Grading
MP-044-4(712)12--76-83
LETTING DATE **March 21 2028**

SHELBY 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 | Typical Cross Sections and Details |
| **D Sheets** | **Mainline Plan and Profile Sheets** |
| D.1 | Plan & Profile Legend & Symbol Information Sheet |
| D.2 - 3 | Iowa 44 |
| **E Sheets** | **Side Road Plan and Profile Sheets** |
| E.1 - 2 | 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 - 6 | Mainline Iowa 44 Cross Sections |
| **X Sheets** | **Side Road Cross Sections** |
| X.1 - 2 | Side Road Dogwood Loop Cross Sections |

IOWA DOT

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 1105.13 of the Specifications.

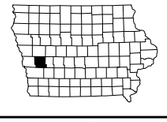
IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

| TOTAL 17 |
|---|
| PROJECT IDENTIFICATION NUMBER |
| 26-83-044-020 |
| PROJECT NUMBER |
| MP-044-4(712)12--76-83 |
| R.O.W. PROJECT NUMBER |

Scan the QR code or click the link below to leave plan quality feedback and help us improve future projects.

**Design QR Feedback Link**



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

# PRELIMINARY PLANS

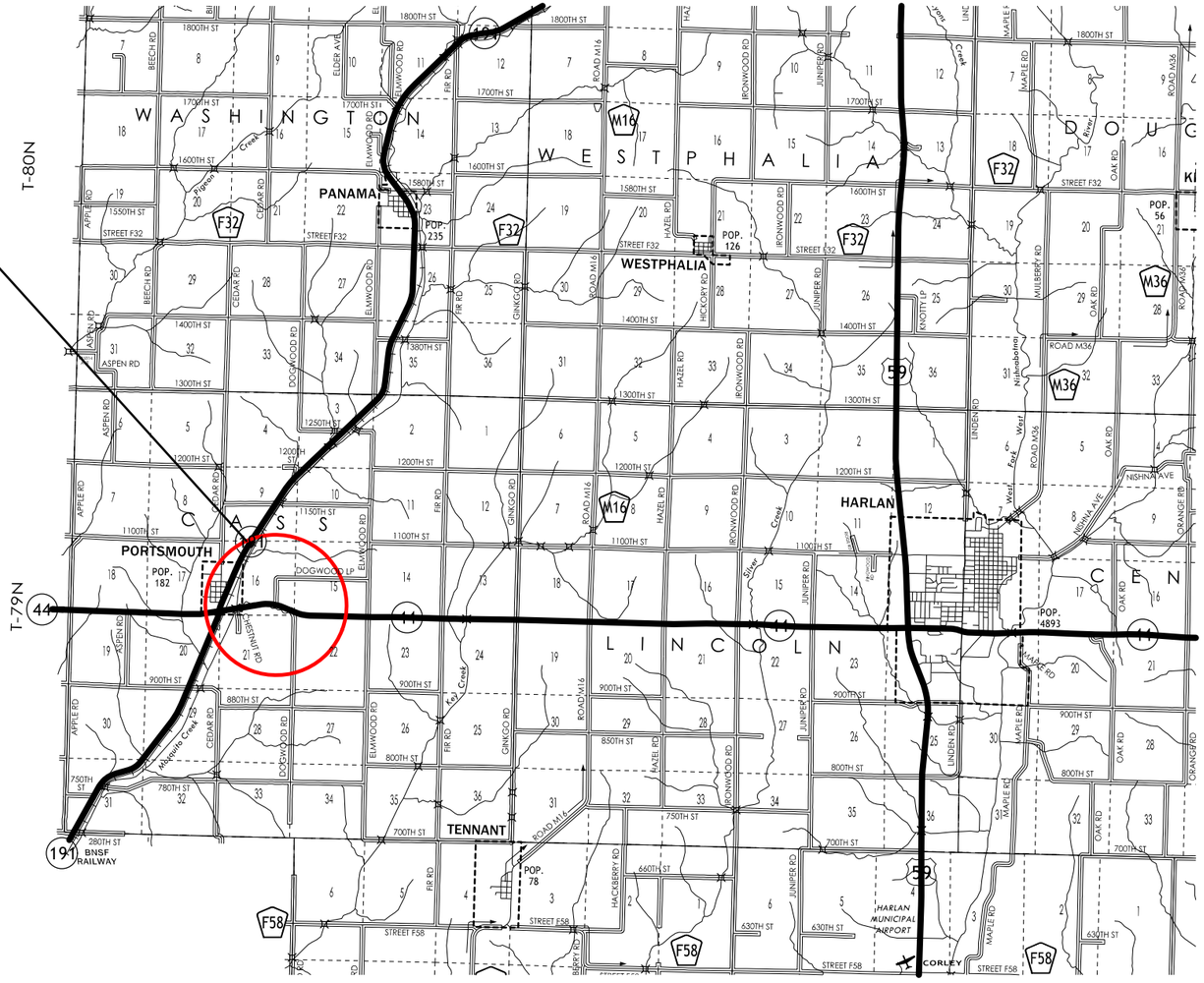
Subject to change by final design.

