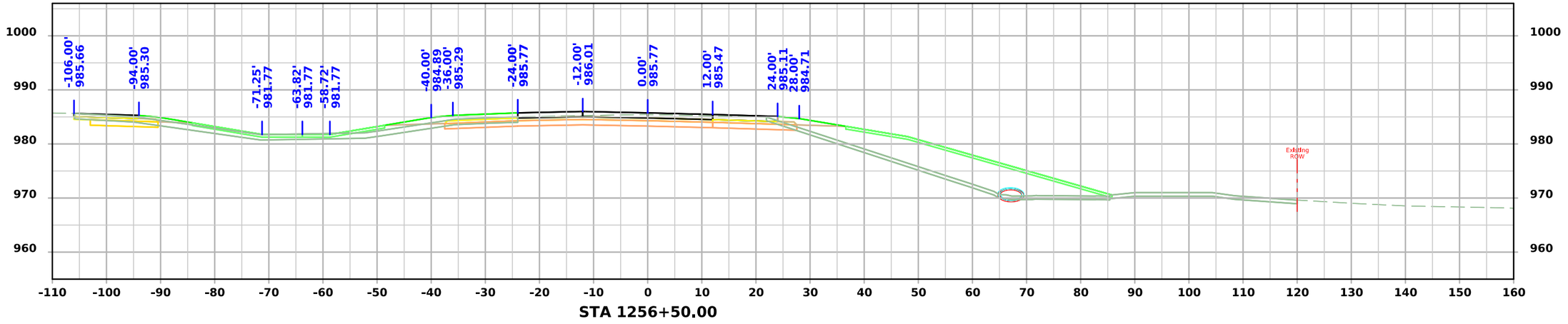


STA 1255+50.00

ML - I35 NB



STA 1257+00.00

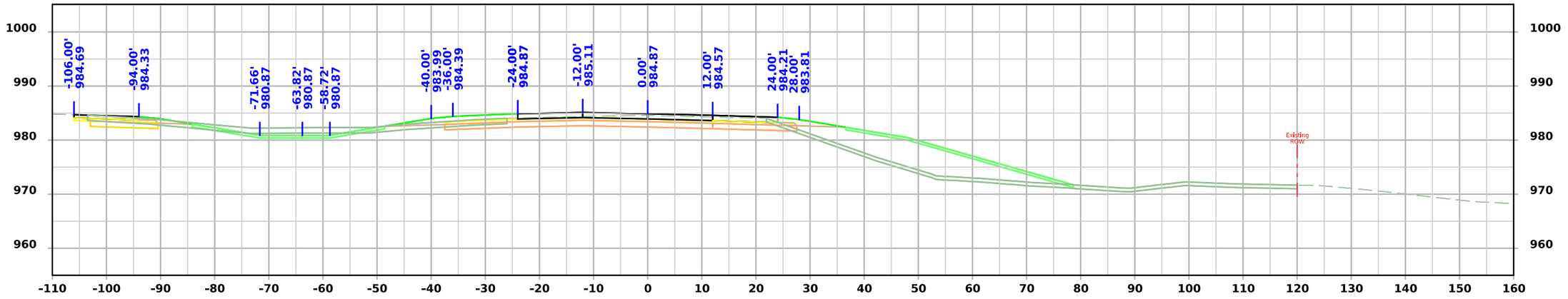


STA 1256+50.00

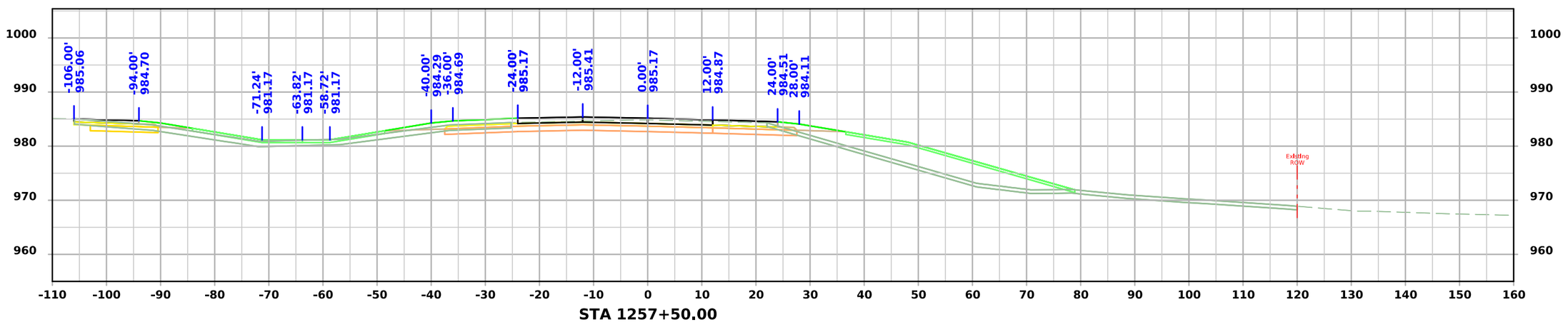
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.133

