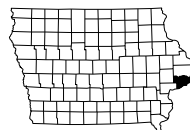


SCOTT COUNTY

BRIDGE REPLACEMENT - CCS
BRFN-461-1(13)--38-82

LETTING DATE
12-17-2024



INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
* A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	SB IA 461
E Sheets	Sideroad Plan and Profile Sheets
* E.1	Duck Creek Parkway Trail
G Sheets	Survey Sheets
G.1	Reference Ties and Bench Marks
G.2 - 3	Horizontal Control
G.4	Alignment Coordinates
G.5	Spiral Circular Curve Data
H Sheets	Right-of-Way Sheets
* H.1	SB IA 461
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan and Staging Notes
* J.2	Traffic Control & Staging Legend & Symbol Info. Sheet
* J.3	Staging Typical
* J.4 - 7	Staging and Traffic Control Sheets - Stage 1
* J.8 - 11	Staging and Traffic Control Sheets - Stage 2
U Sheets	500 Series, Mod. Stds. and Detail Sheets
* U.1 - 5	Modified Standards
V Sheets	Bridge Situation Plans
* V.1 - 4	SB IA 461 Bridge Situation Plan
X Sheets	Side Road Cross Sections
* X.1 - 5	Duck Creek Parkway Trail Cross Sections
	* Color Plan Sheets



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
SCOTT COUNTY
BRIDGE REPLACEMENT - CCS

Duck Creek 0.3 mi S of US 6 in Davenport (SB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



DESIGN DATA URBAN

2025	AADT	20,800	V.P.D.
2045	AADT	23,600	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		1	%
Total			
Design	ESALs	--	

For Project Location Map
Refer to Sheet No. A.2

REVISIONS

TOTAL

PROJECT IDENTIFICATION NUMBER

19-82-461-040

PROJECT NUMBER

BRF-461-1(13)--38-82

R.O.W. PROJECT NUMBER

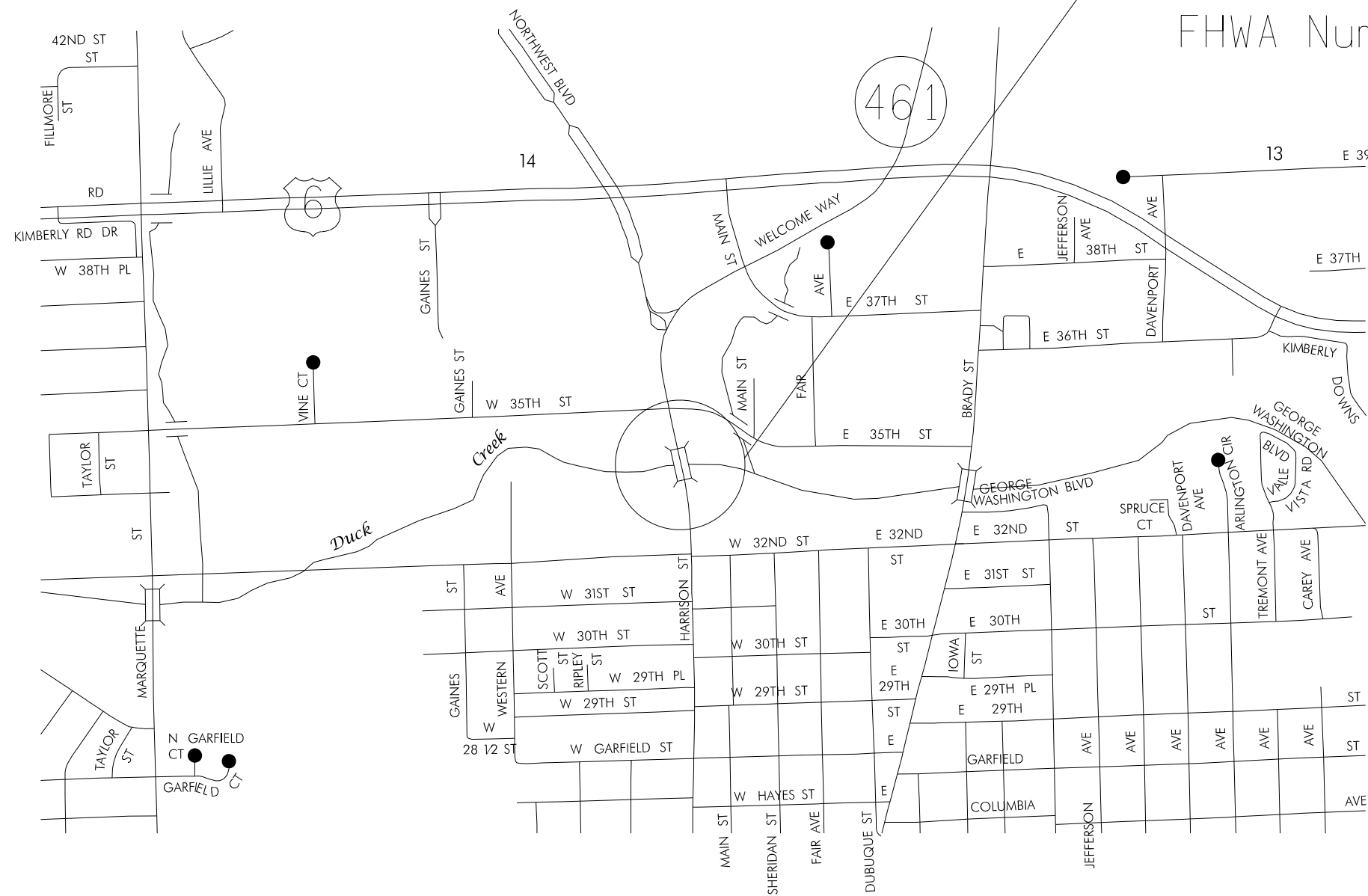
NHSN-461-1(14)--2R-82

PRELIMINARY PLANS

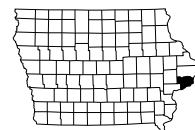
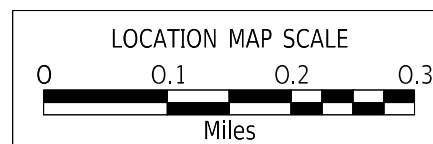
Subject to change by final design.

D5 PLAN - Date: 12-9-22

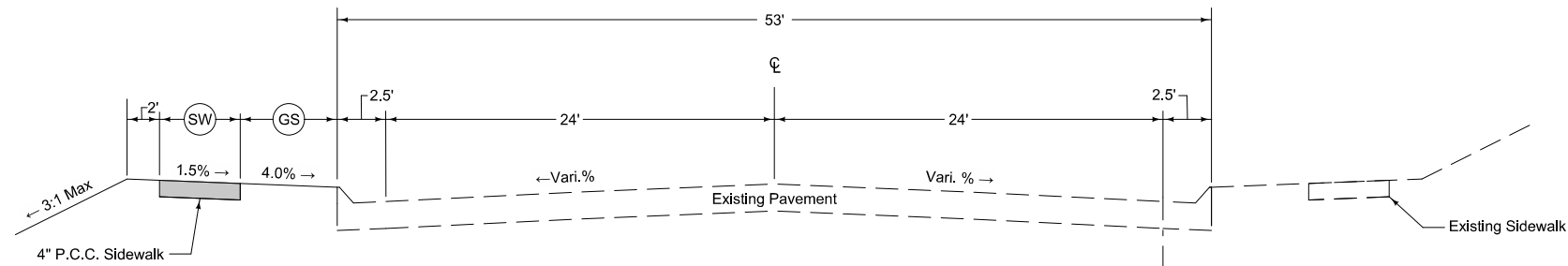
STA. 36+40.15
 Project Location
 Maint. Number: 8220.1L061
 FHWA Number 47211



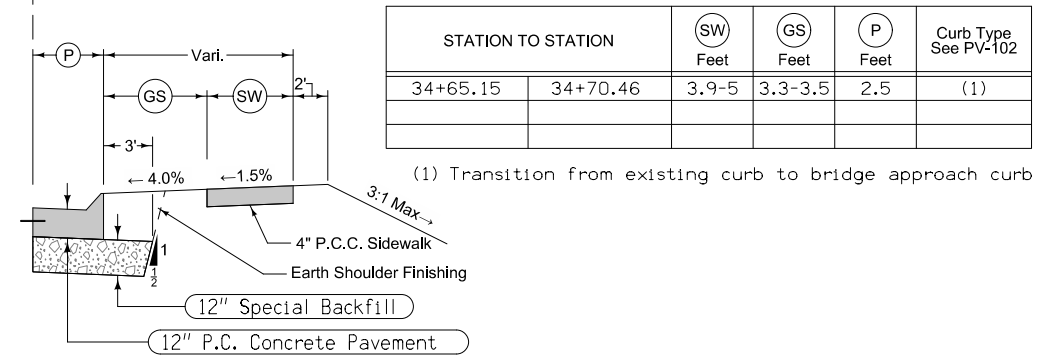
CITY OF DAVENPORT



STATION TO STATION		SW Feet	GS Feet
34+44.37	34+70.46	3.8-5	3.5
38+09.84	38+25.00	5	3.4-5
38+25.00	39+75.76	5	5

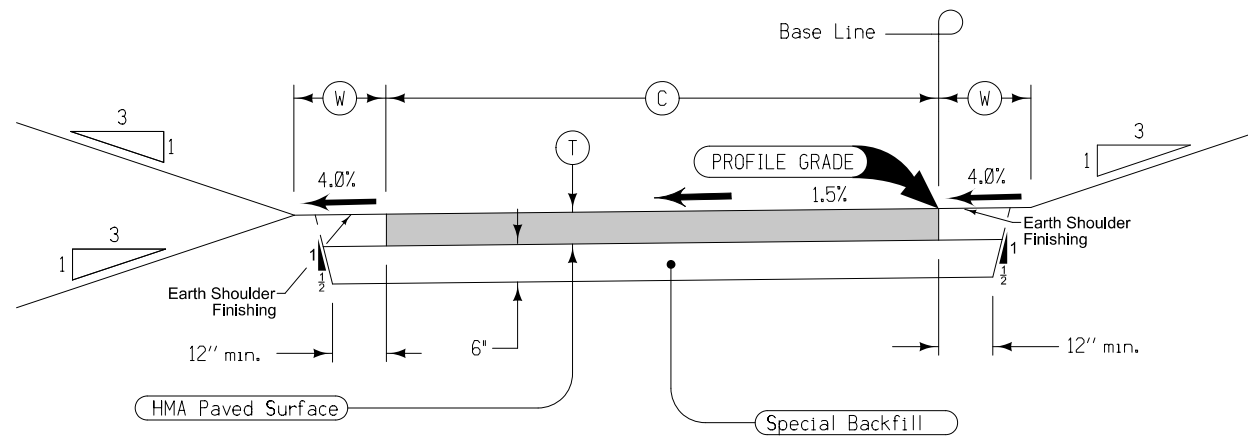


SB IA 461 (N HARRISON ST)



STATION TO STATION		SW Feet	GS Feet	P Feet	Curb Type See PV-102
34+65.15	34+70.46	3.9-5	3.3-3.5	2.5	(1)

(1) Transition from existing curb to bridge approach curb

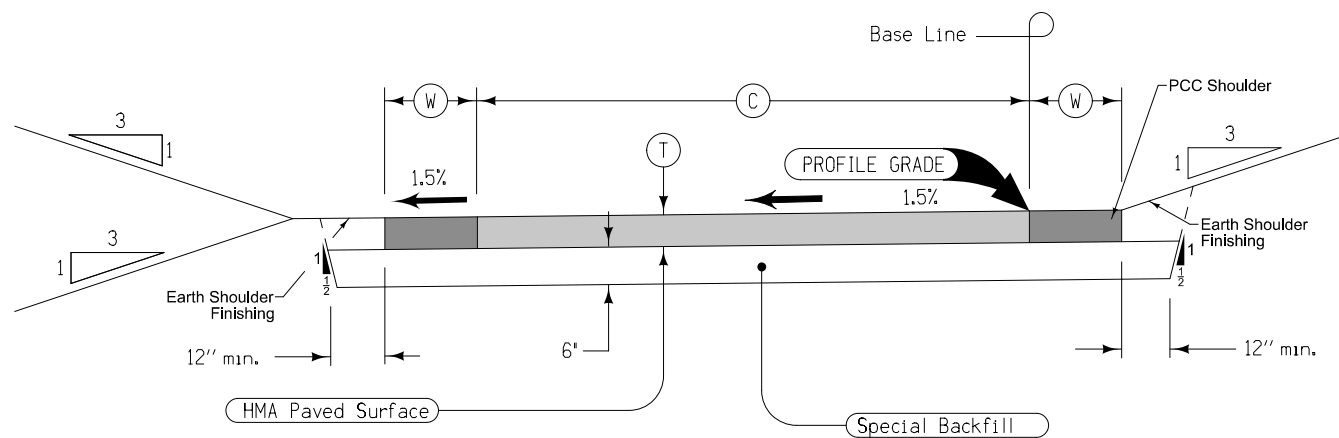


STATION TO STATION		PAVEMENT TYPE	C Feet	T Inches	W TURF SHLDR
					Left Right
10+30.00	11+05.00	HMA	10	6	3' 3'
11+90.00	12+65.00	HMA	10	6	3' 3'

TYPICAL CROSS SECTION
DUCK CREEK PKWY TRAIL

7402
MODIFIED

Notes:
Bid Item is "Recreational Trail".



STATION TO STATION		PAVEMENT TYPE	C Feet	T Inches	W PCC SHLDR
					Left Right
11+05.00	11+90.00	HMA	10	6	3' 3'

TYPICAL CROSS SECTION
DUCK CREEK PKWY TRAIL

7402
MODIFIED

Notes:
Bid Item is "Recreational Trail".

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
- Traffic Signal Control Box
- Rail Road Signal Control Box
- Telephone Switch Box
- Electric Box

UTILITY LEGEND

- FO** Iowa Communications Network
Mike Broderick
400 E 14th Street
Des Moines, IA 50319
(515) 725-4610
mike.broderick@iowa.gov
- FO** Unite Private Networks
Clark Lundy
2320 Wakonda View Dr.
Des Moines, IA 50321
(515) 321-3336
clark.lundy@upnfiber.com
- FO** Fiber Optic, Centurylink
Telephone, Centurylink
Brent Giese
3908 Ulca Ridge Road
Bettendorf, IA 52722
(563) 355-2592
Brent.Giese@lumen.com
- FO** Steve Parker
2103 E. University Avenue
Des Moines, IA 50317
(515) 265-0968
Steven.Parker4@lumen.com
- ST S** Storm Sewer, Davenport
- SAN** Sanitary Sewer, Davenport
- FO** Fiber Optic, Davenport
Brian Schadt
1200 East 46th Street
Davenport, IA 52807
(563) 326-7923
bschadt@ci.davenport.ia.us
- W** Iowa American Water Company
Monica De La Paz
5201 Grand Avenue
Davenport, IA 52807
(563) 605-7526
monica.delapaz@amwater.com
- TV** Mediacom Communication Corporation
Mitch Hancock
3900 26th Avenue
Moline, IL 61265
(309) 743-4735
mhancock@mediacomcc.com
- E1** MidAmerican Energy Company
Nick Benhart
5955 Fenno Rd.
Bettendorf, IA 52722
(563) 333-8718
NCBenhart@midamerican.com
- G** MidAmerican Energy Company
Paul Swanson
2811 5th Avenue
Rock Island, IL 61201
(309) 793-3760
pcswanson@midamerican.com
- FO** Fiber Optic, Metro Fibernet, LLC
Lori Kemper
3701 Communications Way
Evansville, IN 47715
(812) 213-1050
rrhwypemits@metronet.com

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

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

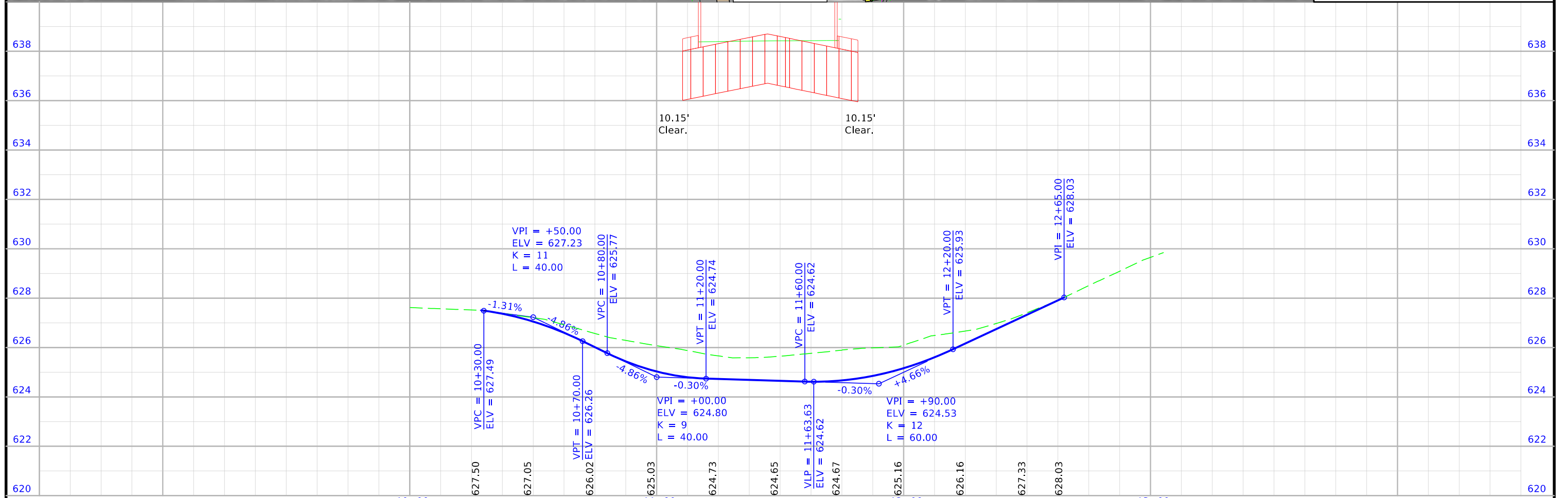
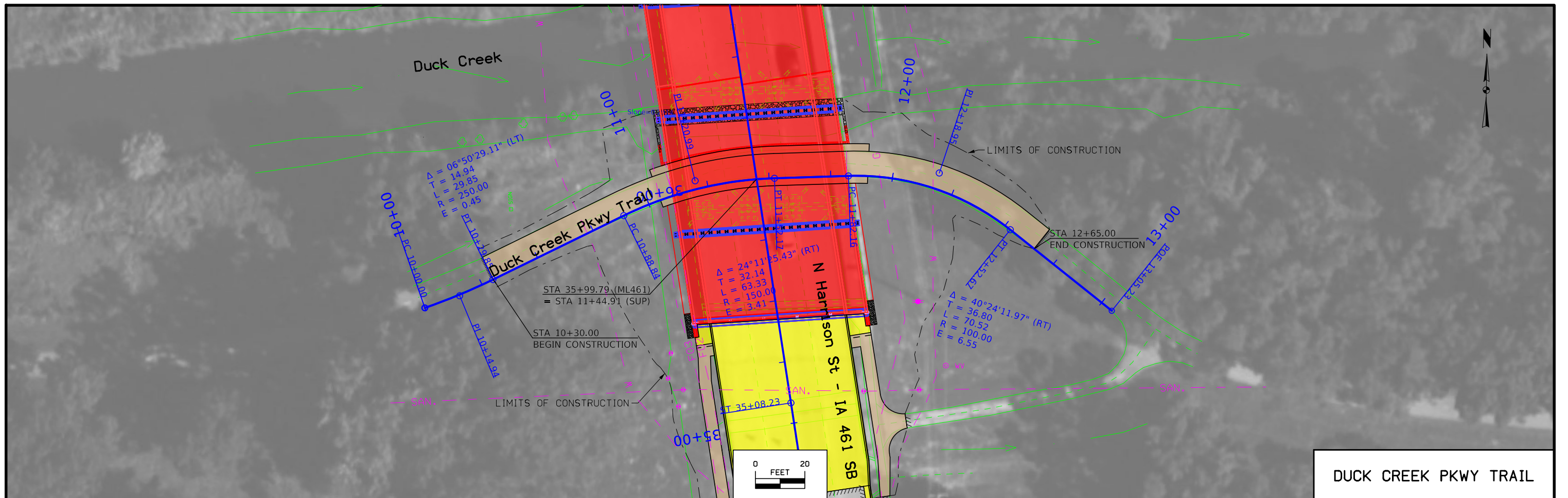
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

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
- Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D & E)



Survey Information

SURVEY INDEX

County: Scott

PIN: 19-82-461-040

Project Number: BFR-461-1(13)—38-82

Location: IA 461 Bridge over Duck Creek/Bike Path, 0.3 miles south of
US 6 in Davenport (SB)

Type of Work: Bridge Replacement

Project Directory: 8246104019

Survey Personnel

Nels Sutherland – Survey Party Chief

Myron Fox – Survey Party Chief

Date(s) of Survey

Begin Date 03/13/2022

End Date 04/12/2022

General Information

Measurement units for this survey are US survey feet. This survey is for the southbound IA 461 bridge replacement over Duck Creek/Bike Path. This project is a Full DTM survey.

Project Control

Control Points from a previous project, No. BRF-461-1(9)—38-82, were utilized for horizontal and vertical control. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) EPOCH 2010.00

VERTICAL DATUM: NAVD88

COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 11

GEOID MODEL: 2012bu3

Alignments Information

The alignment created for this project is “Best Fit”. No reference monumentation was found. The centerline of roadway was used for the back and ahead tangent lines. Referenced As-built plan set UN 130-1(4)—41-82 for centerline geometry and stationing. Held bridge centerline Sta. 36+36.00 running back and ahead without equation.

