LETTING DATE 1/20/2027

Bridge-Unspecified

BRF-038-3(063)--38-53

JONES COUNTY

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 2	Typical Cross Sections and Details
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 38
G Sheets	**Survey Sheets**
G.1 - 3	Reference Ties and Bench Marks
G.?	Horizontal Control Tab. & Super for all Alignments
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	511 Travel Restrictions
J.3	Coordinated Operations
* J.4	Detour Route
W Sheets	**Mainline Cross Sections**
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 6	Mainline Cross Sections
	* Color Plan Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

JONES COUNTY

Bridge-Unspecified

Sibles Creek 0.3 mi S
of Co Rd E53

SCALES: As Noted

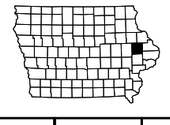
Refer to the Proposal Form for list of applicable specifications.

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

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

REVISIONS

TOTAL
18
PROJECT IDENTIFICATION NUMBER
22-53-038-030
PROJECT NUMBER
BRF-038-3(063)--38-53
R.O.W. PROJECT NUMBER



DESIGN DATA RURAL			
2027	AADT	1100	V.P.D.
2047	AADT	1100	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		22	%
Total Design ESALs		–	

INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Dung T. Ta	Primary Signature Block	X
X	X	X	X

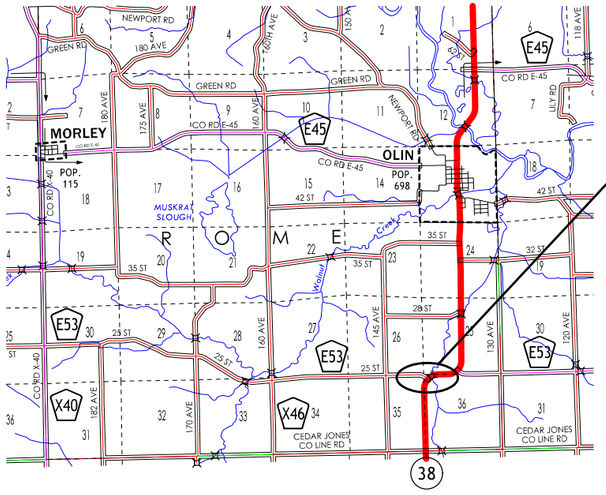
PRELIMINARY PLANS

Subject to change by final design.

D3 PLAN - Date: 8/2/2024

FILE NO. TBD	ENGLISH	DESIGN TEAM TA/TAP	JONES COUNTY	PROJECT NUMBER BRF-038-3(063)--38-53	SHEET NUMBER A.1

10:17:03 AM 8/2/2024 ctap pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\5303803022\Design\CADD_Files\Sheet_Files\53038063_A01.dgn



R-3W

PROJECT LOCATION
Sta. 267+15.00
Maint. #: 5340.1S038
FHWA #: 32290

LOCATION MAP SCALE
0 1 2 3
Miles

FILE NO. TBD	ENGLISH	DESIGN TEAM TA/TAP	JONES COUNTY	PROJECT NUMBER BRF-038-3(063)--38-53	SHEET NUMBER A.2

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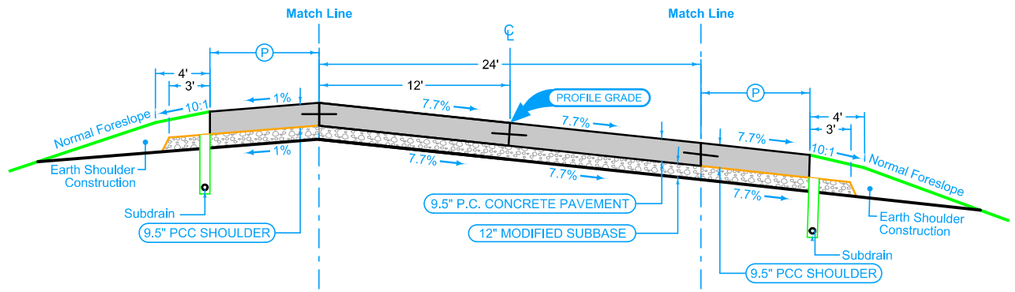
Full Depth PCC Shoulder

