LETTING DATE
December 19, 2028

BRIDGE REPLACEMENT
BRF-006-1(135)--38-78

POTTAWATTAMIE COUNTY

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
POTTAWATTAMIE COUNTY
BRIDGE REPLACEMENT

US 6
Over Silver Creek
1.0 mi E of Co Rd L66

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

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

H Sheets --->

REVISIONS

TOTAL
..

PROJECT IDENTIFICATION NUMBER
24-78-006-030
PROJECT NUMBER
BRF-006-1(135)--38-78
R.O.W. PROJECT NUMBER

Index of Sheets

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*A.2	Location Map Sheet
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B.1 - B.3	Typical Section and Details
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*D.1	Plan & Profile Legend & Symbol Information Sheet
*D.2	US 6 Plan and Profile
E Sheets	**Sideroad Plan and Profile Sheets**
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G Sheets	**Survey Sheets**
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W Sheets	**Mainline Cross Sections**
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X Sheets	**Sideroad Cross Sections**
X.1 - X.6	Sideroad Cross Sections
	* Color Plan Sheets

DESIGN DATA RURAL			
2029	AADT	3,000	V.P.D.
2049	AADT	3,660	V.P.D.
20 –	DHV	--	V.P.H.
TRUCKS		15	%
Total Design ESALs		--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	X	Primary Signature Block	X
X	X	X	X

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: January 26, 2026

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **A.1**

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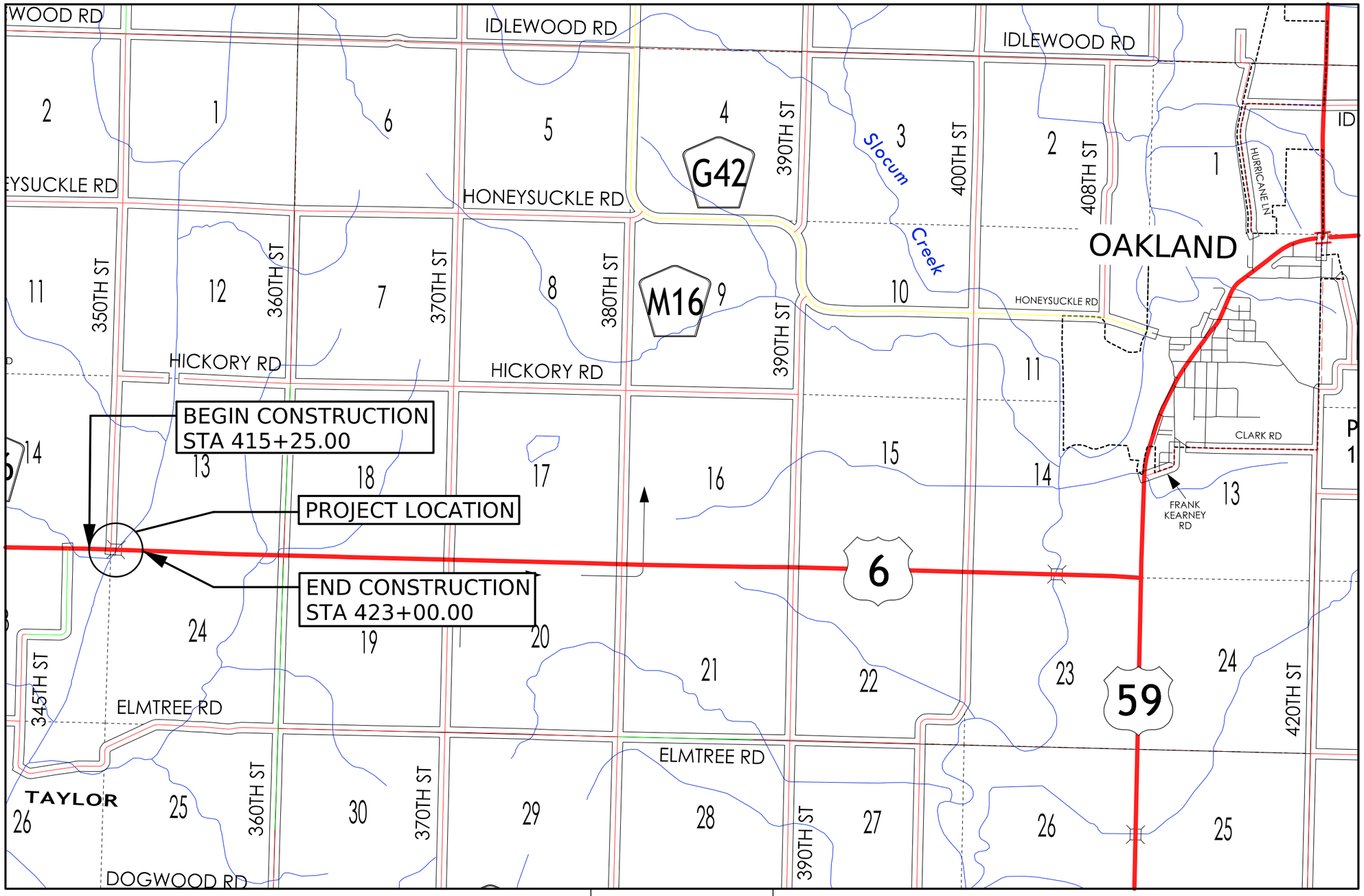
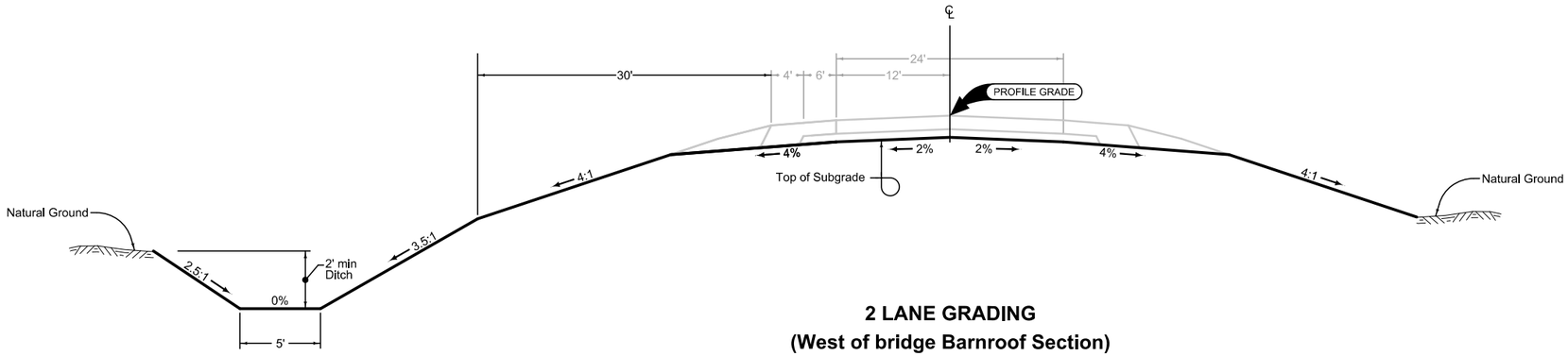


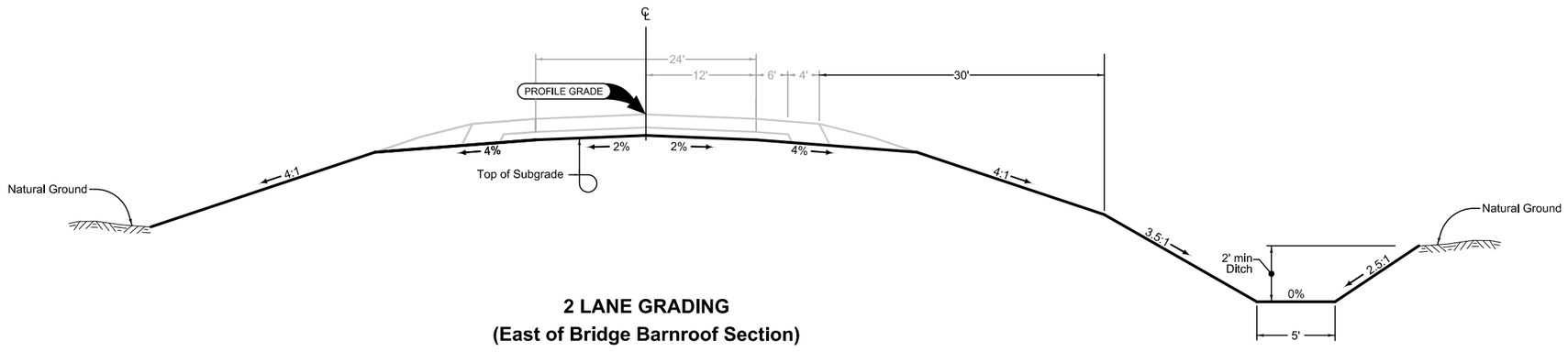
FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **A.2**

G_2_Grade_BR
MODIFIED



2 LANE GRADING
(West of bridge Barnroof Section)

G_2_Grade_BR
MODIFIED



2 LANE GRADING
(East of Bridge Barnroof Section)

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **B.1**	

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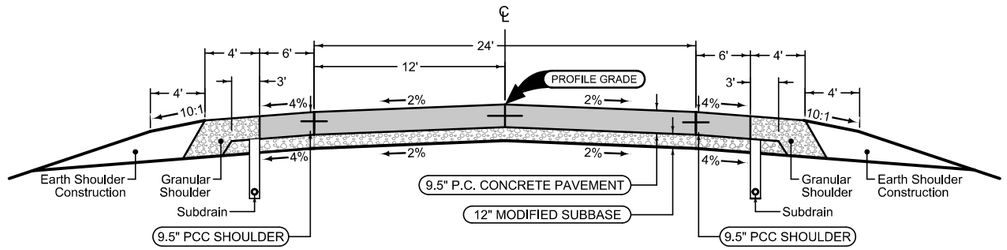
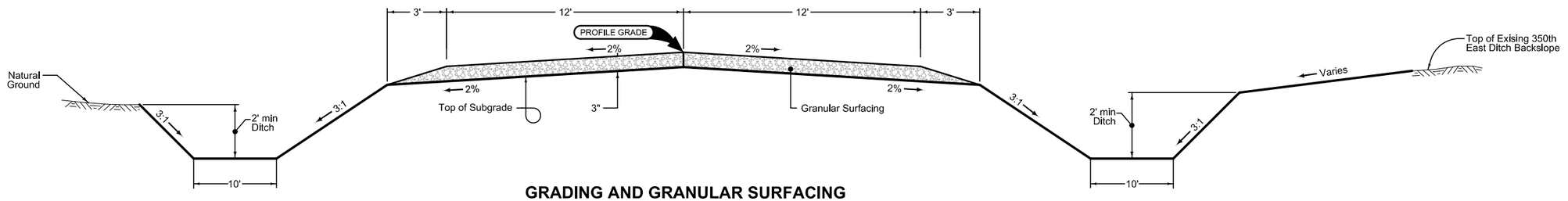


PAVEMENT TYPICAL

G_2_GradeGran
MODIFIED



GRADING AND GRANULAR SURFACING
(Proposed 350th Section)

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

See plan & profile sheets and cross sections for additional details of ditches and backslopes.

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **B.2**	

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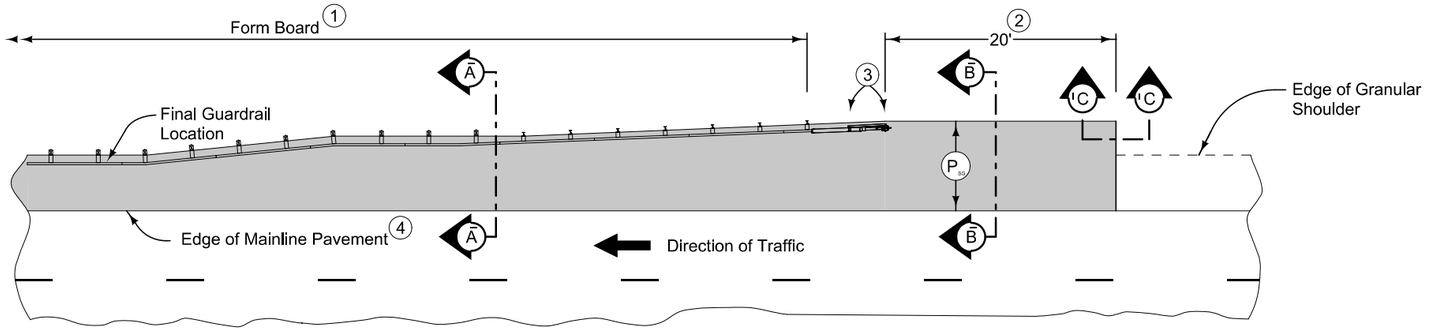
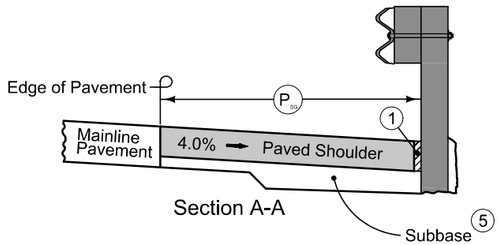
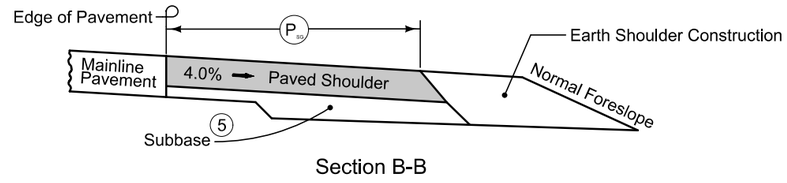
7156
10-21-25

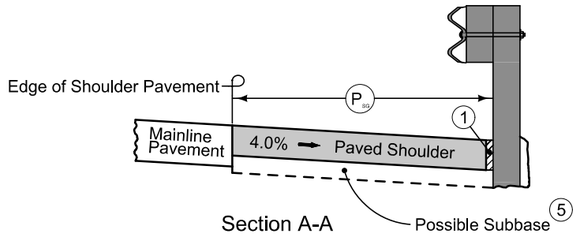


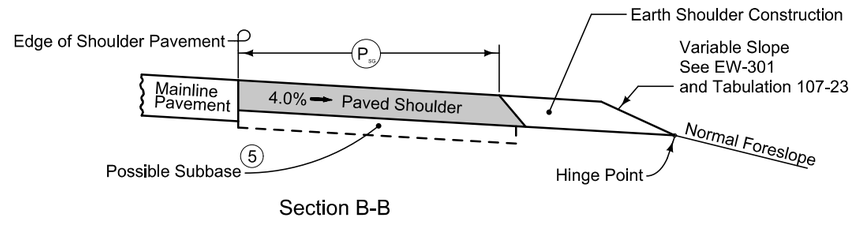
PLAN VIEW





NEW CONSTRUCTION





EXISTING SHOULDER

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.

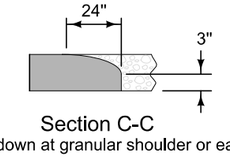
(1) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.

(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) 'BT' joint (per PV-101) for PCC shoulder.
'B' joint (per PV-101) for HMA shoulder.

(5) Refer to other details in the plan.