Survey stationing relates to As-built plan stationing as follows:

PI Sta. 30+00.00 Plan
= Survey PI Sta. 30+00.72

TS Sta. 30+88.31 Plan
= Survey TS Sta. 30+89.03

SC Sta. 32+32.31 Plan
= Survey SC Sta. 32+33.03

CS Sta. 33+63.31 Plan
= Survey CS Sta. 33+64.03

ST Sta. 35+07.31 Plan
= Survey ST Sta. 35+08.03

Bridge CL Sta. 36+36.00 Plan (Held)
= Survey Bridge CL Sta. 36+36.00

Utility Information

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

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 - Ia. RCS Zone 11
VERT. DATUM: NAVD88 - Geoid Model g2012bu3

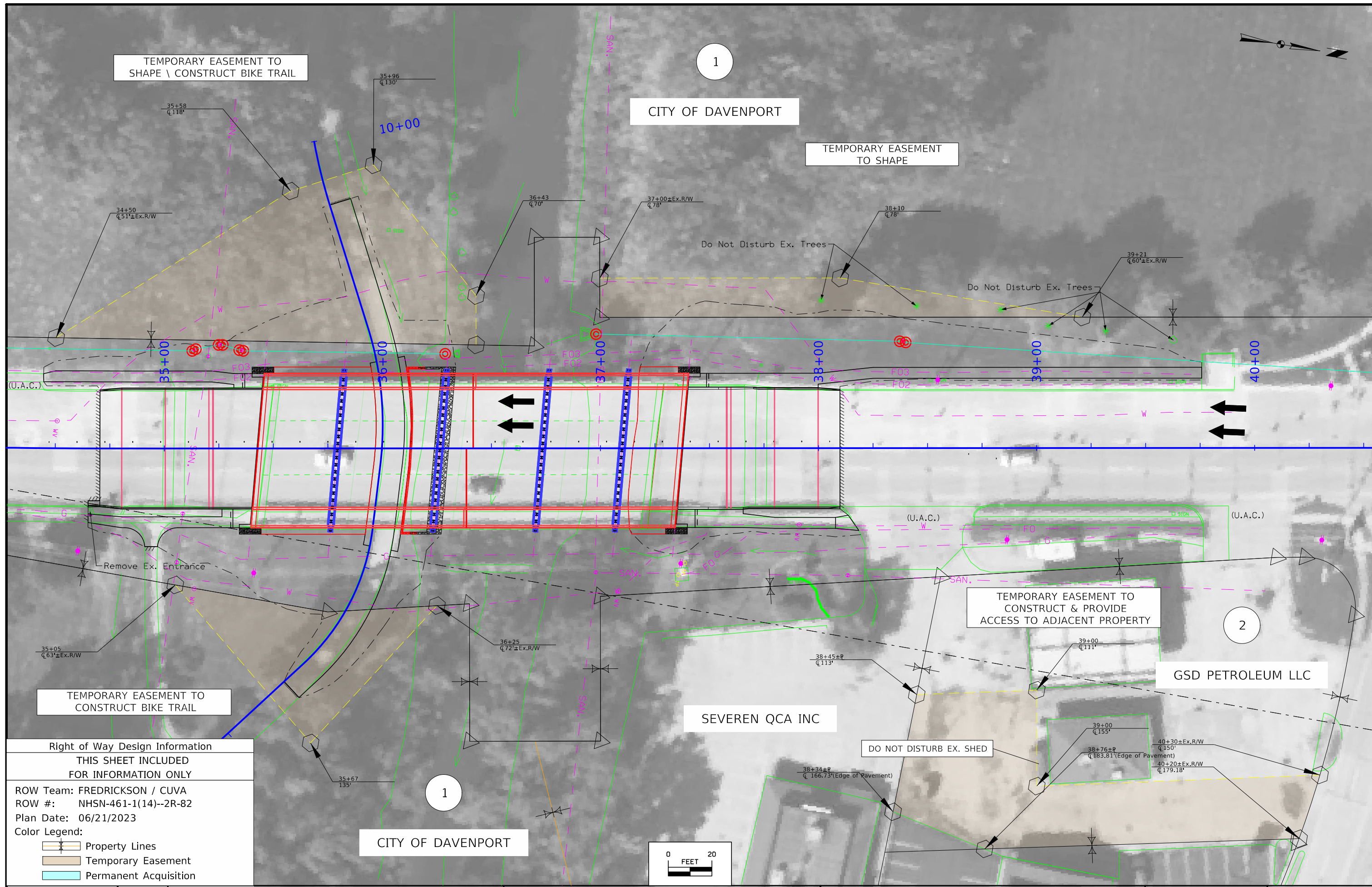
Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00
 1a. Regional Coordinate System Zone 11

VERT. DATUM: NAVD88
 Geoid Model g2012bu3
 Project Control Marks are Bench Marks

Point Name	Northing	Easting	Elevation	Code Description
TP300	8063982.963	21489043.224	584.468	CP MAG NAIL on sidewalk from the intersection of Perry St and E 4th St proceed W 195ft point is 30ft S of the CL of E 4th St
FEN078	8074966.258	21490011.035	625.688	CP IDOT FENO MON from the intersection of E George Washington Blvd and Hwy 461N proceed N 75ft point is W 168ft of the CL of Hwy 461N 4in below surface
D414	8074614.278	21494983.650	635.317	CP CO GPS PT from the intersection of E 33rd St and Eastern Ave proceed S 210ft point is 55ft W of the CL of Eastern Ave 4in below the surface
648	8084840.612	21481722.019	731.464	CP CO GPS PT from the intersection of W 58th St and N Division St proceed N 215ft point is 42ft W of the CL of N Division St 4in below surface
FENO1	8075102.223	21488092.040	635.022	CP IDOT FENO MON from the intersection of Hwy 461S and W 35th St proceed S 640ft point is 49ft W of the CL of Hwy 461S 4in below the surface



TEMPORARY EASEMENT TO SHAPE \ CONSTRUCT BIKE TRAIL

CITY OF DAVENPORT

TEMPORARY EASEMENT TO SHAPE

Do Not Disturb Ex. Trees

Do Not Disturb Ex. Trees

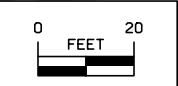
TEMPORARY EASEMENT TO CONSTRUCT & PROVIDE ACCESS TO ADJACENT PROPERTY

GSD PETROLEUM LLC

SEVEREN QCA INC

DO NOT DISTURB EX. SHED

CITY OF DAVENPORT



Right of Way Design Information
 THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: FREDRICKSON / CUVA
 ROW #: NHSN-461-1(14)--2R-82
 Plan Date: 06/21/2023

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

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
IA 461	SB	Scott	0.3 mi S of US 6 in Davenport (SB)	Duck Creek	Barrier	FHWA No. 47210	Horizontal	56'-0"	22'-0"	N/A	54'-0"	

108-23A
08-01-08

TRAFFIC CONTROL PLAN

Maintain two lanes of traffic on SB IA 461 at all times in accordance with J Sheets. Duck Creek Pkwy Trail under the bridge will be closed during construction. The sidewalk on the east side of bridge will be closed during Stage 2. For additional information, refer to Part 6 of the Manual on Uniform Traffic Control Devices and the current Standard Specifications. Refer to Tab. 108-26A for Staging Notes.

108-26A
08-01-08

STAGING NOTES

Stage 1

Traffic: Maintain two lanes of southbound traffic by shifting traffic to the two east lanes in accordance with the J Sheets. All sideroads and entrances are to remain open during Stage 1. Existing sidewalk on the east side of the bridge to remain open. Duck Creek Pkwy Trail under the bridge shall be closed during construction.

Construction: Construct west half of the bridge and approach pavement. Construct west sidewalk and connect to existing sidewalk. Complete other Stage 1 construction.

Stage 2

Traffic: Maintain two lanes of southbound traffic by shifting traffic to the two west lanes in accordance with the J Sheets. Close the two entrances to the gas station and restaurant along SB IA 461. Maintain access to those properties via W 35th Street. All other sideroads and entrances are to remain open. Existing sidewalk on the east side of the bridge and Duck Creek Pkwy Trail under the bridge shall be closed during construction. Sidewalk on the west side constructed in Stage 1 shall be opened.

Construction: Construct east half of the bridge and approach pavement. Construct east sidewalk and reconstruct Duck Creek Pkwy Trail as shown on Sheet E.1. Complete other Stage 2 construction.

Final

Traffic: Open all lanes, sidewalks and Duck Creek Pkwy Trail to traffic.

Construction: Complete final pavement markings.

113-2
04-16-13

PEDESTRIAN PATH CLOSURES
Refer to TC-601.

*Assumes 6 foot wide barricade. Closures may need to be removed and re-established.

Location	Side	Type III Barricades*		Remarks
		No.		
33+75.00	Lt.	1		IA 461 - Stage 1
40+25.00	Lt.	1		IA 461 - Stage 1
33+50.00	Rt.	1		IA 461 - Stage 2
38+80.00	Rt.	1		IA 461 - Stage 2
10+00.00	Lt.	1		Duck Creek Pkwy Trail - Stage 1 and 2
13+00.00	Lt.	1		Duck Creek Pkwy Trail - Stage 1 and 2
Duck Creek Pkwy Trail at Jungle Park	Lt.	1		Duck Creek Pkwy Trail - Stage 1 and 2
Duck Creek Pkwy Trail at Fair Ave	Lt.	1		Duck Creek Pkwy Trail - Stage 1 and 2

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	

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement and Bridge Shading
Gray, Light	(48)	Previously Constructed Pavement and Bridge Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Red	(3)	Proposed Bridge 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, Pinned		Permanent Barrier Rail
	Temporary Barrier Rail, Unpinned		Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINWORK	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

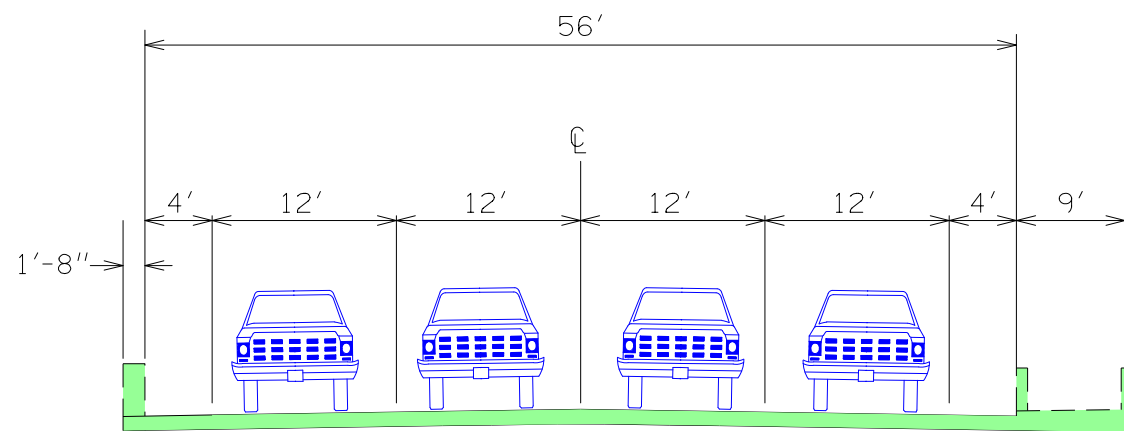
PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	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
	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout		Lane Identification

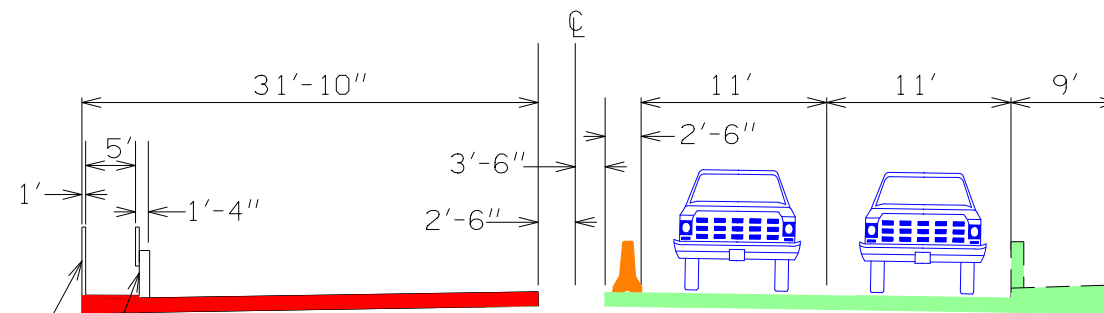
NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)

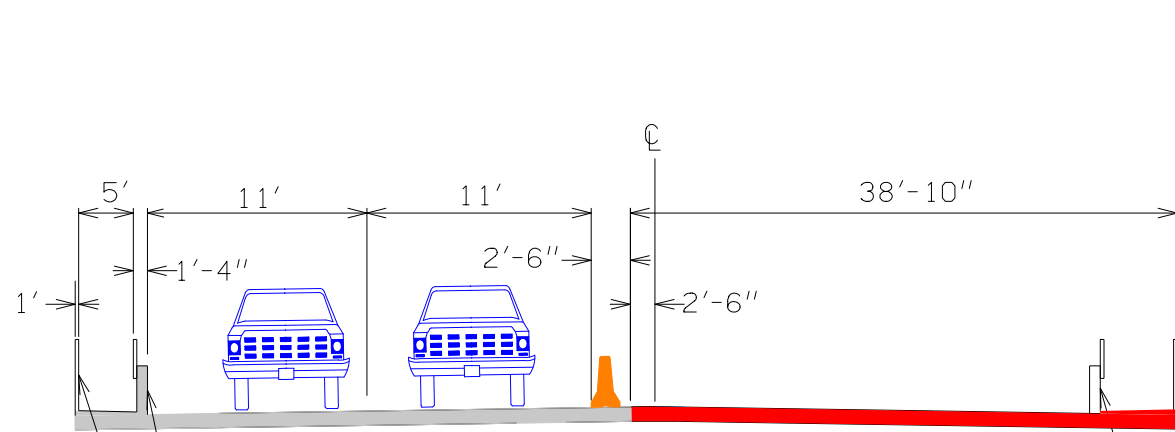


EXISTING
(LOOKING NORTH)



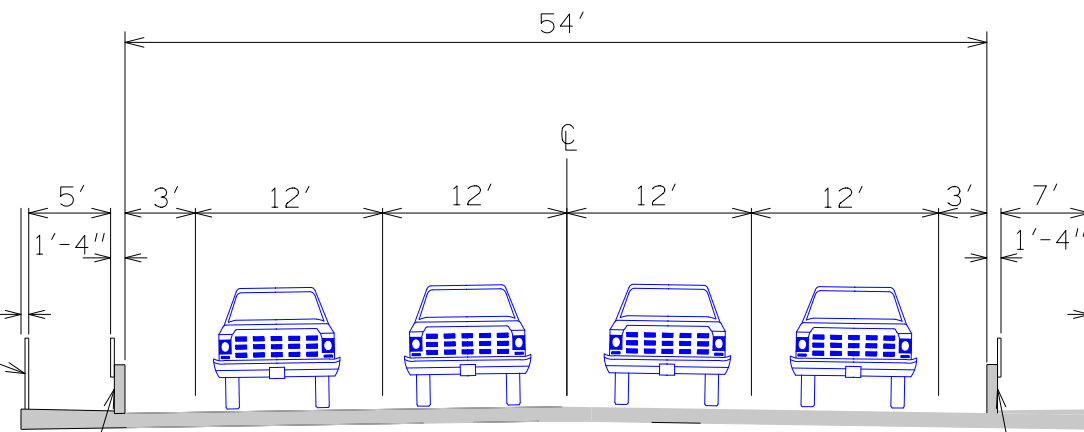
STAGE 1
(LOOKING NORTH)

CHAIN LINK FENCE
BARRIER RAIL W/STRUCTURAL STEEL RAILING



STAGE 2
(LOOKING NORTH)

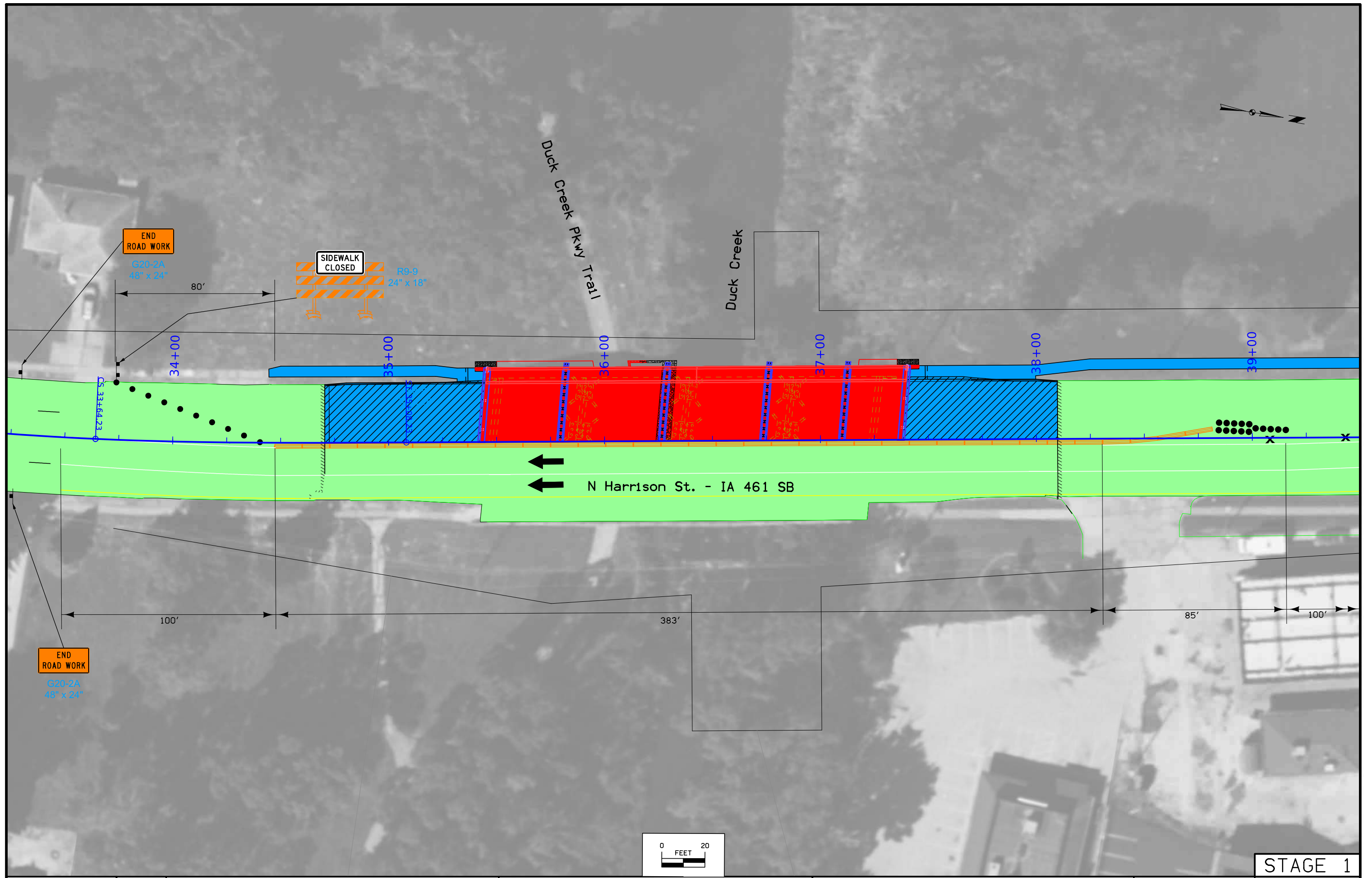
BARRIER RAIL W/STRUCTURAL STEEL RAILING
CHAIN LINK FENCE

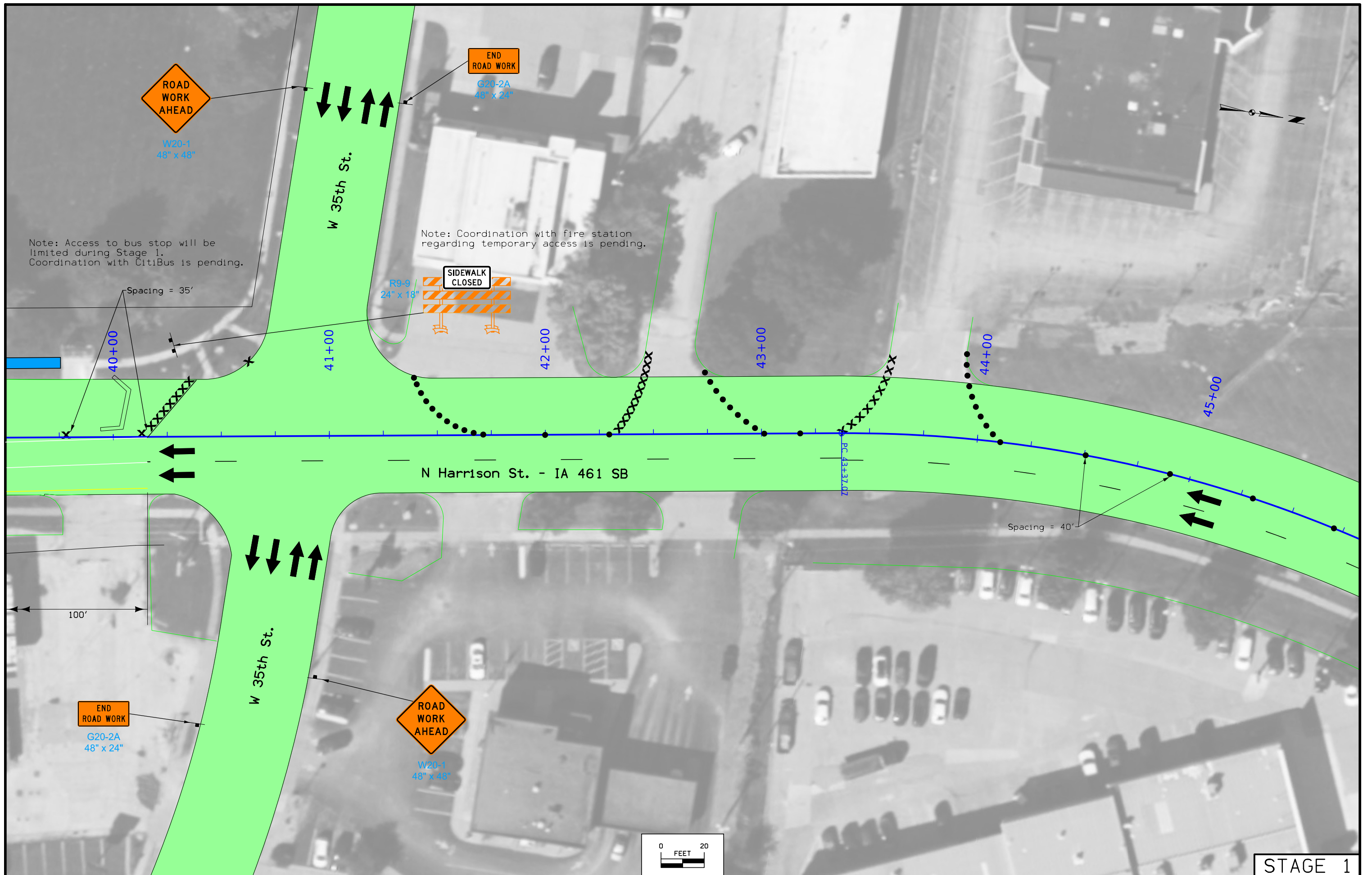


FINAL
(LOOKING NORTH)

