

| 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 |
| C Sheets | Quantities and General Information |
| C.1 | Access Points and Safety Ramps |
| D Sheets | Mainline Plan and Profile Sheets |
| D.1 | Plan & Profile Legend & Symbol Information Sheet |
| D.2 | Mainline IA 22 |
| G Sheets | Survey Sheets |
| G.1 | Survey Index |
| G.2 | Control Point Vacinity Map |
| G.3 | Horizontal and Vertical Project Control Coordinates |
| J Sheets | Traffic Control and Staging Sheets |
| J.1 | Traffic Control Plan |
| J.2 | IA 22 Detour Route |
| V Sheets | Bridge and Culvert Situation Plans |
| V.1 - 2 | Bridge and Culvert Situation Plans |
| W Sheets | Mainline Cross Sections |
| W.1 | Cross Sections Legend & Symbol Information Sheet |
| W.2 - 7 | Mainline Cross Sections |
| X Sheets | Side Road Cross Sections |
| X.1 | Mainline Entrances |



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
Muscatine COUNTY
 Culvert Replacement - Triple Box RCB
 IA 21 Bridge over Stream
 0.2 mi E of Co Rd Y36

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



REVISIONS

TOTAL

22

PROJECT IDENTIFICATION NUMBER

23-70-022-020

PROJECT NUMBER

BRF-022-4(081)--38-70

R.O.W. PROJECT NUMBER

| DESIGN DATA RURAL | | | |
|-------------------|--------------|------|----------|
| 2027 | AADT | 1450 | V.P.D. |
| 2047 | AADT | 1750 | V.P.D. |
| 20 | - DHV | - | - V.P.H. |
| | TRUCKS | 26 | % |
| | Total | | |
| | Design ESALs | - | |

| INDEX OF SEALS | | | |
|----------------|------|-------------------------|---------------------|
| SHEET NO. | NAME | TYPE | BID QUANTITY SHEETS |
| A.1 | X | Primary Signature Block | X |
| X | X | X | X |
| | | | |
| | | | |
| | | | |

PRELIMINARY PLANS

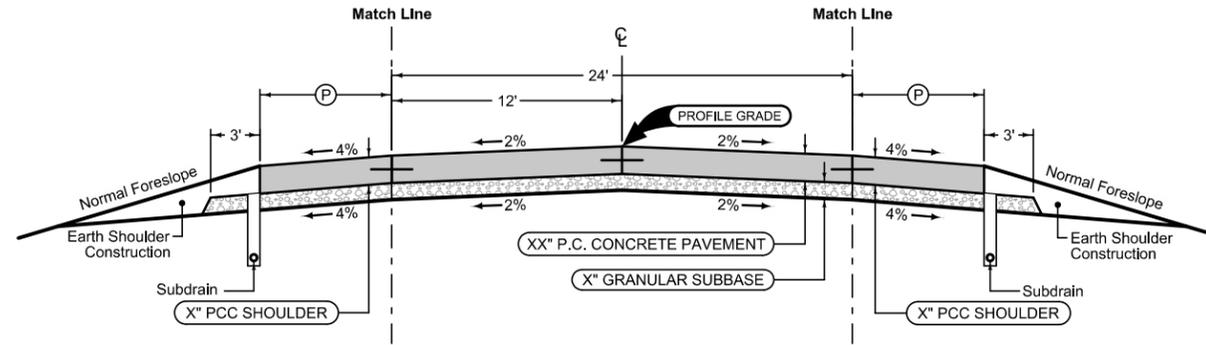
Subject to change by final design.

D5 PLAN - Date: 12/19/25

Full Depth PCC Shoulder

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

| | | |
|----------------------|------------|-------------|
| 2_P_FullPCC_04-15-25 | | |
| STATION TO STATION | | (P) Feet |
| 5649+79.10 | 5652+96.77 | 4 |
| | | |
| | | |



Full Depth PCC Shoulder

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

| | | |
|----------------------|------------|-------------|
| 2_P_FullPCC_04-15-25 | | |
| STATION TO STATION | | (P) Feet |
| 5649+79.10 | 5652+96.77 | 4 |
| | | |
| | | |

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

| | | |
|--------------------|------------|--|
| 2P_04-21-20 | | |
| STATION TO STATION | | |
| 5649+79.10 | 5652+96.77 | |
| | | |
| | | |

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.

- (1) Refer to MI-210.
- (2) Refer to EW-501.
- (3) Refer to EW-501 or EW-502.

*Predetermined for access point not constructed with this project.

| Station | Side | Access Type | Descriptor | Case | Curb Type | Curb Length (1) (LF) | Width (FT) | PR (1) (2) (FT) | SR (2) (FT) | Pipe Culvert (H) (3) (FT) | Pipe Culvert Size (3) (IN) | Culvert Length (3) (LF) | Pipe Culvert Lt. (3) (LF) | Pipe Culvert Rt. (3) (LF) | Culvert Aprons (3) (No.) | Driveway Surface Type | Driveway Surface Area (SY) | Driveway Surfacing Material (TON) | Remarks |
|------------|------|-------------|------------|------|-----------|----------------------|------------|-----------------|-------------|---------------------------|----------------------------|-------------------------|---------------------------|---------------------------|--------------------------|-----------------------|----------------------------|-----------------------------------|---------|
| 5650+70.00 | Left | C | | 1 | | | 20.0 | | 15.0 | 1.6 | 18.0 | 60.9 | 25.20 | 35.70 | 2 | Granular | | 11.470 | |

SURVEY SYMBOLS

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

UTILITY LEGEND

- E1** *EL1D, Eastern Iowa Light & Power - Quality D*
- Chad Ruden
Member Service Lead Staking
Eastern Iowa Light and Power Cooperative Electric Distribution
chad.ruden@easterniowa.com
563-529-3727
- PPA** *PPA, Eastern Iowa Light & Power*
- Chad Ruden
Member Service Lead Staking
Eastern Iowa Light and Power Cooperative Electric Distribution
chad.ruden@easterniowa.com
563-529-3727
- G** *GL1D, MidAmerican - Quality D*
- Matt Novy
Customer Project Coordinator
MidAmerican Energy Company Gas Distribution
matthew.novy@midamerican.com
515-901-8274
- F0** *FO1D, CenturyLink - Quality D*
- Steve Parker
Manager of Engineering & Construction
Lumen CenturyLink Fiber Distribution
Steven.Parker4@lumen.com
507-358-1978
- T1** *TL1D, CenturyLink - Quality D*
- Steve Parker
Manager of Engineering & Construction
Lumen CenturyLink Fiber Distribution
Steven.Parker4@lumen.com
507-358-1978

