LETTING DATE 11/21/2028

Bridge Unspecified

IMX-080-2(277)72--02-15

CASS COUNTY

IOWA DOT

REVISIONS

TOTAL
--
PROJECT IDENTIFICATION NUMBER
23-15-080-020
PROJECT NUMBER
IMX-080-2(277)72--02-15
R.O.W. PROJECT NUMBER
IMN-080-2(280)72--0E-15
--
--

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM

CASS COUNTY

Bridge Unspecified

770th St 1.7 mi E of IA 148 (EB/WB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

Schedule :

D3 : 01/28/2026

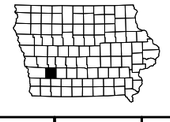
D5: 06/12/2026

D4: 07/11/2028

PRELIMINARY PLANS

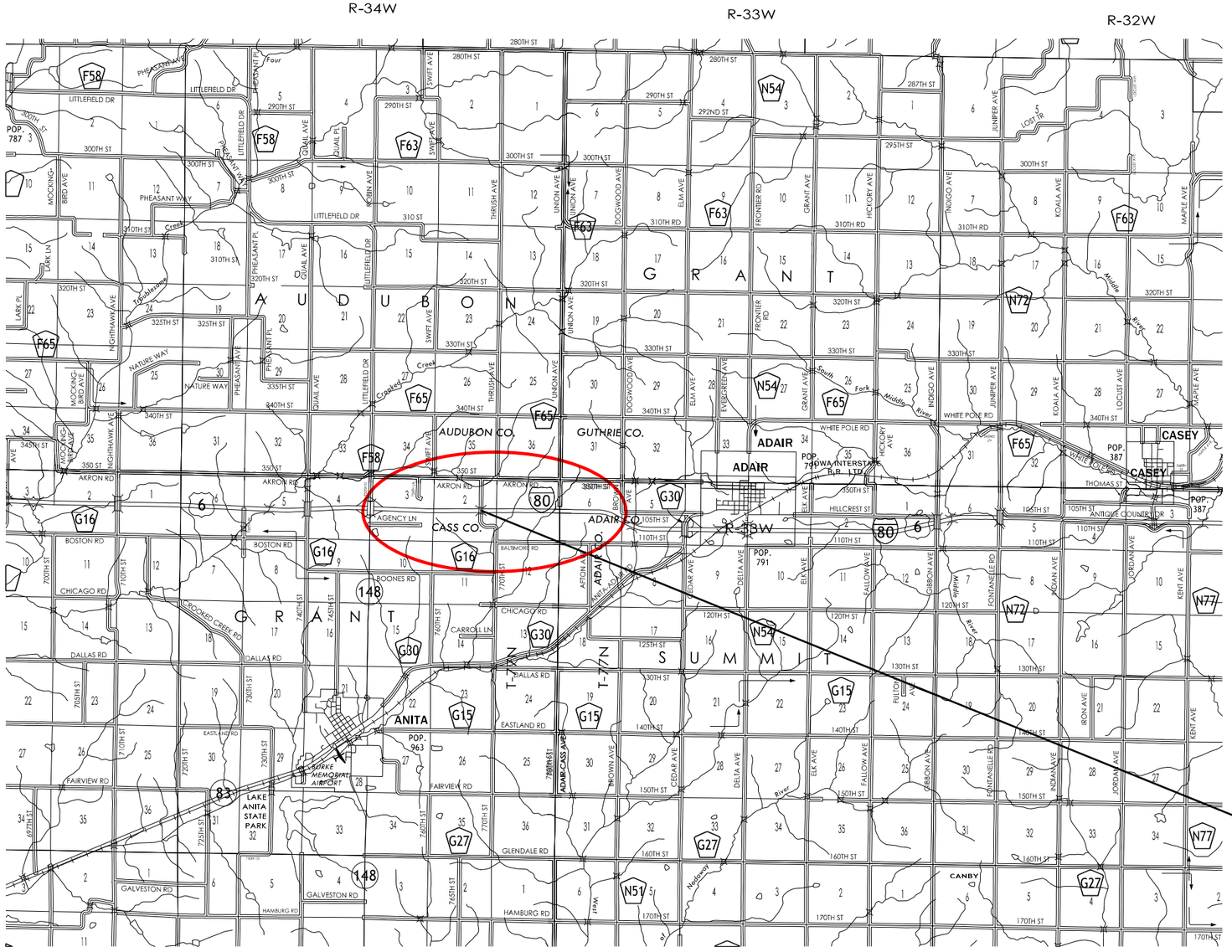
Subject to change by final design.

D2 PLAN -01/20/2026



770th St - AADT 15

DESIGN DATA RURAL			
2028	AADT	25,600	V.P.D.
2048	AADT	33,800	V.P.D.
2048	DHV	3,490	V.P.H.
TRUCKS		41	%
Total Design ESALs		–	



FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER A.2

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IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: District 4 **DATE:** May 15, 2025

ATTENTION: Scott Schram **PROJECT:** Cass County
IMX-080-2(277)72--02-15
PIN: 23-15-080-020

FROM: John E. Bartholomew

BUREAU: Design

SUBJECT: Project Concept Statement; (Final, D0)

This project involves the replacement of the eastbound and westbound I-80 bridges (Maint. No. 1572.1R080 (EB), 1572.2L080 (WB)) over 770th St., 1.7 mi E of IA 148.

A meeting was held on January 6, 2025. Those present included Wes Mayberry from the District 4 Office; Jimmy Ellis from the Bridges and Structures Bureau; Kyle Berg, Heidi Lane and Edward Sowder from HNTB; Luka Arroyo from the Project Management Bureau and John Bartholomew and Hollie Richey from the Design Bureau.

There is only one Alternative for this project:

1. Replace the eastbound and westbound I-80 bridges with dual 189 ft. x 54 ft. pretensioned prestressed concrete beam (PPCB) bridges utilizing staged construction. Estimated cost for this project is **$8,888,000**.

Additional right of way may be required. Traffic will be maintained by staged construction.

The Draft Project Concept Statement was sent out for review and comment with concerns to be resolved by **Wednesday, May 14, 2025**. Comments received during the review period have been considered and resolved.

This project is recommended for construction in FY 2029. The Bridges and Structures Bureau will coordinate plan preparation with assistance from the Design Bureau.

JEB:hsr
Attach.
cc:

C. Purcell	K. D. Nicholson	Y. Jia
M. Dell	J. S. Nelson	M. Nop
M. A. Swenson	D. E. Sprengeler	C. C. Poole
S. Majors	A. Poole	K. Brink
D. L. Newell	A. Yates	J. W. Laaser-Webb
W. A. Sorenson	E. C. Wright	M. E. Ross
A. A. Welch	J. Harris	M. Van Dyke
B. Hofer	G. Karssen	D. Johnson
H. Naraghi	S. Anderson	D. Stokes
J. Holst	R. Harris	B. Dolan
T. Lovan	M. Solberg	T. Gustafson
D. Dudley	L. Armstrong	B. Smith
J. Hauber	S. Sersland	R. Meyer
M. E. Khoda	M. Gordy	M. Todsen
J. Ellis	B. Asberry	J. Keller
J. Sallach	J. Garton	O. Lechnowsky
J. Cihacek	D. Redmond	N. Epperson
S. Suhr	J. Woodcock	C. Asberry
W. Mayberry	C. Schwienebart	T. Frank
N. Mocha	FHWA	

FINAL PROJECT CONCEPT STATEMENT

I-80 Bridge over 770th St., 1.7 miles east of IA 148 (EB/WB).

Cass County
IMX-080-2(277)72--02-15
PIN: 23-15-080-020
Maint. No. 1572.1R080 (EB), 1572.2L080 (WB)
FHWA No. 18210 (EB), 18220 (WB)

Highway Division
Design Bureau

John Bartholomew, P.E.
515-239-1540

May 15, 2025

I. STUDY AREA

A. Project Description

This project involves the replacement of the eastbound and westbound I-80 bridges (Maint. No. 1572.1R080 (EB), 1572.2L080 (WB)) over 770th St., 1.7 mi E of IA 148.

Alternative 1 - Replace the eastbound and westbound I-80 bridges with dual 189 ft. x 54 ft. pretensioned prestressed concrete beam (PPCB) bridges utilizing staged construction. Estimated cost for this project is **$8,888,000.**

B. Need for Project

I-80 EB is a 162 ft. x 30 ft. prestressed concrete beam bridge that was built in 1958. It was overlaid in 1982 and has now reached the end of its service life. The deck is thin with full depth patching and leaching cracks. The beams have spalls with exposed steel. The abutment has a large patch across the entire length. Due to the condition of the bridge, a replacement is recommended.

I-80 WB is a 162 ft. x 30 ft. prestressed concrete beam bridge that was built in 1958. It was overlaid in 1982 and has now reached the end of its service life. The deck is thin with leaching cracks and spalls with exposed steel. The beams have spalls with broken strands and corroding stirrups, leaching cracks, and hollows. The substructure has spalls with exposed steel and delamination. Due to the condition of the bridge, a replacement is recommended.

Photos from SIIMS

2019
Looking north at EB Bridge

2011
Left Profile N-F FHWA 18210 EB

2013
With Route FHWA 18210 EB

2013
Against Route FHWA 18210 EB

2011
With Route FHWA 18220 WB

2013
Right Profile N-F FHWA 18220 WB

C. Present Facility

The existing eastbound structure is a 162 ft. x 30 ft., prestressed concrete beam bridge constructed in 1958 and overlaid in 1982.

The existing westbound structure is a 162 ft. x 30 ft., prestressed concrete beam bridge constructed in 1958 and overlaid in 1982.

I-80 in the project area is 24 ft. wide PCC pavement with 6 ft. wide paved inside shoulders and 10 ft. paved outside shoulders and 3:1 foreslopes, 11.5 in. PCC reconstruction was accomplished in 1987 for I-80 westbound and 1988 for I-80 eastbound. HMA resurfacing of 1.5 in. was accomplished in 2022 on the I-80 eastbound lanes.

D. Traffic Estimates

The 2028 construction year and 2048 design year average daily traffic estimates are 25,600 ADT with 41% trucks and 33,800 ADT with 41% trucks, respectively.

E. Sufficiency Ratings

I-80 is classified as an interstate route and is a maintenance service level "A" roadway. The Bridge Condition Index is 63.7 (EB) and 59.0 (WB) and the Bridge Condition Rating is " Fair " for both EB and WB bridges.

F. Access Control

Access rights will not be acquired for this project.

G. Crash History

During the five-year study period from January 1, 2020 through December 31, 2024, there were 11 crashes including, 1 fatal crashes, 3 personal injury crashes, and 7 personal property crashes. I-80 in the project area has a PCR level for all crashes of 1.393320 crash/mile/year and is listed as "High". The PCR level for severe crashes is 0.000000 and is listed as "Negligible".

II. PROJECT CONCEPT

A. Feasible Alternatives

Alternative #1 – Replace the eastbound and westbound I-80 bridges with dual 189 ft. x 54 ft. pretensioned prestressed concrete beam (PPCB) bridges utilizing staged construction

The existing 162 ft. x 30 ft., PPCB bridges will be replaced with 3 span, dual 189 ft. x 54 ft., PPCB bridges.

The typical cross section adjacent to the bridge approach will consist of a 24 ft. wide roadway with 10 ft. outside and 6 ft. wide inside shoulder.

This bridge will be constructed on the existing vertical and horizontal alignment. New bridge approaches will be constructed. The existing guardrail will be replaced with new guardrail and the shoulders will be paved 20 ft. beyond the ends of the guardrail. Class 10 will be necessary to flatten the existing foreslopes and to construct the new guardrail blisters. Class E revetment will be placed under the bridge for slope protection. New bridge end drains will be constructed on both corners on the east end of both bridges.

Apply erosion control and rural seeding and fertilizing to all disturbed areas.

Right of Way appears to be required for this project. It is programmed for $13,000.

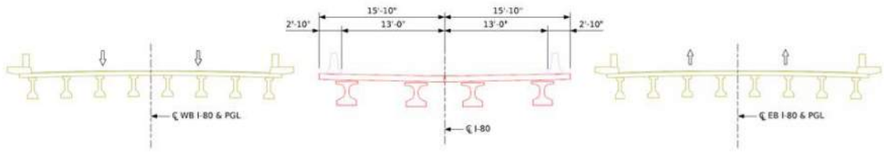
Two lanes of traffic in each direction will be maintained via staged construction at all times. Nighttime work will be required with this project.

Bridge Items	Estimated Costs
New Bridge	$ 3,842,000
Bridge Removal	214,000
Mobilization - 10%	406,000
M & C - 20%	892,000
Bridge Costs	**$ 5,354,000**
Right of Way	**$12,000**
Roadway Items	
Bridge Approaches	$412,900
Removal of Pavement	22,700
Excavation Class 13 Waste	68,400
Embankment in Place, contractor furnished	101,400
Modified Subbase	166,500
Temporary Pavement	723,100
Slotted Drain	368,200
Guardrail (Includes Removal)	24,200
Paved Shoulders for Guardrail	55,700
Class 10 for Guardrail Blisters	20,000
Bridge End Drains	15,300
Seeding and Fertilizing	1,900
Erosion Control	50,000
Nightwork	435,100
Traffic Control - 5%	176,100
Mobilization - 5%	176,100
M & C - 20%	704,400
Roadway costs	**$ 3,522,000**
Project Total	**$ 8,888,000**

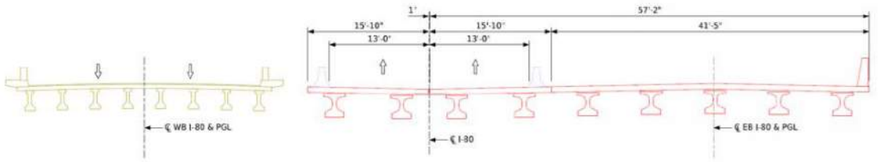
B. Staging Analysis

Existing condition:

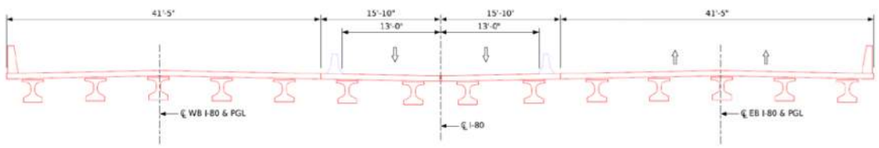
Stage 1: Construct median bridge.
Eastbound and westbound traffic will be on existing bridges.



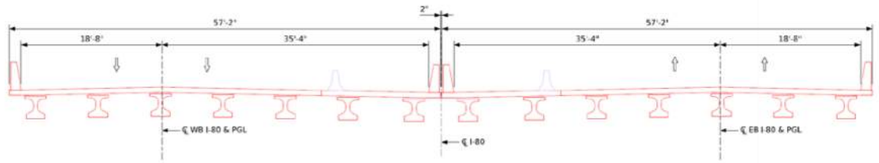
Stage 2: Eastbound traffic shifted onto median bridge. New eastbound bridge constructed. Westbound traffic maintained on existing bridge.



Stage 3: Westbound traffic shifted onto median bridge. Eastbound traffic shifted on to newly constructed eastbound bridge. New westbound bridge constructed.



Stage 4: Both eastbound and westbound traffic final layout.



C. Recommendations

It is recommended that the present structures be replaced, as described in Alternative No. 1. The estimated cost of alternative 1 is **$8,888,000.**

D. Construction Sequence

It is anticipated that all work on this project will be awarded to one prime contractor. The Bridges and Structures Bureau will coordinate the plan preparation with assistance from the Design Bureau.

E. ADA Accommodations

There are no bike paths or sidewalks adjacent to I-80; therefore, no ADA accommodations are planned in conjunction with this project.

F. Special Considerations

This will be a traffic critical project.

No bike path or sidewalk will be required as part of this project.

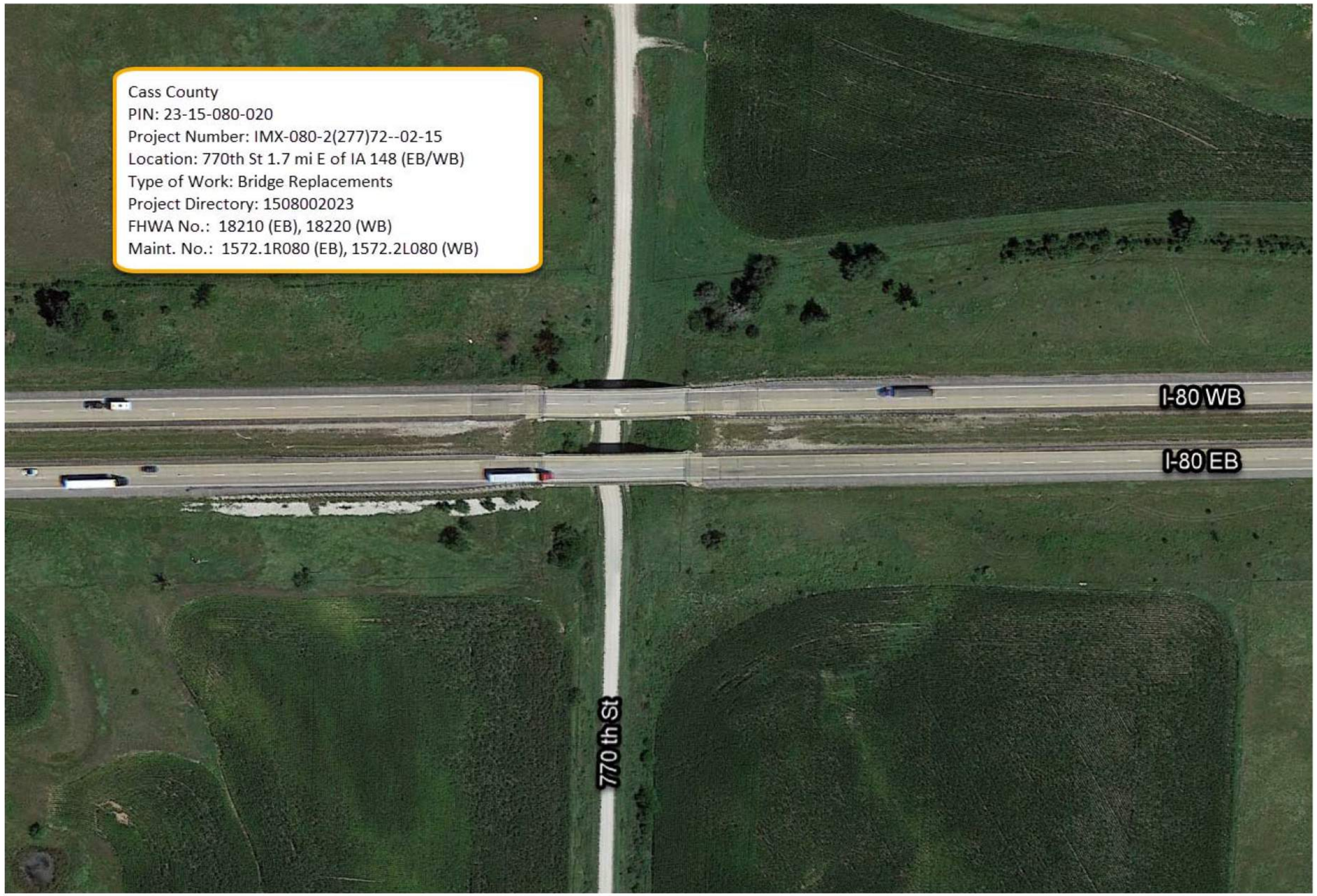
Right of Way appears to be required for this project. It is programmed for $13,000.

After review of the subject project, the Location and Environment Bureau has made a determination of NO 404 PERMIT REQUIRED. The proposed project is primarily a Bridge Replacement project that will not impact any regulated waters or natural resources.

G. Program Status

Site data has been developed by the Design Bureau. This project is listed in the Draft 2026-2030 Iowa Transportation Improvement Program, with $12,000 programmed for right of way in FY 2029, and $9,542,000 for replacement in FY 2029. Costs for this project may be eligible for bridge replacement funds. A schedule of events will be developed following approval of the Project Concept.

JEB:hsr



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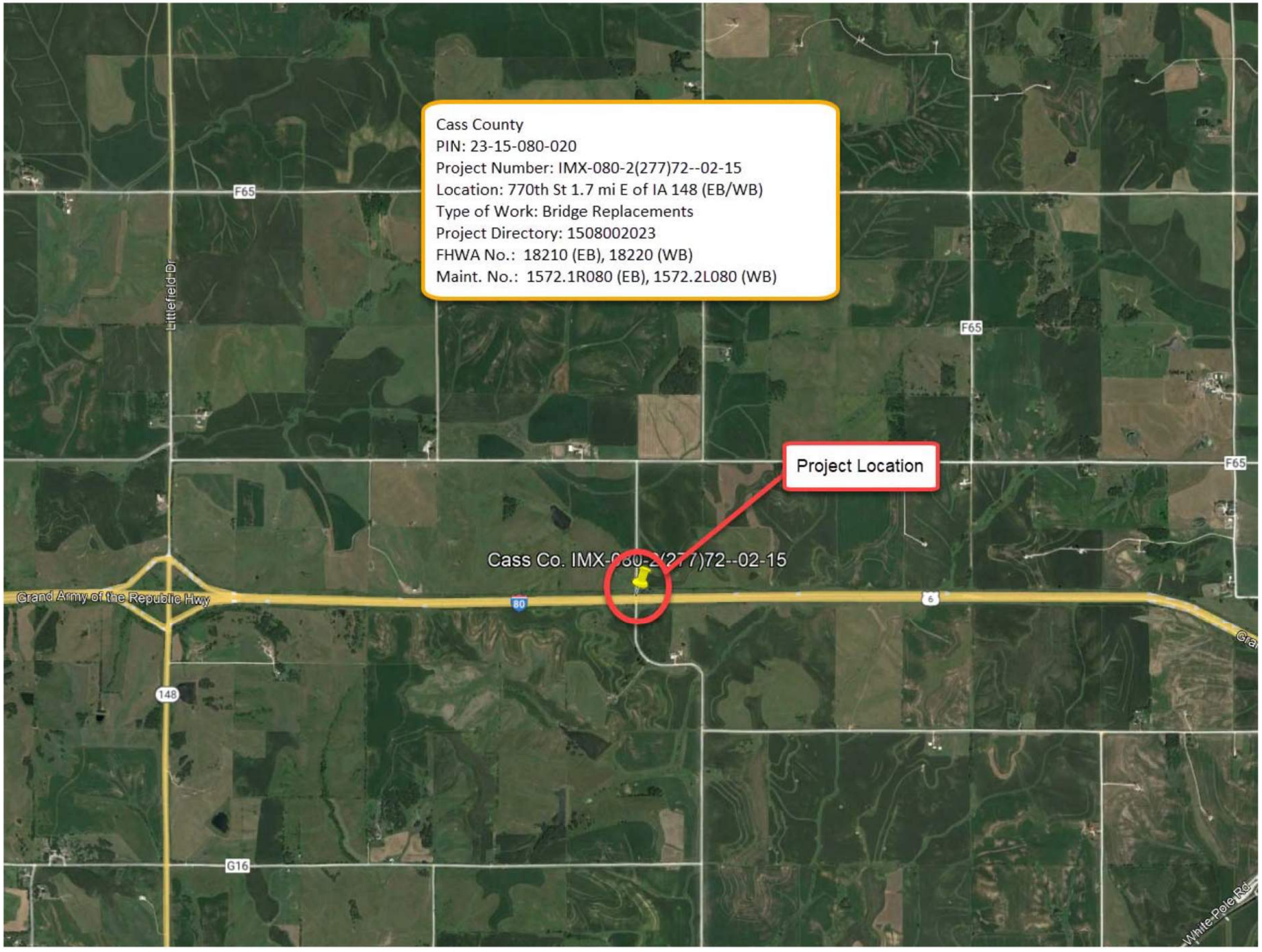

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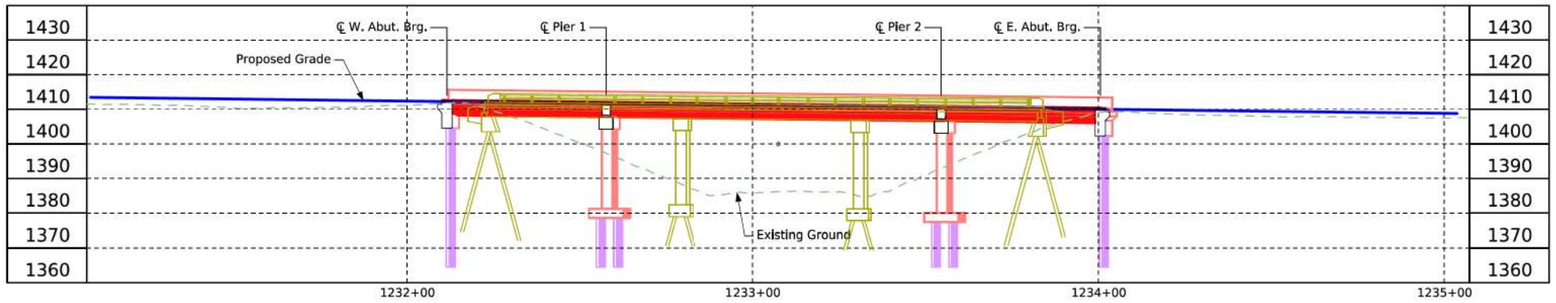
Utilities

Guthrie County Rural Electric Cooperative
(Electric Distribution)
Eldon Wolfe
Line Superintendent
1406 State Street
Guthrie Center, IA 50115
(641) 747-2206 Cell: (641) 757-0474
Gurecrew@netins.net

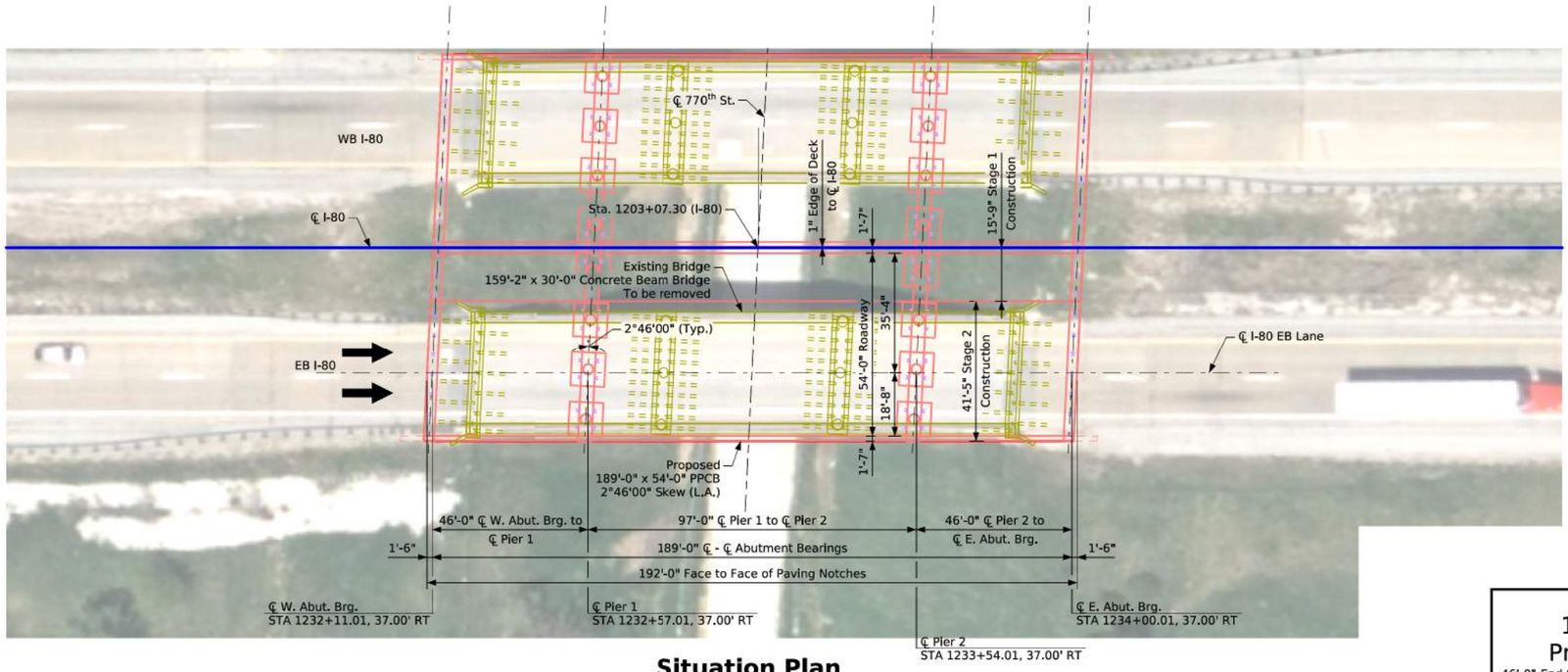
Iowa Department of Transportation
(Fiber Transmission)
Jason Dale
TEA - Office Of Traffic Operations
800 Lincoln Way
Ames, IA 50010
(515) 239-1995
Jason.Dale@iowadot.us

Iowa Communications Network
(Fiber Transmission)
David Augspurger
Telecom Specialist Sr - OSP Lead
400 E 14th St, Grimes State Office Building
Des Moines, IA 50319
(515) 725-4604 Cell: (515) 229-2013
david.augspurger@iowa.gov

WesTel Systems
(Fiber Distribution)
Ryan Barnholdt
Tech
307 Locust
Anita, IA 50020
rbarnholdt@westelsystems.com



Longitudinal Section Along ℄ I-80 EB



Situation Plan

0 20
Scale In Feet

Design For 2°46' Skew (L.A.)

