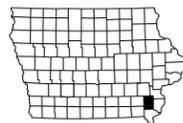


HENRY COUNTY

Bridge Replacement - CCS  
BRF-078-4(031)--38-44

LETTING DATE  
12-21-2027



INDEX OF SHEETS	
No.	DESCRIPTION
<b>A Sheets</b>	<b>Title Sheets</b>
A.1	Title Sheet
A.2	Location Map Sheet
<b>B Sheets</b>	<b>Typical Cross Sections and Details</b>
B.1 - 3	Typical Cross Sections and Details
<b>D Sheets</b>	<b>Mainline Plan and Profile Sheets</b>
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 78
<b>G Sheets</b>	<b>Survey Sheets</b>
G.1	Reference Ties and Bench Marks
G.2	Control Point Vicinity Map
G.3	Horizontal and Vertical Control Tab.
G.4	Alignment Coordinate Tab.
<b>J Sheets</b>	<b>Traffic Control and Staging Sheets</b>
J.1	Traffic Control Plan, Coordinated Operations, 511 Travel Restrictions
* J.2	Detour Route
<b>V Sheets</b>	<b>Bridge and Culvert Situation Plans</b>
* V.1 - 2	TSL Sta. 191+91.80 120'x40' CCS Bridge
<b>W Sheets</b>	<b>Mainline Cross Sections</b>
* W.1	Cross Sections Legend & Symbol Information Sheet
* W.2 - 12	Mainline Cross Sections
<b>Z Sheets</b>	<b>Entrance Cross Sections</b>
Z.100	IA 78 Entrances
	* Color Plan Sheets



PLANS OF PROPOSED IMPROVEMENT ON THE  
**PRIMARY ROAD SYSTEM**  
**HENRY COUNTY**  
Bridge Replacement - CCS  
Stream 2.0 mi W of W Jct Co Rd W66

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



REVISIONS

TOTAL	28
PROJECT IDENTIFICATION NUMBER	23-44-078-020
PROJECT NUMBER	BRF-078-4(031)--38-44
R.O.W. PROJECT NUMBER	STPN-078-4(032)--2J-44

DESIGN DATA RURAL			
2028	AADT	1200	V.P.D.
2048	AADT	1500	V.P.D.
20	- DHV	-	V.P.H.
	TRUCKS	8	%
	Total		
	Design ESALS	-	

INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Kelly C. Bell	Primary Signature Block	X
V.1	Jimmy Ellis	Hydraulic Design	X

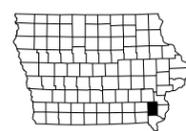
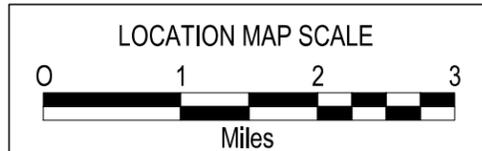
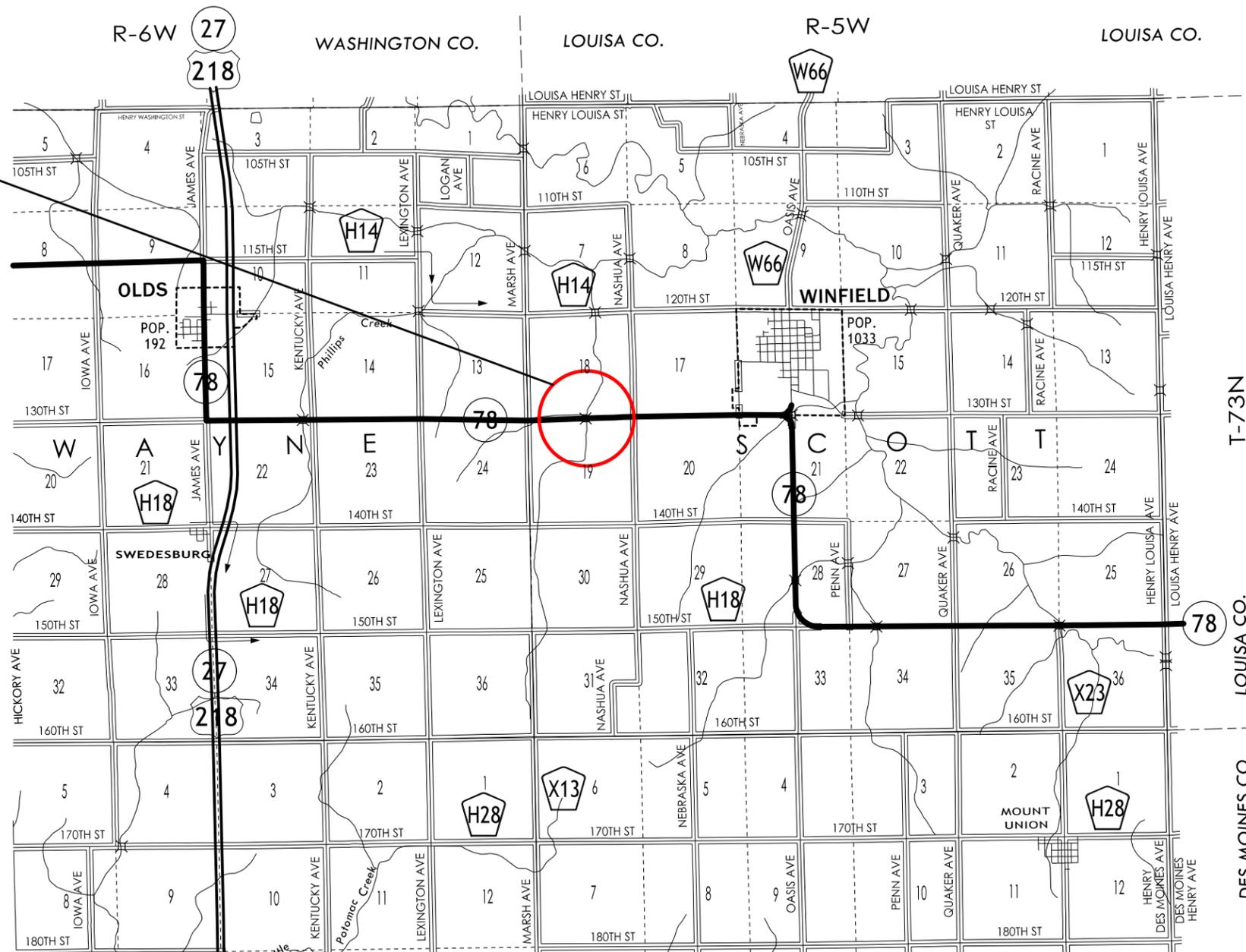
PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: Jan. 29, 2026

# HENRY COUNTY

STA 191+91.80  
 FHWA# 28570  
 MAINT. 441.5S078  
 DESIGN 222



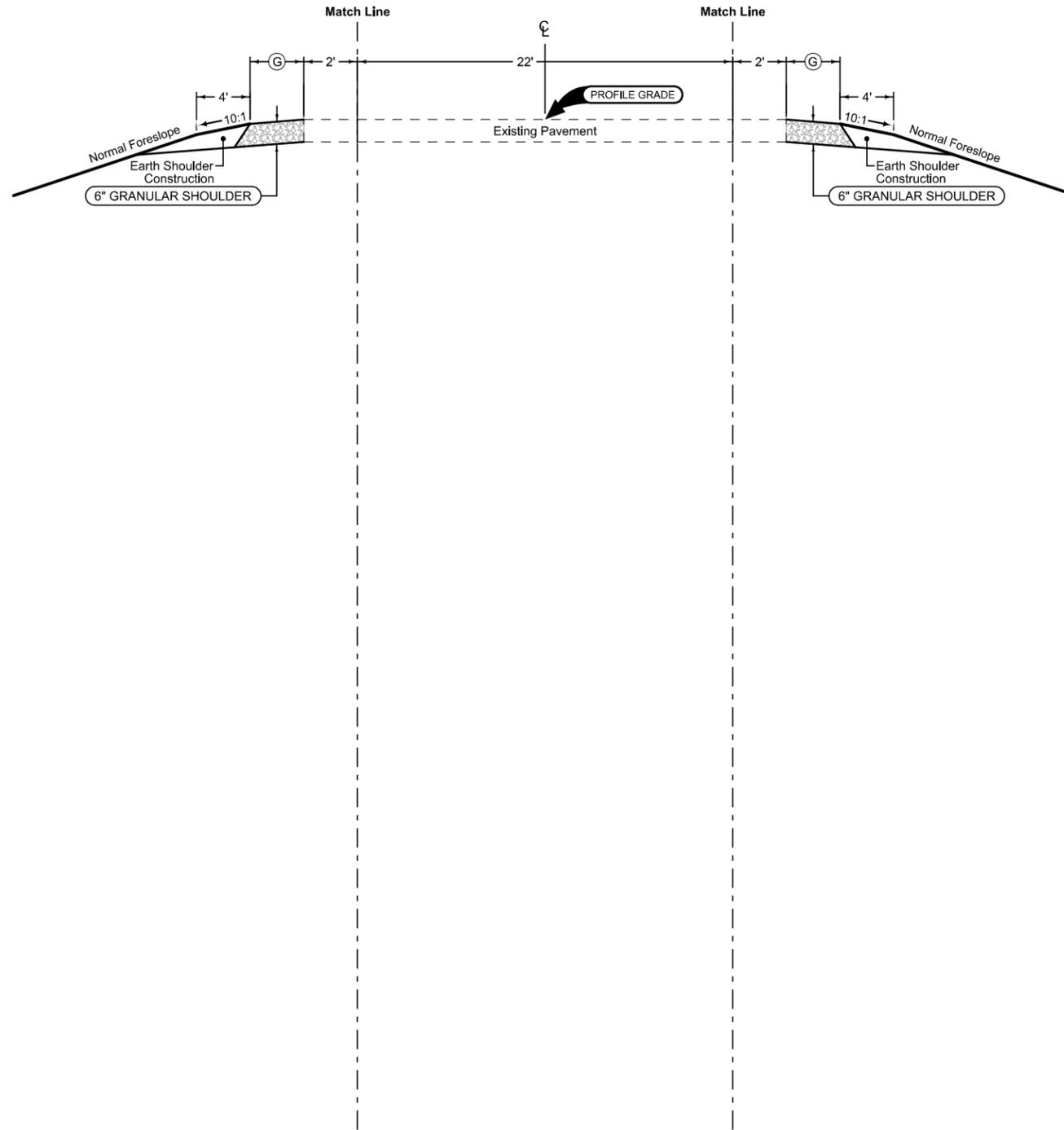


2E  
10-19-10

**Full Depth PCC Combination Shoulder**

Shoulder Jointing:  
Longitudinal joint: BT-2, or L-2  
Transverse joints: C at 17' spacing

2_C_FullPCC_04-15-25		
STATION TO STATION		Ⓞ Feet
188+88.00	194+95.00	3'