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 |

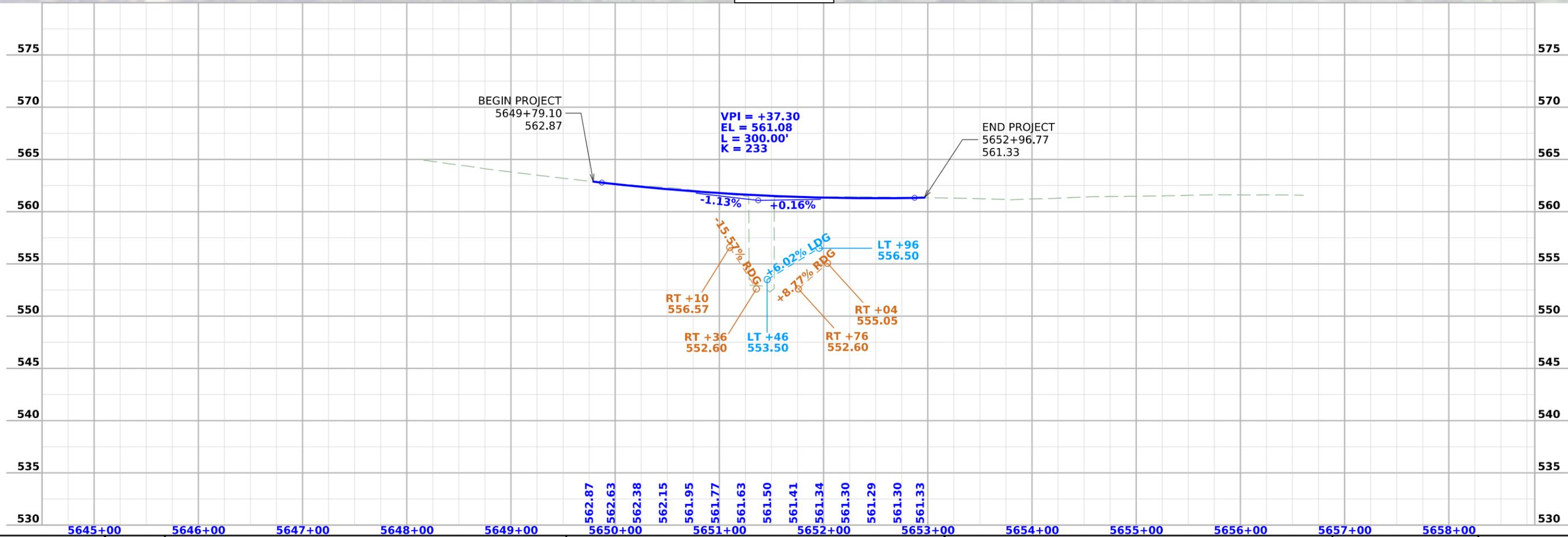
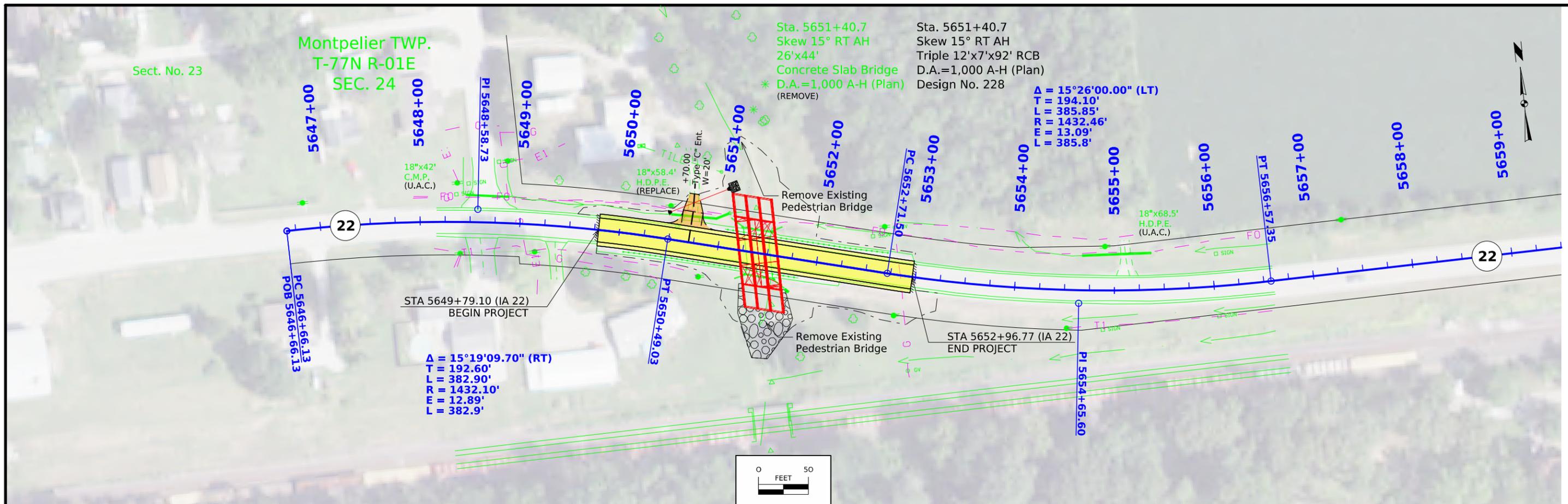
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

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)



Survey Information

SURVEY INDEX

County: Muscatine
Project Code: 23-70-022-020
Phase Number: BRF-022-4(081)--38-70
Location: Stream 0.2 mi E of Co Rd Y36
Type of Work: Bridge-Unspecified
Project Directory: 7002202023

Survey Personnel

Sam Schilb – Survey Party Chief

Date(s) of Survey

Begin Date 12/19/2024
End Date 02/10/2025

General Information

This survey is for a US Hwy 22 bridge replacement 0.2 mi east of Co Rd Y36. This survey request was for the US Hwy 22 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 14
(U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

Alignment for this project was provided by the District 5 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 14 (U.S. Survey Foot)

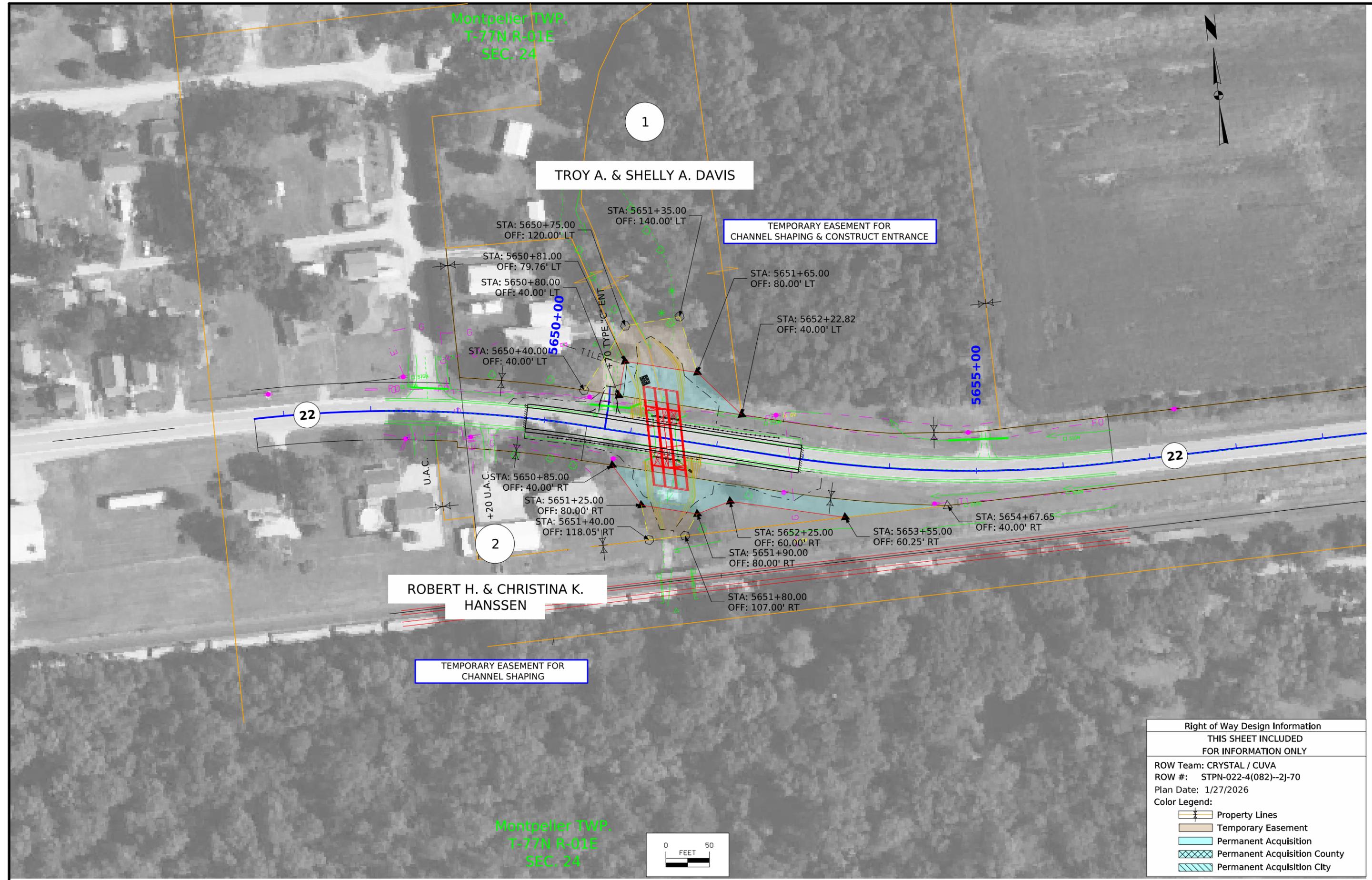
VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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

| Point Name | Northing | Easting | Elevation | Code Description |
|------------|------------|-------------|-----------|--|
| 301 | 6640760.47 | 24623797.22 | 556.82 | CP Set IDOT FENO Monument 4" Below Surface |
| 300 | 6642865.66 | 24621478.83 | 660.08 | CP Set IDOT FENO Monument 4" Below Surface |
| 127 | 6640707.88 | 24627042.41 | 555.60 | CP Fnd Muscatine County FENO Monument in Aluminum Canister |

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



Montpelier TWP.
T-77N R-01E
SEC. 24

1

TROY A. & SHELLY A. DAVIS

TEMPORARY EASEMENT FOR
CHANNEL SHAPING & CONSTRUCT ENTRANCE

STA: 5650+75.00
OFF: 120.00' LT

STA: 5651+35.00
OFF: 140.00' LT

STA: 5650+81.00
OFF: 79.76' LT

STA: 5650+80.00
OFF: 40.00' LT

STA: 5651+65.00
OFF: 80.00' LT

STA: 5652+22.82
OFF: 40.00' LT

STA: 5650+40.00
OFF: 40.00' LT

22

U.A.C.