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

2_P_FullPCC_ 04-20-21		
STATION TO STATION		(P) Feet
266+27.53	268+02.93	10



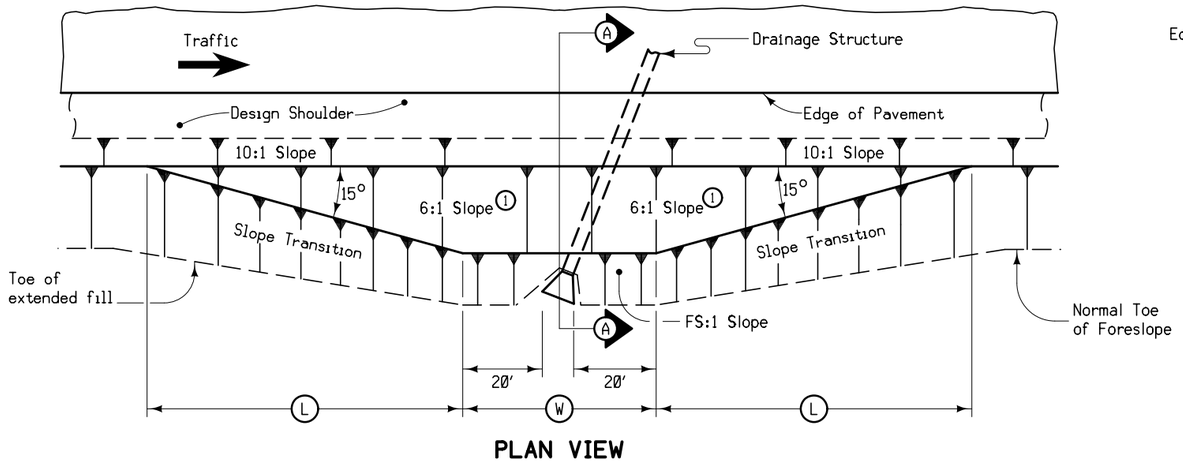
Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

2P_ 04-21-20	
STATION TO STATION	
266+27.53	268+02.93

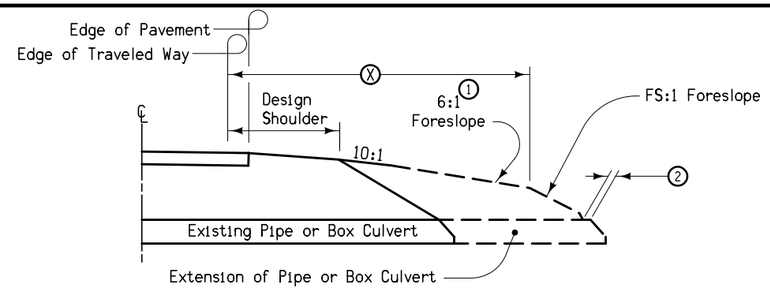
Full Depth PCC Shoulder

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

2_P_FullPCC_ 04-20-21		
STATION TO STATION		(P) Feet
266+27.53	268+02.93	10



PLAN VIEW



SECTION A-A

STRUCTURE LOCATION		(W)	(L)	(X)	(FS)
STATION (3)	SIDE	Feet	Feet	Feet	
267+23	RT	54	50	24	3
267+23	LT	54	50	24	3

DESIGNER INFO

4312
10-15-19

At locations where an extended or newly constructed drainage structure extends beyond the normal foreslope cover, flatten as indicated so as to cover the structure. Minimum earth cover is 6 inches.

(1) Slope may be flatter than 6:1.

(2) 6 inch minimum for pipe installations or to top of headwall on RCB.

(3) At ℄ of roadway.

(W) = Pipe or RCB opening width plus 20 feet each side.