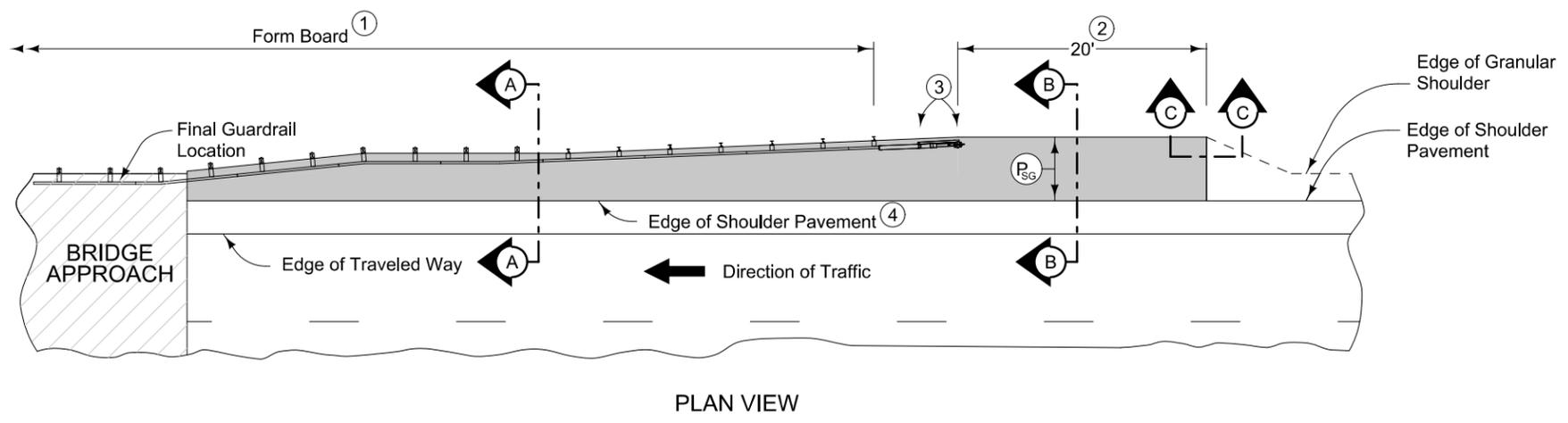
**Full Depth PCC Combination Shoulder**

Shoulder Jointing:  
Longitudinal joint: BT-2, or L-2  
Transverse joints: C at 17' spacing

2_C_FullPCC_04-15-25		
STATION TO STATION		Ⓞ Feet
188+88.00	194+95.00	3'

See Tab. 100-24 and  
Tab. 112-9 for Quantities

IA 78

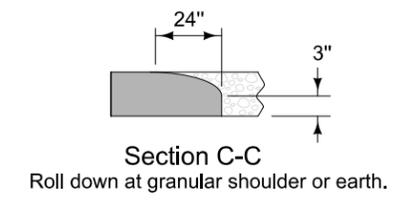
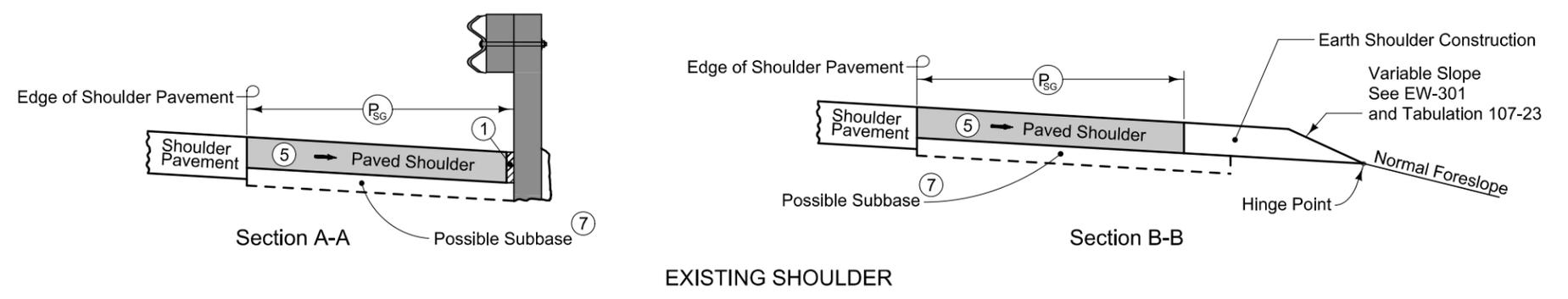
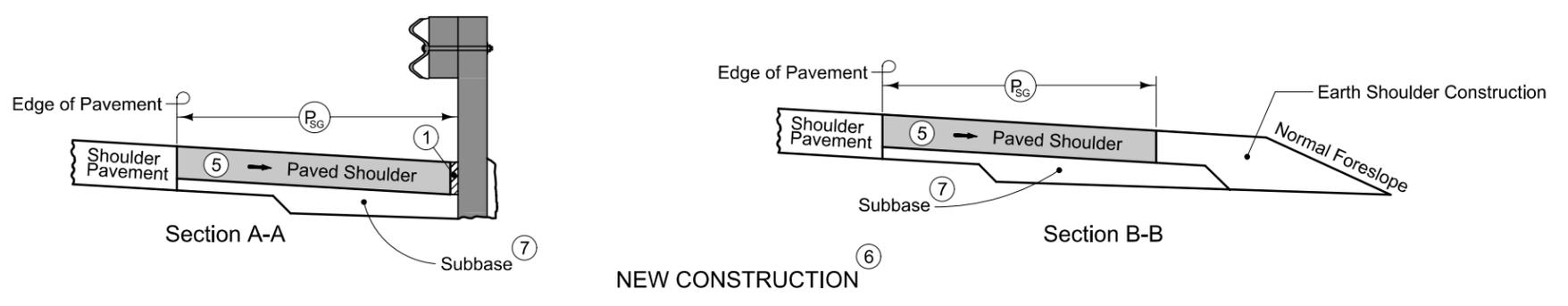


6" PCC Paved Shoulder at guardrail with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Refer to Tabulation 112-9 for shoulder quantities.

- ① When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
- ② Continue paved shoulder 20 feet beyond the center of the first post.
- ③ Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ④ 'BT' joint (per PV-101) for PCC shoulder.
- ⑤ Match shoulder slope.
- ⑥ The Contractor has the option to pave the paved shoulder at guardrail and the partial width paved shoulder as one operation.
- ⑦ Refer to other details in the plan.



PAVED SHOULDER AT GUARDRAIL  
(ADJACENT TO PARTIAL WIDTH PAVED SHOULDER)

### 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
- Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- Water Hook Up
- Radio Tower
- Tower Anchor
- Guardrail (Beam or Cable)
- Guard Post (one or two)
- Guard Post (over two)
- Filler Pipe
- Gas Valve
- Water Valve
- Speed Limit Sign
- 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

#### SURVEYED UTILITY OWNER SYMBOLS

Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Remark Abbreviations  
 QLA Quality Level A Highest guideline quality level  
 QLD Quality Level D Lowest guideline quality level

- T1 - **TL1D, Telephone Line Co. 1 - Quality D**
- PPA, **Power Pole Co. 1**

### 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.	Transparency
Pink, Dark	(13)		Temporary Pavement Shading 50%
Yellow	(4)		Proposed Pavement Shading 50%
Orange	(6)		Proposed Granular Shading 50%
Orange	(70)		Proposed Shoulder Granular Shading 50%
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading 50%
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading 50%
Brown, Light	(236)		Grading Shading 50%
Orange, Light	(134)		Proposed Granular Entrance Shading 50%
Yellow	(220)		Proposed Paved Entrance Shading 50%
Tan	(8)		Proposed Sidewalk Shading 50%
Blue, Light	(230)		Proposed Sidewalk Landing Shading 50%
Pink	(11)		Proposed Sidewalk Ramp Shading 50%
Red	(3)		Proposed Structure Shading 50%
Red	(3)		Delineates Restricted Areas 0%

### 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

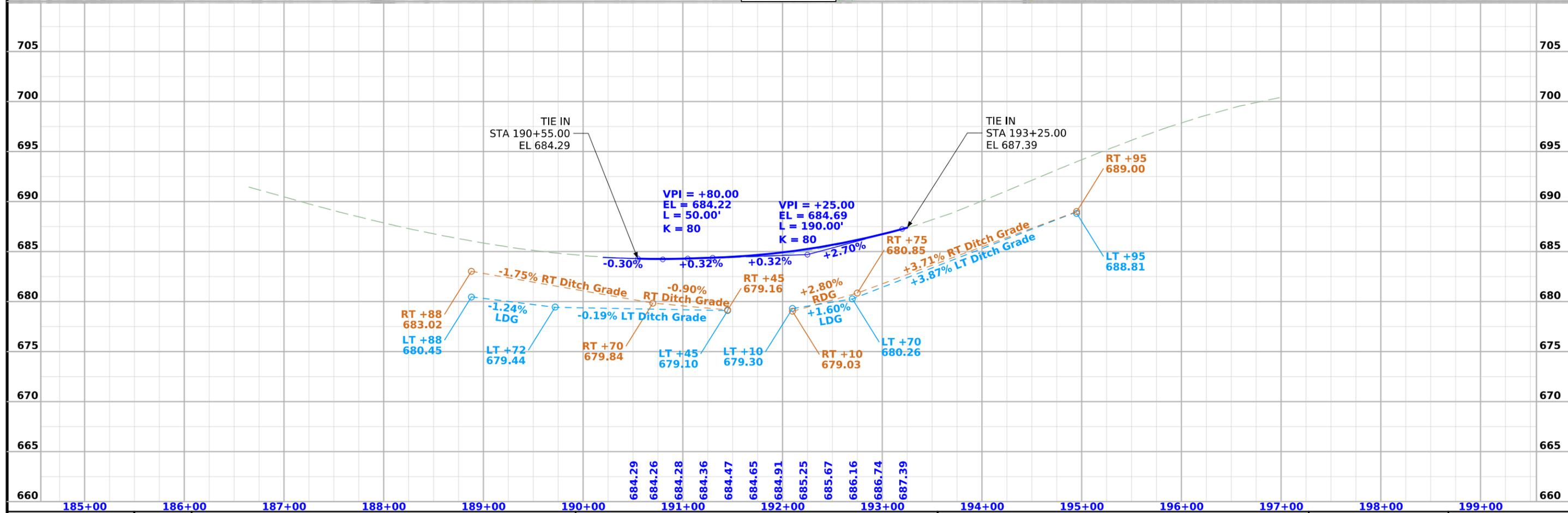
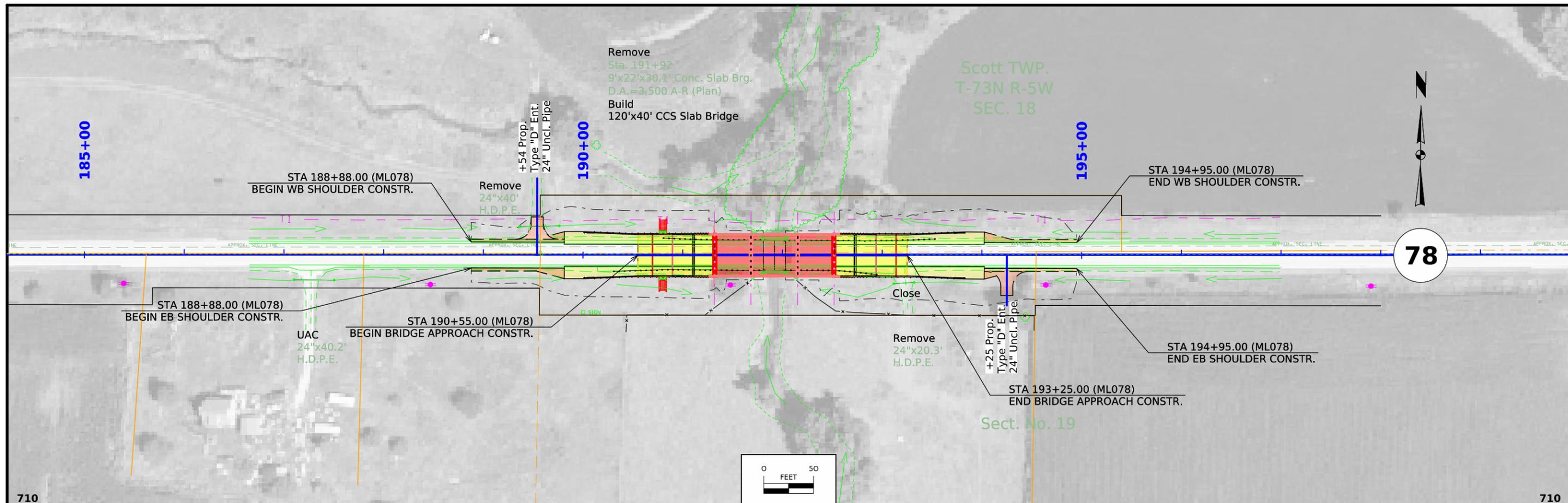
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

