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* A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
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C.1	Estimated Project Quantities
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Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

**PRIMARY ROAD SYSTEM
WAYNE COUNTY
PPCB BRIDGE REPLACEMENT**

US 65 Over Caleb Creek, 2.0 Miles S. of Co. Rd. J46

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 No. A.02

REVISIONS

TOTAL
26
PROJECT IDENTIFICATION NUMBER
18-93-065-010
PROJECT NUMBER
BRF-065-1(32)--38-93
R.O.W. PROJECT NUMBER
NHSN-065-1(33)--2R-93

DESIGN DATA RURAL			
2022	AADT	1,100	V.P.D.
2042	AADT	1,100	V.P.D.
2042	DHV	120	V.P.H.
	TRUCKS	22	%
	Total		
	Design ESALs	--	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Michael J. Janecek	Primary Signature Block
V.1	Phillip M. Harpole	Hydraulic Design

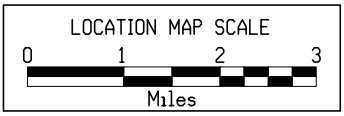
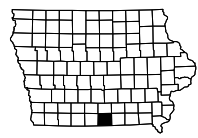
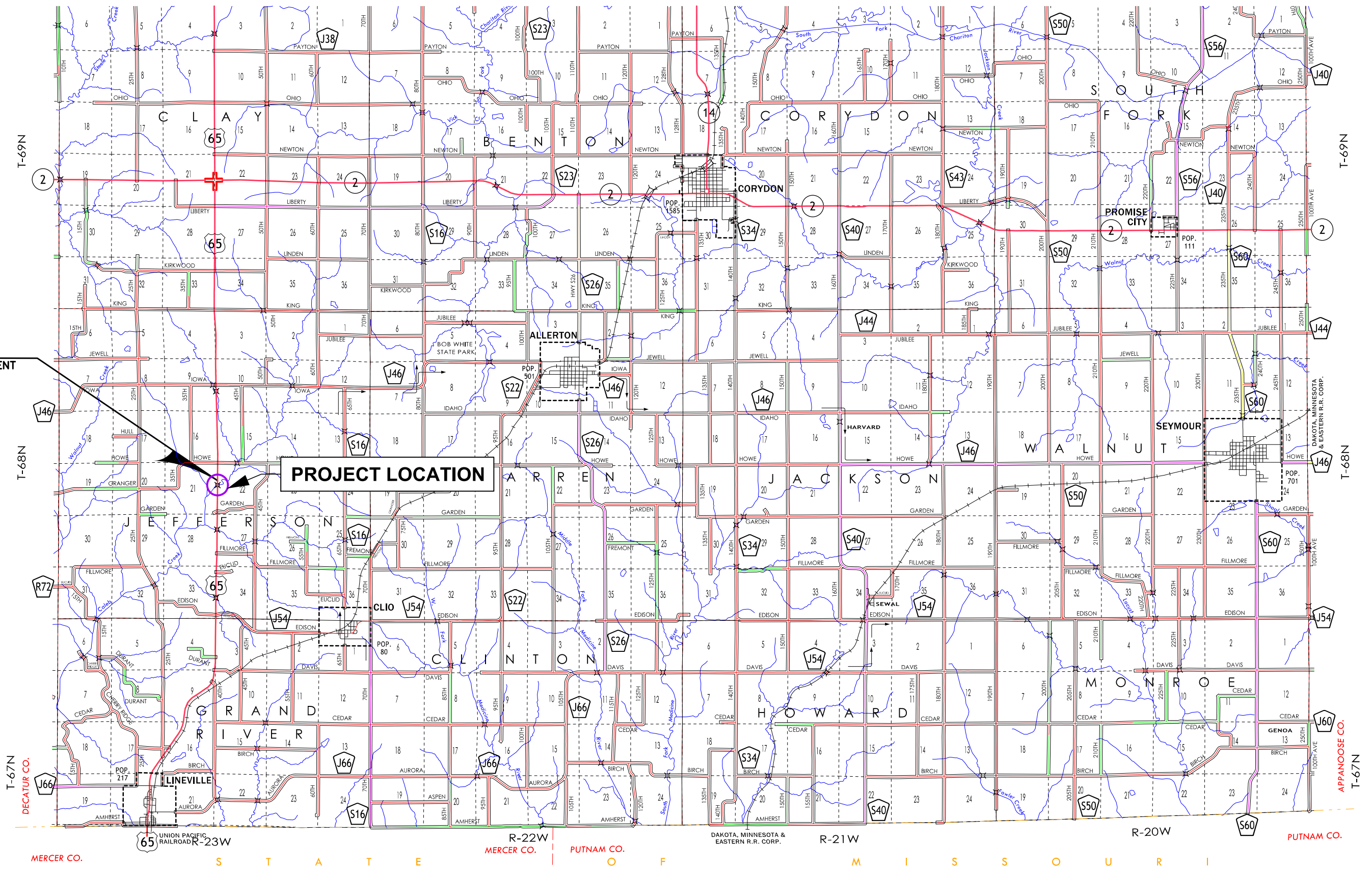
D4 PLAN – August 23, 2022

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN – November 20, 2020

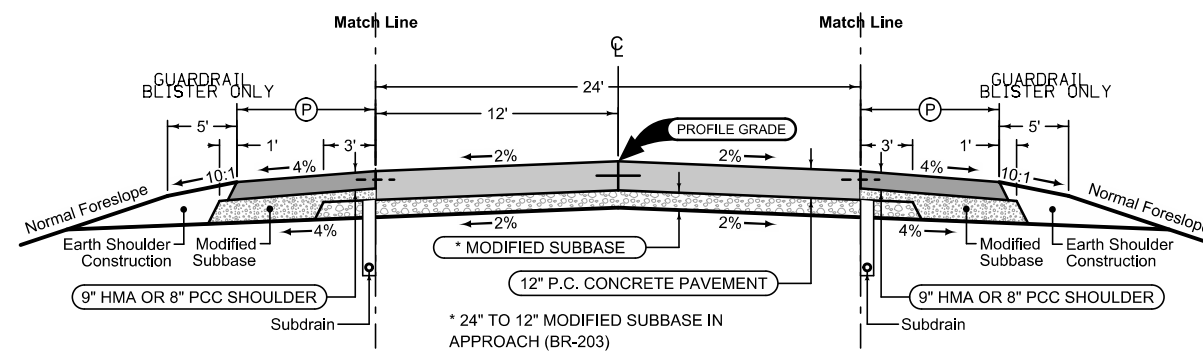
PROJECT LOCATION
 US 65 BRIDGE REPLACEMENT
 STA.: 479+00.00
 NEW FHWA NO.: 51901
 MAINT. NO.: 9307.OS065
 MP: 7.0



Paved Shoulder at Guardrail

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

2_P_Guard_ 10-17-17		
STATION TO STATION	(P)	Feet
476+84.18	478+01.50	VARIES
479+98.50	481+15.82	VARIES



Mainline Jointing:
 Transverse joints: CD at 20' spacing
 Longitudinal joint: L-2

2P_ 10-19-10		
ROAD	STATION TO STATION	(P)
ROAD	476+84.18	477+21.50
APPROACH	477+21.50	478+01.50
APPROACH	479+98.50	480+78.50
ROAD	480+78.50	481+15.82

Paved Shoulder at Guardrail

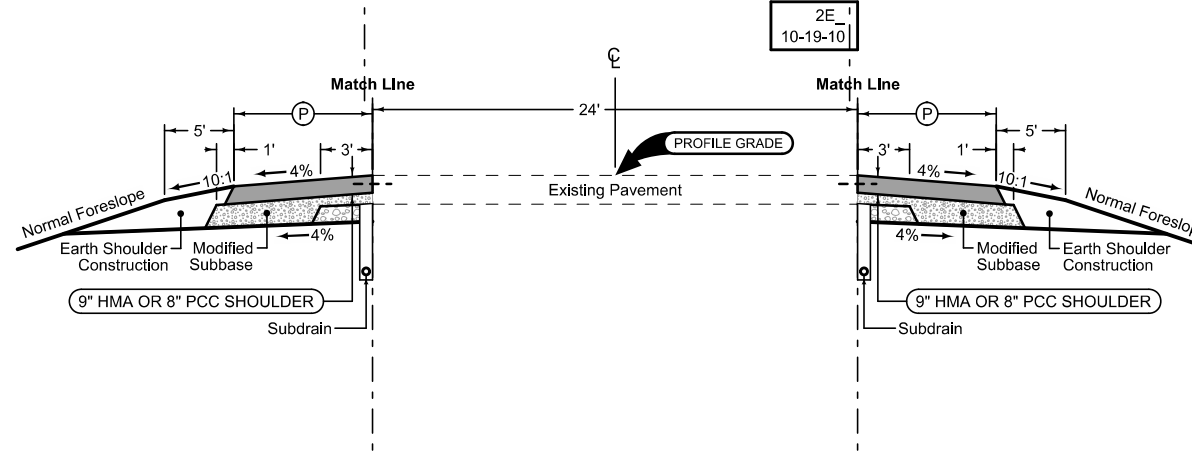
PCC Shoulder Jointing:
 Longitudinal joint: BT-1 or BT-5
 Transverse joints: C at mainline spacing
 HMA Shoulder Jointing:
 Longitudinal joint: B

2_P_Guard_ 10-17-17		
STATION TO STATION	(P)	Feet
476+84.18	478+01.50	VARIES
479+98.50	481+15.82	VARIES

Paved Shoulder at Guardrail

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

2_P_Guard_ 10-17-17		
STATION TO STATION	(P)	Feet
481+15.82	481+28.17	VARIES



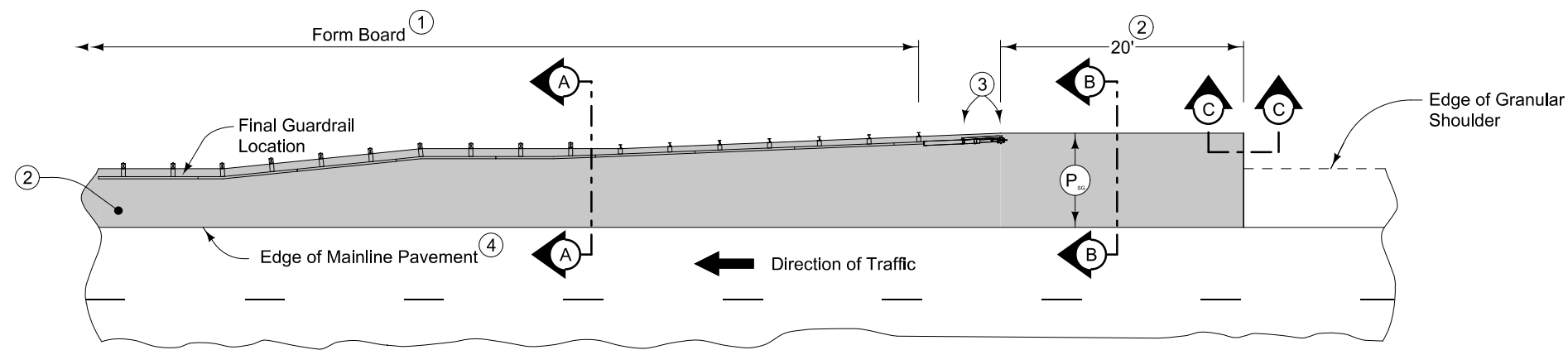
Paved Shoulder at Guardrail

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

2_P_Guard_ 10-17-17		
STATION TO STATION	(P)	Feet
476+71.83	476+84.18	VARIES

See Tab 100-24 or 100-25 for pavement quantities.
 See Tab 112-9 for shoulder quantities.

