

SHELBY COUNTY

Grading
MP-044-4(712)12--76-83

LETTING DATE
March 21, 2028



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
SHELBY COUNTY
Grading
Dogwood Loop Intersection 0.8 mi E of IA 191

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

17

PROJECT IDENTIFICATION NUMBER

26-83-044-020

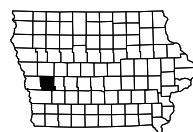
PROJECT NUMBER

MP-044-4(712)12--76-83

R.O.W. PROJECT NUMBER

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
A.3 - 7	Concept Sheets
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
D.1	Plan & Profile Legend & Symbol Information Sheet
D.2	Iowa 44
E Sheets	Side Road Plan and Profile Sheets
E.1	Dogwood Loop
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan and Coordinated Operations
W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 3	Mainline Iowa 44 Cross Sections
X Sheets	Side Road Cross Sections
X.1 - 2	Side Road Dogwood Loop Cross Sections

DESIGN DATA RURAL			
2026	AADT	1,220	V.P.D.
20 --	AADT	--	V.P.D.
20 --	DHV	--	V.P.H.
	TRUCKS	16	%
	Total Design ESALs	--	



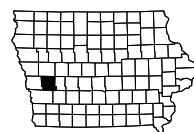
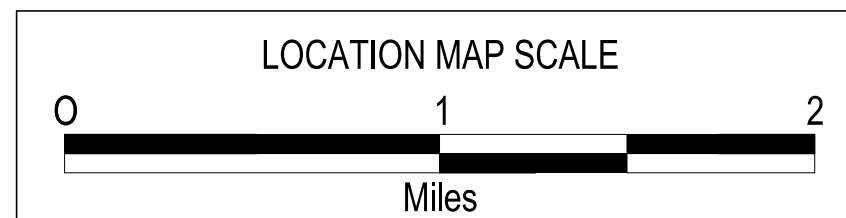
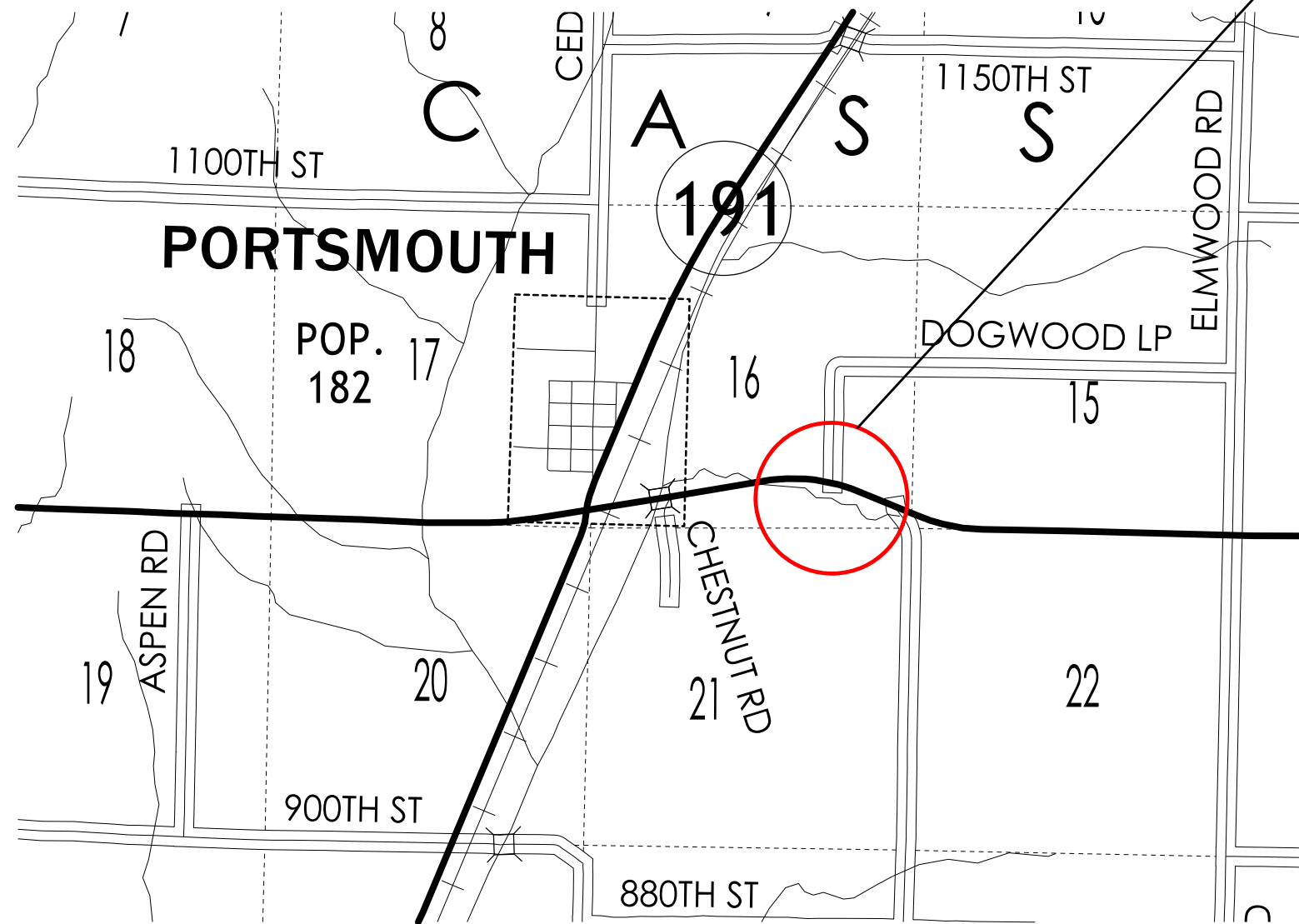
INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	X	Primary Signature Block	X
X	X	X	X

PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN - Date: 05/18/26

Ref. Loc. MP 12.04
Sta. 147+70.00
BEGIN CONSTRUCTION
Sta. 147+90.00
END CONSTRUCTION



TO OFFICE: District 4

DATE: December 22, 2025

ATTENTION: Scott Schram

COUNTY: Shelby

FROM: Wes Mayberry

PROJ. NO.: MP-044-4(712)12--76-83

PIN: 26-83-044-020

FOLDER: 8304402026

OFFICE: District 4

SUBJECT: FY 28 Concept Statement - **FINAL**

FEASIBLE ALTERNATIVES:

One alternative is being considered. This alternative is to cleanout the culverts and reshape the ditches to drain to the culverts.

RECOMMENDATIONS:

Cleanout the culverts and reshape the ditches to drain.

	Unit	Quantity	Unit \$	
Excavation, CL 13, Waste	CY	300	\$ 100	\$ 30,000
Clean Out Pipe Culvert	LF	134	\$ 25	\$ 3,350
Mobilization	LS	1		\$ 10,000
Traffic Control	LS	1		\$ 5,000
Erosion Control	5%			\$ 2,418
Unquantified	30%			\$ 14,505
			Total	\$ 65,273

PROJECT LOCATION:



FUNDS PROGRAMMED:

District 4 FY 28 MP funds will be used to pay for these improvements.

PROJECT DATA:

ROUTE: Highway 44

NHS ROUTE: No

TRAFFIC: Current Year: 1,220 ADT with 16% Trucks

PURPOSE AND NEED: The purpose of this project is to restore proper drainage along Dogwood Loop and Highway 44. Over time, a lack of maintenance has led to the accumulation of sediment and debris in the roadside ditches and the culvert beneath Dogwood Loop, significantly reducing their capacity. Additionally, utility installations near the buried culvert have further complicated drainage in the area.

During heavy rain events, stormwater overtops the ditches and flows onto Highway 44, creating hazardous driving conditions. This project aims to mitigate those risks by relocating utilities away from the culvert, cleaning out the culvert, and restoring the ditches to their original design profiles to ensure effective drainage and improve roadway safety.



PROJECT IMPACTS:

Designed by: Design and District

Design Impact	Assistance Requested (Y/N)	Remarks
ADA:	N	
Agreements:	N	
Bridges and Structures:	N	
Consultant:	N	
Contracts:	N	
Design/Methods:	Y	Wes will request help from the Design Bureau
Location and Environment:	N	
Maintenance: (Shop Location)	N	
Project Management:	N	
Railroad:	N	
RCE: (Office Name)	N	
Right of Way:	Y	Temporary easements may be needed to restore the ditches
Soils:	N	
Survey/Photogrammetry:	Y	Survey has been requested
Systems Planning:	N	
Traffic and Safety:	N	
Utilities:	Y	Existing utilities will need to be relocated
Other:	Y	Preconstruction agreement with Shelby County will be needed

Cc: WLM

CONCEPT ANALYSIS & SUPPORTING DATA:

Date of Field Review:

Field review was done in the spring of 2025

Participants:

Wes Mayberry and Rusty Holbert

PAVEMENT:

Existing Conditions:

Does not apply to this project

Pavement History: Does not apply to this project

PMIS Data: Does not apply to this project

Pavement Design & dTIM S Recommendation:

Does not apply to this project

Subdrains:

Does not apply to this project

Patching Needs:

Does not apply to this project

ADA/Sidewalk/Trail Work:

Does not apply to this project

SAFETY**3R Design Criteria:**

Does not apply to this project.

Crash Analysis:**Corridor Crash History:**

There have been 3 reported crashes in the previous 10 years. One is related to an animal. One is related to driving too fast for conditions and the other crash is related to passing without insufficient distance.

Intersection Crash History:

There are no reported crashes at this intersection.

Intersection Analysis:

Does not apply to this project

Other Safety Considerations:

No other safety considerations are being considered for this grading project.

Railroads: (from Scoping Tool)

All RR crossing within project limits or 100 feet of project limits.

There is a RR crossing 0.75 miles away from this project.

STRUCTURES and DRAINAGE:**Bridges:**

There are no bridges within the project limits.