### RIGHT-OF-WAY LEGEND

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

## PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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



FILE NO.	ENGLISH	DESIGN TEAM	Flattery/Bell/Ofilanda	HENRY COUNTY	PROJECT NUMBER	BRF-078-4(031)--38-44	SHEET NUMBER	D.2
----------	---------	-------------	------------------------	--------------	----------------	-----------------------	--------------	-----

Survey Information

**SURVEY INDEX**

**County: Henry**  
**Project Code: 23-44-078-020**  
**Phase Number: BRF-078-4(031)--38-44**  
**Location: Stream 2.0 mi W of W Jct Co Rd W66**  
**Type of Work: Bridge-Unspecified**  
**Project Directory: 4407802023**

**Survey Personnel**

Samuel Schilb – Assistant Survey Party Chief

**Date(s) of Survey**

Begin Date 06/10/2024  
End Date 08/21/2024

**General Information**

This survey is for Hwy 78 Stream 2.0 mi W of W Jct Co Rd W66. This survey request was for the Hwy 78 corridor only. This project is a Full Field DTM survey.

**Utility Information**

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

**Project Control**

Coordinates were determined for primary project control points by conducting concurrent six-hour static observations. Post processing is constrained to nearby Iowa Real Time Network reference stations. For additional details of the control survey, contact the Preliminary Survey department.

**PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)**  
**COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 14**  
**(U.S. SURVEY FOOT)**  
**VERTICAL DATUM: NAVD88**  
**GEOID MODEL: 2018u3**

**Alignment Information**

Alignment for this project was provided by the District 5 Land Survey Office.

## 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) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 14 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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) for EPOCH 2010.00 (IaRTN 2019 Adjustment)  
 Ia. Regional Coordinate System Zone 14 (U.S. Survey Foot)  
 VERT. DATUM: NAVD88  
 Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code Description
606999	6519072.65	24434966.86	728.65	CP From the intersection of Hwy 78 and Marsh Ave process North 2410 feet and 35 feet East of cl to found NGS monument 12" above ground
300	6516722.74	24437042.68	692.31	CP From the intersection of Hwy 78 and Marsh Ave process East 2120 feet and North 50 feet of cl to found 5/8" by 42" rebar 4" below ground
301	6516731.57	24438439.05	705.07	CP From the intersection of Hwy 78 and Nashua Ave process West 1820 feet and North 64 feet of cl to found 5/8" by 42" rebar 4" below ground

**ALIGNMENT COORDINATES**

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
1	ML078	162+75.925 R1	6516669.26	24434925.68															
2	ML078	198+00.000 R1	6516693.02	24438449.68															
2	ML078	216+10.012 R1	6516717.98	24440259.52															
1	ENT189L	0+00.00	6516687.31	24437603.69															
1	ENT189L	0+77.00	6516764.31	24437603.18															
1	ENT194R	0+00.000	6516690.49	24438074.68															
1	ENT194R	0+50.000	6516640.49	24438075.02															

108-23A  
08-01-08

**TRAFFIC CONTROL PLAN**

Iowa 78 will be closed to thru traffic during construction.

Iowa 78 shall be maintained via offsite detour. Detour will be signed and maintenance shall be done by contractor. See J.2 for detour.

111-01  
04-17-12

**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
	None provided.

108-25  
10-21-14

**511 TRAVEL RESTRICTIONS**

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			No travel restrictions expected.									

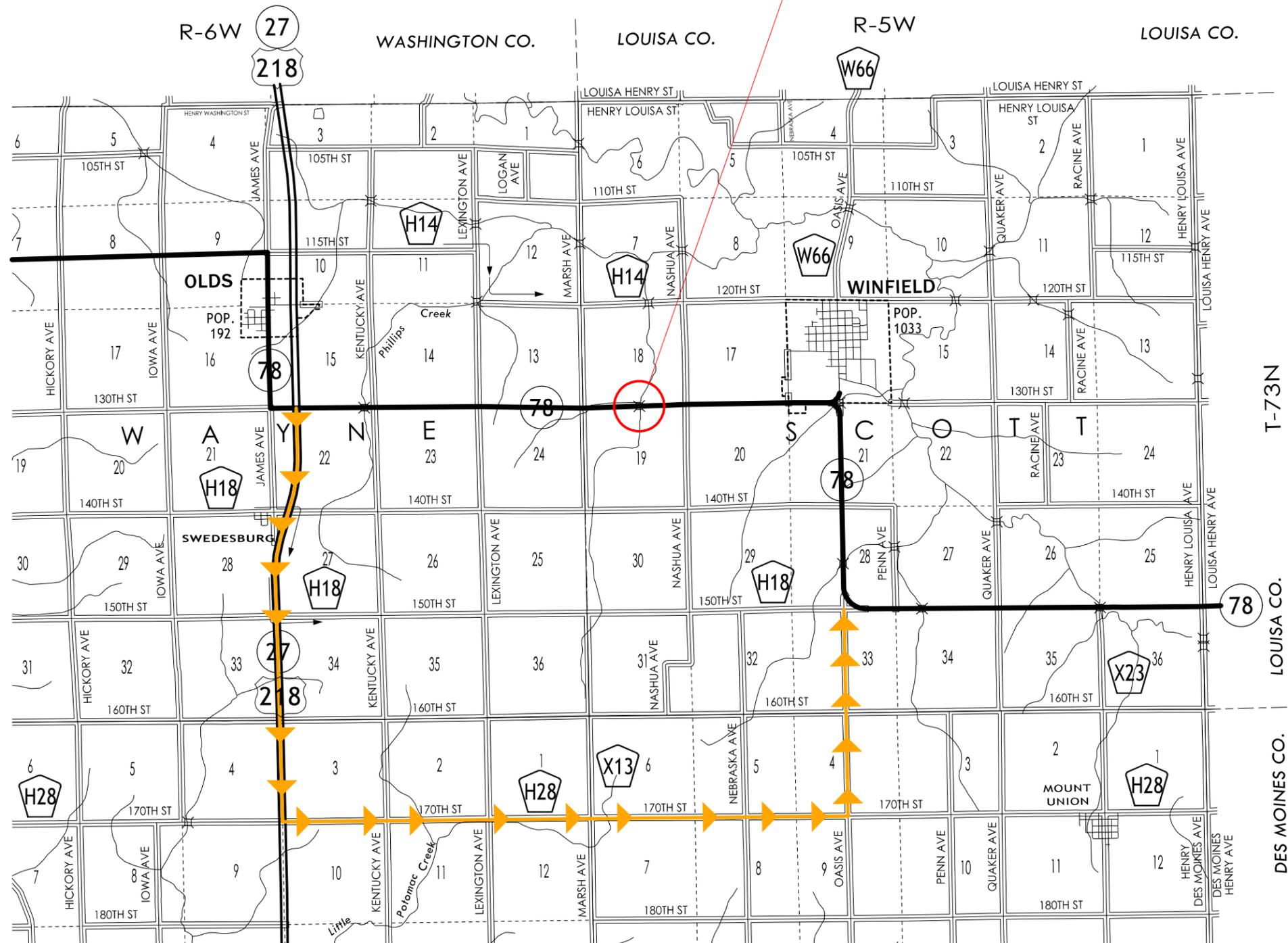
NOT TO SCALE



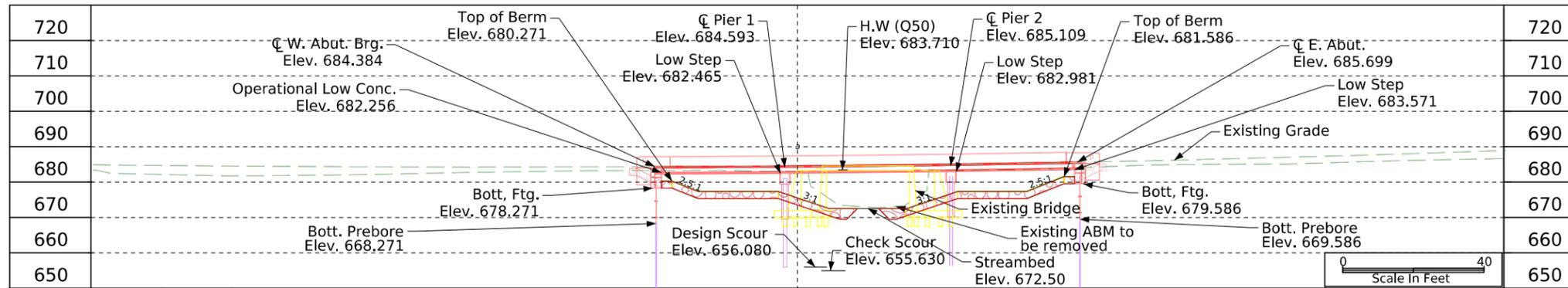
Detour Route



Project Location



Control Point: 301 N. 6516731.57 E. 24438439.05 Elev. 705.07 CP From the intersection of Hwy 78 and Nashua Ave process West 1820 feet and North 64 feet of CL to found 5/8" by 42" rebar 4" below ground