US 65



PLAN VIEW

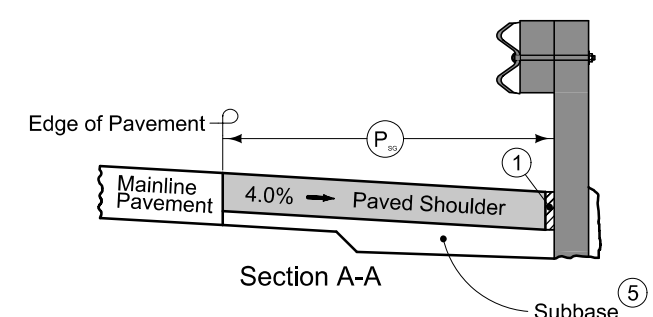
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

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.

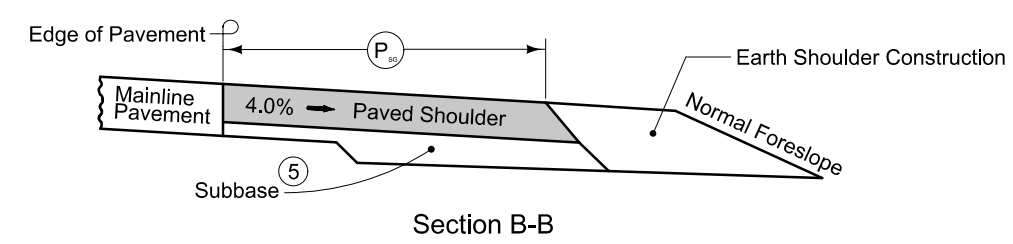
Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

- ① PCC option only: 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 'KT-1 joint for PCC shoulder. 'B' joint for HMA shoulder.
- ⑤ Refer to other details in the plan.

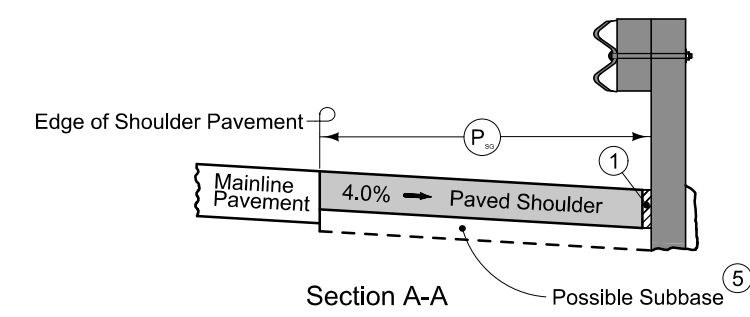


Section A-A

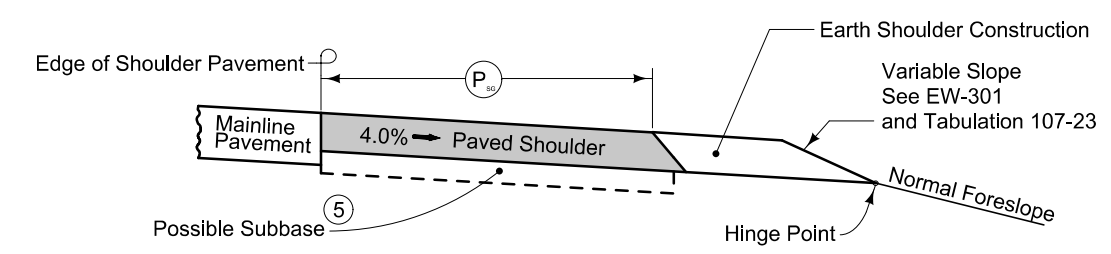


Section B-B

NEW CONSTRUCTION

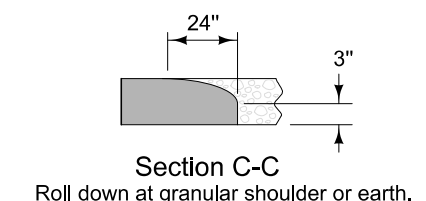


Section A-A



Section B-B

EXISTING SHOULDER



PAVED SHOULDER AT GUARDRAIL
(GRANULAR SHOULDER ADJACENT TO MAINLINE)

SURVEY SYMBOLS

- WC Wild Card (Misc. Field Shot)
- △ PI Tangent Point
- ▲ SCR Section Corner
- + REF Reference Tie Point
- CON Concrete or A/C Slab
- RIIP Rip-Rap
- BL Topo Breakline
- SBR Size of Bridge
- GR Ground Shot
- GDL Guard Rail Steel
- LIN Miscellaneous Line
- EP Edge of Paved Roads (ML or SR)
- BRG Bridge
- BD Bridge Deck
- BCL Bridge Centerline
- CP Control Point
- BNK Stream Bank
- DU Centerline Draw or Stream (Up)
- TLNL Tree Line Left
- BLS Bridge Low Steel
- TOP Top of Bridge Pier
- FW Wire Fence
- C Centerline BL of Road (ML or SR)
- SNP Unpaved Shoulder
- CU Back of Curb
- GU Gutter In Front of Curb
- D Centerline Draw or Stream (Down)
- SIGN SI Sign
- MM Mile Marker Post
- TLNR Tree Line Right
- TDC Tree Deciduous
- EHW Extreme High Water
- SP Stream Profile
- TW Top of Water
- EW Edge of Water
- PLG Location of General Photo

UTILITY LEGEND

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

(UTILITIES NOT WITHIN PROJECT AREA)

(CEC) CLARKE ELECTRIC COOPERATIVE
 DAN LANGE
 641-242-2173
 jkbill@cecnet.net

(VGR) GRAND RIVER MUTUAL TELEPHONE C
 Michael Jordison
 641-446-4212
 grmjordi@grm.net

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.	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
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

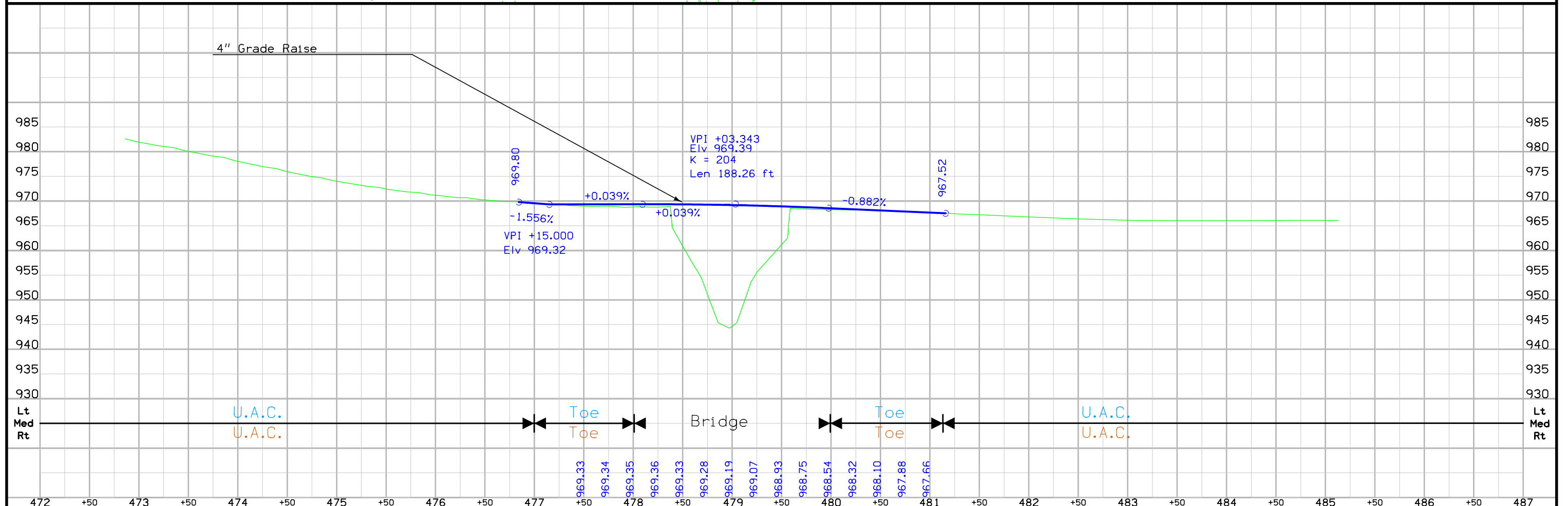
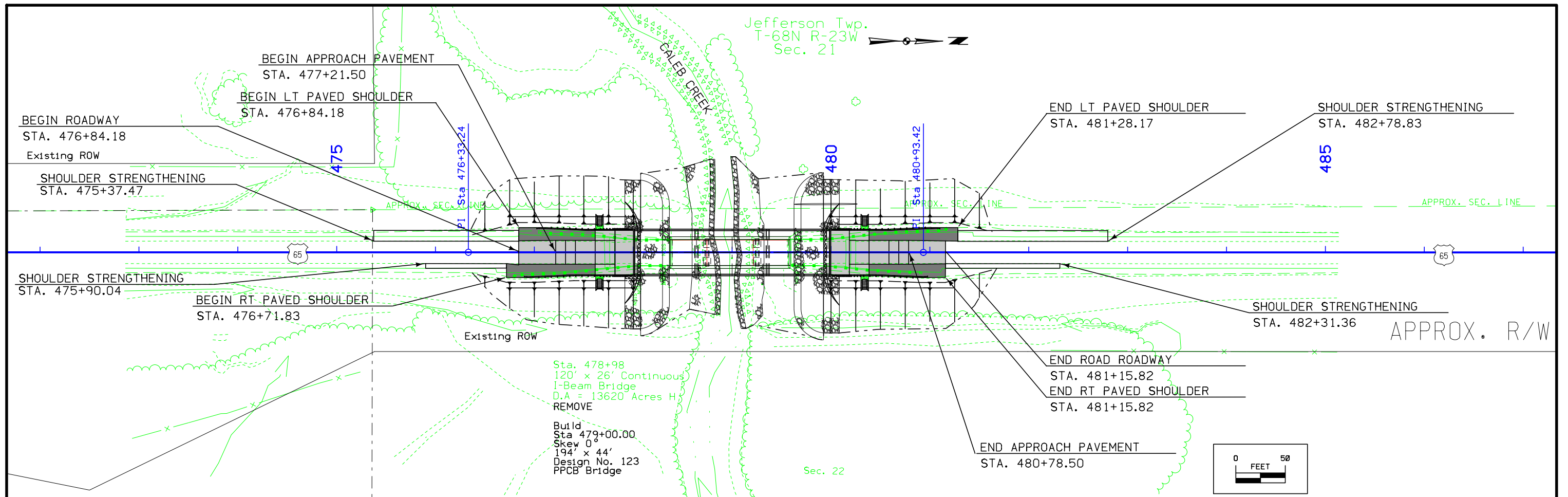
- ▲ Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- High Tension Cable Guardrail
- Sheet Pile
- ▨ Pavement Removal
- ▩ Clearing & Grubbing Area