STA: 5650+85.00
OFF: 40.00' RT

STA: 5651+25.00
OFF: 80.00' RT

STA: 5651+40.00
OFF: 118.05' RT

STA: 5652+25.00
OFF: 60.00' RT

STA: 5651+90.00
OFF: 80.00' RT

STA: 5653+55.00
OFF: 60.25' RT

STA: 5654+67.65
OFF: 40.00' RT

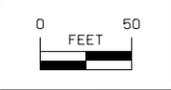
2

ROBERT H. & CHRISTINA K.
HANSSEN

TEMPORARY EASEMENT FOR
CHANNEL SHAPING

STA: 5651+80.00
OFF: 107.00' RT

Montpelier TWP.
T-77N R-01E
SEC. 24



| Right of Way Design Information | |
|--|------------------------------|
| THIS SHEET INCLUDED FOR INFORMATION ONLY | |
| ROW Team: CRYSTAL / CUVA | |
| ROW #: STPN-022-4(082)--2]-70 | |
| Plan Date: 1/27/2026 | |
| Color Legend: | |
| | Property Lines |
| | Temporary Easement |
| | Permanent Acquisition |
| | Permanent Acquisition County |
| | Permanent Acquisition City |

TRAFFIC CONTROL PLAN

108_23A
8/15/22

IA 22 will be closed during construction. A detour route will be utilized. Refer to J sheets for more information.

Muscatine County

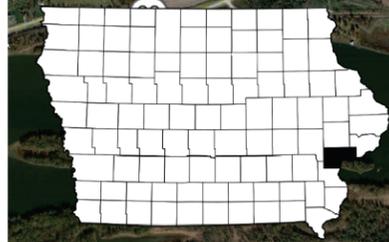
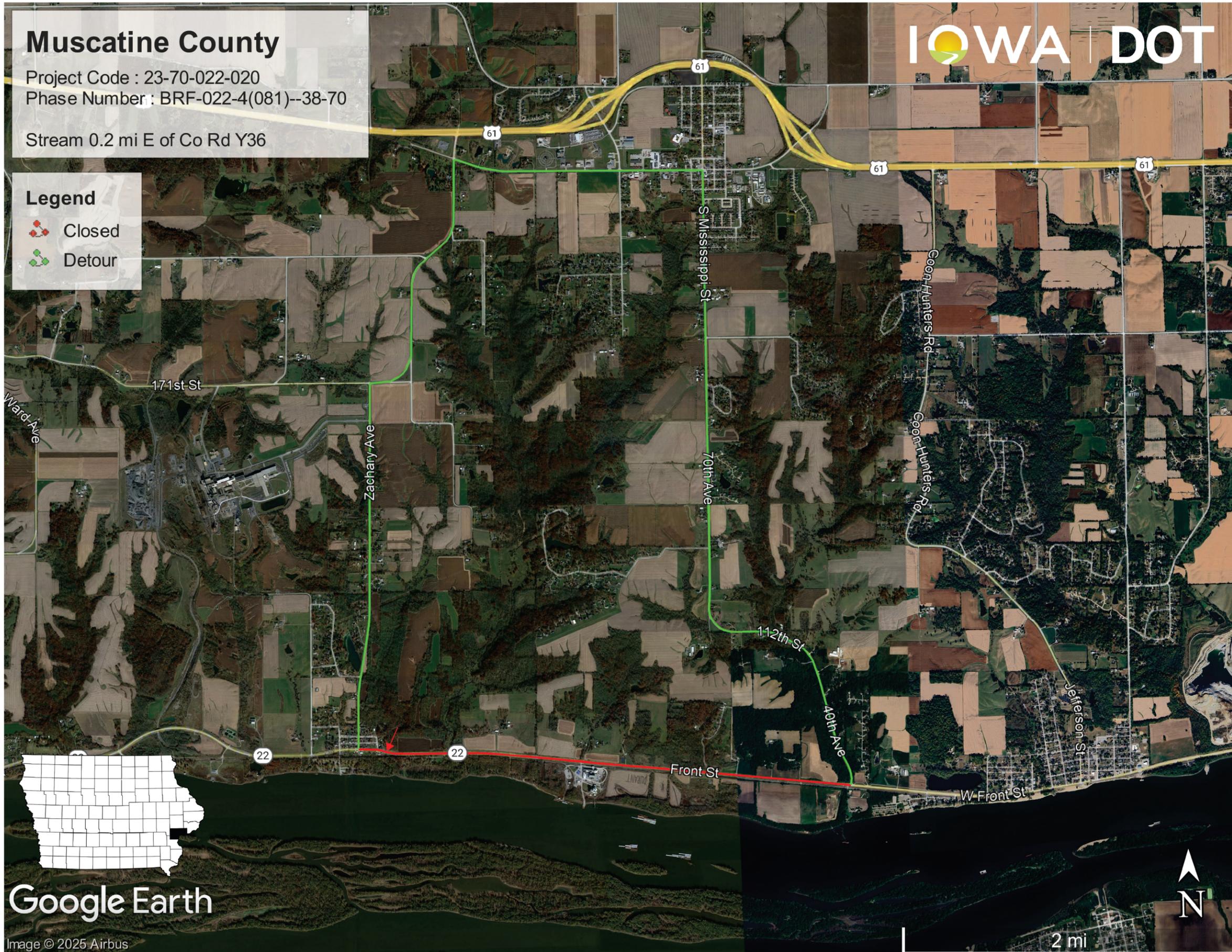
Project Code : 23-70-022-020
Phase Number : BRF-022-4(081)--38-70

Stream 0.2 mi E of Co Rd Y36



Legend

- Closed
- Detour



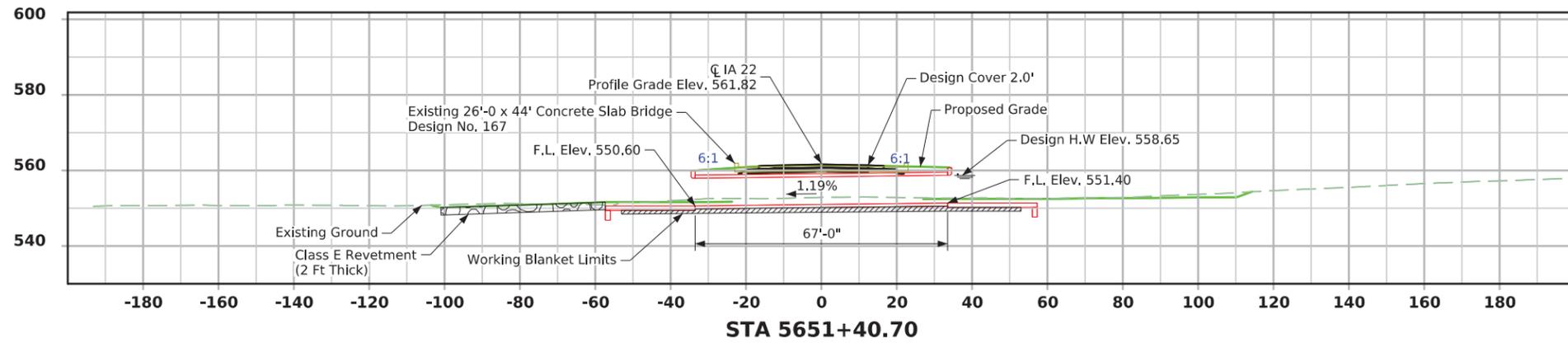
Google Earth

Image © 2025 Airbus



2 mi

Control Point: 127,CP Fnd Muscatine County FENO Monument in Aluminum Canister Elev. 555.60, N. 6640707.87, E. 24627042.40



Longitudinal Section Along Centerline of Culvert

General Notes:

This design is for the replacement of an existing 26'-0 x 44' Concrete Slab Bridge, Muscatine Design No. 167, FHWA No. 38130, Maint. No. 7086.3S022

Design Notes:

1. Design fill for this C.I.P. Culvert is 2.0'
2. Anticipated Settlement is negligible.
3. Permanent acquisition is required.
4. Density used for Class E quantity calculations is 1.5 Tons/CY.
5. Revetment is proposed at the culvert outlet due to high stream velocities.