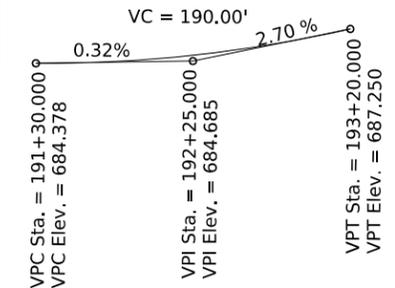


Longitudinal Section Along Centerline Approach Roadway

**Location**

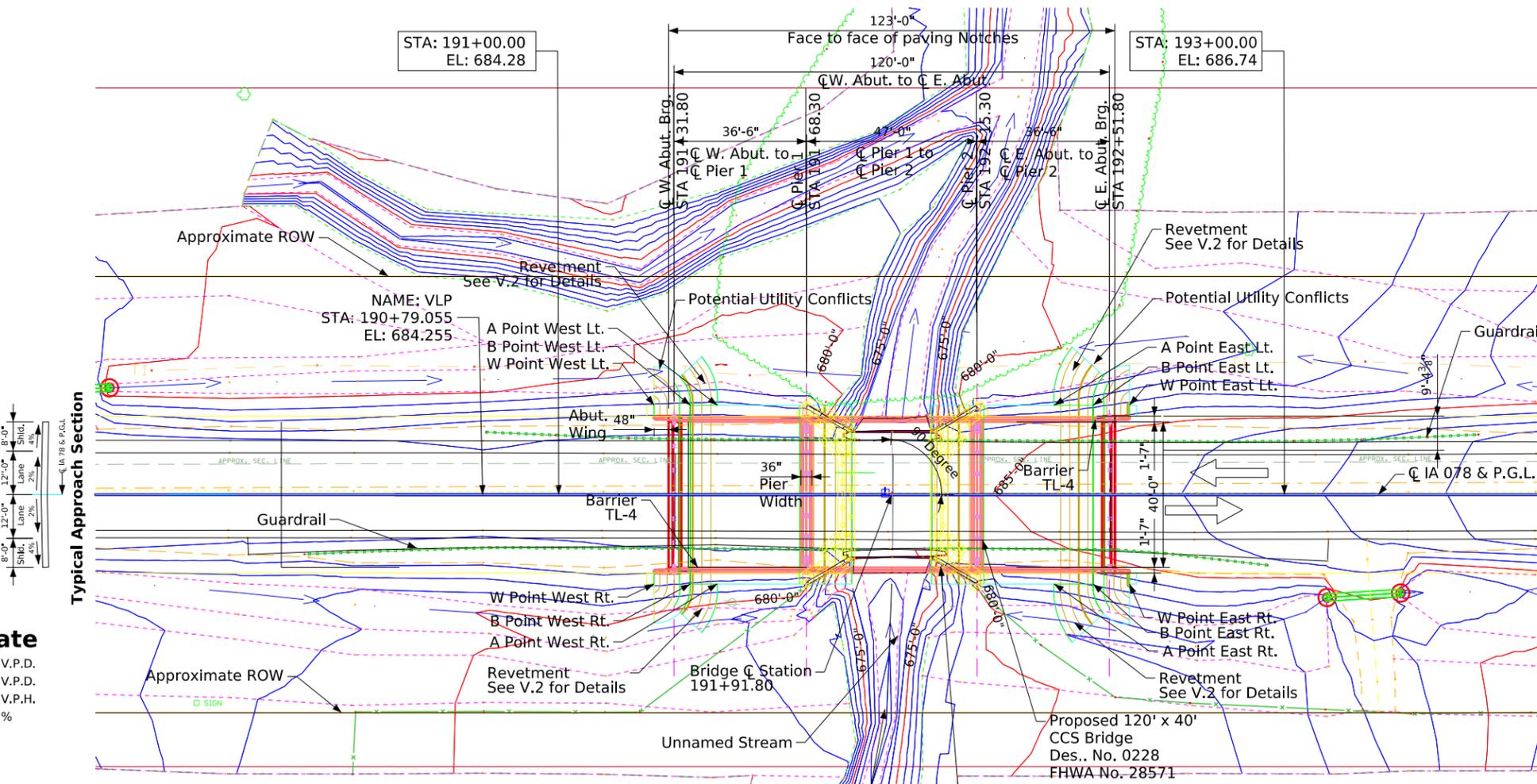
IA 78 (Over small Stream)  
 T-73N R-5W  
 Section 18-19  
 Scott Town Ship  
 Henry County  
 FHWA No. 028571  
 Bridge Maint. No. 4441.5S078  
 Existing FHWA No. 028570  
 Latitude 41.119016°  
 Longitude -91.475632°

**Existing Profile Grade IA 78**



**Hydraulic Data**

RIDB: "Not Applicable"  
 Drainage Area = 5.8 Sq. Mi.  
 Stream Slope (HGL) = 12.1 ft./Mi.  
 Avg. Low Water Stage = 673.950  
 Q<sub>200</sub> = 4560 cfs  
 Stage = 685.840  
 Avg. Bridge Velocity = 6.05 fps  
 Calculated Design Scour = 656.08  
 Operational Low Beam = 682.248  
 Channel Low Beam = 682.746  
 Q<sub>500</sub> = 5040 cfs  
 Channel Freeboard = -4.12 ft.  
 Avg. Bridge Velocity = 6.54 fps  
 Calculated Check Scour = 655.63  
 Roadway Overtop  
 Sta. 190+79.055  
 Elev. 684.255  
 Site is located within  
 Henry County,  
 Special Flood Hazard Area.  
 FEMA NFHL FIRMette Zone A  
 Map 19087C0175B eff. 10/7/2021  
 Q<sub>100</sub> = 3500 cfs  
 Stage = 684.570  
 Operational Freeboard = -2.32 ft.  
 Backwater = 1.45 ft.  
 Avg. Bridge Velocity = 4.77 fps



**Hydraulic Design**

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.

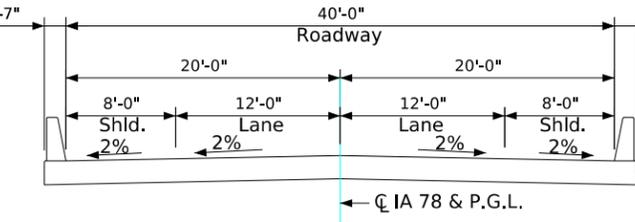
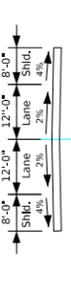
Signature: **Jimmy D. Ellis** (Professional Engineer License No. 15557)  
 Date: XX-XX-XXXX  
 My license renewal date is December 31, 2026

Pages or sheets covered by this seal: V.1, V.2

**Traffic Estimate**

2028 AADT	1200	V.P.D.
2048 AADT	1500	V.P.D.
20?? DHV	???	V.P.H.
TRUCKS	7 %	
Total Design ESALS	???	

**Typical Approach Section**



Typical Deck Section

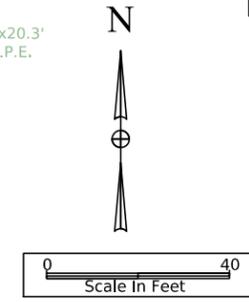
**Utilities Note:**

Utilities shown on this sheet are for information only. See Road Design sheets for utility information.

**General Utility Symbols:**

- E - Electric Line
- G - Gas Line
- SAN. - Sanitary Sewer
- T - Telephone Line
- W - Water Line
- FO - Fiber Optic Line
- GHP - Gas High Pressure
- ST S - Storm Sewer
- TV - TV
- Power Poles

**Situation Plan**



Design For 0 Degree Skew  
**120'-0" x 40'-0" Continuous Concrete Slab Bridge**  
 36'-6" End Spans      47'-0" Interior Span  
**TSL Situation Plan**  
 STA. 191+91.80 (IA 078)      Turn-In Date: Nov 2025  
**Henry County**  
 IOWA DEPARTMENT OF TRANSPORTATION  
 Design No. 0228      Design Sheet No. 1 of 2      FHWA/Asset 28571

Control Point: 301 N. 6516731.57 E. 24438439.05 Elev. 705.07 CP From the intersection of Hwy 78 and Nashua Ave process West 1820 feet and North 64 feet of CL to found 5/8" by 42" rebar 4" below ground

### Berm Slope Location Table

Points	West Abutment			East Abutment		
	Station	Offset	Elev.	Station	Offset	Elev.
A1	191+43.700	24.583 Lt.	677.30	192+36.600	24.583 Rt.	677.30
A2	191+43.700	24.583 Rt.	677.30	192+36.600	24.583 Lt.	677.30
B1	191+36.30	24.583 Lt.	680.271	192+47.30	24.583 Lt.	681.586
B2	191+36.30	24.583 Rt.	680.271	192+47.30	24.583 Rt.	681.586
W1	191+26.30	24.583 Lt.	683.816	192+57.30	24.583 Lt.	685.253
W2	191+26.30	24.583 Rt.	683.816	192+57.30	24.583 Rt.	685.253

Berm slope elevations reflect the grading surface. All point are 3' offset from the edge deck. Offsets are from C of IA 78.

### Estimated Berm Armoring Quantities

Location	Revetment CL. E (Ton)	Erosion Stone (Ton)	Engineering Fabric (SY)	CL. 10 Excavation (CY)
Berm Lining - West	329		248	219
Berm Lining - East	345		305	230
Channel Sides Lining	354		302	236
Totals	1028		855	685

Excavation quantity calculated from grading surface. Excavation quantity if for embedded revetment core out only, and does not include excavation to the grading surface. Excavation quantity to the grading surface is determined by Road Design and included in the Road Plans.

### General Notes

This design is to replace the existing 24'x30' concrete slab bridge FHWA No. 028570, Maint No. 444105S078 Work under this design shall include removal of the existing super, substructure units and ABM.