PAVED SHOULDER AT GUARDRAIL
(GRANULAR SHOULDER ADJACENT TO MAINLINE)

SURVEY SYMBOLS

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

UTILITY LEGEND

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING	**Design Color No.**	
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading
Red	(3)	Delineates Restricted Areas

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(10)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

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

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E)

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **D.1**

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STATION 2001+20.00
INSTALL 60" Eq. x 48', RCP
SKEW 0°
FL = LT. 1102.80
RT. 1101.44

GRADING LIMIT
EXISTING R.O.W.
350TH ST_P
350TH ST
CLOSE EXISTING ENTRANCE
42"x55' C.M.P. (REMOVE)
30"x16' C.M.P. (REMOVE)
(REMOVE) 48"x77' C.M.P.
54"x85' C.M.P. (Can't find outlet FL) (REMOVE)
SILVER CREEK
(U.A.C)
STA 415+25.00 (ML_US6) BEGIN CONSTRUCTION
STA 423+00.00 (ML_US6) END CONSTRUCTION
US 6
F02
F03
416+70.45
0 30 FEET

Sta. 417+00.60

VPI = +43.00
EL = 1114.40
L = 180.00'
K = 180

VPI = +80.00
EL = 1113.21
L = 180.00'
K = 143

VPI = +25.00
EL = 1113.31
L = 180.00'
K = 684

PROPOSED GRADE
EXISTING GRADE

STA. 415+25.00
ELEV. 1112.84

STA. 423+00.00
ELEV. 1114.12

+0.24%
+0.50%
+0.50%
-0.50%
-0.50%
+0.76%

LT +25
1105.92
-2.11% LT Ditch Grade
LT +97
1100.18

LT +00
1109.16
LT +23
1105.30
+5.04% LT Ditch Grade
+1.63% RT Ditch Grade
RT +98
1105.30
RT +00
1108.59

DESIGN SPEED = 60 MPH

1115
1110
1105
1100
1095
1090

415+00 416+00 417+00 418+00 419+00 420+00 421+00 422+00 423+00

1112.84 1112.90 1112.95 1113.01 1113.07 1113.13 1113.20 1113.28 1113.37 1113.47 1113.57 1113.69 1113.81 1113.94 1114.05 1114.12 1114.17 1114.17 1114.15 1114.08 1113.99 1113.87 1113.74 1113.62 1113.53 1113.49 1113.49 1113.54 1113.63 1113.76 1113.93 1114.12

FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER D.2

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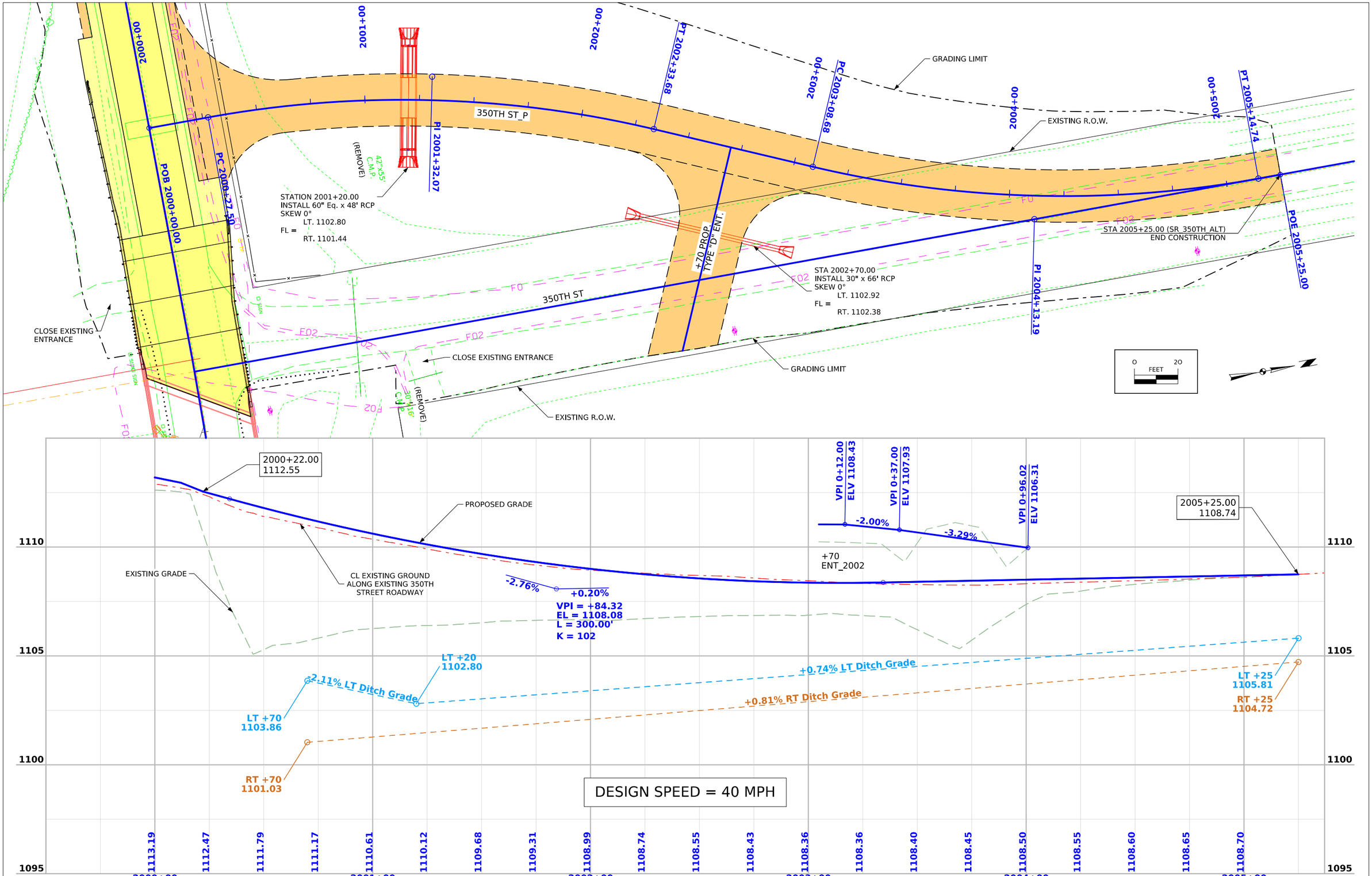

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **E.1**

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SURVEY INDEX

County: Pottawattamie
PIN: 24-78-006-030
Project Number: BRF-006-1(135)--38-78
Location: Silver Creek 1.0 mile East of Co Rd L66
Type of Work: Bridge - Unspecified
Project Directory: 7800603024
SAP: 559.1

Survey Personnel

Wes Shimp – PLS
Nathan Theis-Barnett – Survey Party Chief
Katerina Wyatt – Survey Party Chief
Alexis Avila – Assistant Survey Party Chief

Date(s) of Survey

Begin Date	01/02/2025
End Date	03/07/2025

General Information

This survey is for a conceptual roadway and bridge design for replacement of the US 6 bridge over Silver Creek located 1.0 mi E of County Road L66. 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

Nearby Iowa Real Time Network reference stations were utilized to obtain horizontal and vertical control on four new primary project control points. Three five-minute observations were taken with a minimum two-hour time span between and used in a weighted average to obtain final coordinate values. 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 06 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for U.S. Hwy 6 this survey is a retrace of As-built Plans No. F-310C. Survey stationing was equated to the plan PI at Sta. 389+53.8 and carried ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 389+53.8 As-built Plans Project No. F-310C
Survey PI Sta. 389+53.80

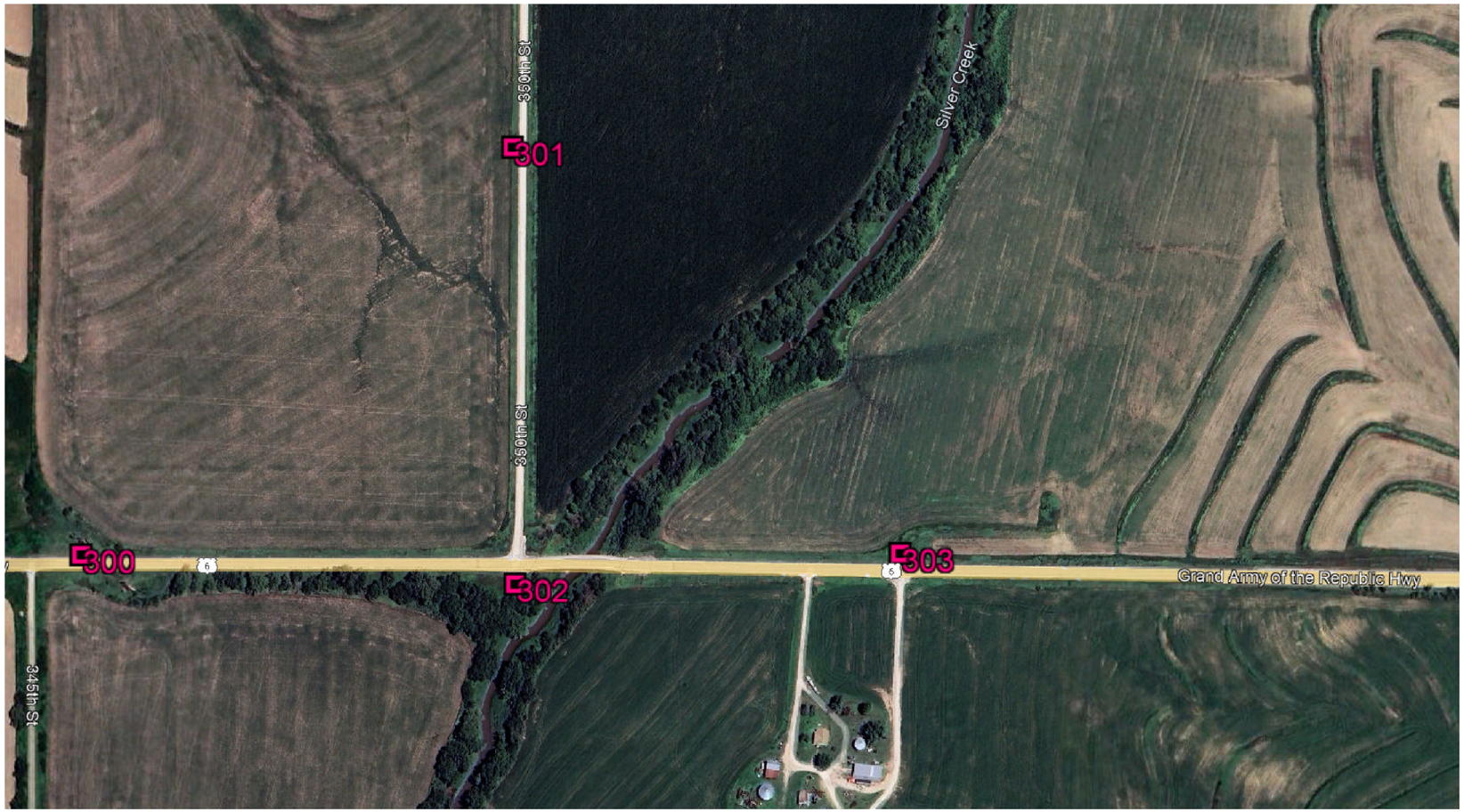
PI Sta. 404+68.3 As-built Plans Project No. F-310C
Survey PI Sta. 404+68.26

PI Sta. 417+78.3 As-built Plans Project No. F-310C
Survey PI Sta. 417+78.31

PI Sta. 452+58.7 As-built Plans Project No. F-310C
Survey PI Sta. 452+54.15

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 06 (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 06 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code - Description
300	6978800.39	16558101.23	1121.13	FENO SET 1217 FEET W OF BRIDGE ON NORTH SIDE OF US6
301	6979893.27	16559257.69	1114.23	FENO SET 1121 FEET N OF US6 AND 350TH ST INTERSECTION ON WEST SIDE OF 350TH ST
302	6978724.90	16559267.90	1108.73	FENO SET 65 FEET SW OF BRIDGE ON SOUTH SIDE OF US6
303	6978809.57	16560301.65	1119.17	FENO SET 743 FEET EAST OF BRIDGE ON NORTH SIDE OF US6

CONTROL LINE DATA - ML_US6

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
SURMLA006	N89°17'58"E	1514.46 '	6978751.86	16556449.72		389+53.80 R1					
SURMLA006	N89°58'00"E	1310.05 '	6978770.38	16557964.06		404+68.26 R1					
SURMLA006	S89°15'02"E	3475.84 '	6978771.14	16559274.12		417+78.31 R1					
SURMLA006			6978725.68	16562749.66		452+54.15 R1					

CONTROL LINE DATA - SR_350TH_ALT

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N00°14'32"E	27.50 '	6978771.08	16559166.25		2000+00.00 R1					
HPI	N23°52'06"E	179.58 '	6978903.15	16559166.81	2000+27.50 R1	2001+32.07 R1	2002+33.68 R1	23°37'35"	500.00 '	206.18 '	104.58 '
HPI	N00°15'20"E	114.77 '	6979162.94	16559281.76	2003+08.68 R1	2004+13.19 R1	2005+14.74 R1	23°36'47"	-500.00 '	206.06 '	104.51 '
END			6979277.71	16559282.28		2005+25.00 R1					

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.

FILE NO.	ENGLISH	DESIGN TEAM	IOWA DOT * OFFICE OF ROW	COUNTY	PROJECT NUMBER	SHEET NUMBER	

Pottawattamie **STPN-006-1(136)--2J-78**

Silver Creek 1.0 mi E of Co Rd L66

7800603024

Project Code **24-78-006-030**

Route **US 6**

		State		County		City			Temp Ease						
Parcel No	Owner Name	Fee	Ease	Fee	Ease	Fee	Ease	Excess			Mitigation	Other	Relocation Needed	A/C Only	Total Acq
1	Steven & Margaret Pierce Family Trust		0.26 AC		0.69 AC										
3	Silvers Farms LLC		0.06 AC		0.03 AC				0.06 AC						

2 Parcels

Washington TWP.
T-75N R-41W
SEC. 14

SE1/4 SE1/4
SEC.14

Washington TWP.
T-75N R-41W
SEC. 13

SW1/4 SW1/4
SEC.13

1

STEVEN &
MARGARET PIERCE
FAMILY TRUST

3

SILVER FARMS LLC

STA: 417+51.74
OFF: 89.00' LT

STATION 2001+20.00
INSTALL 60" Eq. x 48', RCP
SKEW 0°
FL = LT. 1102.80
RT. 1101.44

STA: 416+02.00
OFF: 89.00' LT

STA: 414+87.00
OFF: 33.31' LT

STA 2002+70.00
INSTALL 30" x 66' RCP
SKEW 0°
FL = LT. 1102.92
RT. 1102.38

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

+70 PROP.
TYPE "D" ENT.

350TH ST

CLOSE
EXISTING ENTRANCE
30"X18'
C.M.P.
(REMOVE)

42"X59'
C.M.P.
(REMOVE)

48"X77'
C.M.P.
(REMOVE)

SILVER CREEK

415+00

420+00

425+00

STA: 421+51.36
OFF: 61.00' LT

STA: 422+77.00
OFF: 55.00' LT

STA: 423+06.00
OFF: 33.53' LT

US 6

STA 415+25.00 (ML_US6)
BEGIN CONSTRUCTION

STA 423+00.00 (ML_US6)
END CONSTRUCTION

CLOSE EXISTING
ENTRANCE

30"X66'
C.M.P.
(REMOVE)

30"x37'
Conc. Pipe

30"x85'
Conc. Pipe

FO

FO2

FO3

Sta. 417+00.60
6'x8'x20' RCB
(U.A.C)

SILVER CREEK

1

STEVEN &
MARGARET PIERCE
FAMILY TRUST

DOYAL LAND LLC

NE1/4 NE1/4
SEC.23

Washington TWP.
T-75N R-41W
SEC. 23

Washington TWP.
T-75N R-41W
SEC. 24

NW1/4 NW1/4
SEC.24

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-006-1(136)--2J-78
Plan Date: 5-6-2026
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-0061(135)--38-78	SHEET NUMBER H.1

2:20:37 PM 5/6/2026 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7800603024\ROW\H SHEET_78006136.dgn

1

STEVEN &
MARGARET PIERCE
FAMILY TRUST

Washington TWP.
T-75N R-41W
SEC. 23

NE1/4 NE1/4
SEC.23

Washington TWP.
T-75N R-41W
SEC. 14

SE1/4 SE1/4
SEC.14

1

STEVEN &
MARGARET PIERCE
FAMILY TRUST

US 6

2000+00

2001+00

2002+00

2003+00

2004+00

2005+00

STATION 2001+20.00
INSTALL 60" Eq. x 48', RCP
SKEW 0°
FL = LT. 1102.80
RT. 1101.44

STA: 2001+75.00
OFF: 64.00' LT

STA: 2003+25.00
OFF: 50.00' LT

STA: 2005+22.00
OFF: 32.43' LT

350TH ST_P

(U.A.C)

Sta. 417+00.60
6'x8'x20' RCB

SILVER CREEK

CLOSE EXISTING
ENTRANCE

48"x76"
C.M.P.
(REMOVE)

350TH ST

CLOSE EXISTING
ENTRANCE

350TH ST

STA 2005+25.00 (SR_350TH_ALT)
END CONSTRUCTION

STA: 2005+22.00
OFF: 33.57' RT

STA: 2004+75.00
OFF: 50.00' RT

STA: 2003+89.00
OFF: 55.12' RT

STA: 2003+80.00
OFF: 64.00' RT

STA: 2003+55.00
OFF: 61.78' RT

30"x16'
C.M.P.
(REMOVE)

48"x70'
C.M.P.
(REMOVE)

+70 PROP.
TYPE "D" ENT.

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

STA: 2001+16.82
OFF: 152.00' RT

STA 2002+70.00
INSTALL 30" x 66' RCP
SKEW 0°
FL = LT. 1102.92
RT. 1102.38

NW1/4 NW1/4
SEC.24

SW1/4 SW1/4
SEC.13

3

DOYAL LAND LLC

SILVER FARMS LLC

SILVER CREEK

US 6

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-006-1(136)--2J-78
Plan Date: 5-6-2026
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER HE.1

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108_25
3/28/24

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			NO TRAVEL RESTRICTION EXPECTED				None					

108_23A
8/15/22

TRAFFIC CONTROL PLAN

Construction activity in this area will disrupt traffic on US 6 between Co. Rd. L55 and US 59.
US 6 will remain closed for the duration of the project, with traffic maintained via a designated detour route. Road Closures shall be in accordance with Standard Road Plan TC-252.
Close 350th St. to thru traffic for the duration of the project.
Coordinate closure of 350th St. with Pottawattamie County Engineer.
Information regarding the detour route is provided on Sheet J.2.