BARNROOF FORESLOPE AT SKEWED DRAINAGE STRUCTURE

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

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO. TBD	ENGLISH	DESIGN TEAM TA/TAP	JONES COUNTY	PROJECT NUMBER BRF-038-3(063)--38-53	SHEET NUMBER D.1

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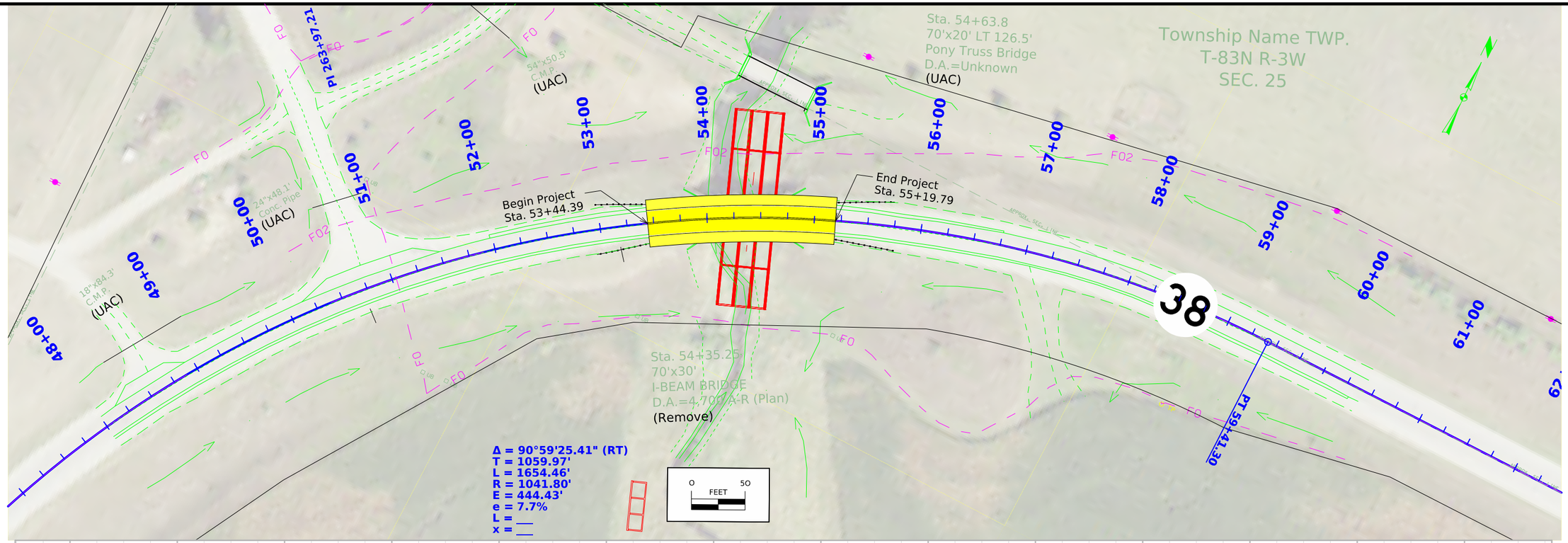

FILE NO.	ENGLISH	DESIGN TEAM			PROJECT NUMBER	SHEET NUMBER
TBD		TA/TAP	JONES COUNTY		BRF-038-3(063)--38-53	D.2

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SURVEY INDEX

County: Jones
PIN: 22-53-038-030
Project Number: BRF-038-3(063)--38-53
Location: IA 38 Bridge over Sibles Creek 0.3 mi S of Co Rd E53
Type of Work: Bridge Replacement
Project Directory: 5303803022

Survey Personnel

Myron Fox – Survey Party Chief
Sam Schilb – Assistant Survey Party Chief

Date(s) of Survey

Begin Date	04/16/2024
End Date	05/15/2024

General Information

This survey is for a Bridge Replacement over Sibles Creek 0.3 mi S of Co. Rd. E53. This survey request was for the US Hwy 38 corridor only. This project is a Full Field DTM survey.

Utility Information

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

Project Control

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

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 10 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The alignment for this project was provided by the District 6 Land Survey Office.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.

HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 10 (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 10 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code Description
600227	8044472.65	20640059.17	795.12	CP SCR E 1/4 SEC 35-T83N-R3W FND AS DESCRIBED
600437	8052455.62	20642703.67	772.53	CP SCR N 1/4 COR SEC 25-T83N FND AS DESCRIBED
300	8047219.20	20642464.40	818.32	CP SET 5/8th" x 42" rebar from the intersection of Hwy 38 and Co Rd E53 proceed SE 168' point is 75' SW of CL Co Rd E53 4" below surface

108_23A
8/15/22

TRAFFIC CONTROL PLAN

Traffic on IA 38 shall be maintained at all times during construction through the use of an offsite detour as shown in the following J sheets.

511 TRAVEL RESTRICTIONS

Line No.	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
1.0	IA 38	Both	Jones	IA 38 over Sibles Creek		Traffic Control Device	32290	Road Closure					

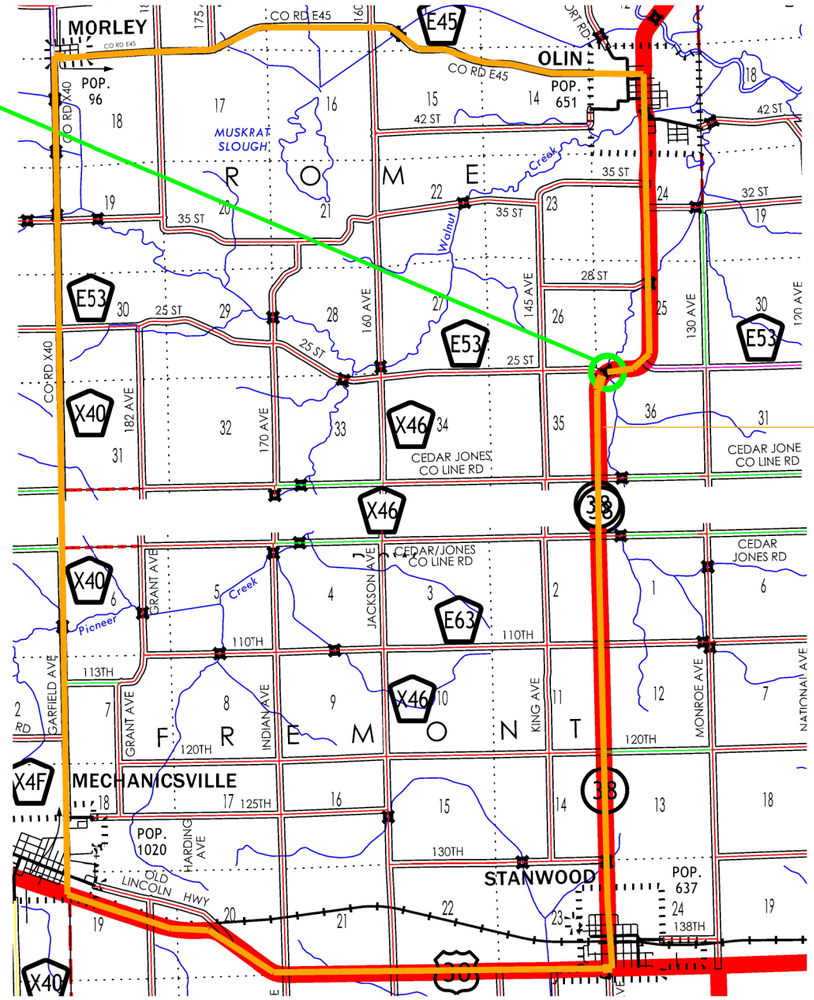
COORDINATED OPERATIONS

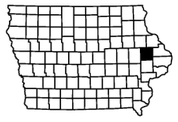
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
None Provided	