189'-0" x 54'-0" Pretensioned Prestressed Conc. Beam Bridge

46'-0" End Spans — 97'-0" Interior Span

Situation Plan

STA. 1233+05.51 (I-80)

Turn-in Date: mmm yyyy

Cass County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. #### | Design Sheet No. 1 of 1 | FHWA No. ######

FILE NO. ######	ENGLISH	DESIGN TEAM HNTB	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER V.2

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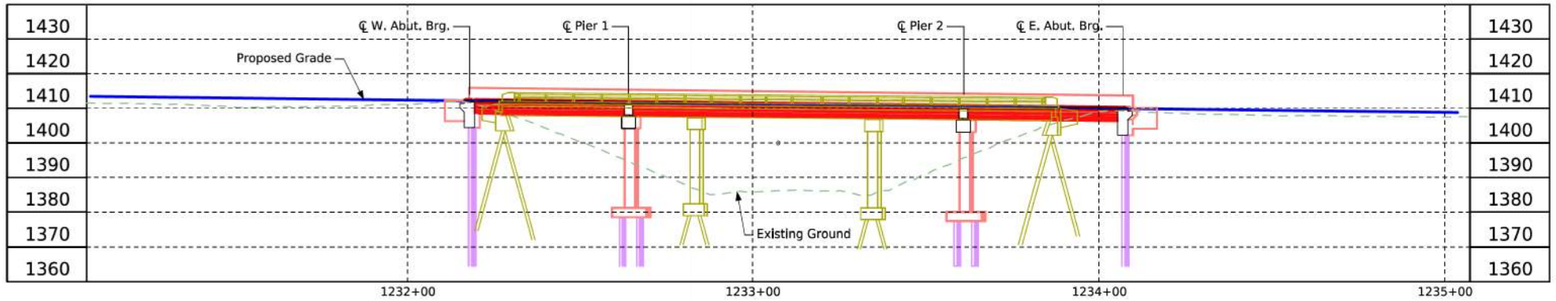
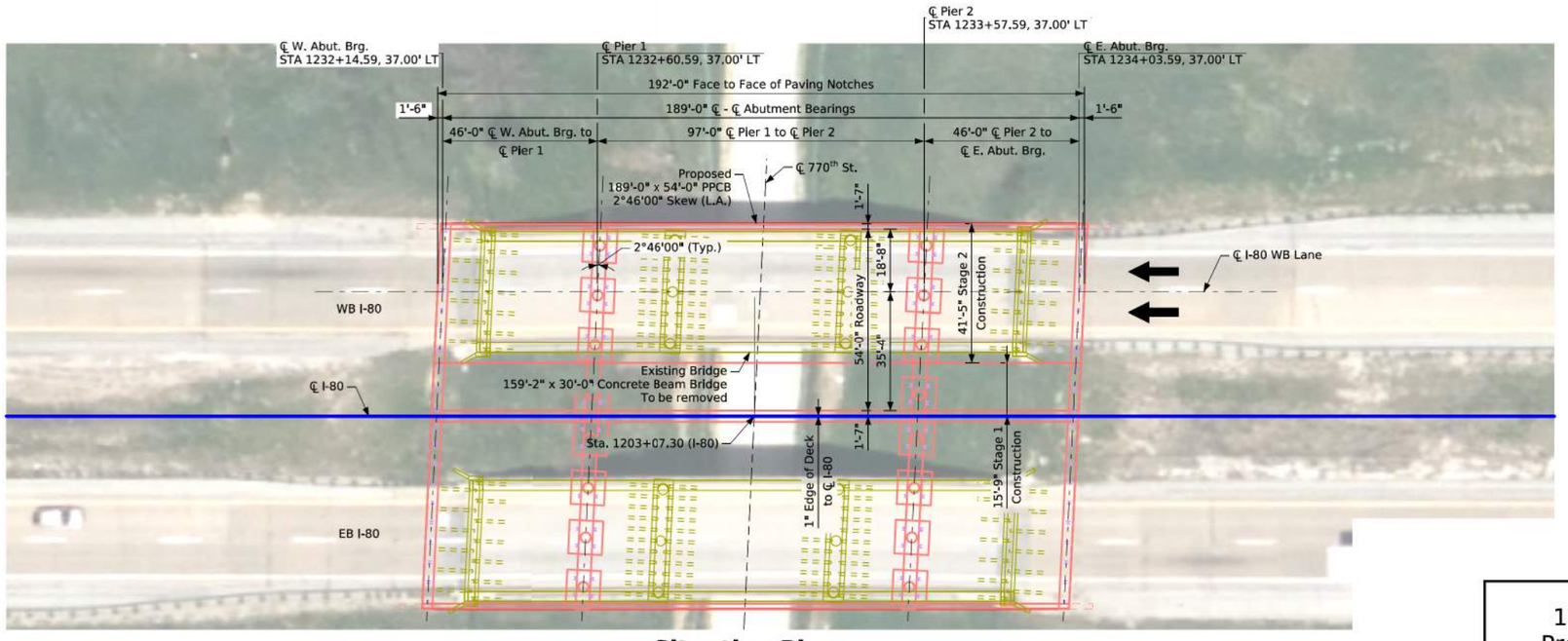


Longitudinal Section Along ℄ I-80 WB



Situation Plan

0 20
Scale In Feet

Design For 2°46' Skew (L.A.)

189'-0" x 54'-0" Pretensioned Prestressed Conc. Beam Bridge

46'-0" End Spans 97'-0" Interior Span

Situation Plan

STA. 1233+09.09 (I-80)

Turn-in Date: mmm yyyy

Cass County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. #### Design Sheet No. 1 of 1 FHWA No. ######

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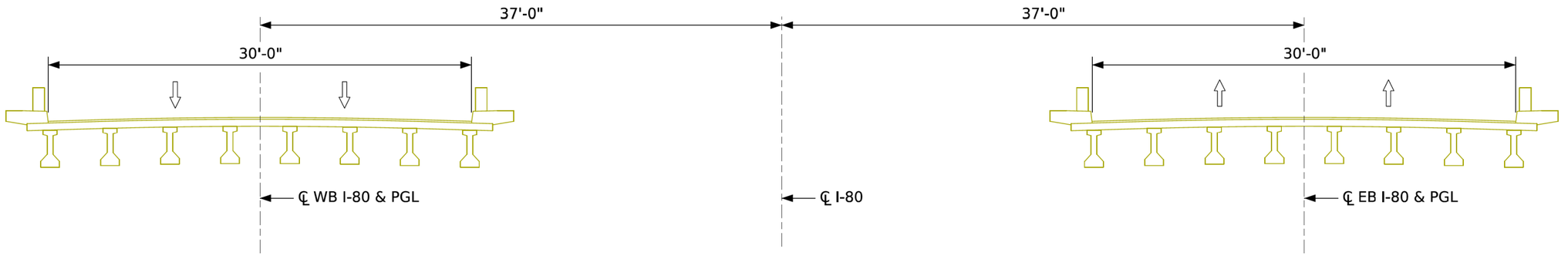

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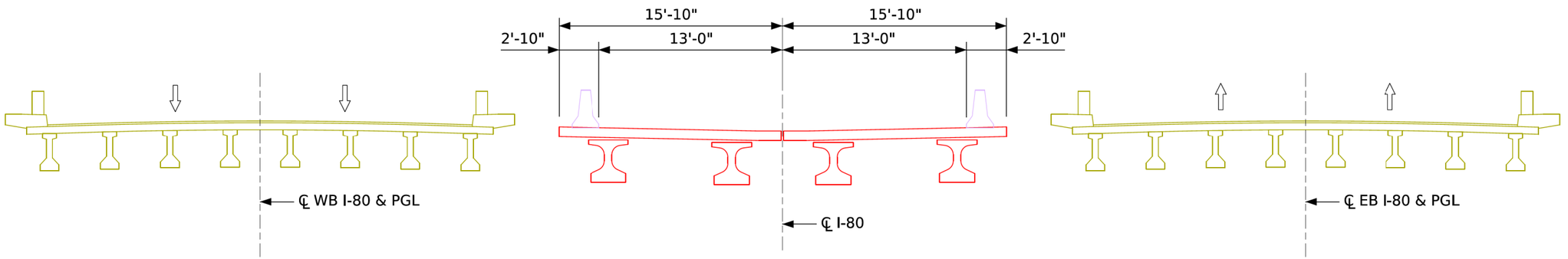

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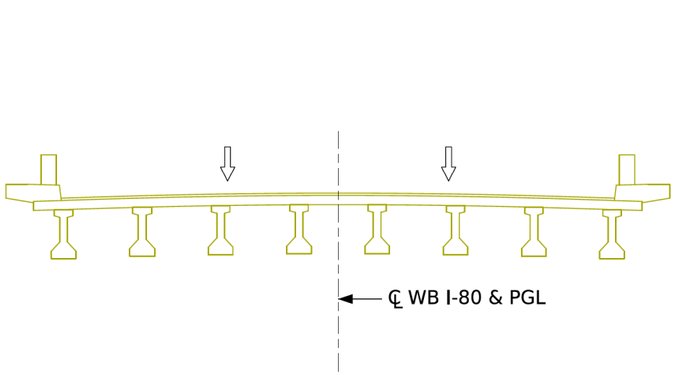

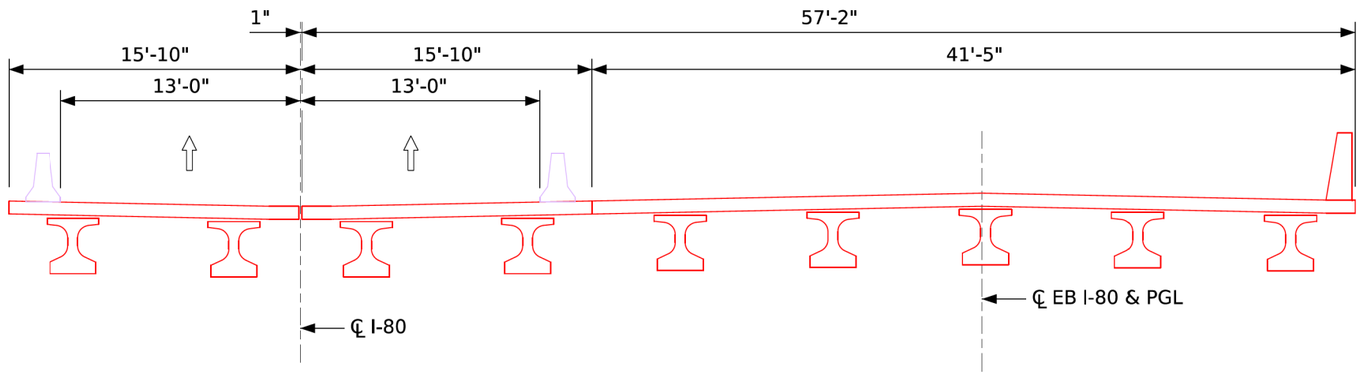

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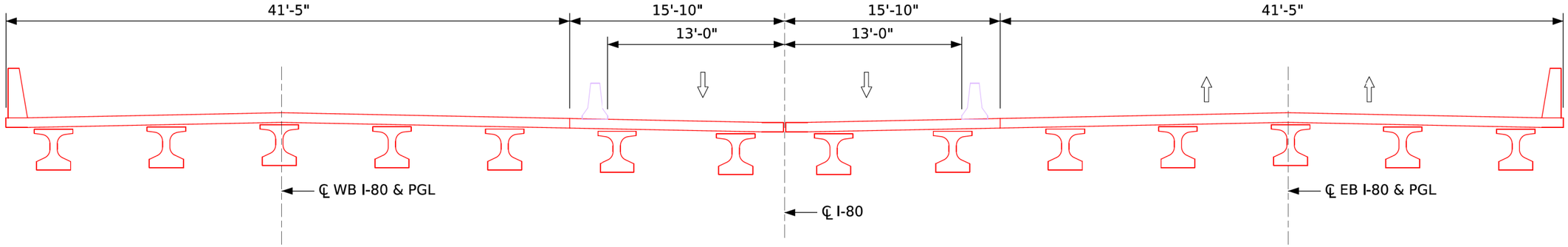

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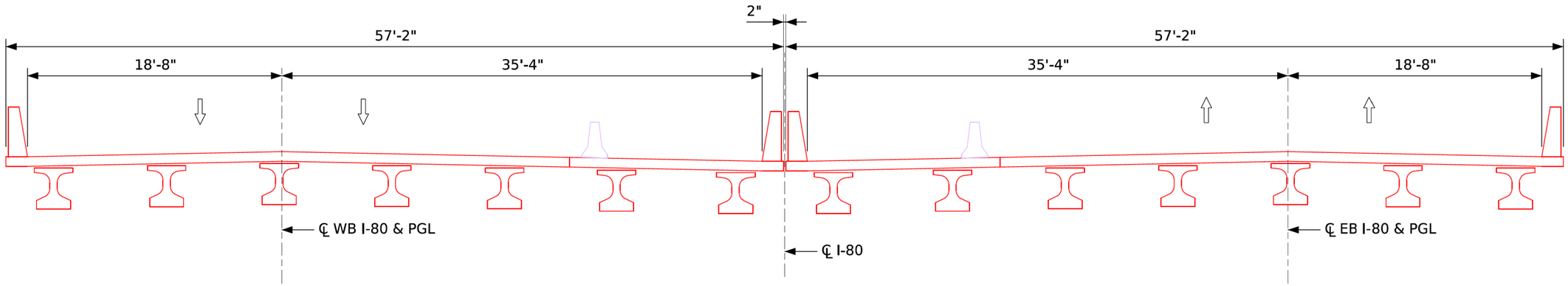

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Bridge Bureau Attachment for Concept Statement

Date: January 24, 2025
By: HNTB
Location: I-80 Bridges over 770th St., 1.7 miles east of IA 148 (EB/WB)

County: Cass County
Phase No.: IMX-080-2(277)72—02-15
Project Code: 23-15-080-020

1. Regulatory/Coordination

   a. Iowa DNR Flood Plain permit = No
   b. Iowa DNR Sovereign Lands permit = No
   c. Local Record of Coordination = No
   d. Flood Insurance Study = No
   e. Drainage District = No
   f. Corps of Engineers Section 408 = No
   g. State Water Trail or Paddling Route = No
   h. Historic Structure = No
   i. Federally owned land in vicinity = No
   j. USGS or Iowa Flood Center (IFC) gage or sensor impacted? No
   k. Obstruction Evaluation/Airport Airspace Analysis per FAA website = No

2. Hydrologic/Hydraulic Analysis/RIDB Dataset

   a. Design discharge methodology = N/A
   b. Hydraulic analysis done = N/A
   c. If DA > 10 sq. mi. Riverine Infrastructure Database (RIDB) dataset is required with B1 submittal = N/A
   d. <If RIDB required = N/A

3. Structure/Roadway Layout Considerations

   a. Grade raise not anticipated
   b. Proposed piers and abutments placed to miss existing foundations
   c. Proposed piers placed outside of 770th Street Clear Zone
   d. Proposed Bridge Roadway Width = 54’-0”

4. Special construction issues

   a. It is desirable for new structure foundations to avoid existing foundations when possible.

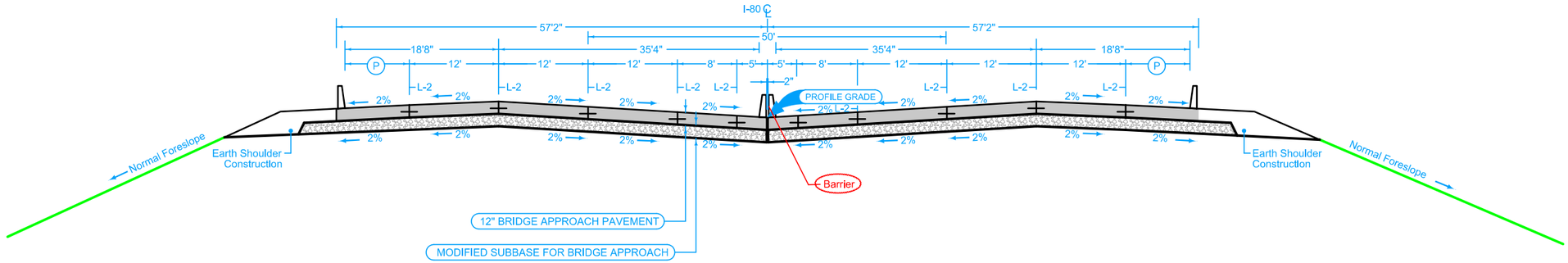
5. Special survey = No

6. Aesthetic enhancements = No

7. Other

   a. Staged Construction
      i. Median of both bounds to be built first with traffic on existing bridges.
      ii. Traffic to be shifted to proposed median for one bound with the other bound of traffic on one of the existing bridges.

Special Survey: None



Full Depth PCC Shoulder

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

			4_P_FullPCC_ 04-15-25
Direction of Travel	BEGIN STATION	END STATION	(P) Feet

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joints: L-2 or BT-2

	6DP_Closed_ Modified
BEGIN STATION	END STATION
1231+40.24	1232+12.01
1234+04.01	1234+75.79

Full Depth PCC Shoulder

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

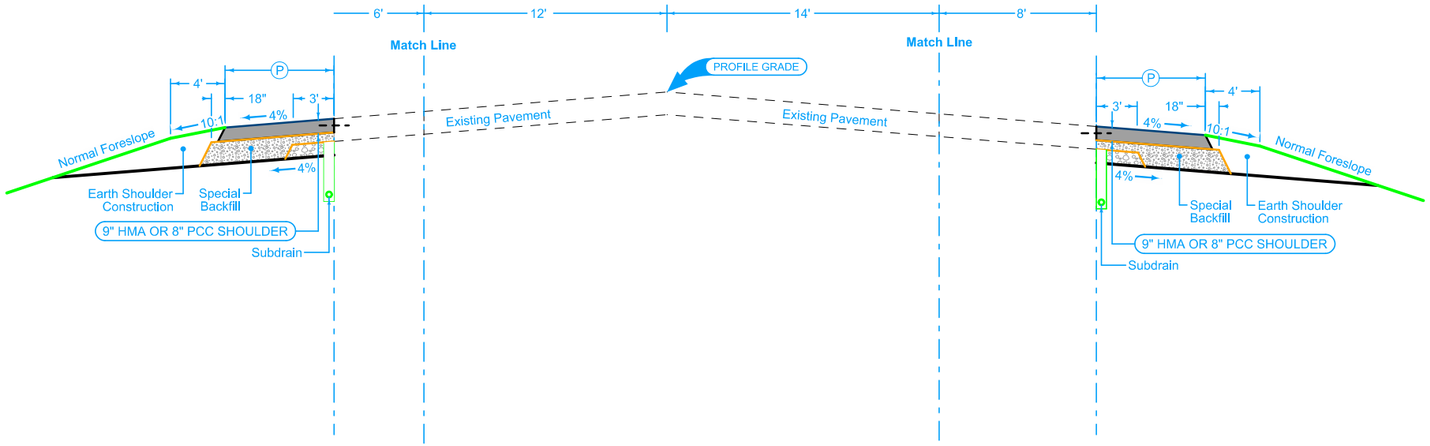
			4_P_FullPCC_ 04-15-25
Direction of Travel	BEGIN STATION	END STATION	(P) Feet

BRIDGE APPROACH PAVING
I-80

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

4_P_Guard_ 04-21-20			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet



Paved Shoulder at Guardrail

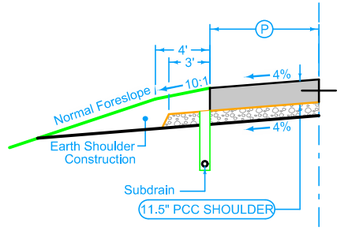
PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at mainline spacing
HMA Shoulder Jointing
Longitudinal joint: B

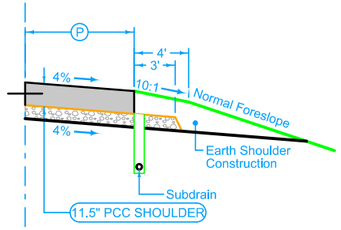
4_P_Guard_ 04-21-20			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet

Full Depth PCC Shoulder

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

4_P_FullPCC_ 04-15-25			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet
EB	1231+00.00	1231+40.24	6
EB	1234+75.79	1235+15.79	6
WB	1231+00.00	1231+40.24	6
WB	1234+75.79	1235+15.79	6





Full Depth PCC Shoulder

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

4_P_FullPCC_ 04-15-25			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet
EB	1231+00.00	1231+40.24	8-6.3
EB	1234+75.79	1235+15.79	6.3-8
WB	1231+00.00	1231+40.24	8-6.3
WB	1234+75.79	1235+15.79	6.3-8

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

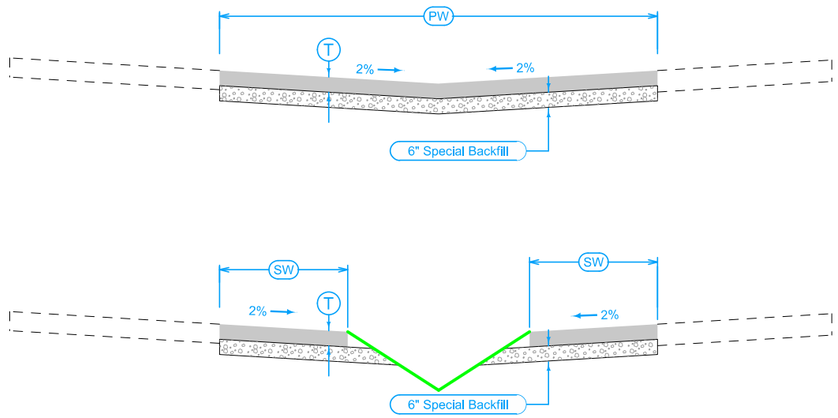
PAVED SHOULDER
I-80

LOCATION			DIMENSIONS						6" Special Backfill	Earth Shoulder Construction
ROAD IDENTIFICATION	STATION TO STATION		HMA			PCC				
			(PW) Feet	(SW) Feet	(T) Inches	(PW) Feet	(SW) Feet	(T) Inches	Tons/Station	Station
					12			9		

Quantity calculations based on vertical pavement edges.

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

(1) Possible HMA 1:1 slope



D_Detour
Modified

DETOUR PAVING

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER B.3	

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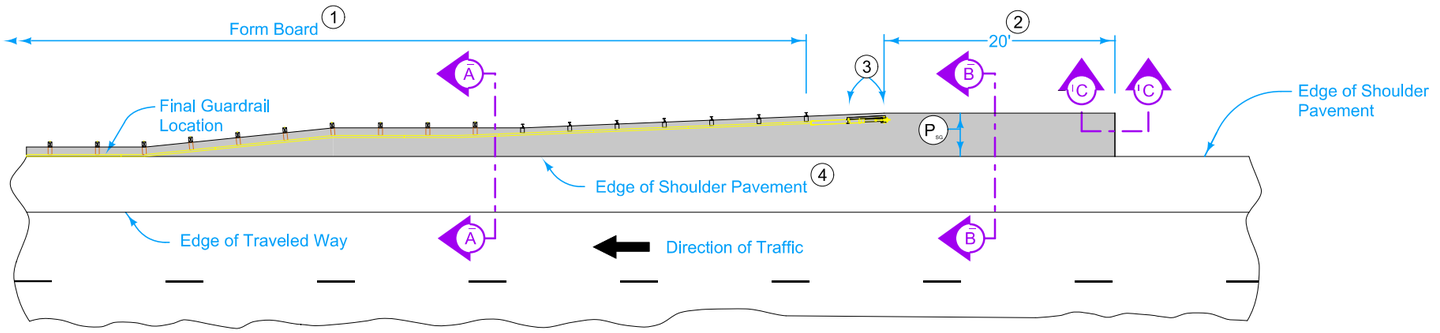
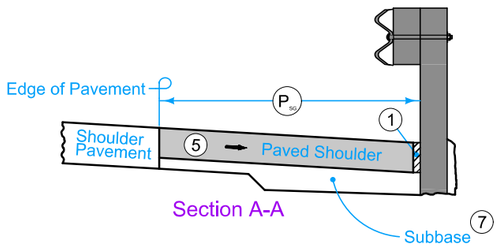
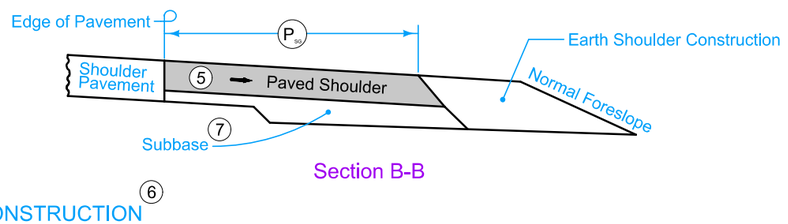


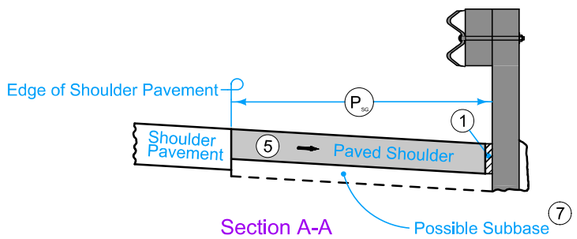
PLAN VIEW

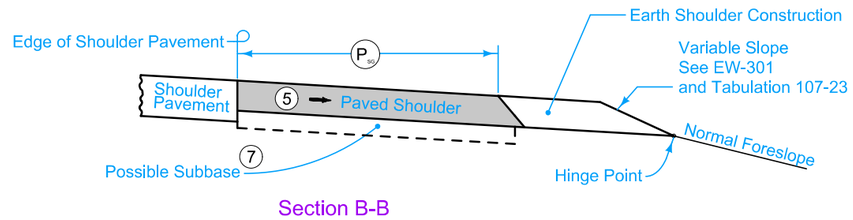




6

NEW CONSTRUCTION





EXISTING SHOULDER

7158
10-21-25

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.