### TSL Design Notes (To be removed by final design engineer)

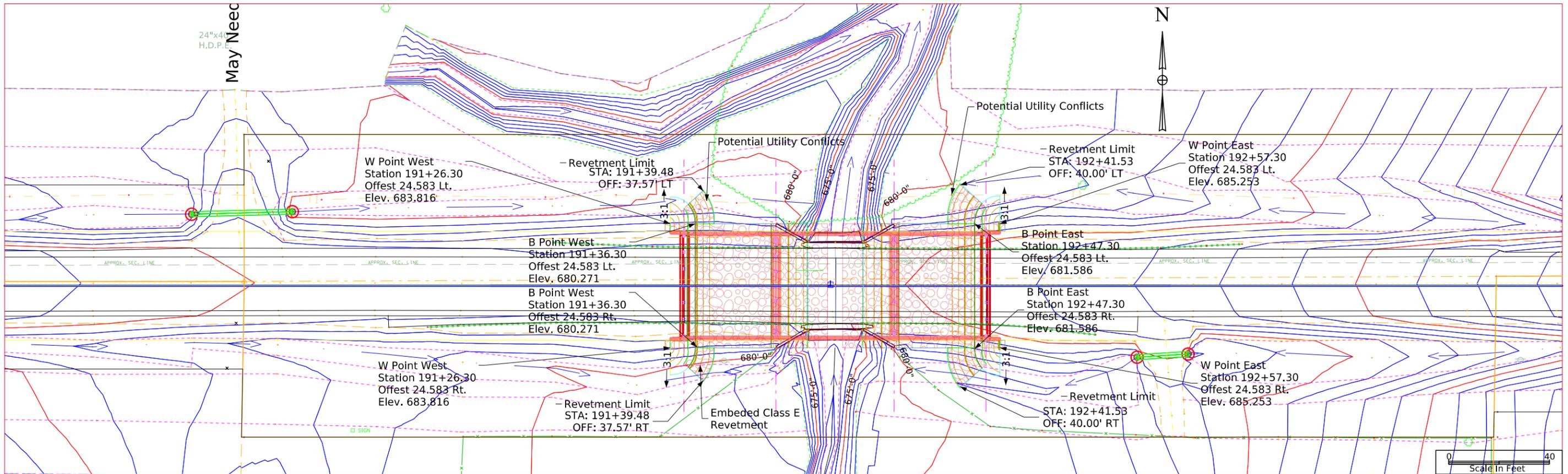
Standard Bridge index No. J40 -12-25  
 Custom Abutment IA DOT CCS Abut R10 proposed  
 Pile Bent Cap (3'Width, 1'Height) With 7 Piles (30' Length) Proposed  
 TL-4 Bridge Barrier Proposed  
 1.25 Swelling Factor Used for Class 10 Excavation  
 1.5 Ton/CY Density Used for Class E Revetment and Erosion Stone + 10%

### Plan Notes

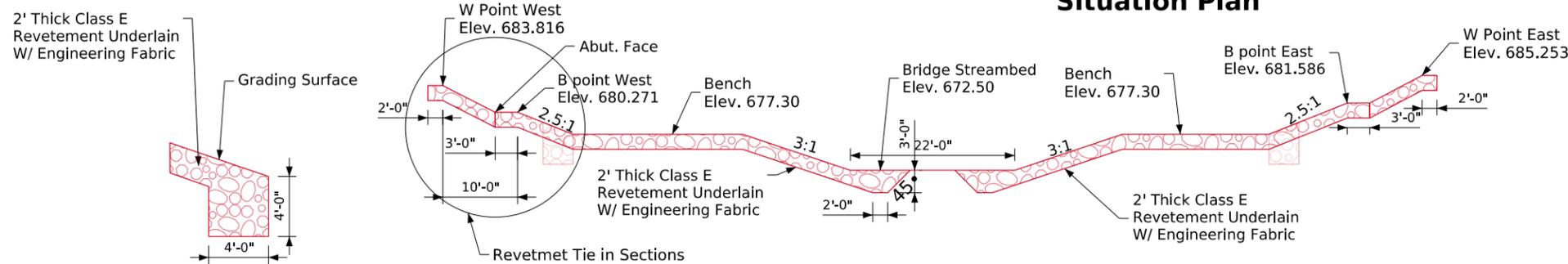
Top of the slab at C of roadway is 0.03' below the profile grade to account for parabolic crown for the deck  
 2' Thick layer of Class E Revetment is embedded and underlain with engineer fabric  
 Coordinate with District 5 for the potential Utility Conflicts

### Design Notes

The bridge does not meet Iowa DOT's desired freeboard (Positive for event of 100 year) per BDM3.2.2.4  
 The bridge will be designed to withstand the applicable effects of ice and the horizontal stream loads and uplift forces associated with the Q100 (BDM 3.2.2.4)

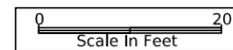


### Situation Plan



### Embedded Revetment Detail Offest 24.583 from C of IA 78

### Typical Key-In Revetment Section



Design For 0 Degree Skew  
**120'-0" x 40'-0" Continuous Concrete Slab Bridge**  
 36'-6" End Spans 47'-0" Interior Span  
**Situation Site Plan**  
 STA. 191+91.80 (IA 078) Turn-In Date: Nov 2025  
**Henry County**  
 IOWA DEPARTMENT OF TRANSPORTATION  
 Design No. 0228 Design Sheet No. 2 of 2 FHWA No. 28571

## CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature	Design Color No.	Feature
<b>Aggregate</b>			
(64)	Choke Stone	(8)	Behind Curb Cut
(42)	Engineering Fabric	(6)	Granular
(8)	Flooded Backfill	(13)	Granular Back Fill
(92)	Macadam Stone	(48)	Rock Undercut
(20)	Modified	(8)	Shoulder Earth Fill
(12)	Plowing Shaping	(2)	Side Slopes
(14)	Porous Backfill	(226)	Side Slopes Dressing
<b>Grading</b>			
(8)	Revetment Class A	(128)	Boulder
(6)	Revetment Class B	(209)	Boulder Removed
(62)	Revetment Class C	(48)	Broken Weathered
(188)	Revetment Class D	(210)	Broken Weathered Removed
(28)	Revetment Class E	(3)	Core Out
(12)	Shoulder Special Backfill	(115)	Core Out Remove Only
(12)	Special Backfill	(195)	Core Out Remove and Replace
(20)	Subbase	(203)	Existing Pavement
(20)	Subbase Lower	(184)	Existing Pavement Remove Only
(20)	Subbase Upper	(200)	Existing Pavement Remove and Replace
(118)	Subgrade Treatment	(6)	Loam
<b>Substrata</b>			
(207)	HMA Base Course	(211)	Loam Removed
(207)	HMA Interim Course	(80)	Rock
(207)	HMA Surface Course	(212)	Rock Removed
(0)	Bridge	(4)	Select Sand
(0)	Barrier Concrete	(214)	Select Sand Removed
(0)	Barrier Concrete Footing	(3)	Shale
(0)	Curb Gutter	(215)	Shale Removed
(48)	Flowable Mortar	(10)	Topsoil
(0)	Median Concrete	(2)	Topsoil Remove Only
(0)	PCC Pavement	(4)	Topsoil Remove and Replace
(0)	Sidewalk	<b>Unsuitable / Waste</b>	
(0)	Existing Pavement	(3)	Unsuitable Type A
(209)	Shoulder HMA	(216)	Unsuitable Type A Removed
(0)	Shoulder PCC	(13)	Unsuitable Type B
(6)	Shoulder Granular	(217)	Unsuitable Type B Removed
(112)	Noise Wall	(11)	Unsuitable Type C
(112)	Noise Wall Footing	(218)	Unsuitable Type C Removed
(112)	Retaining Wall Back	(3)	Waste
(112)	Retaining Wall Back Excavate	(219)	Waste Removed
(112)	Retaining Wall Face		
(112)	Retaining Wall Front Excavate		
(112)	Retaining Wall Front Footing		
(112)	Retaining Wall MSE Gutter		
(112)	Retaining Wall Reinforced Earth		
<b>Concrete</b>			
<b>Asphalt</b>			
<b>Bridge</b>			
<b>Shoulder</b>			
<b>Structural</b>			

**NOTES:**

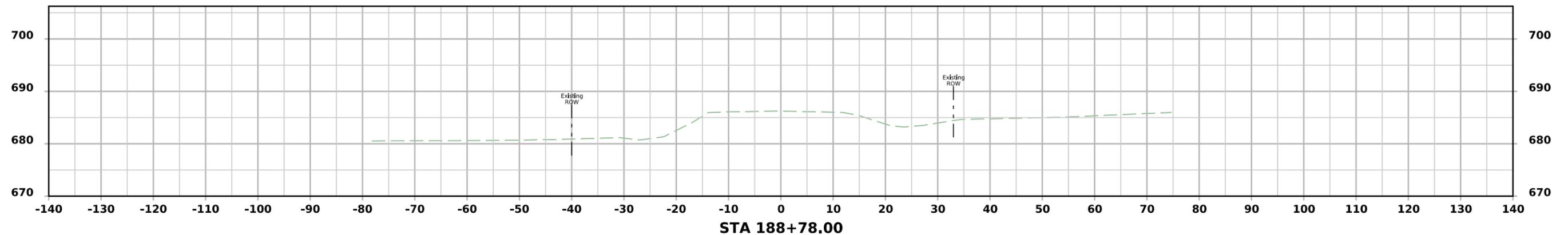
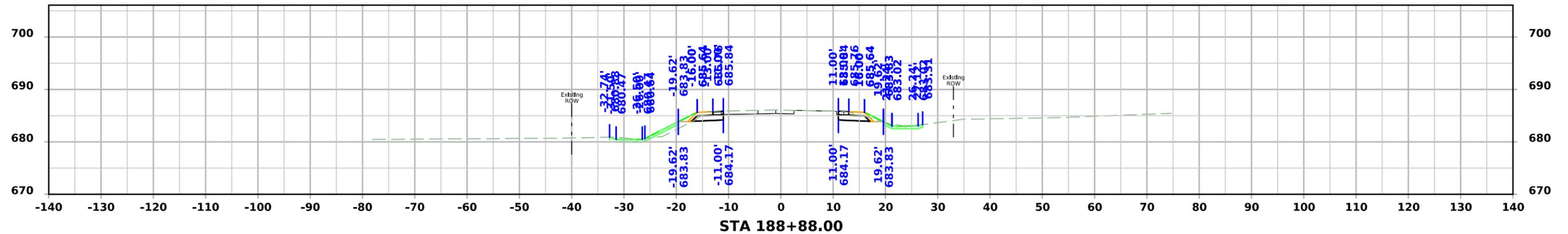
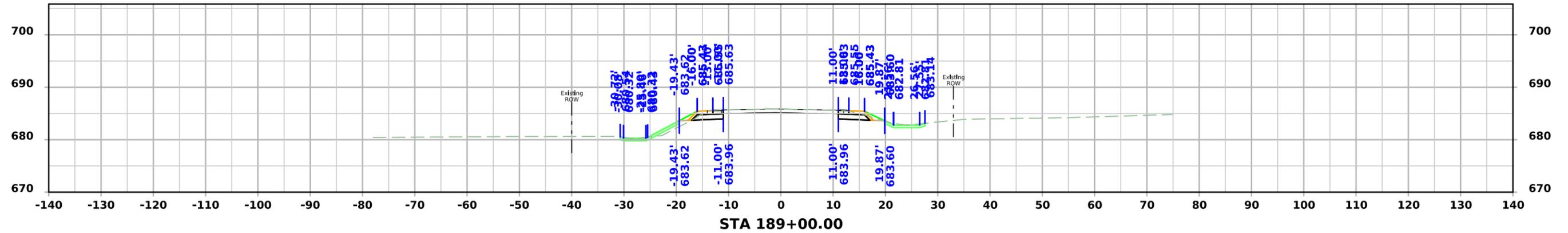
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**NOTES:**