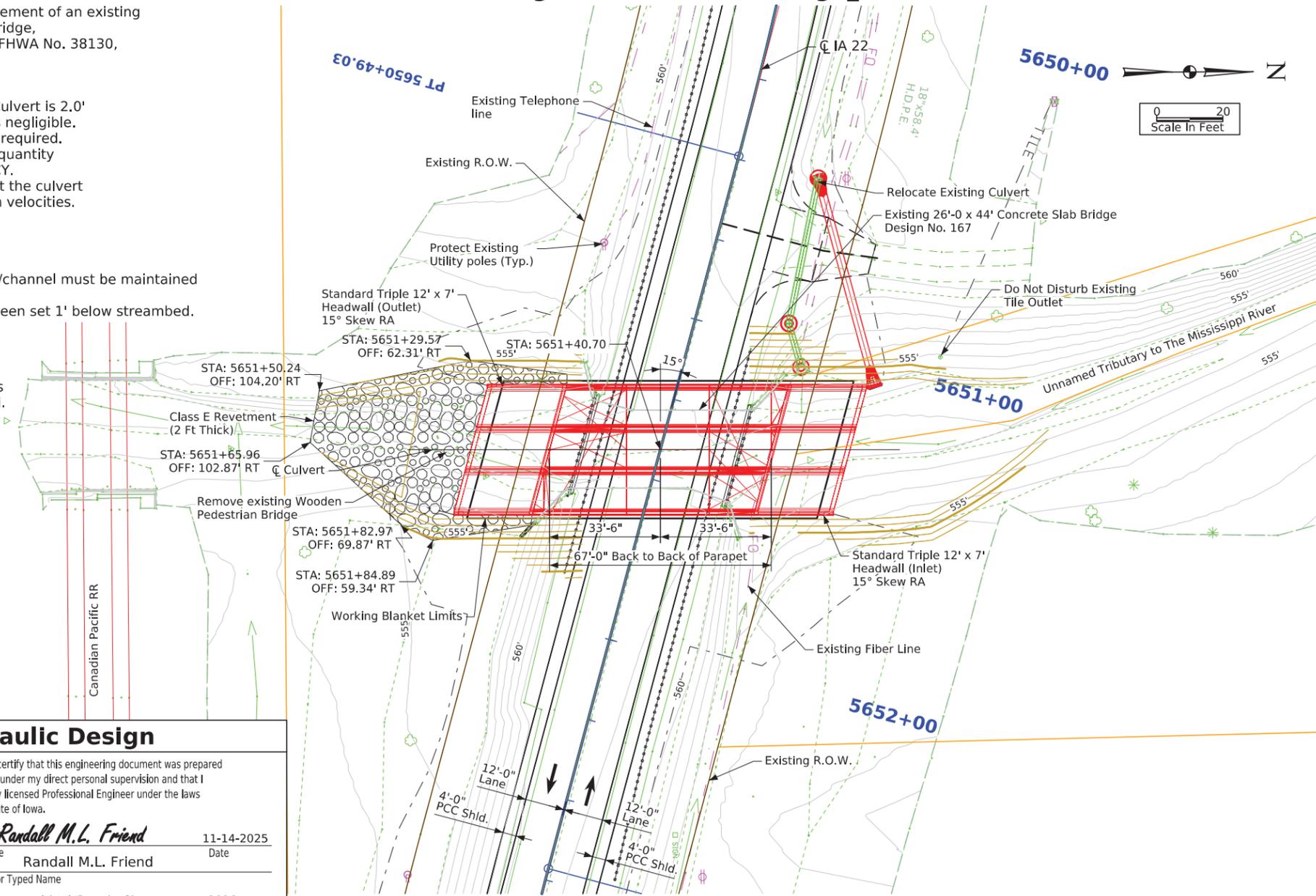
Plan Notes:

1. Drainage through culvert/channel must be maintained throughout construction.
2. Flow Line of culvert has been set 1' below streambed.

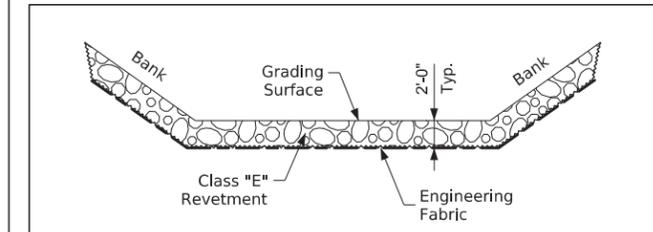
Hydraulic Data

RIDB: Not Applicable
 Drainage Area = 1088 Acres
 Stream Slope = 83.03 Ft./Mi.
 $Q_{50} = 1,374$ cfs
 HW Elev. = 558.65
 Exit Velocity = 7.72 fps

 $Q_{100} = 1,684$ cfs
 HW Elev. = 559.52
 Exit Velocity = 7.85 fps



Situation Plan

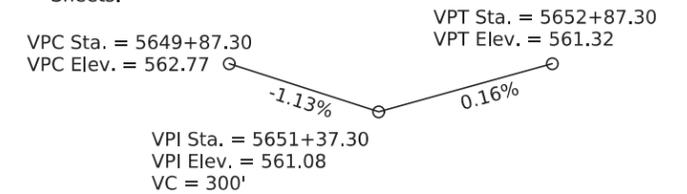


Typical Channel Protection

Estimated Revetment Quantities Included With Road Plans

| Location | Revetment Class "E" (Ton) | Engineering Fabric (SY) | CL. 13 Channel Excavation (CY) |
|----------|---------------------------|-------------------------|--------------------------------|
| Inlet | | | |
| Outlet | 257 | 257 | 171 |
| Totals | 257 | 257 | 171 |

Excavation quantity calculated from grading surface. Excavation quantity is for embedded revetment core out only, and does not include excavation to the grading surface. Excavation quantity to the grading surface is determined by Road Design and included in the Road Plans. Quantities shown for information only. See Road Sheets.



Proposed Profile Grade IA 22

Location

IA 22 over Unnamed Tributary to the Mississippi River
 T-77N R-1E
 Section 24
 Montpelier Township
 Muscatine County
 FHWA No. 38131
 Bridge Maint. No. 7086.3S022
 Latitude 41.45894°
 Longitude -90.80363°

Traffic Estimate

| | |
|-----------|-------------|
| 2028 AADT | 1800 V.P.D. |
| 2048 AADT | 1900 V.P.D. |
| TRUCKS | 13 % |

Utilities Note:

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

General Utility Symbols:

- E - Electric Line
- G - Gas Line
- SAN. - Sanitary Sewer
- T - Telephone Line
- W - Water Line
- FO - Fiber Optic Line
- GHP - Gas High Pressure
- ST S - Storm Sewer
- TV - TV
- - Power Poles

Hydraulic Design

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Randall M.L. Friend 11-14-2025
 Signature Date
 Randall M.L. Friend
 Printed or Typed Name
 My license renewal date is December 31, 2026



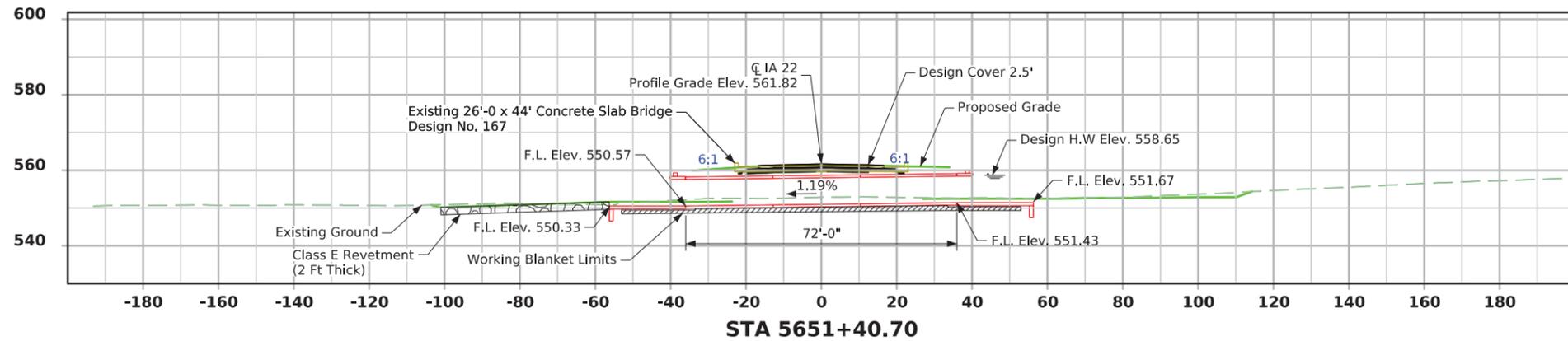
Pages or sheets covered by this seal:
 V.1 and V.2