Culverts:

The existing culvert are buried. This project will cleanout the culvert and reshape the ditches to drain into the culverts.

Guardrail:

Does not apply to this project.

PROJECT IMPACTS:

Designed by: Design and District

Design Impact	Assistance Requested (Y/N)	Remarks
ADA:	N	
Agreements:	N	
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Consultant:	N	
Contracts:	N	
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Systems Planning:	N	
Traffic and Safety:	N	
Utilities:	Y	Existing utilities will need to be relocated
Other:	Y	Preconstruction agreement with Shelby County will be needed

Cc: WLM

PROJECT IMPACTS:

Detailed Map:

Refer to ERSA file.

Environmental:

There are no obvious environmental resources within the project area. LEB will need to review the ERSA file to confirm if environmental resources are within the area.

After review of the subject project, LEB Bureau has made a determination of NO 404 PERMIT REQUIRED, as long as all materials (accumulated sediment) removed from the culvert is disposed of in an upland area. The proposed project is primarily a Grading project that will not impact any regulated waters or natural resources.

Traffic Control:

Include any special traffic control notes, identify staged or detoured, possible restricted work hours, traffic critical, etc.

ROW Needs:

The goal of this project is to restore drainage within existing right of way.

Agreements:

A county preconstruction agreement will be needed to reshape ditches on county right of way.

Project Coordination:

There are no planned projects in the vicinity currently.

Future Projects List:

There is no future projects planned at this time.

FEASIBLE ALTERNATIVES & RECOMMENDATION:

Feasible Alternatives:

Cleanout the culverts and reshape the ditches to drain.

	Unit	Quantity	Unit \$	
Excavation, CL 13, Waste	CY	300	\$ 100	\$ 30,000
Clean Out Pipe Culvert	LF	134	\$ 25	\$ 3,350
Mobilization	LS	1		\$ 10,000
Traffic Control	LS	1		\$ 5,000
Erosion Control	5%			\$ 2,418
Unquantified	30%			\$ 14,505
			Total	\$ 65,273

Recommendation:

The recommendation is to reshape the ditches to restore drainage to the culverts and cleanout the culverts.

Funds Programmed:

This project will be funded with District 4 MP funds. \$75,000 has been allocated for this project.

Development Schedule:

Task Name	Description	Start	Finish
D00	Pre-Design Concept	09/19/2025	10/31/2025
TE0	Desktop Review	11/03/2025	12/05/2025
U00	Preliminary Utility Review	11/03/2025	12/05/2025
W00	Preliminary Wetland Review	11/03/2025	12/05/2025
D01	Survey Plan and Photogrammetry (DTM)	11/03/2025	01/30/2026
T01	Existing ROW, Property and Sections Lines in CADD	02/02/2026	02/06/2026
D02	Design Field Exam	02/06/2026	04/03/2026
D03	Plans for Preliminary Bridge	02/06/2026	04/17/2026
H00	Cultural Resources Assessment	11/03/2025	05/08/2026
H06	SHPO-State Historic Preservation Officer	05/08/2026	05/08/2026
B02	Drainage Design and Miscellaneous Layout to Office of Design	04/20/2026	07/17/2026
D05	Plans to Right Of Way	04/20/2026	07/31/2026
U02	Project Notification to Utilities	04/06/2026	08/07/2026
F03	Final Regulated Materials Review	08/03/2026	09/04/2026
R01	Right Of Way Layout	08/03/2026	10/30/2026
R00	Plot Plans and Summary Sheets to District	10/30/2026	10/30/2026
P10	Public Involvement Activities by District	12/04/2026	12/04/2026
T02	Acquisition Plats and Legal Descriptions	10/30/2026	12/18/2026
U03	1st Plan Submittal to Utilities	11/02/2026	03/05/2027
R02	Right Of Way Appraisal	12/21/2026	03/19/2027
R03	Right Of Way Negotiation	03/22/2027	06/18/2027
U04	2nd Plan Submittal to Utilities	05/10/2027	07/08/2027
S03	Soils Design Complete	05/07/2027	09/03/2027
U06	Notice to Proceed to Utilities	09/06/2027	10/06/2027
DM5	Design Methods Turn-In	11/30/2027	11/30/2027
R04	Right Of Way Acquisition	06/21/2027	12/17/2027
R10	ROW Clearance	12/17/2027	12/17/2027
U07	Utility Bid Attachment	11/29/2027	01/04/2028
U10	Utility clearance	01/04/2028	01/04/2028
D06	Final Grade Plans	12/03/2027	01/04/2028
L01	Letting-Grade	03/21/2028	03/21/2028
C02	Construction Period (Field Work)	03/22/2028	11/17/2028

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
- Traffic Signal Control Box
- Rail Road Signal Control Box
- Telephone Switch Box
- Electric Box

UTILITY LEGEND

SURVEYED UTILITY OWNER SYMBOLS

Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Remark Abbreviations
 QLA Quality Level A Highest guideline quality level
 QLD Quality Level D Lowest guideline quality level