10:04:36 AM 7/8/2026 mkjartanson 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 1258+00.00

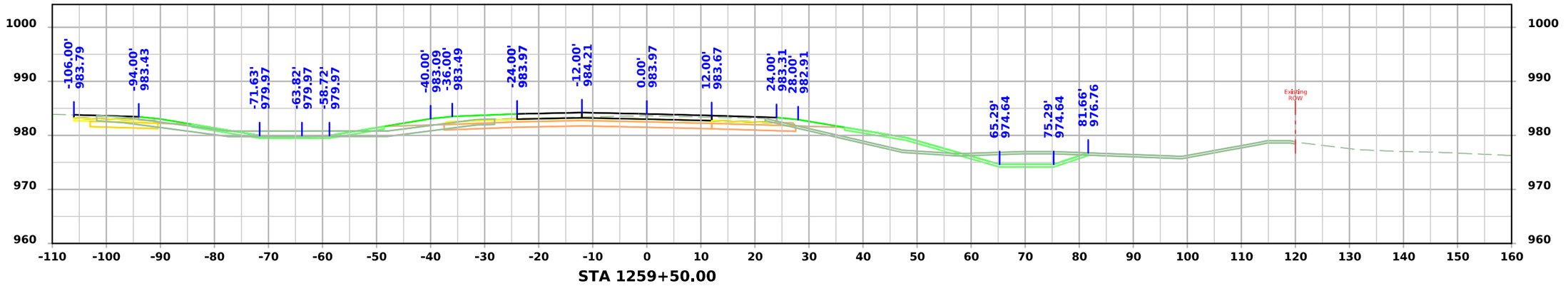


STA 1257+50.00

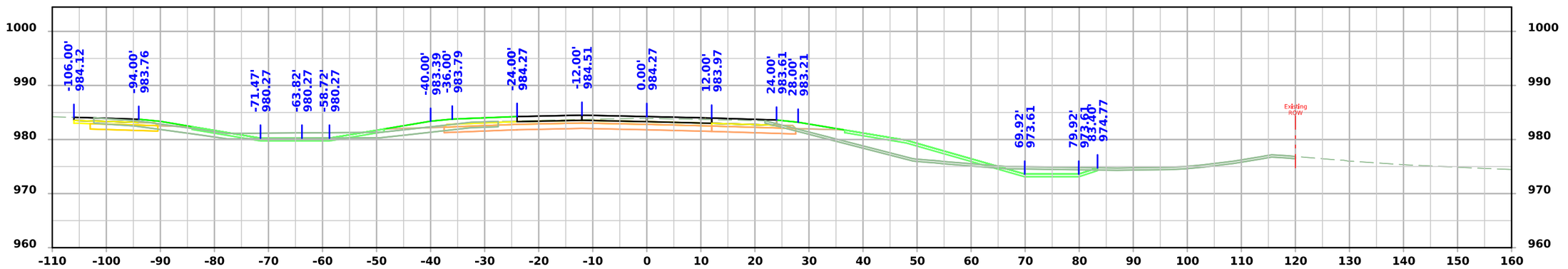
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.134