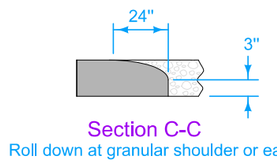
(3) Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

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

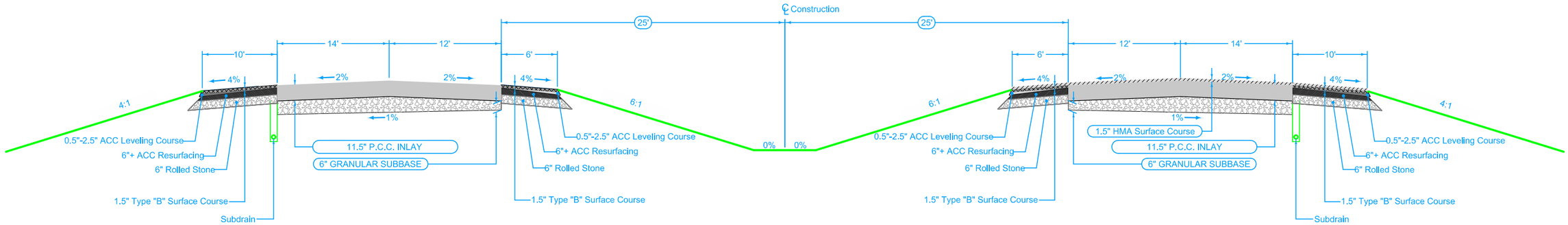
(5) Match shoulder slope.

(6) The Contractor has the option to pave the paved shoulder at guardrail and the full width paved shoulder as one operation.

(7) Refer to other details in the plan.



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



Existing I-80
For Information Only

FILE NO. **32687**	ENGLISH	DESIGN TEAM **Strum/Janus**	**CASS** COUNTY	PROJECT NUMBER **IMX-080-2(277)72--02-15**	SHEET NUMBER **B.5**	

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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)
- ST 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

- E3(C) EL3C, Guthrie County Rural Electric - Quality C
- FO(C) FO1C, Iowa Communications Network - Quality C
- FO2(C) FO2C, West Iowa Telephone - Quality C
- FO FO1D, Iowa Communications Network - Quality D
- FO2 FO2D, West Iowa Telephone - Quality D

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.		
Green	(2)	Existing Topographic Features and Labels	
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation	
Magenta	(5)	Existing Utilities	
SHADING	**Design Color No.**		**Transparency**
Pink, Dark	(13)	Temporary Pavement Shading	50%
Yellow	(4)	Proposed Pavement Shading	50%
Orange	(6)	Proposed Granular Shading	50%
Orange	(70)	Proposed Shoulder Granular Shading	50%
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading	50%
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading	50%
Brown, Light	(236)	Grading Shading	50%
Orange, Light	(134)	Proposed Granular Entrance Shading	50%
Yellow	(220)	Proposed Paved Entrance Shading	50%
Tan	(8)	Proposed Sidewalk Shading	50%
Blue, Light	(230)	Proposed Sidewalk Landing Shading	50%
Pink	(11)	Proposed Sidewalk Ramp Shading	50%
Red	(3)	Proposed Structure Shading	50%
Red	(3)	Delineates Restricted Areas	0%

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

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

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER D.1	

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Sta. 1231+50.91
18"X62' RCP w/ 19.5'-30"
CPP EXTENSION (Fair Condition)
Remove

770th St

STA 1227+55.01 (ML080)
BEGIN CONSTRUCTION

Trenchless Instalation ?

STA 1237+11.04 (ML080)
END CONSTRUCTION

1225+00 | 1230+00 | 1235+00 | 1240+00

Resurfacing Notch
STA: 1229+90.24

Resurfacing Notch
STA: 1235+40.79

TBR ?

Sta. 1232+78.32
Skew 3° LT
30"X184' RCP (Poor Condition)
Remove

Sta. 1233+34.65
Skew 3° LT
30"X192' RCP (Fair Condition)
Remove

0 50 FEET

LT Foreslope transition 3:1-4:1 | LT Foreslope 4:1 | LT Foreslope 4:1

RT Foreslope 4:1 | RT Foreslope transition 4:1-3:1 | RT Foreslope transition 3:1-2.5:1 | RT Foreslope transition 3:1-4:1 | RT Foreslope 4:1

TIE IN I-80 WB
STA 153+74.54
EL 1705.74

TIE IN I-80 EB
STA 157+10.09
EL 1668.38

I-80 WB
STA 157+10.09
EL 1667.30

3"

1.3"

I-80 EB
STA 153+74.54
EL 1703.18

RT +13
1412.77

-1.57% RT DG

RT +00
1411.40

-3.33% RT DG

RT +15
1410.90

-3.78% RT

RT +60
1409.20

-8.29% RT Ditch Grade

RT +19
1404.33

LT +00
1395.70

-3.70% LT Ditch Grade

LT +00
1392.00

LT +25
1396.66

+9.52% LT Ditch Grade

LT +00
1403.80

-0.67% LT Ditch Grade

LT +50
1402.80

1.11% LT Ditch Grade

LT +75
1401.41

1412.57 | 1412.47 | 1412.19 | 1411.91 | 1411.63 | 1411.35 | 1411.07 | 1410.80 | 1410.52 | 1410.24 | 1409.96 | 1409.68 | 1409.40 | 1409.13 | 1408.85 | 1408.84

1425 | 1420 | 1415 | 1410 | 1405 | 1400 | 1395 | 1390 | 1385 | 1380

1226+00 | 1227+00 | 1228+00 | 1229+00 | 1230+00 | 1231+00 | 1232+00 | 1233+00 | 1234+00 | 1235+00 | 1236+00 | 1237+00 | 1238+00 | 1239+00

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER D.2

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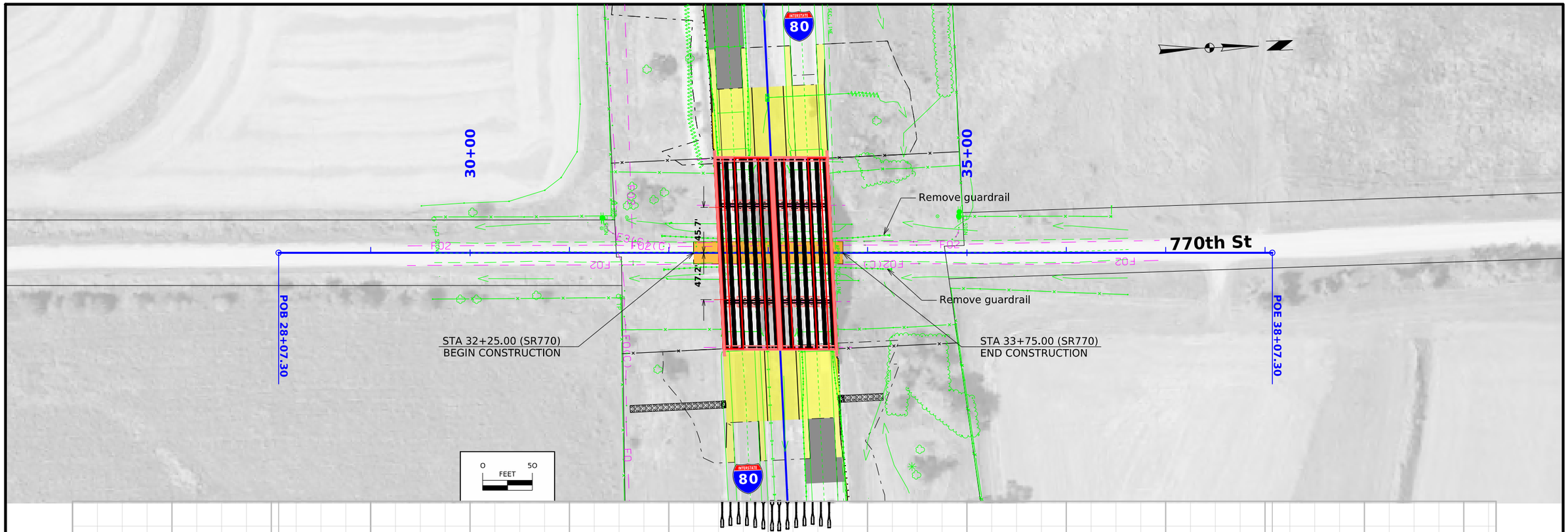

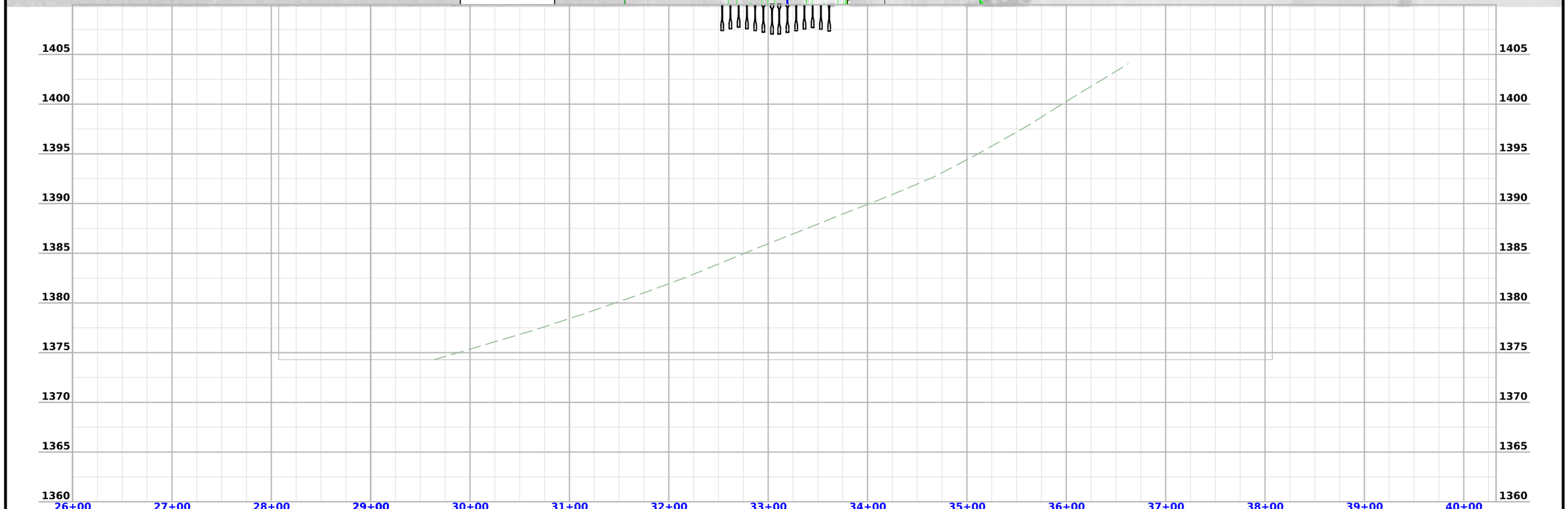

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER E.1	

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Sta. 1231+50.91
18"X62' RCP w/ 19.5'-30"
CPP EXTENSION (Fair Condition)
Remove

770th St

STA 1223+50.00 (ML080)
BEGIN CONSTRUCTION

STA 1231+40 (ML080)
STOP DETOUR

1220+00

1225+00

1230+00

INTERSTATE 80

APPROX. SEC. LINE

F02

F0

F0(C)

Sta. 1232+78.32
Skew 3° LT
30"X184' RCP (Poor Condition)
Remove

0 50
FEET

I-80 DETOUR

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER F.1	

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770th St

STA 1234+76 (ML080)
RESUME DETOUR

STA 1242+70.00 (ML080)
END CONSTRUCTION

1235+00

1240+00

1245+00

INTERSTATE 80

Sta. 1233+34.65
Skew 3° LT
30"X192' RCP (Fair Condition)
Remove

0 50
FEET

I-80 DETOUR

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER F.2	

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SURVEY INDEX

Cass County
PIN 23-15-080-020
Project Number: IMX-080-2(277)72--02-15
Location: I-80, 770th St 1.7 mi E of IA 148 (EB/WB)
Type of Work: Preliminary Engineering Survey
Project Directory: 1508002023

Survey Personnel

Carson Lay, PLS – Survey Crew Chief	Primary Control, Secondary Control, Alignment Survey, Topographic Survey, Utility Survey
James Degenhardt, PLS - Survey Crew	Primary Control, Secondary Control, Alignment Survey, Topographic Survey, Utility Survey
Evan McCarthy - Survey Crew	Topographic Survey
Phillip Marshall – Survey Crew	Topographic Survey
Kevin Flood, IA PLS – Project Manager	Project Management

Date(s) of Survey

Field Survey	August 19, 2025 – September 17, 2025

General Information

Survey to support planning and design efforts of Iowa DOT Project IMX-080-2(277)72--02-15 located in Cass County, Iowa. General project limits are along Interstate 80 approximately 1,300 feet East and West of the I-80 bridge over 770th Street and along 770th Street approximately 330 feet North and South of Interstate 80. Survey services included establishing primary and secondary control, establishing existing roadway alignments, a utility survey, and a full DTM topographic survey.

Utility Information

For logging data and other utility details see the utility report, Iowa One Call ticket information, and Iowa One Call member correspondence and provided information in the prelim survey project directory.

Project Control

The Iowa RTN system was utilized to establish horizontal coordinates on primary control points. Three five-minute observations were taken with a minimum two-hour time span between each observation and used in a weighted average to obtain final horizontal coordinate values. Vertical coordinates were established by running closed circuits with a digital level. The level circuit was then least-squares adjusted to establish final vertical coordinates.

PROJECT DATUM: NAD83(2011) EPOCH 2010 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 7 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID: GEOID18

Alignment Information

The horizontal alignment for this survey is a retracement of I-80 (As-built plan no. 80-2(8)70).

The I-80 alignment computed by Iowa DOT and shown in file DIS_15080280Z07.dgn was confirmed with found existing field monumentation.

770th Street South stationing was equated to plan P.O.T. Sta. 1233+07.3 (80-2(8)70) = Sta. 1233+07.31 (this survey) equals 30+00.00. Recovered 5/8" pin, 0.08' South of I-80 alignment. Tangent was extended Southerly parallel to the computed 770th Street right of way in Iowa DOT file DIS_15080280Z07.dgn to Station 25+00.00.

770th Street North stationing was equated to Sta. 1233+06.30 (this survey) equals 10+00.00. Tangent was extended Northerly parallel to the computed 770th Street right of way in Iowa DOT file DIS_15080280Z07.dgn to Station 15+00.00.

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 (IaRTN 2019 Adjustment) - Iowa RCS Zone 7 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - GEOID18

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 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 7 (U.S. Survey Foot)
VERT. DATUM: NAVD88
GEOID18

Point Name	Northing	Easting	Elevation	Feature Code - Description
1	7254144.68	17473656.36	1434.37	FENO Set 6in Deep South of EBL I-80 near mm71.8
2	7254178.21	17474485.46	1413.01	FENO Set 4in Deep South of EBL I-80 near mm72.0
3	7254719.74	17475040.09	1407.55	FENO Set 4in Deep North of WBL I-80 on East Side 770th Street
4	7254468.62	17476705.96	1406.29	FENO Set 4in Deep North of WBL I-80 near mm72.4

ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
1	ML080	1077+65.70	7254140.88	17459476.94															
2	ML080							1117+86.48	7254383.59	17463490.39	1123+03.49	7254414.80	17464006.46	1128+19.81	7254399.45	17464523.25			
4	ML080							1184+81.90	7254231.36	17470182.84	1187+81.89	7254222.46	17470482.70	1190+81.77	7254226.74	17470782.65			
6	ML080							1268+20.72	7254337.10	17478520.81	1271+20.77	7254341.37	17478820.83	1274+20.80	7254340.79	17479120.87			
7	ML080	1313+79.71	7254333.05	17483079.78															

SPIRAL OR CIRCULAR CURVE DATA

Name	Chain	ΔSCS	Horizontal Alignment Data												Remarks
			Spiral Data								Curve Data				
			θS	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	ΔC	T	L	R	E	
C1	ML080										05°09'42.41"	517.012	1033.324	11470	11.646	
C2	ML080										02°31'05.56"	299.986	599.875	13649	3.296	
C3	ML080										00°55'44.51"	300.045	600.078	37008	1.216	

STAGING NOTES

STG 1 Traffic

I-80 EB and I-80 WB - close inside lanes of traffic. Shift traffic to oustide lanes
770th St traffic on existing lanes

STG 1 Construction

Remove existing shoulders and construct Detour Pavement.

STG 2 Traffic

I-80 EB and I-80 WB traffic on existing lanes
770th St closed

STG 2 Construction

Construct median portion of new bridge and remaining Detour Pavement.

STG 3 Traffic

I-80 EB shift traffic to detour pavement
I-80 WB - traffic on existing lanes
770th St closed

STG 3 Construction

Construct EB portion of new bridge and bridge approaches. Install EB guardrail.

STG 4 Traffic

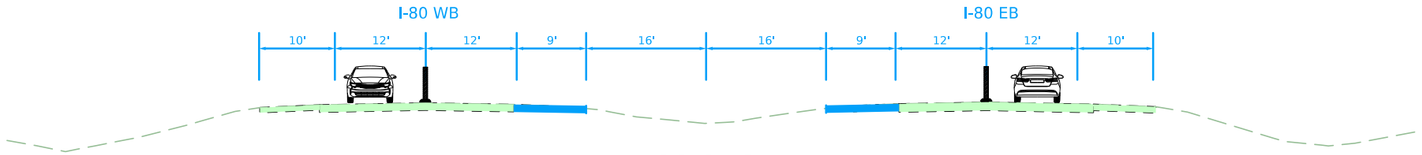
I-80 EB traffic on existing lanes and new EB bridge
I-80 WB shift traffic to detour pavement
770th St closed

STG 4 Construction

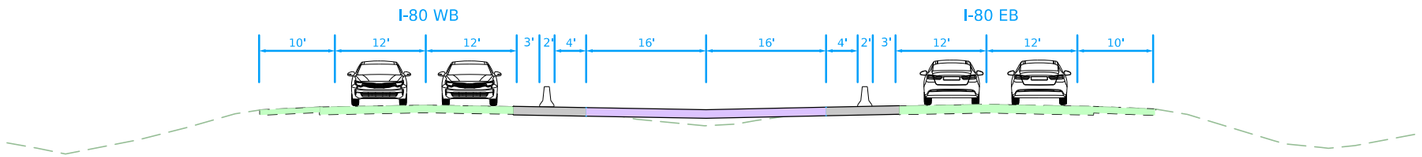
Construct WB portion of new bridge and bridge approaches. Install WB guardrail.
Add granular surfacing on 770th St.

STG 5 Traffic

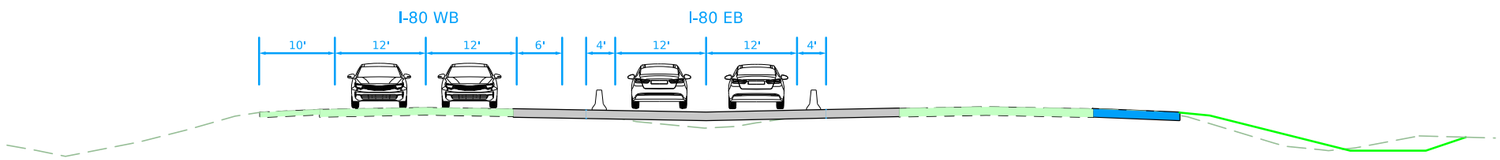
I-80 EB and WB traffic on existing lanes.
770th St traffic on existing lanes.



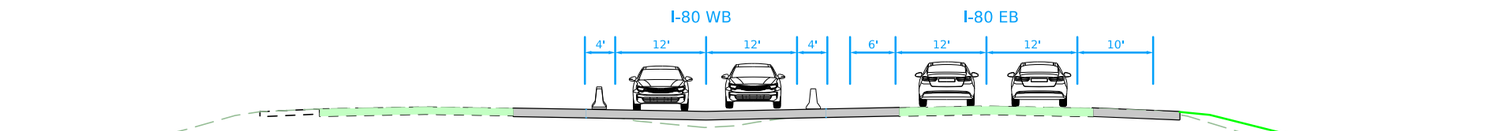
I-80 STG 1
STA 1228+50



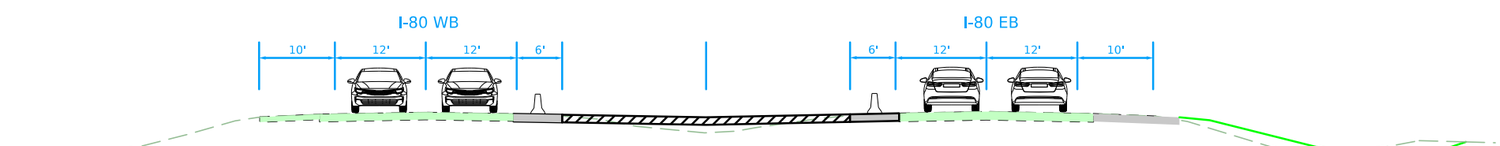
I-80 STG 2
STA 1228+50



I-80 STG 3
STA 1228+50



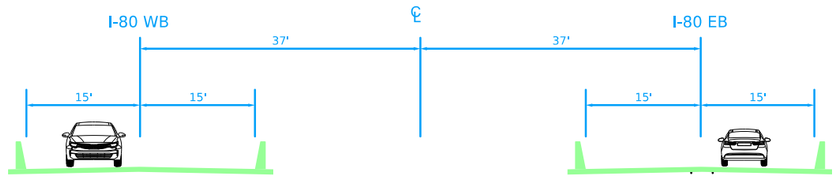
I-80 STG 4
STA 1228+50



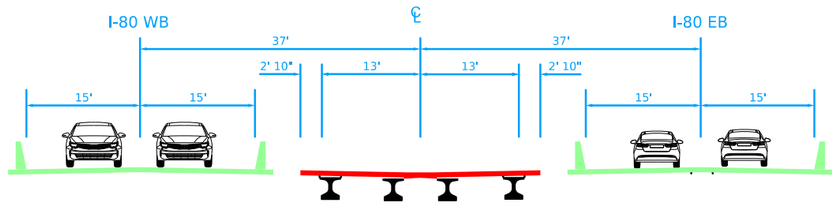
I-80 STG 5
STA 1228+50

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.2

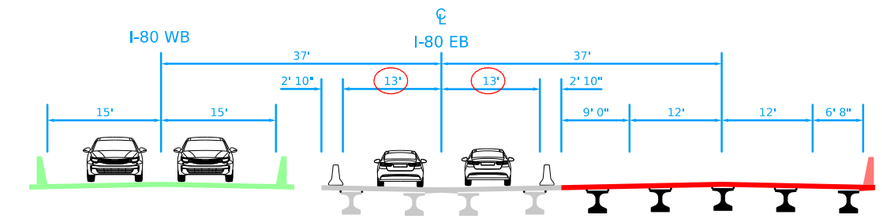
12:39:22 PM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J02.dgn



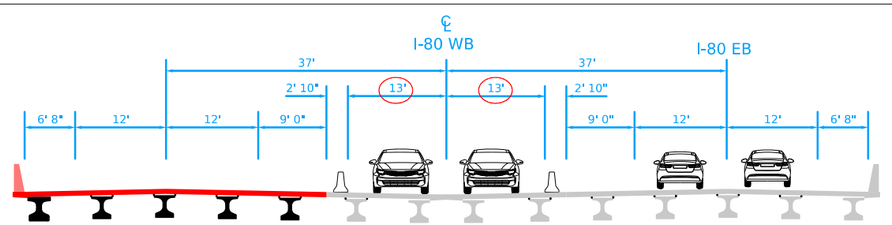
I-80 STG 1
STA 1233+00



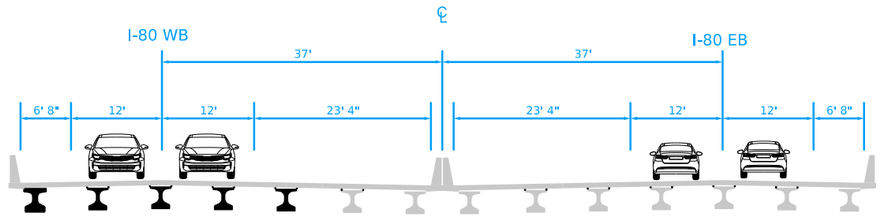
I-80 STG 2
STA 1233+00



I-80 STG 3
STA 1233+00



I-80 STG 4
STA 1233+00



I-80 STG 5
STA 1233+00

FILE NO. **32687**	ENGLISH	DESIGN TEAM **Strum/Janus**	**CASS** COUNTY	PROJECT NUMBER **IMX-080-2(277)72--02-15**	SHEET NUMBER **J.4**	

11:35:33 AM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J02.dgn

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Med	(237)	Future Proposed Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail		Permanent Barrier Rail
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Magenta	(5)	Pavement Marking Call Outs
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)	Pavement Markings, Yellow
Off White	(254)	Pavement Markings, White
Violet	(15)	Temporary barrier rail, Unpinned
Flush Orange	(228)	Temporary barrier rail, Pinned

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

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

●	Channelizing Device		Crash Cushion (Temp or Perm)
✕	Drum		Traffic Signal
◘	Temporary Lane Separator		Flagger
◆	Tubular Marker		Temporary Floodlighting
♦	Channelizer Marker		Traffic Sign
△	Concrete Barrier Marker		Type III Barricade
⊰	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout	1	Lane Identification

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

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)

1160+00
1165+00
1170+00
1175+00
1180+00
1185+00
1190+00

INTERSTATE 80

1000'
1000'

ROAD WORK AHEAD
W20-1
48" x 48"

SPEED LIMIT 55
R2-1
48" x 60"

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

0 100
FEET

N

STAGE 1

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.6

10:26:31 AM 1/20/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J04.dgn

1190+00
1195+00
1200+00
1205+00
1210+00
1215+00
1220+00
1195+00
80
INTERSTATE
12'
12'
12'
12'
500'
END ROAD WORK
G20-2A
48" x 24"
1000'
1000'
910'
700'
MERGE
W4-2M
48" x 48"
W4-2
48" x 48"
FO
0
100
FEET
N
STAGE 1

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.7	

10:26:37 AM 1/20/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J04.dgn

770th St

TC-418

1220+00 1225+00 1230+00 1235+00 1240+00 1245+00 1250+00

SPEED LIMIT 55

R2-1 48" x 60"

700' 700'

12' 12' 12' 12'

88

FO FO(C) FO2 FO FO(C) FO

770th St

0 100 FEET

STAGE 1

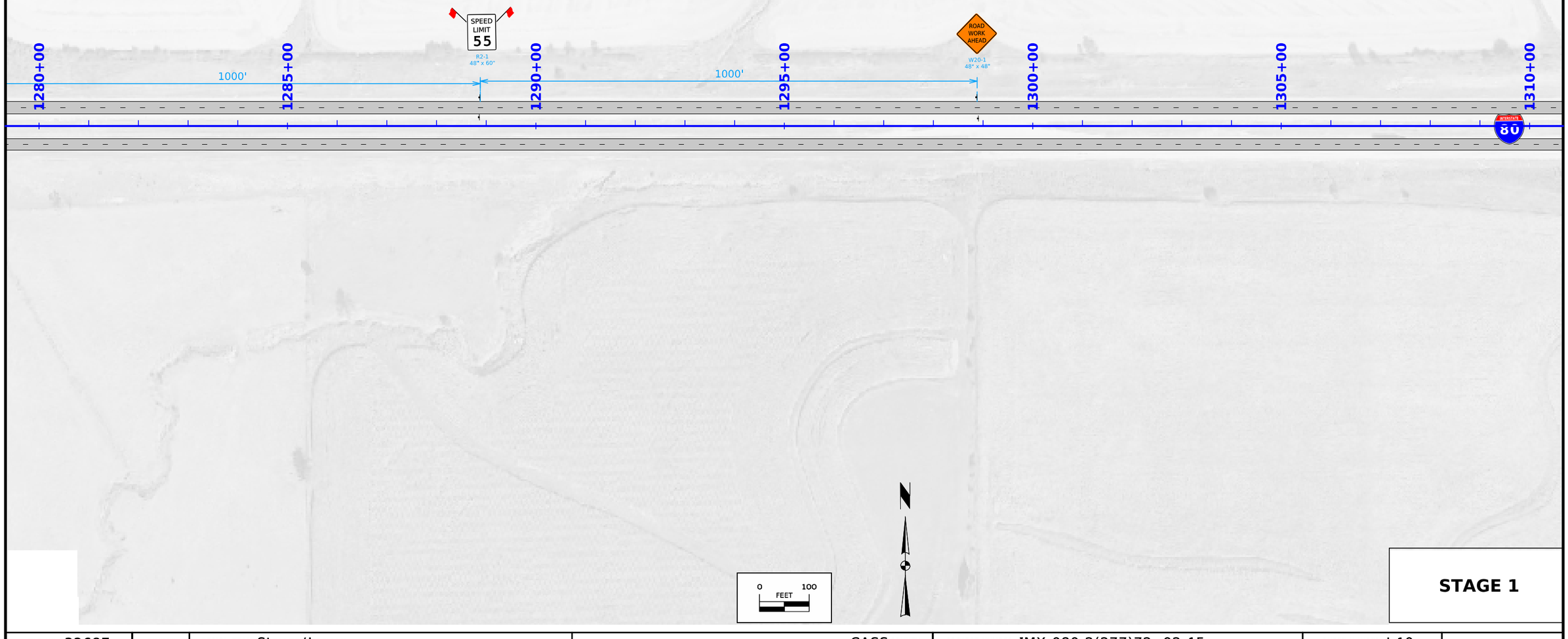
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.8