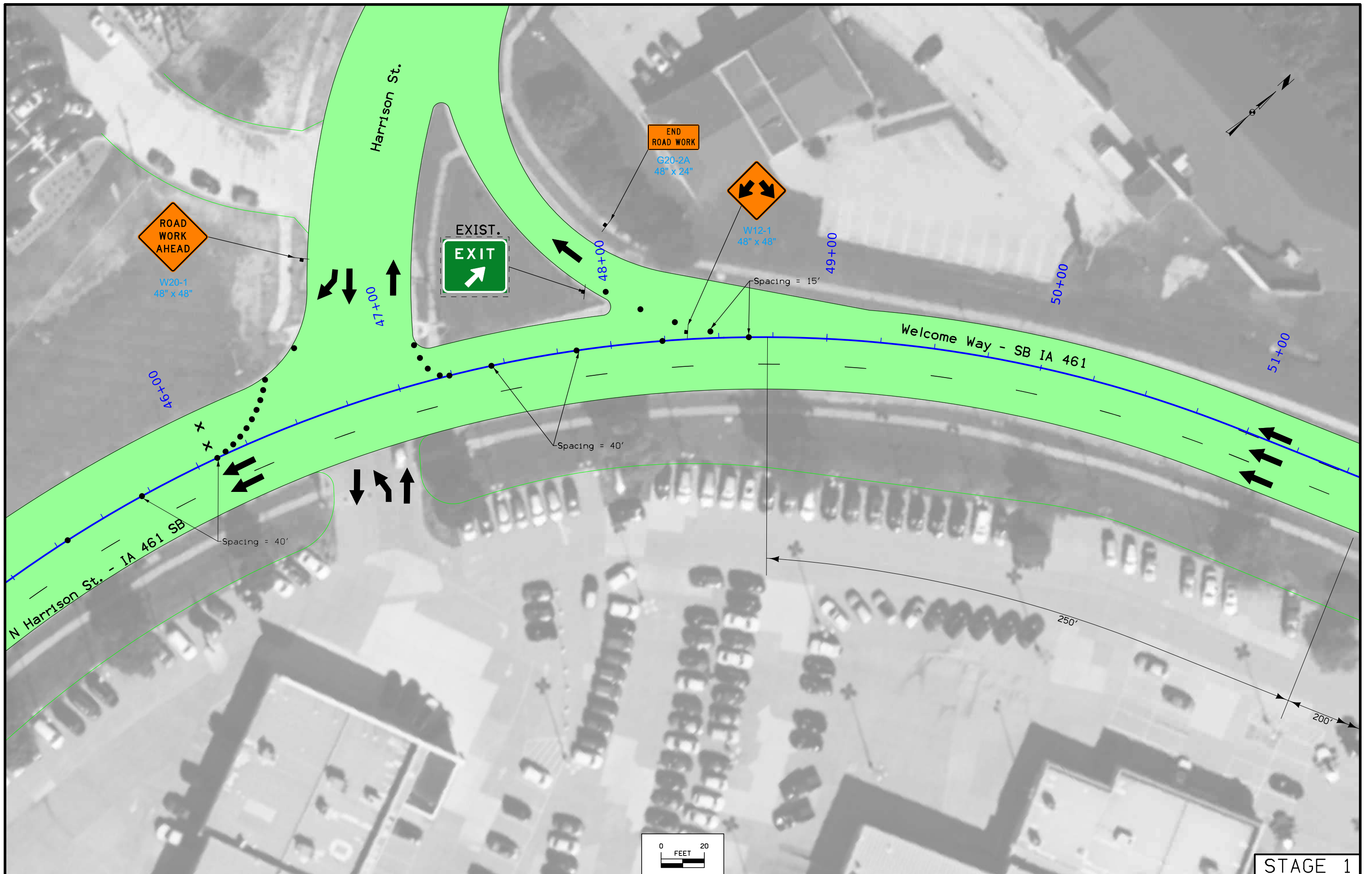
CHAIN LINK FENCE
CHAIN LINK FENCE
BARRIER RAIL W/STRUCTURAL STEEL RAILING
BARRIER RAIL W/STRUCTURAL STEEL RAILING

CHAIN LINK FENCE
BARRIER RAIL W/STRUCTURAL STEEL RAILING

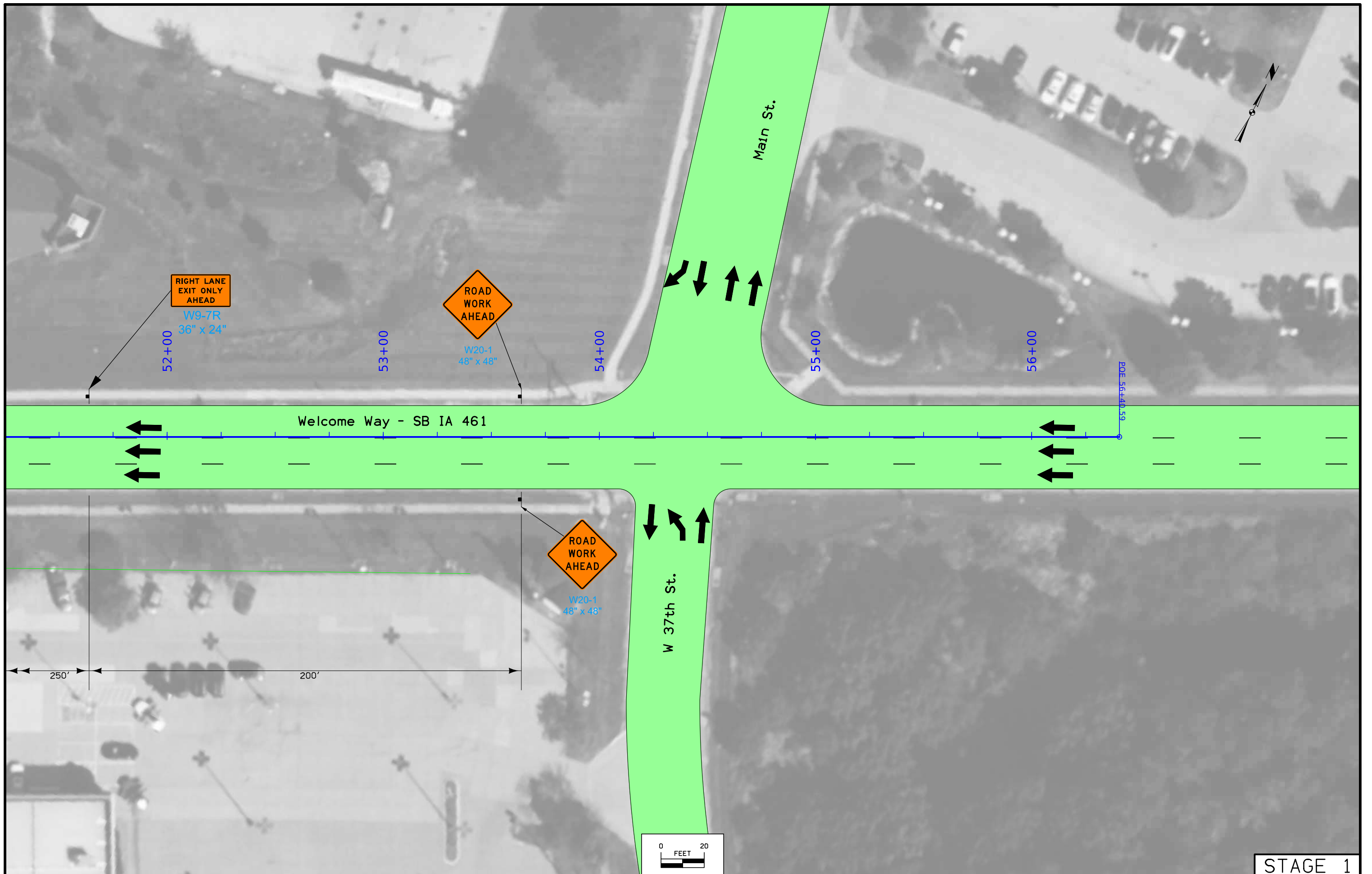




STAGE 1



STAGE 1



STAGE 1

FILE NO. 32279

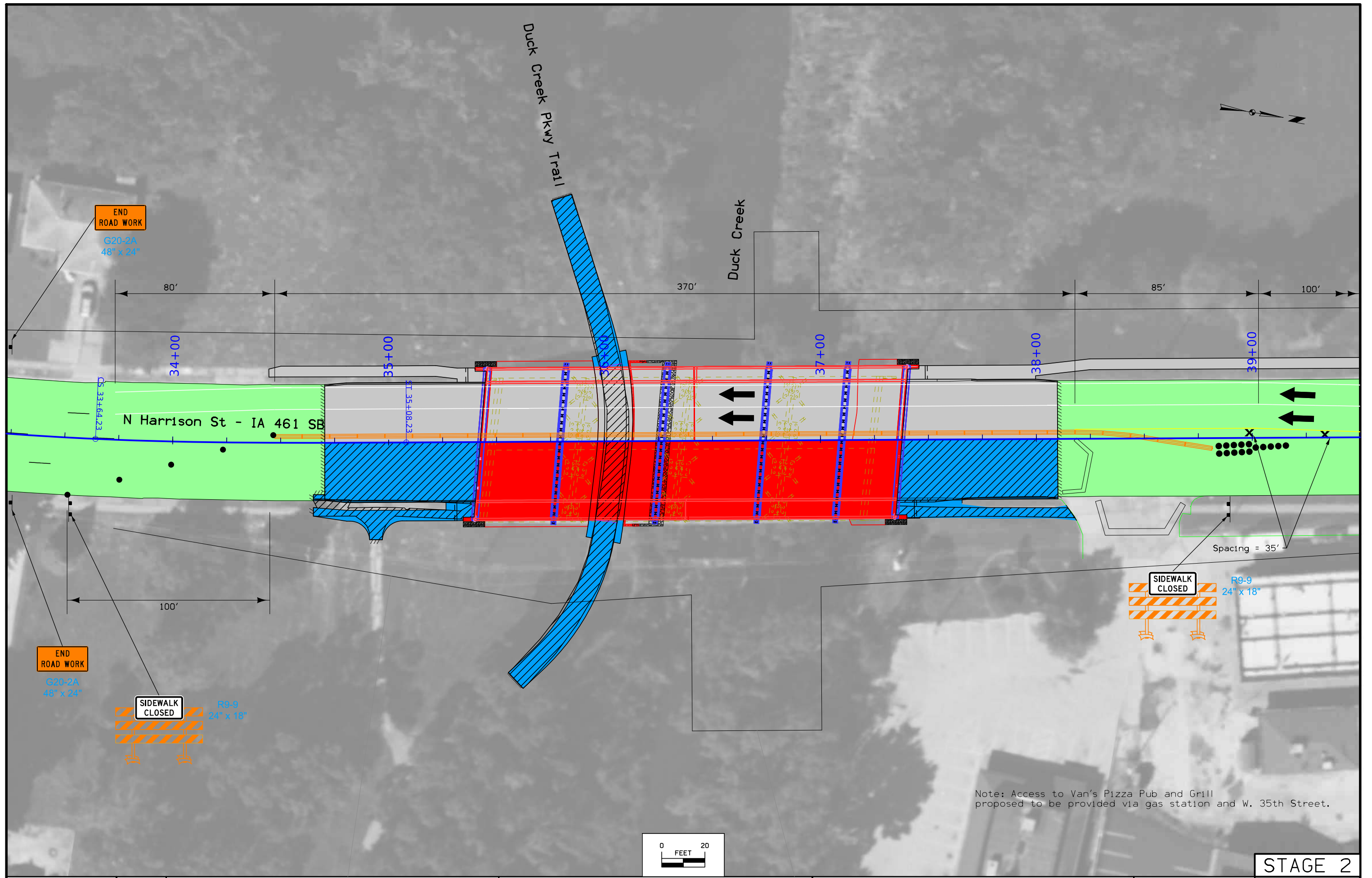
ENGLISH

DESIGN TEAM HNTB

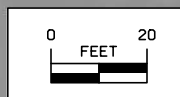
SCOTT COUNTY

PROJECT NUMBER BRF-461-1(13)--38-82

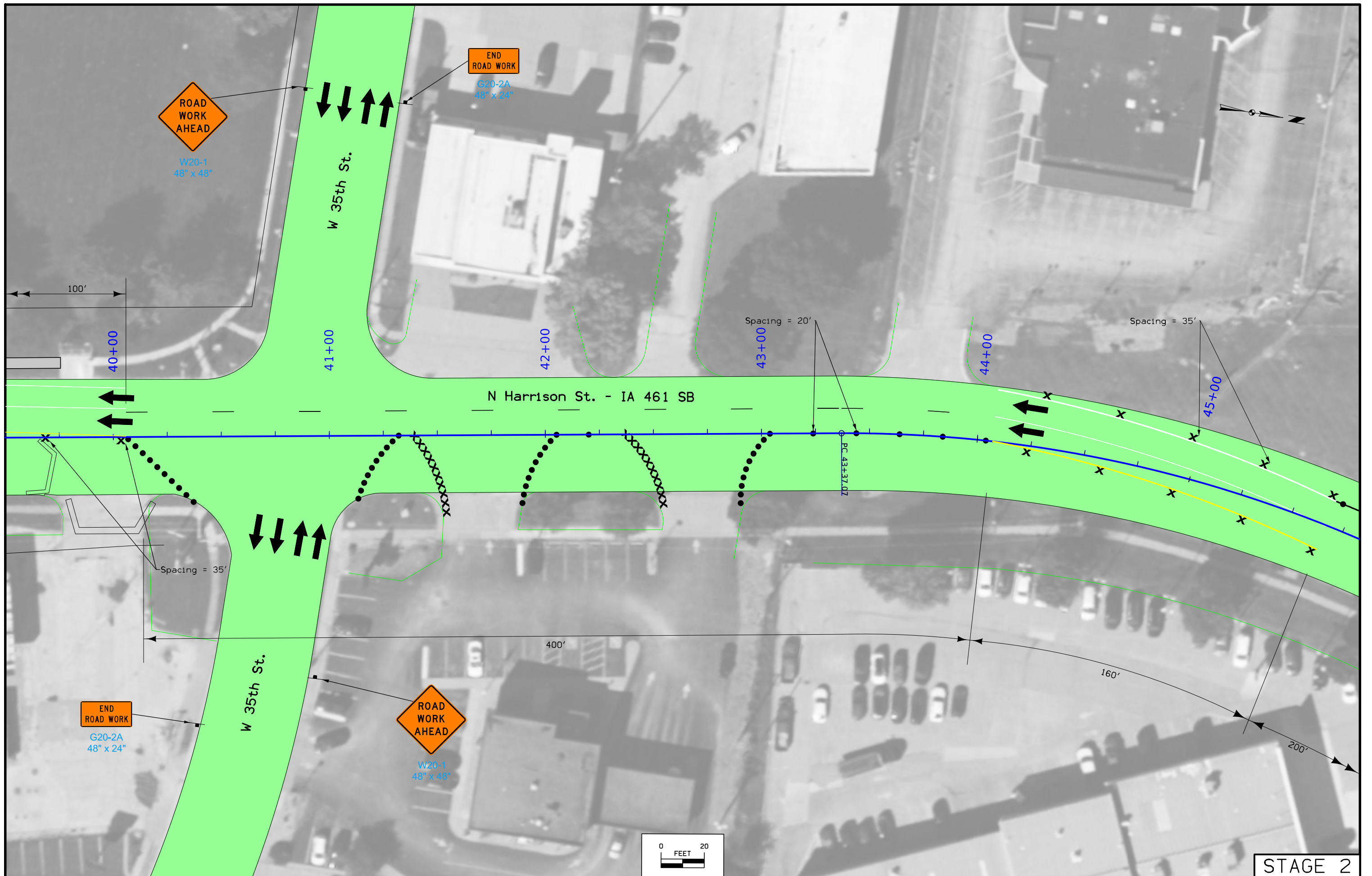
SHEET NUMBER J.7



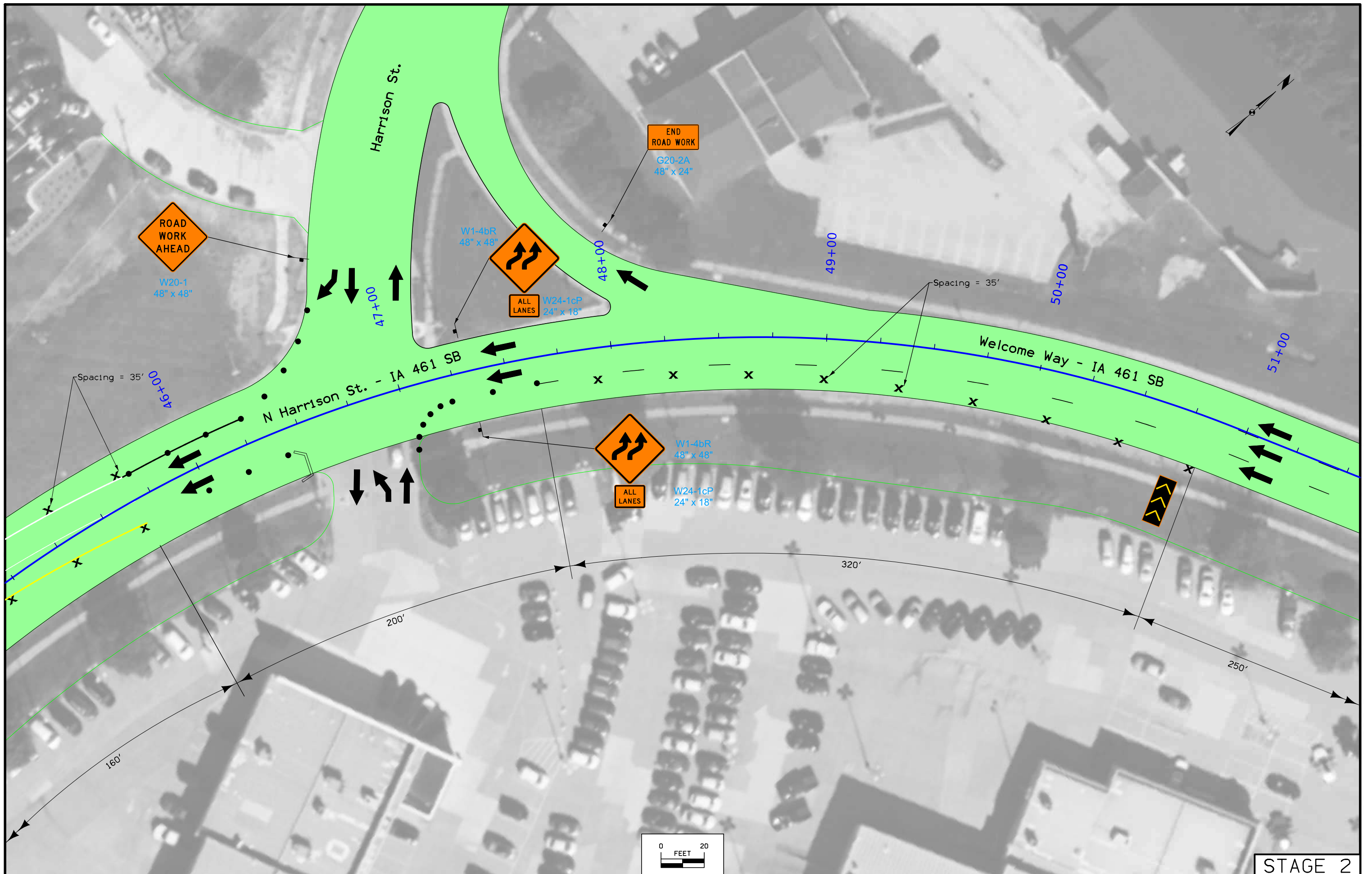
Note: Access to Van's Pizza Pub and Grill proposed to be provided via gas station and W. 35th Street.