STA 267+15.00
FHWA 32290
MAINT. NO. 5340.1S038
DESIGN 101

JONES COUNTY





OVER SIBLES CREEK ON IA 38, 0.3 MI S OF CO RD E53
BRF-038-3(063)—38-53
PROJECT CODE: 22-53-038-030

53

FILE NO. TBD	ENGLISH	DESIGN TEAM TA/TAP	JONES COUNTY	PROJECT NUMBER BRF-038-3(063)--38-53	SHEET NUMBER J.4

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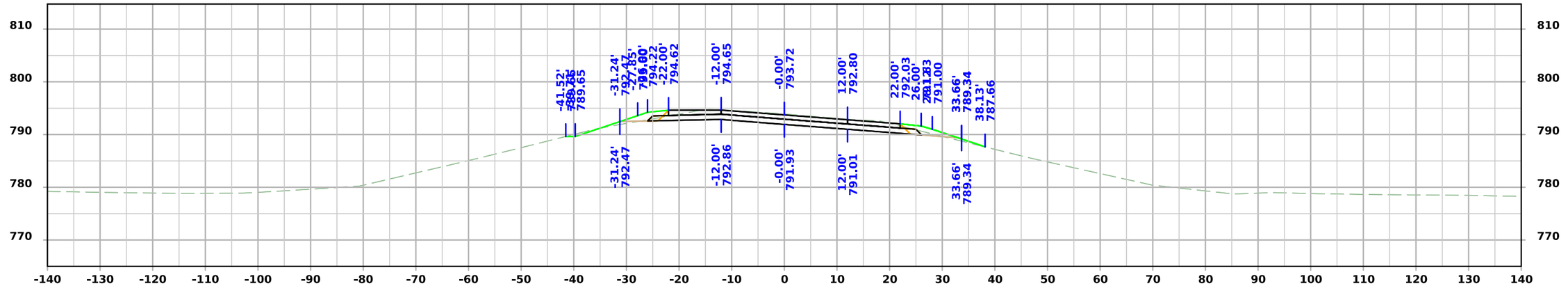
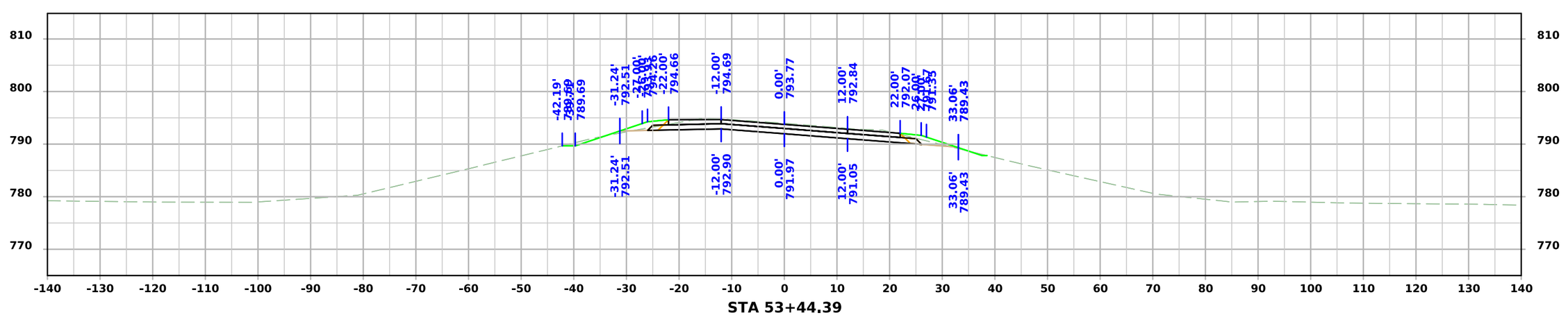
IA 038