10:26:39 AM 1/20/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J04.dgn

STAGE 1

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.9	

10:26:41 AM 1/20/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J04.dgn



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10:26:43 AM 1/20/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J04.dgn

1190+00
1195+00
1200+00
1205+00
1210+00
1215+00
1220+00

1195+00

80

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

500

1500'

ROAD WORK AHEAD
W20-1
48" x 48"

FO

0 100
FEET

N

STAGE 2

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.11	

11:55:23 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J05.dgn

770th St

1220+00 1225+00 1230+00 1235+00 1240+00 1245+00 1250+00

500' 500'

12' 12' 12' 12'

FO FO(C) FO2 FO(C) FO FO FO2 FO2 FO2

UB EB EB TP TP TP

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

770th St

0 100
FEET

STAGE 2

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.12

11:55:24 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J05.dgn

STAGE 2

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.13	

11:55:25 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J05.dgn

1190+00
1195+00
1200+00
1205+00
1210+00
1215+00
1220+00

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

1500'

ROAD WORK AHEAD
W20-1
48" x 48"

W1-4L
48" x 48"

FO

0 100
FEET

STAGE 3

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.14	

11:55:34 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J06.dgn

770th St

1220+00 | 1225+00 | 1230+00 | 1235+00 | 1240+00 | 1245+00 | 1250+00

500'

500'

500'

FO FO(C) FO2 FO(C) FO FO

END ROAD WORK

G20-2A
48" x 24"

770th St

0 100 FEET

STAGE 3

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.15

11:55:35 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J06.dgn

STAGE 3

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.16

11:55:35 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J06.dgn

1190+00
1195+00
1200+00
1205+00
1210+00
1215+00
1220+00

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

12'
12'
12'
12'
1500'

ROAD WORK AHEAD
W20-1
48" x 48"

FO

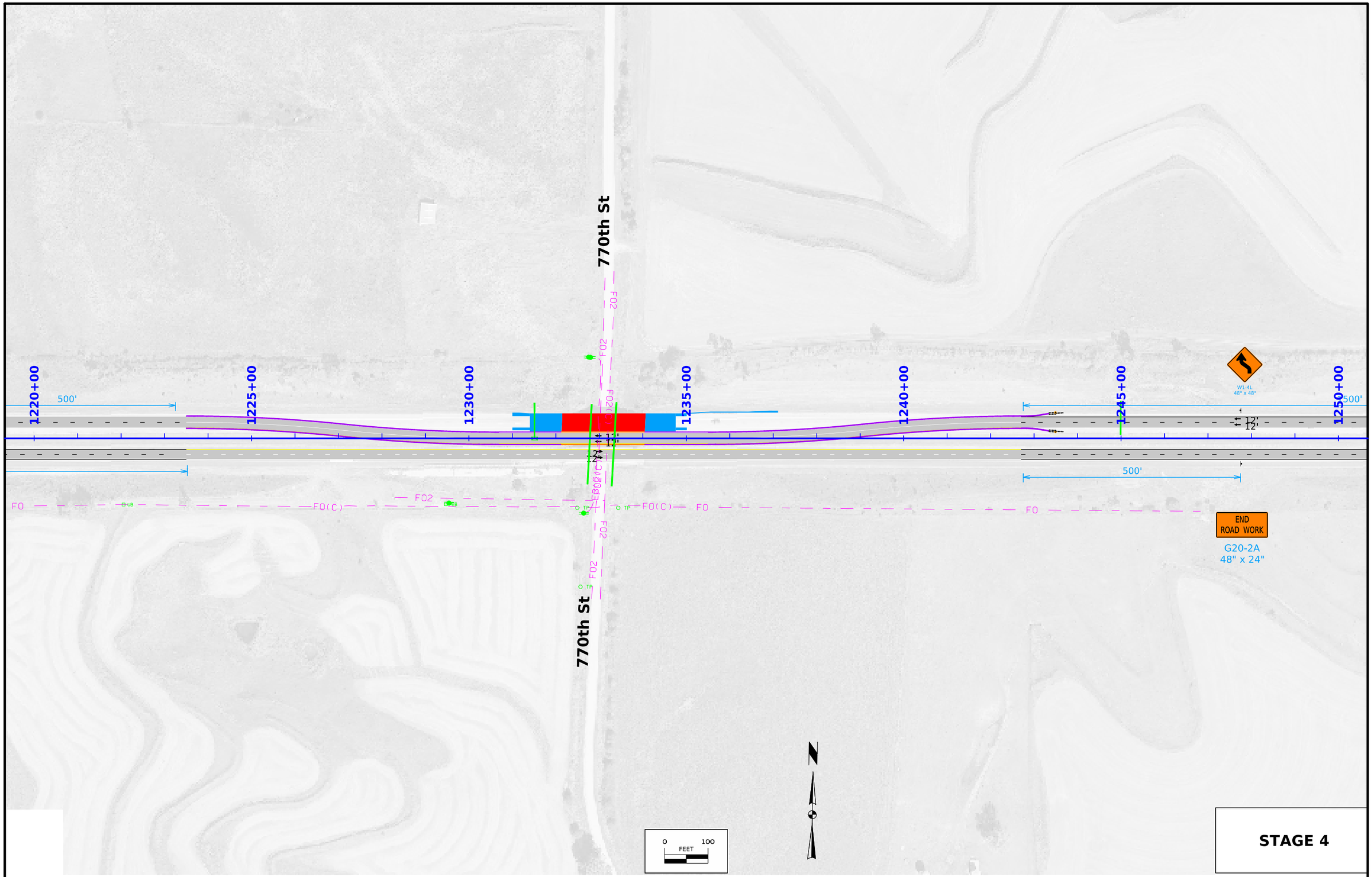
0 100
FEET

N

STAGE 4

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.17	

11:55:44 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J07.dgn



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STAGE 4

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.19	

11:55:46 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J07.dgn

1190+00
1195+00
1200+00
1205+00
1210+00
1215+00
1220+00
80
END ROAD WORK
G20-2A
48" x 24"
500
1500'
ROAD WORK AHEAD
W20-1
48" x 48"
FO
0 100 FEET
N
STAGE 5

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.20	

11:55:55 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J08.dgn

770th St

1220+00 1225+00 1230+00 1235+00 1240+00 1245+00 1250+00

500' 500'

12' 12' 12' 12'

FO FO(C) FO2 FO(C) FO FO FO2 FO2 FO2

770th St

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

0 100
FEET

STAGE 5

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.21

11:55:56 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J08.dgn

STAGE 5

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER J.22	

11:55:57 AM 1/13/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_J08.dgn

CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature
Aggregate	
(64)	Choke Stone
(42)	Engineering Fabric
(8)	Flooded Backfill
(92)	Macadam Stone
(20)	Modified
(12)	Plowing Shaping
(14)	Porous Backfill
(8)	Revetment Class A
(6)	Revetment Class B
(62)	Revetment Class C
(188)	Revetment Class D
(28)	Revetment Class E
(12)	Shoulder Special Backfill
(12)	Special Backfill
(20)	Subbase
(20)	Subbase Lower
(20)	Subbase Upper
(118)	Subgrade Treatment
Asphalt	
(207)	HMA Base Course
(207)	HMA Interim Course
(207)	HMA Surface Course
Bridge	
(0)	Bridge
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Existing	
(0)	Existing Pavement
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Structural	
(112)	Noise Wall
(112)	Noise Wall Footing
(112)	Retaining Wall Back
(112)	Retaining Wall Back Excavate
(112)	Retaining Wall Face
(112)	Retaining Wall Front Excavate
(112)	Retaining Wall Front Footing
(112)	Retaining Wall MSE Gutter
(112)	Retaining Wall Reinforced Earth

Design Color No.	Feature
Grading	
(8)	Behind Curb Cut
(6)	Granular
(13)	Granular Back Fill
(48)	Rock Undercut
(8)	Shoulder Earth Fill
(2)	Side Slopes
(226)	Side Slopes Dressing
Substrata	
(128)	Boulder
(209)	Boulder Removed
(48)	Broken Weathered
(210)	Broken Weathered Removed
(3)	Core Out
(115)	Core Out Remove Only
(195)	Core Out Remove and Replace
(203)	Existing Pavement
(184)	Existing Pavement Remove Only
(200)	Existing Pavement Remove and Replace
(6)	Loam
(211)	Loam Removed
(80)	Rock
(212)	Rock Removed
(4)	Select Sand
(214)	Select Sand Removed
(3)	Shale
(215)	Shale Removed
(10)	Topsoil
(2)	Topsoil Remove Only
(4)	Topsoil Remove and Replace
Unsuitable / Waste	
(3)	Unsuitable Type A
(216)	Unsuitable Type A Removed
(13)	Unsuitable Type B
(217)	Unsuitable Type B Removed
(11)	Unsuitable Type C
(218)	Unsuitable Type C Removed
(3)	Waste
(219)	Waste Removed

NOTES:

Text

NOTES:

Text

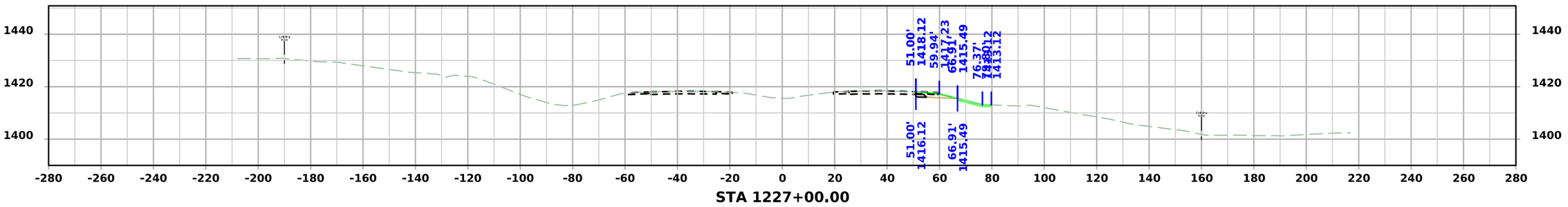
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

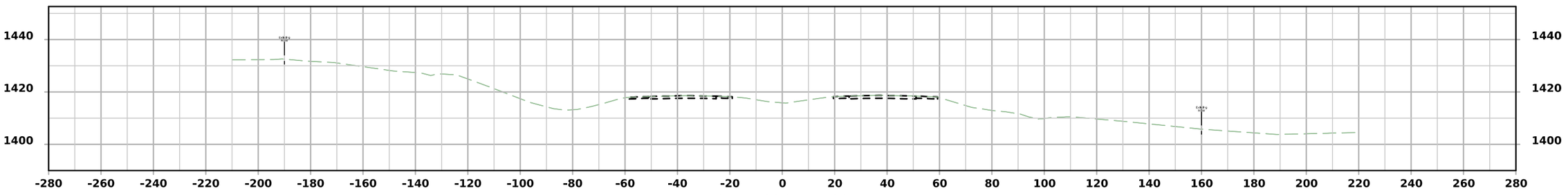
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.1

9:26:53 AM 11/7/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277Z07_LGD.dgn

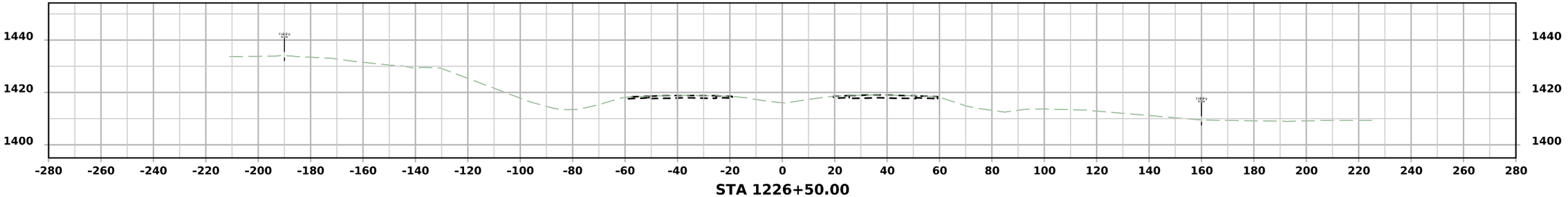
I-80



STA 1227+00.00



STA 1226+75.00

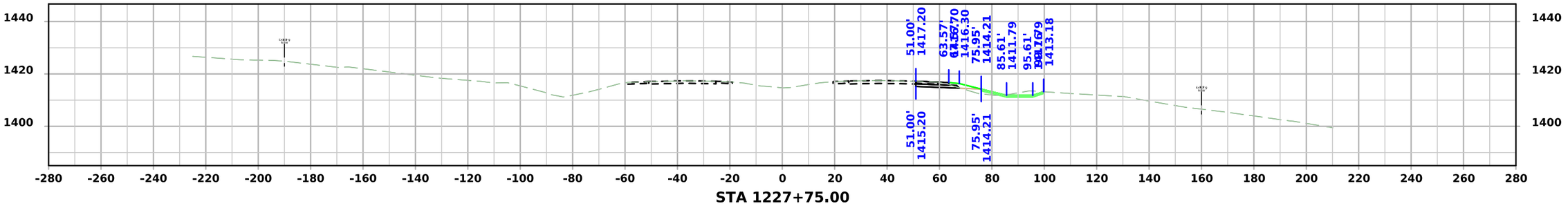


STA 1226+50.00

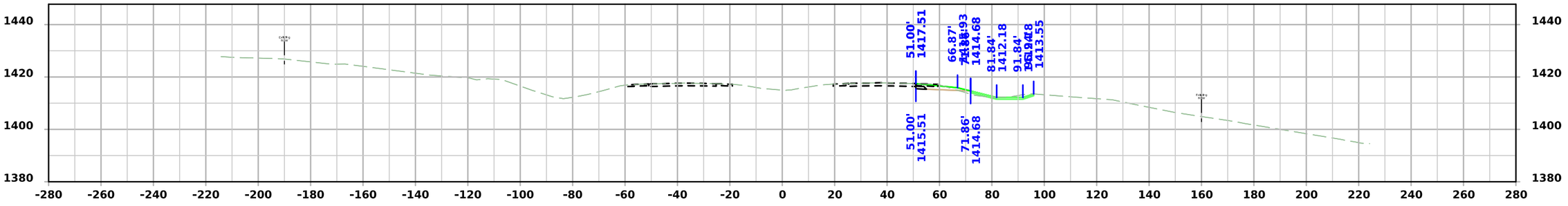
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.2	

2:06:15 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

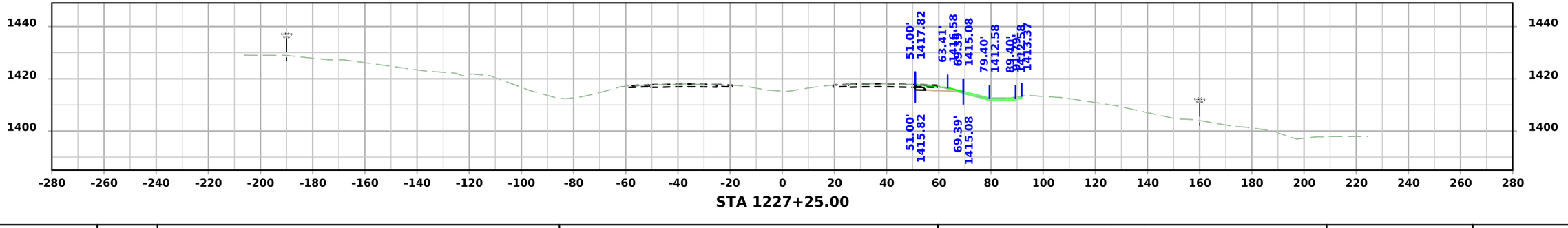
I-80



STA 1227+75.00



STA 1227+50.00



STA 1227+25.00

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.3

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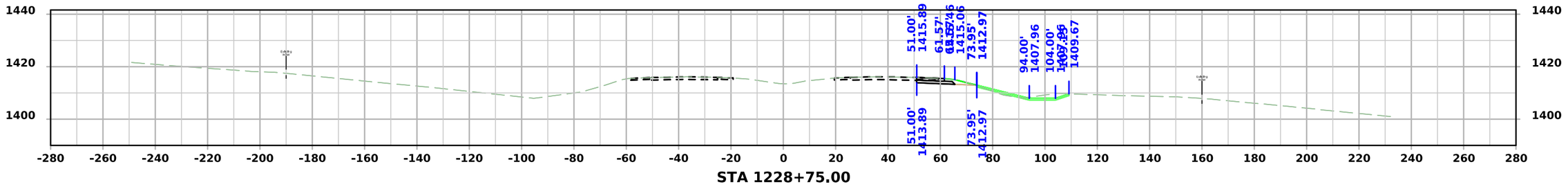
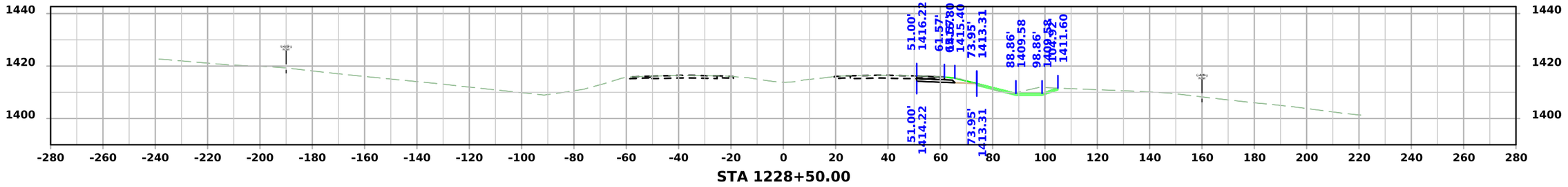
I-80



STA 1228+75.00



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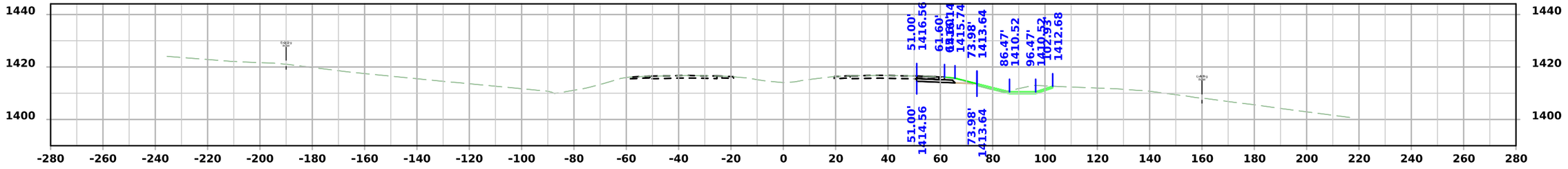
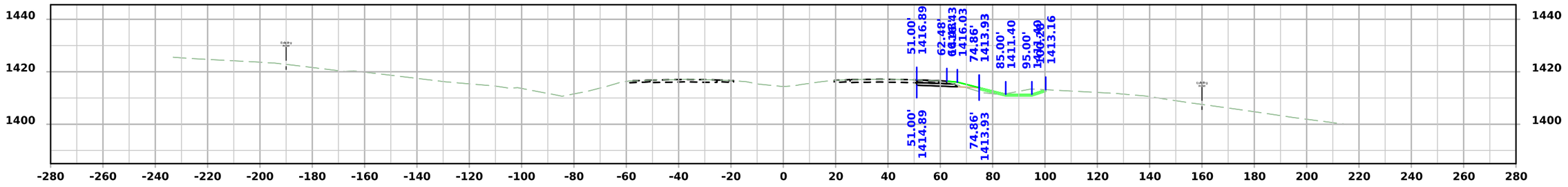


STA 1228+25.00

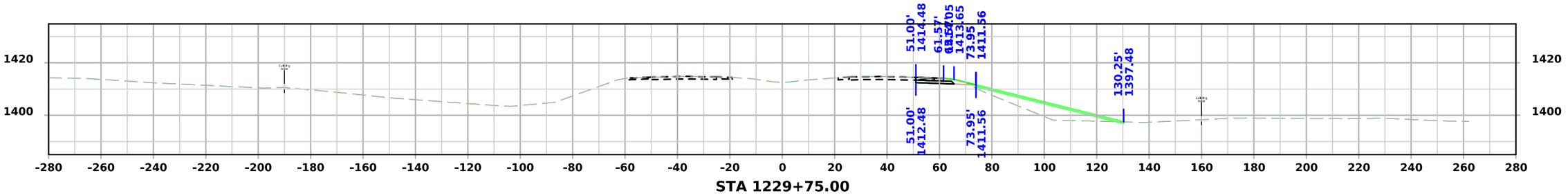


STA 1228+00.00

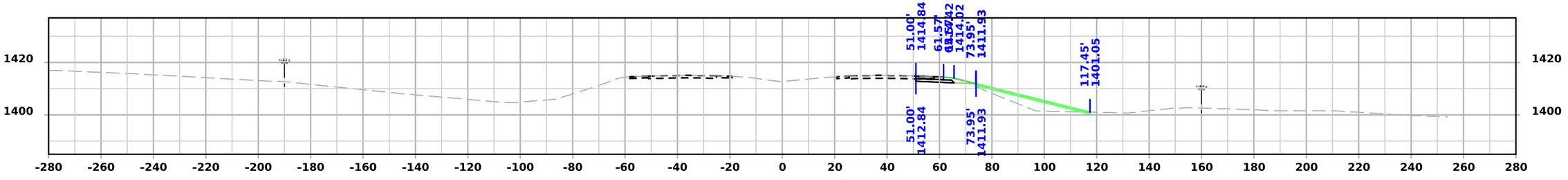
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.4

2:06:16 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



STA 1229+75.00



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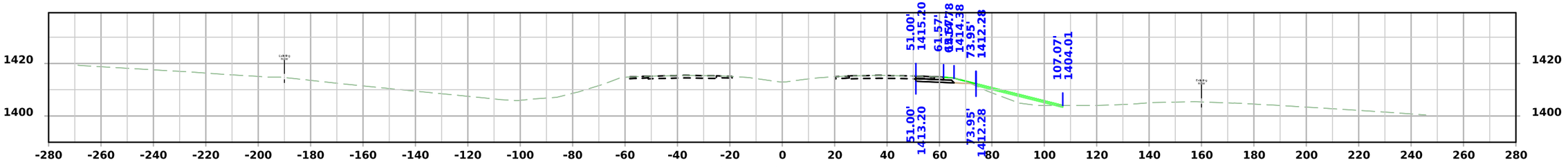
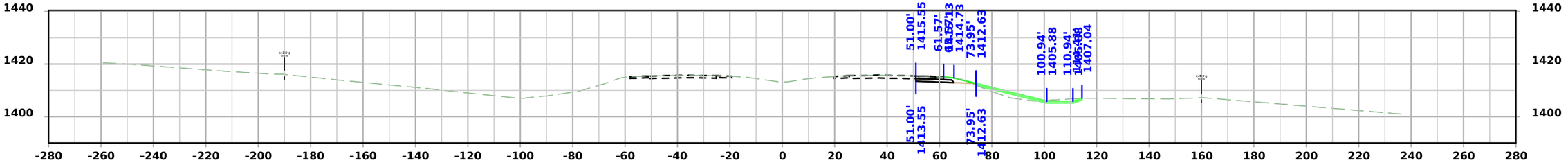


STA 1229+25.00

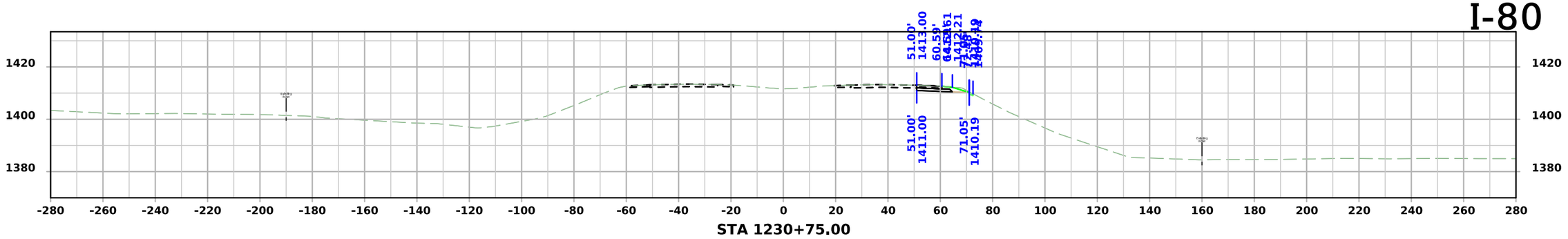


STA 1229+00.00

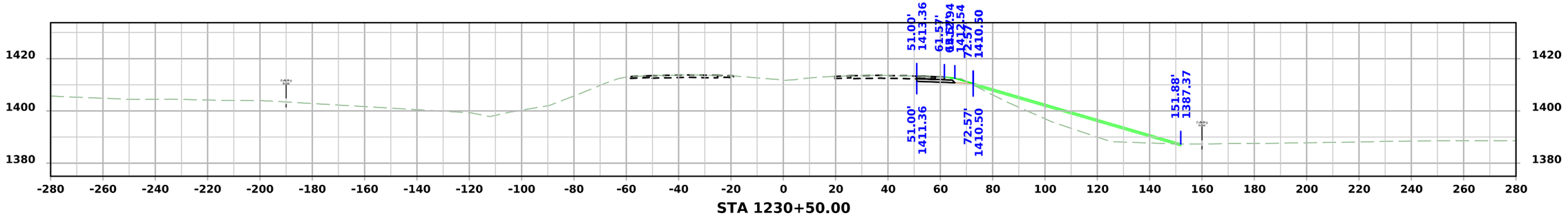
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.5