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## CROSS SECTIONS LEGEND AND INFORMATION SHEET

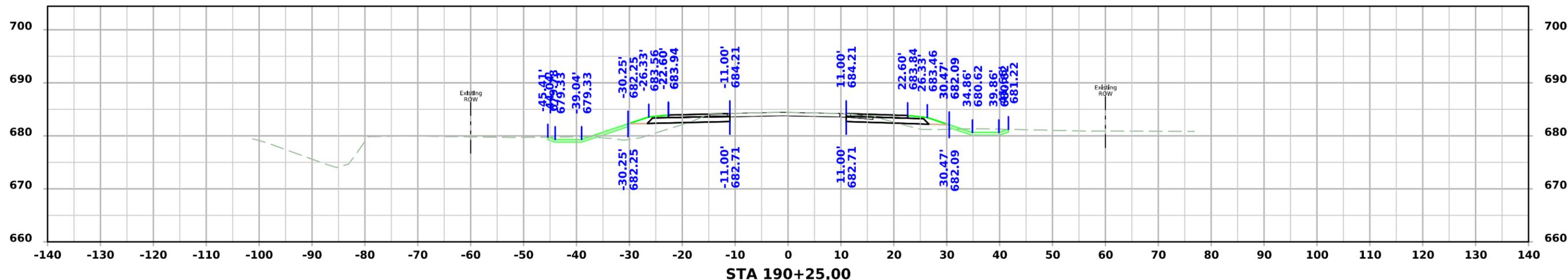
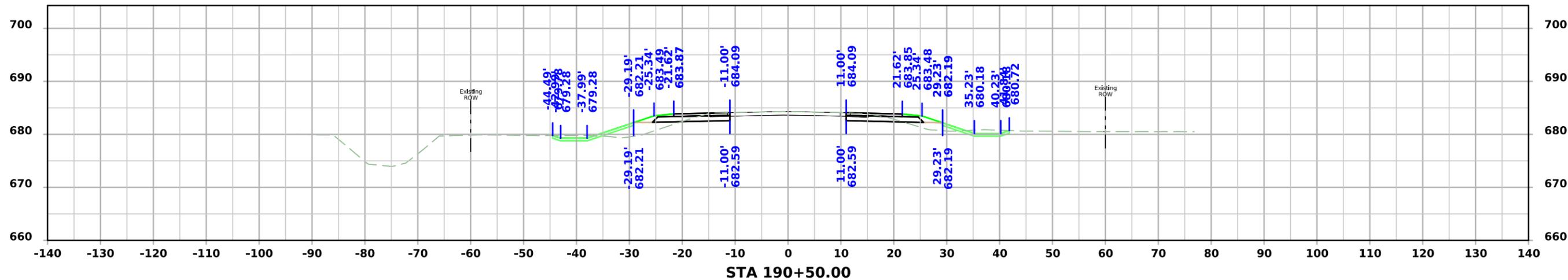
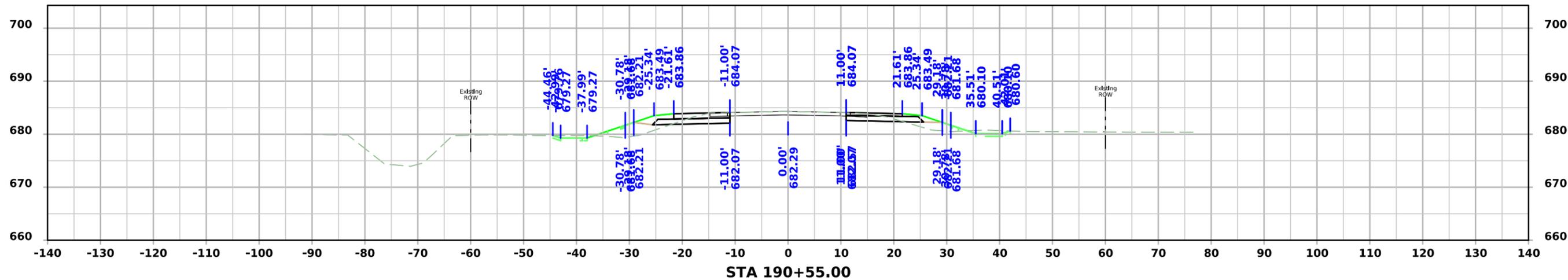
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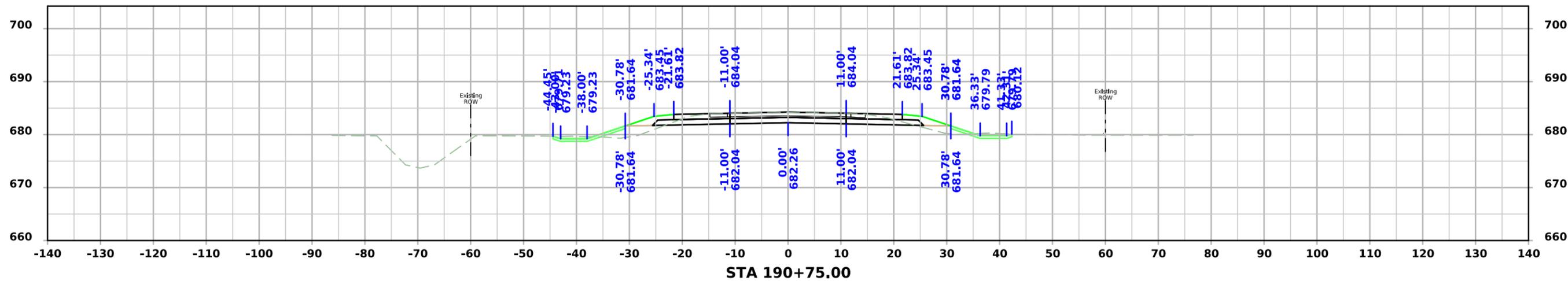
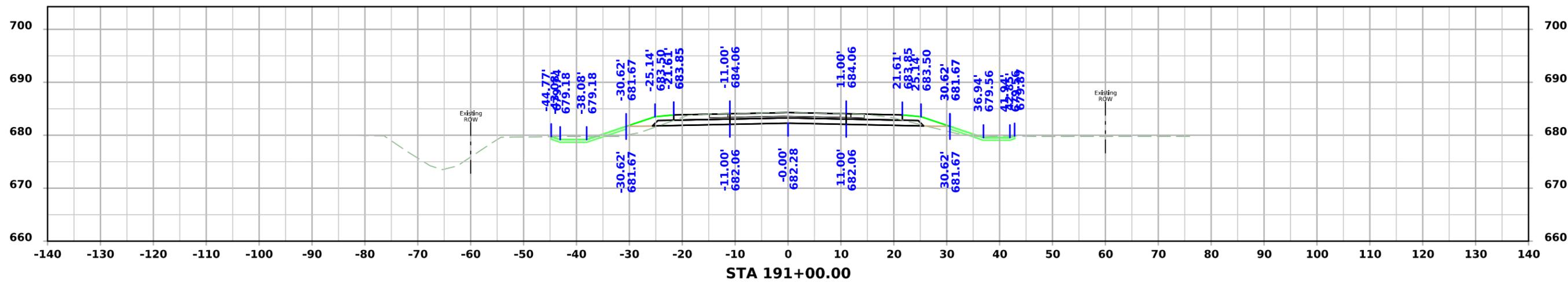
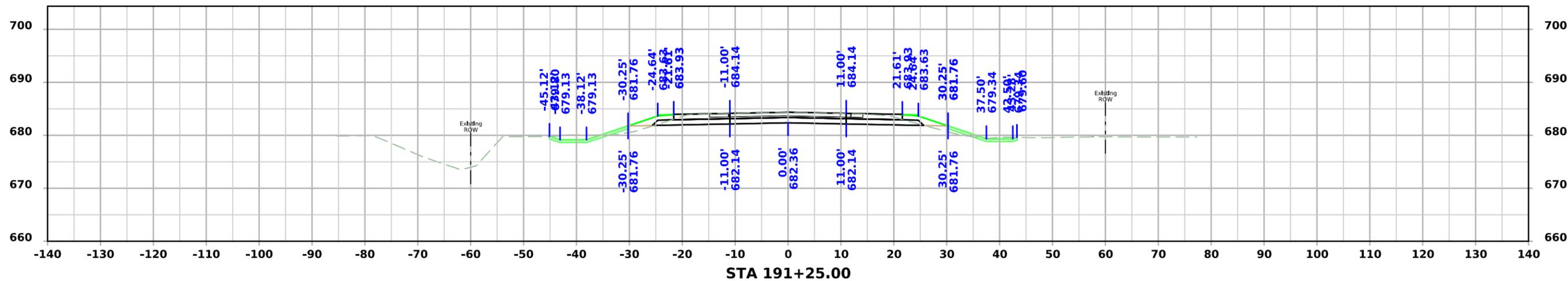