- PPA, Midamerican Energy
- FO2, FO1D, Farmers Mutual COOP - Quality D
- FO, FO2D, Verizon - Quality D
- T1, TL1D, Windstream - 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

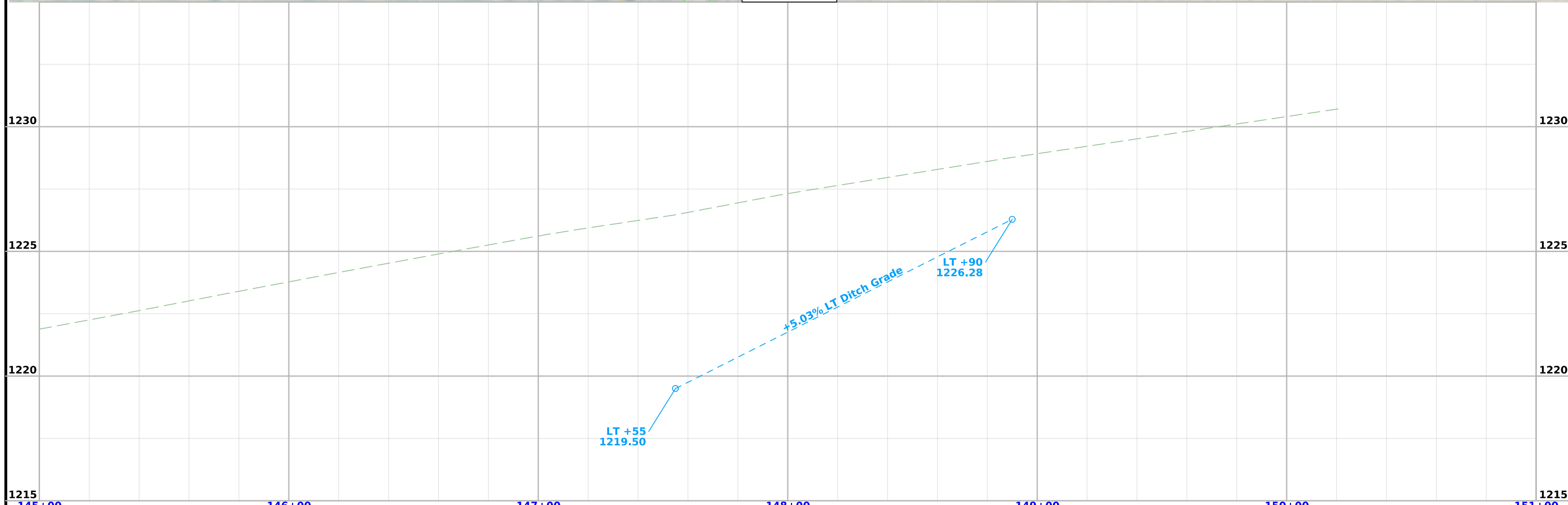
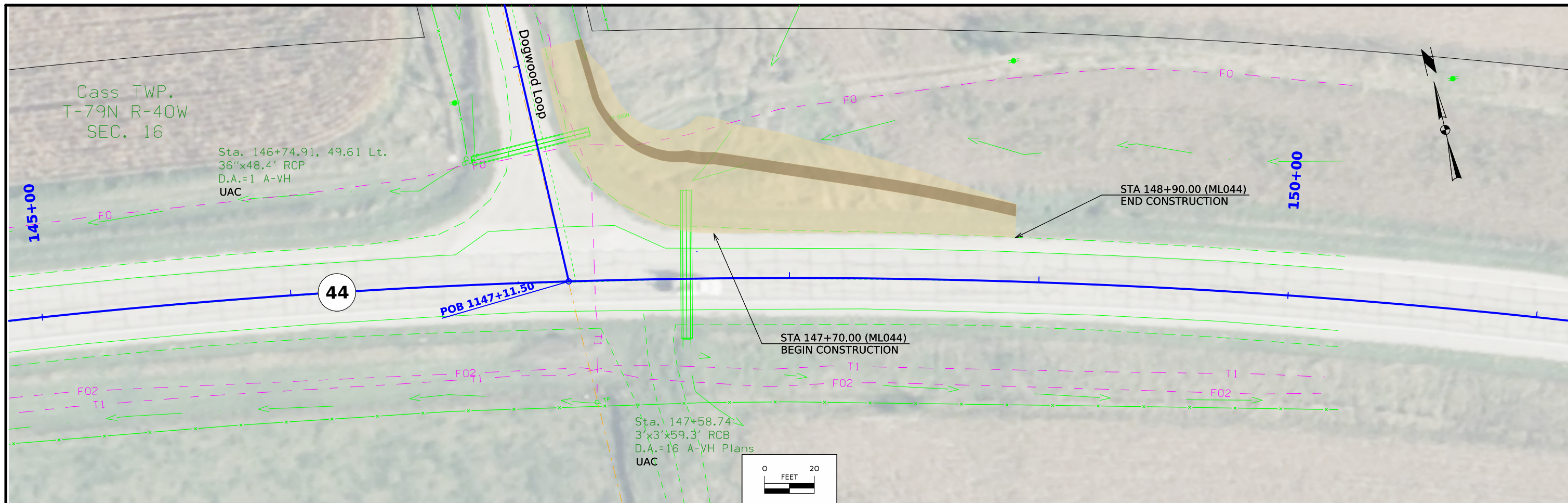
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