Traffic control on this project shall be in accordance with the Standard Road Plans. For additional complementary information, refer to Part 6 of the Manual on Uniform Traffic Control Devices and the current Standard Specifications.

Contractor shall install and maintain all road closures and detour signs. Coordinate closures with Engineer.

There are no existing pedestrian facilities within this project area.

108_26A
8/15/22

STAGING NOTES

Contractor shall be responsible to maintain detour route.

Contractor shall maintain access to properties at all times.

Stage 1
Close US 6 and 350th St. to traffic. Coordinate road closures with Engineer.
Remove existing bridge and roadway pavement.

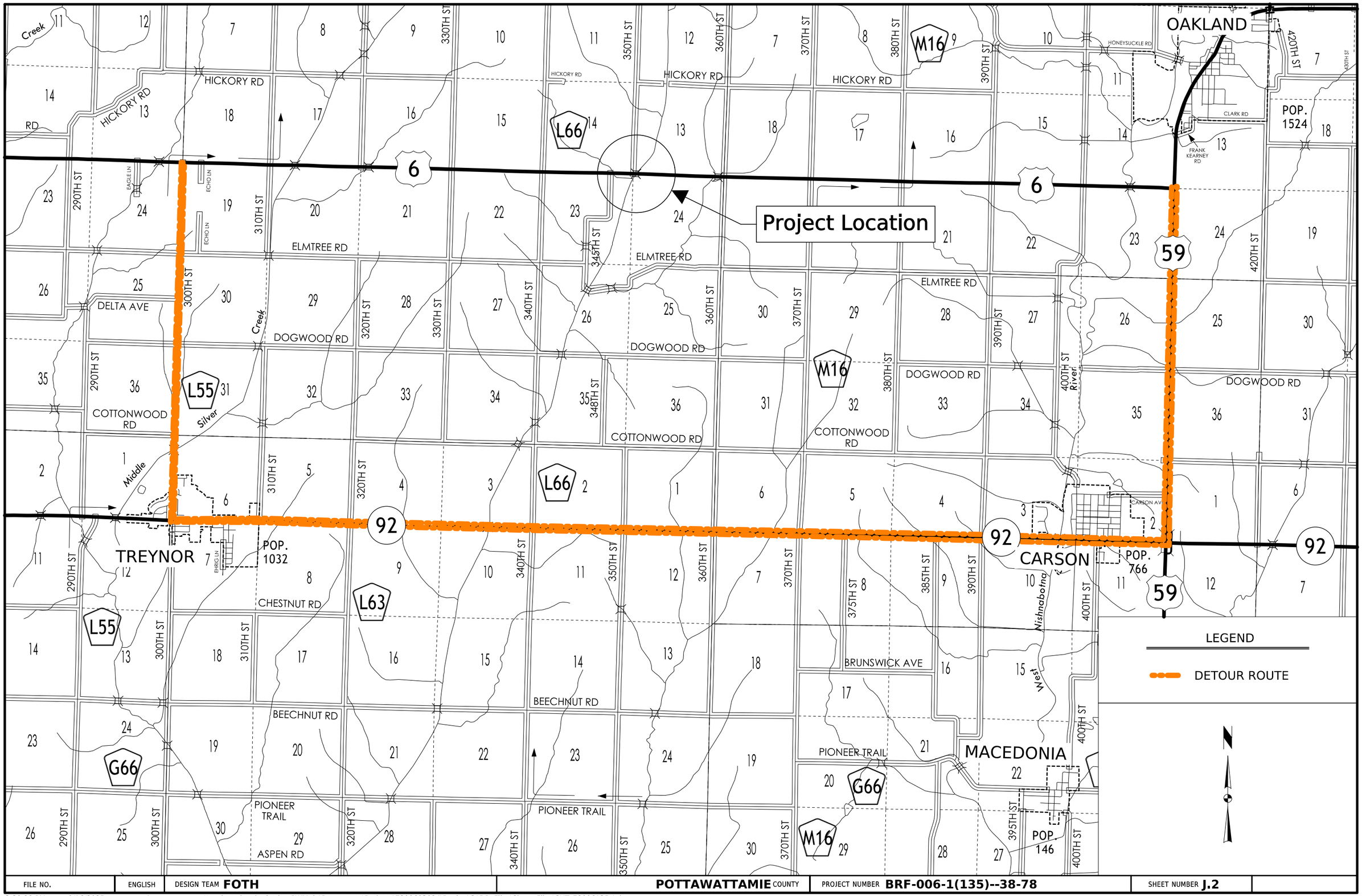
Stage 2
Complete construction of pretensioned prestressed concrete beam bridge and roadway reconstruction.
Coordinate the opening of US 6 and 350th St. with Engineer.

108_13A
3/27/25

SAFETY CLOSURES

Refer to Section 2528 of the Standard Specifications

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
413+75.00	1		US 6
415+25.00		1	US 6
423+00.00		1	US 6
424+50.00	1		US 6
2005+25.00		1	350TH ST
2006+75.00	1		350TH ST



FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **J.2**

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Control Point 302: 6978724.90 N, 16559267.90 E, FENO set 65 feet SW of bridge on south side of US 6, Elev. 1108.73.

Hydraulic Data

RIDB: SilverC_Pottawattamie
Drainage Area = 90.8 Sq. Mi.
Stream Slope (HGL) = 5.33 ft./Mi.
Avg. Low Water Stage = 1074.33

Operational Low Beam = 1107.05

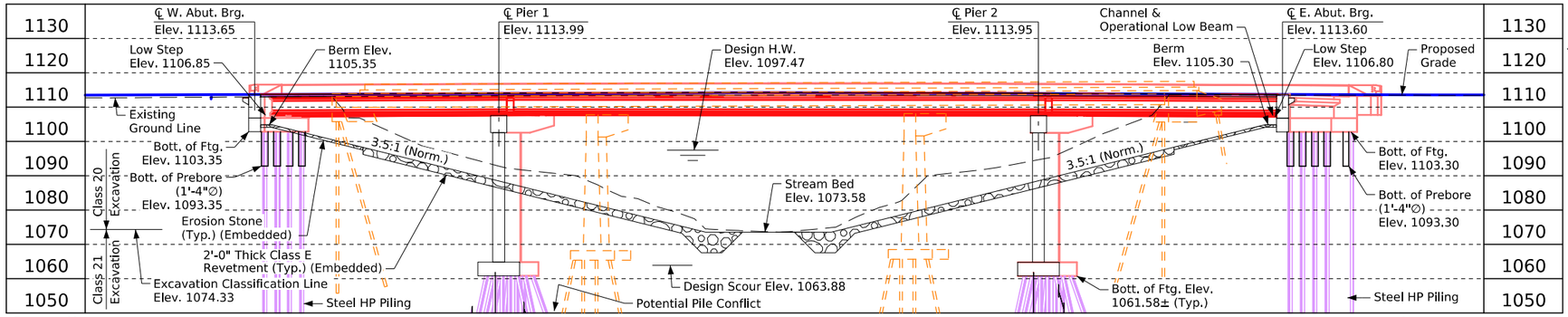
Q_{50} = 11,130 cfs
Stage = 1097.47
Operational Freeboard = 9.58 ft.
Avg. Bridge Velocity = 5.27 fps

Q_{100} = 13,420 cfs
Stage = 1099.66
Operational Freeboard = 7.39 ft.
Backwater = 0.17 ft.
Avg. Bridge Velocity = 5.49 fps

Q_{200} = 15,300 cfs
Stage = 1101.29
Calculated Design Scour = 1063.88

Q_{500} = 18,030 cfs
Stage = 1103.53
Channel Freeboard = 3.52 ft.
Avg. Bridge Velocity = 5.88 fps
Calculated Check Scour = 1063.88

Extreme HW Stage = Unknown
Date = Unknown



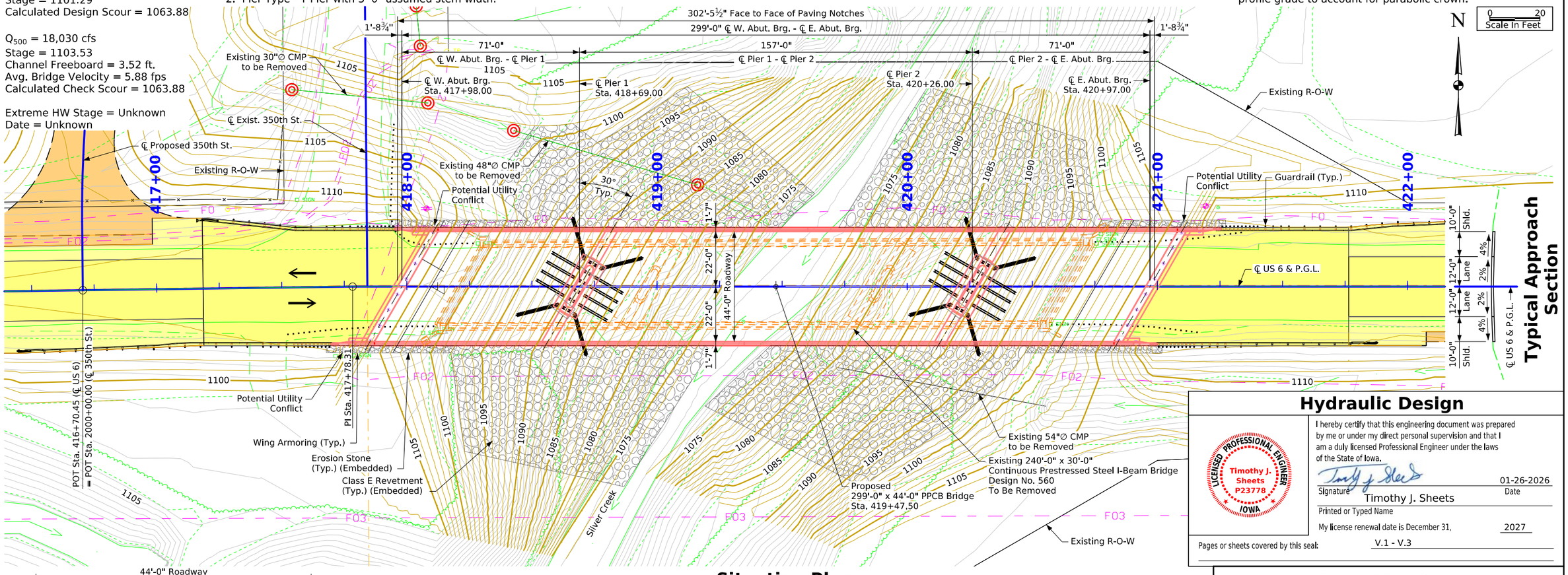
VPI Sta. = 419+43.00
VPI Elev. = 1114.40
VC = 180'
+0.237% +0.500% -0.500% +0.756%
VPI Sta. = 421+80.00
VPI Elev. = 1113.21
VC = 180'
VPI Sta. = 417+25.00
VPI Elev. = 1113.31
VC = 180'

Proposed Profile Grade US 6

Design Notes:
1. TSS TL-4 bridge railing proposed.
2. Pier Type - T Pier with 3'-0" assumed stem width.

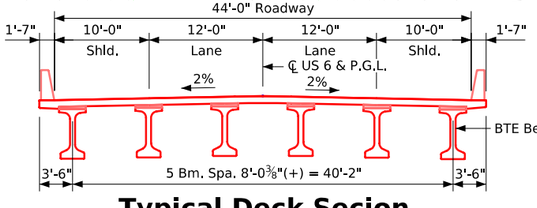
BRG TSL Longitudinal Section Along ℄ Approach Roadway

Note:
Top of bridge deck at centerline roadway is 0.03' below the profile grade to account for parabolic crown.



N
0 20
Scale In Feet

Typical Approach Section



Typical Deck Secion

Traffic Estimate

2029 AADT	3000 V.P.D.
2049 AADT	3660 V.P.D.
20xx DHV	xxx V.P.H.
TRUCKS	15 %
Total Design ESALs	???

Note:
This design is for the replacement of the existing 240' x 30' Continuous Prestressed Steel I-Beam Bridge, Pottawattamie Design No. 560, FHWA No. 43270, Maint. No. 7821.7S006.

Situation Plan

Utilities Note:

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

General Utility Symbols:

FO - Fiber Optic Line
FO2 - Fiber Optic Line
FO3 - Fiber Optic Line

Location

US 6 over Silver Creek
T-75N R-41W
Section 13 & 24
Washington Township
Pottawattamie County
FHWA No. 43271
Bridge Maint. No. 7821.7S006
Latitude 41.289374°
Longitude -95.517045°

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.

LICENSED PROFESSIONAL ENGINEER — Timothy J. Sheets P23778 — IOWA

Signature — 01-26-2026 Date

Timothy J. Sheets
Printed or Typed Name

My license renewal date is December 31, 2027

Pages or sheets covered by this seal: V.1 - V.3

Design For 30 Degree Skew LA

299'-0" x 44'-0" Pretensioned Prestressed Concrete Beam Bridge

71'-0" End Spans — 157'-0" Interior Span

Situation Plan

STA. 419+47.50 (℄ US 6) — Turn-in Date: Mar 2026

Pottawattamie County

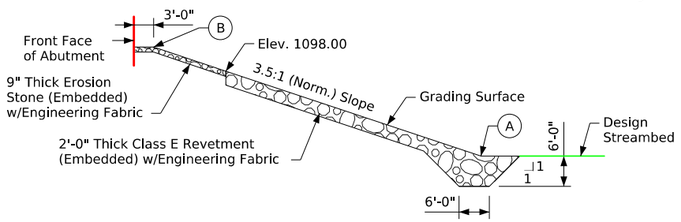
IOWA DEPARTMENT OF TRANSPORTATION

Design No. xxx — Design Sheet No. 1 of 2 — FHWA No. 43271

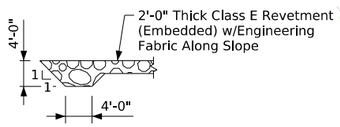
FILE NO. 32865	ENGLISH	DESIGN TEAM FOTH	Pottawattamie COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER V.1

10:58:16 AM 1/23/2026 JAE pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Bridge\(135)_Bridge-Unspecified\SHT_78006135_FOTH_DSN#_43270_Z06.dgn

Control Point 302: 6978724.90 N, 16559267.90 E, FENO set 65 feet SW of bridge on south side of US 6, Elev. 1108.73.



Section Thru Embedded Revetment Berm



Section Thru Embedded Revetment Key-In

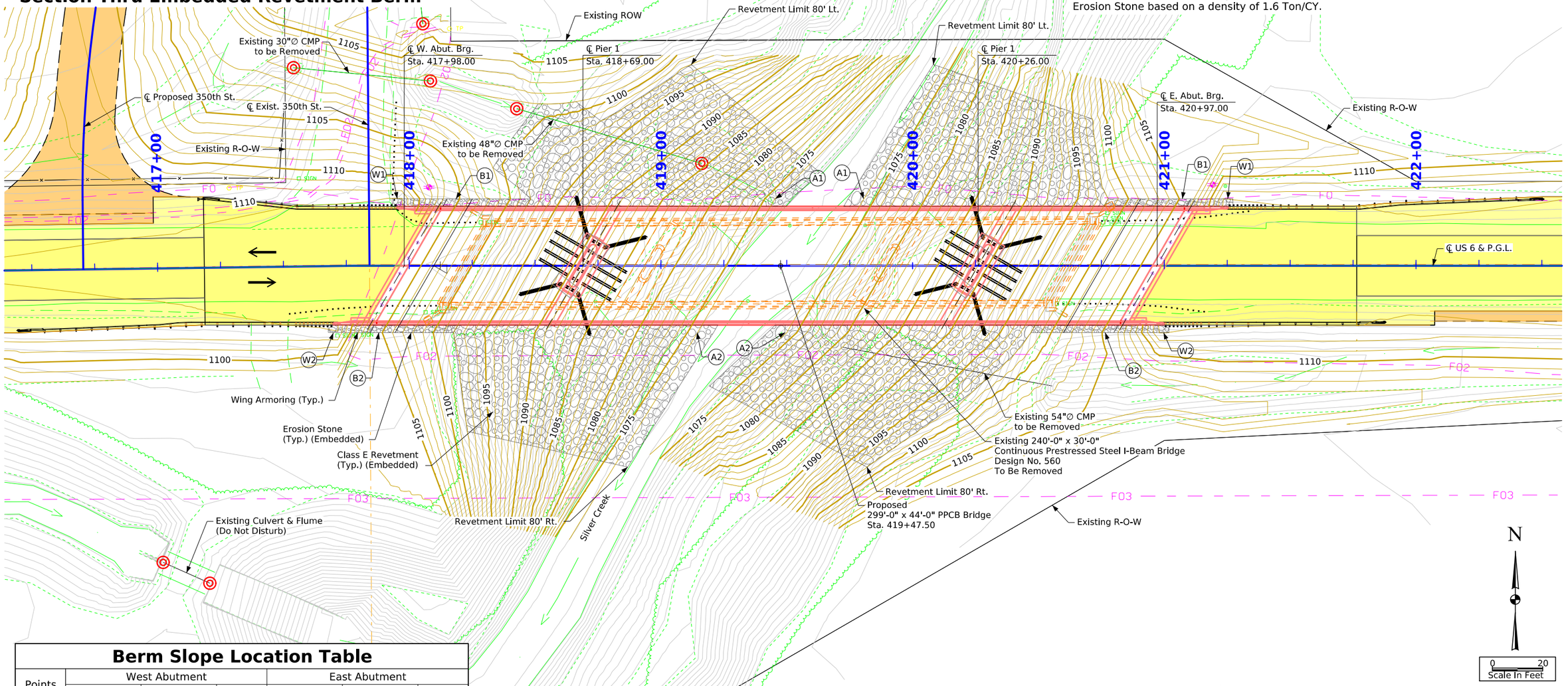
(Upstream and Downstream Limits of Revetment)

Estimated Berm Armoring Quantities

Location	Revetment CL. E (Ton)	Erosion Stone (Ton)	Engineering Fabric (SY)	CL. 10 Channel Excavation (CY)
Berm Lining - West Berm	1690	80	2085	1175
Berm Lining - East Berm	1615	80	1995	1125
Totals	3305	160	4080	2300

Excavation quantity calculated from grading surface. Excavation quantity is 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.