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)



Survey Information

Wayne County
BRF-065-1(32)--38-93
Caleb Creek 2.0 mi S of Co Rd J46
18-93-065-010
Sap-760.1

Date(s) of Survey

Begin Date 02/26/2019
End Date 07/18/2019

General Information

Measurement units for this survey are US survey feet. This survey is for unspecified bridge work @ Caleb Creek, 2.0 mi S of Co Rd J46. Project datum and control information is provided by Design Survey Office. This project is a full field.

Vertical Control

Vertical Control was established on this project by 6 hour GPS static sessions. Vertical datum for this survey is relative to NAVD88. Geoid 12 B was used in processing. GRS80 Ellipsoidal Height was computed at project Pts. CP 1 and CP 2. Vertical control was checked with IARTN checks.

This survey observed AB Plan bench marks to compare to local ground control:

BM 479+61 AB Plans Project # 770 (4) Elevation 980.92
= BM # 500 Survey Elev. = 968.90

Horizontal Control

The project coordinate system for this survey is Iowa RCS Zone 12 (U.S. Survey Feet). This survey control is relative to IARTN reference stations. IARTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011). Coordinates were determined by conducting six hour static observations. Additional control points were placed throughout the project using a GNSS Base-Rover setups. A minimum of five observations were collected with 1 hour or greater time span between each observation.

Point Name	Northing	Easting	Elevation	Description
CP 1	6111045.419	22569792.5	997.191	FENO MONUMENT
CP 2	6115305.232	22569935.09	1056.095	FENO MONUMENT

Alignment Information

US Hwy 65

The horizontal alignment for this survey is created from As-built Plans Project # 770 (4). Survey stationing was equated to the Plan SE Cor. Sec. 21-68-23 @ Sta. 449+23.8 and run ahead without equation throughout the survey.

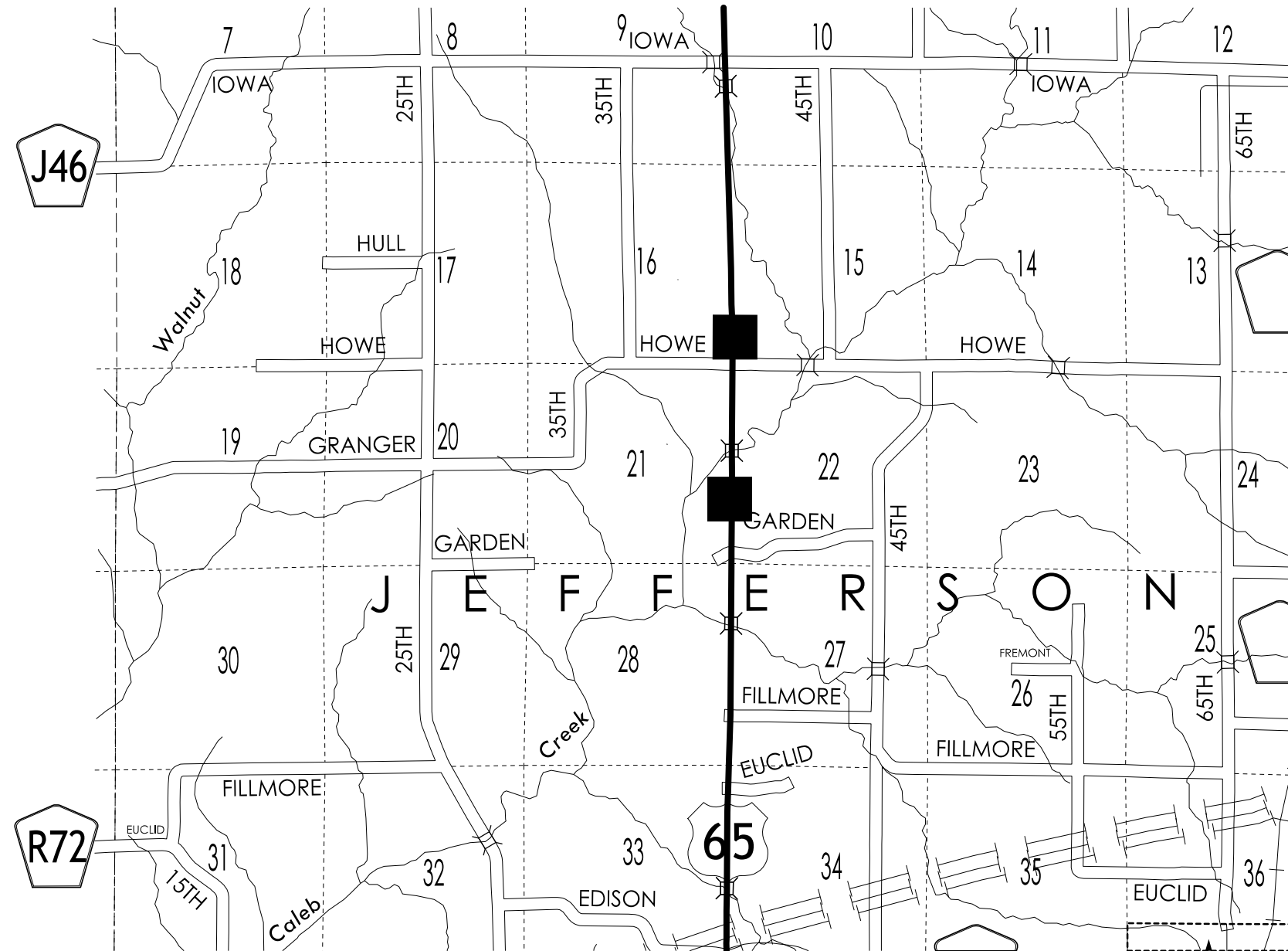
Survey stationing relates to as built plan stationing as follows:

SE Cor. Sec. 21-68-23 Sta. 449+23.8 As-built Plans Project No. 770 (4)
= PI Sta. 449+23.8 this survey

PI Sta. 511+47.9 As-built Plans Project No. 770 (4)
= PI Sta. 511+42.12 this survey

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

1a. Regional Coordinate System Zone 12

Coordinate listing from next sheet will be used with 1aRTN 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

Ia. Regional Coordinate System Zone 12

Name	Feature	Northing	Easting	Elevation	Description
CP 1	FENO	6111045.42	22569792.50	997.191	Feno 1 is .67 miles south of intersection of Howe Ave & US Hwy 65_104 ft. northwest of address sign 2574 US Hwy 65_ 63 ft. west of US Hwy 65_109 ft. north of a field entrance_24 ft. east of a fence_.6 ft. below ground.
CP 2	FENO	6115305.23	22569935.09	1056.095	Feno 2 is .14 miles north of intersection Howe Ave & US Hwy 65_60 ft. east of US Hwy 65_18 ft. west of a fence_99 ft. north of a power pole_.6 ft. below ground.

108-23A
08-01-08

TRAFFIC CONTROL PLAN

- 1) While bridge and approaches are being removed and replaced, traffic shall be maintained on US 65 at all times by staged construction with temporary signals allowing one lane of traffic.
- 2) Signage and devices shall be furnished, installed, maintained, and removed by Contractor.

108-26A
08-01-08

STAGING NOTES

- Stage 1:
Remove and replace west portion of roadway, approaches and bridge with traffic shifted to NB lane using temporary signals.
- Stage 2:
Remove and replace east half of roadway, approaches and complete bridge structure with traffic shifted to SB lane using temporary signals.
- Stage 3:
Remove temporary paving on west half of roadway and complete approach and roadway with US 65 traffic shifted to NB lane using temporary signals.

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
US 65	Both	Wayne	Bridge over Caleb Creek	River	Bridge		Width		11			