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

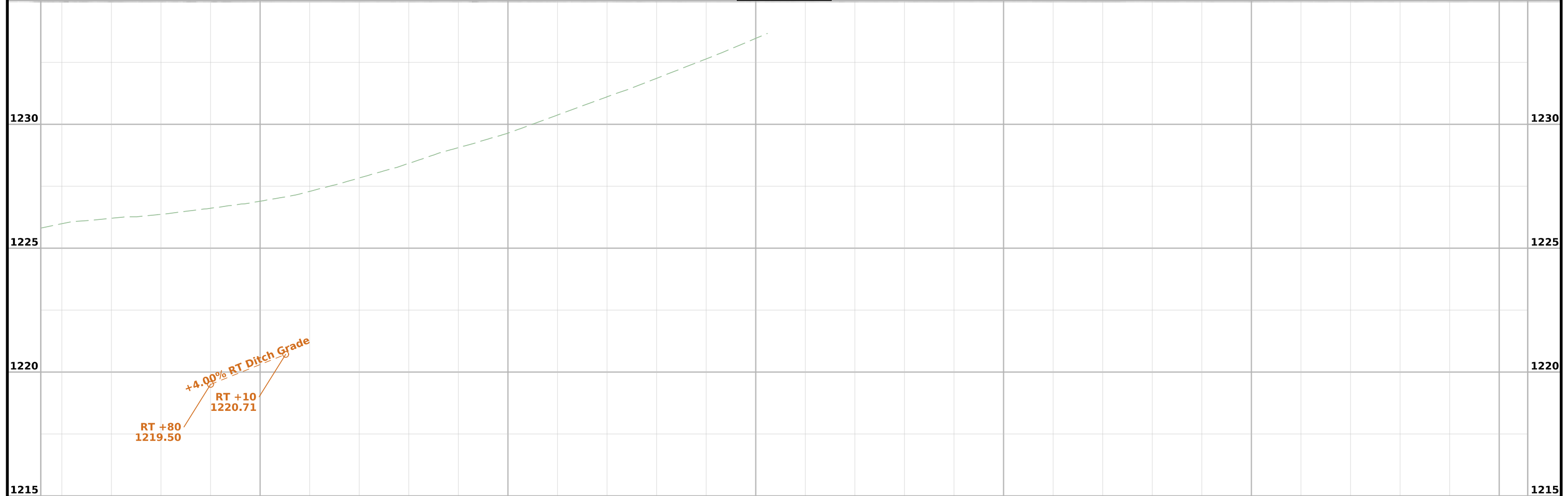
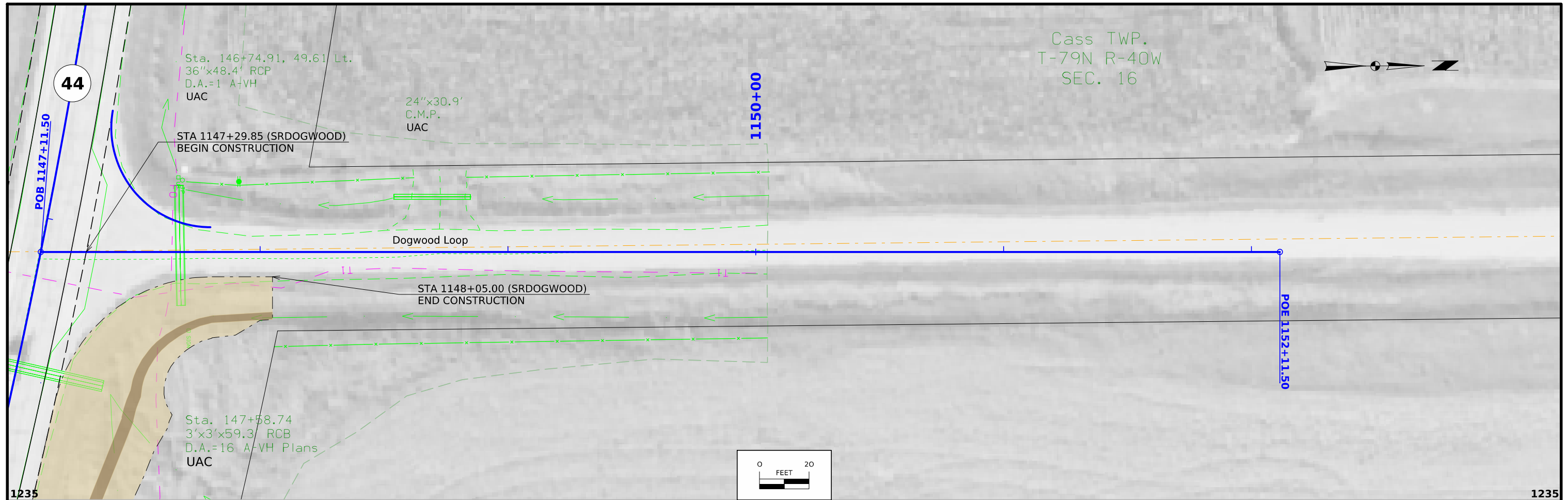
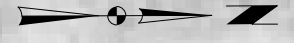
PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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