Revetment based on a density of 1.5 Ton/CY.
Erosion Stone based on a density of 1.6 Ton/CY.



Site Plan

Berm Slope Location Table

Points	West Abutment			East Abutment		
	Station	Offset	Elev.	Station	Offset	Elev.
A1	419+46.94	26.58' Lt.	1073.58	419+78.96	26.58' Lt.	1073.58
A2	419+16.25	26.58' Rt.	1073.58	419+48.26	26.58' Rt.	1073.58
B1	418+18.54	26.58' Lt.	1105.35	421+07.15	26.58' Lt.	1105.30
B2	417+87.85	26.58' Rt.	1105.35	420+76.46	26.58' Rt.	1105.30
W1	417+95.20	26.58' Lt.	1113.07	421+25.20	26.58' Lt.	1112.94
W2	417+69.80	26.58' Rt.	1112.96	420+99.80	26.58' Rt.	1113.02

Berm slope elevations reflect the grading surface.
All points are 3'-0" from the edge of deck.
Offsets are from ℄ US 6.

Design For 30 Degree Skew LA

299'-0" x 44'-0" Pretensioned Prestressed Concrete Beam Bridge

71'-0" End Spans — 157'-0" Interior Span

Situation Plan - Site

STA. 419+47.50 (℄ US 6)

Turn-in Date: Mar 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. xxx | Design Sheet No. 2 of 2 | FHWA No. 43271

FILE NO. 32865	ENGLISH	DESIGN TEAM FOTH	Pottawattamie COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER V.2

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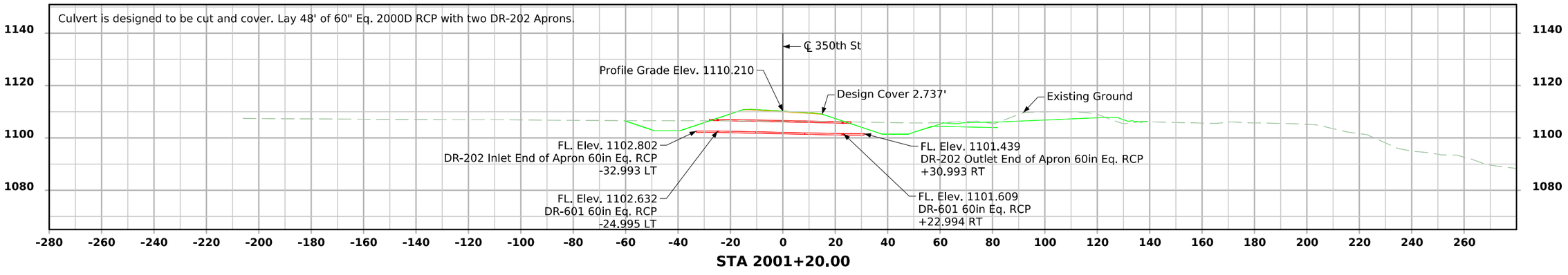
PRELIMINARY BRIDGE TSL DEVELOPMENT REPORT January 26, 2026
US 6 over Silver Creek
Project No. BRF-006-1(135)--38-78
PIN: 24-78-006-030
File No. 32865
Pottawattamie County - Design No. xxx
299'-0 x 44'-0 Pretensioned Prestressed Concrete Beam (PPCB) Bridge
Location: 1.0 mi. E of Co. Rd. L66
Station 419+47.50 (CL US 6)
Maintenance No. 7821.7S006
FHWA No. 43271
Work Description: Bridge Replacement - PPCB
Prepared for: Iowa DOT
Prepared by: Foth IE

TSL DEVELOPMENT DETAILS

1. BDM 3.2.2.4 - Freeboard
   a. Q_{50} design elevation is 1097.47 on the downstream edge of the proposed bridge.
   b. Channel low beam at Sta. 421+06.86 and is 1107.05.
      Freeboard for the proposed bridge is 9.58', which is greater than the DNR requirement of 3'. Calculation is below:
      Low Step Elevation at E. Abut. = 1106.80
      Bearing Device Height = 0.25'
      Low Beam Elevation = 1107.05
      Freeboard = 1107.05 - 1097.47 = 9.58'
2. BDM 3.2.2.7 - Scour
   a. Design scour does not extend below the proposed bottom of the pier footings.
   b. Design scour includes long-term degradation and contraction scour.
   c. The bridge was reviewed for stability against the streambed degrading up to 6', which produces 3:1 berm slopes. This is based on the possibility of a downstream weir structure failing and allowing the knick point to travel upstream.
3. BDM 3.6.1.6 - Superstructures - PPCB
   a. A 299' x 44' PPCB Bridge with an 8.5" deck thickness is proposed.
   b. Estimated 2" haunches at both abutments.
   c. BTE beams are proposed.
4. BDM 3.6.2.1 - Width - Highway
   a. The width of the bridge was set by adding together the proposed lane widths and effective shoulder widths.
5. BDM 3.6.2.2 - Sidewalk, Shared Use Path, and Bicycle Lane
   a. No pedestrian or bicycle facilities are included in the proposed bridge.
6. BDM 3.6.6 - Deck Drainage
   a. The proposed bridge is located on a crest vertical profile. Deck drain locations to be determined during Final Design.
7. BDM 3.6.8 - Barrier Rails
   a. TL-4 barrier rails conform with the BDM requirements for a mainline non-interstate bridge.
   b. Barrier rails for this project will be the TSS TL-4 rails.
8. BDM 3.7.1 - Substructures - Skew
   a. The bridge abutments and piers will be placed at a 30 degree skew to match the channel flow direction.
9. BDM 3.7.2 - Abutments
   a. Integral abutments will be used with 10'-0" prebored HP piling.
10. BDM 3.7.3.5 - Slope Protection
    a. Embedded Class E revetment is proposed to an elevation equal to the Design Q_{50} water surface elevation.
    b. Embedded erosion stone is proposed above the Class E revetment to the face of the abutment.
11. BDM 3.7.4 - Piers and Pier Footings
    a. T Piers with pile footings are proposed for the piers.
    b. Assumed pier stem width for hydraulic model is 3'-0".
12. BDM 3.7.6 - Foundation Conflicts
    a. The bridge abutments and piers will be placed behind the existing abutments and piers.
    b. There are potential conflicts with the existing and proposed pier piles due to pile batter.

Design For 30 Degree Skew LA
299'-0" x 44'-0" Pretensioned Prestressed Concrete Beam Bridge
71'-0" End Spans 157'-0" Interior Span
TSL Development Report
STA. 419+47.50 (℄ US 6) Turn-in Date: Mar 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. xxx FHWA No. 43271

350th Street



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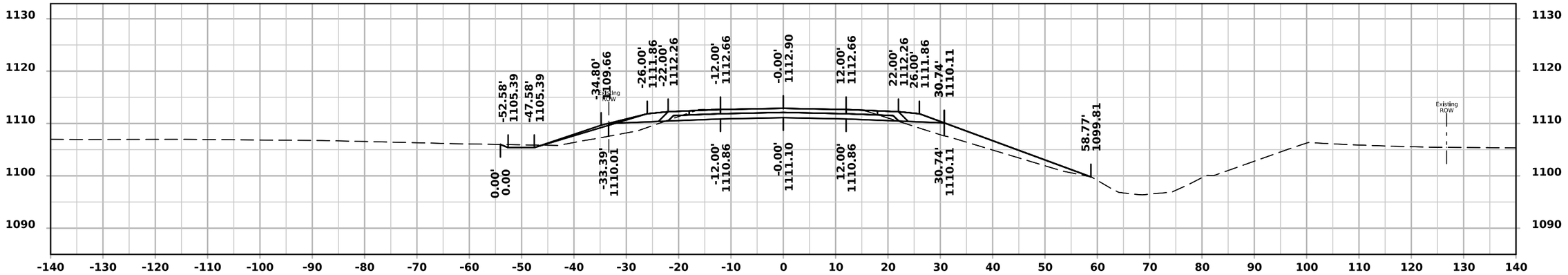
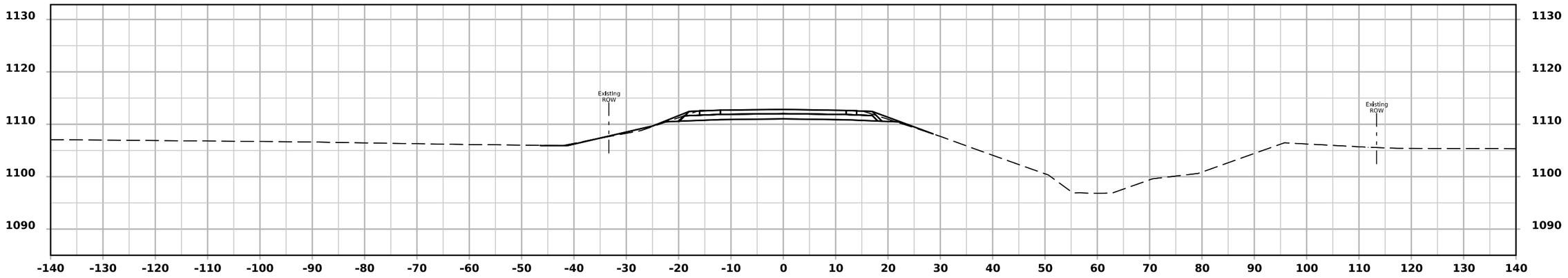
ML - US 6



STA 415+50.00



STA 415+25.00
(Match Existing Elevations)

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.1**

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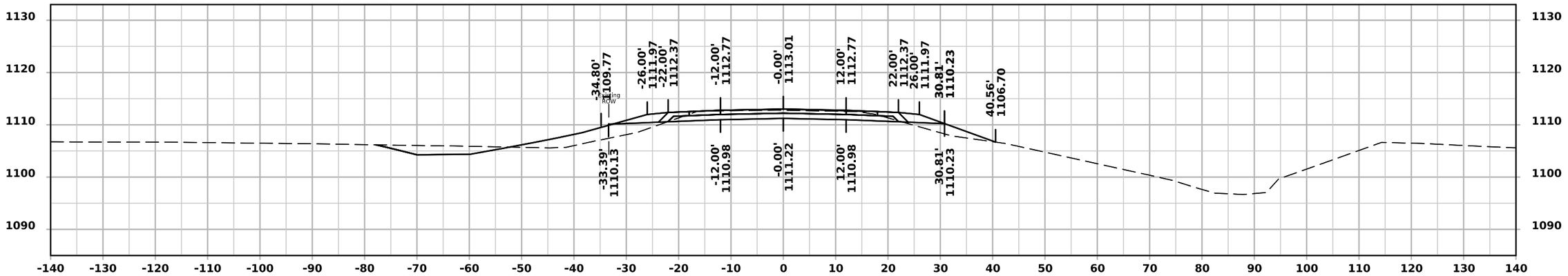
ML - US 6



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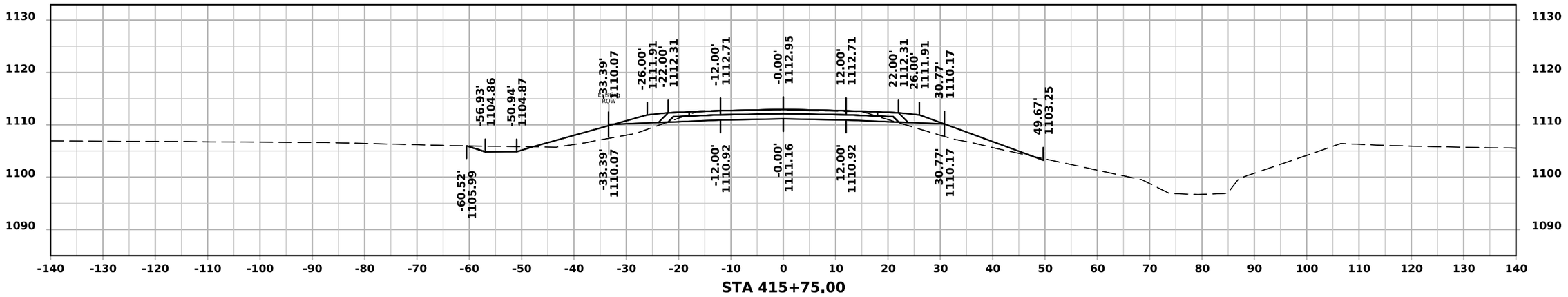

STA 415+75.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.2**

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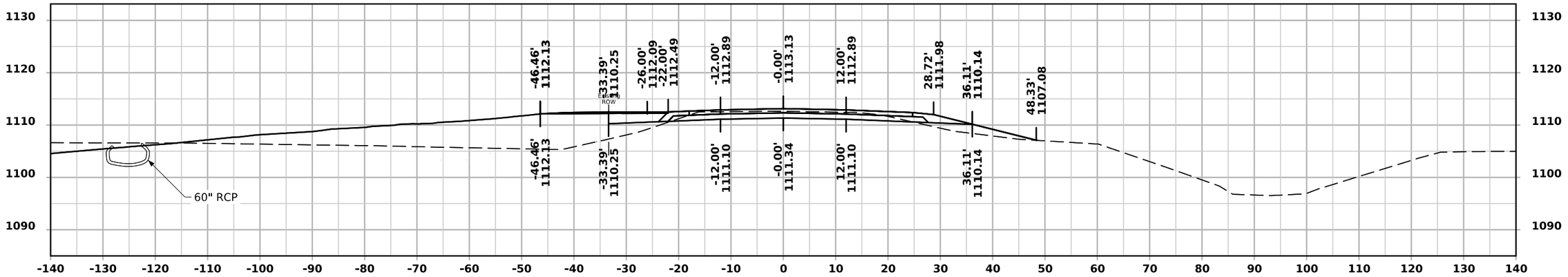
ML - US 6



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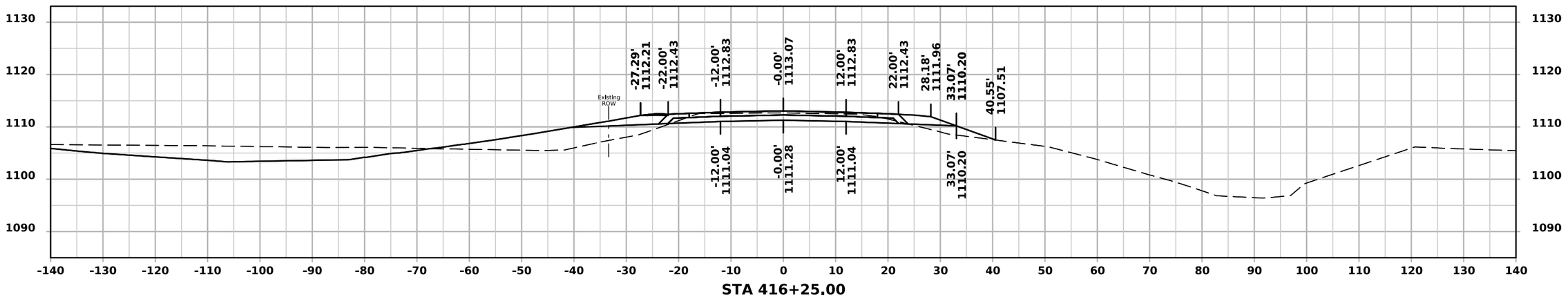