2:06:17 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

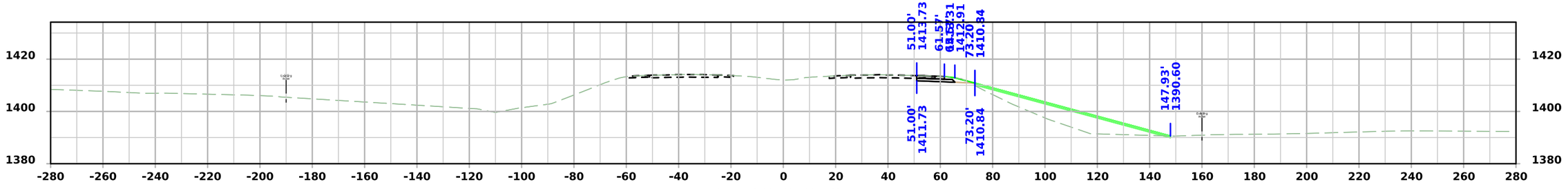
I-80



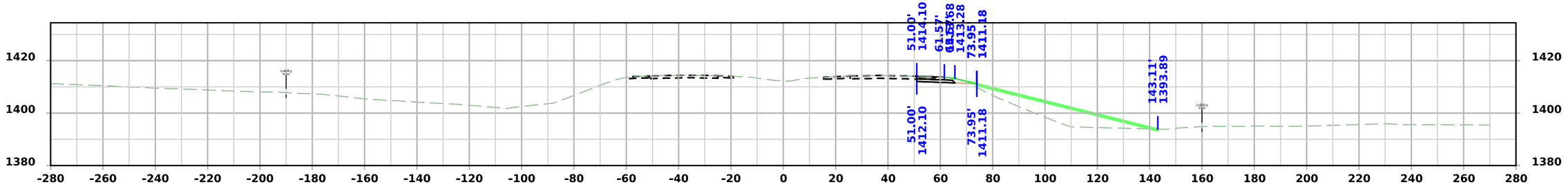
STA 1230+75.00



STA 1230+50.00



STA 1230+25.00

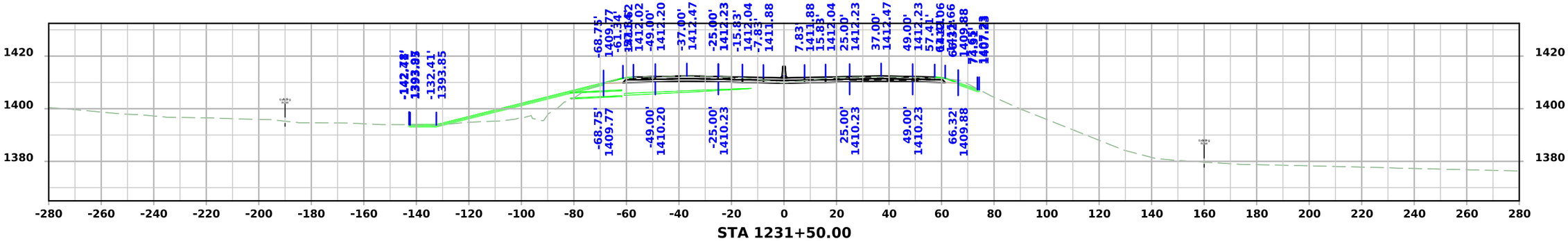


STA 1230+00.00

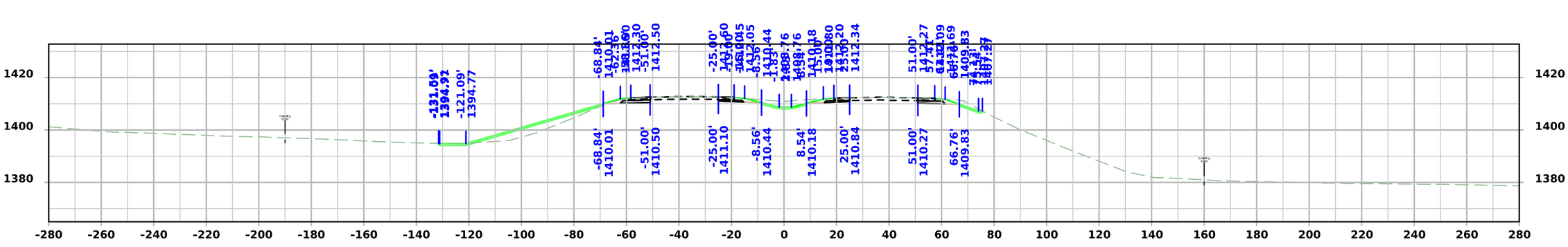
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.6

2:06:18 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



STA 1231+50.00



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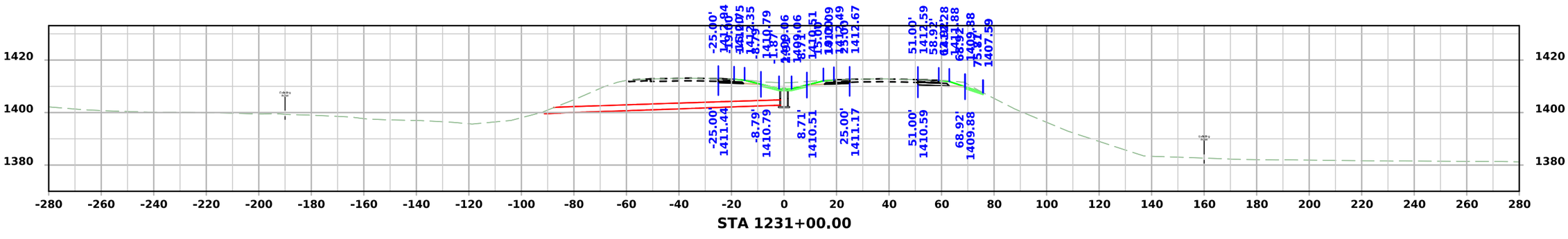
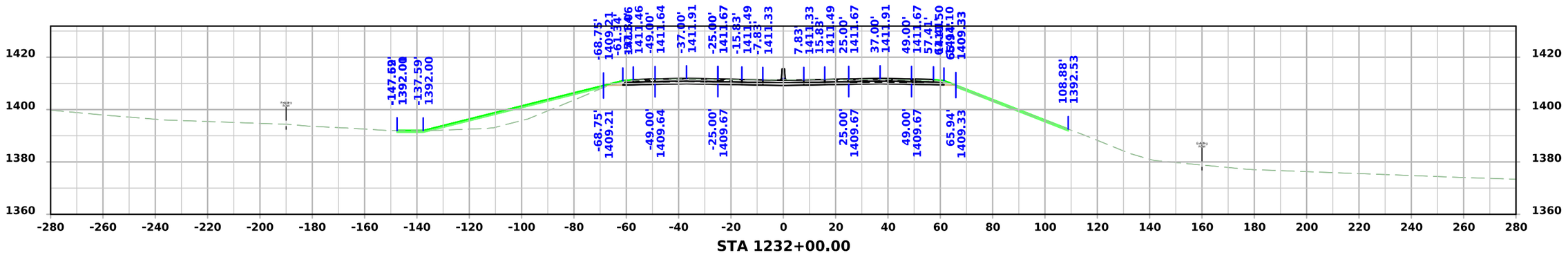


STA 1231+00.00

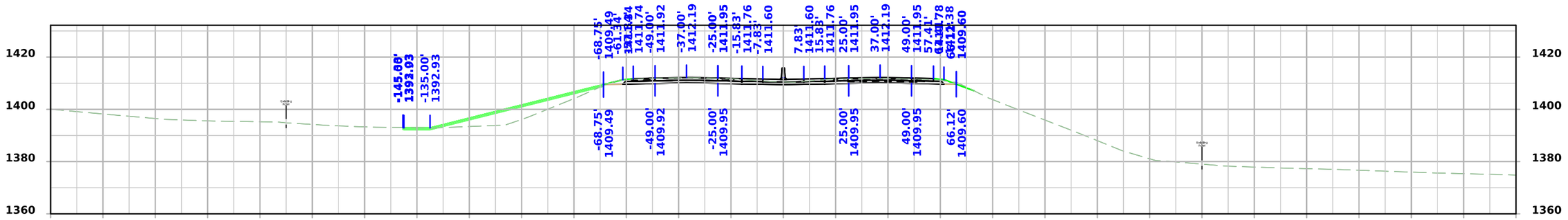
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.7

2:06:20 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

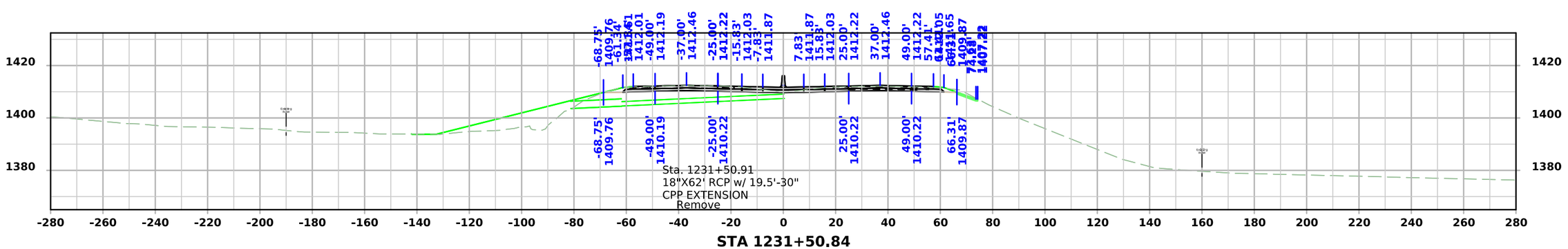
I-80



STA 1232+00.00



STA 1231+75.00



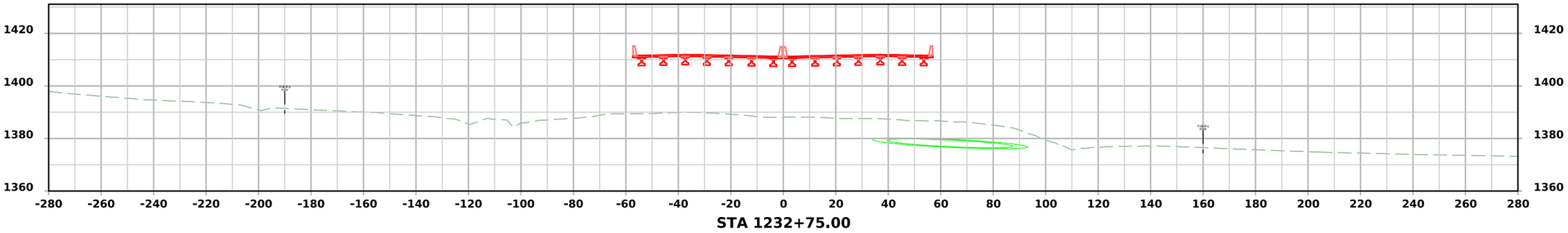
Sta. 1231+50.91
18"X62' RCP w/ 19.5'-30"
CPP EXTENSION
Remove

STA 1231+50.84

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.8

2:06:21 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



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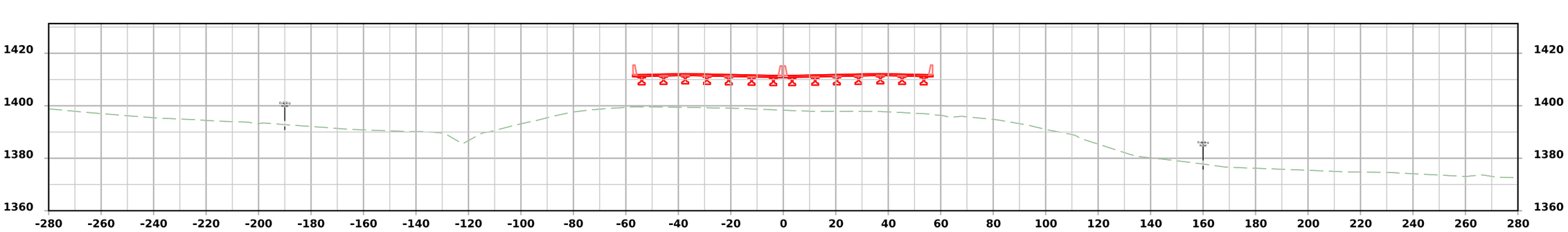

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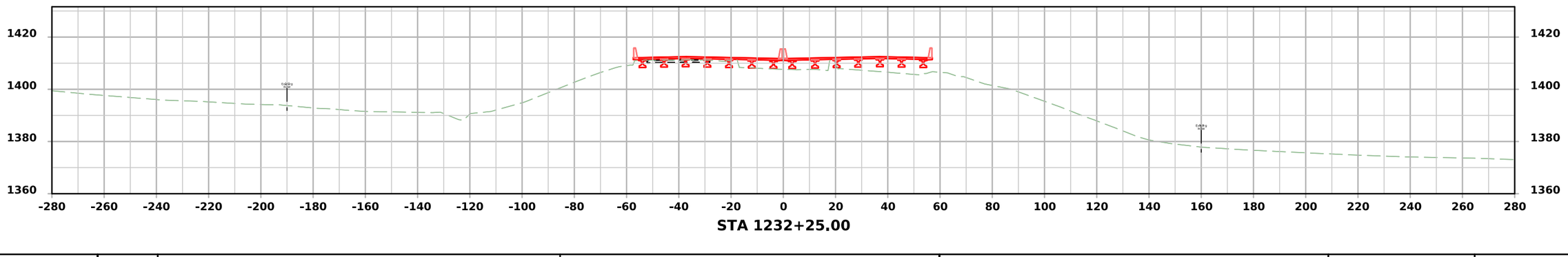
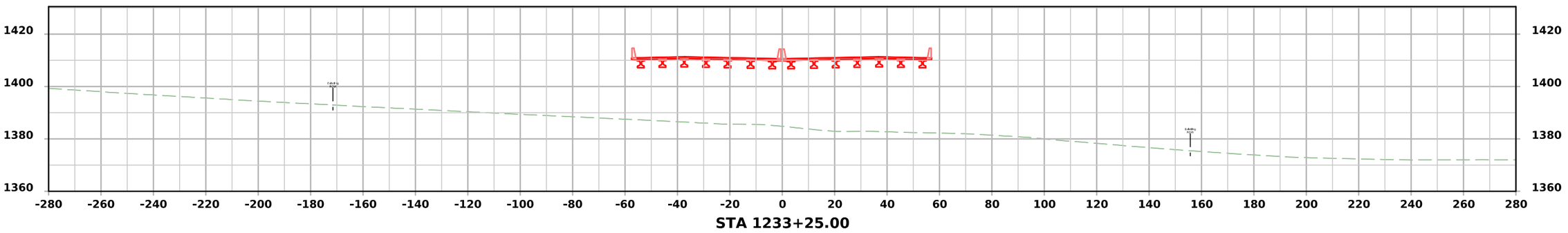


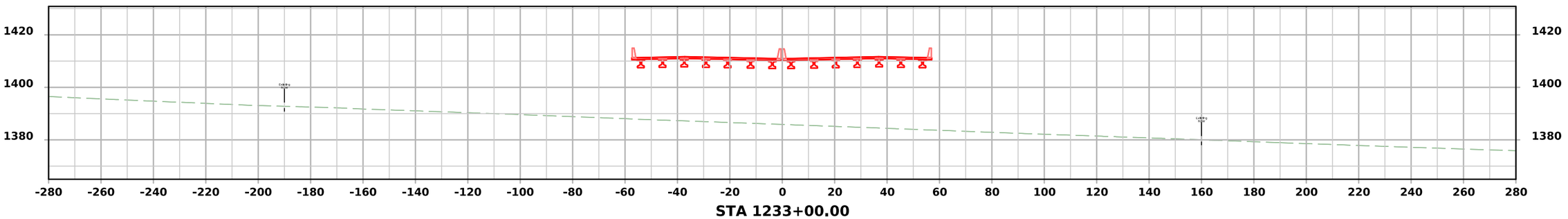
STA 1232+25.00

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.9

2:06:23 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn



STA 1233+25.00



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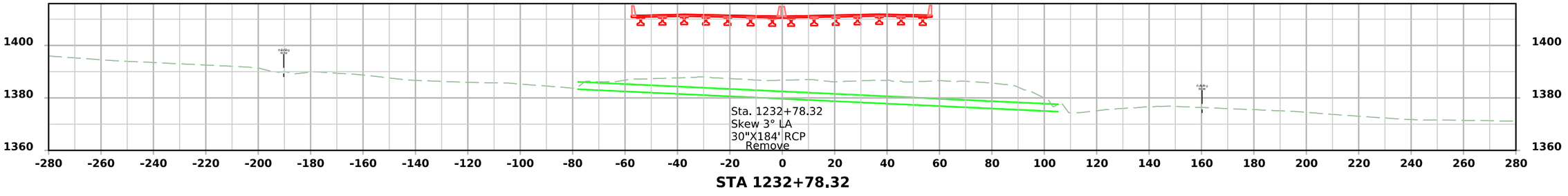
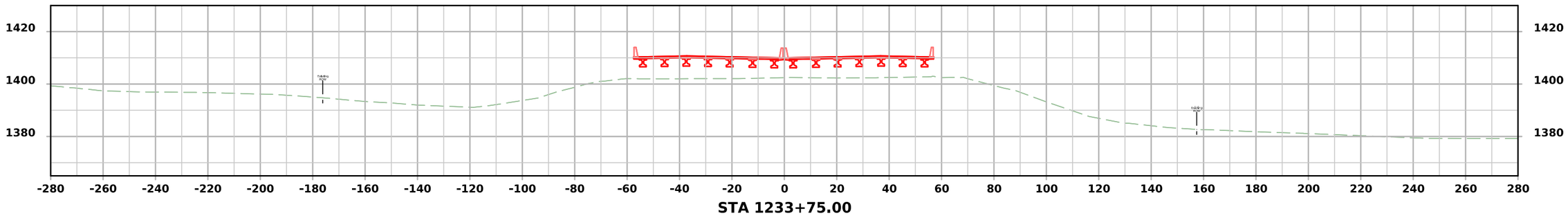


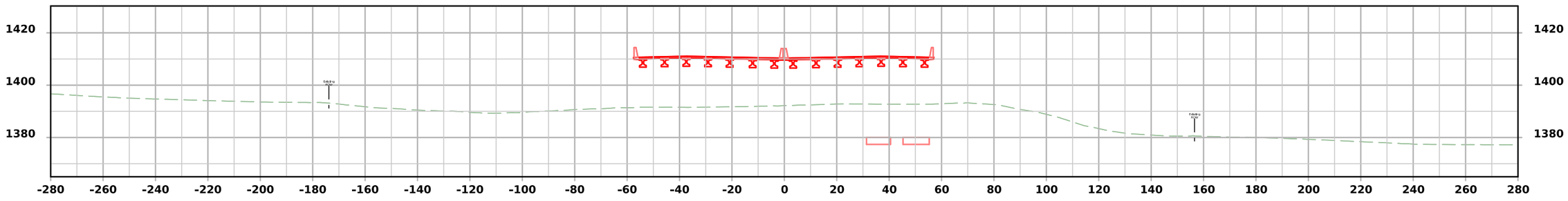
STA 1232+78.32

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.10

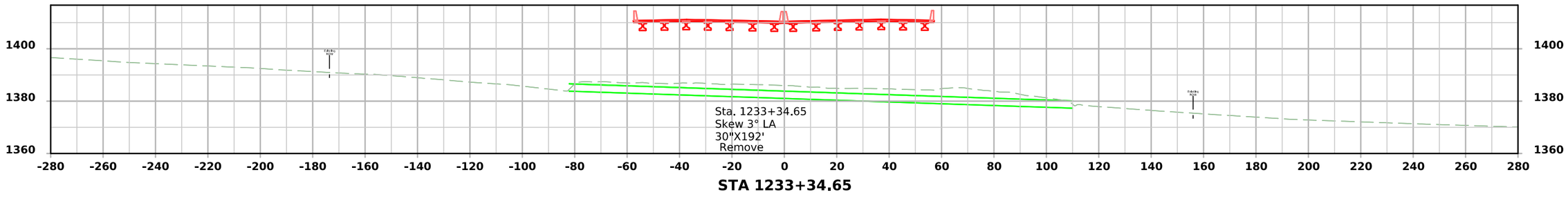
2:06:25 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn



STA 1233+75.00



STA 1233+50.00



STA 1233+34.65

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.11

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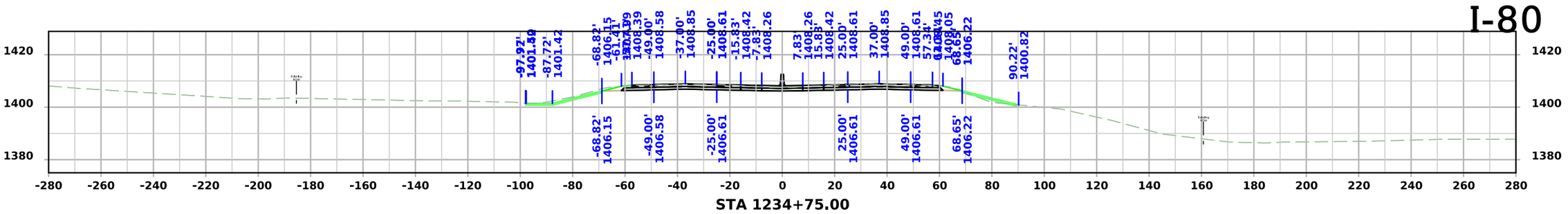
I-80



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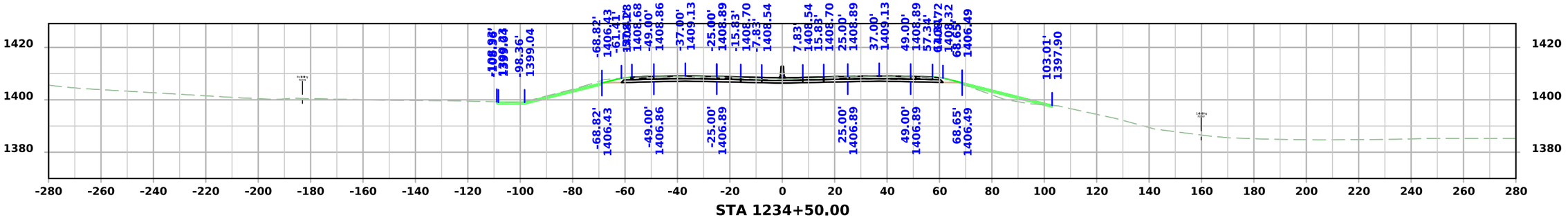

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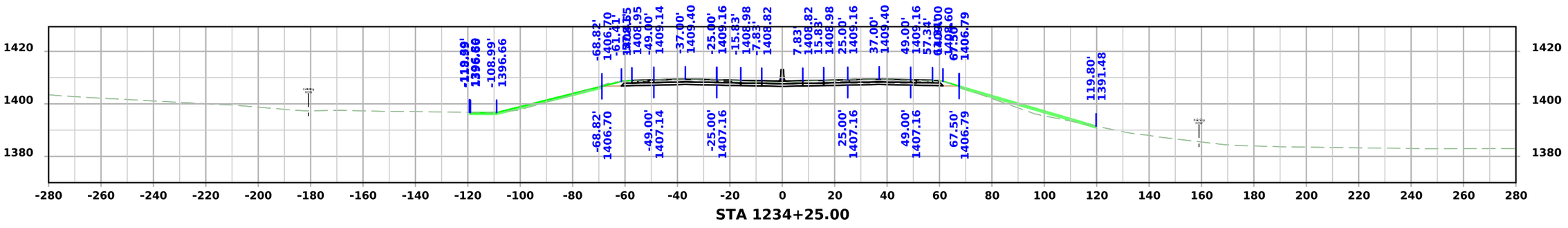
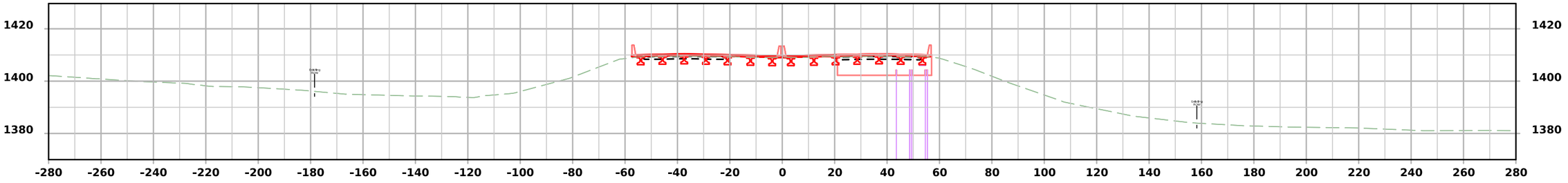


STA 1234+25.00



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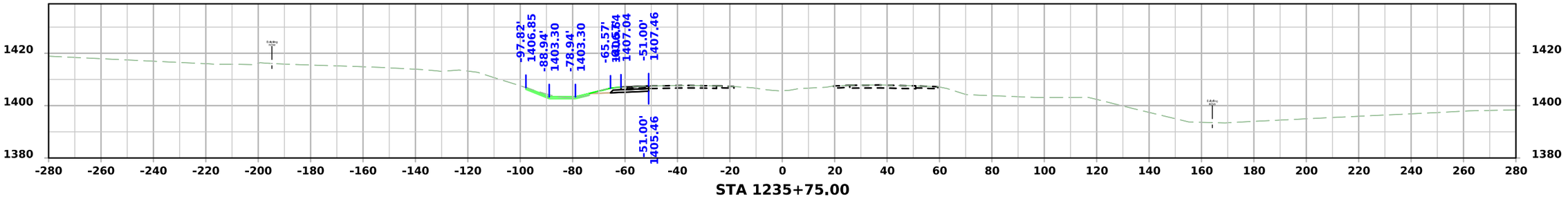
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.12

2:06:29 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



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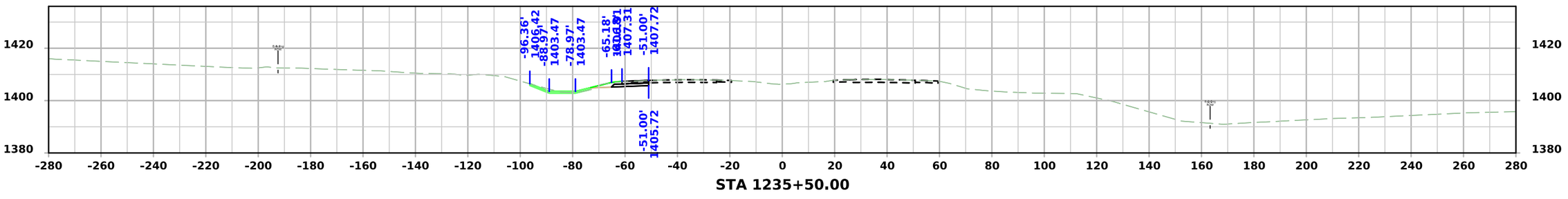

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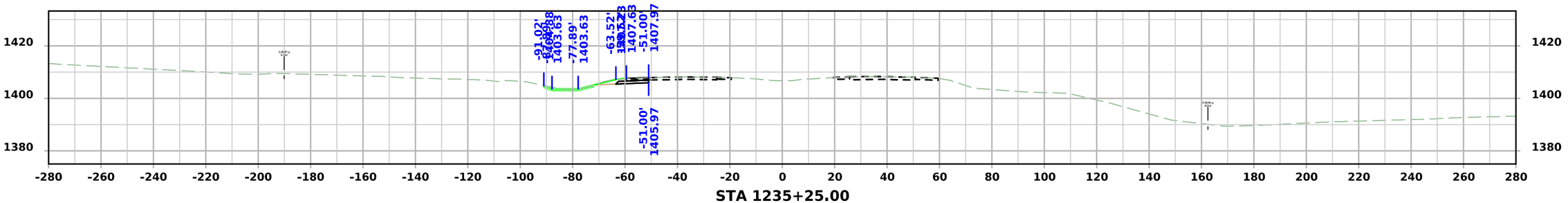