FILE NO.	ENGLISH	DESIGN TEAM	SHELBY COUNTY	PROJECT NUMBER	SHEET NUMBER
		Flattery/Bell/Schinstock/Schmitz		MP-044-4(712)12--76-83	D.2

Cass TWP.
T-79N R-40W
SEC. 16



FILE NO.	ENGLISH	DESIGN TEAM	FLATTERY/BELL/SCHINSTOCK/SCHMITZ	SHELBY COUNTY	PROJECT NUMBER	MP-044-4(712)12--76-83	SHEET NUMBER	E.1
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108-23A 08-01-08
TRAFFIC CONTROL PLAN
Traffic on Iowa 44 shall be maintained at all times. Traffic on Dogwood Loop shall be maintained at all times.

111-01 04-17-12												
COORDINATED OPERATIONS												
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.												
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Project</th> <th style="width: 50%;">Type of Work</th> </tr> </thead> <tbody> <tr> <td>None Provided</td> <td></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Project	Type of Work	None Provided									
Project	Type of Work											
None Provided												

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
Unsuitable / Waste			
(0)	Existing Pavement	(3)	Unsuitable Type A
Shoulder			
(209)	Shoulder HMA	(216)	Unsuitable Type A Removed
(0)	Shoulder PCC	(13)	Unsuitable Type B
(6)	Shoulder Granular	(217)	Unsuitable Type B Removed
Structural			
(112)	Noise Wall	(11)	Unsuitable Type C
(112)	Noise Wall Footing	(218)	Unsuitable Type C Removed
(112)	Retaining Wall Back	(3)	Waste
(112)	Retaining Wall Back Excavate	(219)	Waste Removed
(112)	Retaining Wall Face		
(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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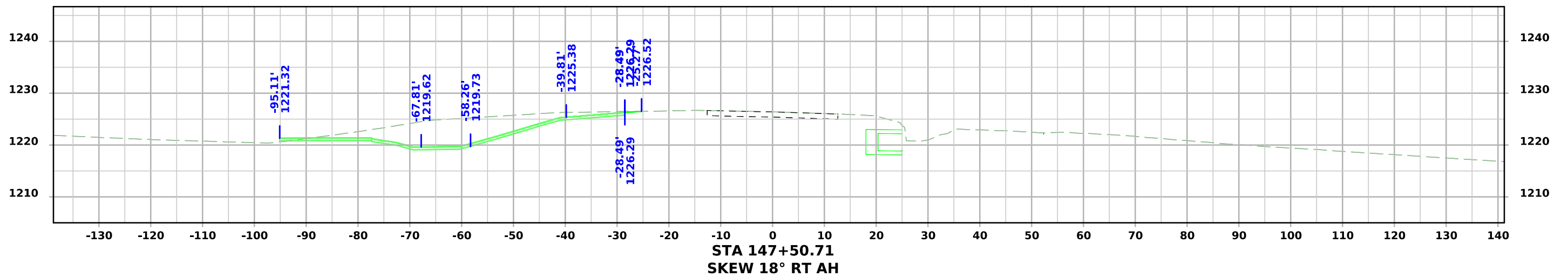
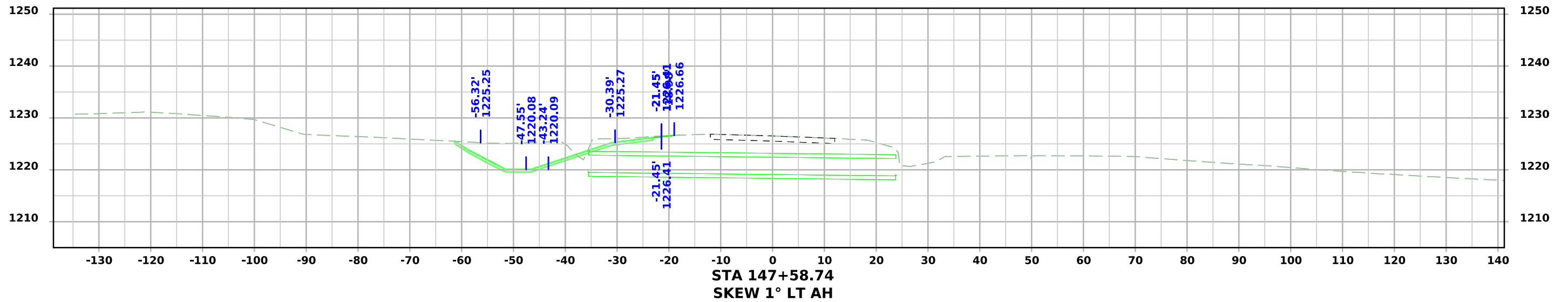
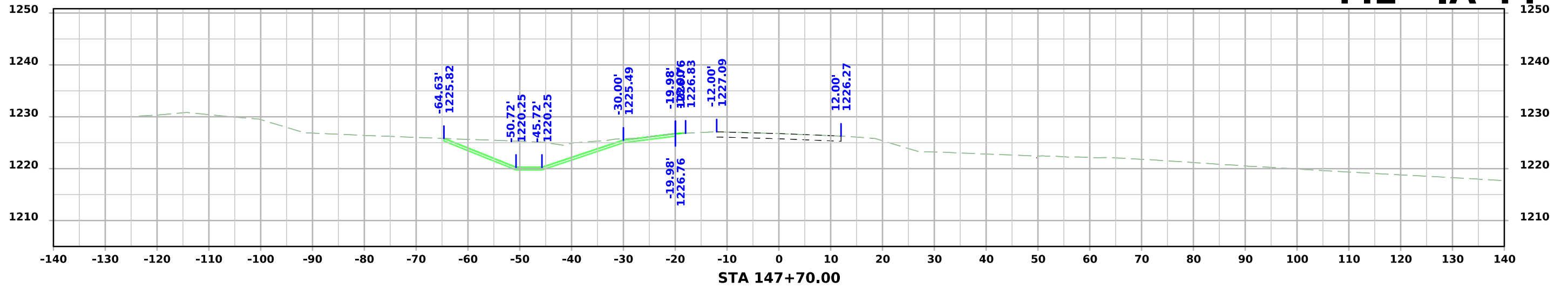
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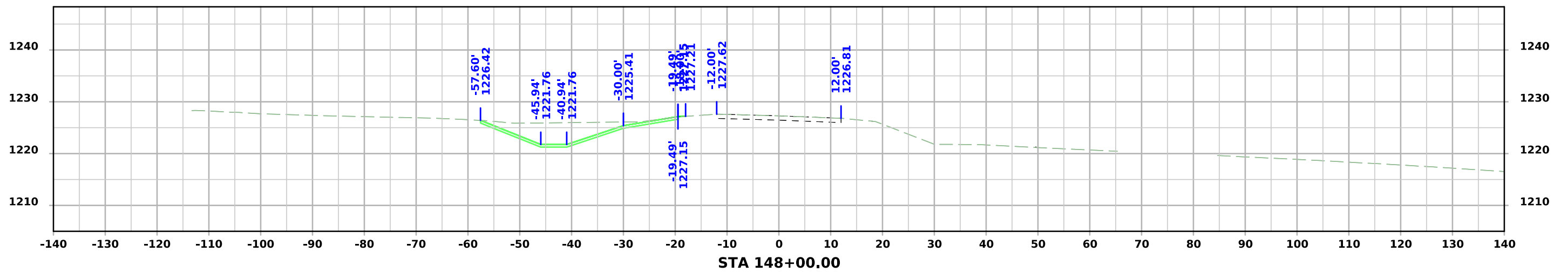
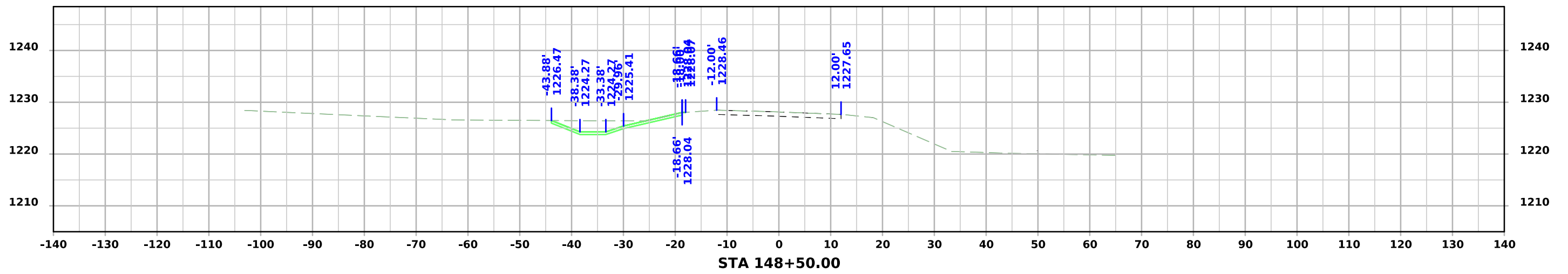
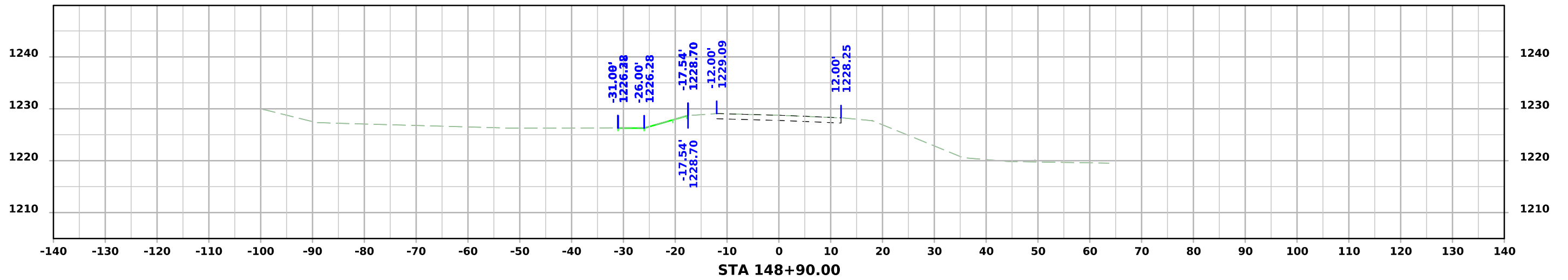
CROSS SECTIONS LEGEND AND INFORMATION SHEET