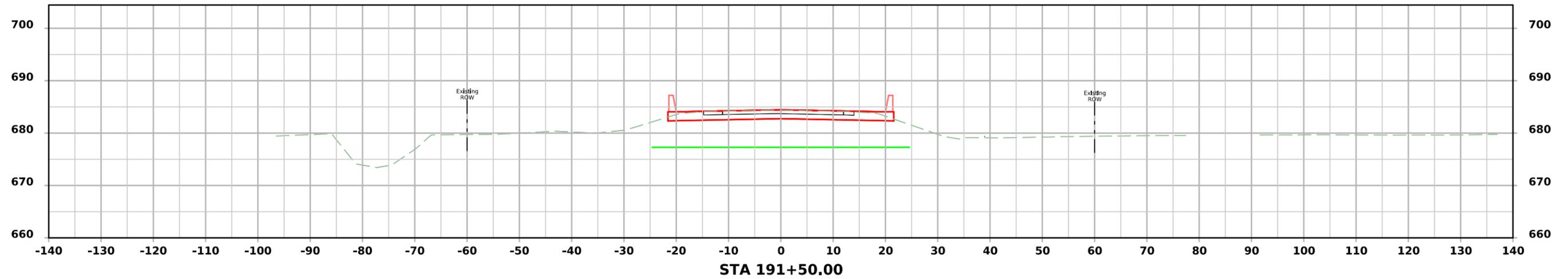
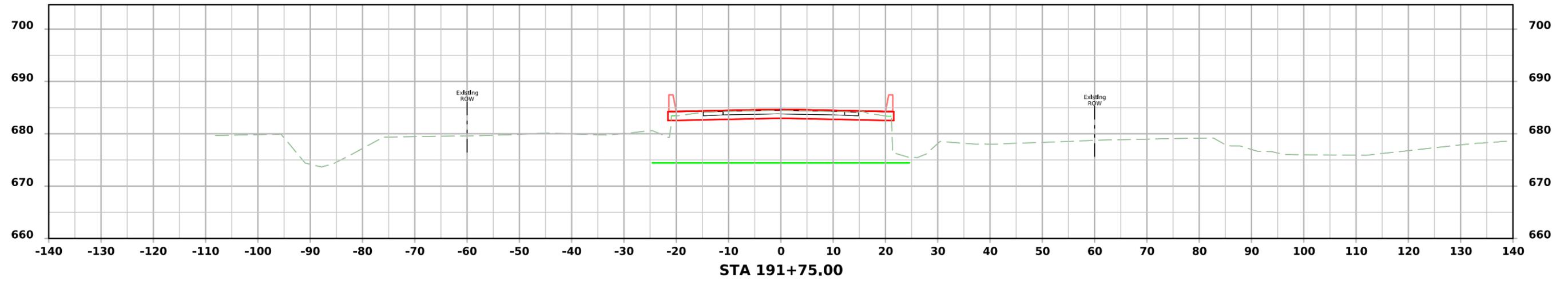
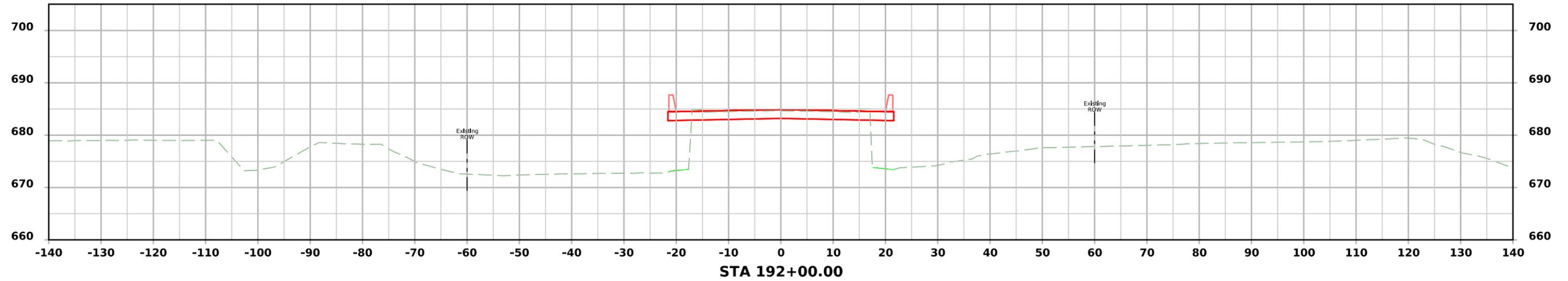


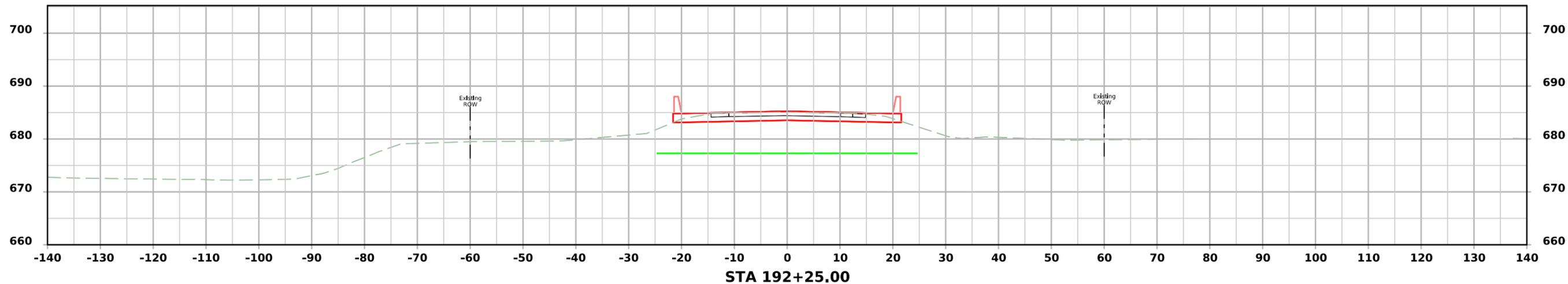
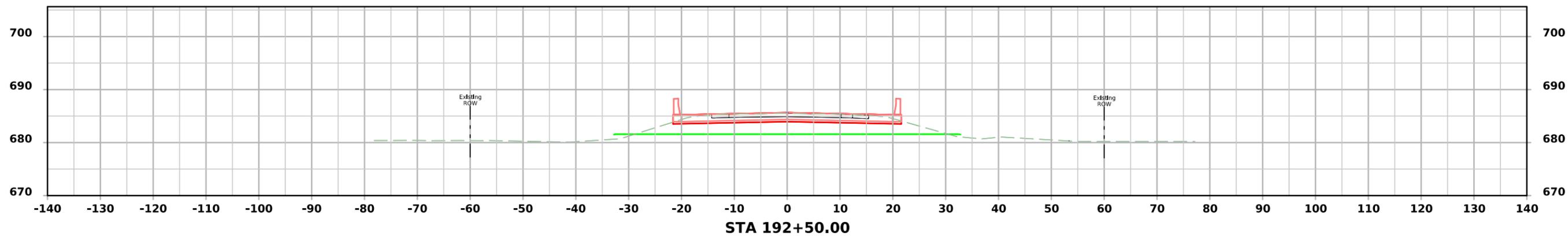
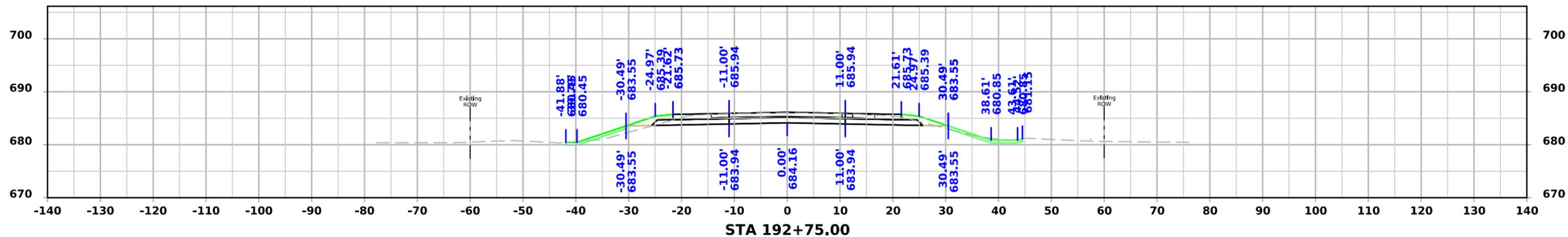
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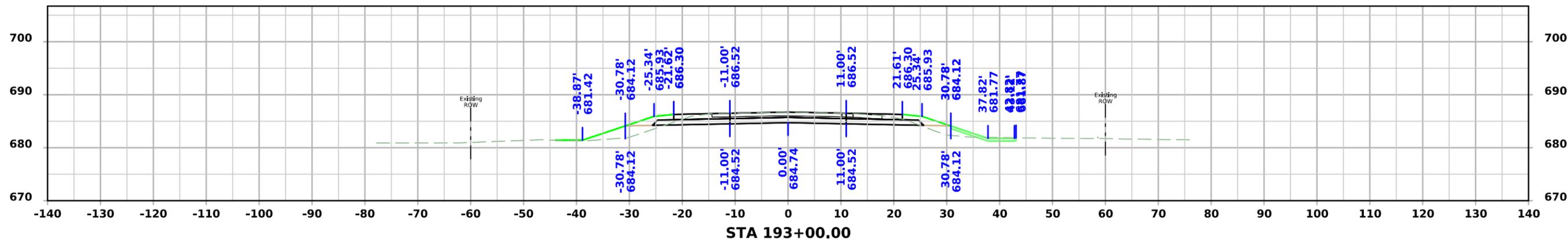
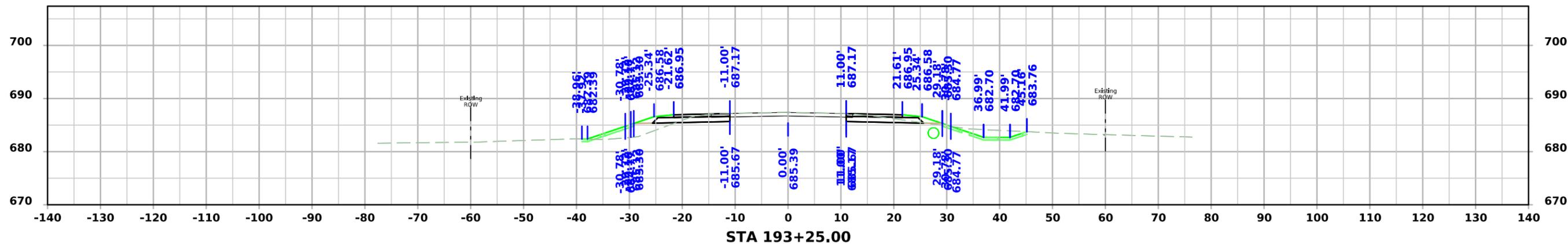
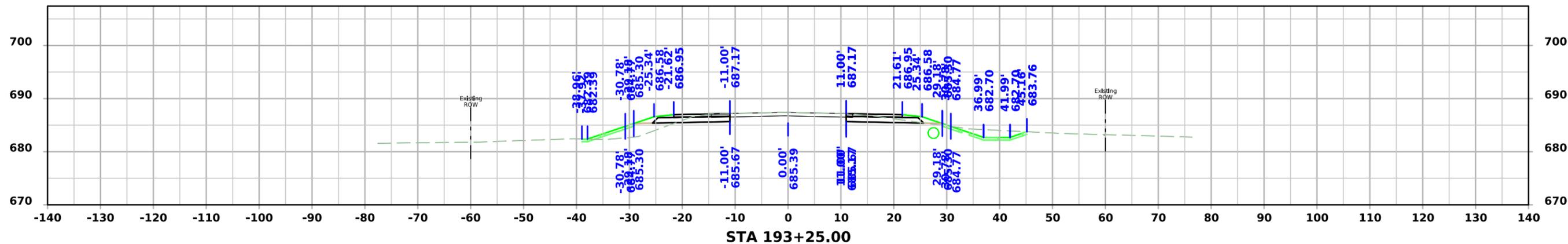