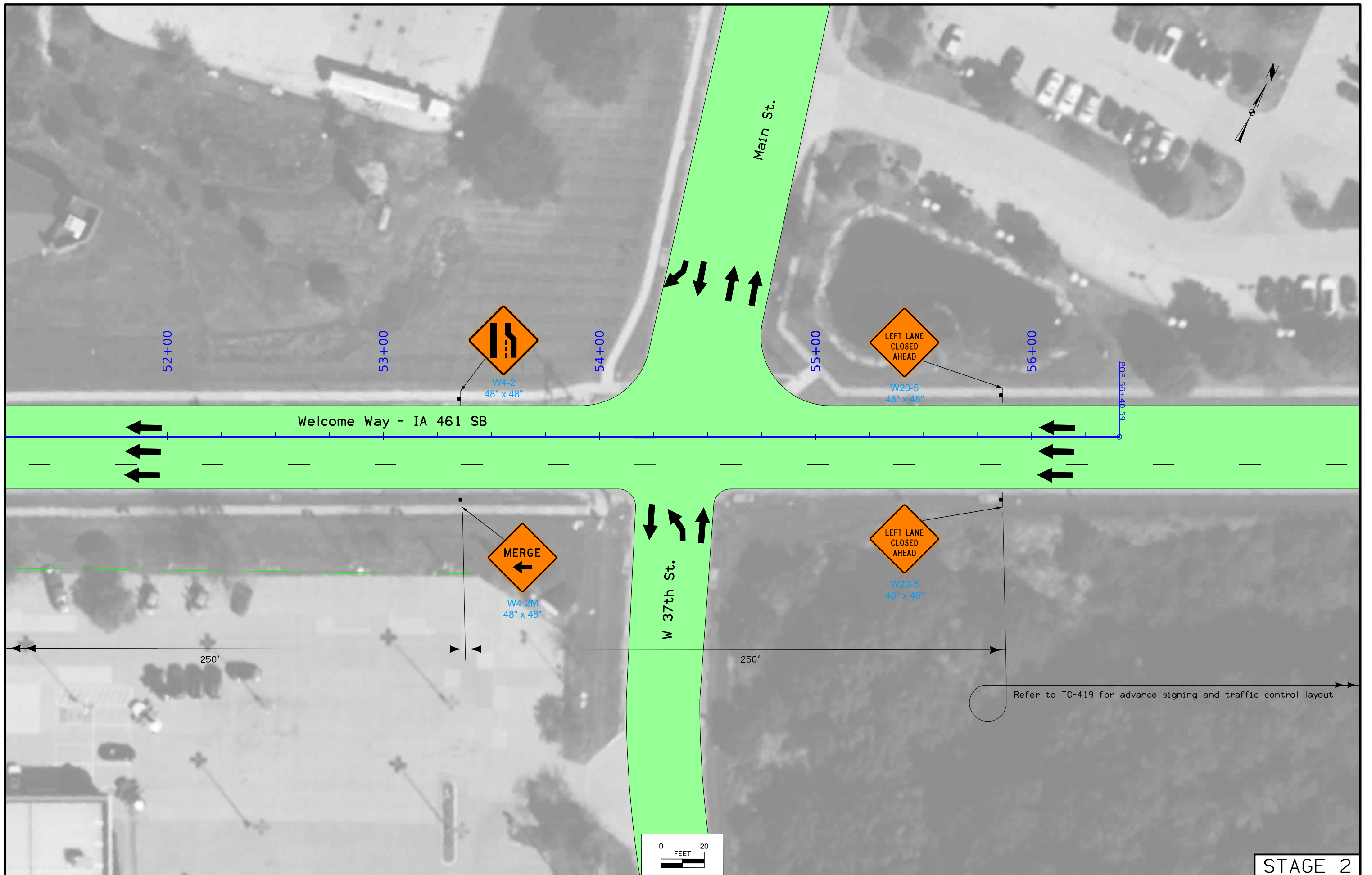
STAGE 2



STAGE 2



STAGE 2



STAGE 2

FILE NO. 32279

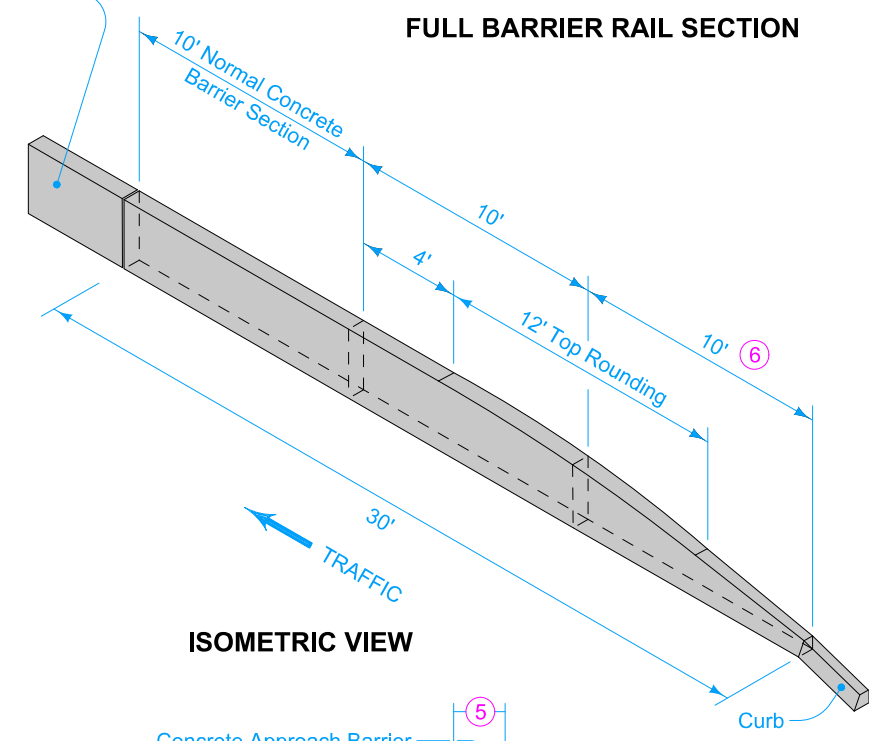
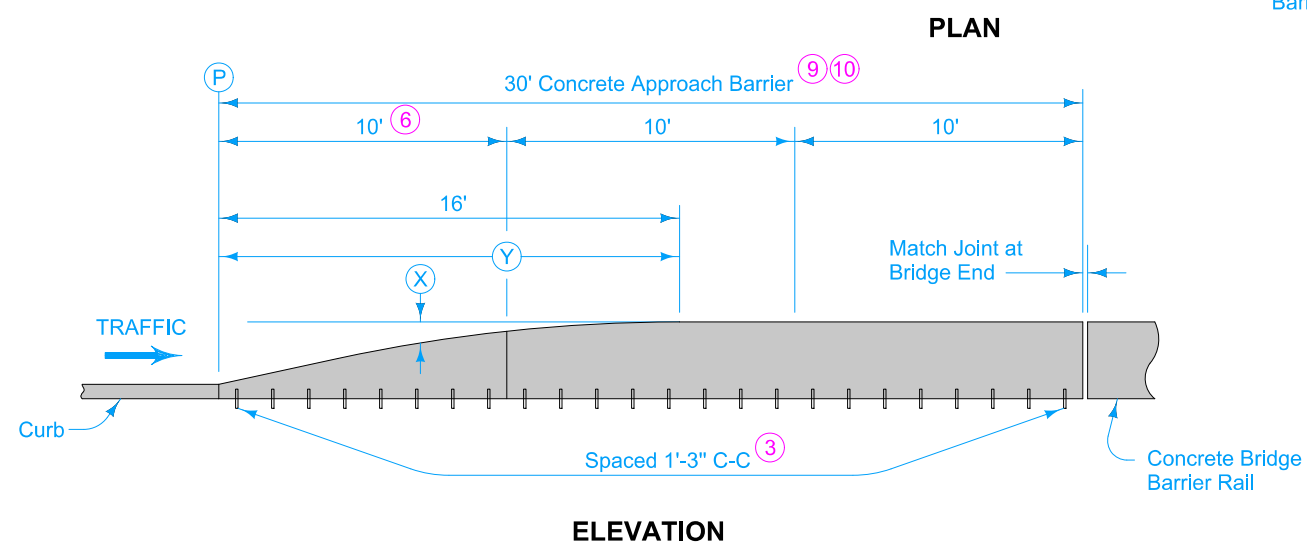
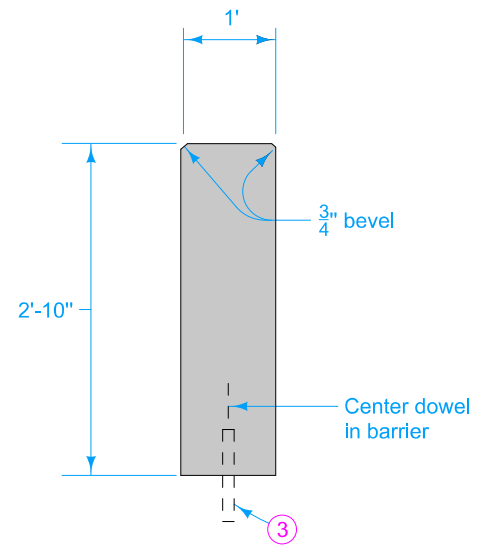
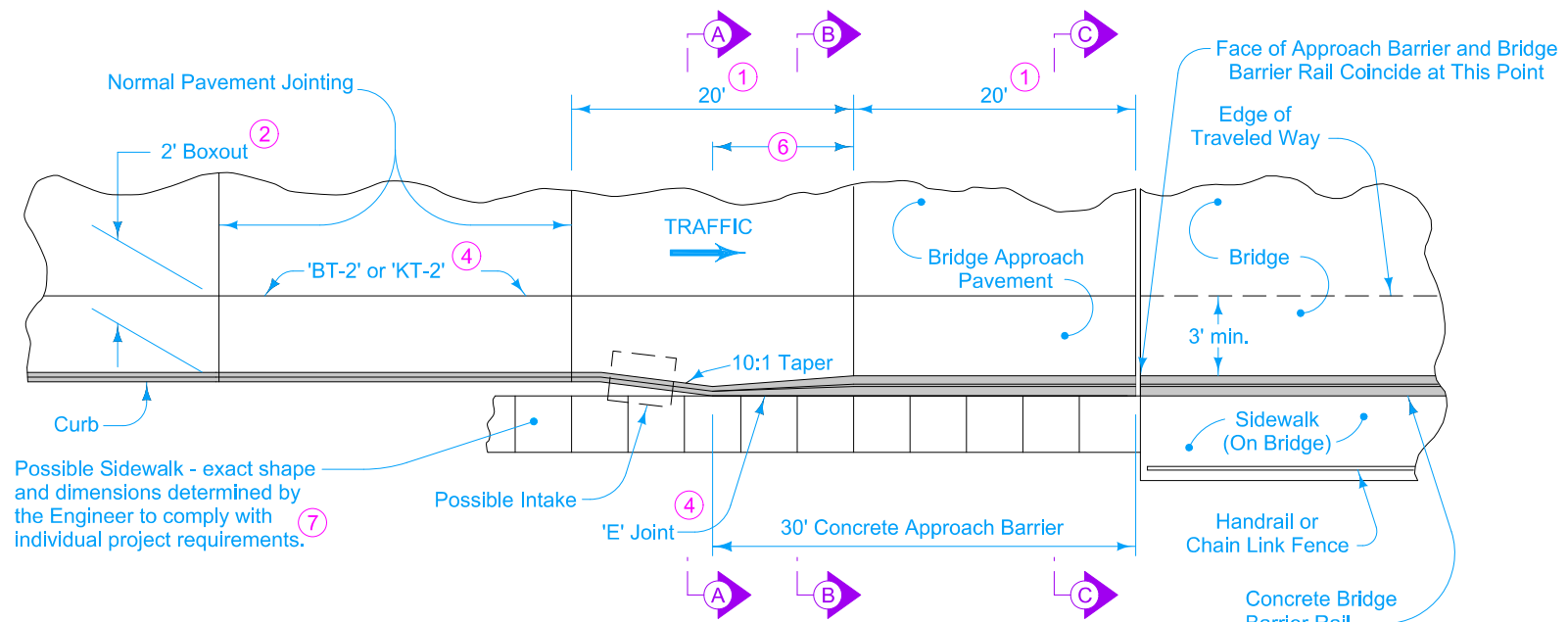
ENGLISH

DESIGN TEAM HNTB

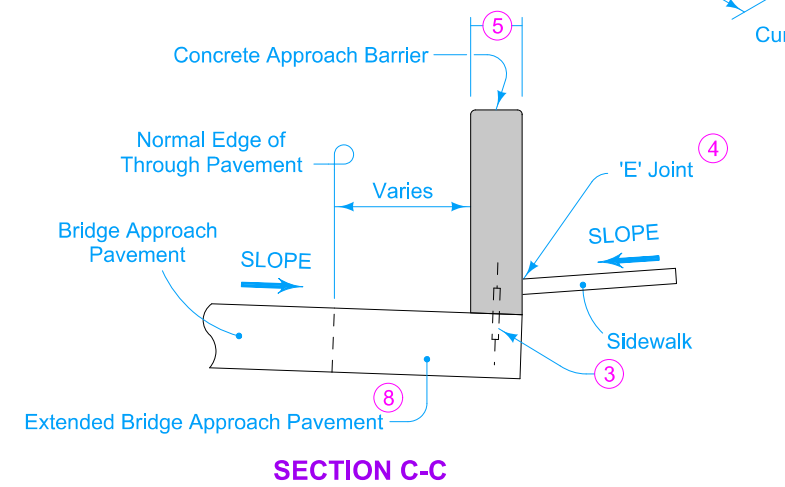
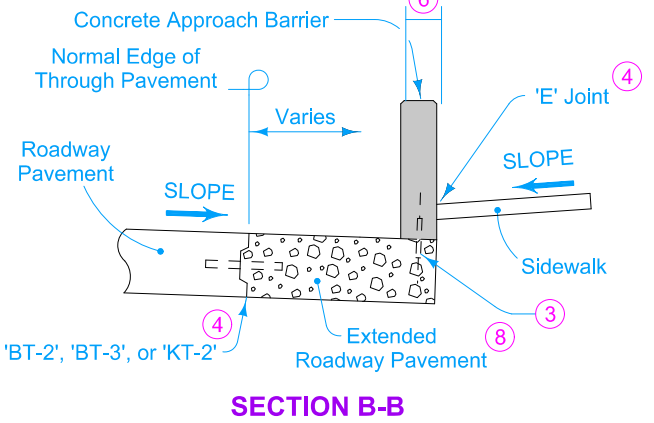
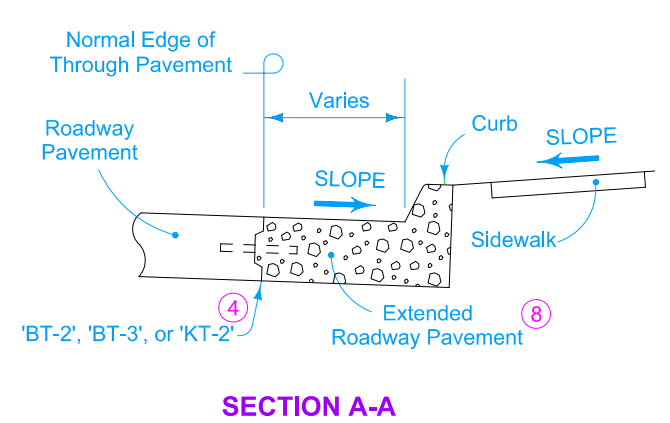
SCOTT COUNTY

PROJECT NUMBER BRF-461-1(13)--38-82

SHEET NUMBER J.11



OFFSETS FOR ROUNDED BARRIER TOP																	
Y = Distance from (P)	ft.	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
X = Offset to Rounded Top	ft.	2.13	1.91	1.70	1.48	1.26	1.06	0.87	0.70	0.54	0.42	0.30	0.20	0.12	0.06	0.02	0.00

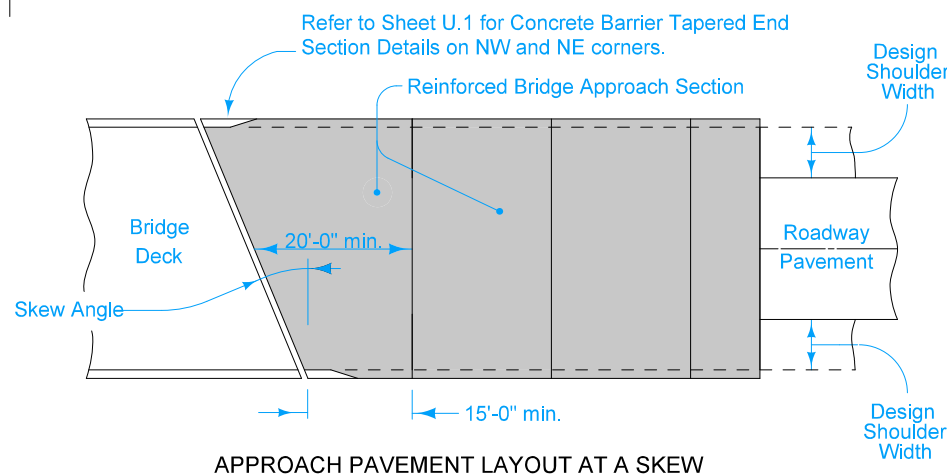
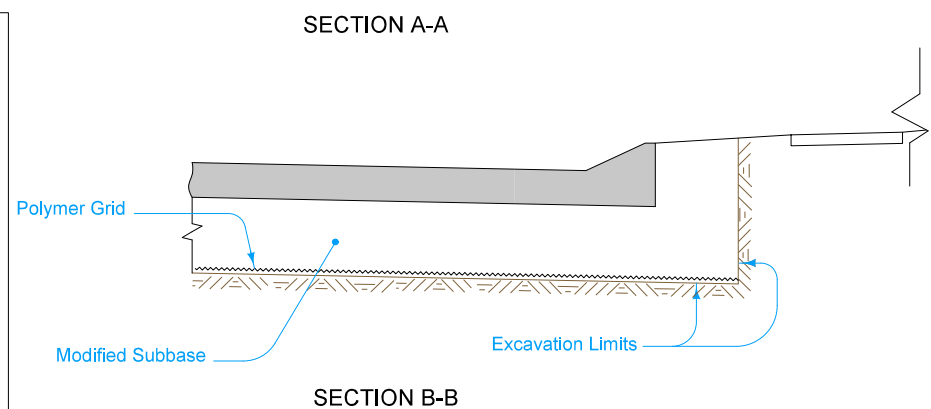
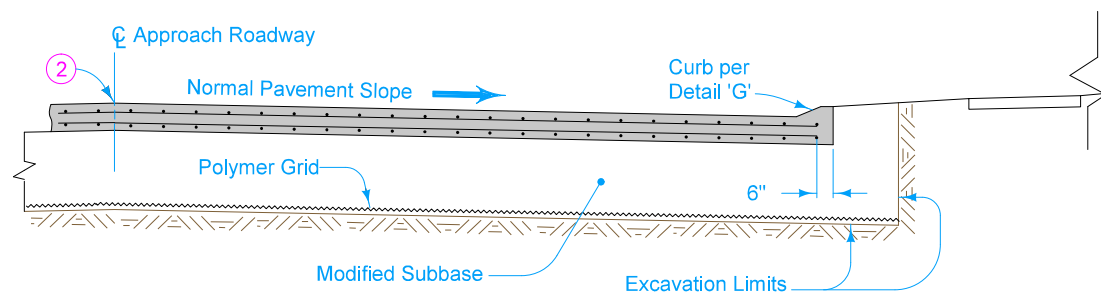
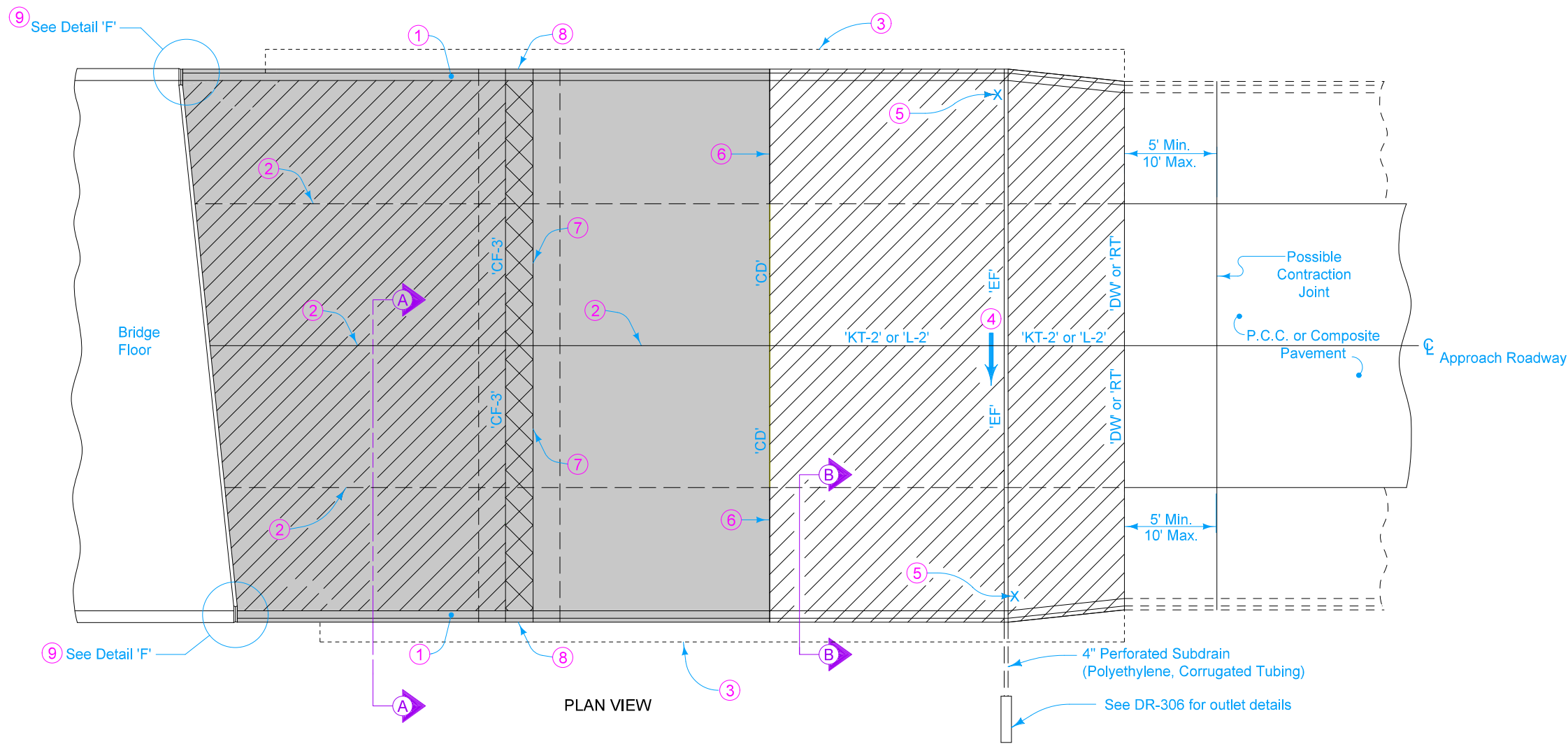


- Install a 'C' joint in concrete approach barrier to match the location of each joint in both roadway and bridge approach pavement.
- Typical joint spacing and location. Follow specific project requirements as directed by the Engineer.
 - Match boxout width to existing curb and gutter joint. Use 2 foot wide boxout where curb and gutter are not constructed.
 - #8 x 8 inch deformed bars or 1 inch diameter smooth.
 - For joint detail, see PV-101.
 - Bottom width of barrier is maintained at 12 inches.
 - Bottom width of barrier transitions from 9 to 12 inches.
 - Required sidewalk will be measured and paid for separately.
 - Additional concrete quantity required for extended roadway pavement will be included in roadway paving quantity.
 - Place no delineator or object marker in front of, or on, the barrier.
 - Approximately 2.6 cubic yards of concrete are required to construct barrier as shown. Amount may vary depending on individual site requirements.

Possible Contract Item:
Concrete Barrier, Tapered End, BA-108

Possible Tabulation:
108-18B

<h1>MODIFIED</h1> <h2>STANDARD ROAD PLAN</h2>	REVISION
	BA-108
	SHEET 1 of 1
MODIFICATIONS: Modified the Full Barrier Rail Section. Changed sidewalk to slope towards curb.	
CONCRETE BARRIER TAPERED END SECTION	



Pay limits for contract item include the following areas:

	Double Reinforced Section
	Sleeper Beam Section
	Single Reinforced Section
	Non-Reinforced Section

For joint details, see PV-101.

For curb details, see Detail 'G'.

All transverse bars are #5.

Use epoxy coated bars for all reinforcement.