10:04:37 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

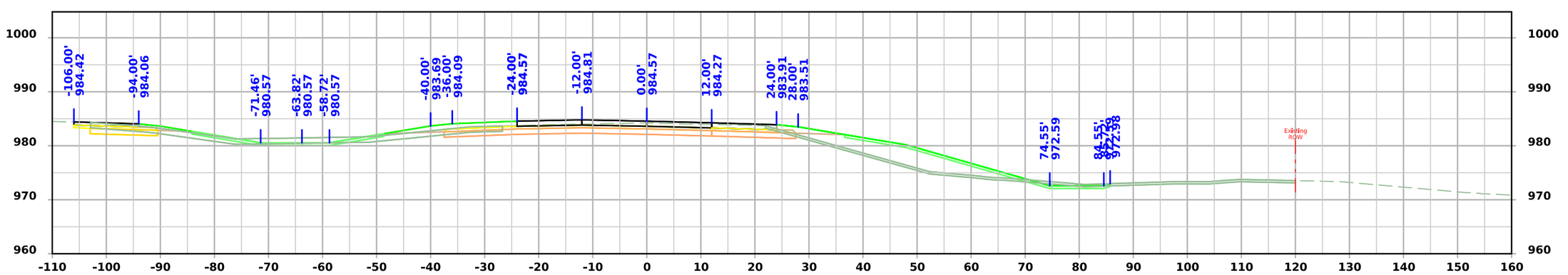
ML - I35 NB



STA 1259+50.00



STA 1259+00.00

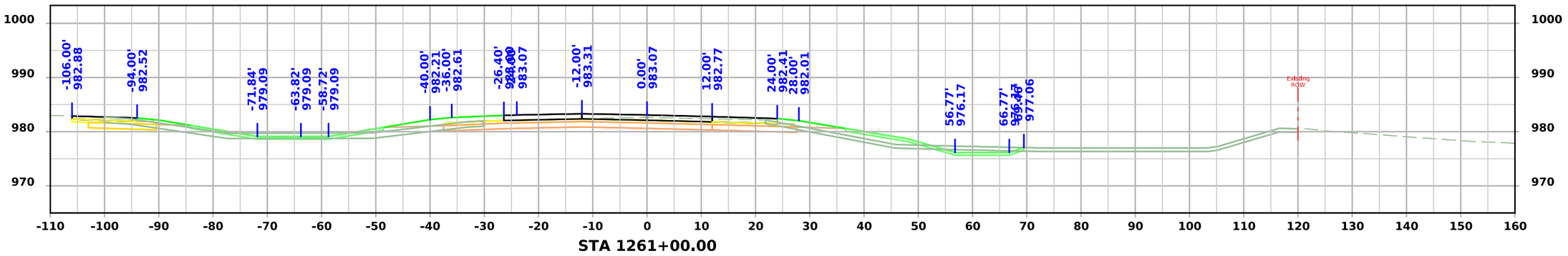


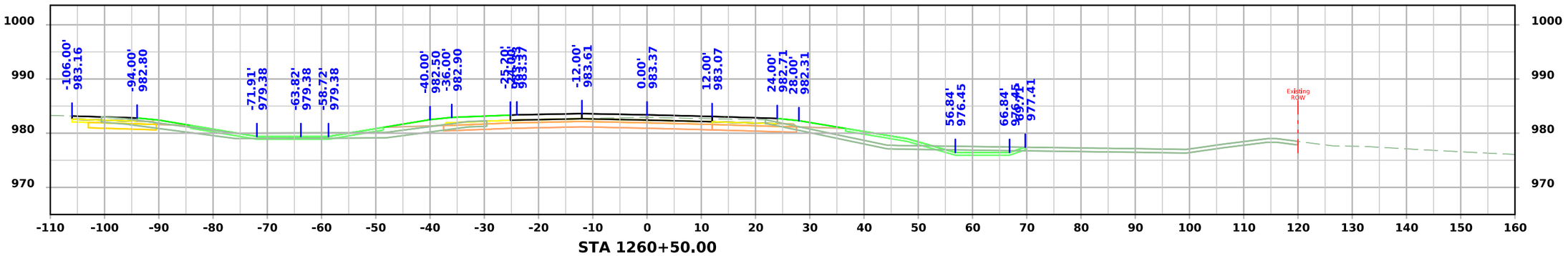
STA 1258+50.00

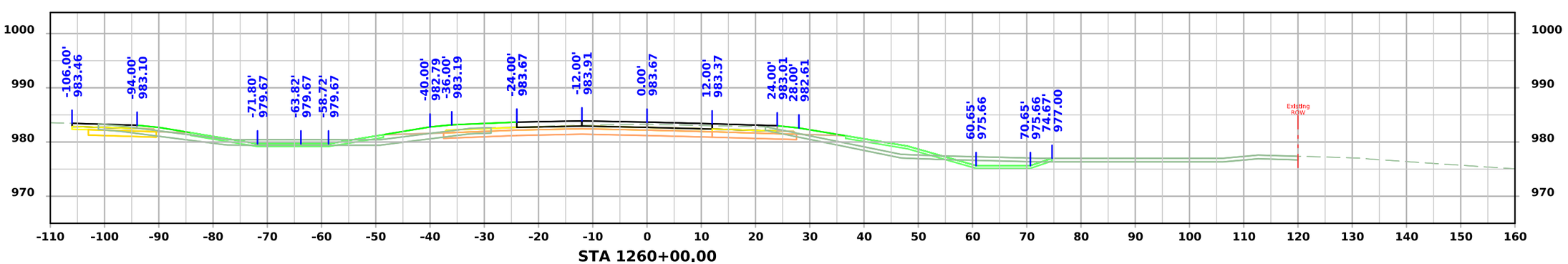
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.135