P28452

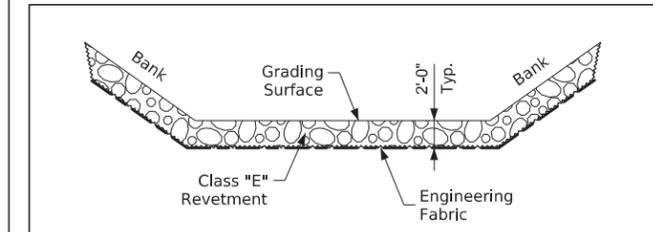
Design For 15° Skew RA
Triple 12'-0" x 7'-0" x 67'-0"
Reinforced Concrete Box Culvert

Situation Plan C.I.P.
 STA. 5651+40.70 (IA 22) Turn-In Date: October 2025
Muscatine County
 IOWA DEPARTMENT OF TRANSPORTATION
 Design No. 0228 Design Sheet No. 1 of 2 FHWA/Asset 38131

Control Point: 127,CP Fnd Muscatine County FENO Monument in Aluminum Canister Elev. 555.60, N. 6640707.87, E. 24627042.40



Longitudinal Section Along Centerline of Culvert

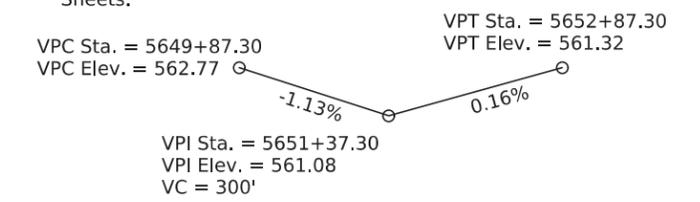


Typical Channel Protection

Estimated Revetment Quantities Included With Road Plans

| Location | Revetment Class "E" (Ton) | Engineering Fabric (SY) | CL. 13 Channel Excavation (CY) |
|----------|---------------------------|-------------------------|--------------------------------|
| Inlet | | | |
| Outlet | 279 | 279 | 186 |
| Totals | 279 | 279 | 186 |

Excavation quantity calculated from grading surface. Excavation quantity is for embedded revetment core out only, and does not include excavation to the grading surface. Excavation quantity to the grading surface is determined by Road Design and included in the Road Plans. Quantities shown for information only. See Road Sheets.



Proposed Profile Grade IA 22

General Notes:

This design is for the replacement of an existing 26'-0" x 44' Concrete Slab Bridge, Muscatine Design No. 167, FHWA No. 38130, Maint. No. 7086.3S022

Design Notes:

1. Design fill for this P.C. Culvert is 2.5'
2. Anticipated Settlement is negligible.
3. Permanent acquisition is required.
4. Density used for Class E quantity calculations is 1.5 Tons/CY.
5. Revetment is proposed at the culvert outlet due to high stream velocities

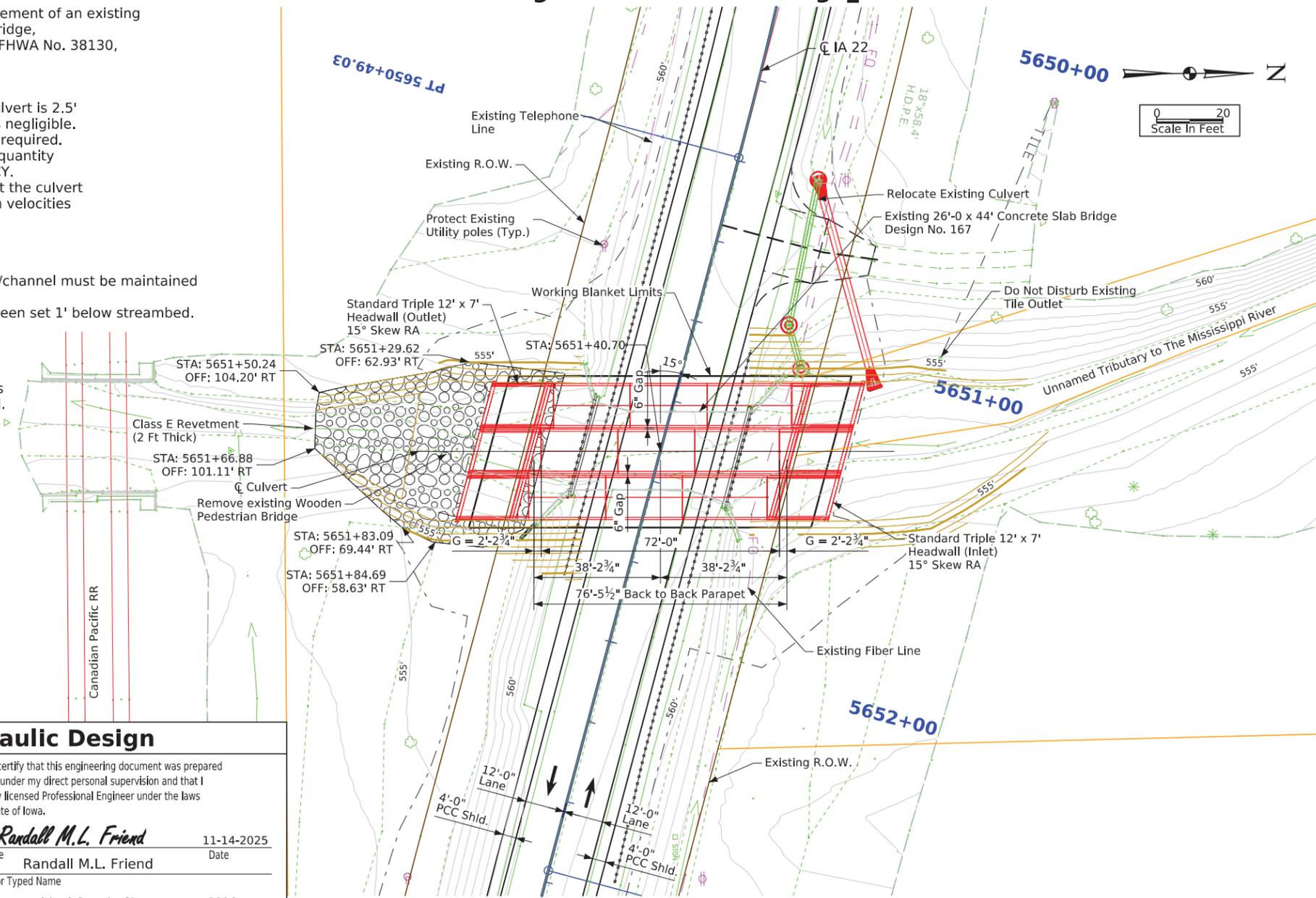
Plan Notes:

1. Drainage through culvert/channel must be maintained throughout construction.
2. Flow Line of culvert has been set 1' below streambed.