111-01
04-17-12

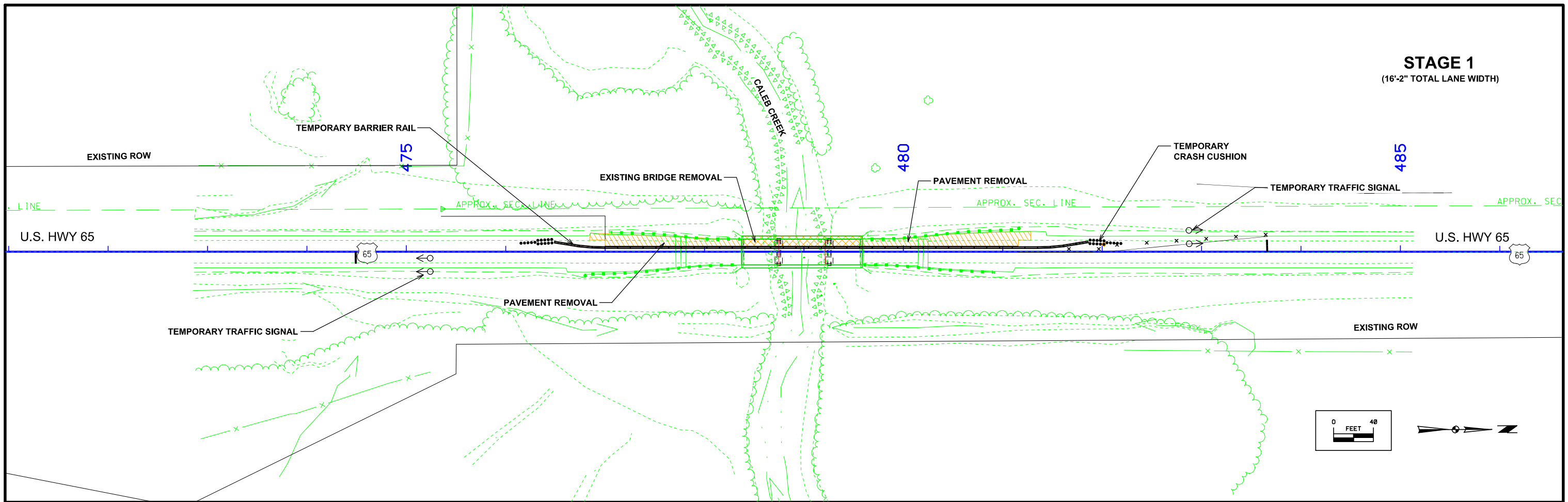
COORDINATED OPERATIONS

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	

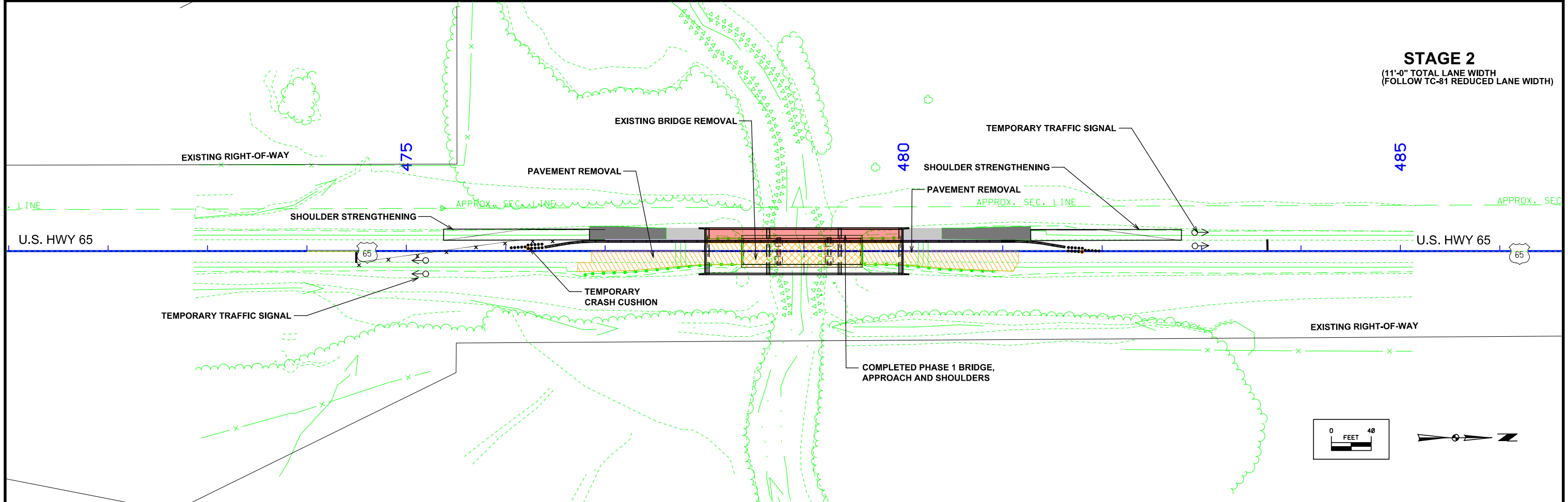
STAGE 1

(16'-2" TOTAL LANE WIDTH)

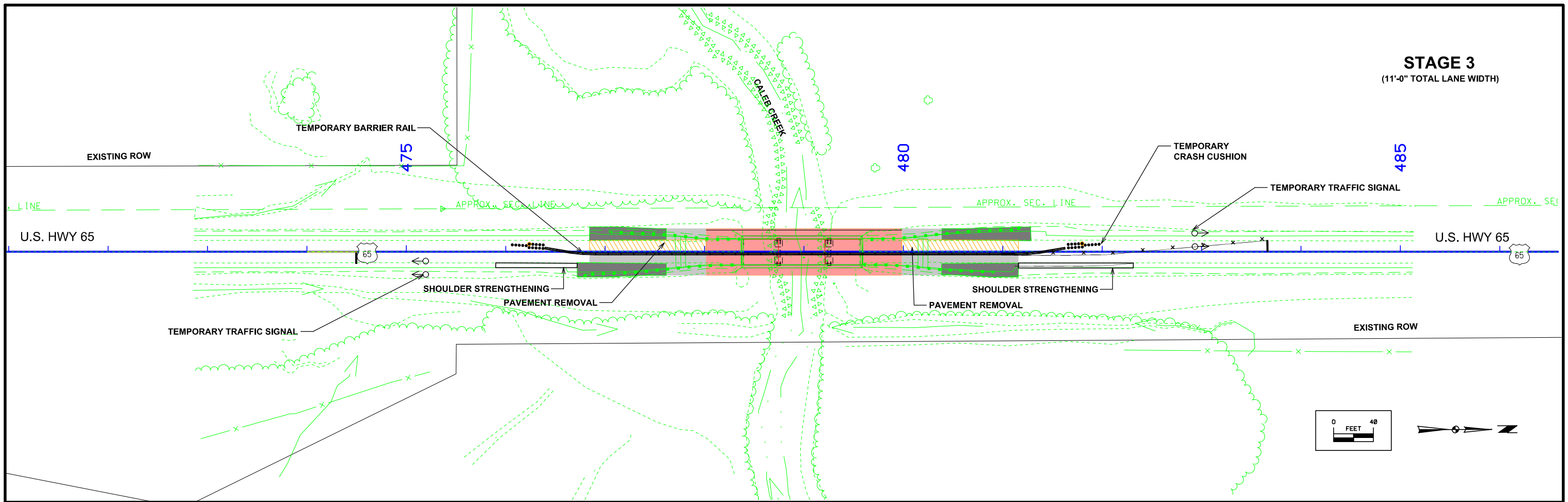


STAGE 2

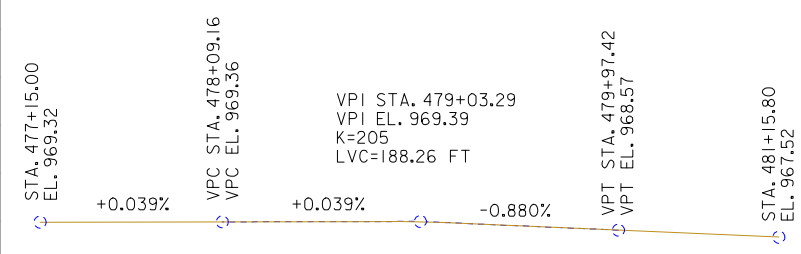
(11'-0" TOTAL LANE WIDTH
(FOLLOW TC-81 REDUCED LANE WIDTH))



STAGE 3
(11'-0" TOTAL LANE WIDTH)



980	EXISTING GRADE	CL. S. ABUT. CR BRG. ELEV. 969.33	CL. PIER 1 ELEV. 969.28	CL. PIER 2 ELEV. 968.98	CL. N. ABUT. CR BRG. ELEV. 968.54	980
970		TOP OF BERM ELEV.=963.37 PROPOSED GRADE		DESIGN H.W. ELEV.=957.8	TOP OF BERM ELEV.= 962.58	970
960	TOP OF BRIDGE DECK CROWN 0.03' BELOW PROFILE GRADE			BENCH ELEV. 954.50		960
950		BOTT. FTG. ELEV. 961.37		OPERATIONAL LOW BEAM	BOTT. FTG. ELEV. 960.58	950
940	PREBORE HOLES, 1'-4" DIA., BOTTOM EL. 951.37			REGULATORY LOW BEAM PRELIMINARY SCOUR ELEV. = 937.50	PREBORE HOLES, 1'-4" DIA., BOTTOM EL. 950.58	940
930	EROSION STONE ABOVE DESIGN HIGH WATER ELEV.			STREAMBED ELEV.=944.5		930
	CLASS E REVETMENT (2' THICK MIN.) UNDERLAIN WITH ENG. FABRIC	BOTTOM OF PIER ENCASEMENT EL. 941.50		VERIFY ELEVATIONS WHEN SOIL BORINGS ARE COMPLETE		



LONGITUDINAL SECTION ALONG CL. APPROACH ROADWAY

PROPOSED PROFILE GRADE US 65

UTILITIES LEGEND:

THERE ARE NO KNOWN UTILITIES AT THIS SITE.

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

HYDRAULIC DATA

DRAINAGE AREA = 19.9 SQ. MI.
 STREAM SLOPE = 13.3 FT./MI.
 AVG. LOW WATER STAGE = 945.4

Q₅₀ = 8660 CFS
 STAGE = 957.8 FT.
 REGULATORY LOW BEAM = 964.98
 BACKWATER = 1.5 FT.
 AVG. BRIDGE VELOCITY = 7.7 FPS

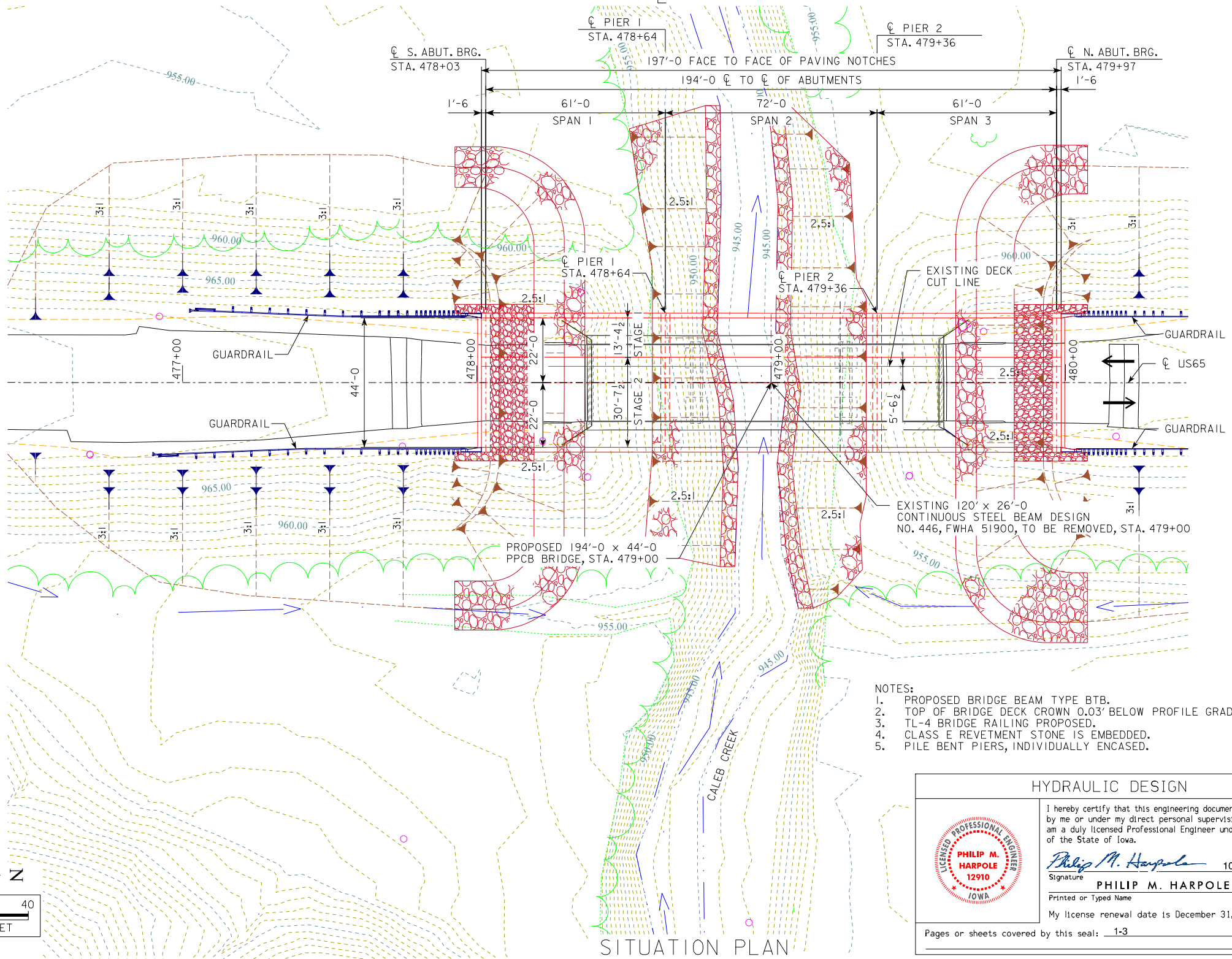
Q₁₀₀ = 10600 CFS
 STAGE = 958.5 FT.
 OPERATIONAL LOW BEAM = 964.33
 BACKWATER = 1.8 FT.
 AVG. BRIDGE VELOCITY = 9.7 FPS