STA 53+50.00



STA 53+44.39

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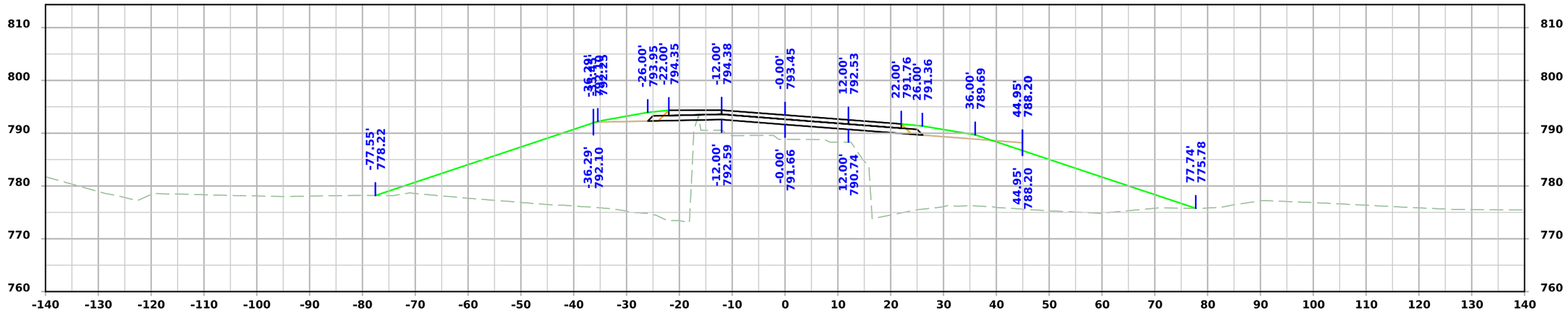
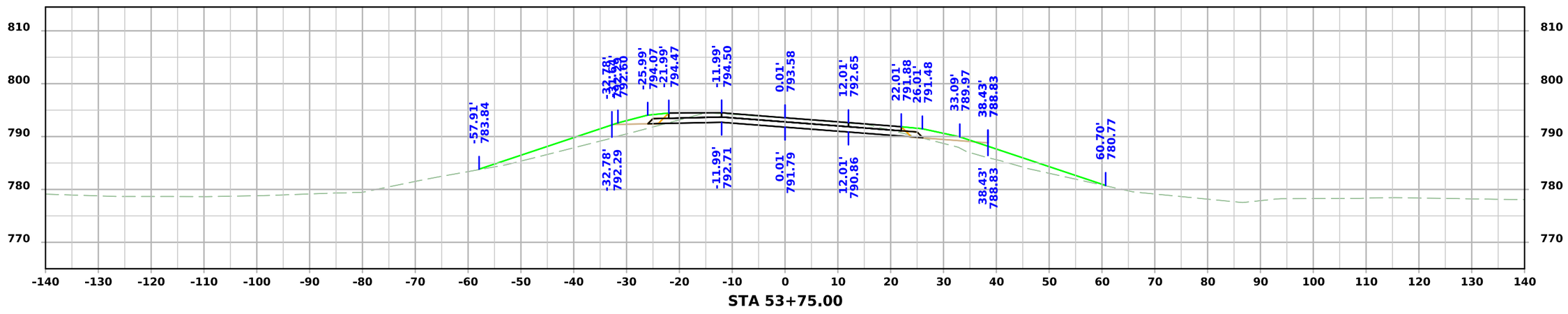
IA 038





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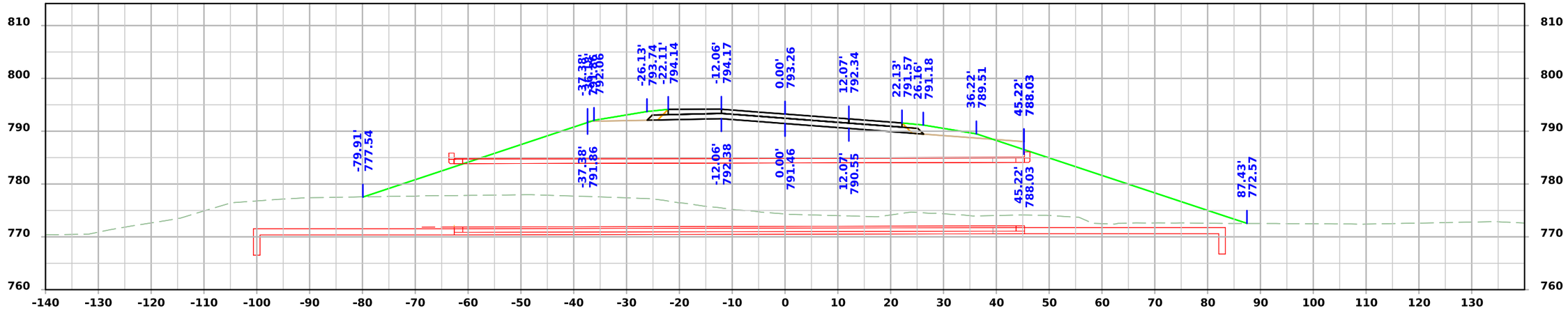
IA 038