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ML - I35 NB



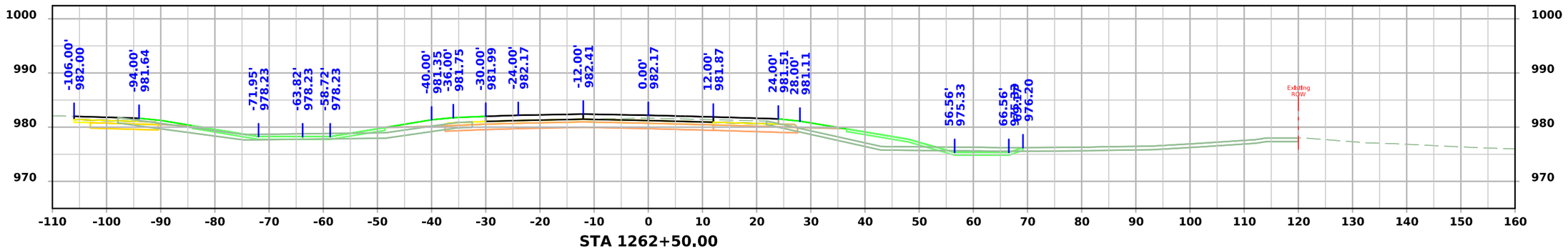


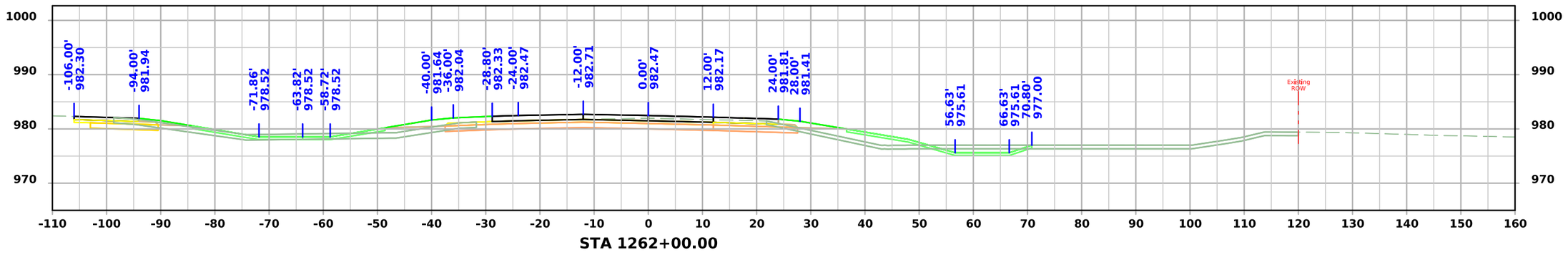


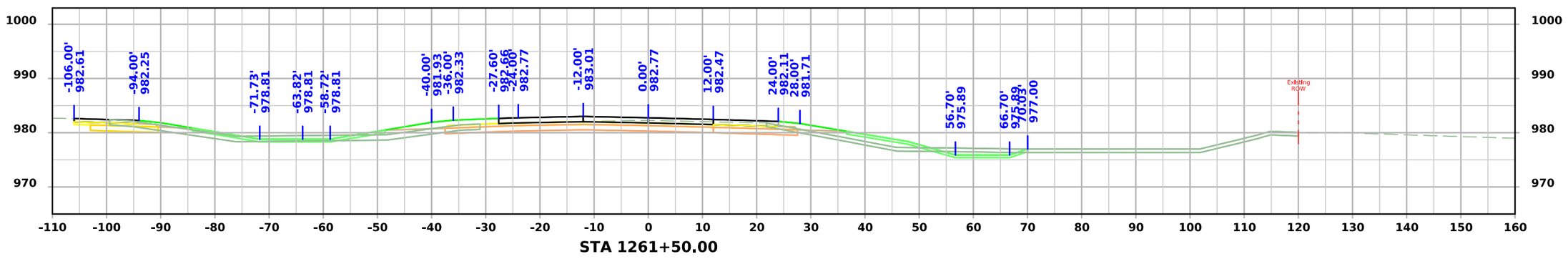
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.136