Q₂₀₀ = 12710 CFS
 STAGE = 959.1 FT.
 CALCULATED DESIGN SCOUR = 937.5

Q₅₀₀ = 15250 CFS
 STAGE = 959.8 FT.
 CALCULATED CHECK SCOUR = 936.9
 ROADWAY OVERTOP = 966.1

TYPICAL BRIDGE SECTION

TYPICAL APPROACH SECTION



- NOTES:
1. PROPOSED BRIDGE BEAM TYPE BTB.
 2. TOP OF BRIDGE DECK CROWN 0.03' BELOW PROFILE GRADE.
 3. TL-4 BRIDGE RAILING PROPOSED.
 4. CLASS E REVETMENT STONE IS EMBEDDED.
 5. PILE BENT PIERS, INDIVIDUALLY ENCASED.

LOCATION TRAFFIC ESTIMATE

US65 OVER CALEB CREEK	2022 AADT	1100	V.P.D.
T-68N R-23W	2042 AADT	1100	V.P.D.
SECTION 21			
JEFFERSON TOWNSHIP	2042 DHV	120	V.P.H.
WAYNE COUNTY	TRUCKS	22	%
FHWA NO. 51901			
BRIDGE MAINT. NO. 9307.0S065			
LATITUDE 40.675746			
LONGITUDE -93.498178			

PRELIMINARY

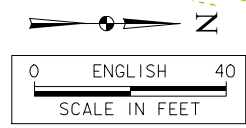
DESIGN FOR 0° SKEW
**194'-0 X 44'-0 PRETENSIONED
 PRESTRESSED CONCRETE BEAM BRIDGE**
 61'-0 END SPANS, 72'-0 INTERIOR SPAN
SITUATION PLAN
 STATION 479+00.00 (US65) OCTOBER, 2020
WAYNE COUNTY
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 1 OF 3 FILE NO. 31702 DESIGN NO. 123

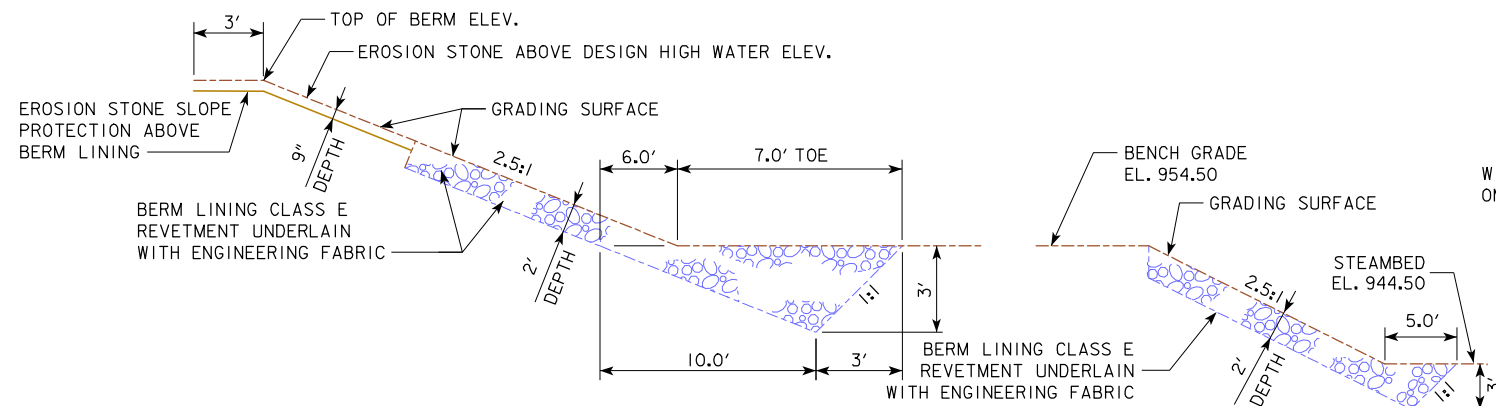
HYDRAULIC DESIGN

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.

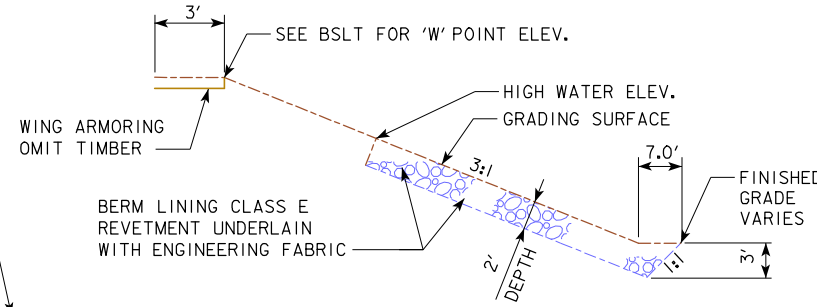
Philip M. Harpole 10-18-2020
 Signature Date
PHILIP M. HARPOLE
 Printed or Typed Name
 My license renewal date is December 31, 2021

Pages or sheets covered by this seal: 1-3





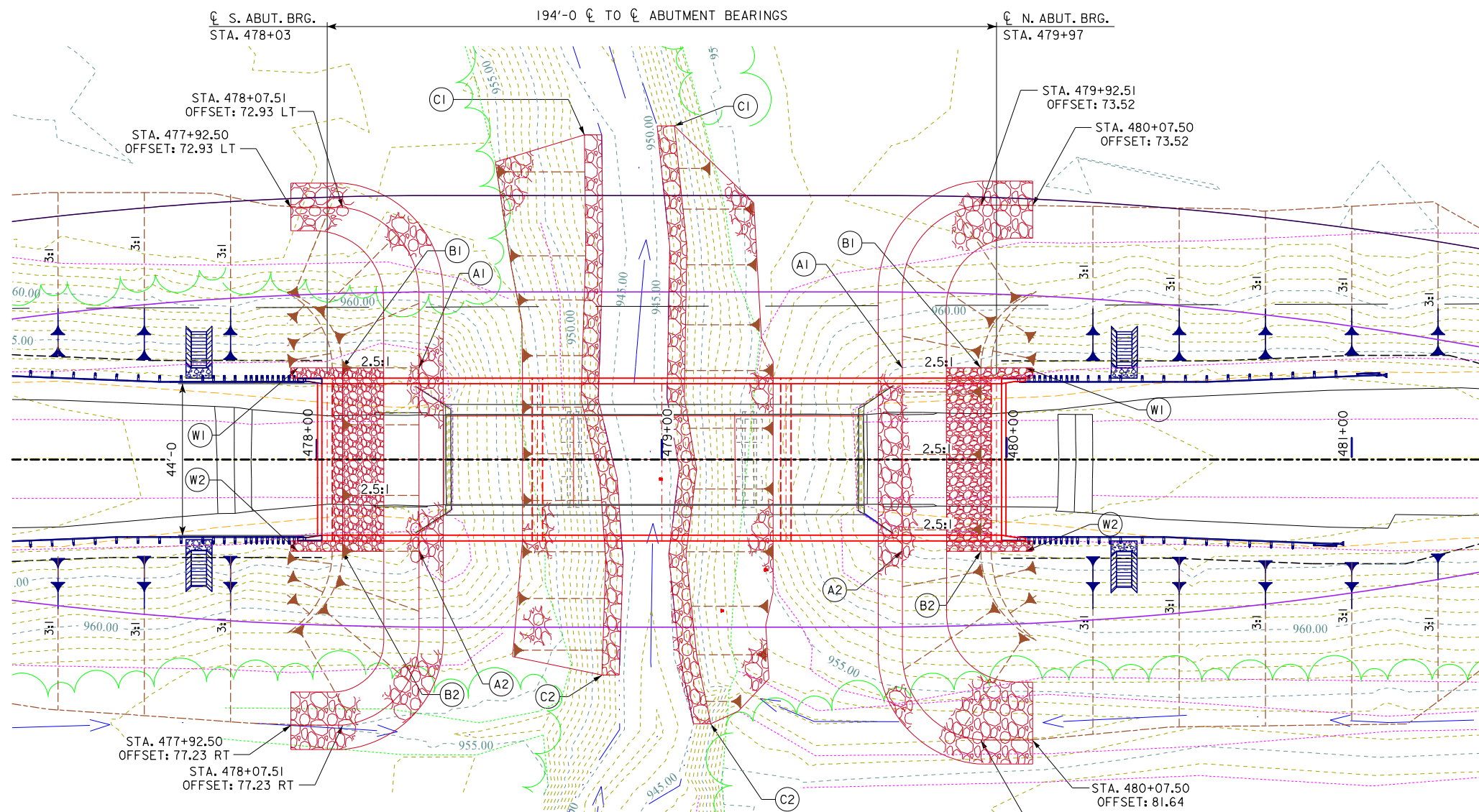
SECTION THRU EMBEDDED REVETMENT BERM



SECTION THRU EMBEDDED REVETMENT NORMAL TO BRIDGE WING AT W POINT

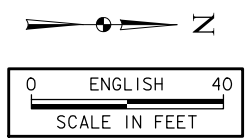
BERM SLOPE LOCATION TABLE						
	SOUTH ABUTMENT			NORTH ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	478+29.67	26.58 LT	954.50	479+69.73	26.58 LT	954.50
A2	478+29.67	26.58 RT	954.50	479+69.73	26.58 RT	954.50
B1	478+07.51	26.58 RT	963.37	479+92.51	26.58 RT	962.58
B2	478+07.51	26.58 LT	963.37	479+92.51	26.58 LT	962.58
C1	478+77.61	93.99 LT	944.50	479+03.66	73.50 LT	944.50
C2	478+82.68	62.69 RT	944.50	479+09.23	76.76 RT	944.50
W1	477+94.50	26.58 LT	968.76	480+05.50	26.58 LT	967.90
W2	477+94.50	26.58 RT	968.76	480+05.50	26.58 RT	967.90

BERM SLOPE TABLE ELEVATIONS REFLECT GRADING SURFACE



ESTIMATED BERM ARMORING QUANTITIES				
LOCATION	REVTMENT CL. E (TON)	EROSION STONE (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
BERM LINING - SOUTH ABUTMENT	904.5	37.9	1048.8	588.7
BERM LINING - NORTH ABUTMENT	1041.8	32.7	1168.5	671.3
TOTALS	1946.3	70.6	2217.3	1260.0

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.