Hydraulic Data

RIDB: Not Applicable
 Drainage Area = 1088 Acres
 Stream Slope = 83.03 Ft./Mi.
 $Q_{50} = 1,374$ cfs
 HW Elev. = 558.65
 Exit Velocity = 7.72 fps

 $Q_{100} = 1,684$ cfs
 HW Elev. = 559.52
 Exit Velocity = 7.85 fps



Situation Plan

Location

IA 22 over Unnamed Tributary to the Mississippi River
 T-77N R-1E
 Section 24
 Montpelier Township
 Muscatine County
 FHWA No. 38131
 Bridge Maint. No. 7086.3S022
 Latitude 41.45894°
 Longitude -90.80363°

Traffic Estimate

| | |
|-----------|-------------|
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| 2048 AADT | 1900 V.P.D. |
| TRUCKS | 13 % |

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- T - Telephone Line
- W - Water Line
- FO - Fiber Optic Line
- GHP - Gas High Pressure
- ST S - Storm Sewer
- TV - TV
- - Power Poles

Hydraulic Design

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Randall M.L. Friend 11-14-2025
 Signature Date
 Printed or Typed Name
 My license renewal date is December 31, 2026



Pages or sheets covered by this seal:
 V.1 and V.2

P28452

Design For 15° Skew RA
Triple 12'-0" x 7'-0" x 76'-5 1/2"
Reinforced Concrete Box Culvert
 Situation Plan P.C.
 STA. 5651+40.71 (IA 22) Turn-In Date: October 2025
Muscatine County
 IOWA DEPARTMENT OF TRANSPORTATION
 Design No. 0228 Design Sheet No. 2 of 2 FHWA/Asset 38131

CROSS SECTION VIEW COLOR LEGEND

| Design Color No. | Feature | Design Color No. | Feature |
|-------------------|---------------------------------|---------------------------|--------------------------------------|
| Aggregate | | | |
| (64) | Choke Stone | (8) | Behind Curb Cut |
| (42) | Engineering Fabric | (6) | Granular |
| (8) | Flooded Backfill | (13) | Granular Back Fill |
| (92) | Macadam Stone | (48) | Rock Undercut |
| (20) | Modified | (8) | Shoulder Earth Fill |
| (12) | Plowing Shaping | (2) | Side Slopes |
| (14) | Porous Backfill | (226) | Side Slopes Dressing |
| (8) | Revetment Class A | Substrata | |
| (6) | Revetment Class B | (128) | Boulder |
| (62) | Revetment Class C | (209) | Boulder Removed |
| (188) | Revetment Class D | (48) | Broken Weathered |
| (28) | Revetment Class E | (210) | Broken Weathered Removed |
| (12) | Shoulder Special Backfill | (3) | Core Out |
| (12) | Special Backfill | (115) | Core Out Remove Only |
| (20) | Subbase | (195) | Core Out Remove and Replace |
| (20) | Subbase Lower | (203) | Existing Pavement |
| (20) | Subbase Upper | (184) | Existing Pavement Remove Only |
| (118) | Subgrade Treatment | (200) | Existing Pavement Remove and Replace |
| Asphalt | | | |
| (207) | HMA Base Course | (6) | Loam |
| (207) | HMA Interim Course | (211) | Loam Removed |
| (207) | HMA Surface Course | (80) | Rock |
| Bridge | | | |
| (0) | Bridge | (212) | Rock Removed |
| Concrete | | | |
| (0) | Barrier Concrete | (4) | Select Sand |
| (0) | Barrier Concrete Footing | (214) | Select Sand Removed |
| (0) | Curb Gutter | (3) | Shale |
| (48) | Flowable Mortar | (215) | Shale Removed |
| (0) | Median Concrete | (10) | Topsoil |
| (0) | PCC Pavement | (2) | Topsoil Remove Only |
| (0) | Sidewalk | (4) | Topsoil Remove and Replace |
| Existing | | | |
| (0) | Existing Pavement | Unsuitable / Waste | |
| Shoulder | | | |
| (209) | Shoulder HMA | (3) | Unsuitable Type A |
| (0) | Shoulder PCC | (216) | Unsuitable Type A Removed |
| (6) | Shoulder Granular | (13) | Unsuitable Type B |
| Structural | | | |
| (112) | Noise Wall | (217) | Unsuitable Type B Removed |
| (112) | Noise Wall Footing | (11) | Unsuitable Type C |
| (112) | Retaining Wall Back | (218) | Unsuitable Type C Removed |
| (112) | Retaining Wall Back Excavate | (3) | Waste |
| (112) | Retaining Wall Face | (219) | Waste Removed |
| (112) | Retaining Wall Front Excavate | | |
| (112) | Retaining Wall Front Footing | | |
| (112) | Retaining Wall MSE Gutter | | |
| (112) | Retaining Wall Reinforced Earth | | |

NOTES:

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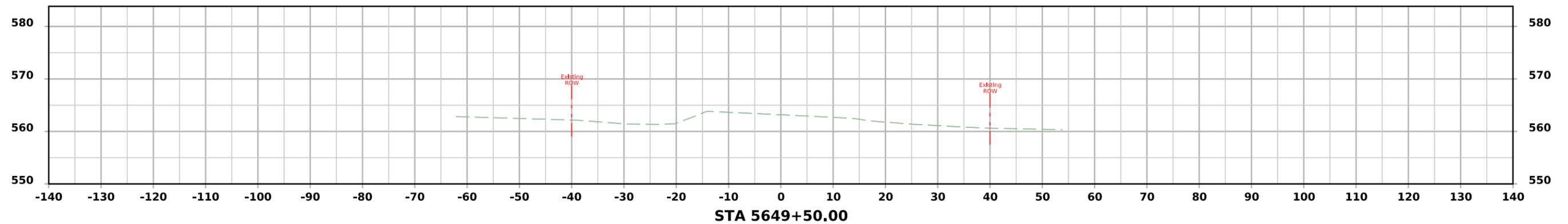
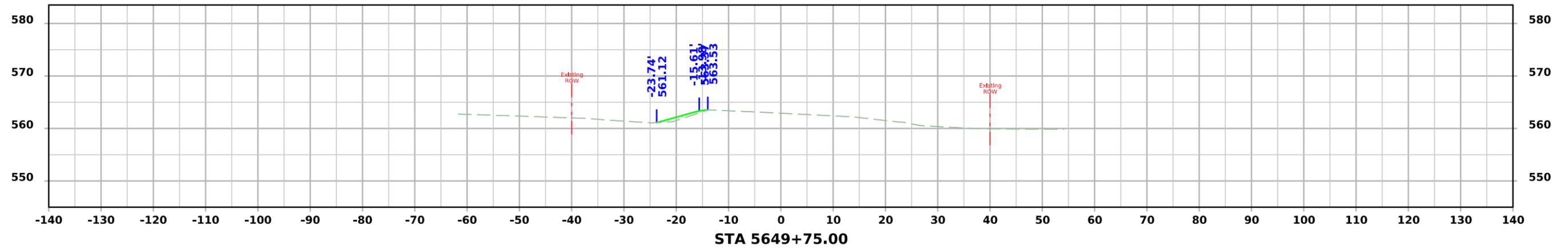
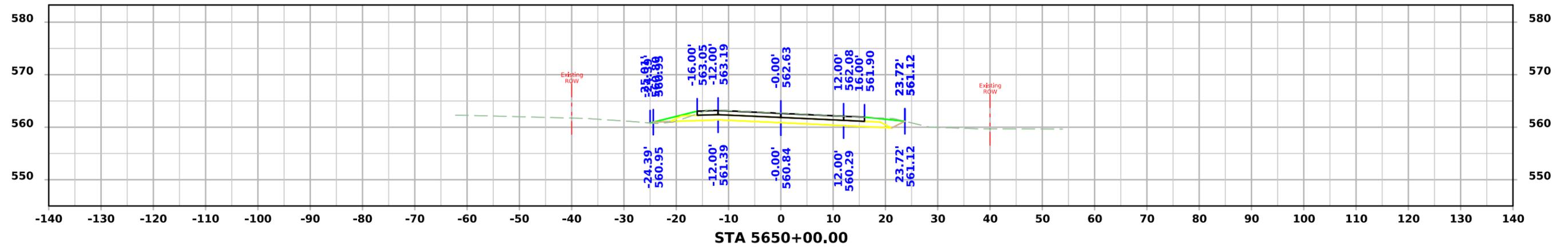
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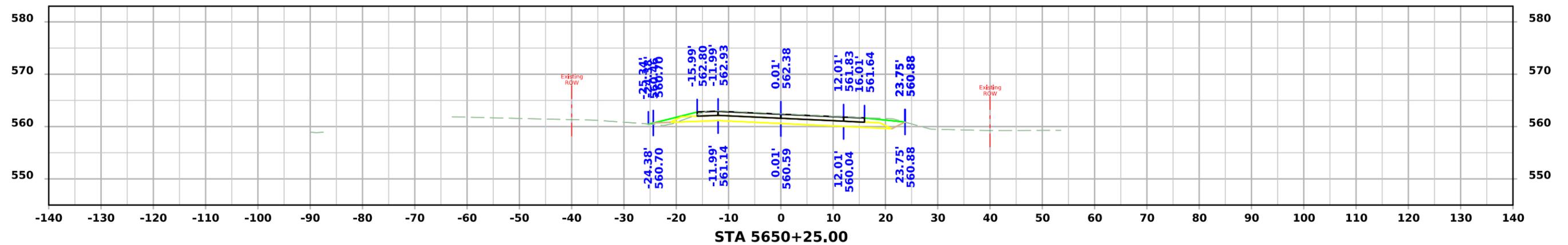
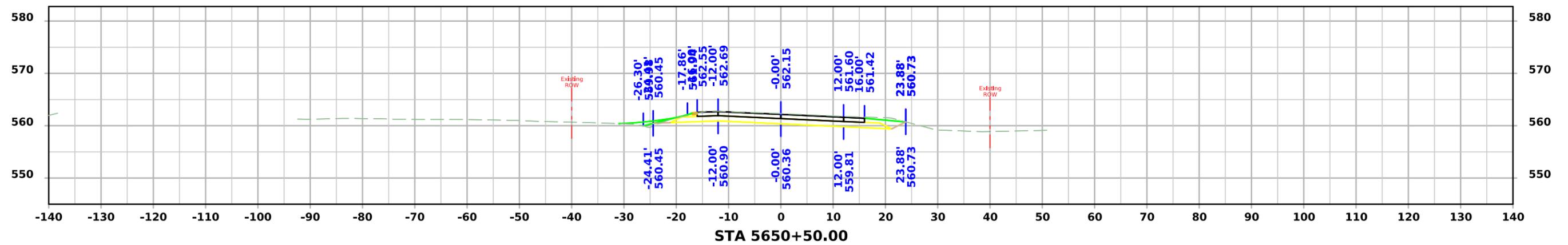
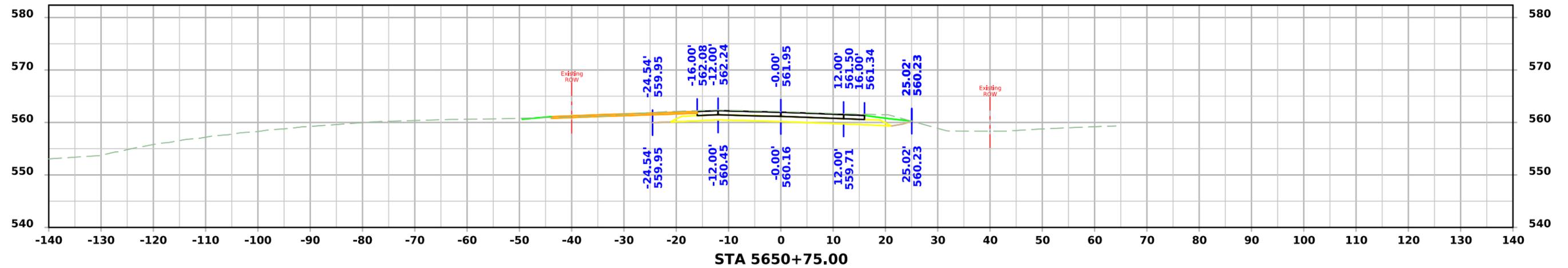
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(COVERS SHEET SERIES W, X, Y, & Z)