STA 416+25.00

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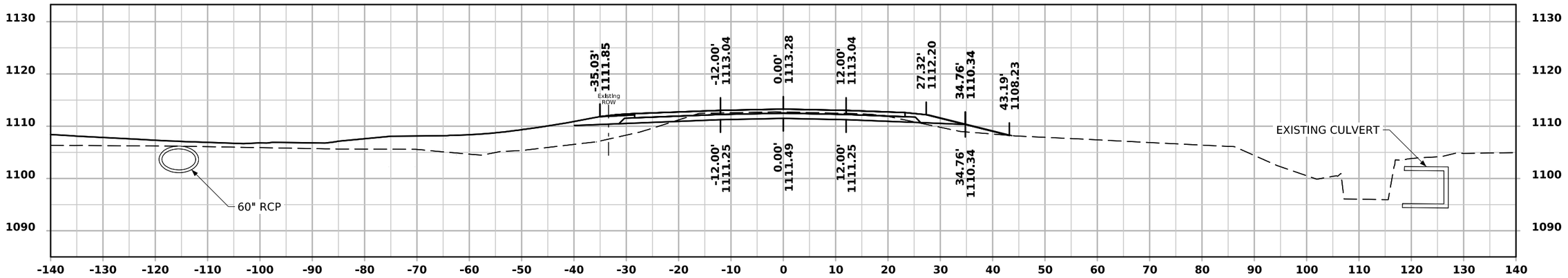
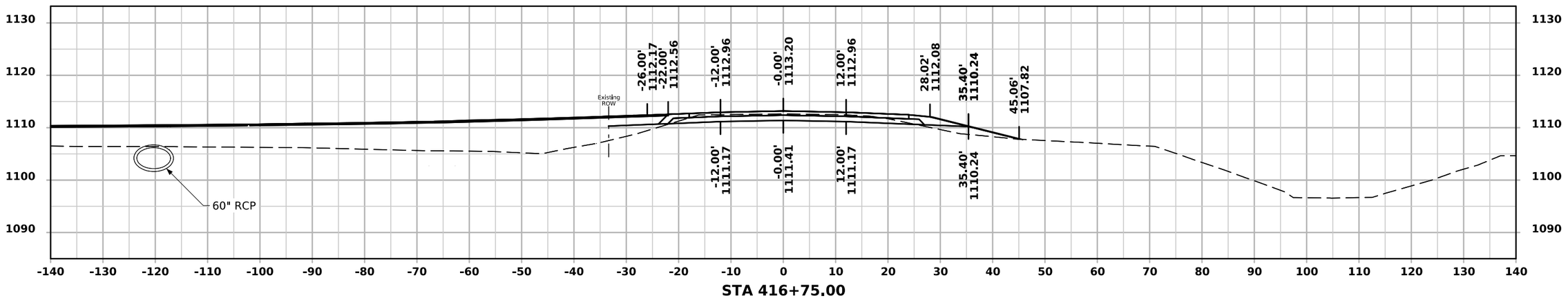
ML - US 6



STA 417+00.00



STA 416+75.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.4**

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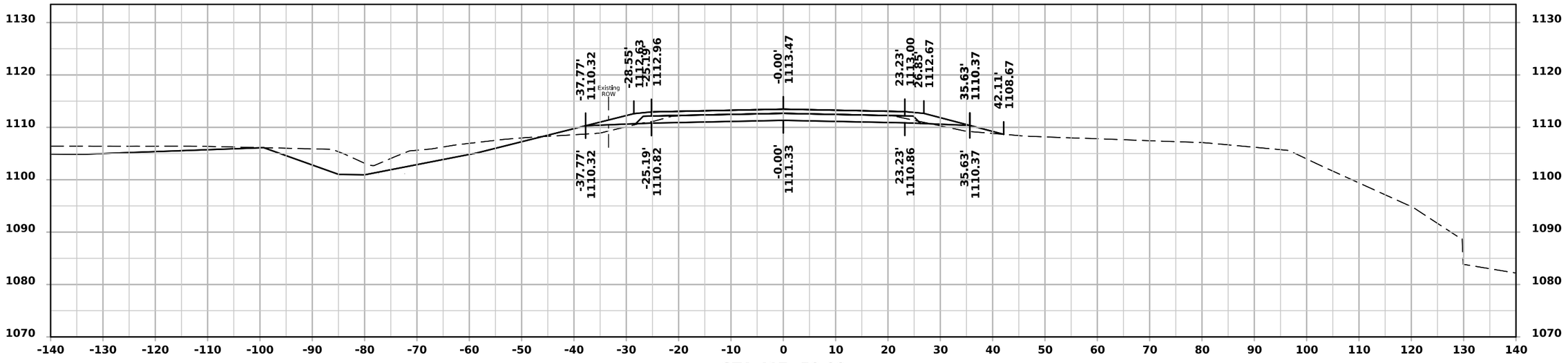
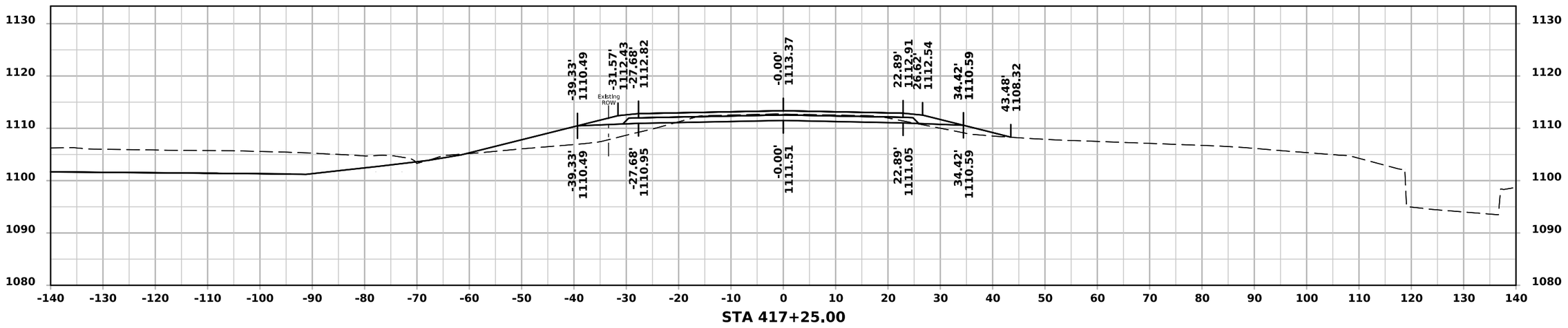
ML - US 6





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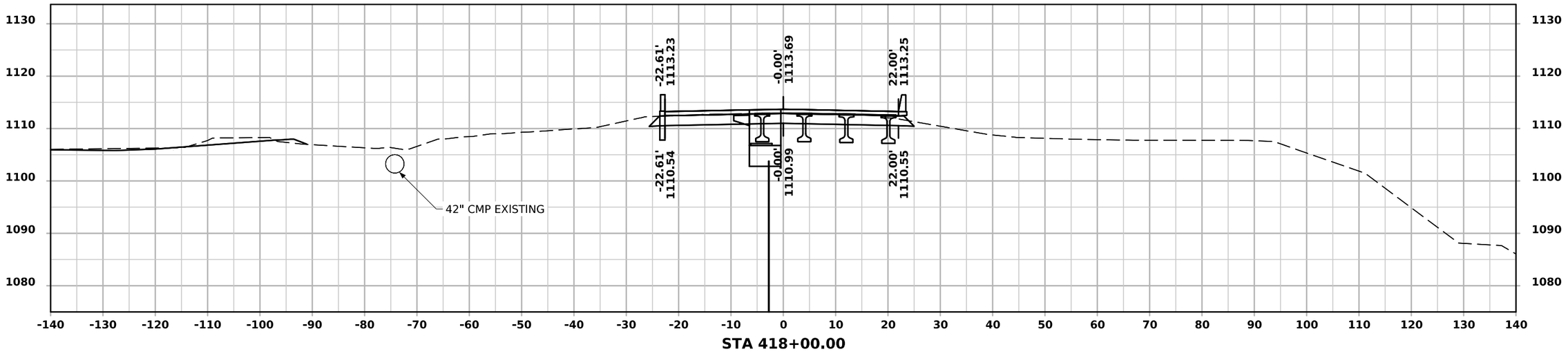
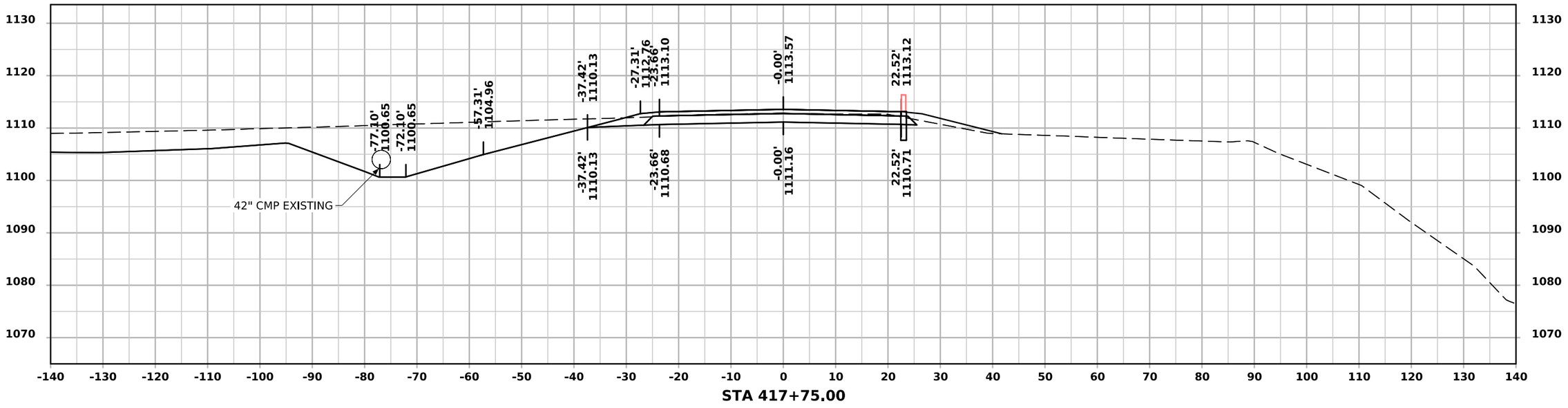
ML - US 6



STA 418+00.00

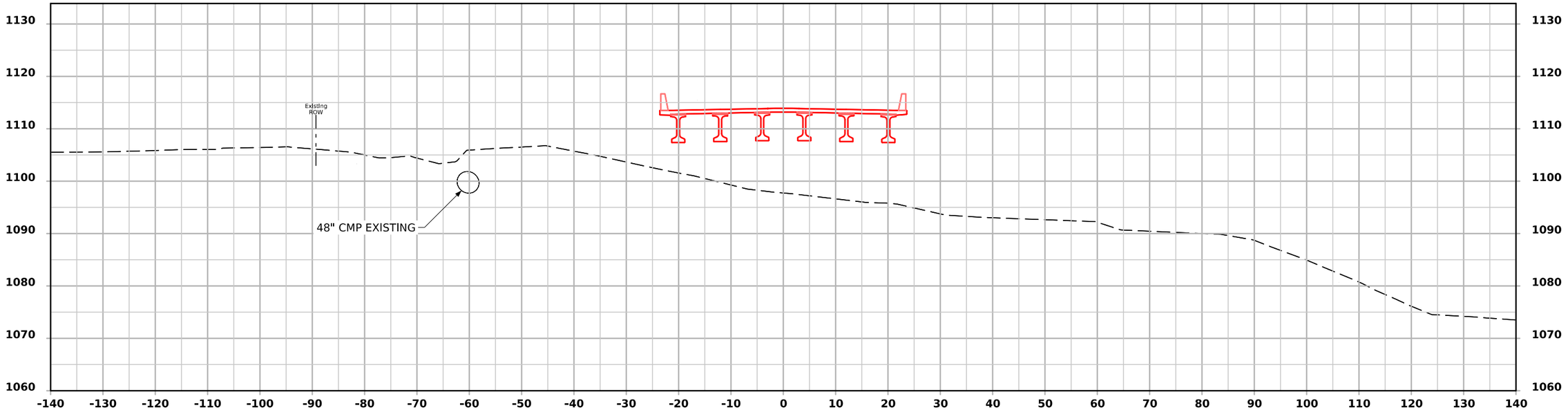


STA 417+75.00

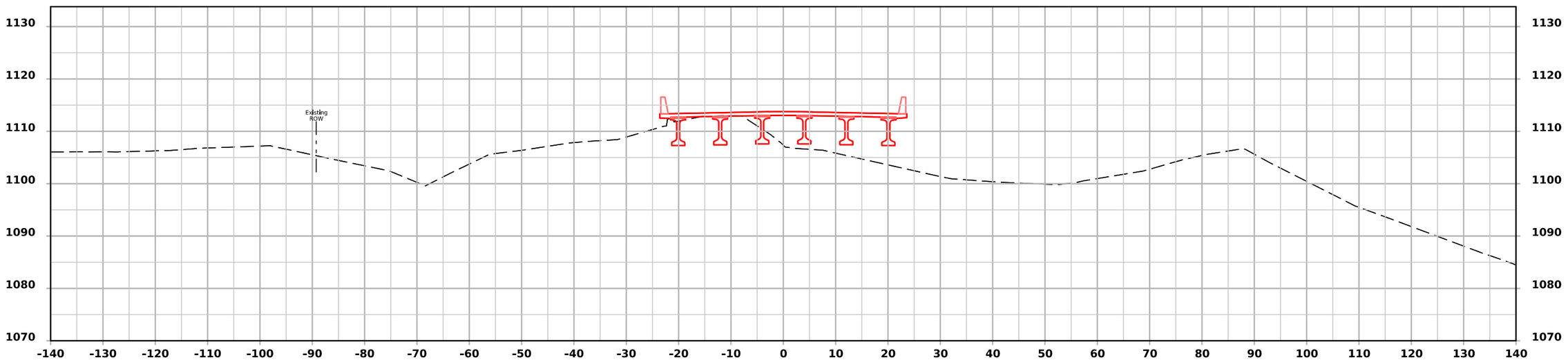
FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.6**