SITE PLAN

PRELIMINARY

DESIGN FOR 0° SKEW

194'-0 X 44'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE

61'-0 END SPANS, 72'-0 INTERIOR SPAN

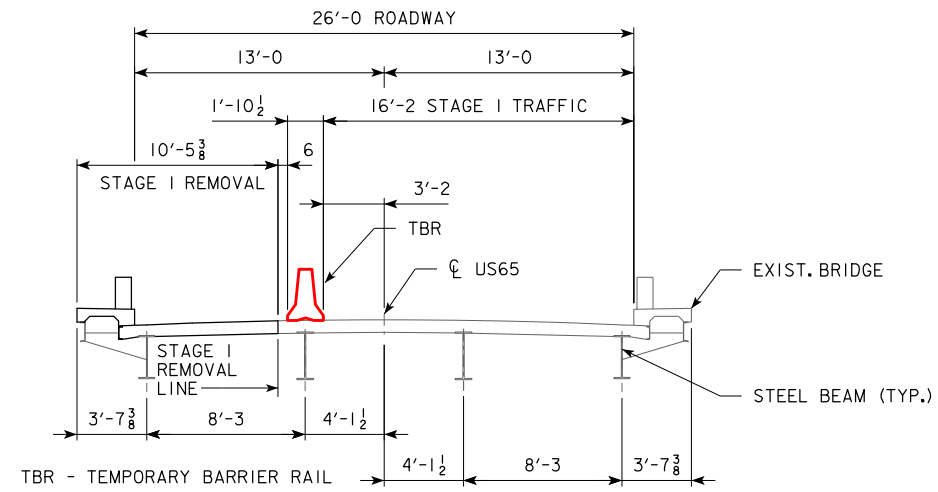
SITUATION PLAN - SITE

STATION 479+00.00 (US65) OCTOBER, 2020

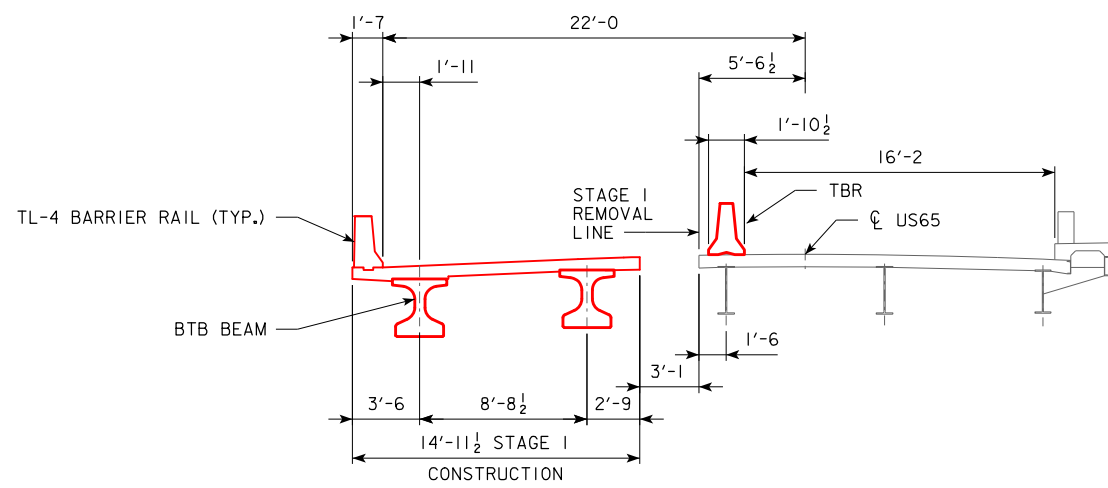
WAYNE COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

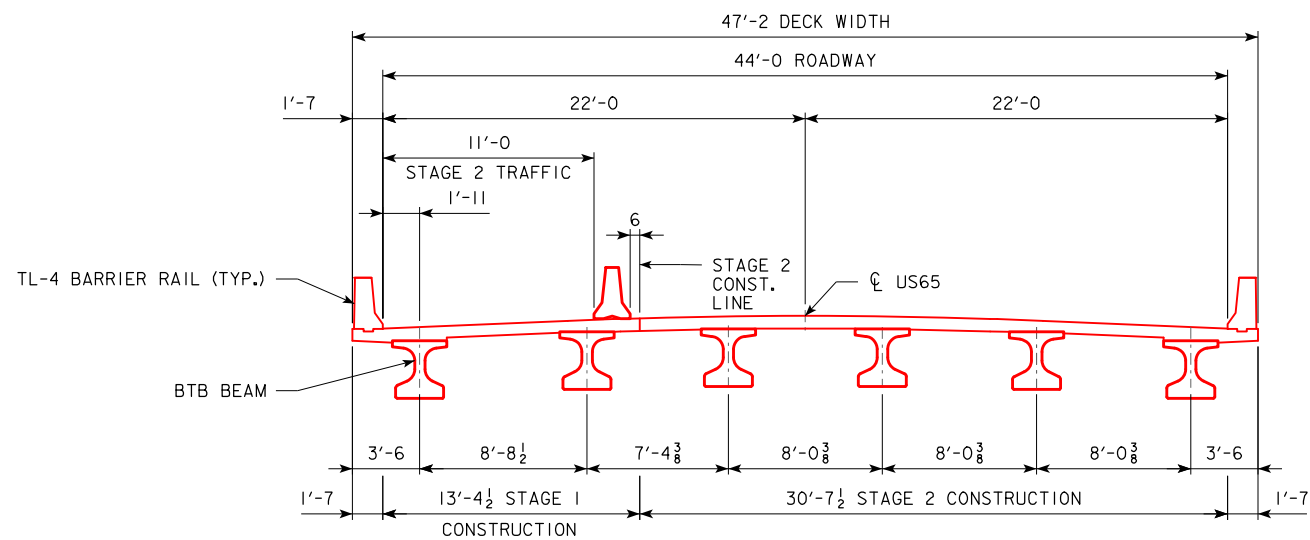
DESIGN SHEET NO. 2 OF 3 FILE NO. 31702 DESIGN NO. 123



STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE 2 CONSTRUCTION

PRELIMINARY

DESIGN FOR 0° SKEW
**194'-0 X 44'-0 PRETENSIONED
 PRESTRESSED CONCRETE BEAM BRIDGE**
 61'-0 END SPANS, 72'-0 INTERIOR SPAN
STAGE PLAN
 STATION 479+00.00 (US65) OCTOBER, 2020
WAYNE COUNTY
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 3 OF 3 FILE NO. 31702 DESIGN NO. 123

LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)

- - - - - - Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- - - - - Additional Topsoil Removal
- Subgrade Treatment
- - - - - Granular Shoulder
- Pavement
- - - - - Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)

- Topsoil (Class 10)
- Slope Dressing Only
- Class 10 Materials
- Select Loams And Clay-Loams
- Select Sand
- Unsuitable Type A Disposal
- Unsuitable Type B Disposal
- Unsuitable Type C Disposal
- Shale
- Waste
- Broken and Weathered Rock
- Solid Rock
- Boulders

Note: All layer lines and descriptions identify layers above the line.

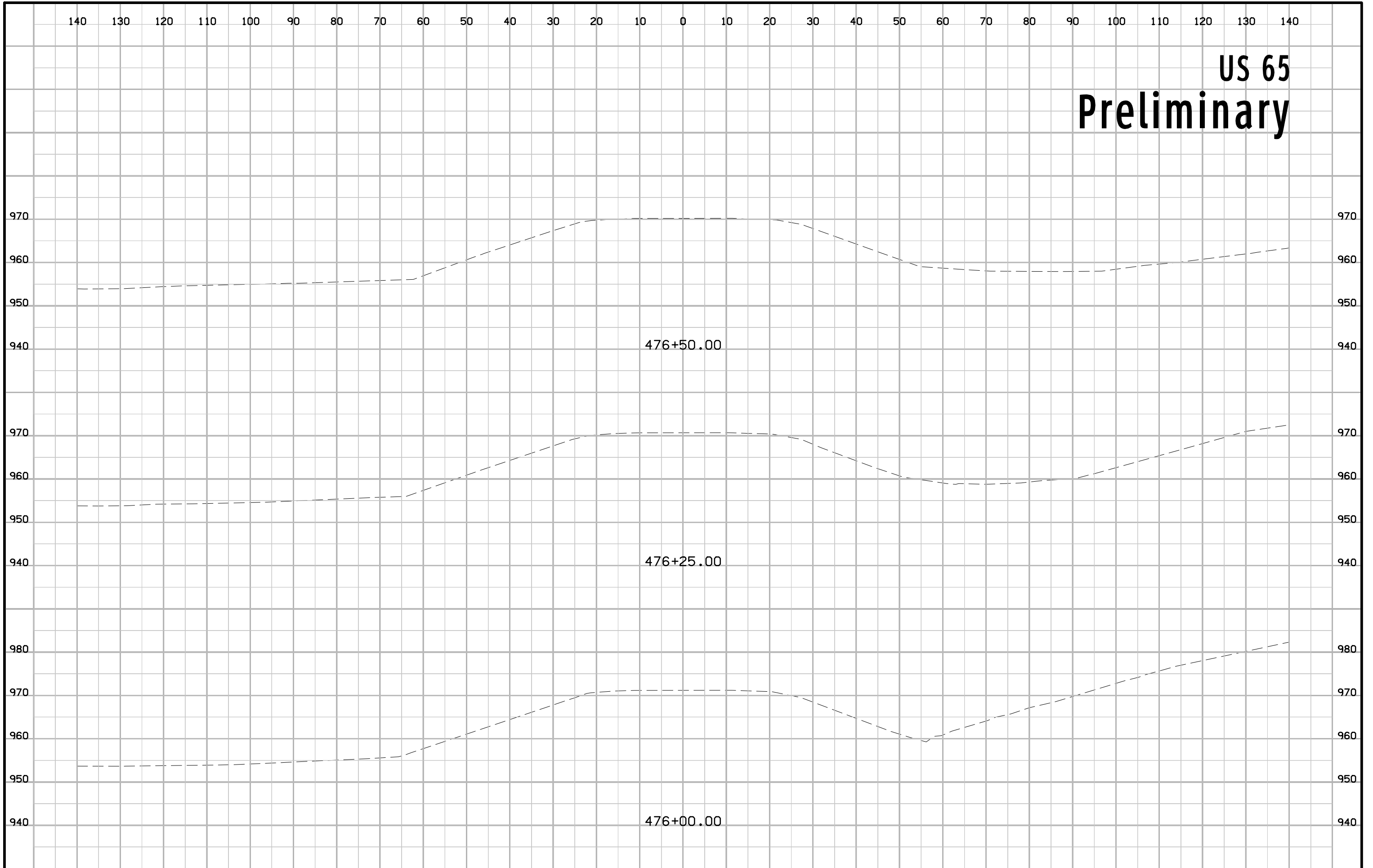
Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