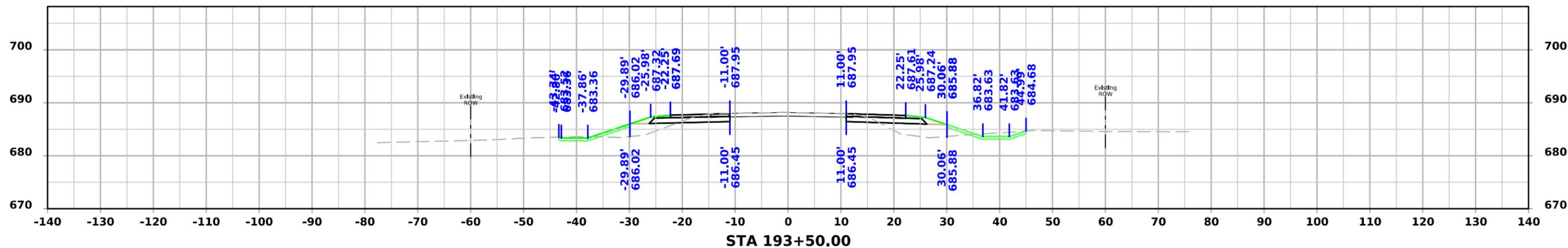
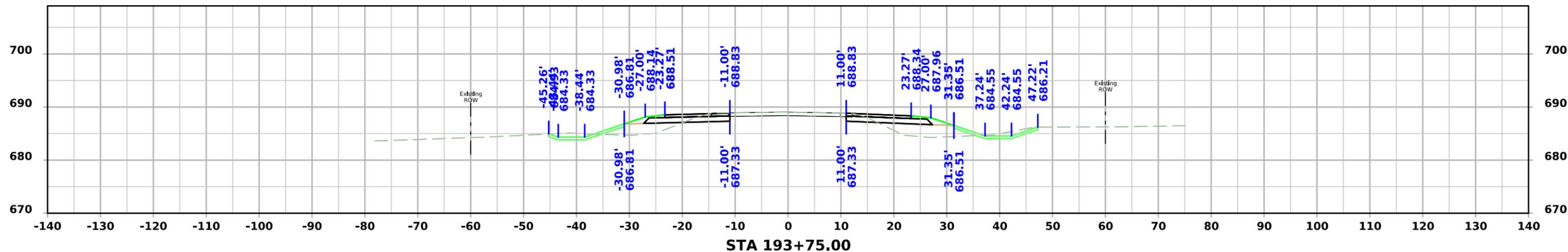
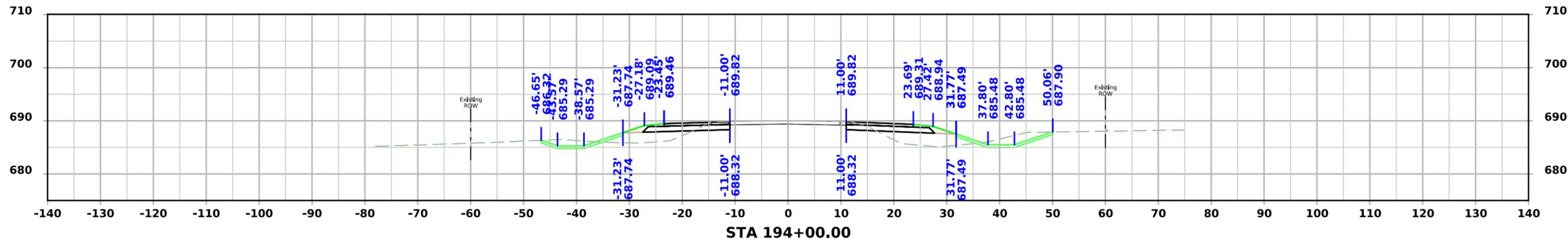


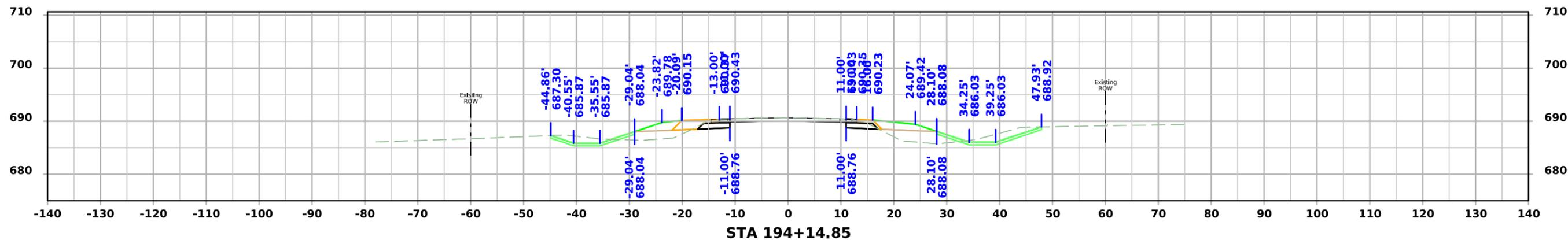
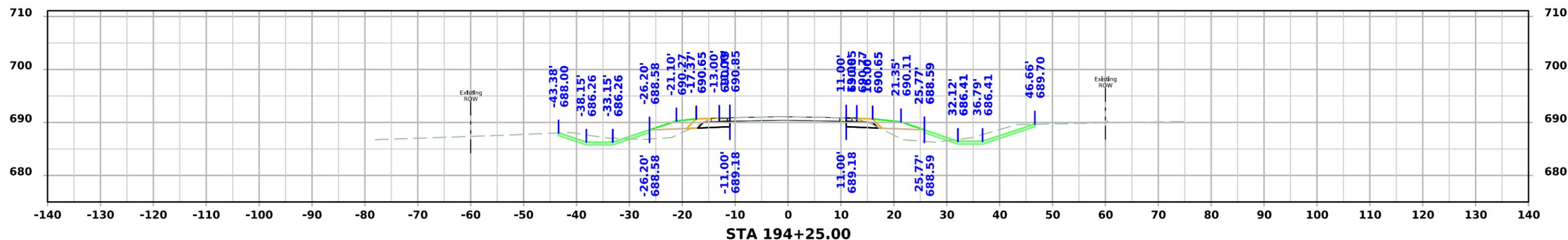
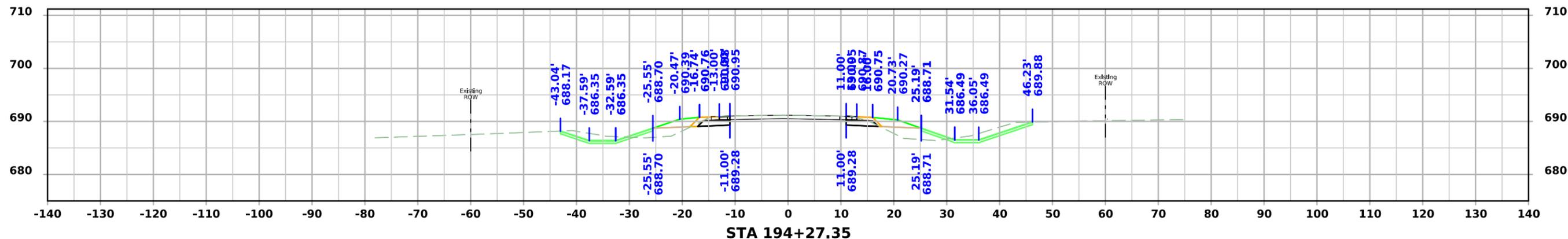
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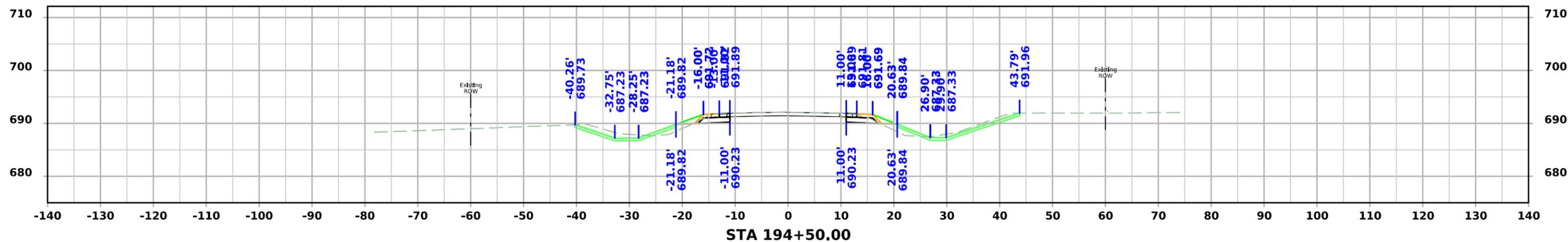
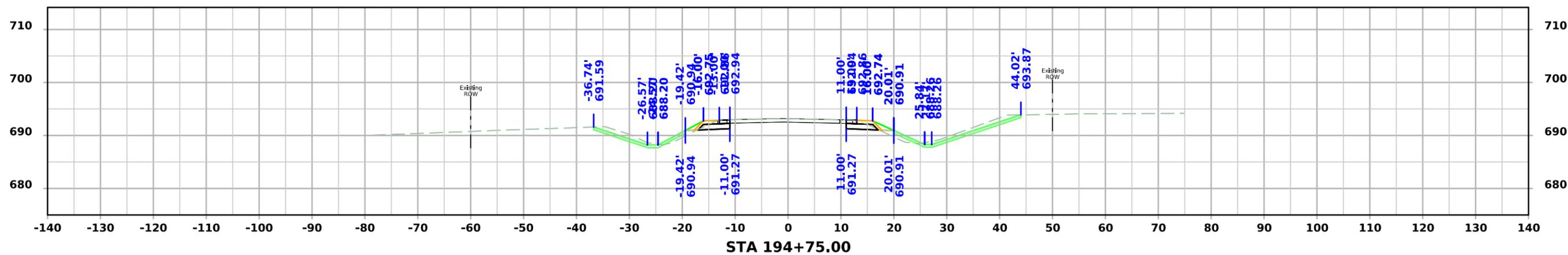
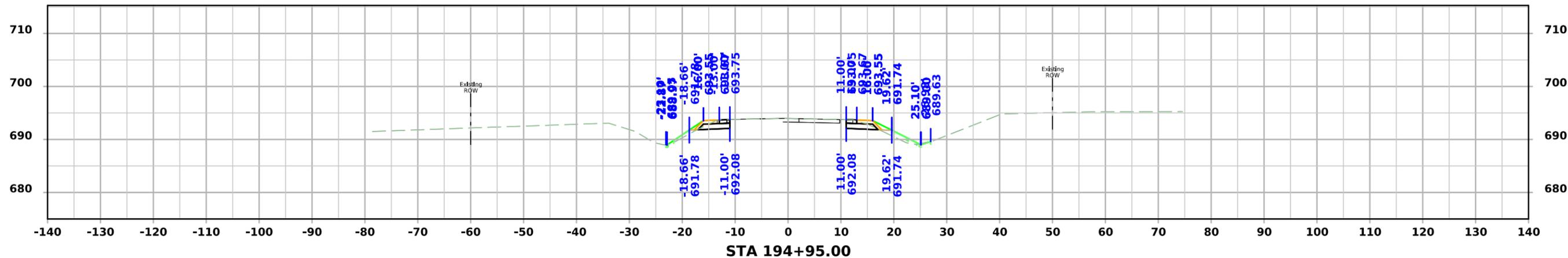












# IA 78 Entrances