3:14:28 PM 1/22/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_W.dgn

ML - US 6



STA 418+50.00

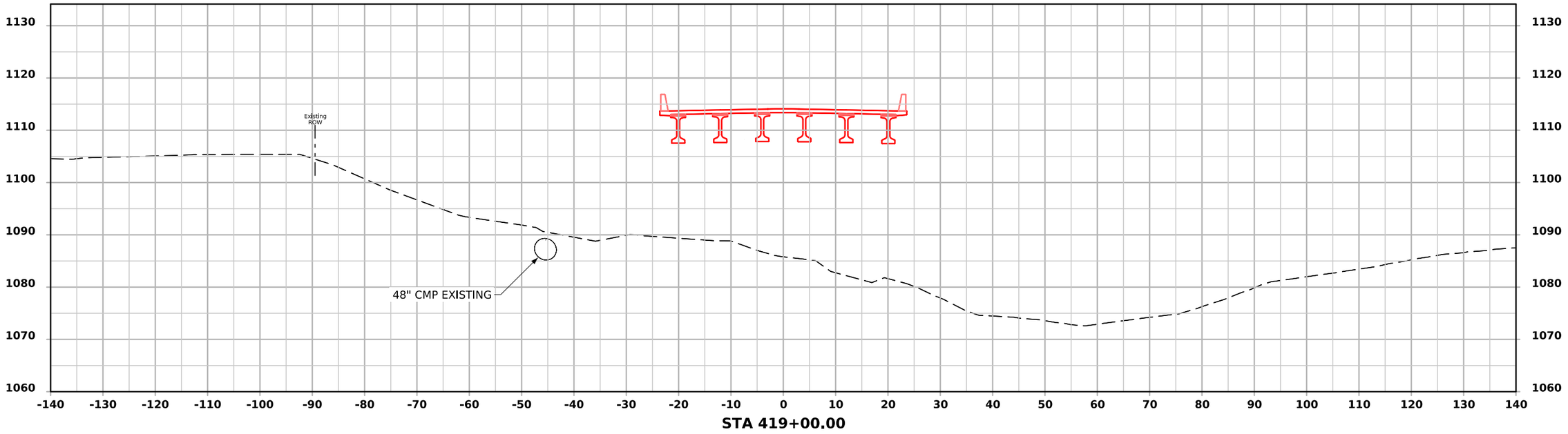


STA 418+25.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.7**

3:14:29 PM 1/22/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_W.dgn

ML - US 6



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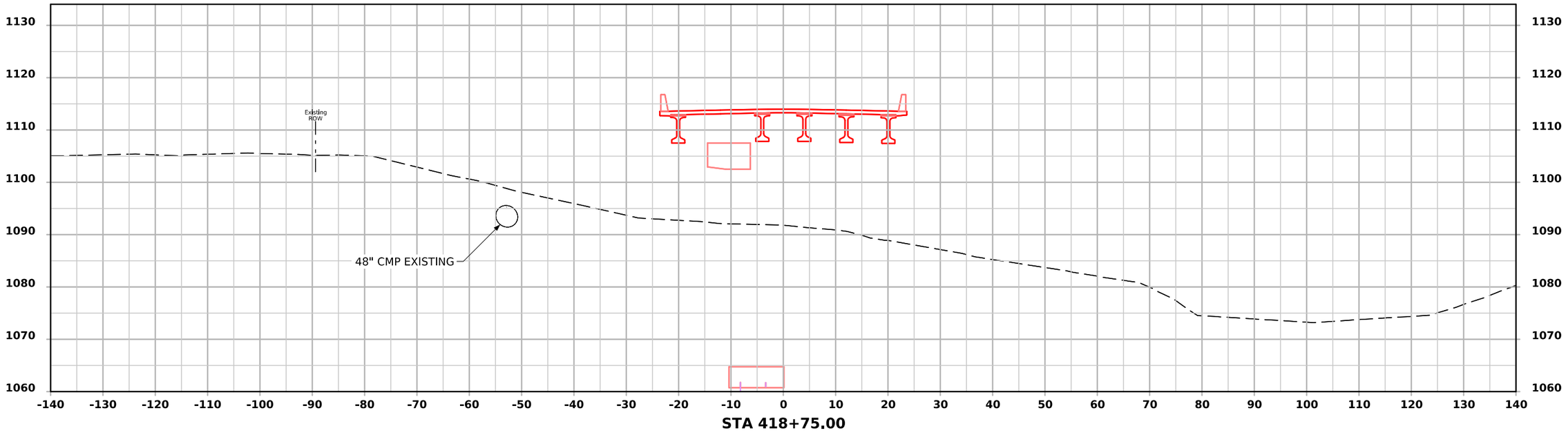
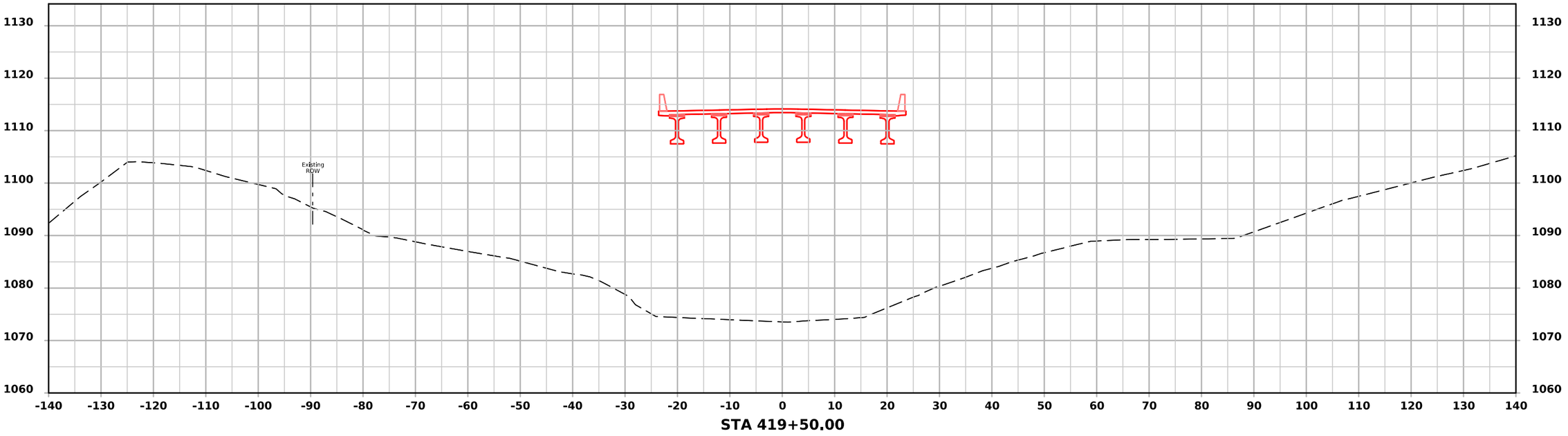


STA 418+75.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.8**

3:14:30 PM 1/22/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_W.dgn

ML - US 6



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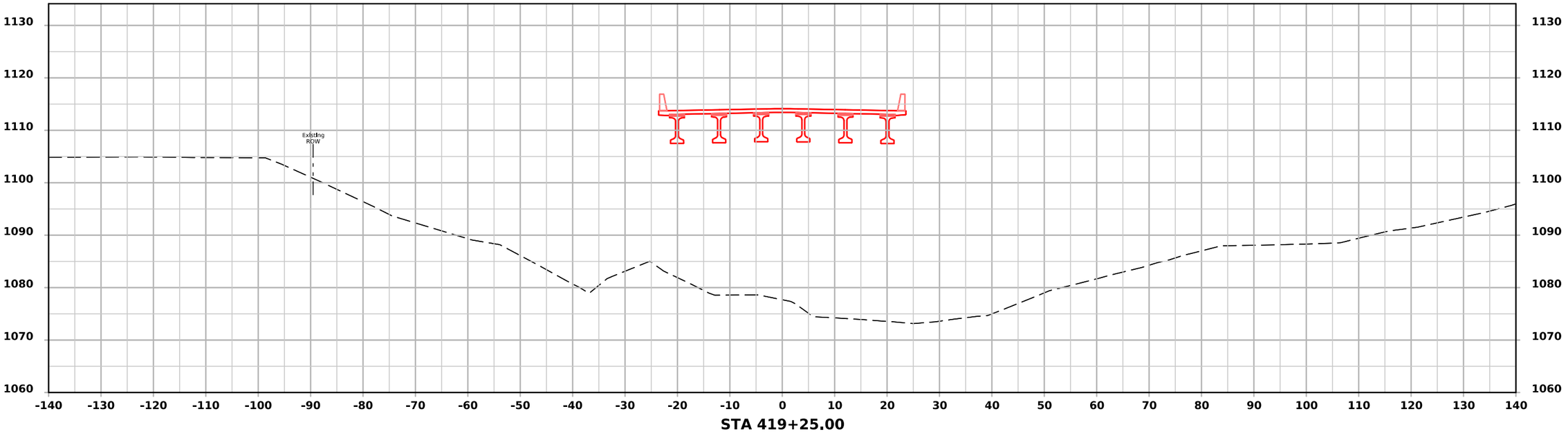
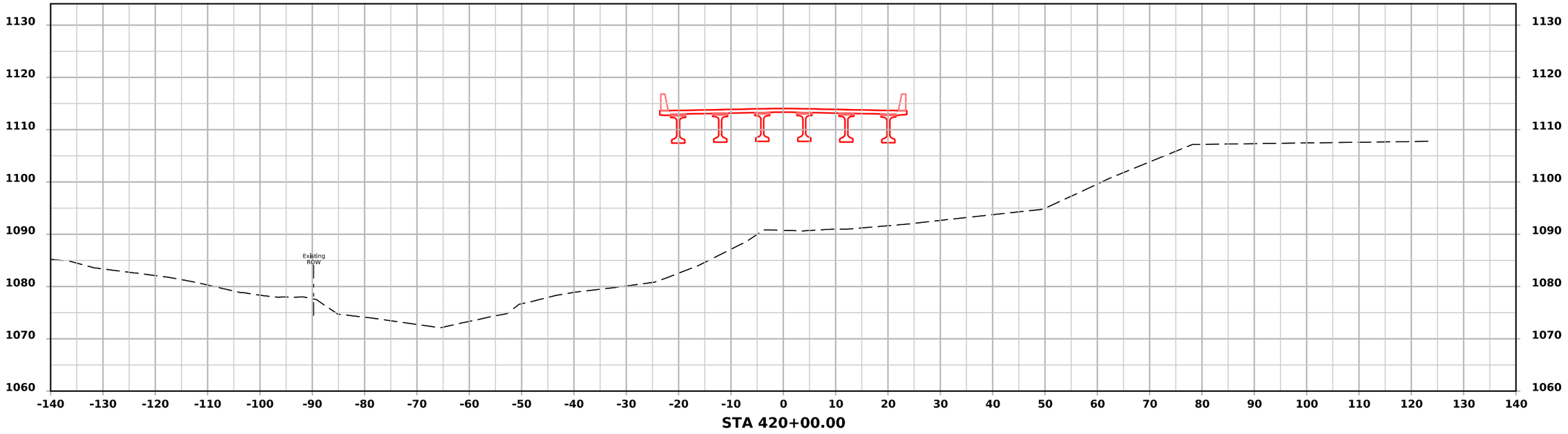


STA 419+25.00

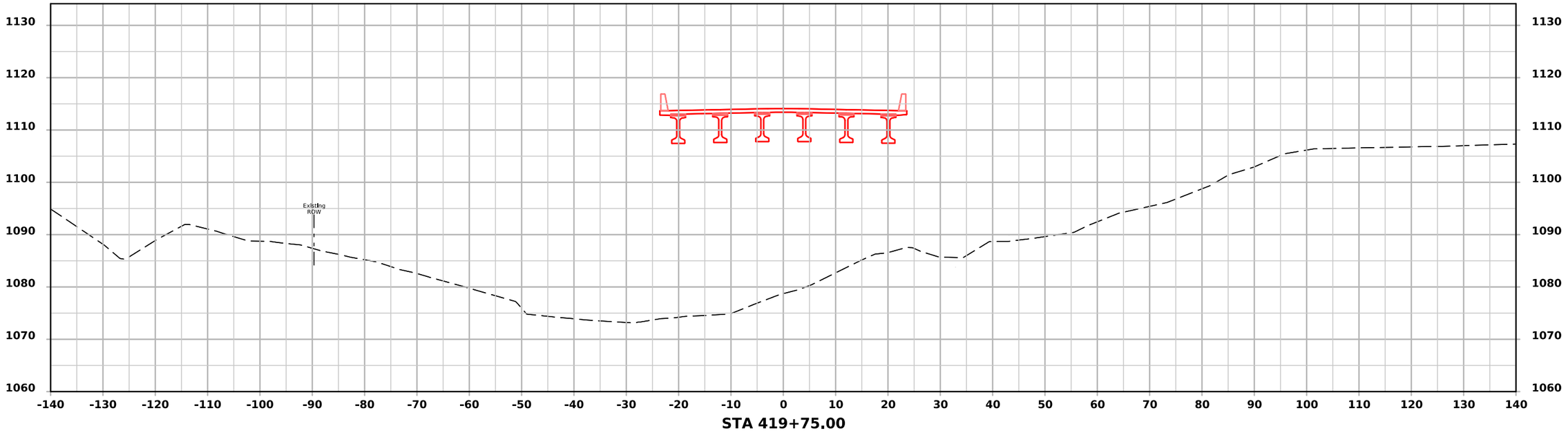
FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.9**

3:14:32 PM 1/22/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_W.dgn

ML - US 6



STA 420+00.00



STA 419+75.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.10**

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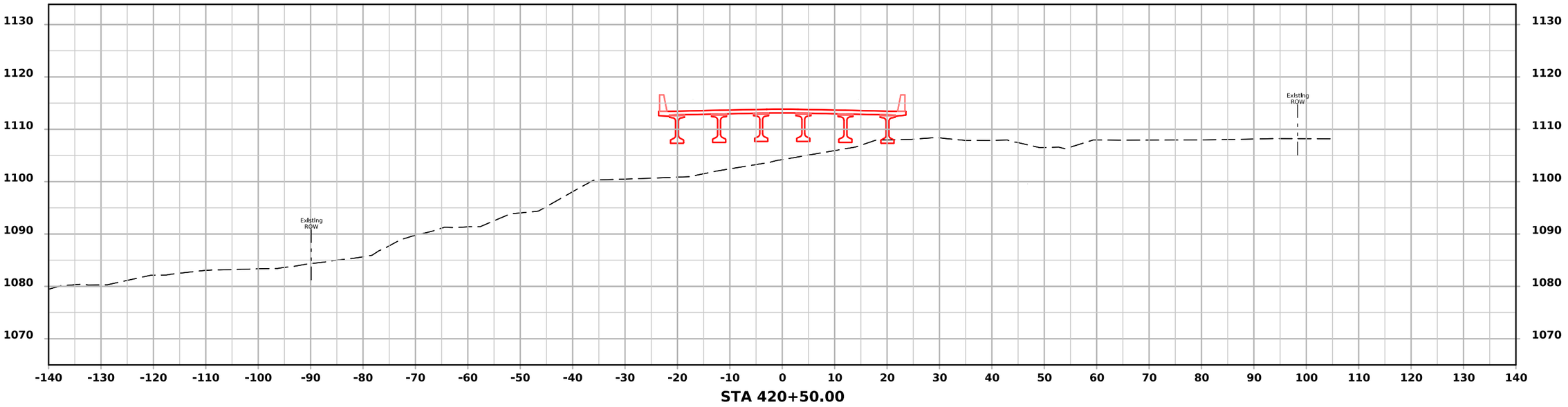
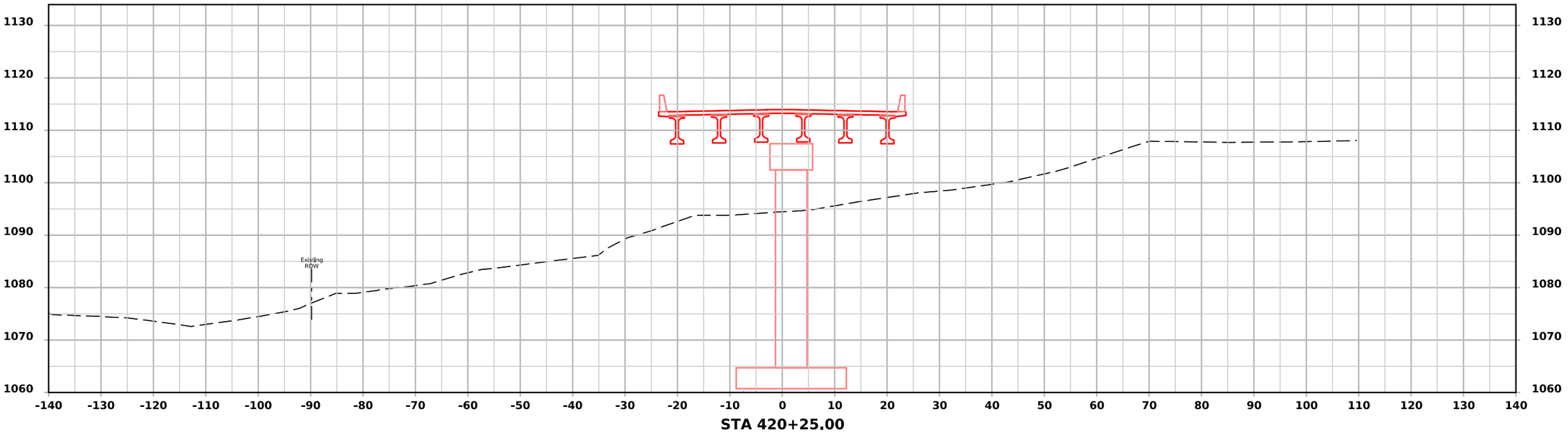
ML - US 6



STA 420+50.00



STA 420+25.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.11**

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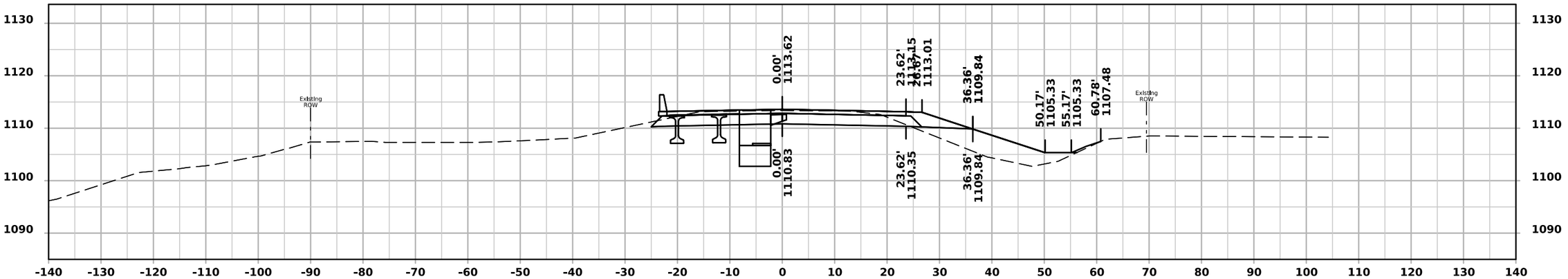
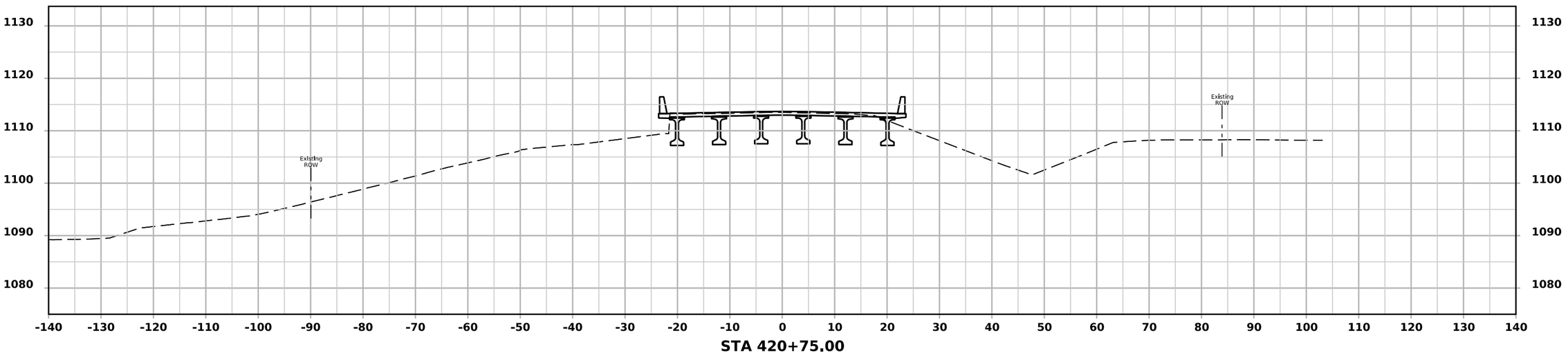
ML - US 6