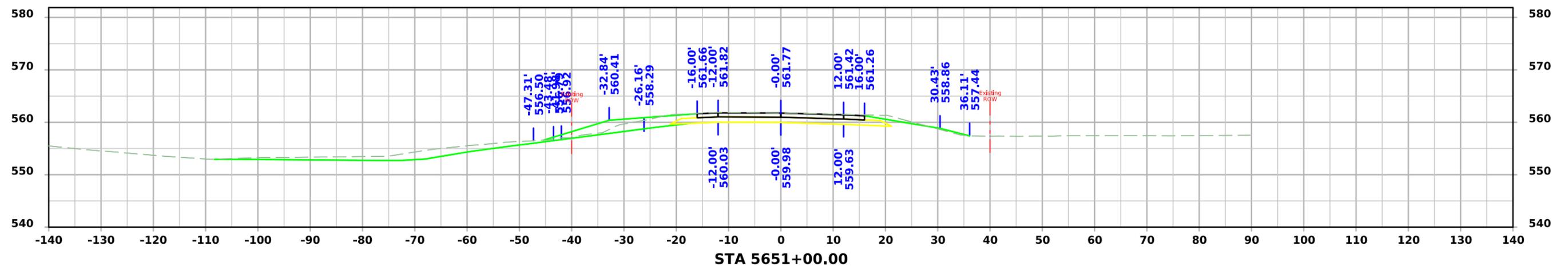
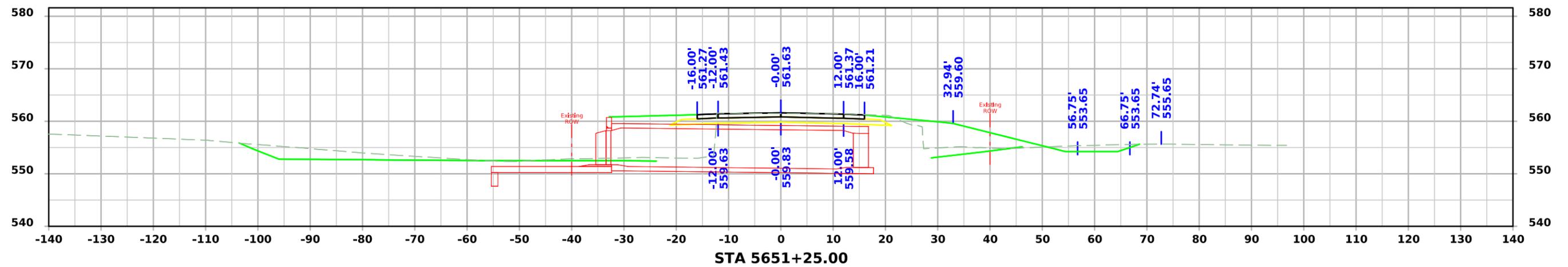
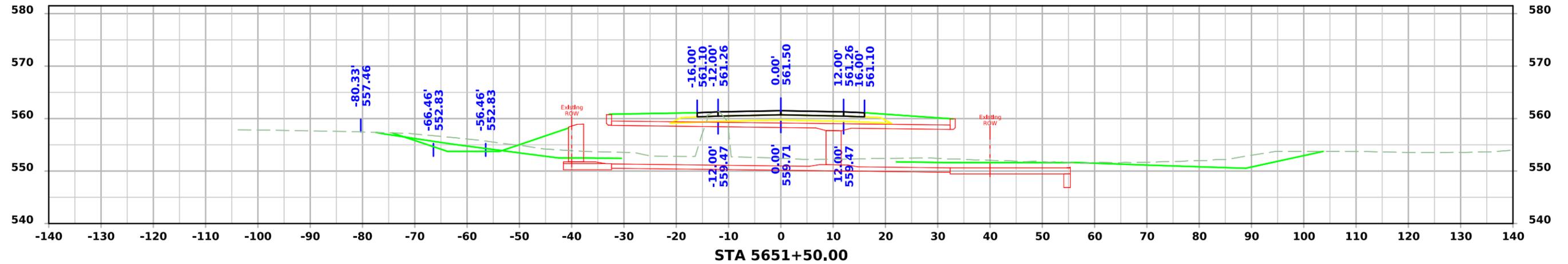
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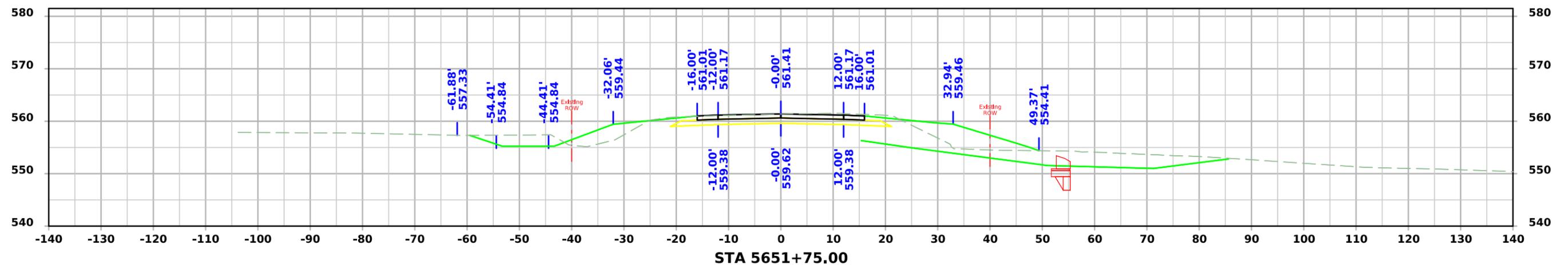
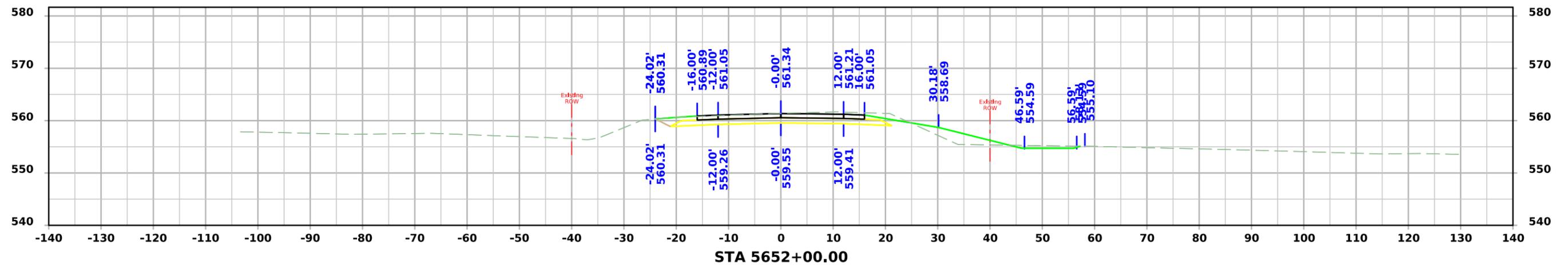
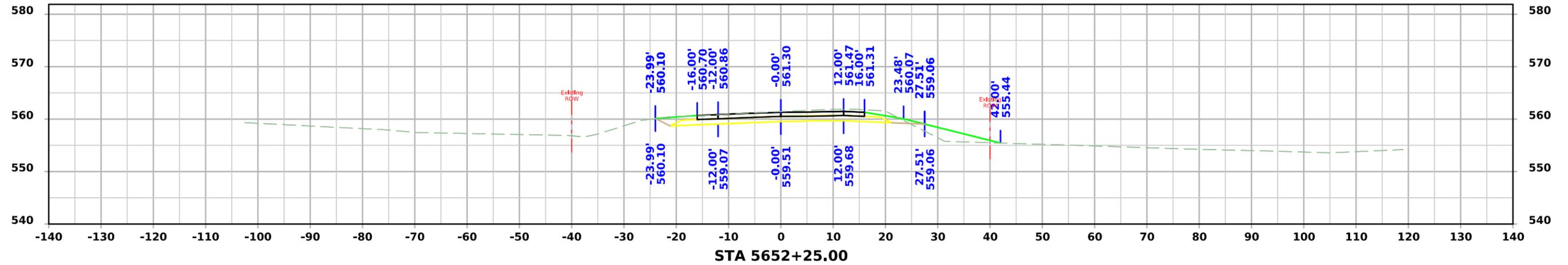