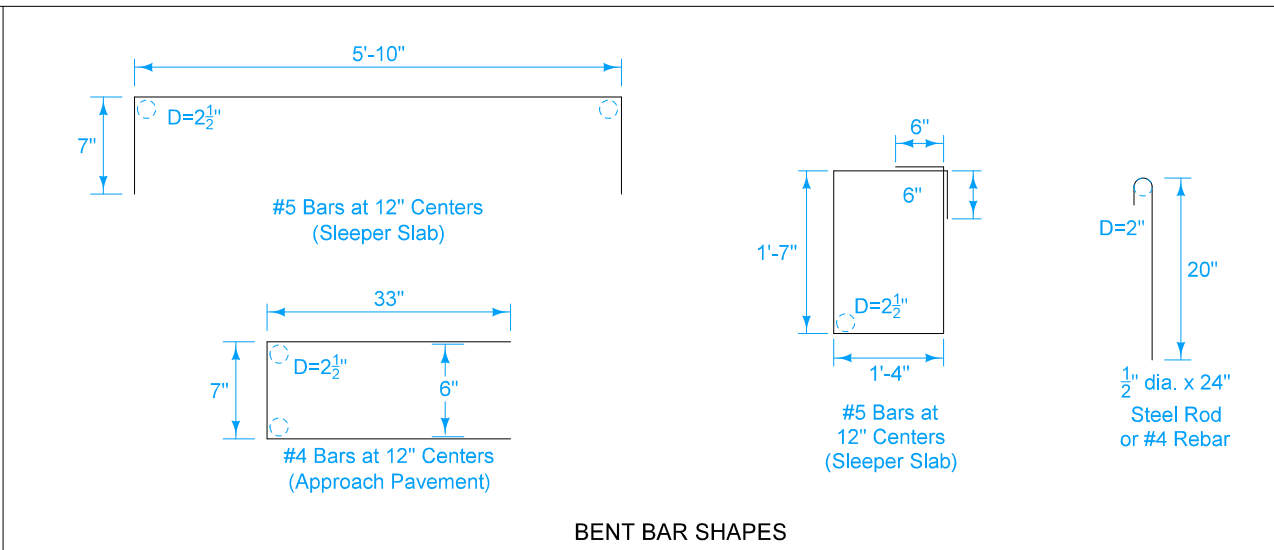
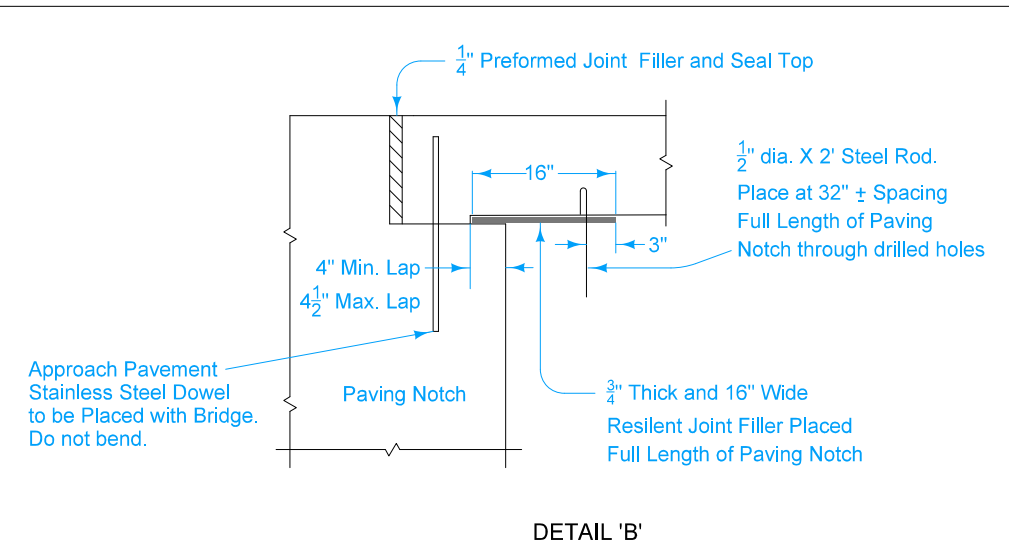
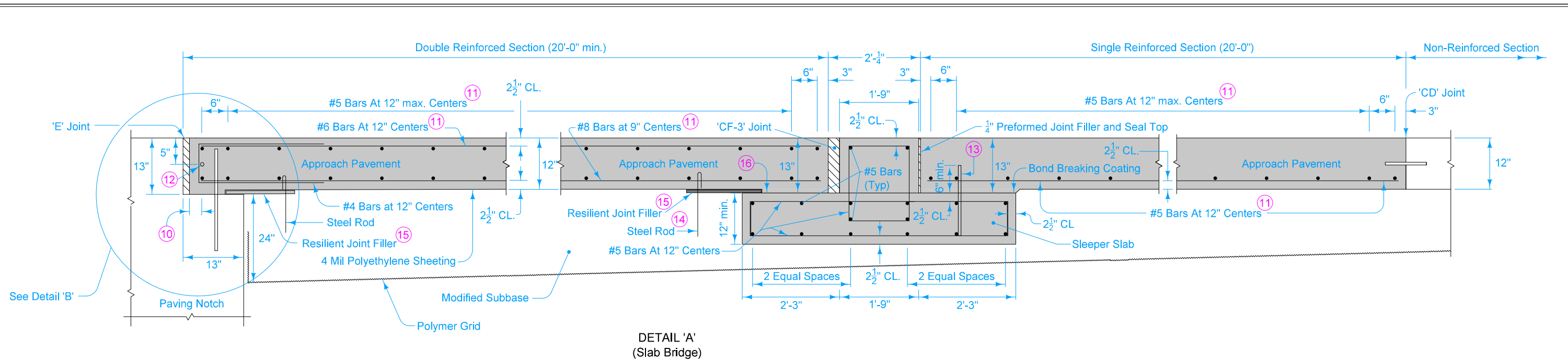
Quantities for both the 1'-9" top part of the sleeper slab and the 6'-3" portion under the approach pavement have been included in the double reinforced section quantities.

- 1 Build 4 inch Sloped Curb as shown in Details G and H on Sheet U.4. Transition curb to match existing curb the last 5' of approach pavement in the NW, NE and SW corners. Refer to PV-102 for curb transition details.
- 2 Longitudinal Joint (PV-101):
Single Pour - Saw cut joint per Detail B.
Two Pours - Use 'KS-1' joint (Single Reinforced Section).
Use 'KS-2' joint (Double Reinforced Section).
- 3 Polymer Grid and excavation limits of Modified Subbase 2 feet outside of pavement edge.
- 4 Slope subdrain to drain.
- 5 Place an "X" in the plastic concrete near the 'EF' joint at the outside edge of pavement.
- 6 Place 'RD' Joint where PCC shoulder. Place 'B' joint otherwise.
- 7 1/4 inch Prefomed Joint Filler and seal top.
- 8 See Detail 'C'.
- 9 Detail 'F' for SW and SE Corners Only. Refer to Modified BA-108 on Sheet U.1 for NW and NE corner barrier details.

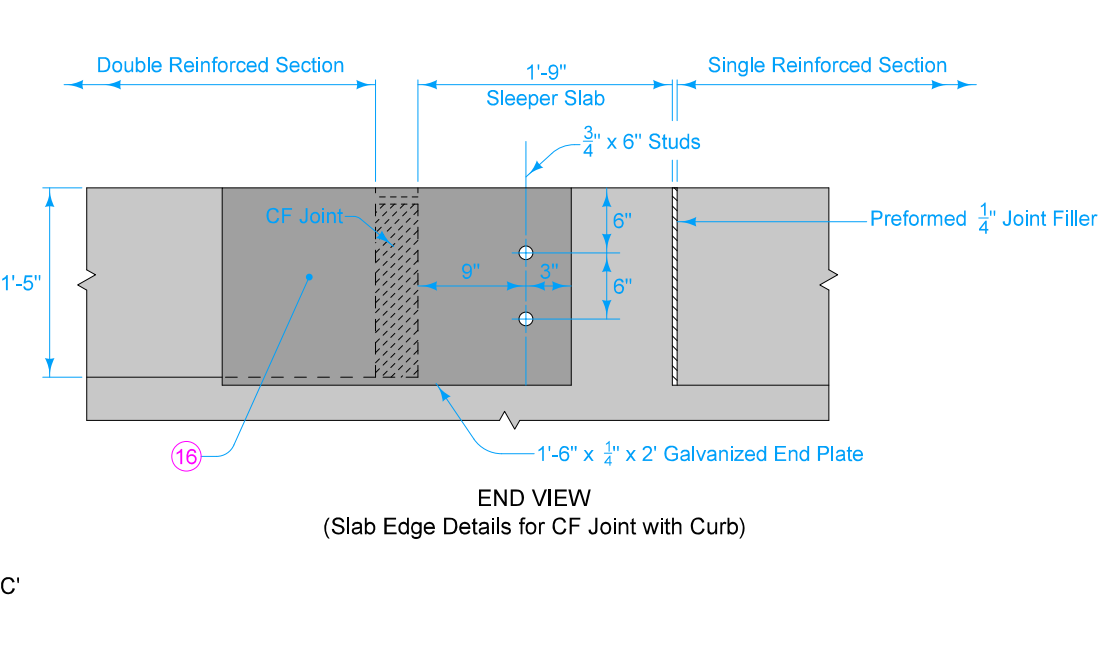
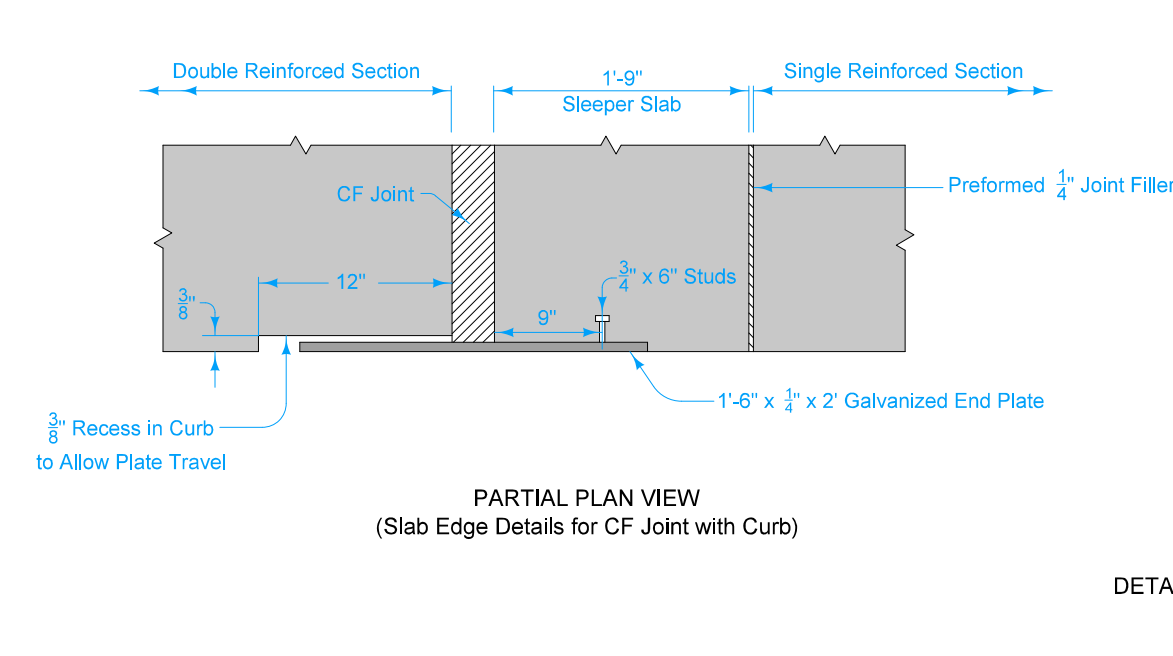
Possible Contract Item:
Bridge Approach, As Per Plan

Possible Tabulation:
112-6

<h1>MODIFIED STANDARD ROAD PLAN</h1>	REVISION
	BR-205
	SHEET 1 of 4
MODIFICATIONS: Modified curb lengths and Notes 1 and 9. Modified Details F, G and H. Removed Detail E. Removed Abutting HMA Detail. Removed Note 17.	
<h2>DOUBLE REINFORCED 12" APPROACH (SLAB BRIDGE)</h2>	



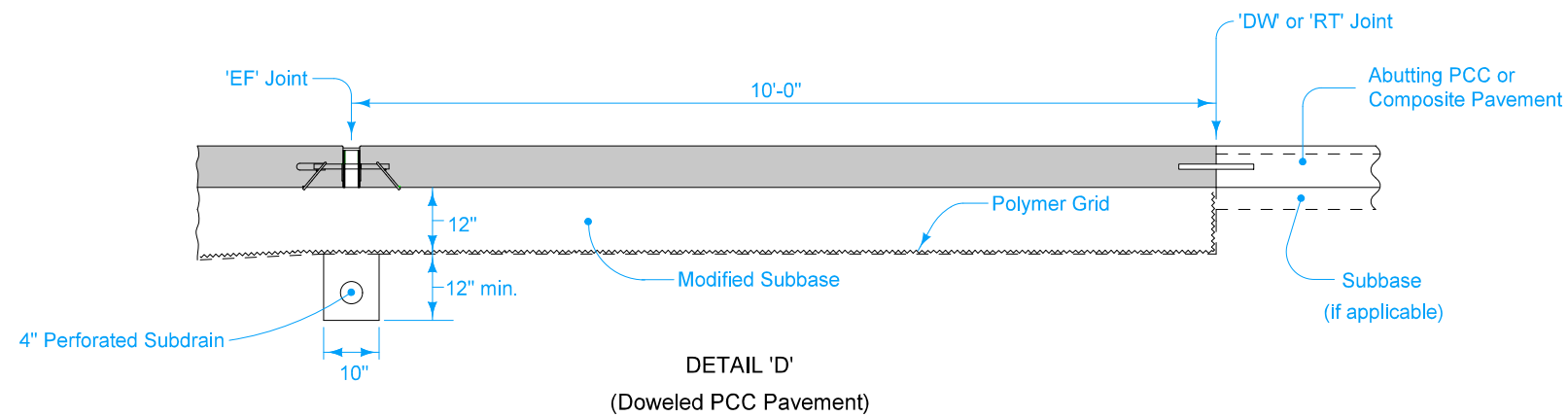
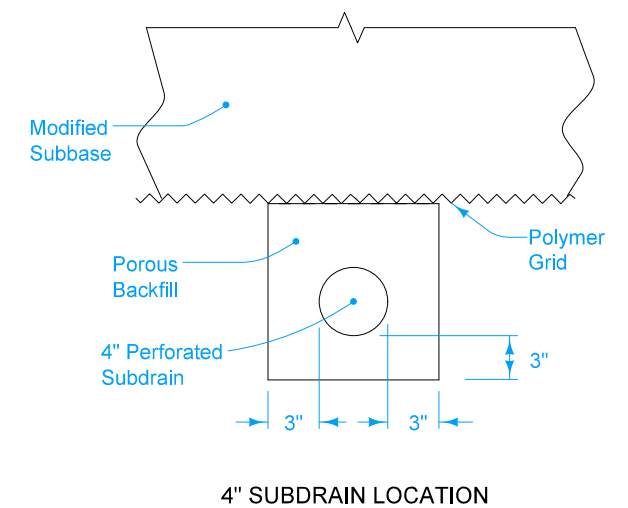
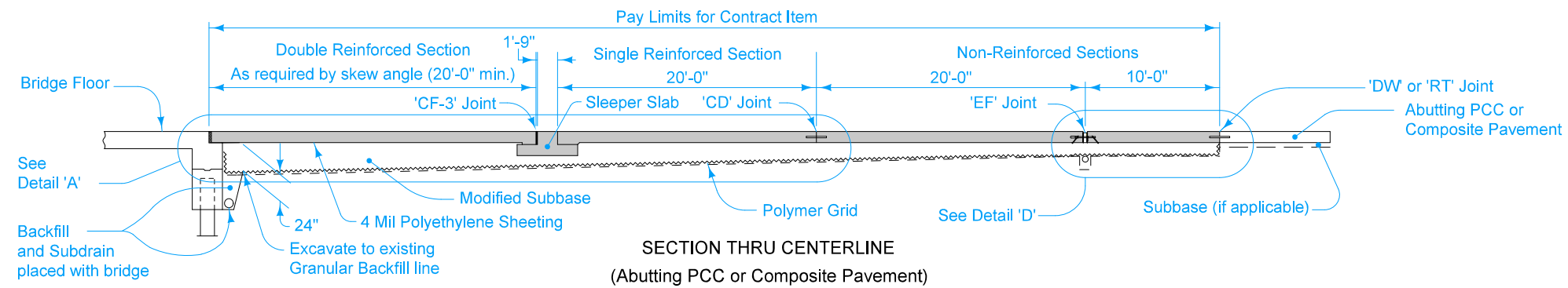
- ⑩ 2" min. to 2 1/2" max. clear to bent bar.
- ⑪ Minimum lap length: #5 Bars - 18"
#6 Bars - 27"
#8 Bars - 48"
- ⑫ If bridge is skewed, place additional #5 bar parallel to skewed face.
- ⑬ #8 dowels 1'-6" long with 2 1/2 inch bottom end clearance. Space at 24 inches O.C.
- ⑭ Space at 32" ± for full length of Sleeper Slab.
- ⑮ 3/4 inch thick x 16 inch wide Resilient Joint Filler for full length of Sleeper Slab.
- ⑯ Debond Paving Notch with 2 layers of 30# Asphaltic Felt Paper full length.



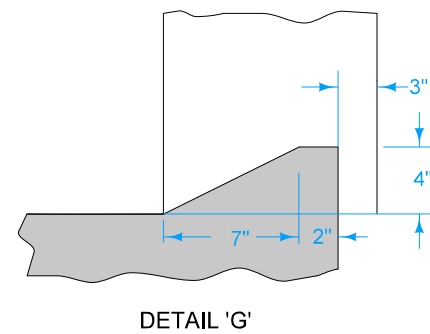
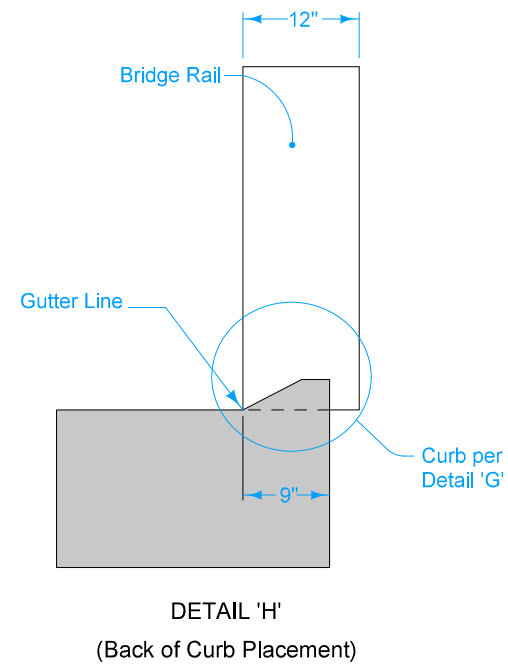
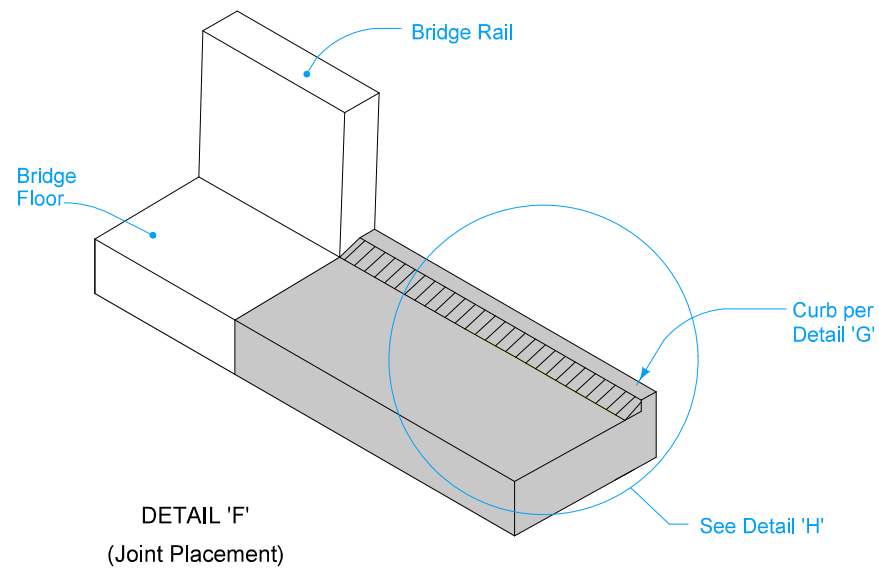
MODIFIED STANDARD ROAD PLAN	REVISION
	BR-205
	SHEET 2 of 4

MODIFICATIONS: Modified curb lengths and Notes 1 and 9.
Modified Details F, G and H.
Removed Detail E.
Removed Abutting HMA Detail.
REMOVED Note 17.

**DOUBLE REINFORCED 12" APPROACH
(SLAB BRIDGE)**

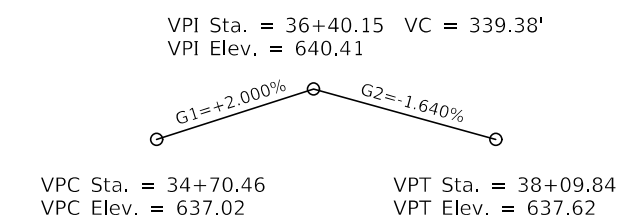
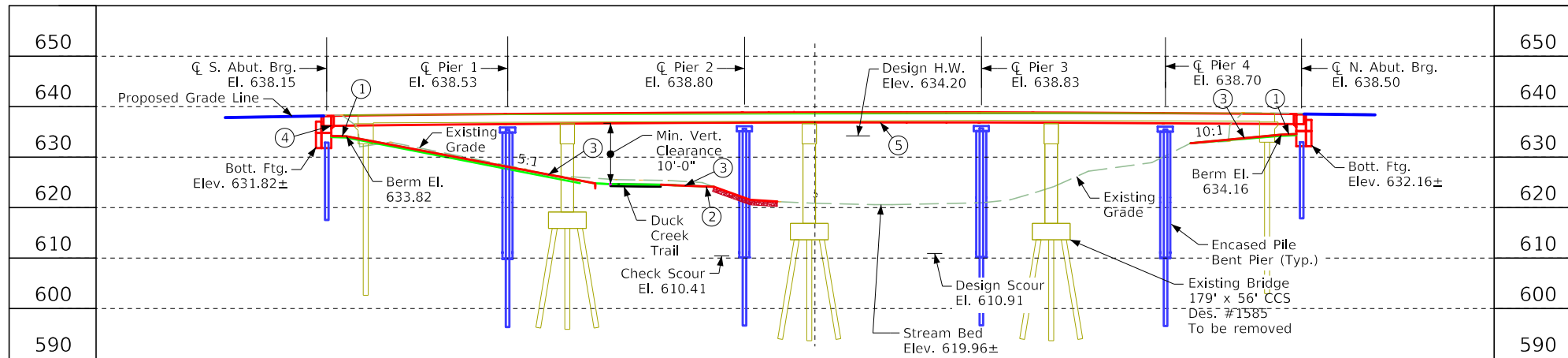


<h1>MODIFIED STANDARD ROAD PLAN</h1>	REVISION
	BR-205
	SHEET 3 of 4
MODIFICATIONS: Modified curb lengths and Notes 1 and 9. Modified Details F, G and H. Removed Detail E. Removed Abutting HMA Detail. Removed Note 17.	
<h2>DOUBLE REINFORCED 12" APPROACH (SLAB BRIDGE)</h2>	



MODIFIED STANDARD ROAD PLAN	REVISION
	BR-205
	SHEET 4 of 4
MODIFICATIONS: Modified curb lengths and Notes 1 and 9. Modified Details F, G and H. Removed Detail E. Removed Abutting HMA Detail. Removed Note 17.	
DOUBLE REINFORCED 12" APPROACH (SLAB BRIDGE)	

Control Point: BENCH MARK FENO 1, 8075102.223N, 21488092.040S, CP IDOT FENO Monument from the Intersection of Hwy SB 461 and W. 35th St. proceed S. 640 ft., Point is 49ft W. of the CL of Hwy SB 461, 4 in. below the surface. El. 635.022



- ① Concrete Slope Protection
- ② Articulated Concrete Block Mat Erosion Protection
- ③ Grading Surface
- ④ Operation Low Superstructure Elev. 635.45
- ⑤ Regulatory Low Superstructure Elev. 636.15
- ⑥ Concrete Slope Protection
- ⑦ Concrete Articulated Mat Erosion Protection
- ⑧ Erosion Stone, 9" Thick

Proposed Profile Grade IA 461 SB

Hydraulic Data

Drainage Area = 39.4 Sq. Mi.
 Stream Slope = 7.4 Ft./Mi.
 Avg. Low Water Stage = 620.96

Q₅₀ = 7,438 CFS
 Stage = 633.76
 Backwater = 0.15 Ft.
 Avg. Bridge Velocity = 4.0 FPS

Q₁₀₀ = 8,516 CFS
 Stage = 634.20
 Backwater = 0.18 Ft.
 Avg. Bridge Velocity = 4.4 FPS

Notes to Final Designer:

1. Continuous concrete slab proposed. Deck depth assumed 2' thick for preliminary design. Notify prelim. engineer if final deck depth exceeds 2'.
2. TL-4 barrier separation rail proposed.
3. Pier Type - Pile Bent (Fully Encased)
4. Bridge aesthetics to be incorporated into final design.
2. Steel sheet piling may be necessary for staged construction; see sheet 4 for staging details.
3. The bridge will be designed to withstand the applicable effects of ice and the horizontal stream loads and uplift forces associated with the Q100.