10:04:42 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn

ML - I35 NB



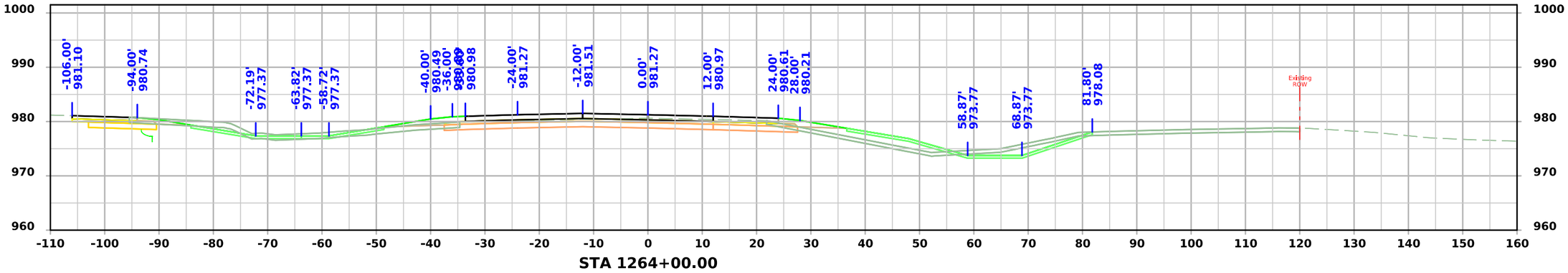




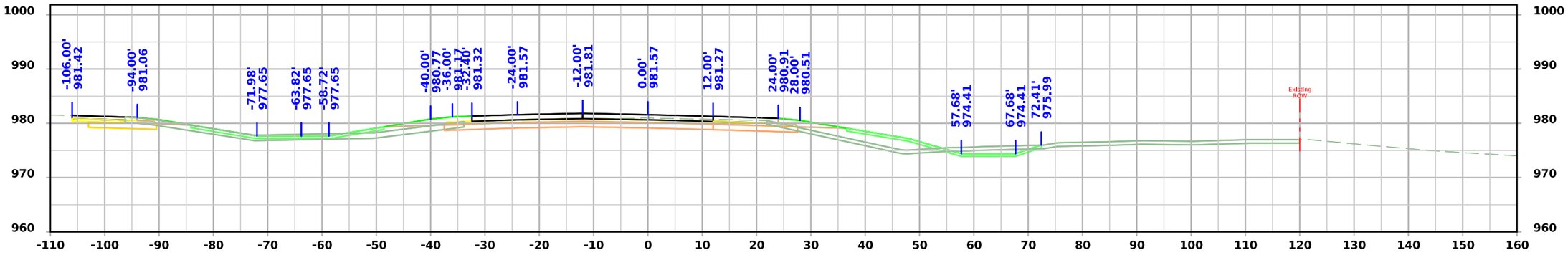
FILE NO. –	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.137