STA 421+00.00



STA 420+75.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.12**

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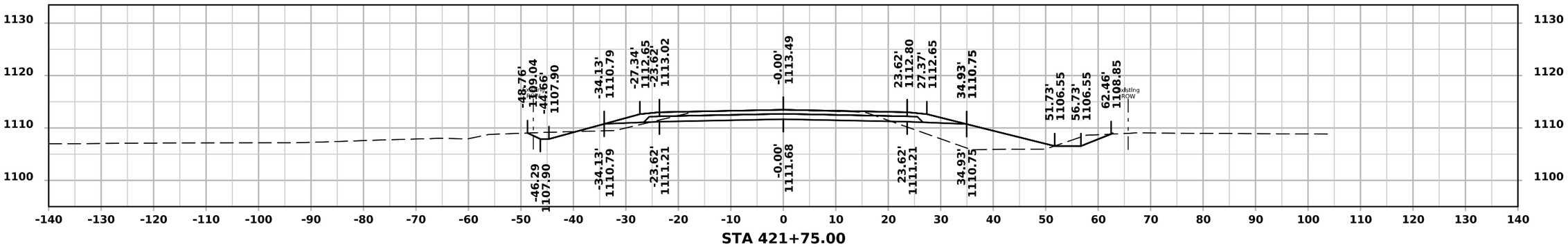
ML - US 6



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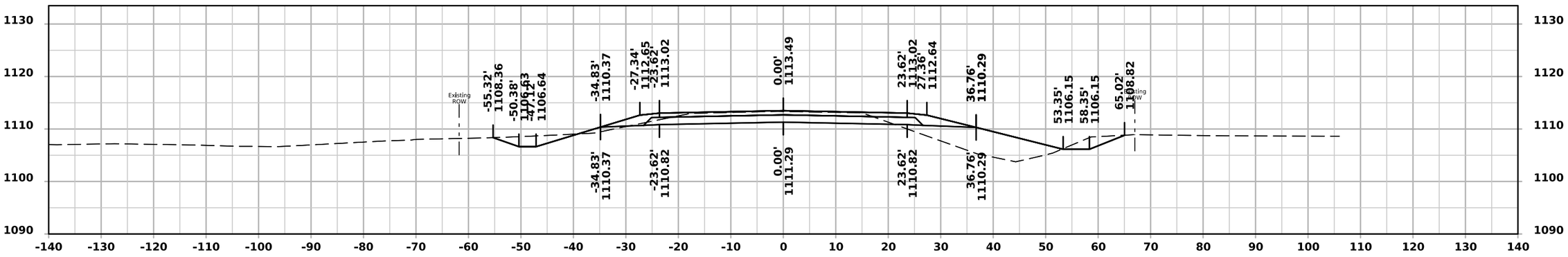
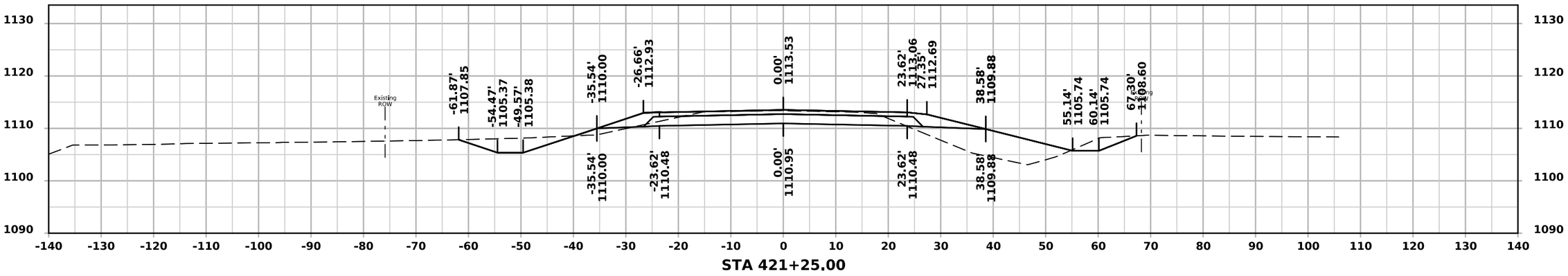


STA 421+50.00



STA 421+25.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.13**

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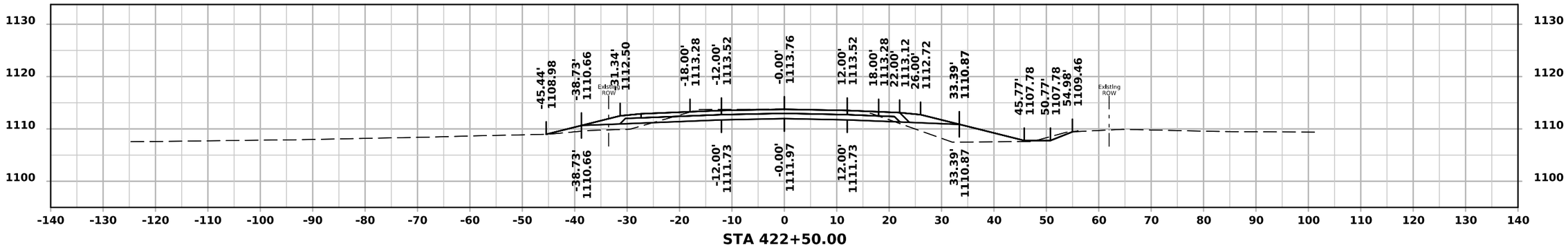
ML - US 6



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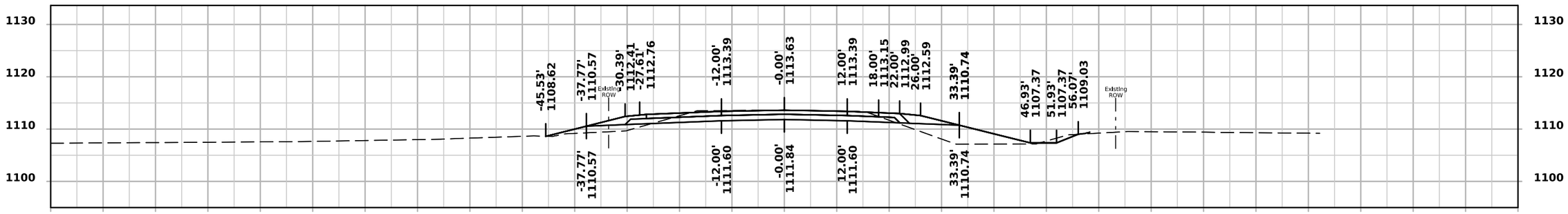

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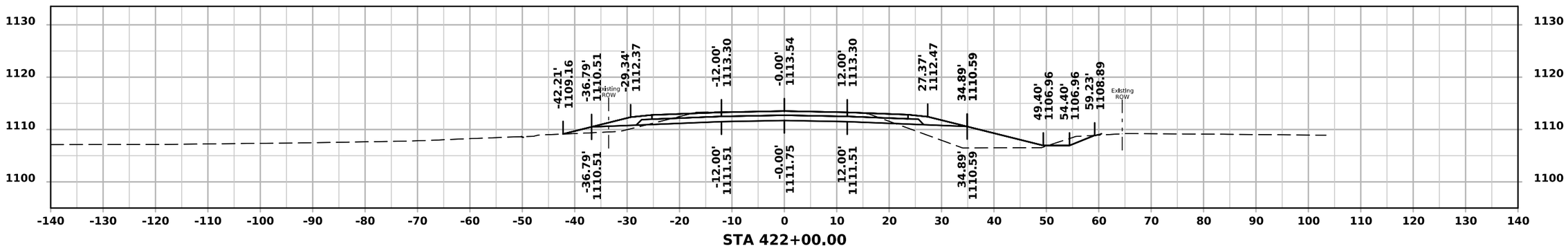

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FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.14**

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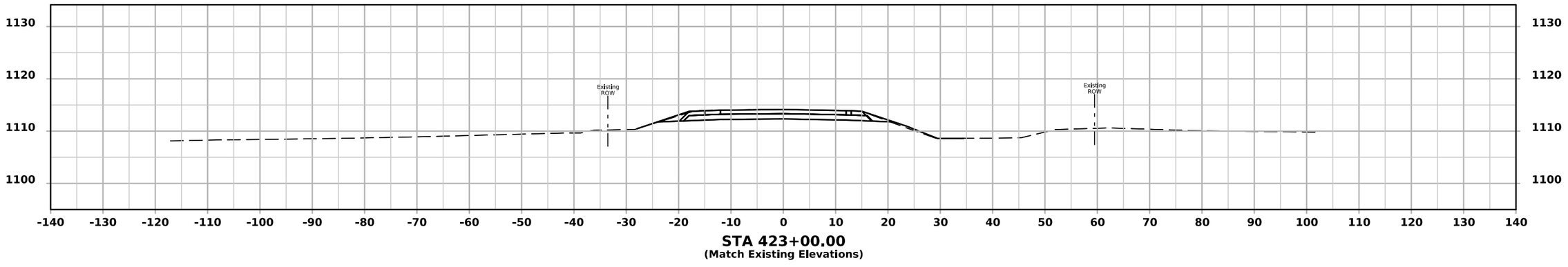
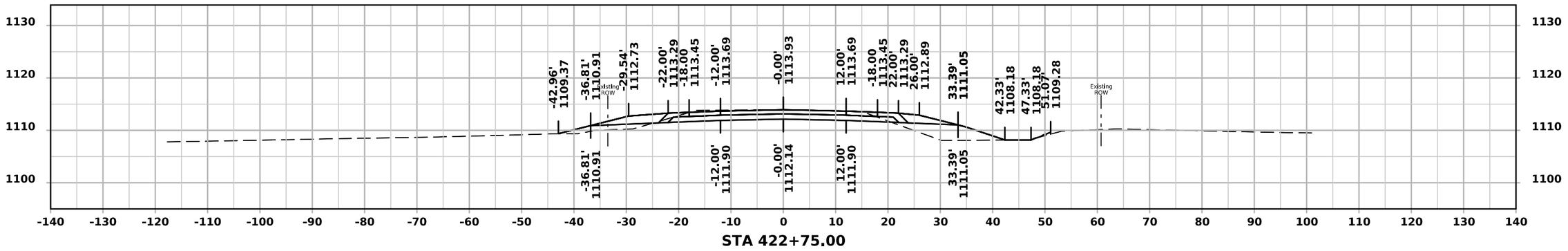
ML - US 6



STA 423+00.00
(Match Existing Elevations)



STA 422+75.00

FILE NO.	ENGLISH	DESIGN TEAM **FOTH**	**POTTAWATTAMIE** COUNTY	PROJECT NUMBER **BRF-006-1(135)--38-78**	SHEET NUMBER **W.15**

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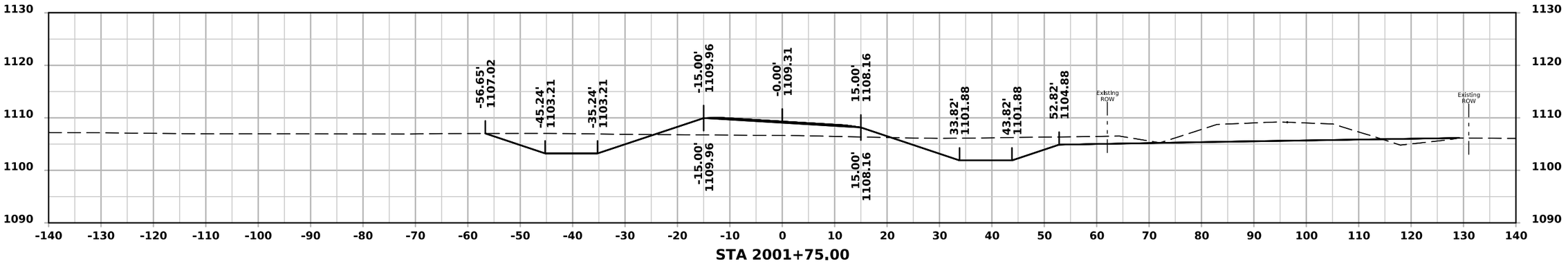
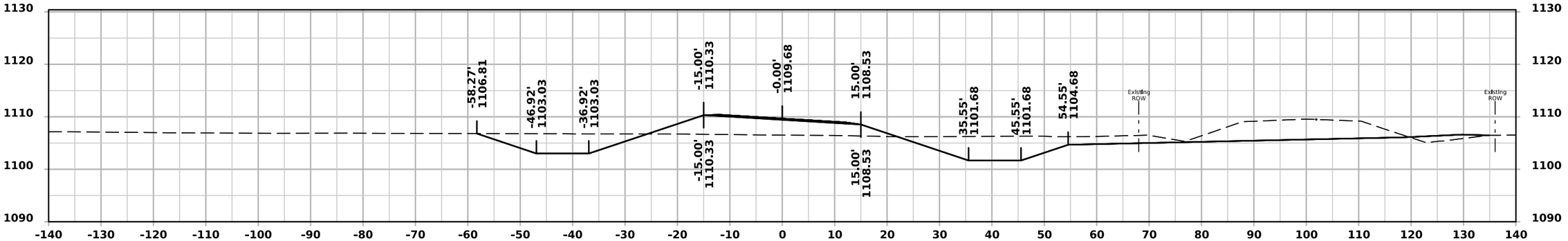
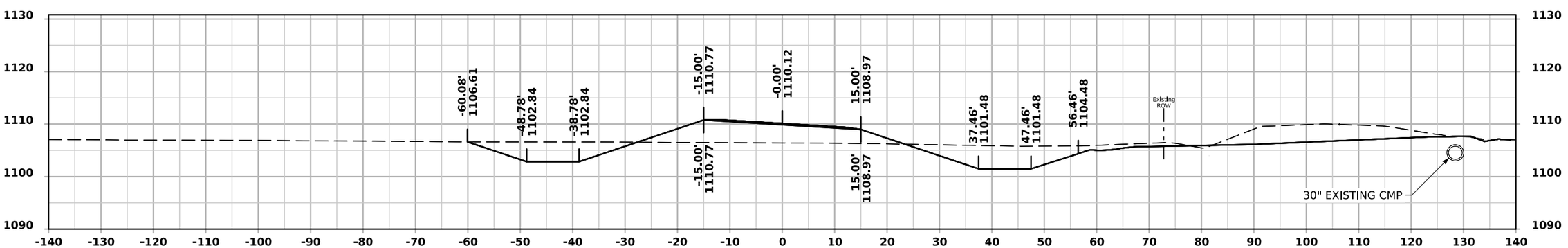
SR - 350TH ST



STA 2001+75.00



STA 2001+50.00



STA 2001+25.00

FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER X.1	

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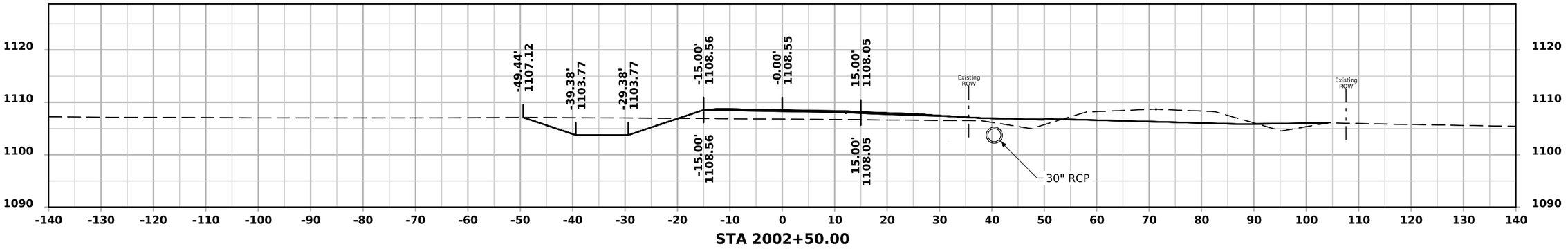
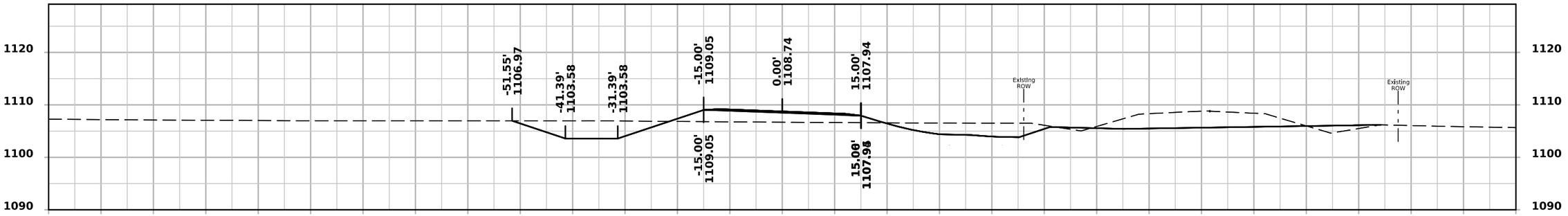
SR - 350TH ST