LONGITUDINAL SECTION ALONG CL APPROACH ROADWAY

General Notes:

This design is for the replacement of the existing 176'-0" x 56'-0" Continuous Concrete Slab Bridge, Scott Design No. 1585, FHWA No. 047210, Maint. No. 8220.1L061. Top of bridge deck crown is 0.03' below profile grade.

Minimum Vertical Clearance:

Overhead Station = 35+98.33, Offset 34.33'
 Overhead Elevation = 638.00
 Depth Of Superstructure = 3.03'
 Underpass Station = 11+10.45
 Underpass Elevation = 624.82
 Minimum Vertical Clearance = 10.15'

Utilities Legend:

- FO1 - Fiber Optic - CentryLink
- FO2 - Fiber Optic - Unite Private Networks
- FO3 - Fiber Optic - ICN
- GL1 - Gas Line - MidAmerican-Gas
- SA1 - Sewer - City of Davenport
- WL1 - Water - Iowa American Water

Q₅₀₀ = 11,200 CFS
 Stage = 635.06
 Calculated Check Scour = 610.91
 Calculated Design Scour = 610.41

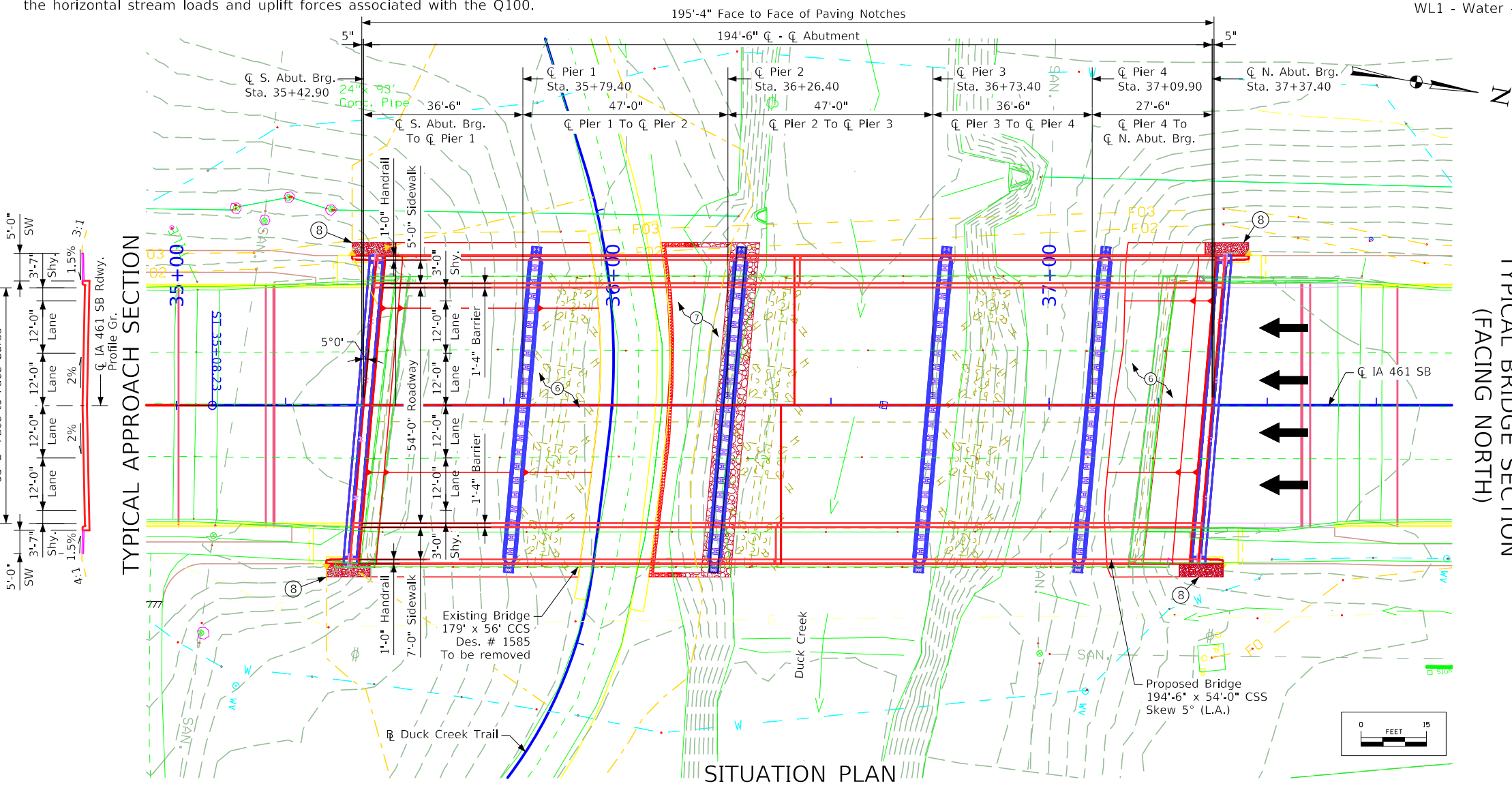
Roadway Overtop 631.56
 Sta. 41+04

Location

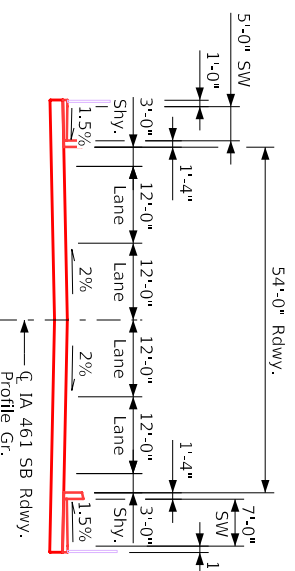
IA 461 SB over Duck Creek
 T-78N R-3E
 Section 14
 Davenport Township
 Scott County
 City of Davenport
 FHWA No. 047211
 Bridge Maint. No. 8220.1L061
 Latitude 41.554544° N
 Longitude 90.576837° W

Traffic Estimate

2025 AADT 20,800 V.P.D.
 2045 AADT 23,600 V.P.D.
 202_DHV _____ V.P.H.
 Trucks _____ 1 %
 Total _____
 Design ESALs _____



TYPICAL BRIDGE SECTION (FACING NORTH)



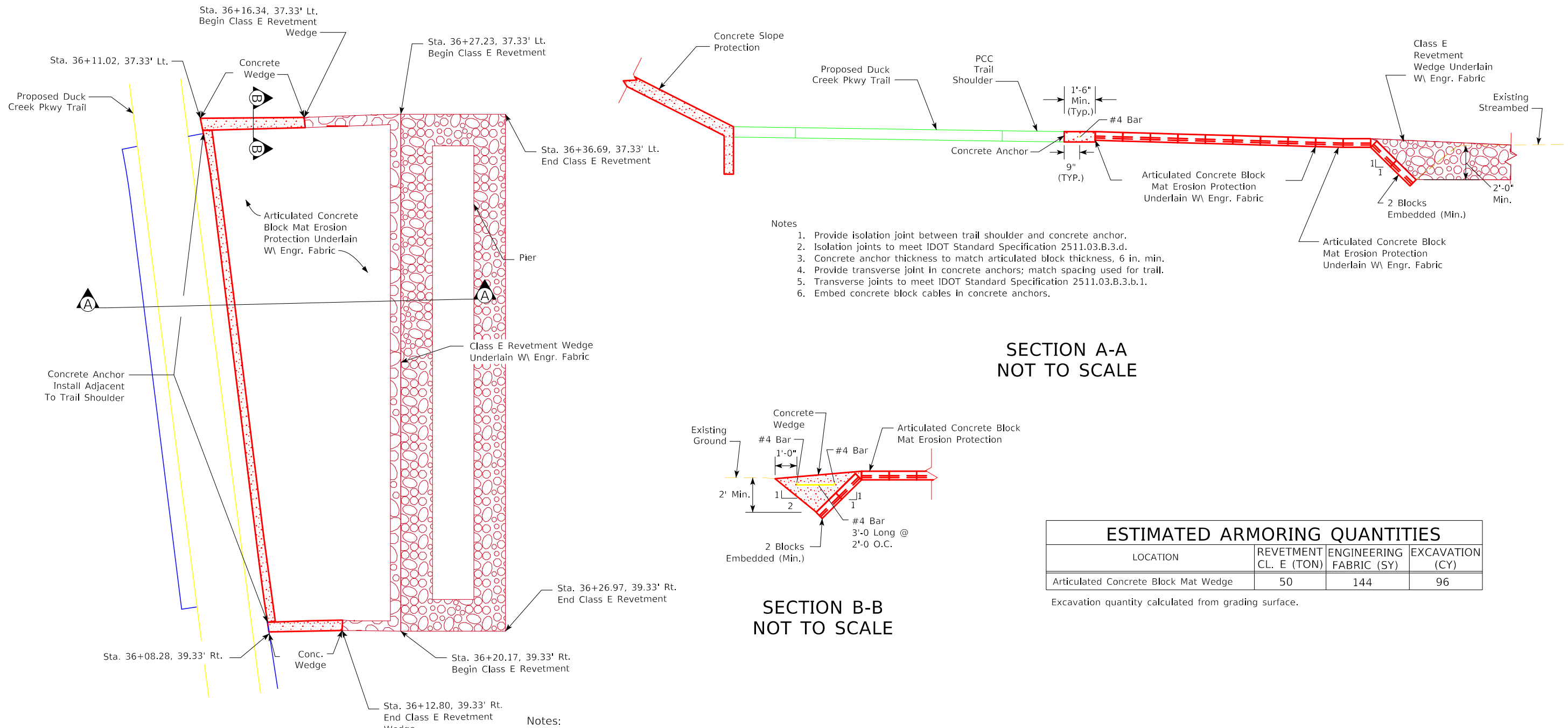
PRELIMINARY

Design For 5° Skew (L.A.)

194'-6" X 54'-0" CONTINUOUS CONCRETE SLAB BRIDGE W/ 7' EAST SIDEWALK AND 5' WEST SIDEWALK SITUATION PLAN

STA. 36+40.15 (CL IA 461 SB) Turn-In Date: November 2022

Scott County
 IOWA DEPARTMENT OF TRANSPORTATION
 Design No. 225 Design Sheet No. 1 of 4 FHWA No. 047211

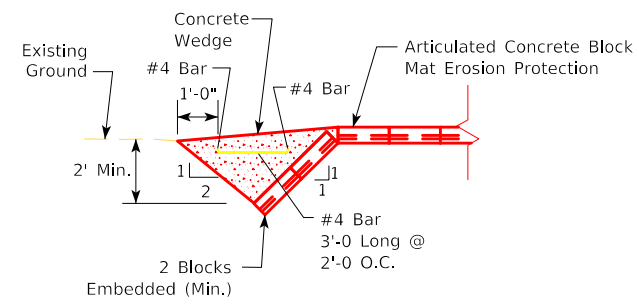


**PLAN
NOT TO SCALE**

- Notes:**
1. Refer to special provision specification for erosion control system for details regarding concrete block mats, appurtenances and payment.
 2. Install closed cell concrete blocks.
 3. Include cost for all labor, materials and equipment necessary to install cabled concrete mats, engineering fabric, clamps, anchors, joint material, joint installation, reinforcing bars, excavation and miscellaneous concrete in erosion control system bid item.
 4. The seeding requirements of the special provision for erosion control system shall not apply to this project.
 5. Refer to Design Sheet 2 for concrete block station\offsets and top of block\concrete anchor\revetment elevations.
 6. Estimate 104 SY of articulated concrete block mat erosion protection required for project.

- Notes**
1. Provide isolation joint between trail shoulder and concrete anchor.
 2. Isolation joints to meet IDOT Standard Specification 2511.03.B.3.d.
 3. Concrete anchor thickness to match articulated block thickness, 6 in. min.
 4. Provide transverse joint in concrete anchors; match spacing used for trail.
 5. Transverse joints to meet IDOT Standard Specification 2511.03.B.3.b.1.
 6. Embed concrete block cables in concrete anchors.

**SECTION A-A
NOT TO SCALE**



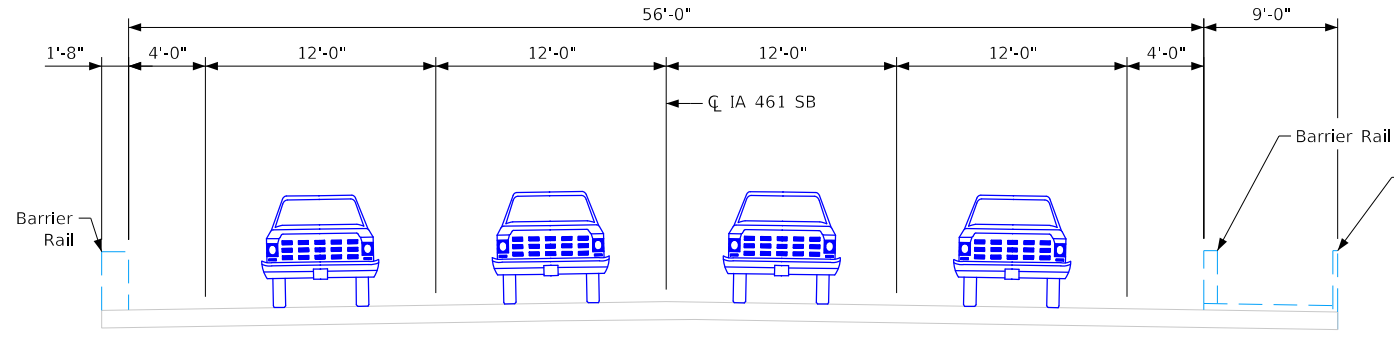
**SECTION B-B
NOT TO SCALE**

ESTIMATED ARMORING QUANTITIES			
LOCATION	REVTMENT CL. E (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
Articulated Concrete Block Mat Wedge	50	144	96

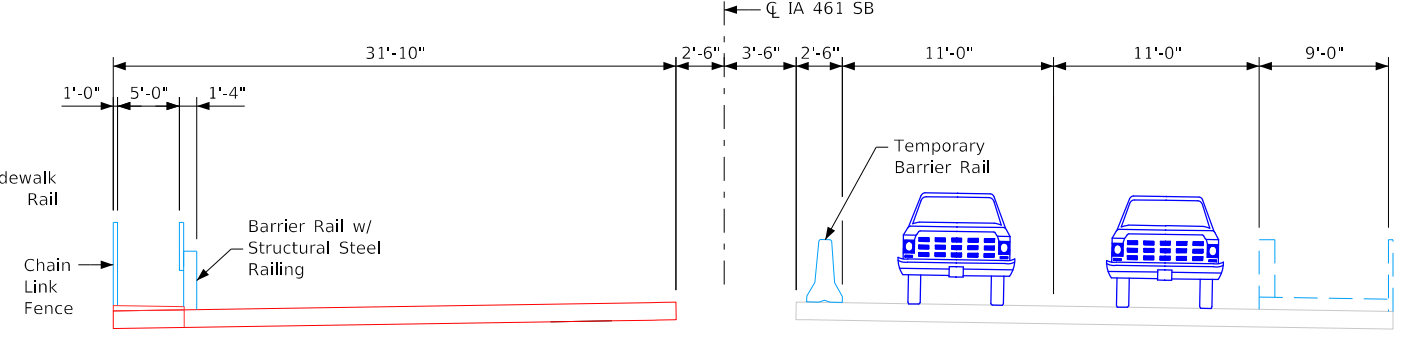
Excavation quantity calculated from grading surface.

**ARTICULATED CONCRETE BLOCK MAT
EROSION PROTECTION PLAN AND DETAILS**

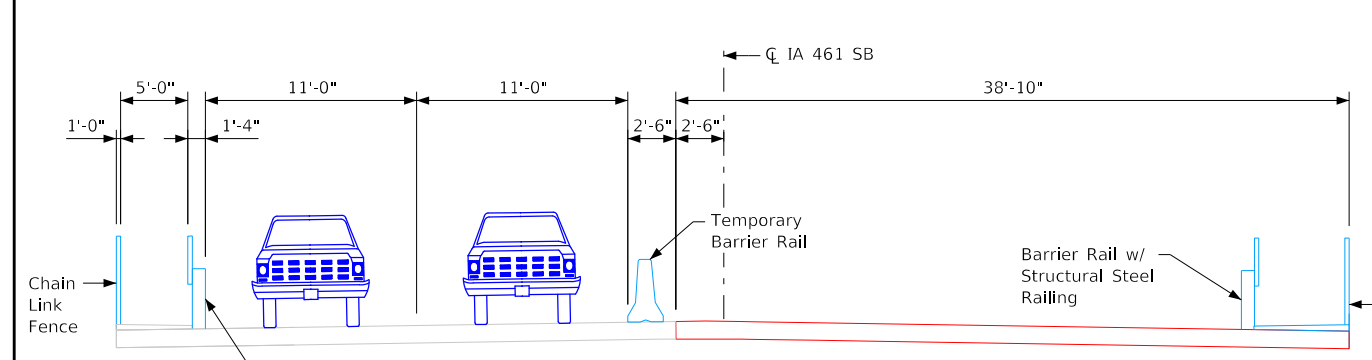
Design For 5° Skew (L.A.)
**194'-6" X 54'-0" CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 7' EAST
 SIDEWALK AND 5' WEST SIDEWALK
 CONCRETE BLOCK MAT DETAILS**
 STA. 36+40.15 (Q IA 461 SB) Turn-in Date: November 2022
Scott County
 IOWA DEPARTMENT OF TRANSPORTATION
 Design No. 225 Design Sheet No. 3 of 4 FHWA No. 047211



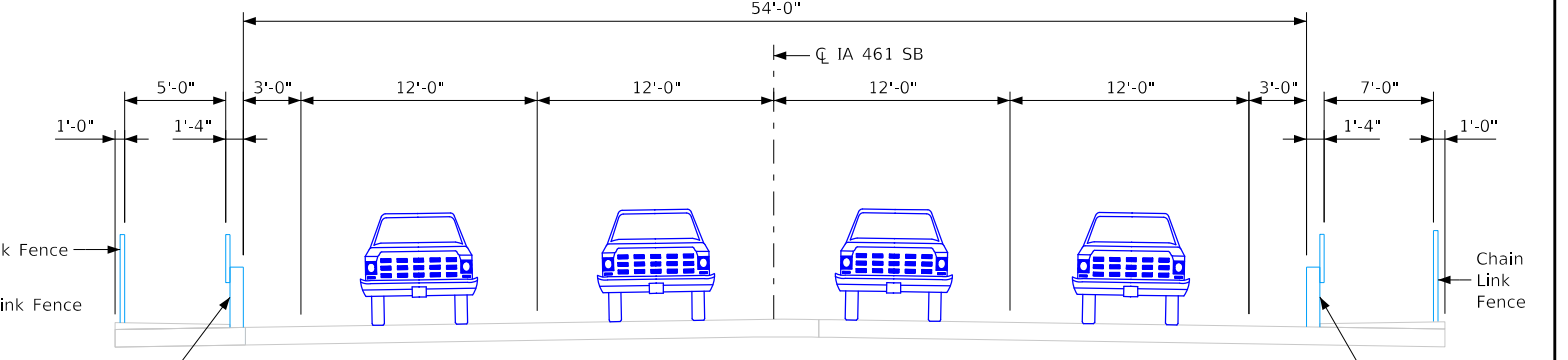
EXISTING TYPICAL SECTION
(LOOKING NORTH)



STAGE 1
(LOOKING NORTH)



STAGE 2
(LOOKING NORTH)



FINAL
(LOOKING NORTH)

Driving/Sidewalk Surface
 Under Construction
 All Sections Looking North

Design For 5° Skew (L.A.)
**194'-6" X 54'-0" CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 7' EAST
 SIDEWALK AND 5' WEST SIDEWALK
 STAGING DETAILS**
 STA. 36+40.15 (CL IA 461 SB) Turn-In Date: November 2022
Scott County
 IOWA DEPARTMENT OF TRANSPORTATION
 Design No. 225 Design Sheet No. 4 of 4 FHWA No. 047211

CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature	Design Color No.	Feature
Aggregate			
(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
(8)	Revetment Class A	Substrata	
(6)	Revetment Class B	(128)	Boulder Substrata
(62)	Revetment Class C	(209)	Boulder Removed Substrata
(188)	Revetment Class D	(48)	Broken Weathered Substrata
(28)	Revetment Class E	(210)	Broken Weathered Removed Substrata
(12)	Shoulder Special Backfill	(3)	Core Out Substrata
(12)	Special Backfill	(195)	Core Out Remove and Replace Substrata
(20)	Subbase	(115)	Core Out Remove Only Substrata
(20)	Subbase Lower	(203)	Existing Pavement Substrata
(20)	Subbase Upper	(200)	Existing Pavement Remove and Replace Substrata
(118)	Subgrade Treatment	(184)	Existing Pavement Remove Only Substrata
Asphalt			
(207)	HMA Base Course	(6)	Loam Substrata
(207)	HMA Interim Course	(211)	Loam Removed Substrata
(207)	HMA Surface Course	(80)	Rock Substrata
Concrete			
(0)	Barrier Concrete	(212)	Rock Removed Substrata
(0)	Barrier Concrete Footing	(4)	Select Sand Substrata
(0)	Curb Gutter	(214)	Select Sand Removed Substrata
(48)	Flowable Mortar	(3)	Shale Substrata
(0)	Median Concrete	(215)	Shale Removed Substrata
(0)	PCC Pavement	(10)	Topsoil Substrata
(0)	Sidewalk	(4)	Topsoil Remove and Replace Substrata
		(2)	Topsoil Remove Only Substrata
Shoulder			
(209)	Shoulder HMA	Unsuitable / Waste	
(0)	Shoulder PCC	(3)	Unsuitable Type A
(6)	Shoulder Granular	(216)	Unsuitable Type A Removed
Existing			
(0)	Existing Pavement	(13)	Unsuitable Type B
Structural			
(3)	Bridge	(217)	Unsuitable Type B Removed
(21)	Guardrail	(11)	Unsuitable Type C
(112)	Noise Wall	(218)	Unsuitable Type C Removed
(112)	Noise Wall Footing	(3)	Waste
(112)	Retaining Wall Back	(219)	Waste Removed
(112)	Retaining Wall Back Excavate	Trigger Switches	
(112)	Retaining Wall Face	(27)	Do Not Construct
(112)	Retaining Wall Front Excavate		
(112)	Retaining Wall Front Footing		
(112)	Retaining Wall MSE Gutter		
(112)	Retaining Wall Reinforced Earth		

NOTES:

Text

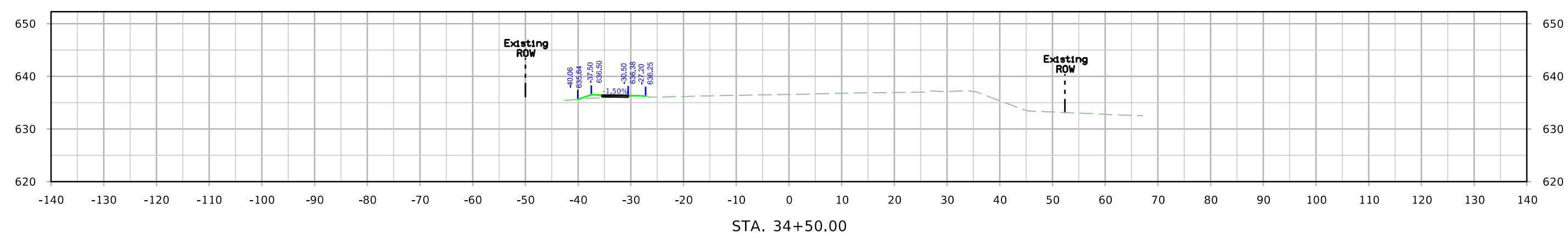
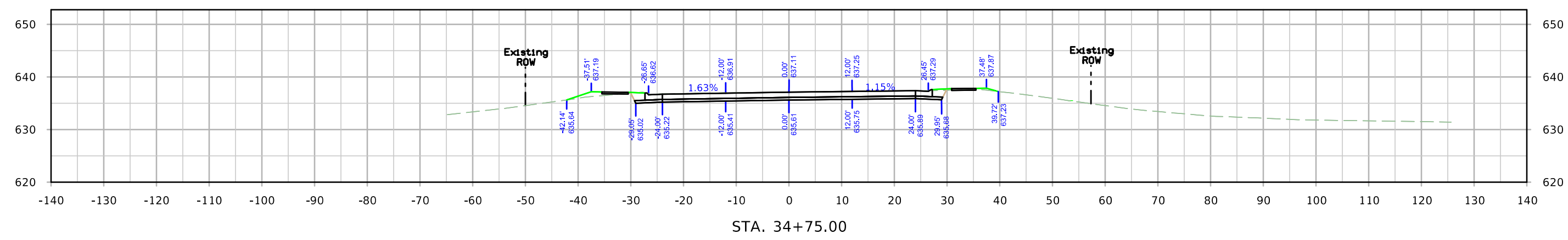
NOTES:

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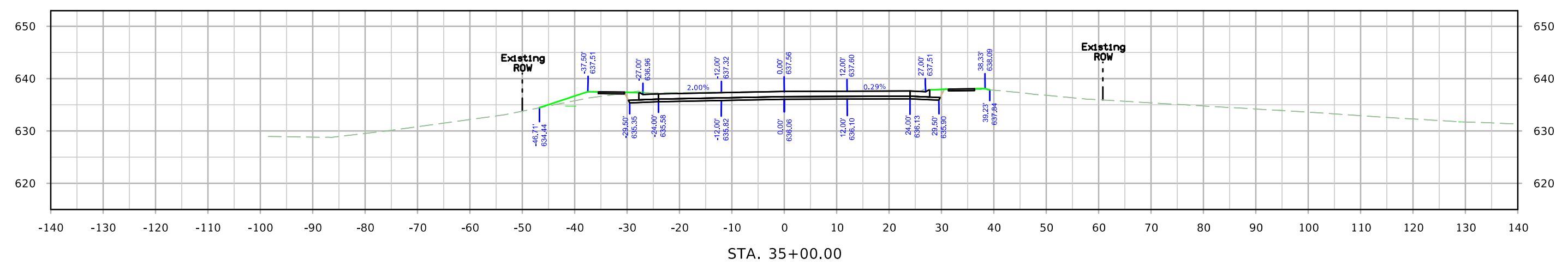
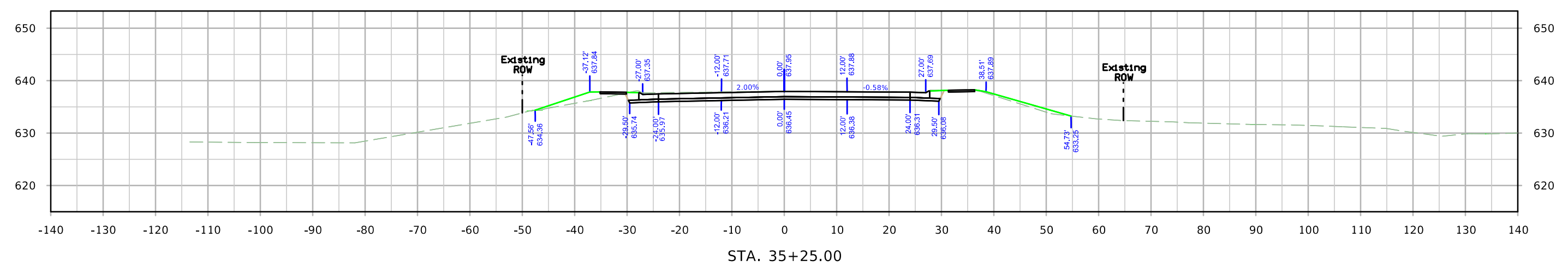
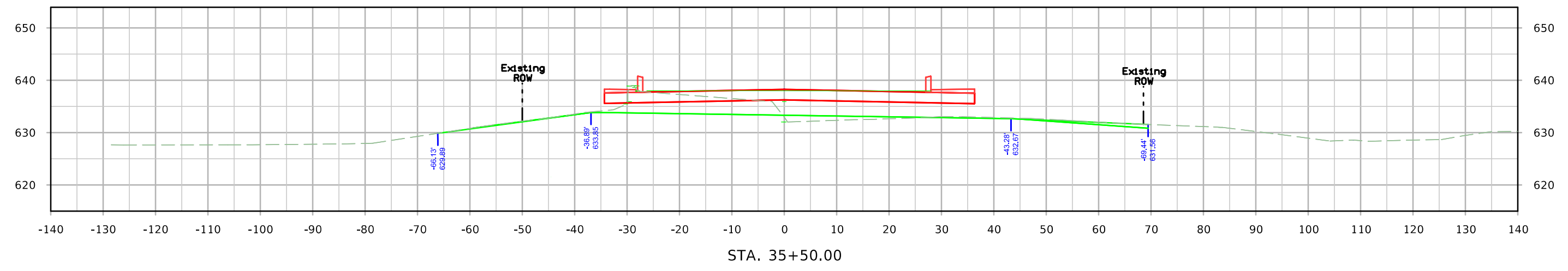
CROSS SECTIONS LEGEND AND INFORMATION SHEET

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

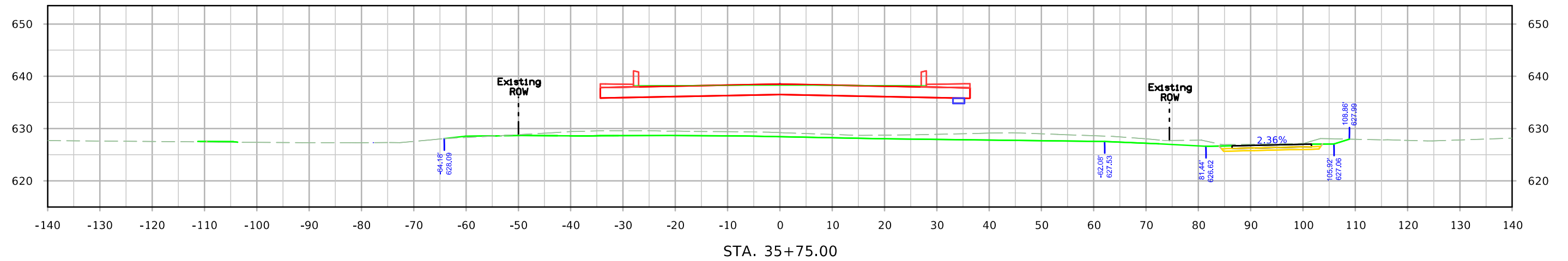
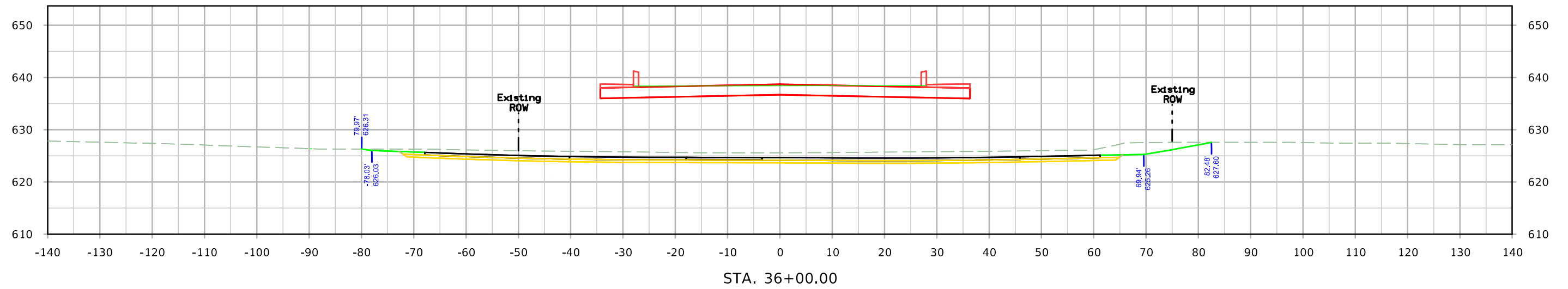
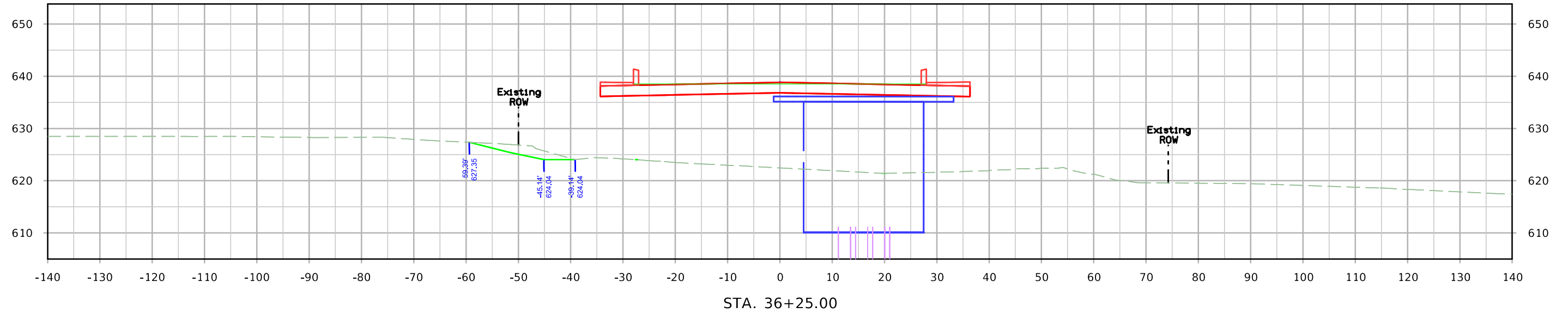
ML - IA 461 SB