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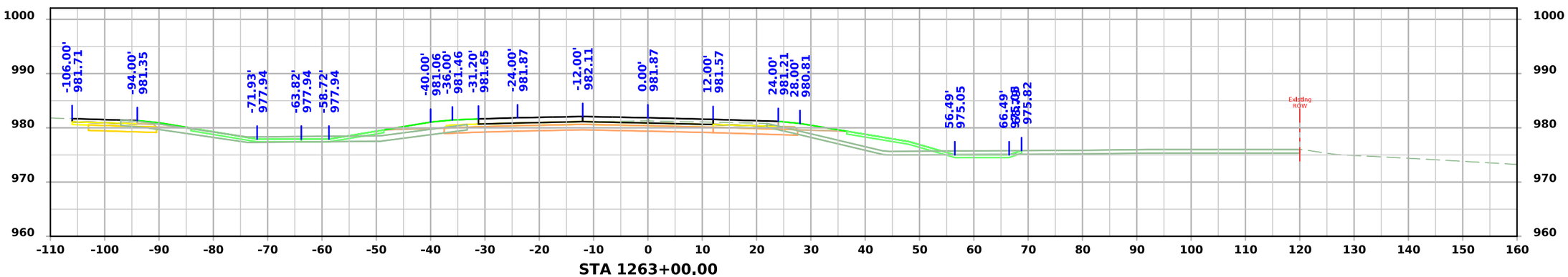
ML - I35 NB



STA 1264+00.00



STA 1263+50.00

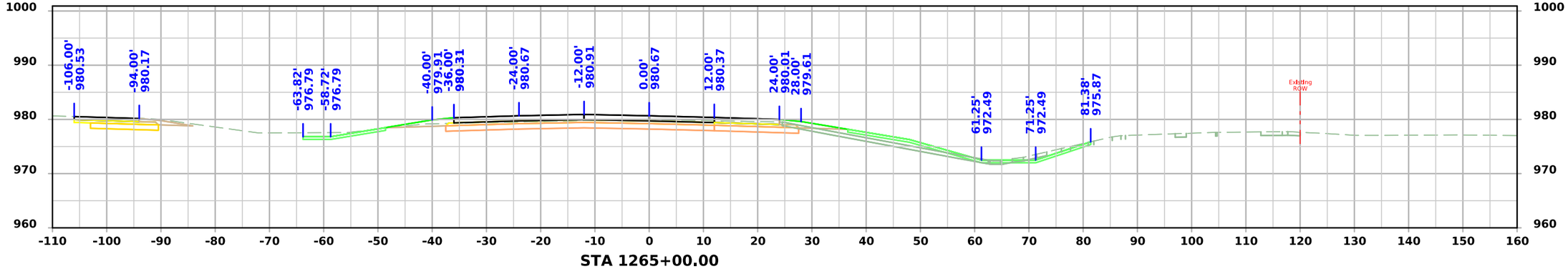


STA 1263+00.00

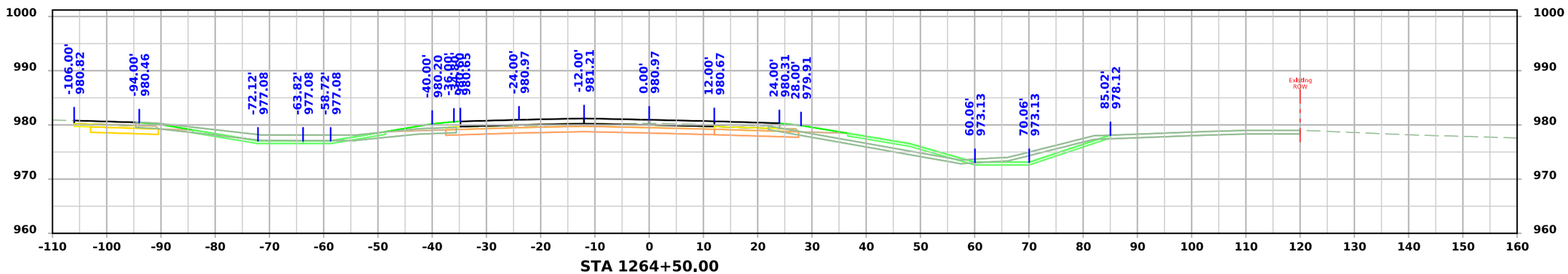
FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.138

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ML - I35 NB



STA 1265+00.00



STA 1264+50.00

FILE NO. -	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	WARREN COUNTY	PROJECT NUMBER IM-NHS-035-2(467)63--03-91	SHEET NUMBER W.139

10:04:49 AM 7/8/2026 mkjartanson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9103503000\Design\(467)_Grading&Paving_G14toAdams(NB)\CADD Files\SHT_91035467_W01.dgn