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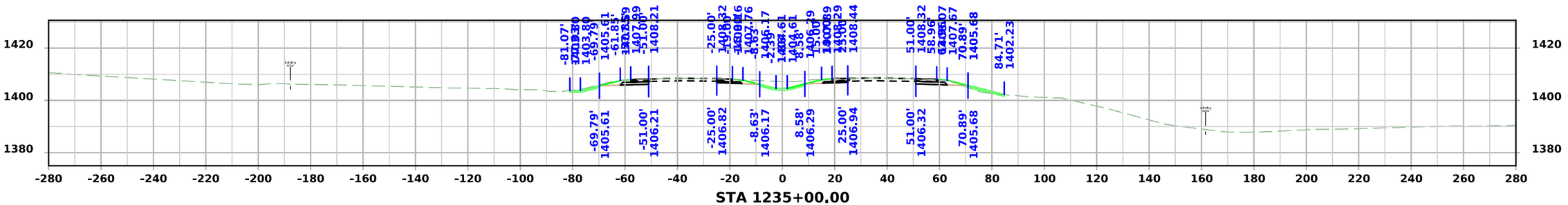
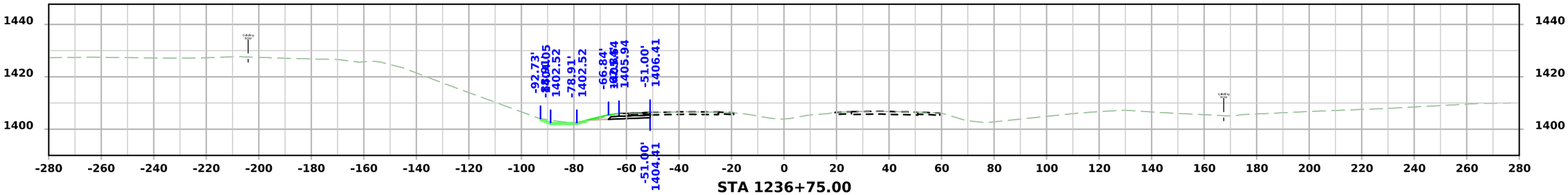


STA 1235+00.00

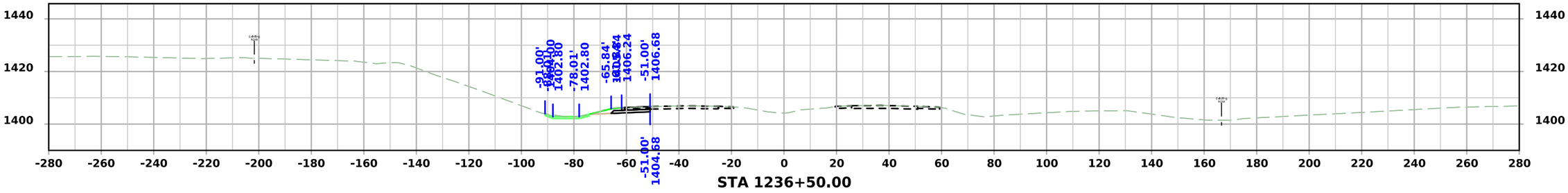
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.13

2:06:30 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



STA 1236+75.00



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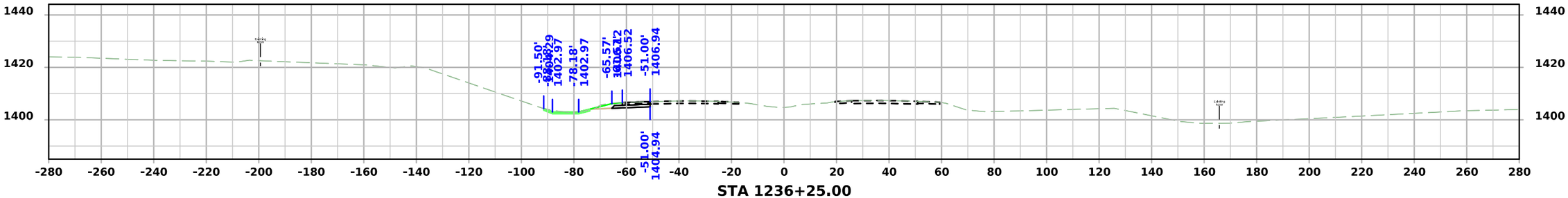

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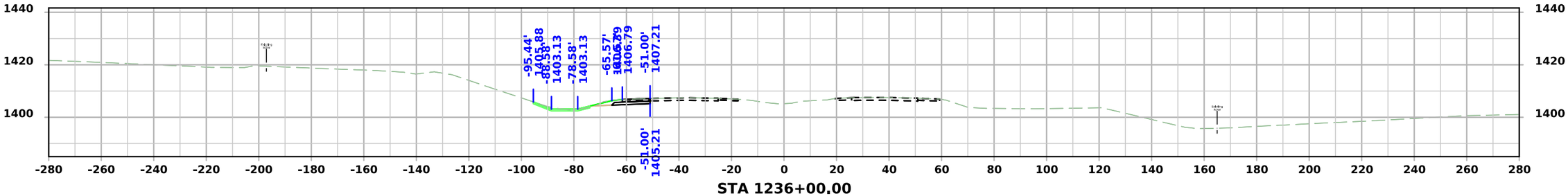
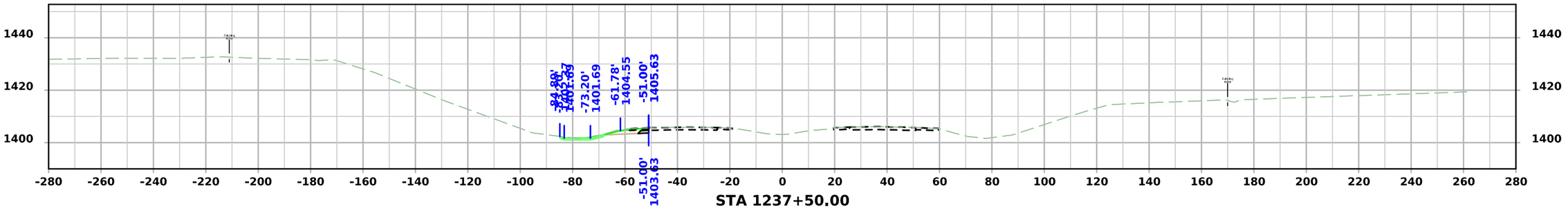


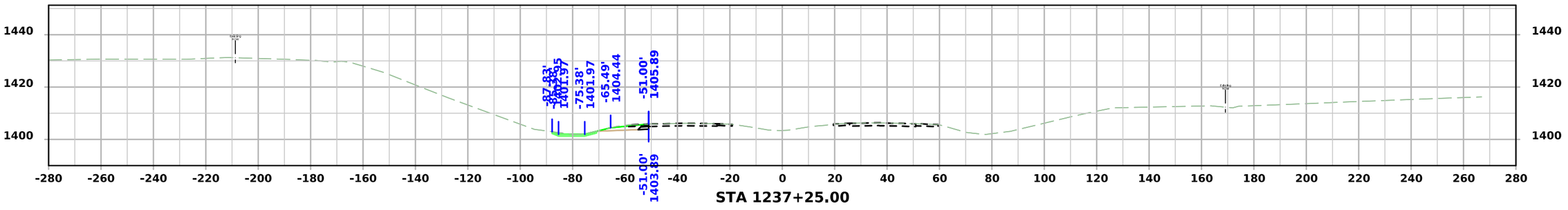
STA 1236+00.00

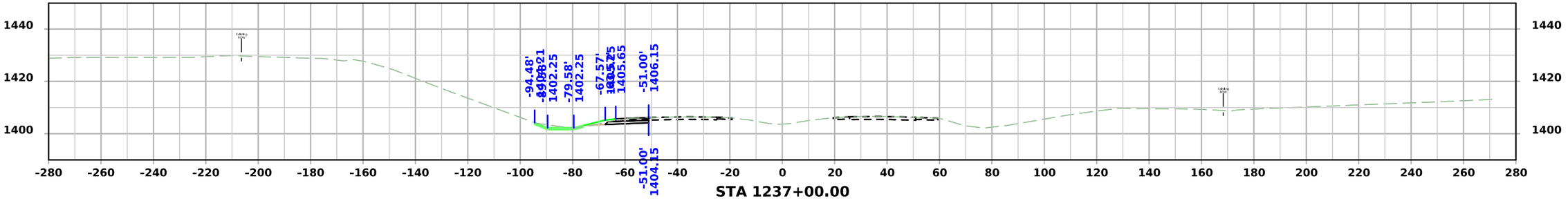
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.14

2:06:31 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



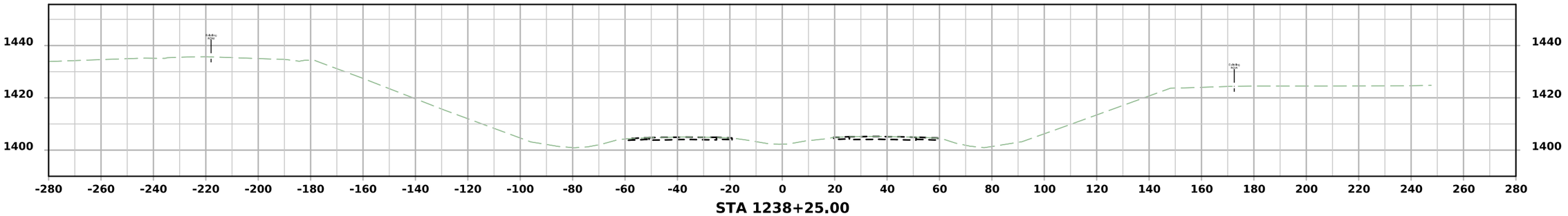




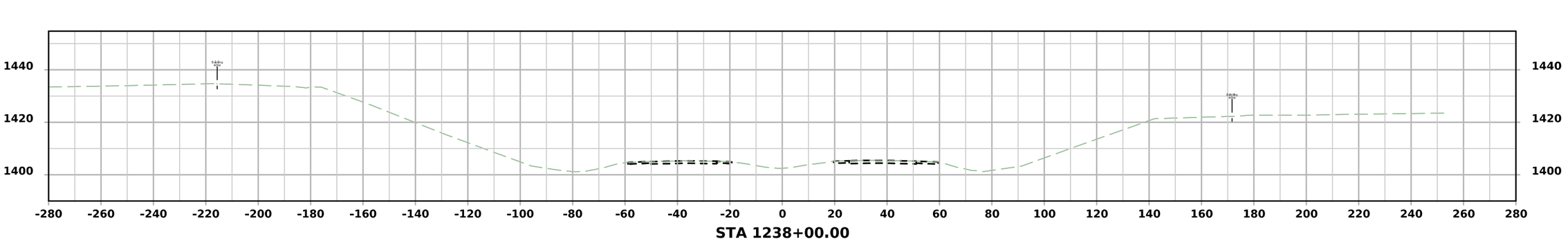
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.15

2:06:32 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80



STA 1238+25.00



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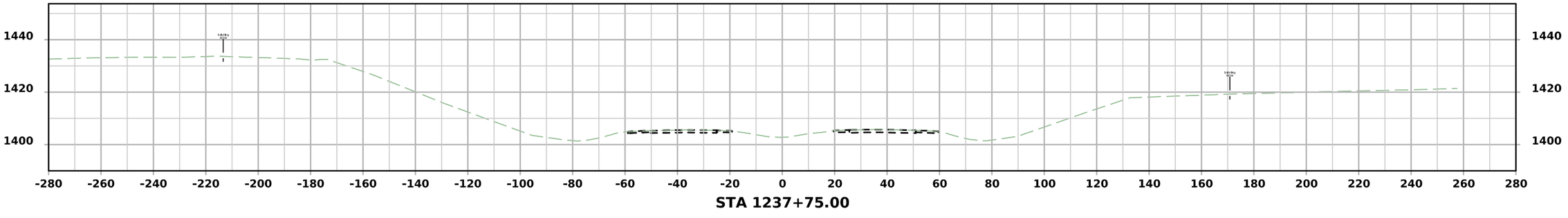
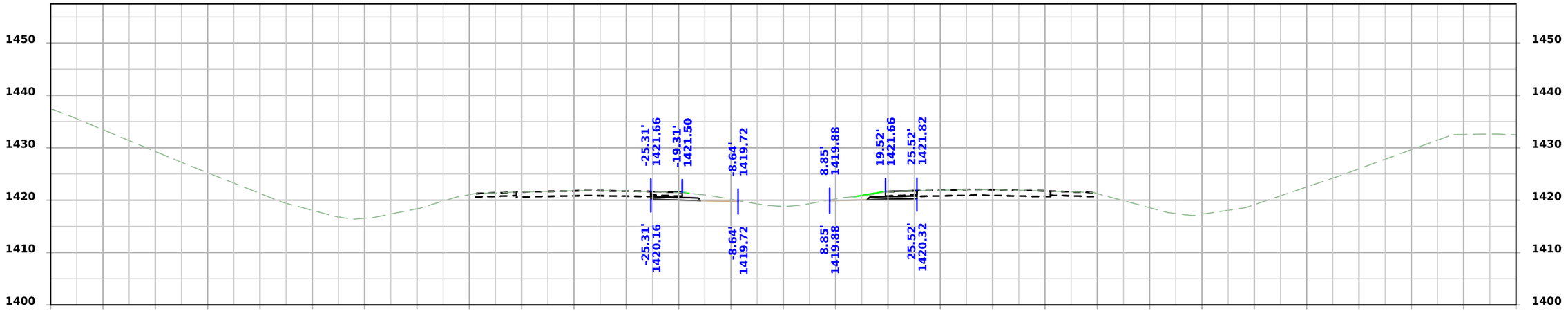


STA 1237+75.00

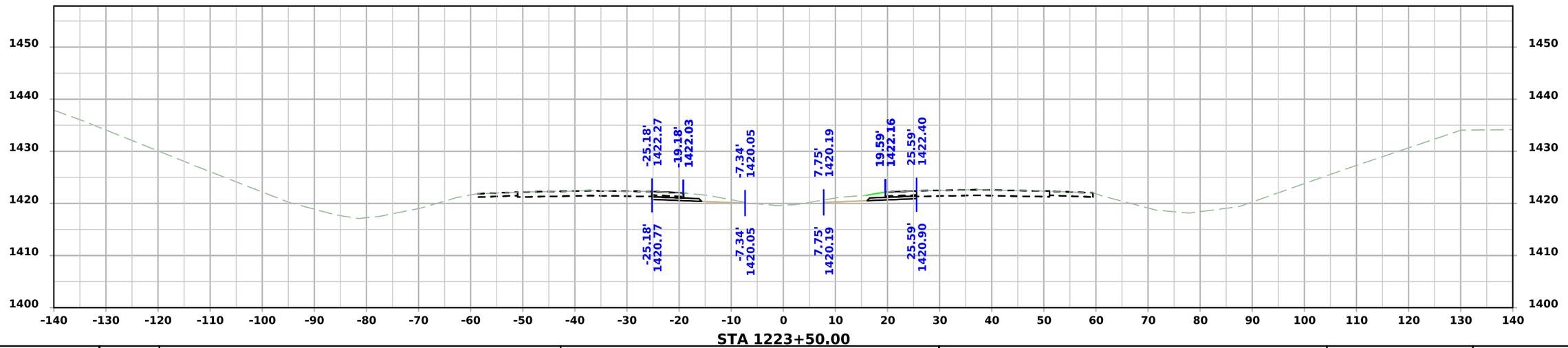
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.16	

2:06:33 PM 12/4/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W02.dgn

I-80 DETOUR



STA 1224+00.00

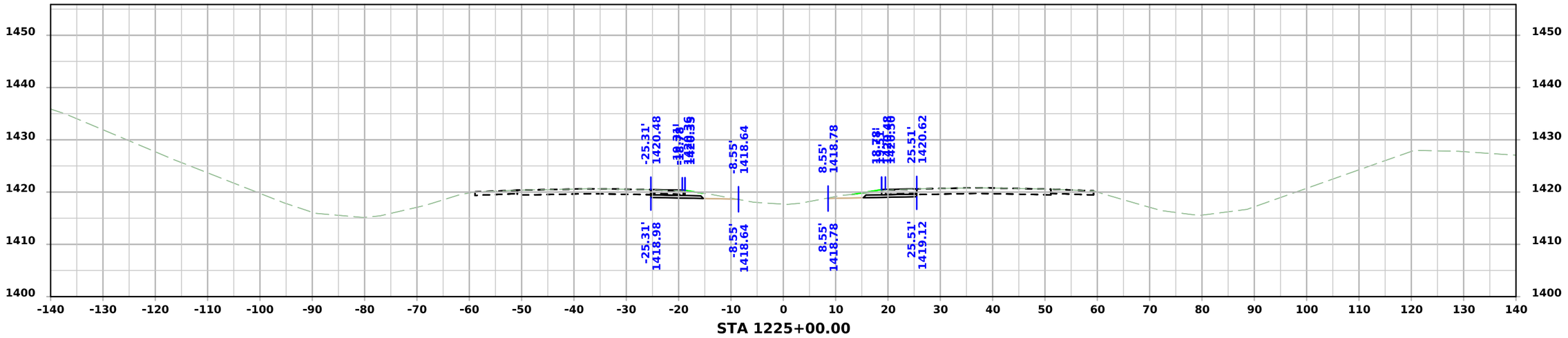


STA 1223+50.00

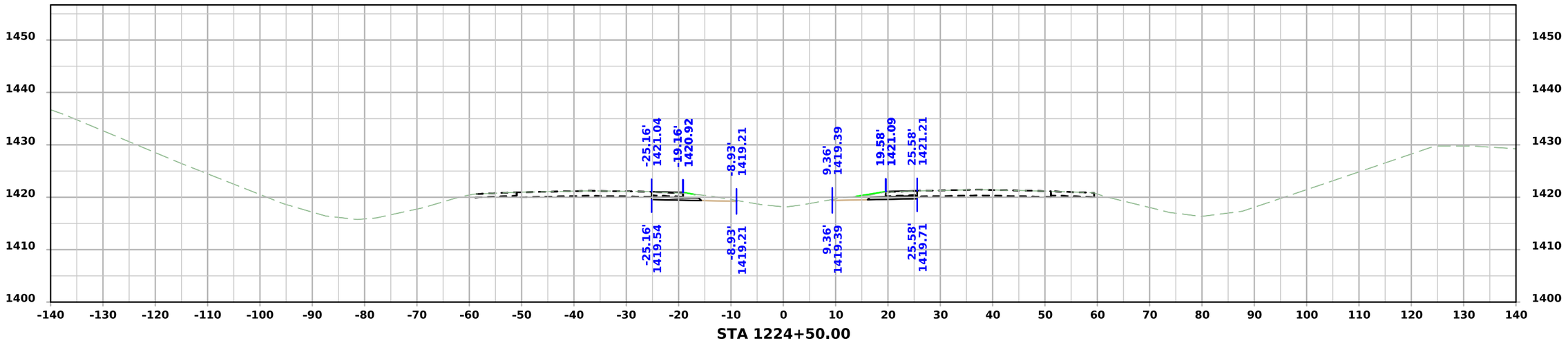
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.17

10:22:23 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1225+00.00

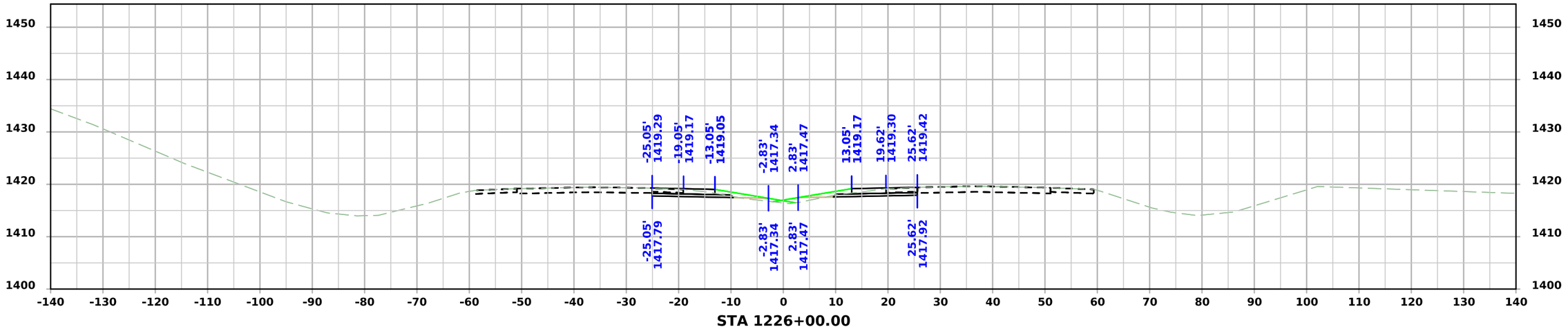


STA 1224+50.00

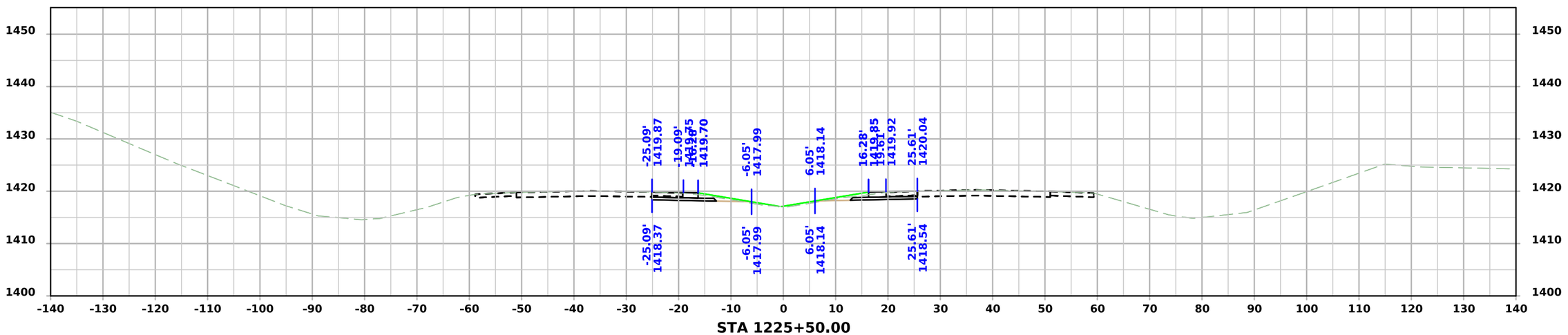
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.18

10:22:23 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1226+00.00

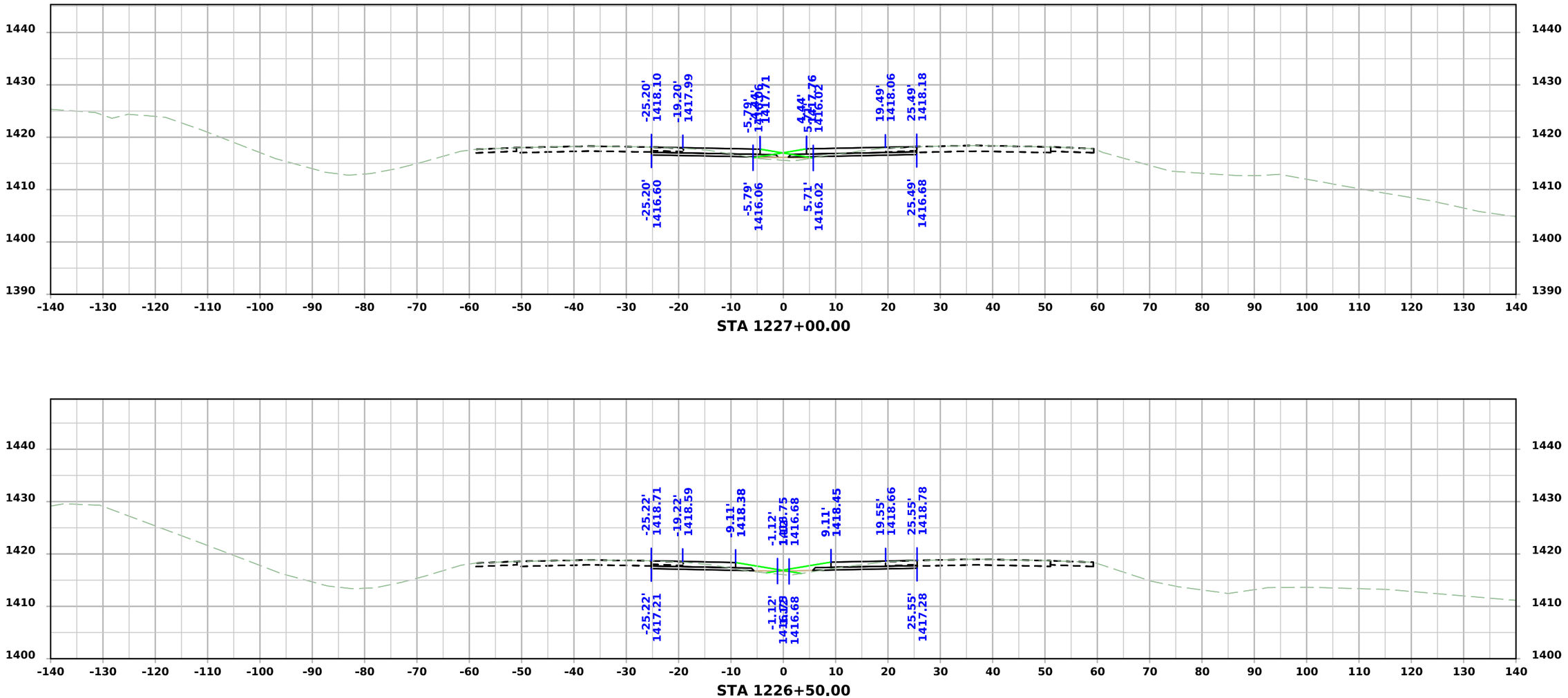


STA 1225+50.00

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.19

10:22:24 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



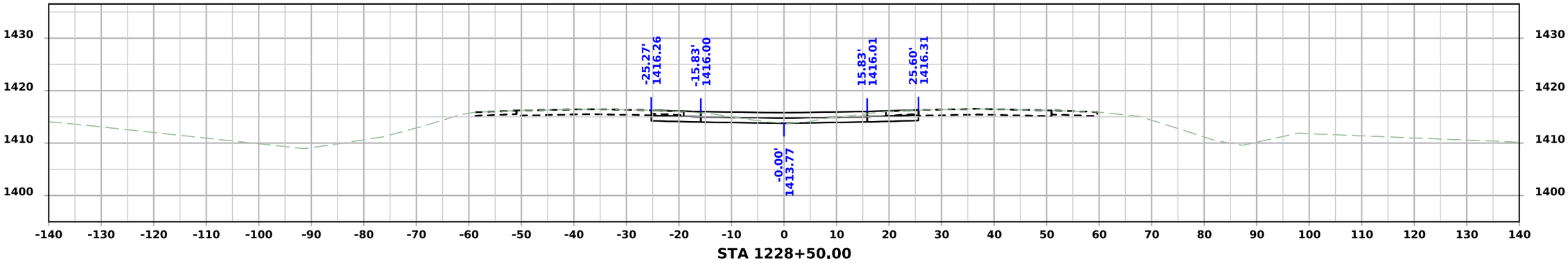
STA 1227+00.00

STA 1226+50.00

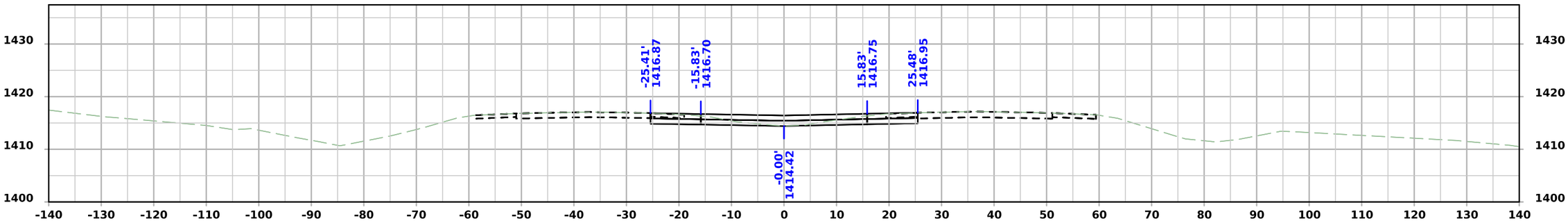
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.20