SYMBOL LEGEND OF CROSS SECTION SHEETS

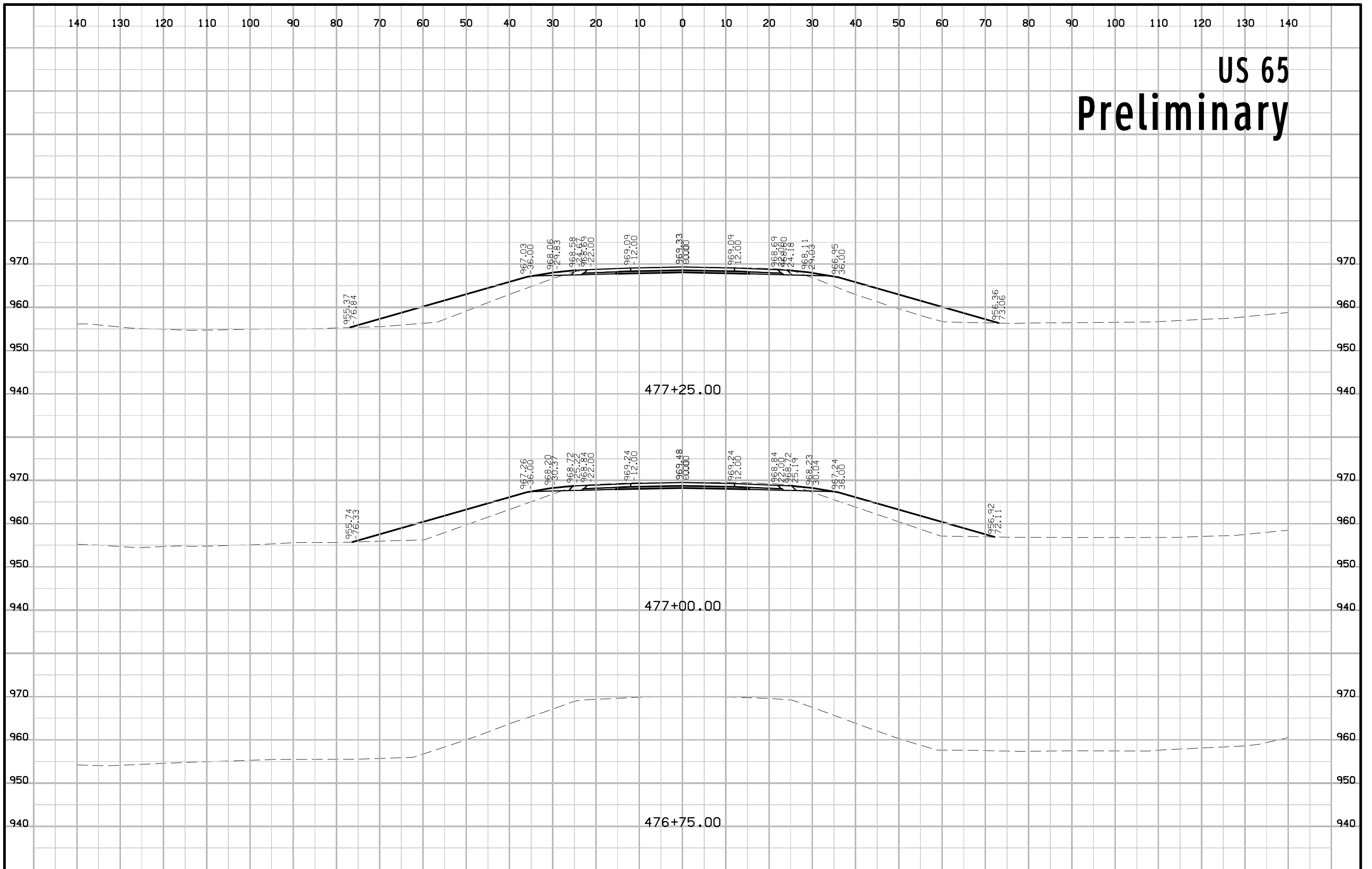
- Existing ROW
|
Existing Right-of-Way Limit
- Proposed ROW
|
Proposed Right-of-Way Limit
- Temporary ROW
|
Temporary Right-of-Way Limit