Skewed with Culvert



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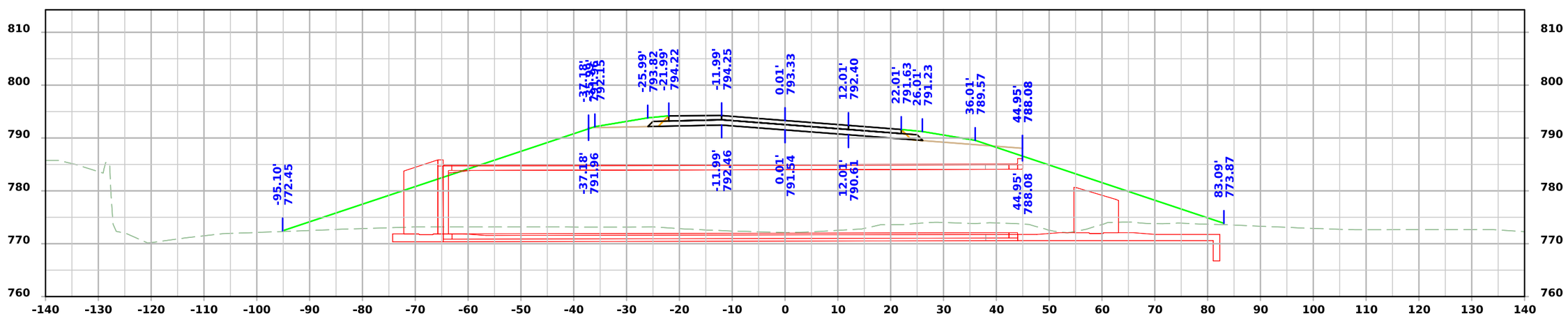

STA 54+25.00

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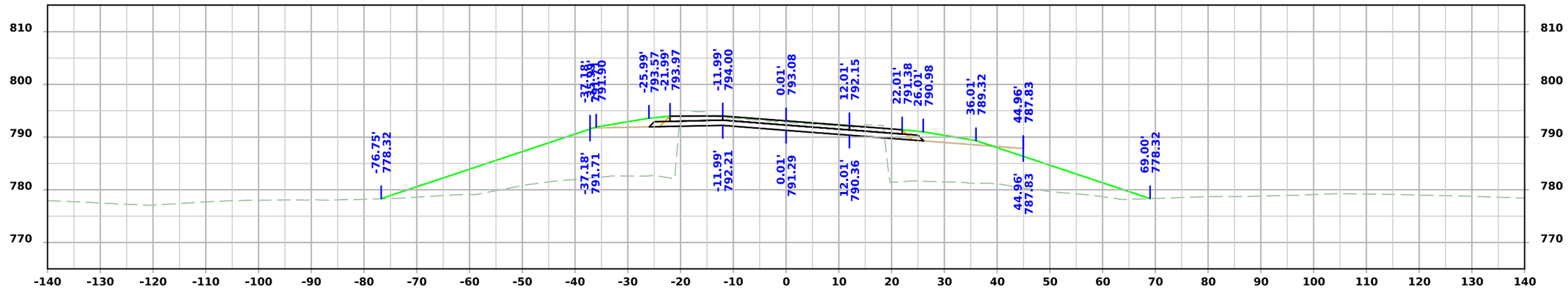
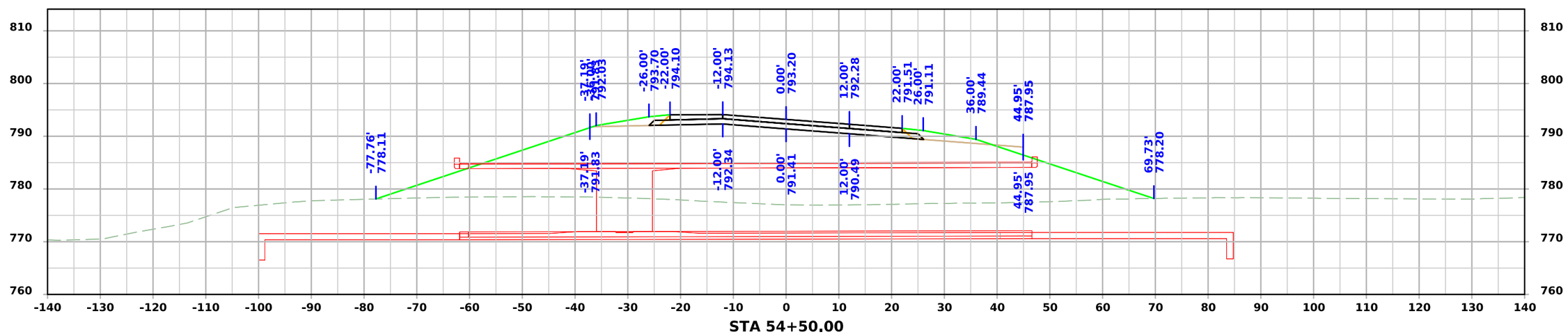