10:22:25 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

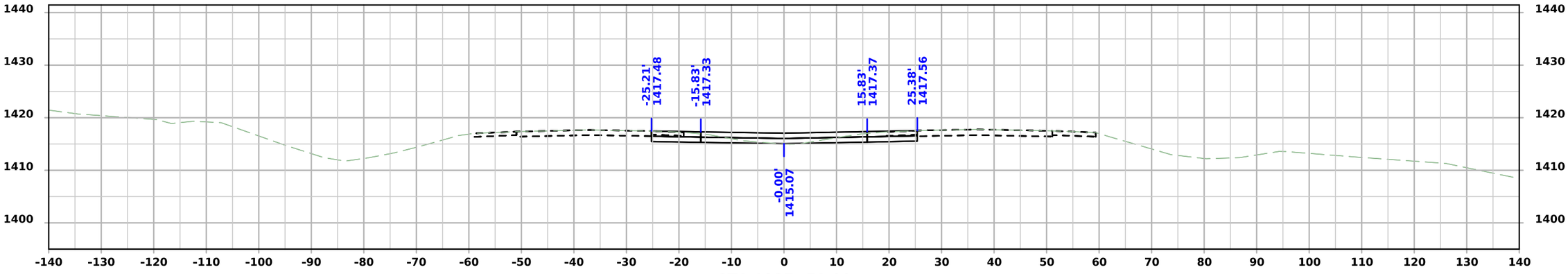
I-80 DETOUR



STA 1228+50.00



STA 1228+00.00

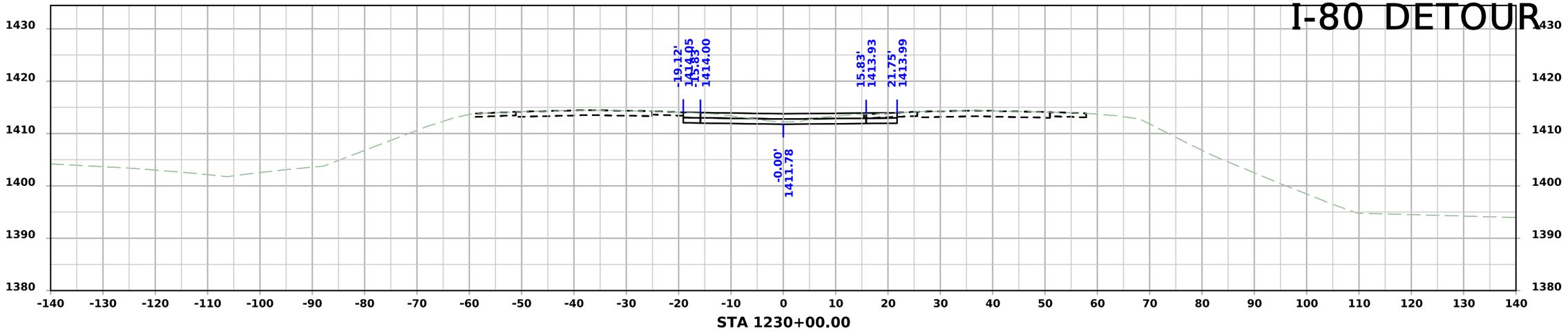


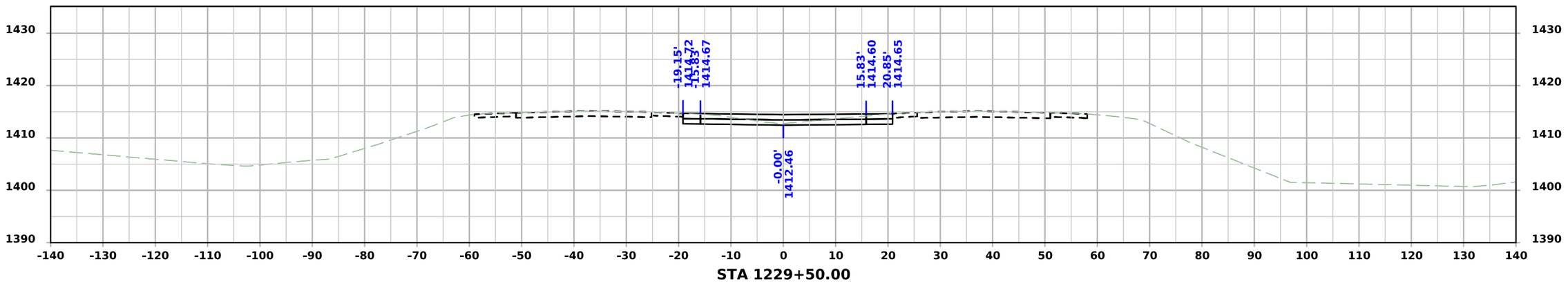
STA 1227+50.00

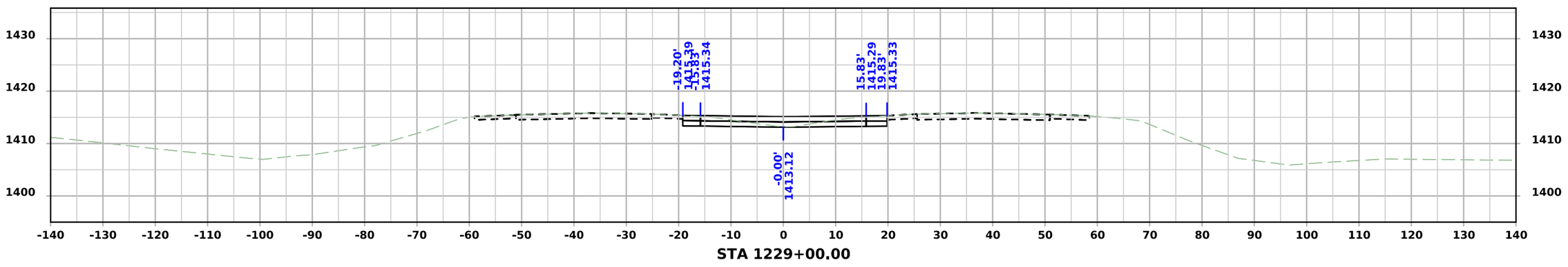
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.21

10:22:26 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



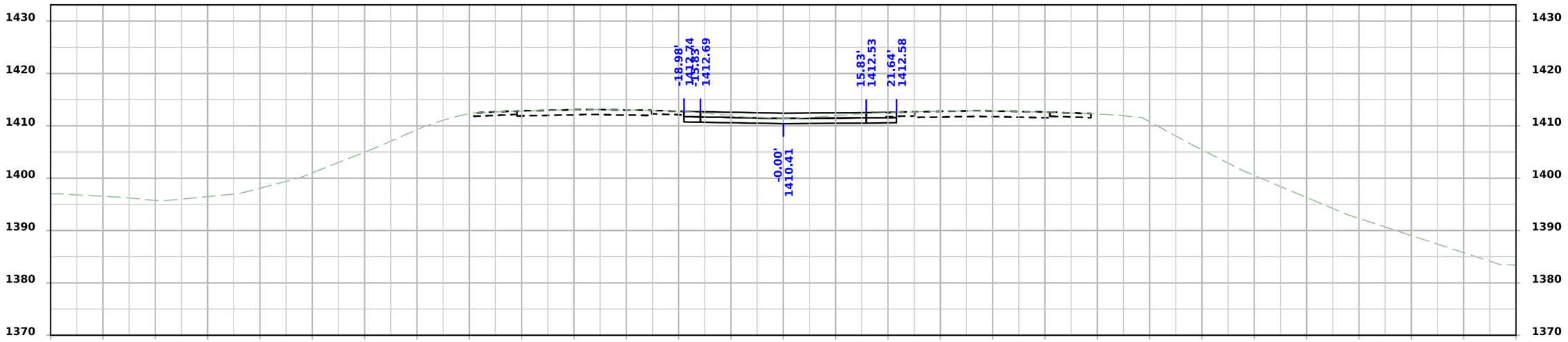




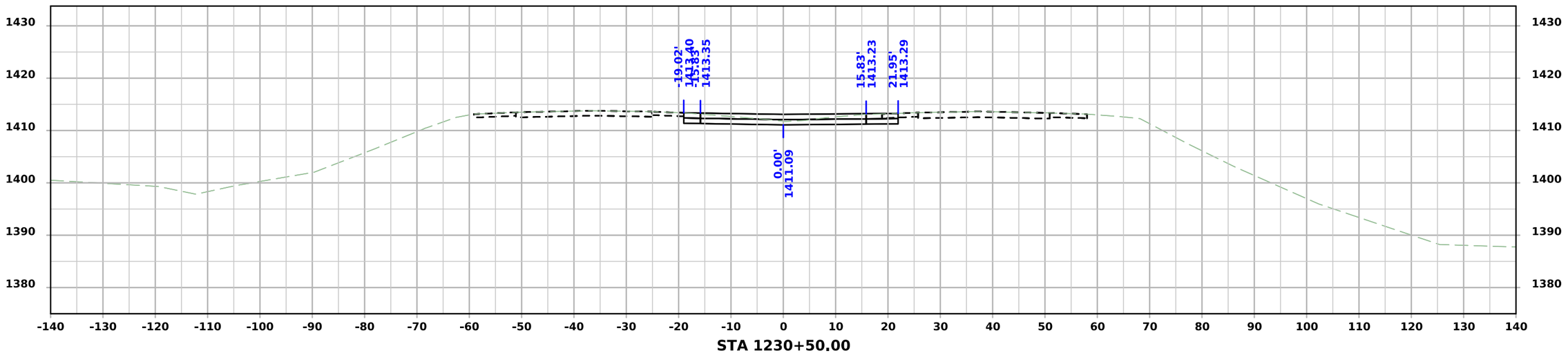
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.22

10:22:27 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1231+00.00

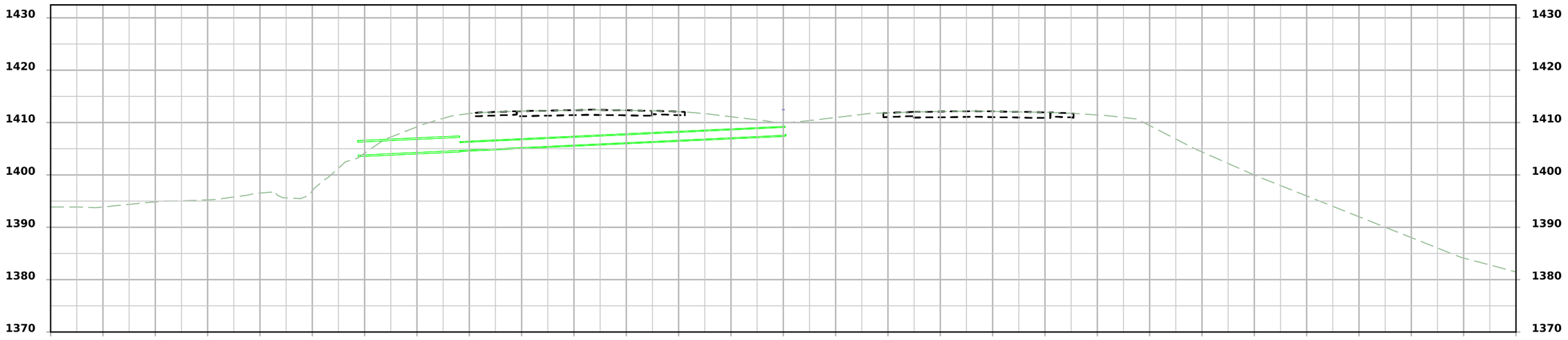


STA 1230+50.00

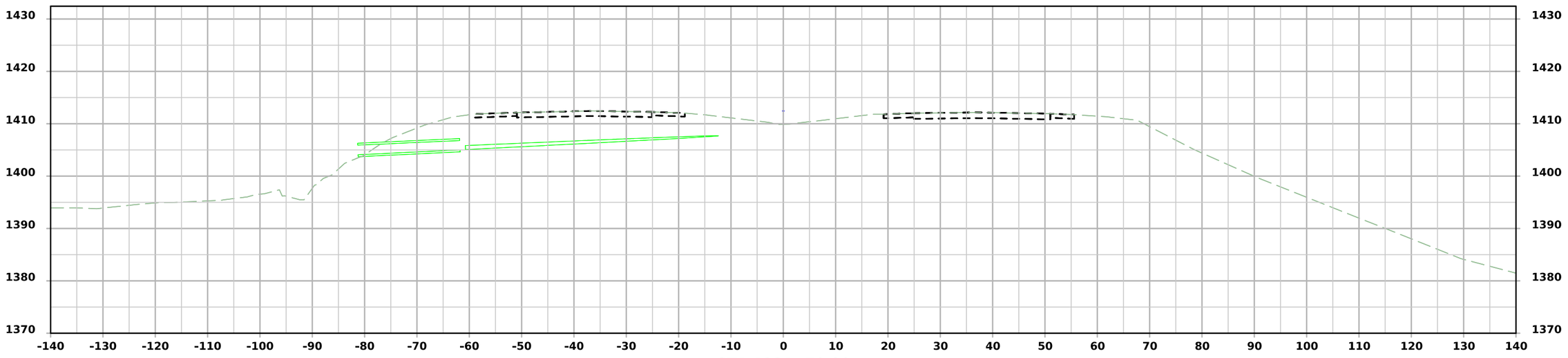
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.23

10:22:28 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1231+50.98

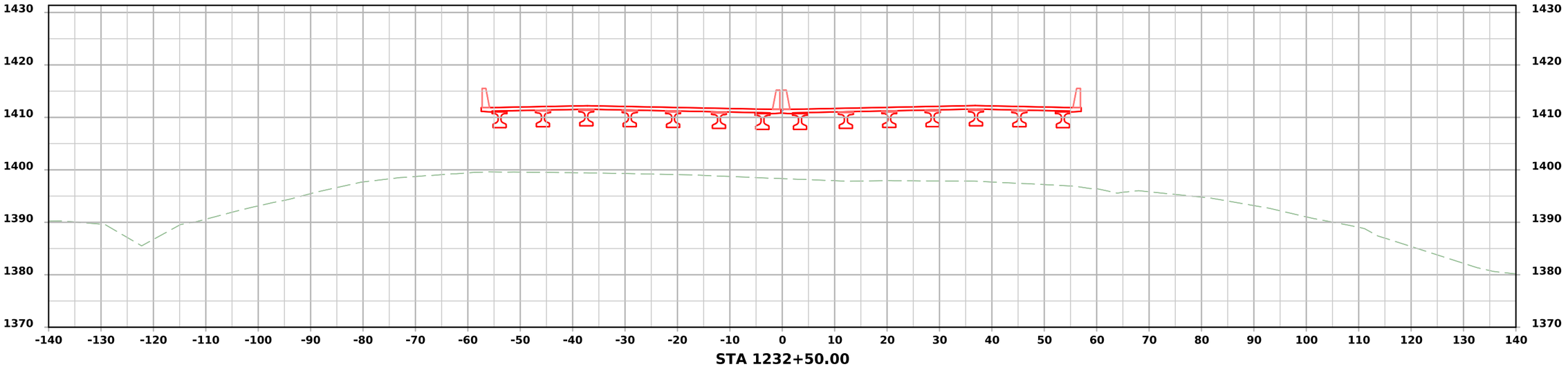


STA 1231+50.00

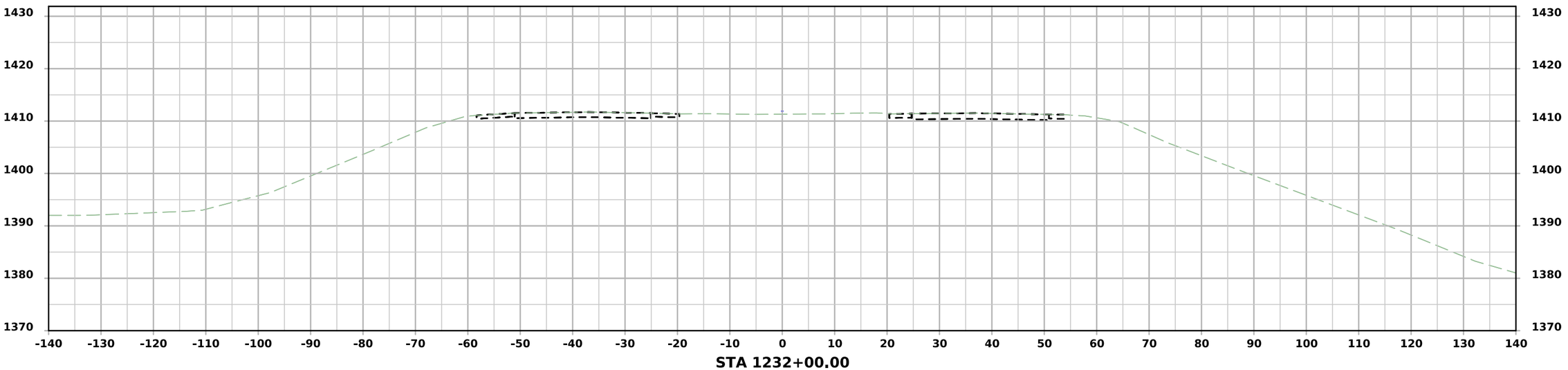
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.24

10:22:28 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1232+50.00

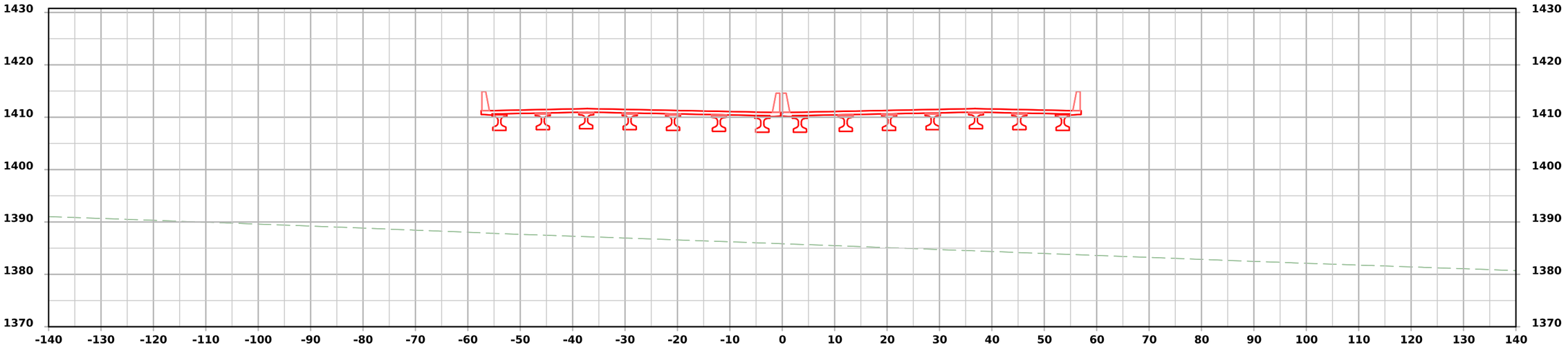


STA 1232+00.00

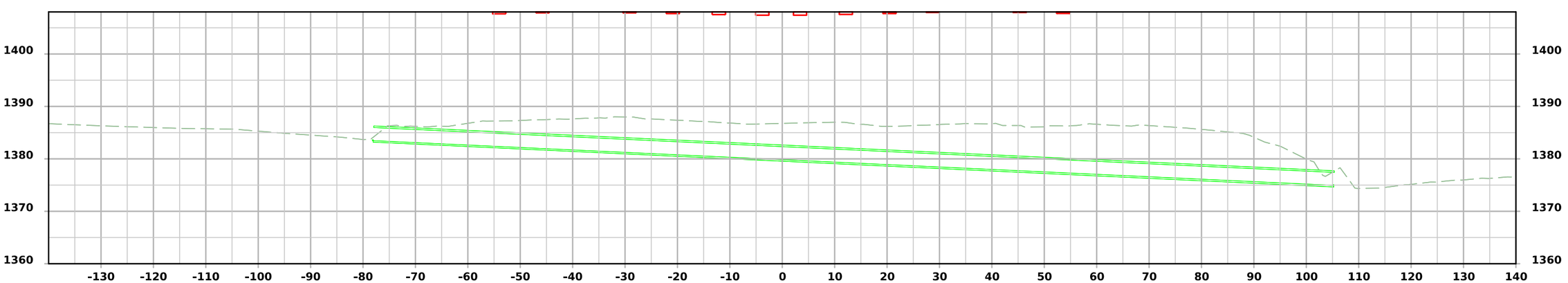
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.25

10:22:30 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1233+00.00

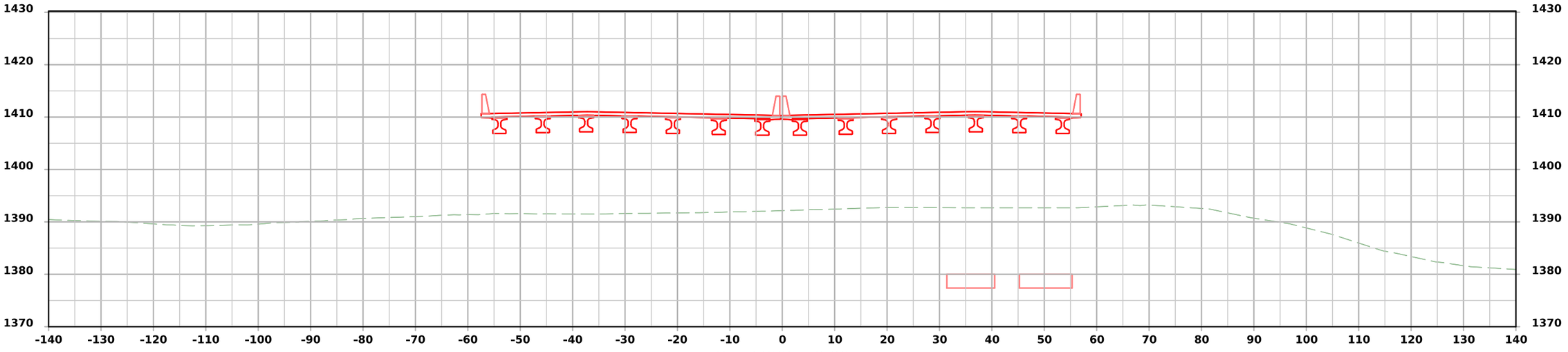


STA 1232+78.32

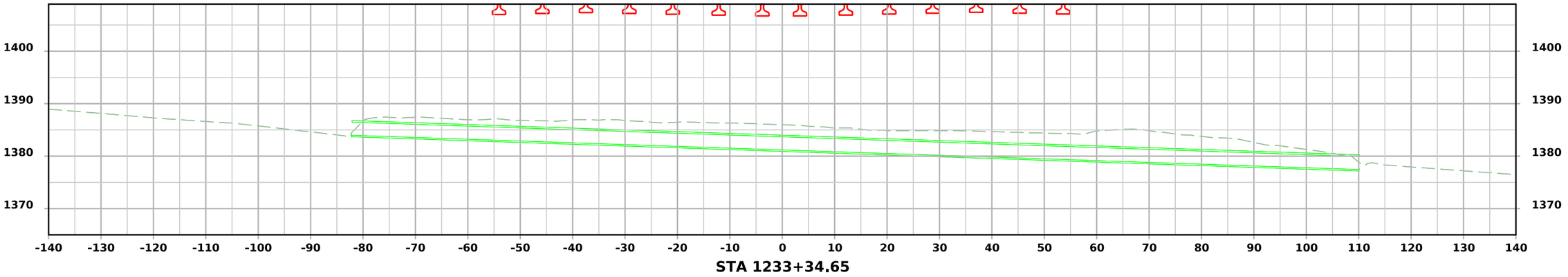
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.26

10:22:31 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1233+50.00



STA 1233+34.65

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.27

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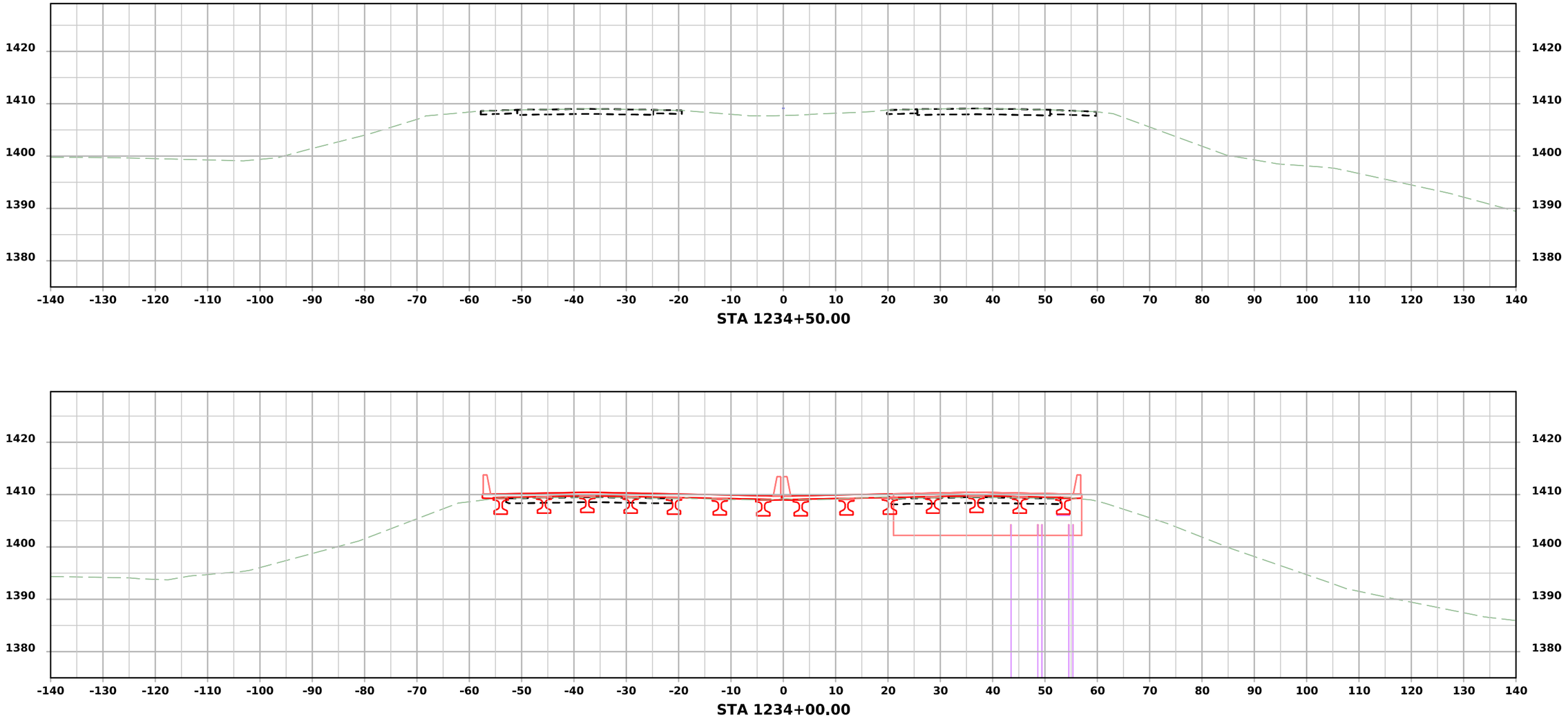
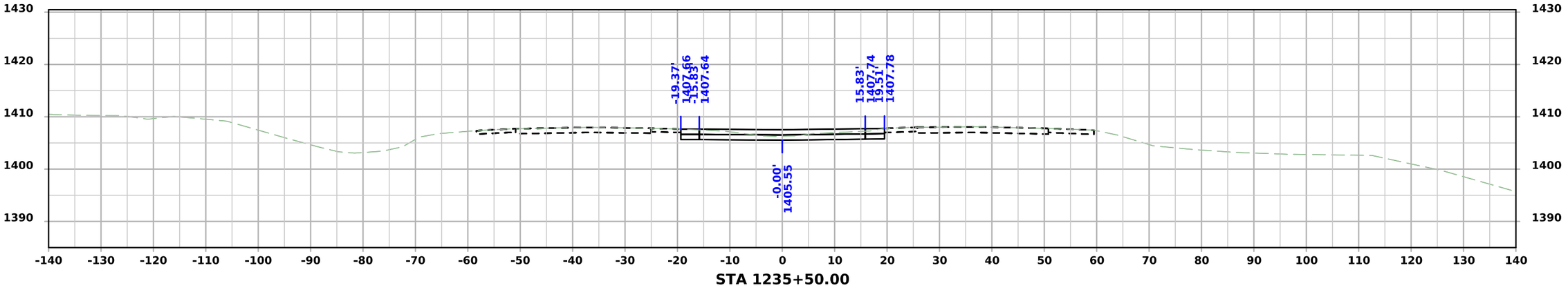
I-80 DETOUR