STA 2002+50.00



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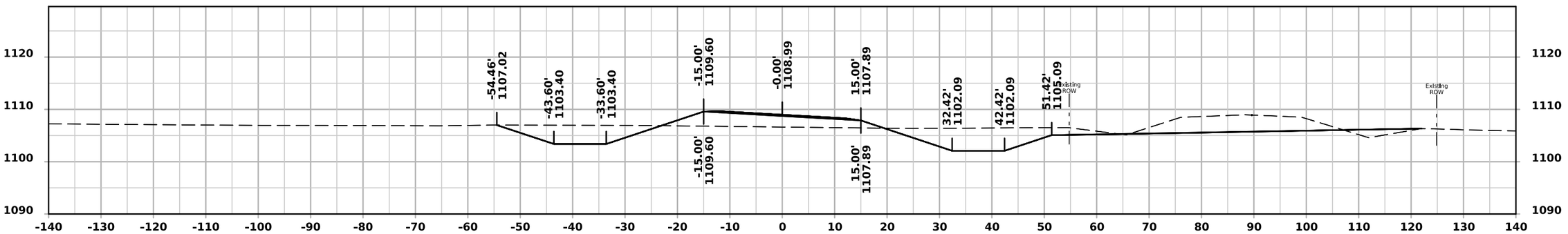

STA 2002+00.00

FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER X.2

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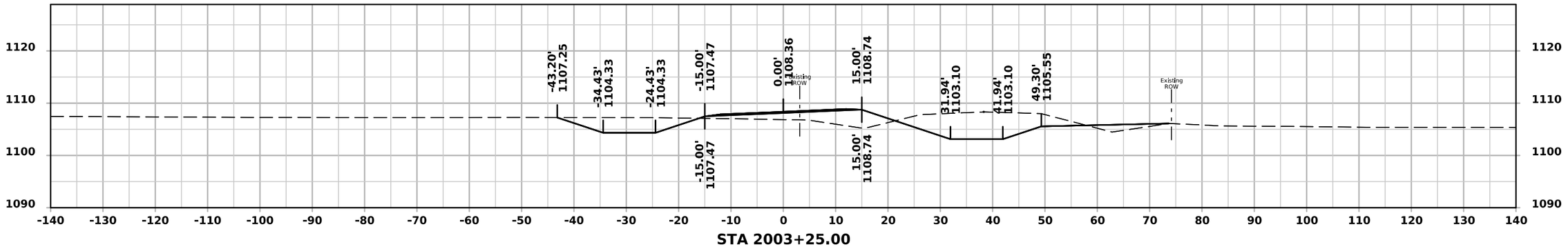
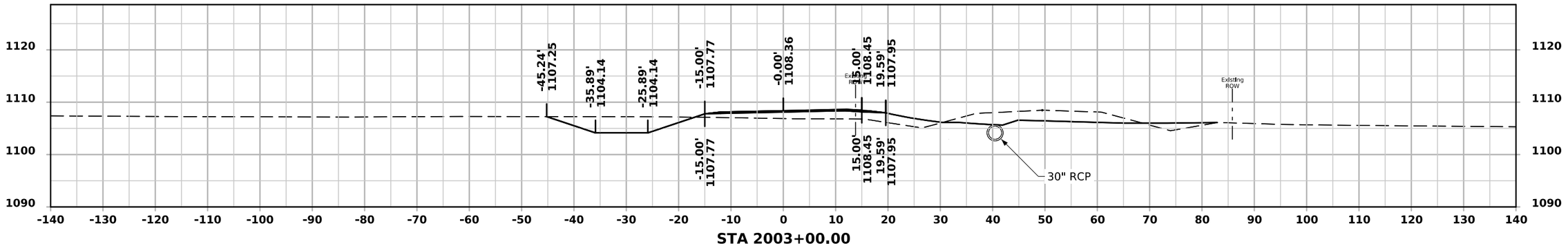
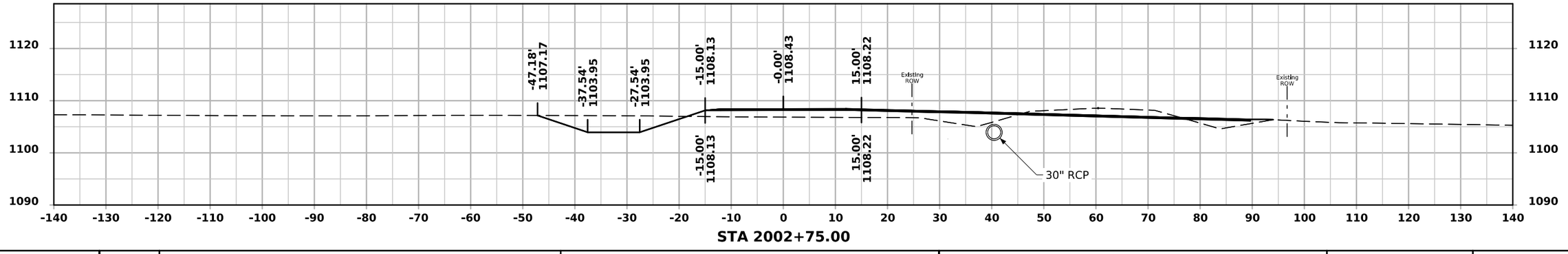
SR - 350TH ST



STA 2003+25.00



STA 2003+00.00



STA 2002+75.00

FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER X.3

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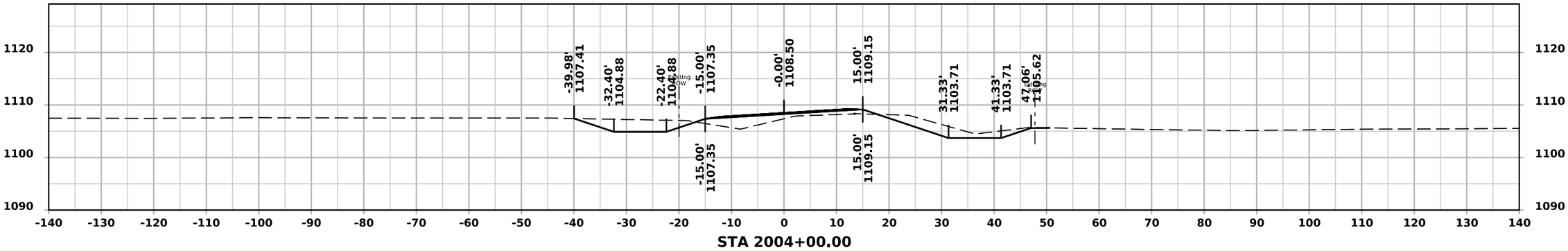
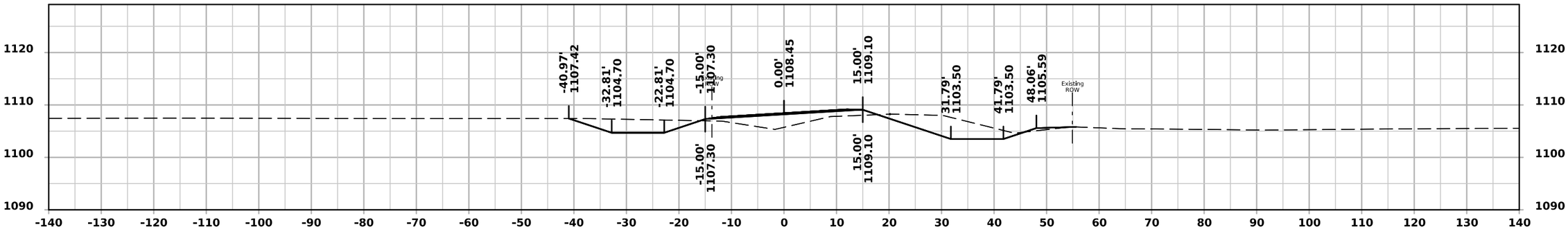
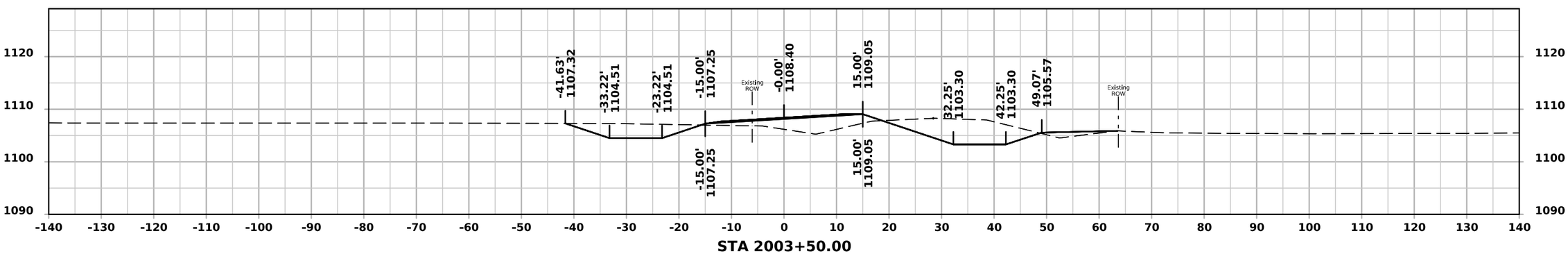
SR - 350TH ST



STA 2004+00.00



STA 2003+75.00

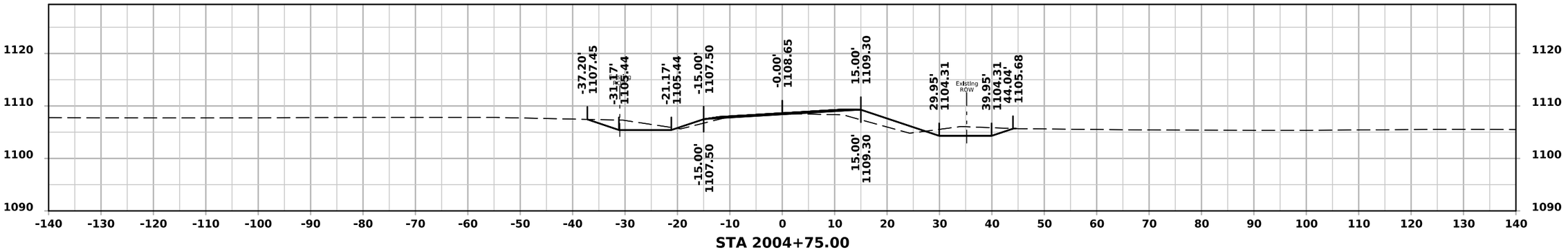


STA 2003+50.00

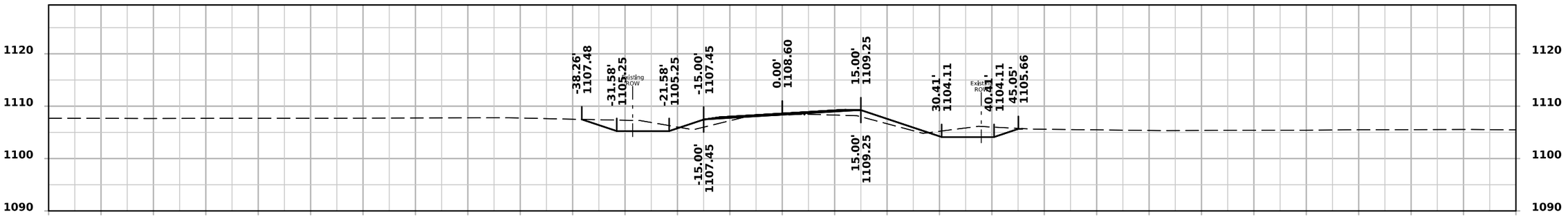
FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER X.4	

1:50:25 PM 1/22/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_X.dgn

SR - 350TH ST



STA 2004+75.00



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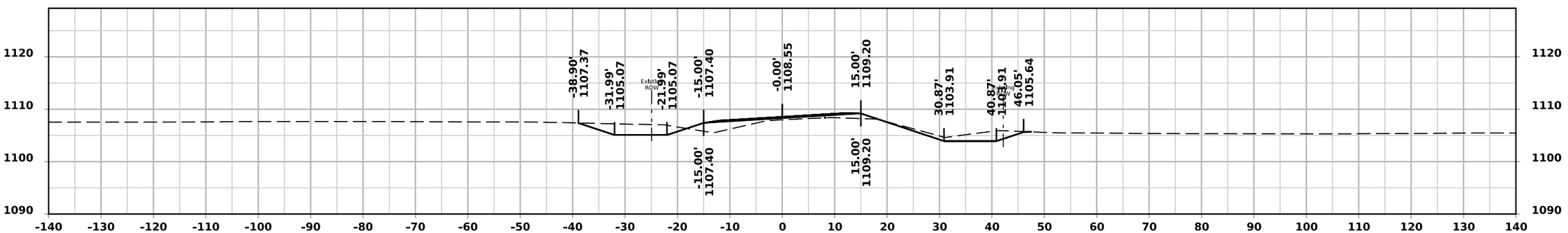
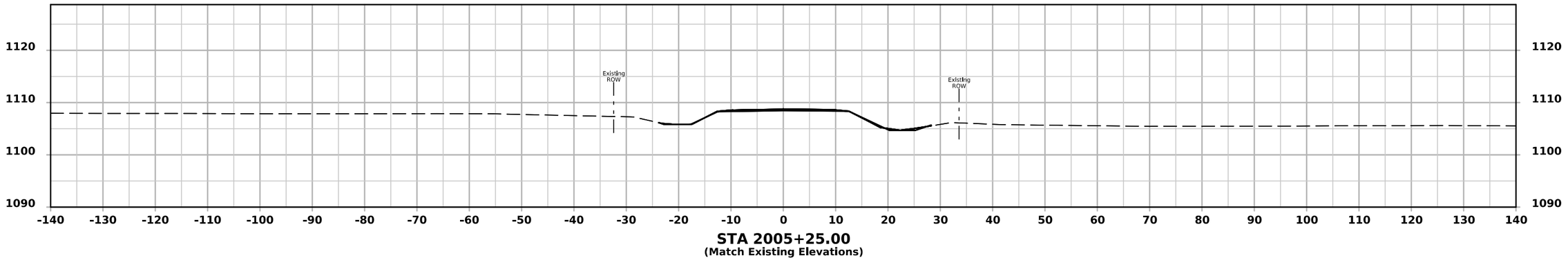


STA 2004+25.00

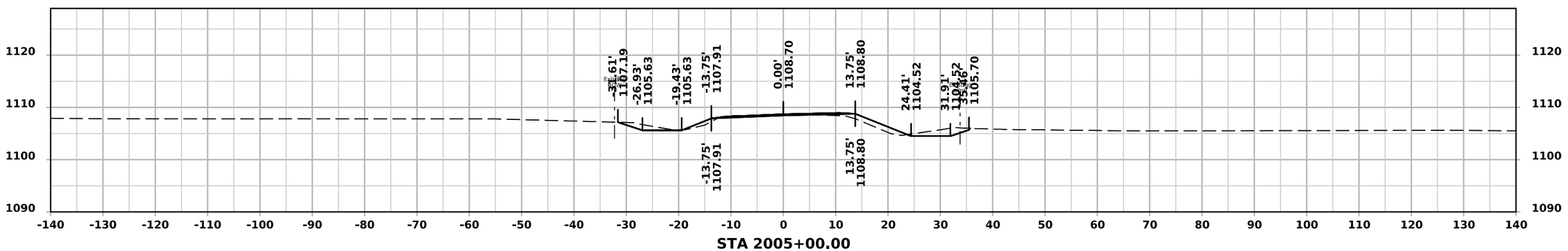
FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER X.5

1:50:26 PM 1/22/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_X.dgn

SR - 350TH ST



STA 2005+25.00
(Match Existing Elevations)



STA 2005+00.00

FILE NO.	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY	PROJECT NUMBER BRF-006-1(135)--38-78	SHEET NUMBER X.6

1:05:25 PM 1/23/2026 nxr1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7800603024\Design\CADD_Files\Cross_Sections\SHT_78006135_X.dgn