**CROSS SECTION
LEGEND AND SYMBOL
INFORMATION SHEET
(COVERS SHEET SERIES W, X, Y, & Z)**

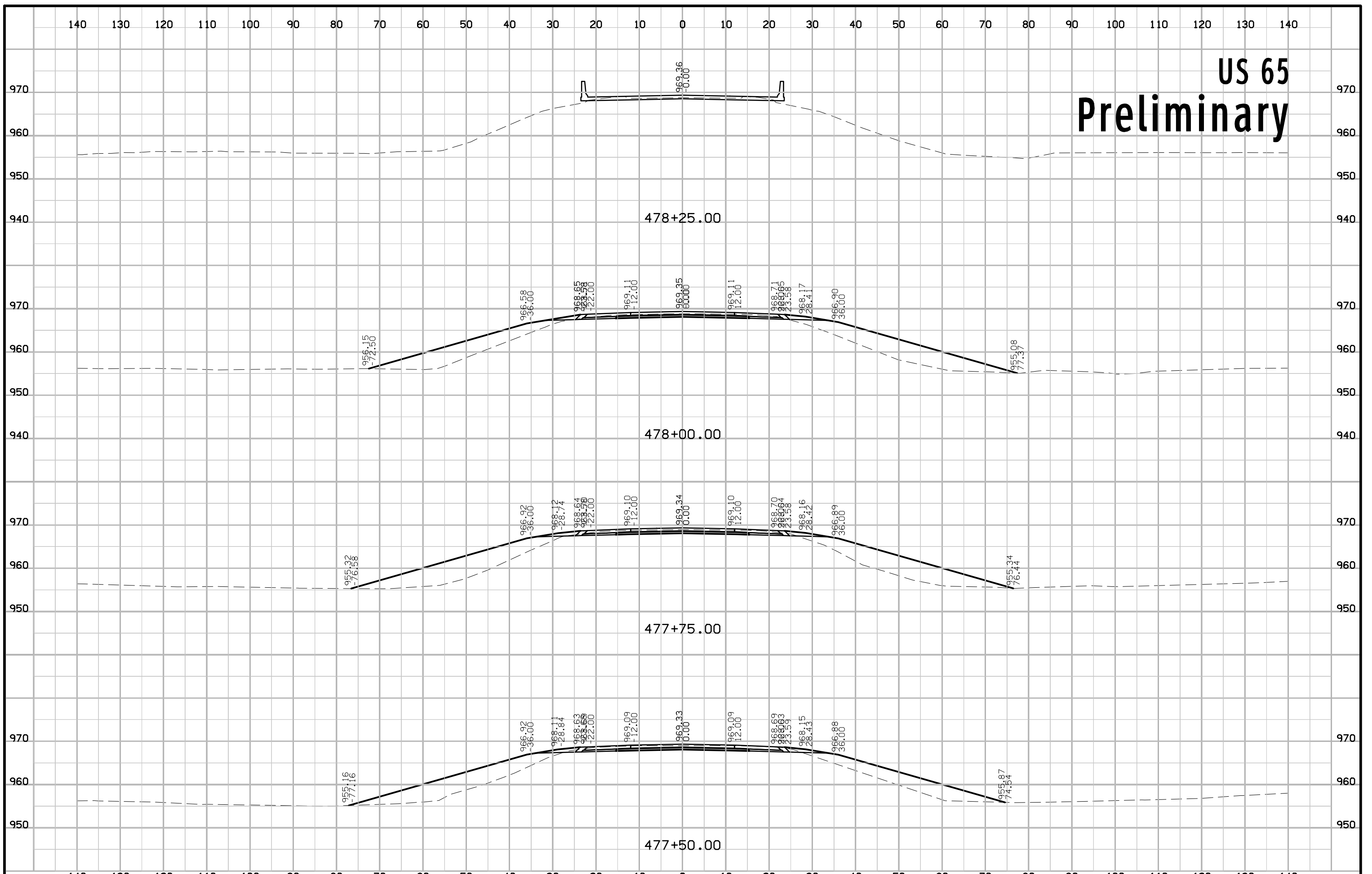
US 65 Preliminary



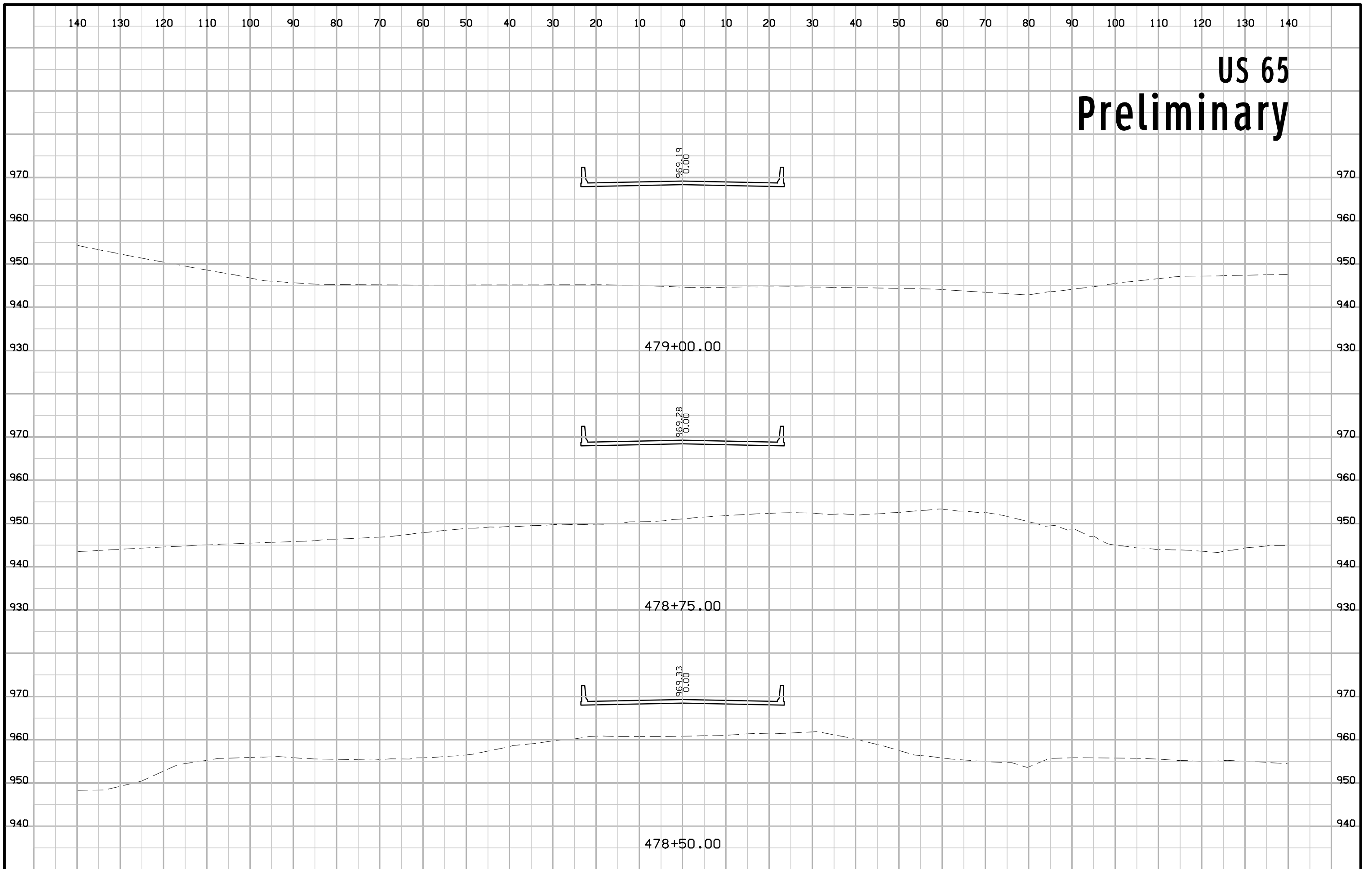
US 65 Preliminary



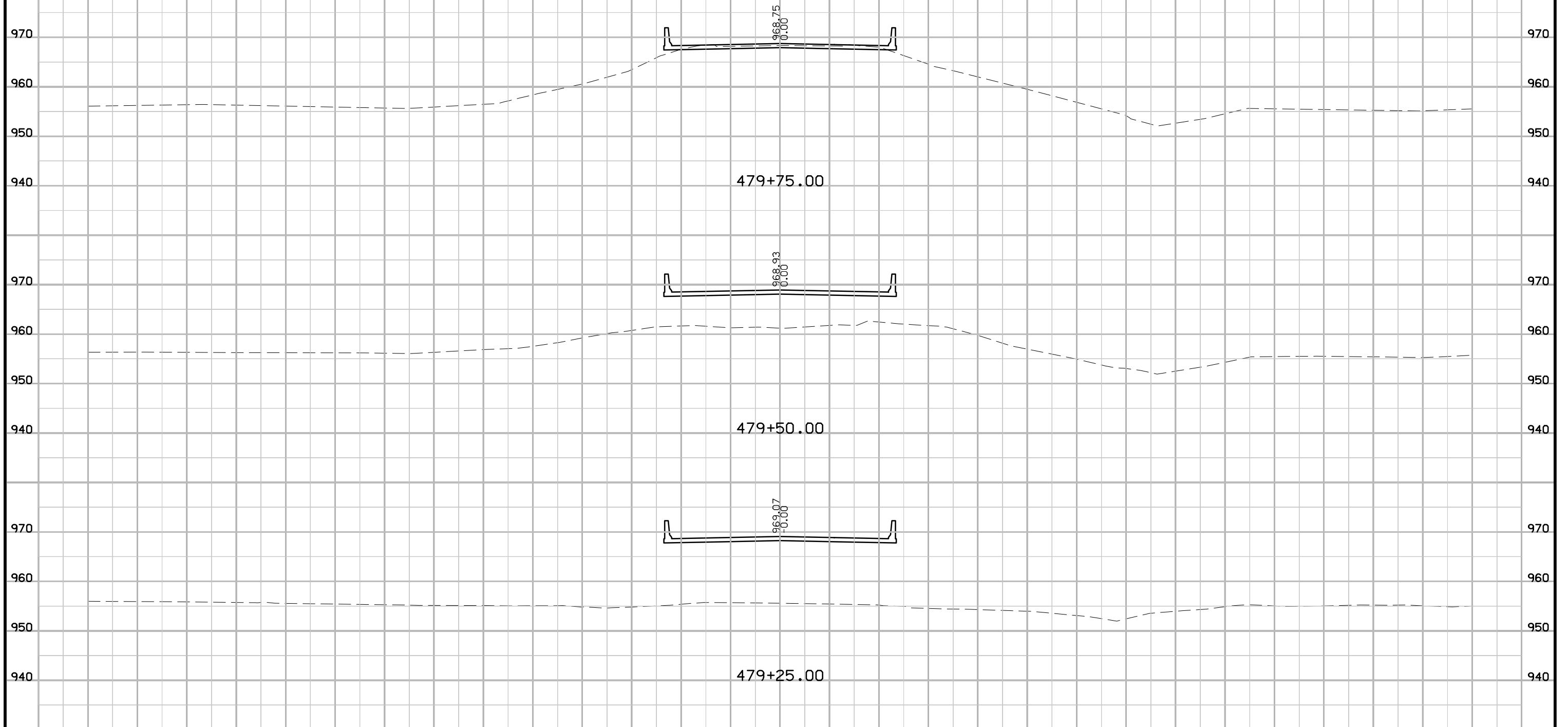
US 65 Preliminary



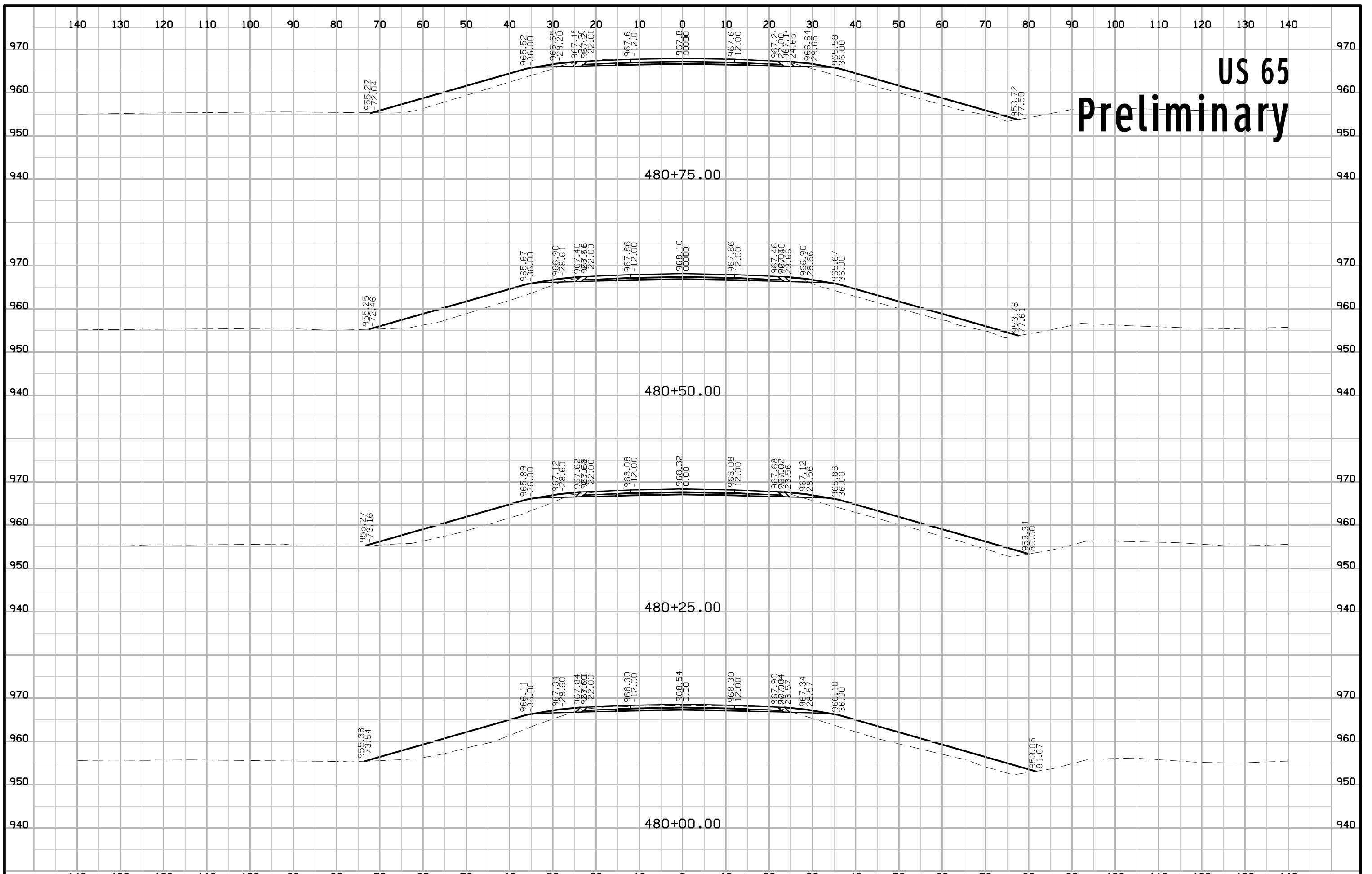
US 65 Preliminary



US 65 Preliminary



US 65 Preliminary



US 65 Preliminary