STA 54+75.00



STA 54+50.00

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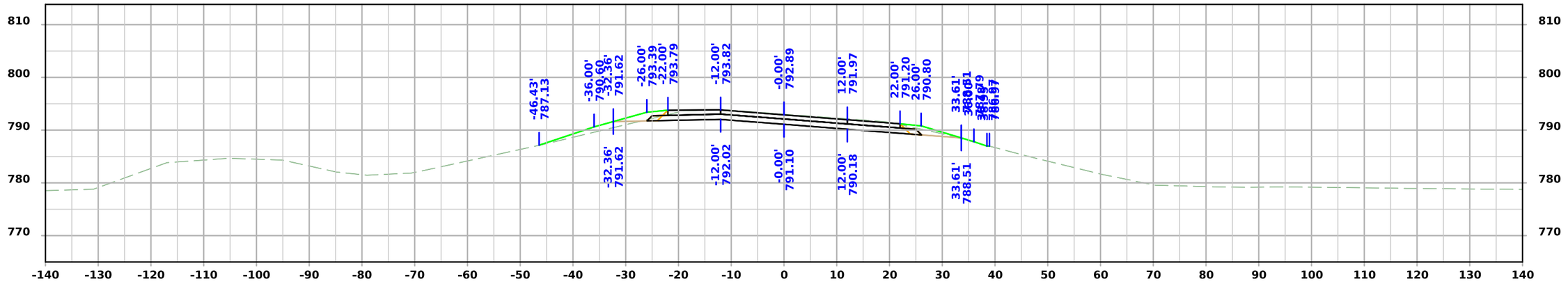
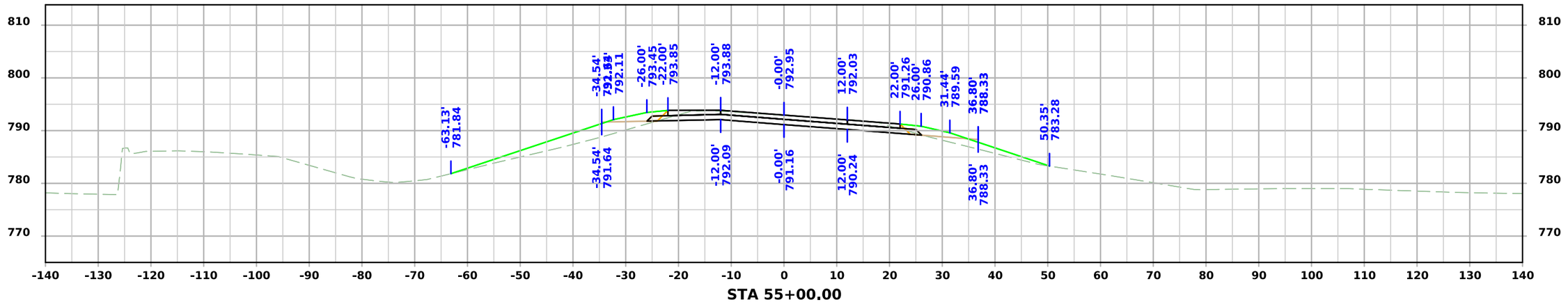
IA 038



STA 55+19.83



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