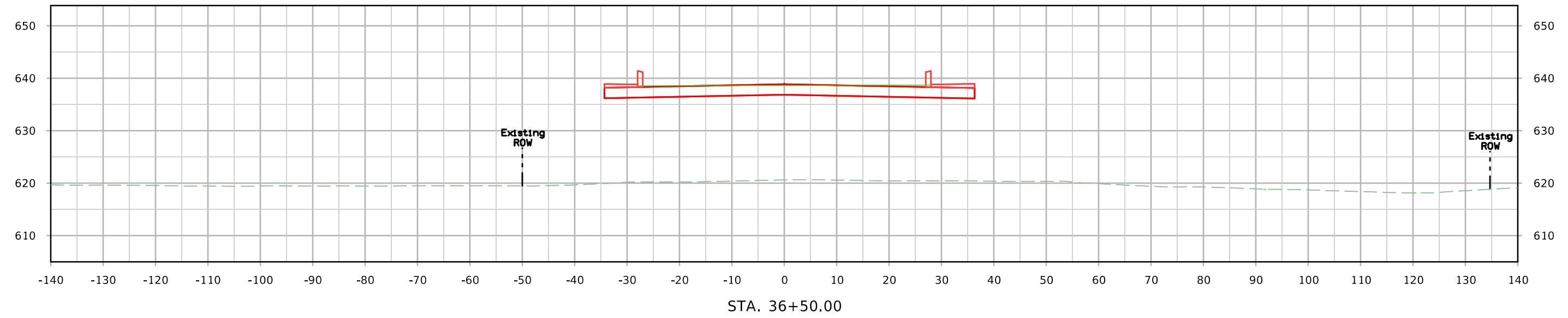
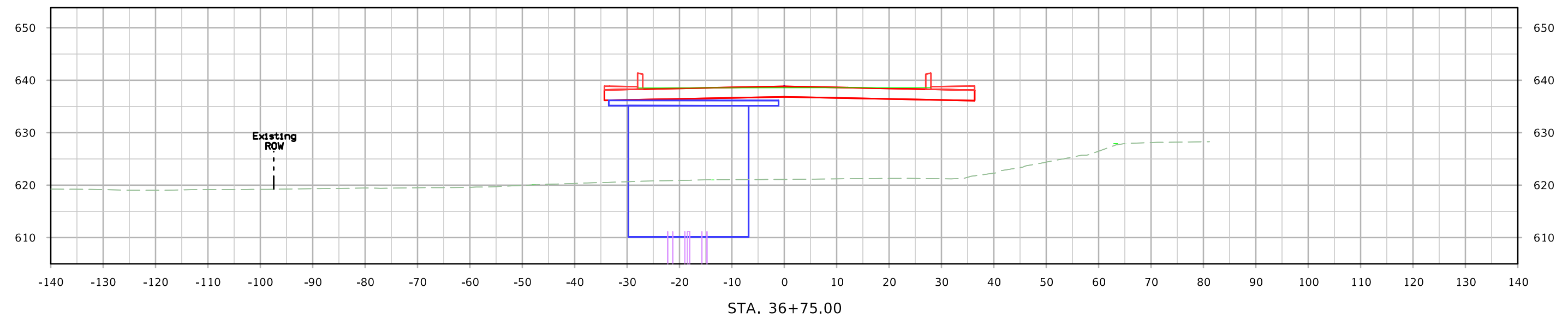
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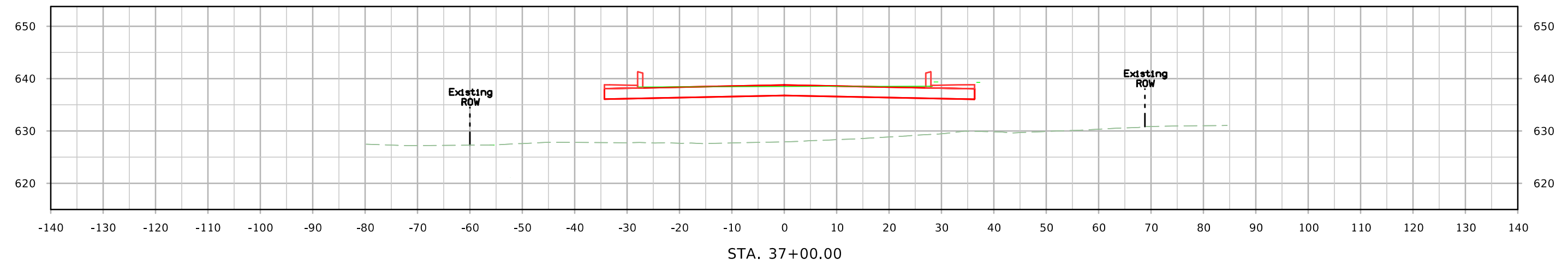
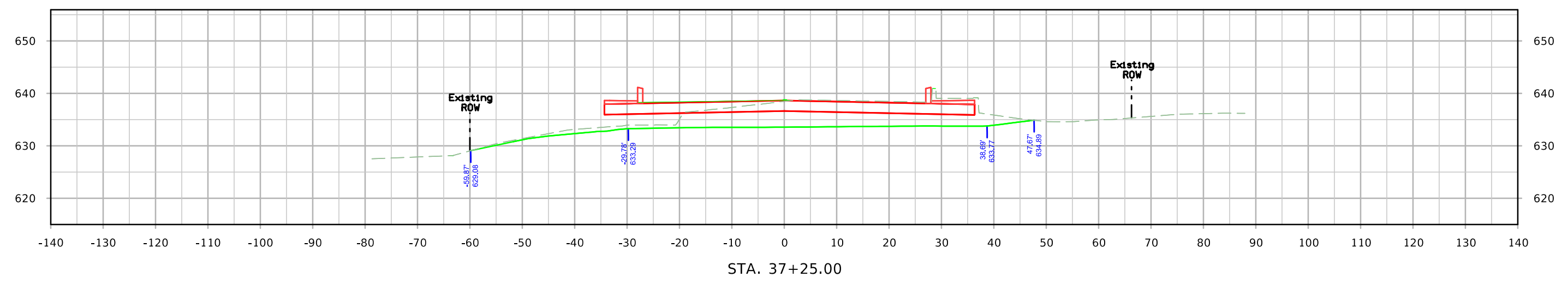
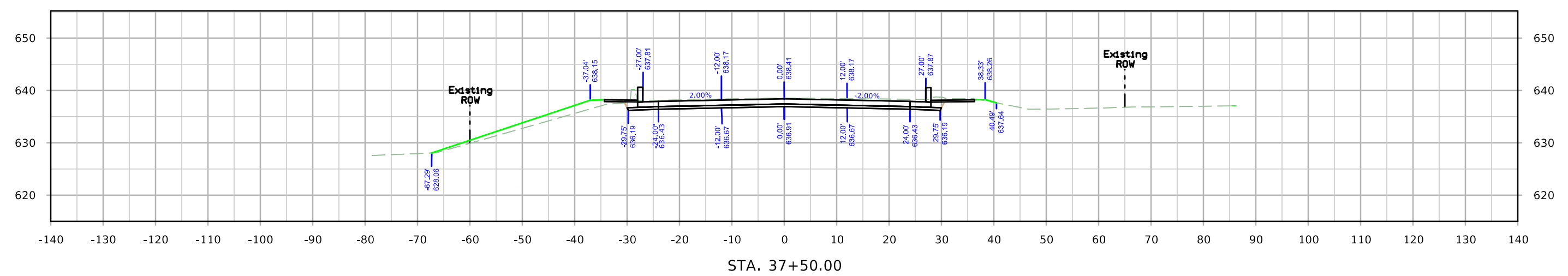
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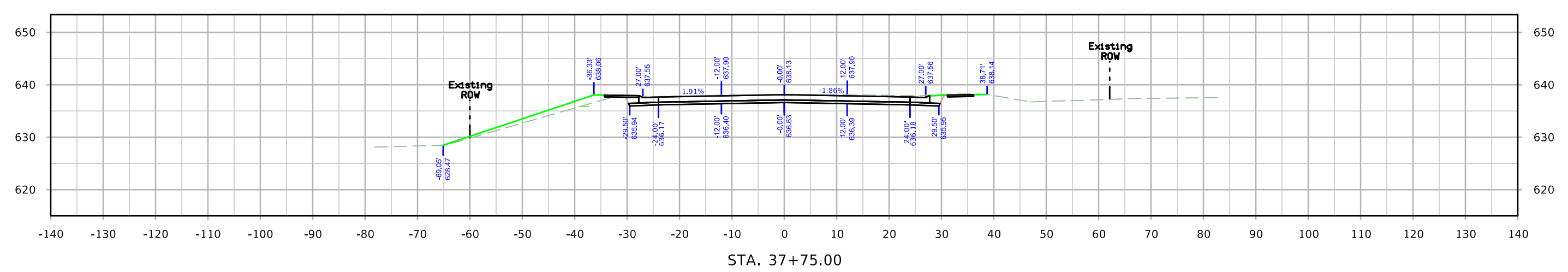
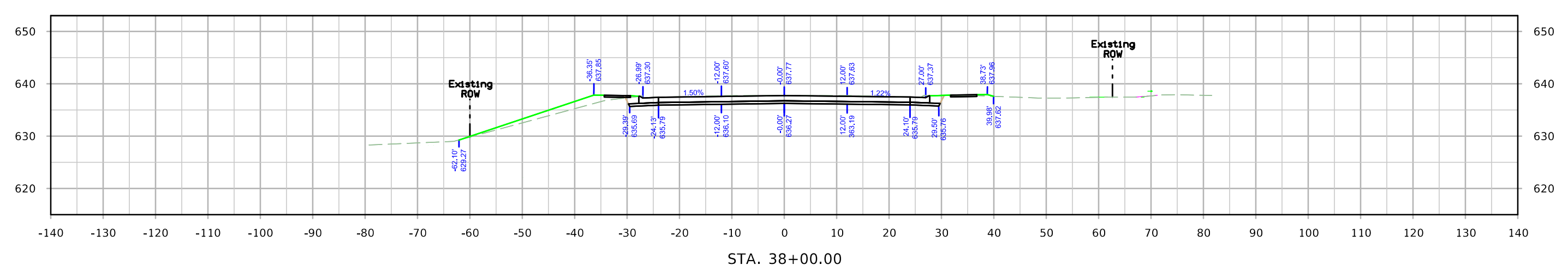
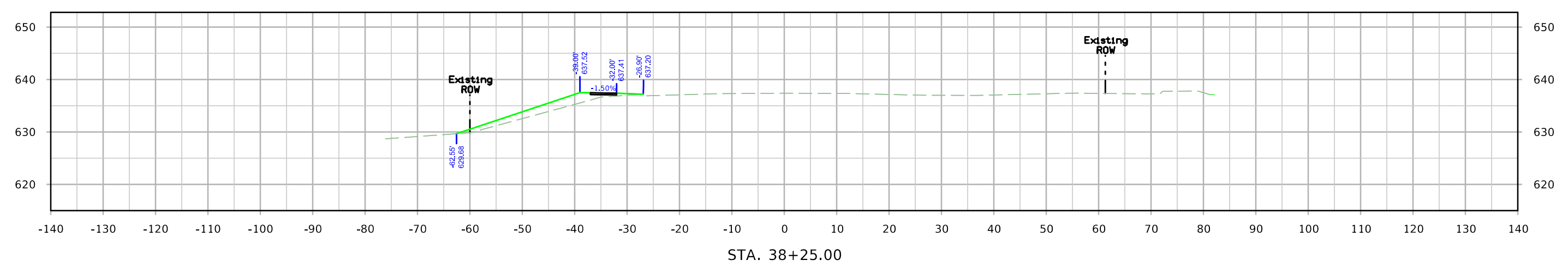
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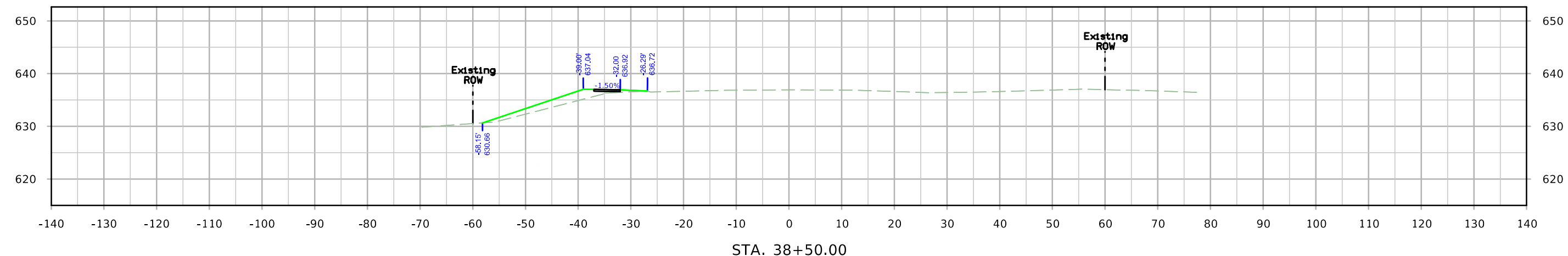
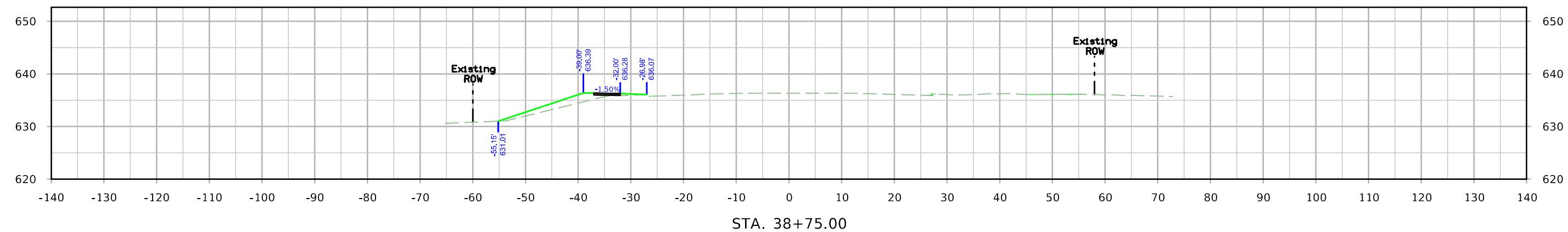
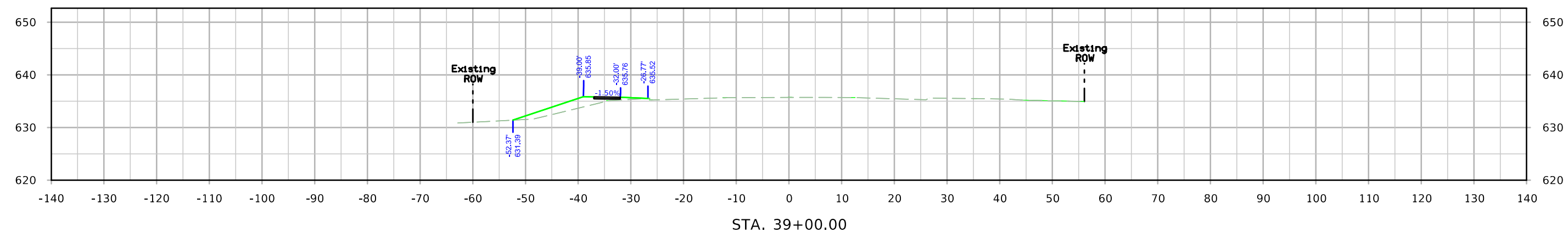
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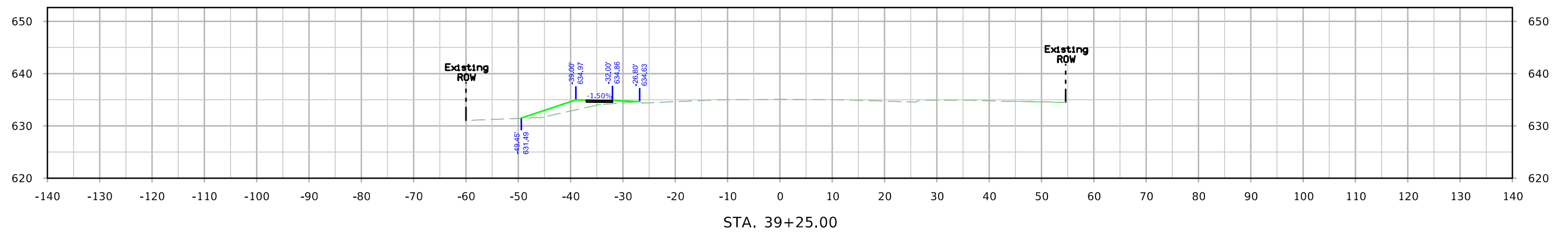
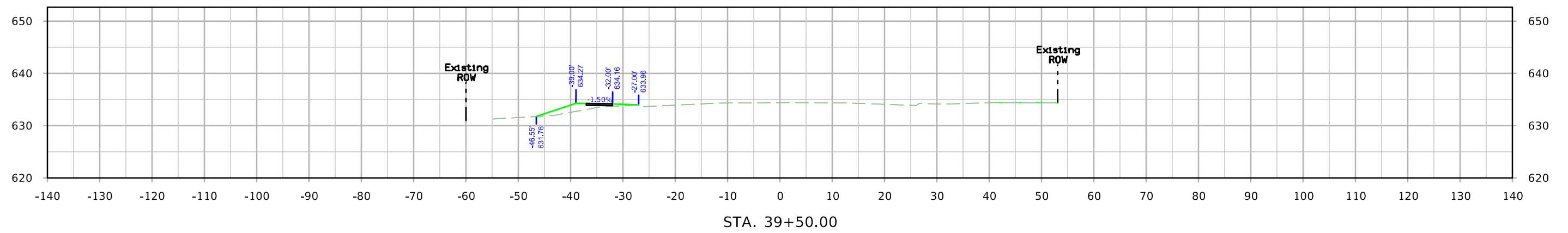
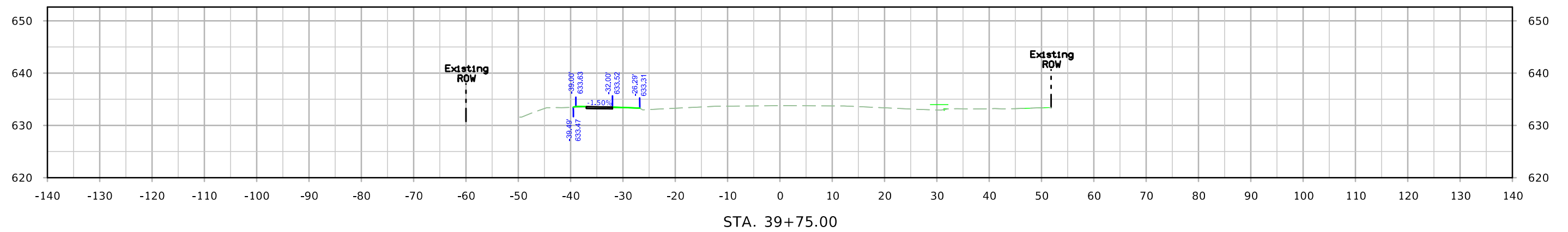
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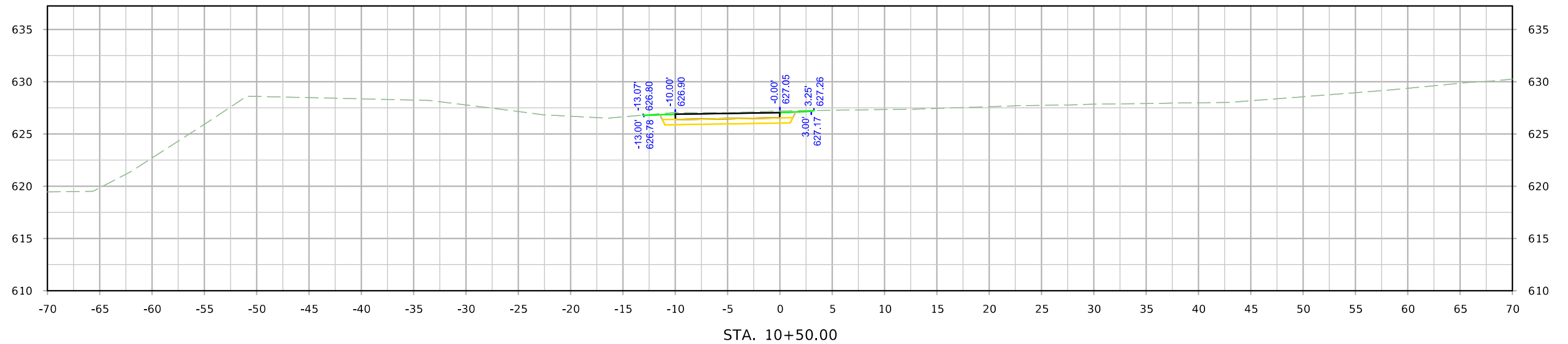
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ML - IA 461 SB



Duck Creek Parkway Trail



FILE NO. 32279

ENGLISH

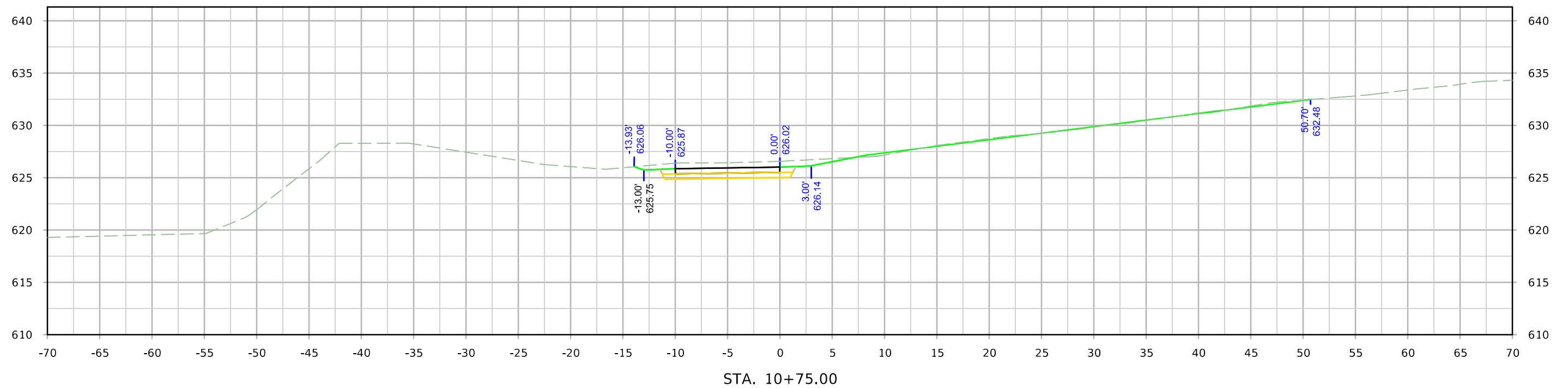
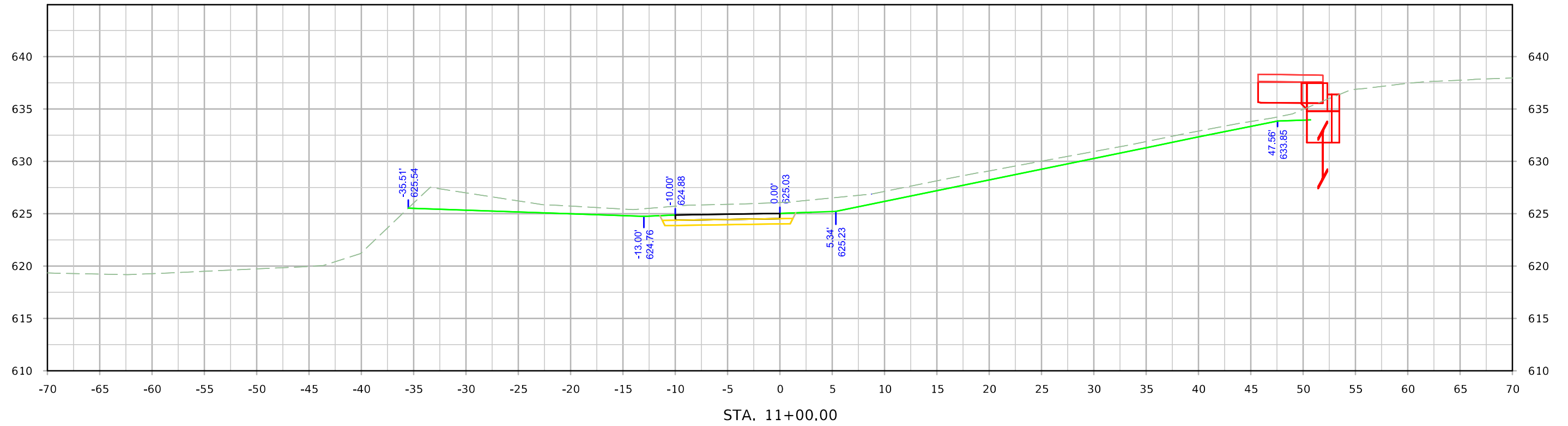
DESIGN TEAM HNTB

SCOTT COUNTY

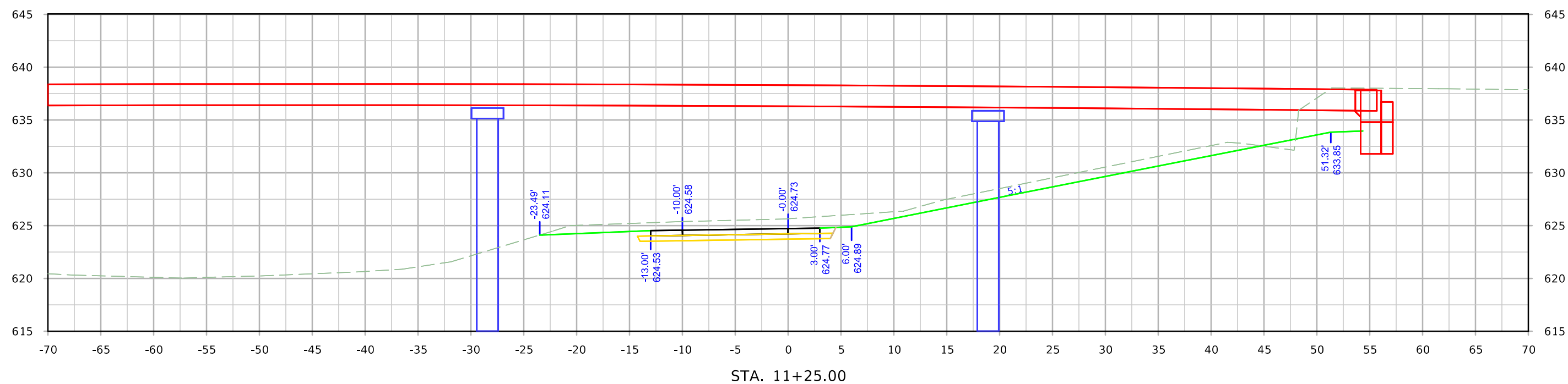
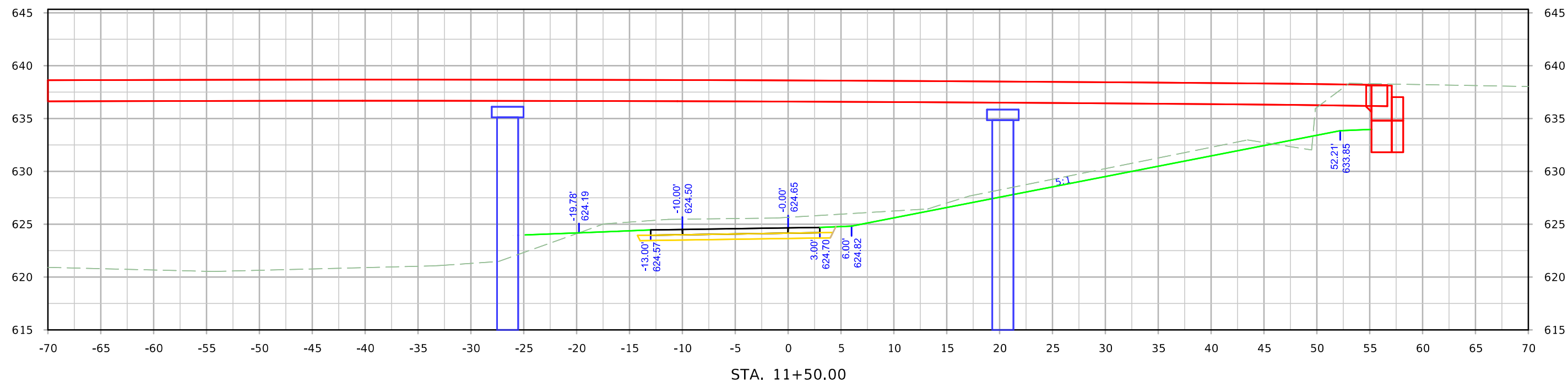
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SHEET NUMBER X.1

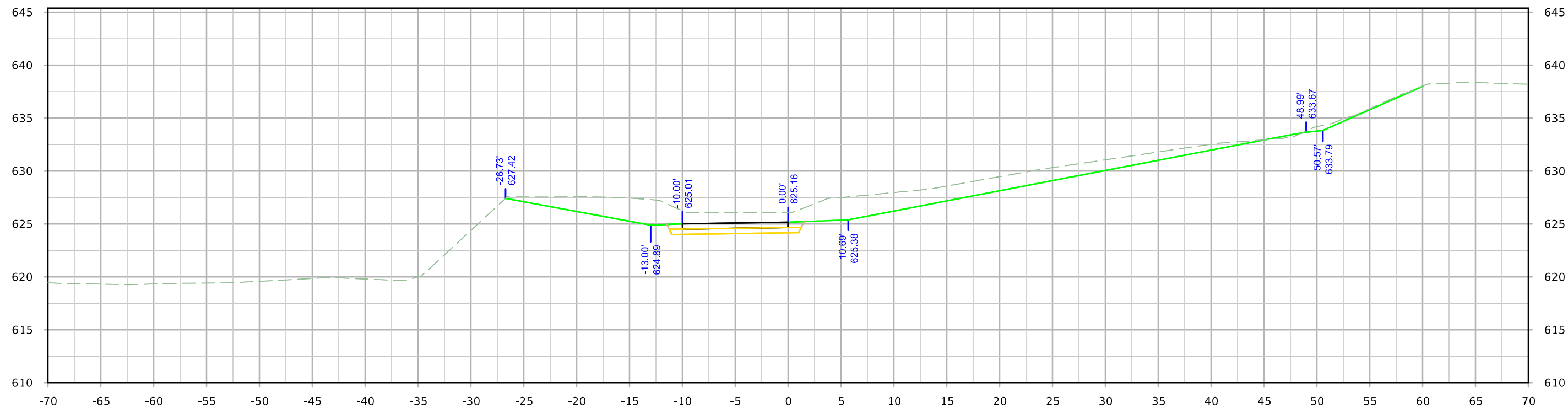
Duck Creek Parkway Trail



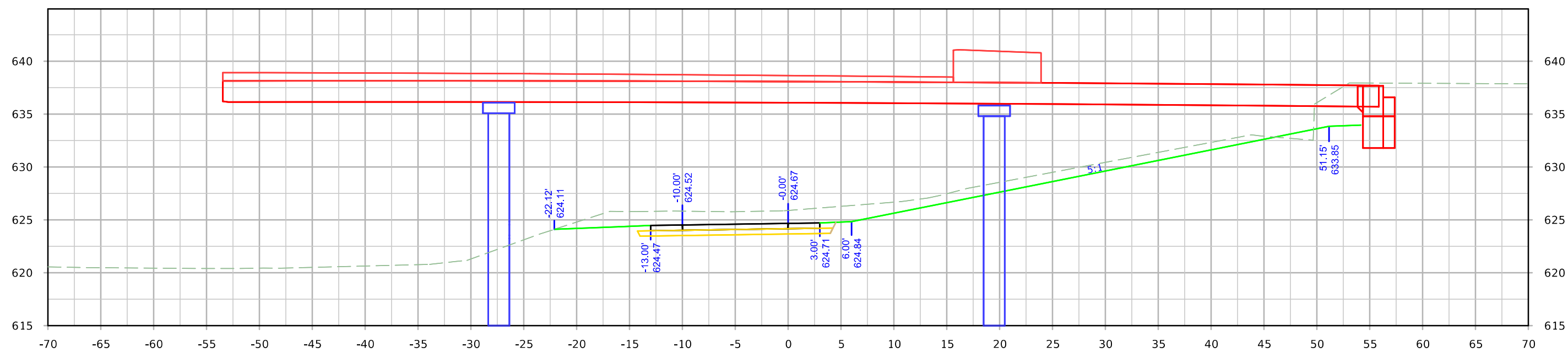
Duck Creek Parkway Trail



Duck Creek Parkway Trail



STA. 12+00.00



STA. 11+75.00

Duck Creek Parkway Trail