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

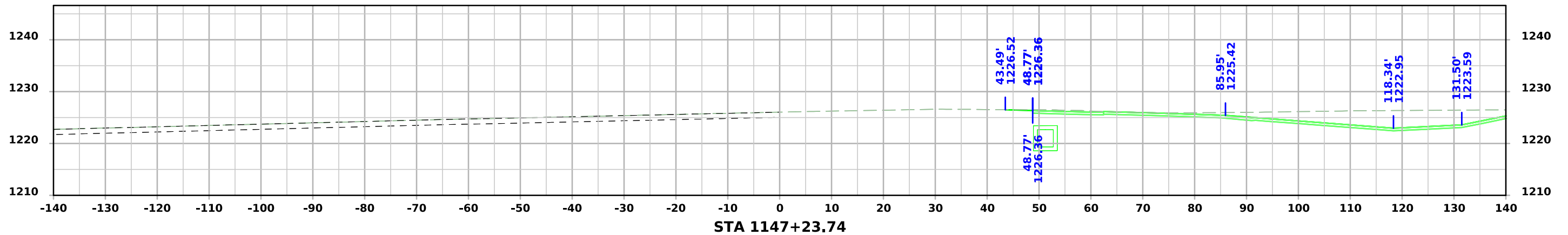
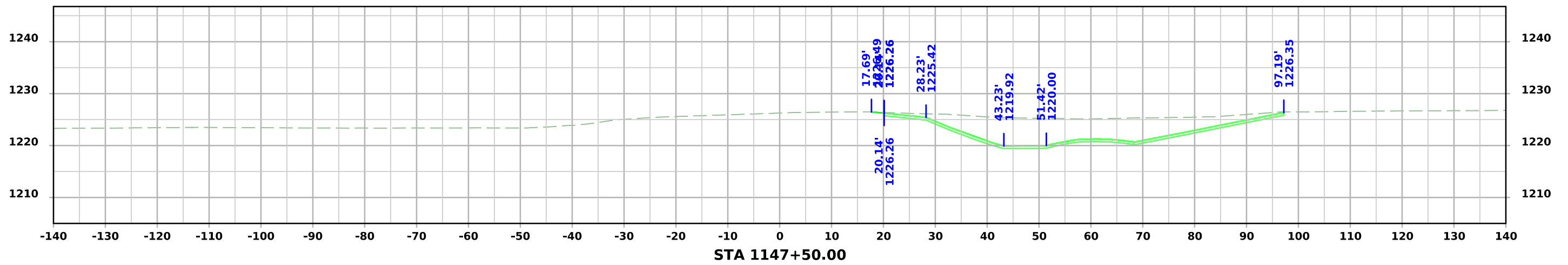
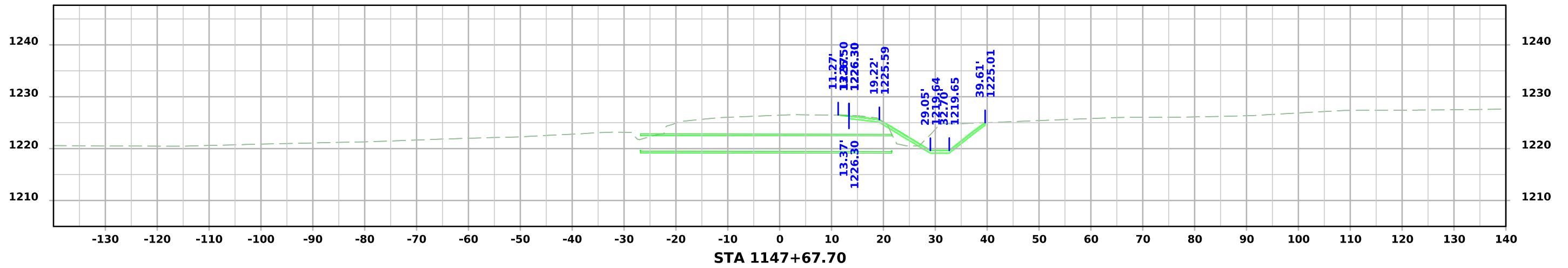
ML - IA 44



ML - IA 44



SR - Dogwood Loop



SR - Dogwood Loop