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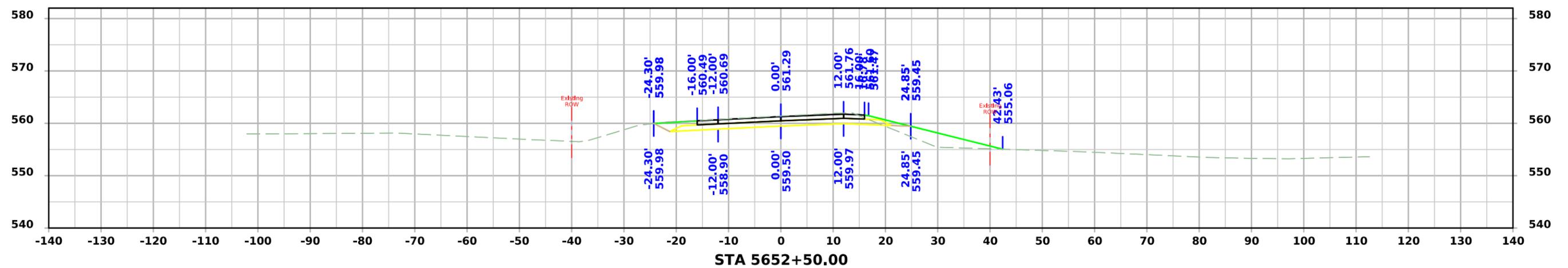
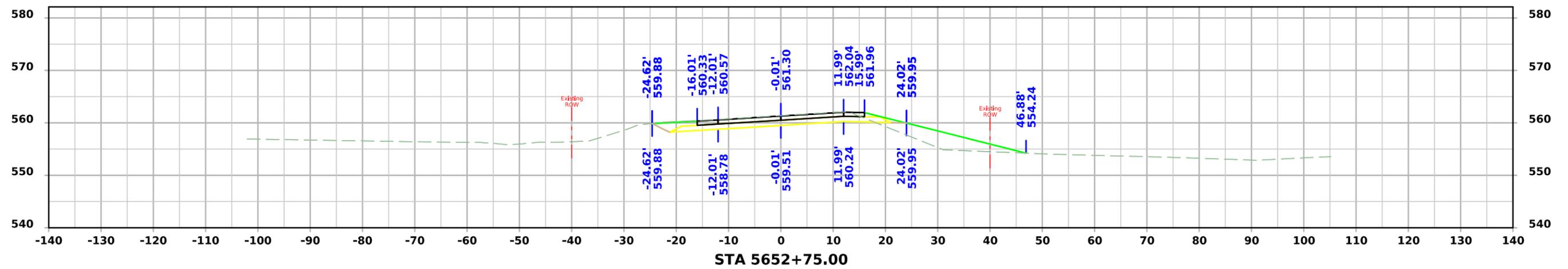
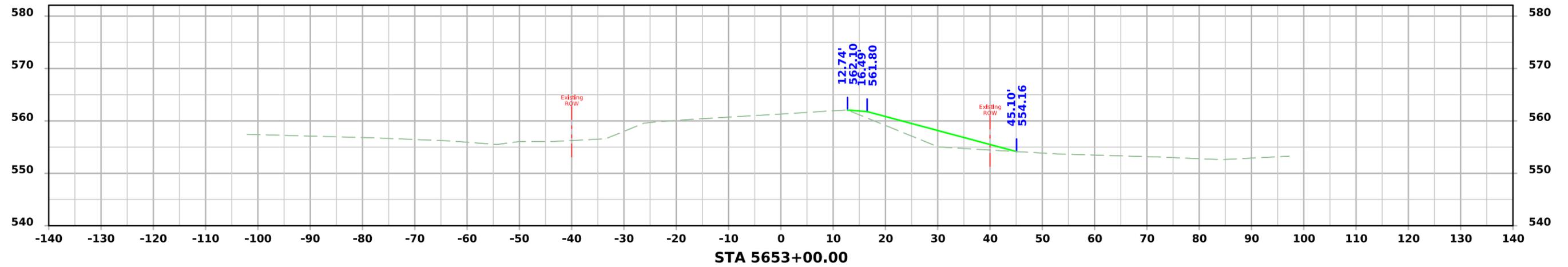
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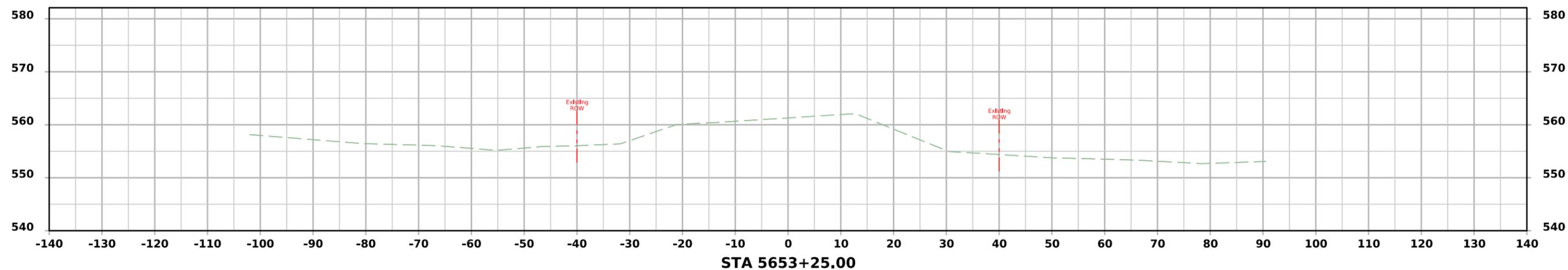
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Mainline Entrances