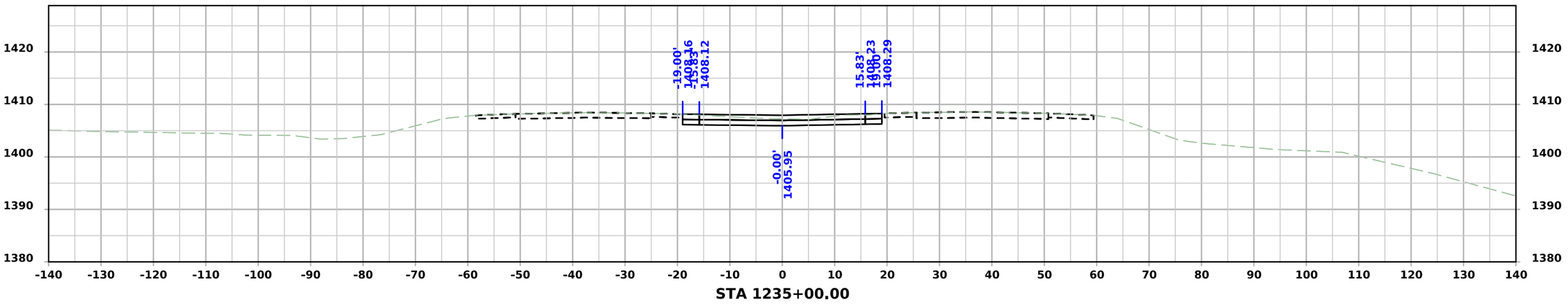
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.28

10:22:34 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1235+50.00

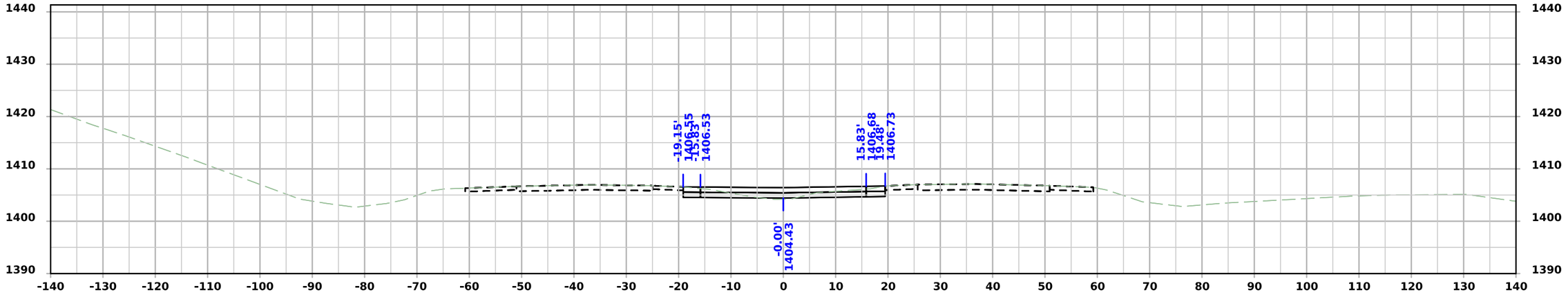


STA 1235+00.00

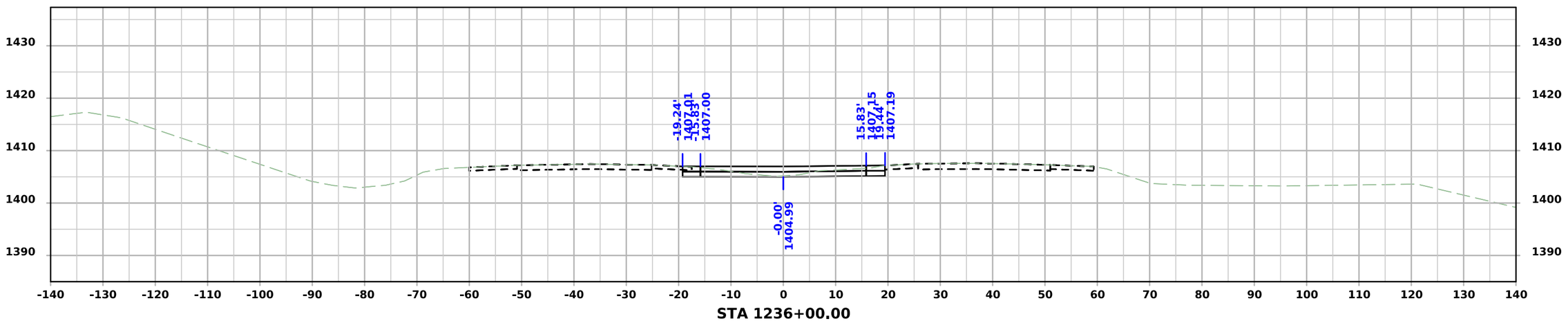
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.29

10:22:34 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1236+50.00



STA 1236+00.00

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.30

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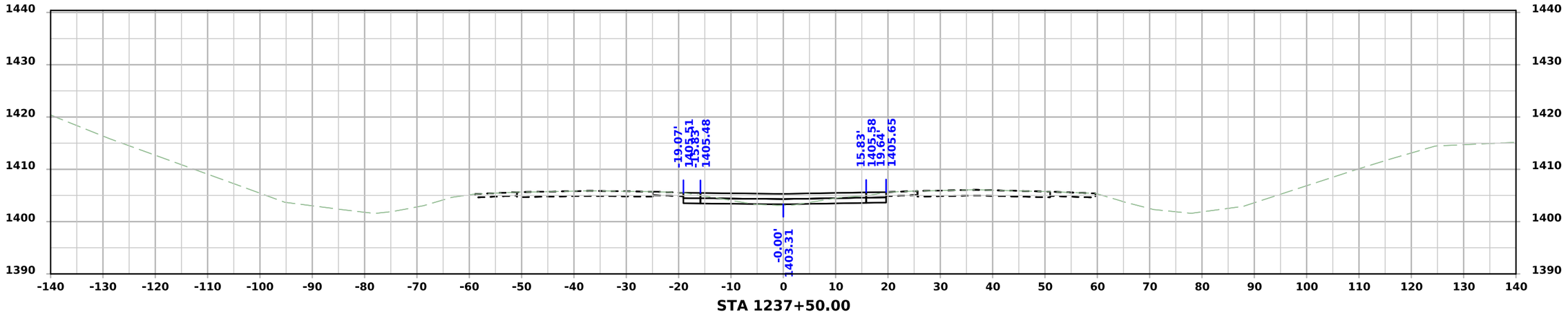
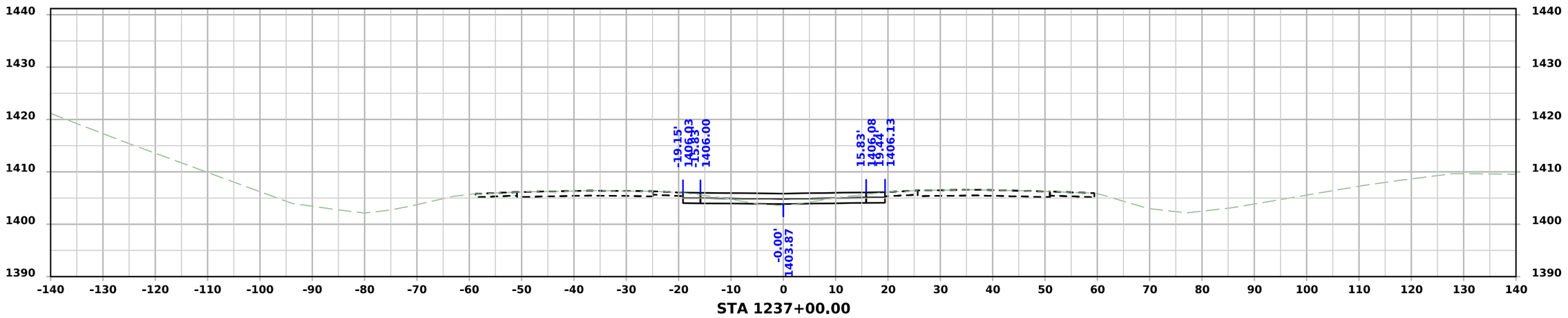
I-80 DETOUR



STA 1237+50.00

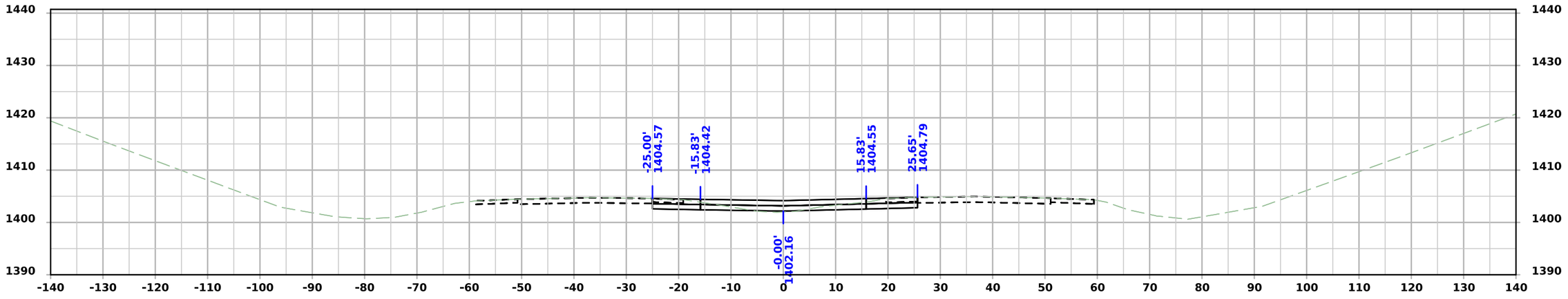


STA 1237+00.00

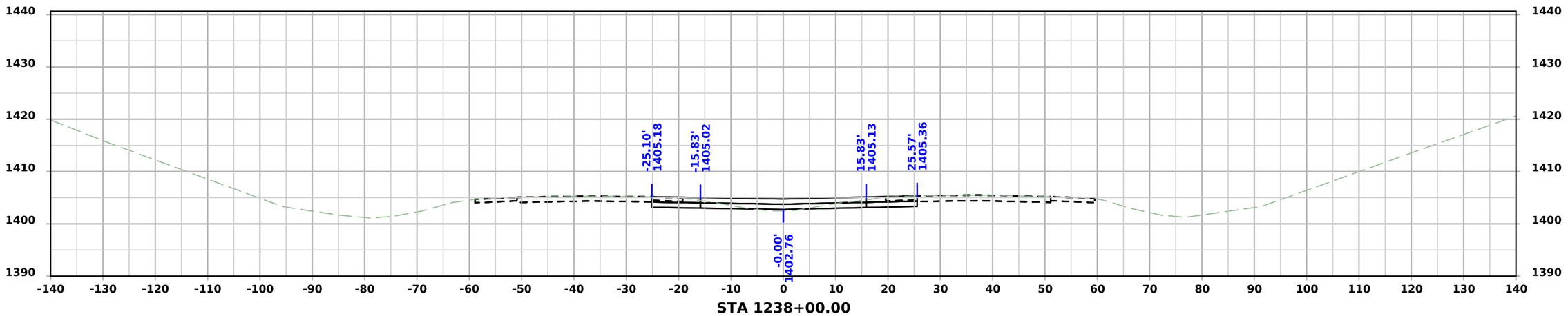
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.31

10:22:36 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1238+50.00

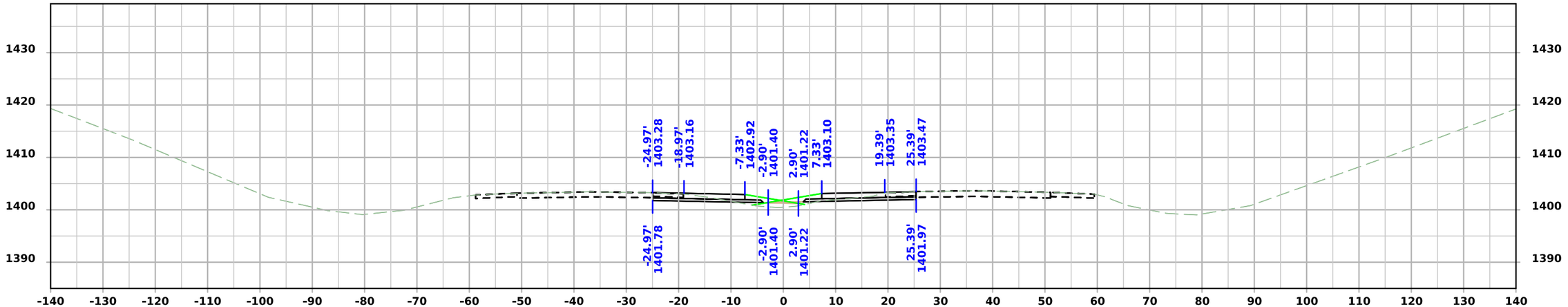


STA 1238+00.00

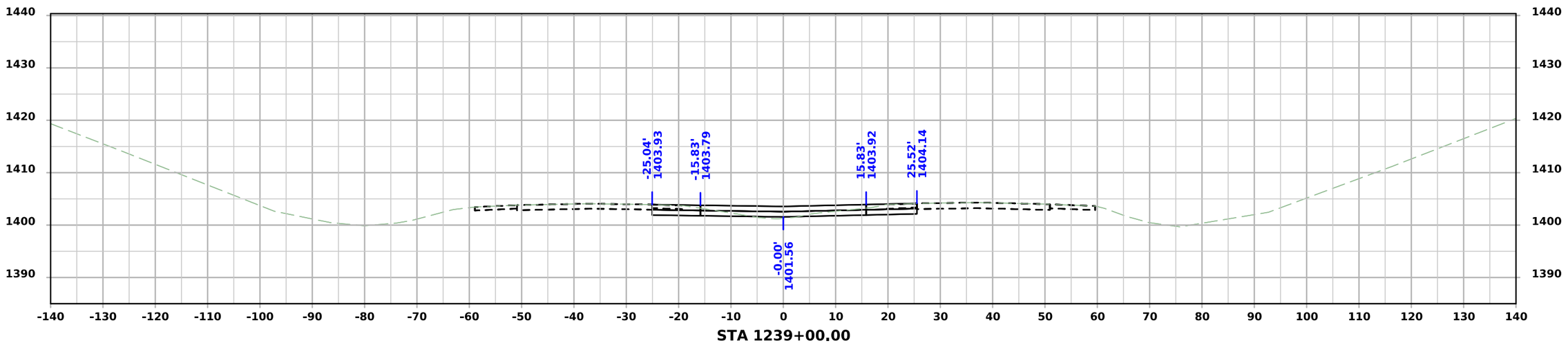
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.32

10:22:37 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1239+50.00

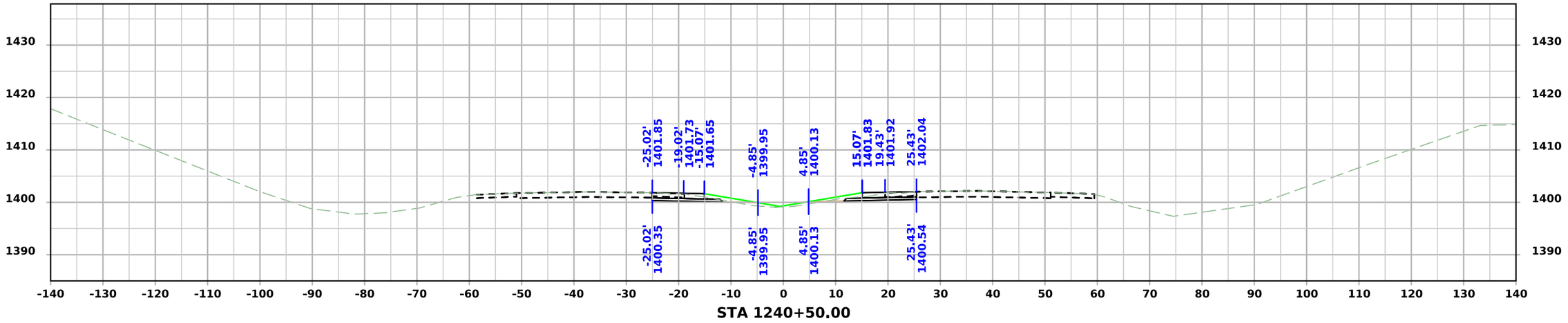


STA 1239+00.00

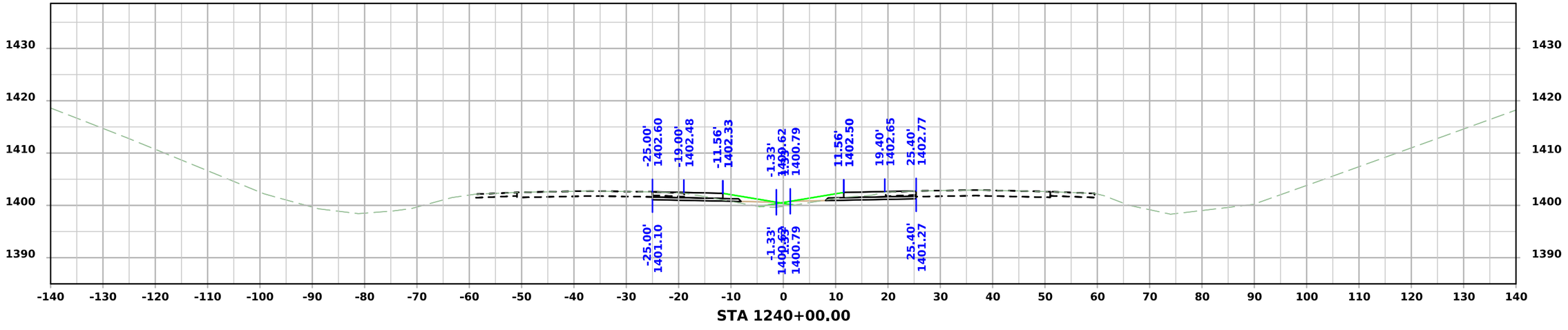
FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.33

10:22:37 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



STA 1240+50.00

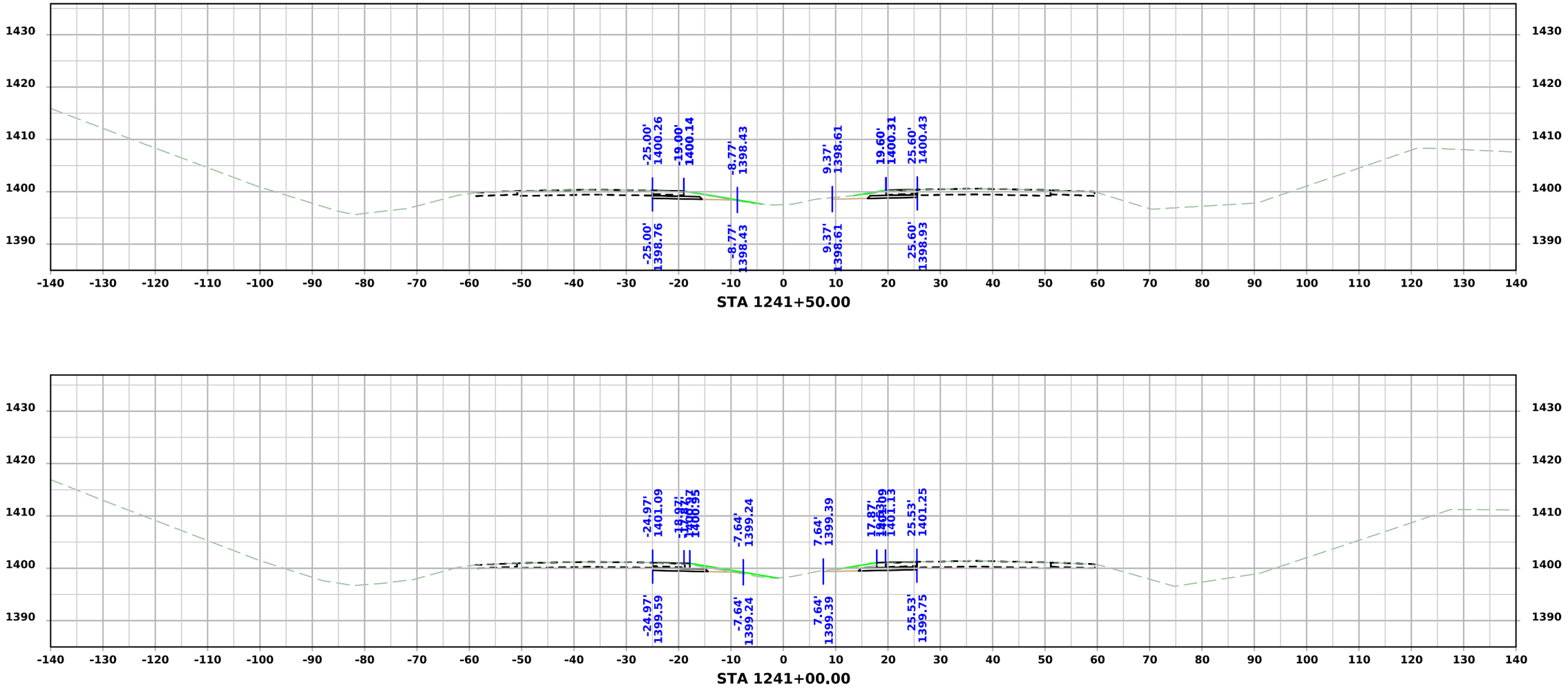


STA 1240+00.00

FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.34	

10:22:38 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn

I-80 DETOUR



FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.35

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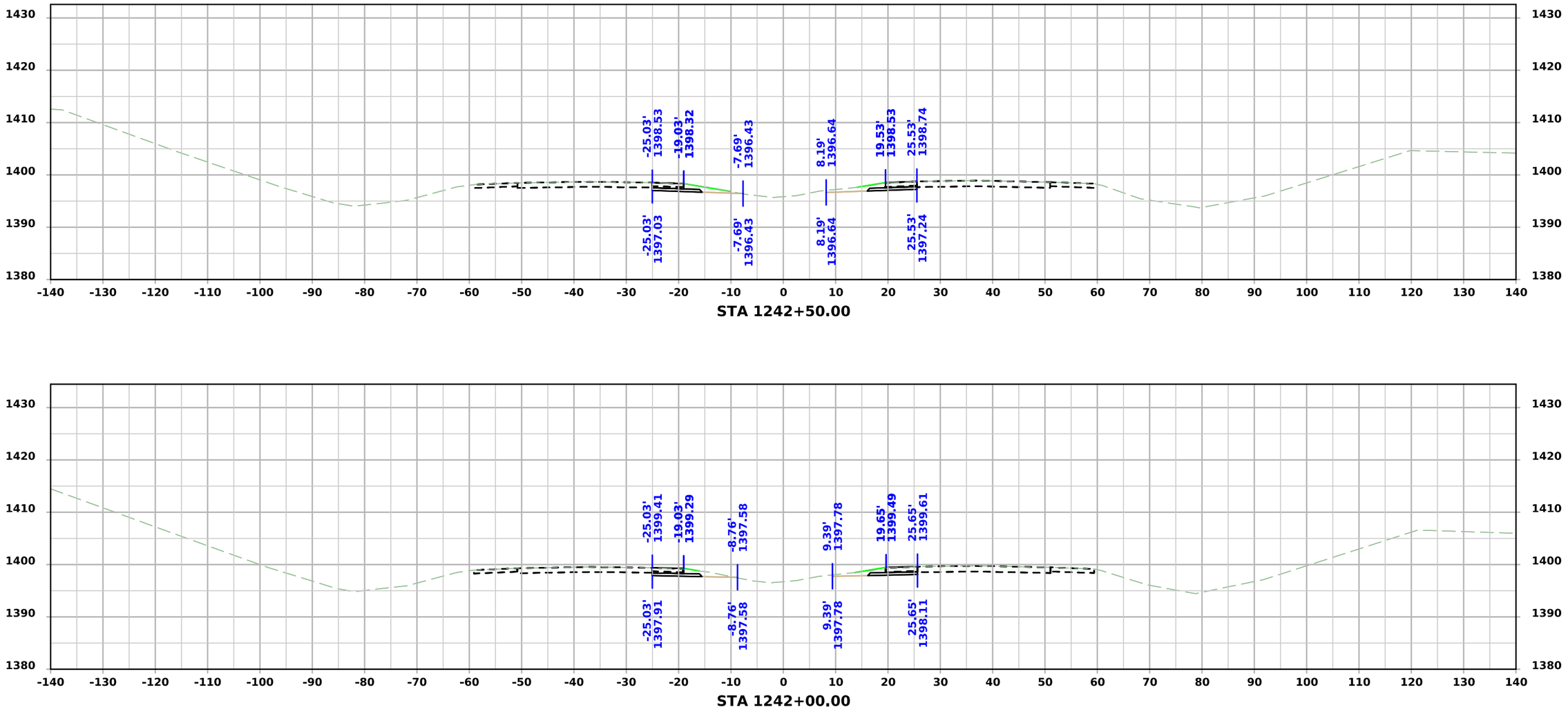
I-80 DETOUR



FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.36

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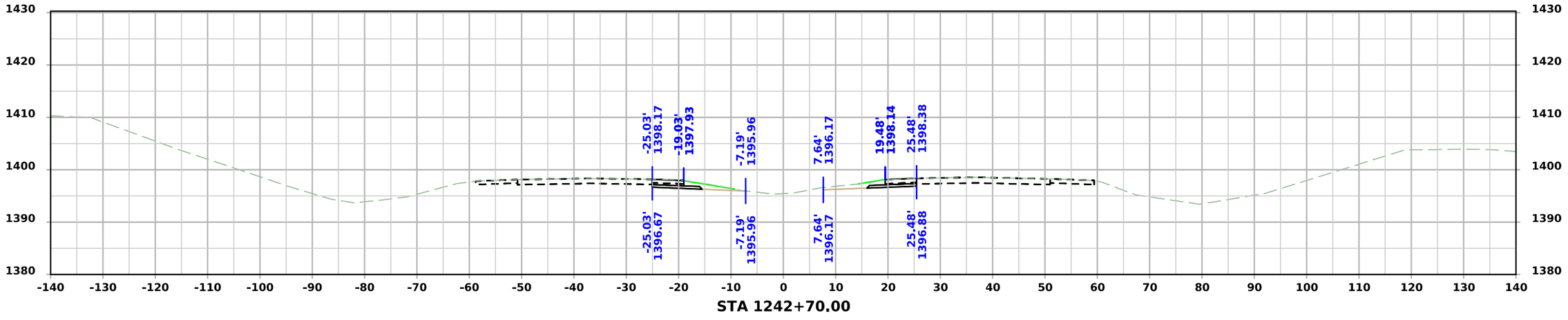
I-80 DETOUR



FILE NO. 32687	ENGLISH	DESIGN TEAM Strum/Janus	CASS COUNTY	PROJECT NUMBER IMX-080-2(277)72--02-15	SHEET NUMBER W.37

10:22:40 AM 12/3/2025 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1508002023\Design\CADD_Files\Sheet_Files\SHT_15080277_W03.dgn