D5 PLAN - Date: 10/15/26

| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER A.1 |
|---|---|---|---|---|---|

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Ref. Loc. MP 12.04
Sta. 147+55.00
BEGIN CONSTRUCTION
Sta. 148+90.00
END CONSTRUCTION

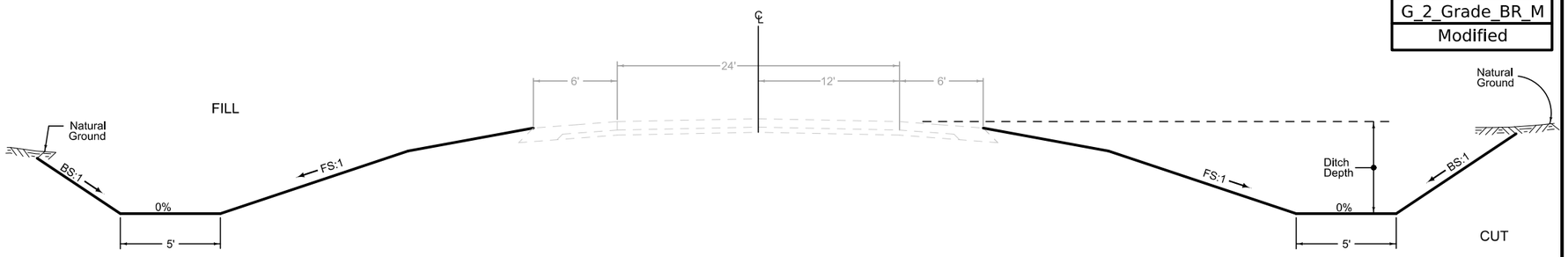



LOCATION MAP SCALE
0 1 2 3
Miles

| FILE NO. | ENGLISH | DESIGN TEAM | COUNTY | PROJECT NUMBER | SHEET NUMBER A.02 | |
|---|---|---|---|---|---|---|

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| LOCATION | | | SIDE | DIMENSIONS | |
|---|---|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | | FS | BS |
| | | | | | |
| Iowa 44 | 147+55.00 | 148+00.00 | EB | 3:1 | 2.5:1 |
| | | | | | |
| Iowa 44 | 147+38.39 | 150+20.00 | WB | 3:1 | 2.5:1 |




G_2_Grade_BR_M
Modified

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

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

**2 LANE GRADING**

| LOCATION | | | DIMENSIONS | |
|---|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | FS | BS |
| | | | | |
| Dogwood Loop | 1147+29.85 | 1148+05.00 | 3:1 | 2.5:1 |




G_2_Grade_BR_M
Modified

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

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

**2 LANE GRADING**

| FILE NO. | ENGLISH | DESIGN TEAM **Flattery/Bell/Schinstock/Schmitz** | **SHELBY** COUNTY | PROJECT NUMBER **MP-044-4(712)12--76-83** | SHEET NUMBER **B.1** | |
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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

### 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
- F02 — FO1D, Farmers Mutual COOP - Quality D
- F0 — 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 Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER D.1 |
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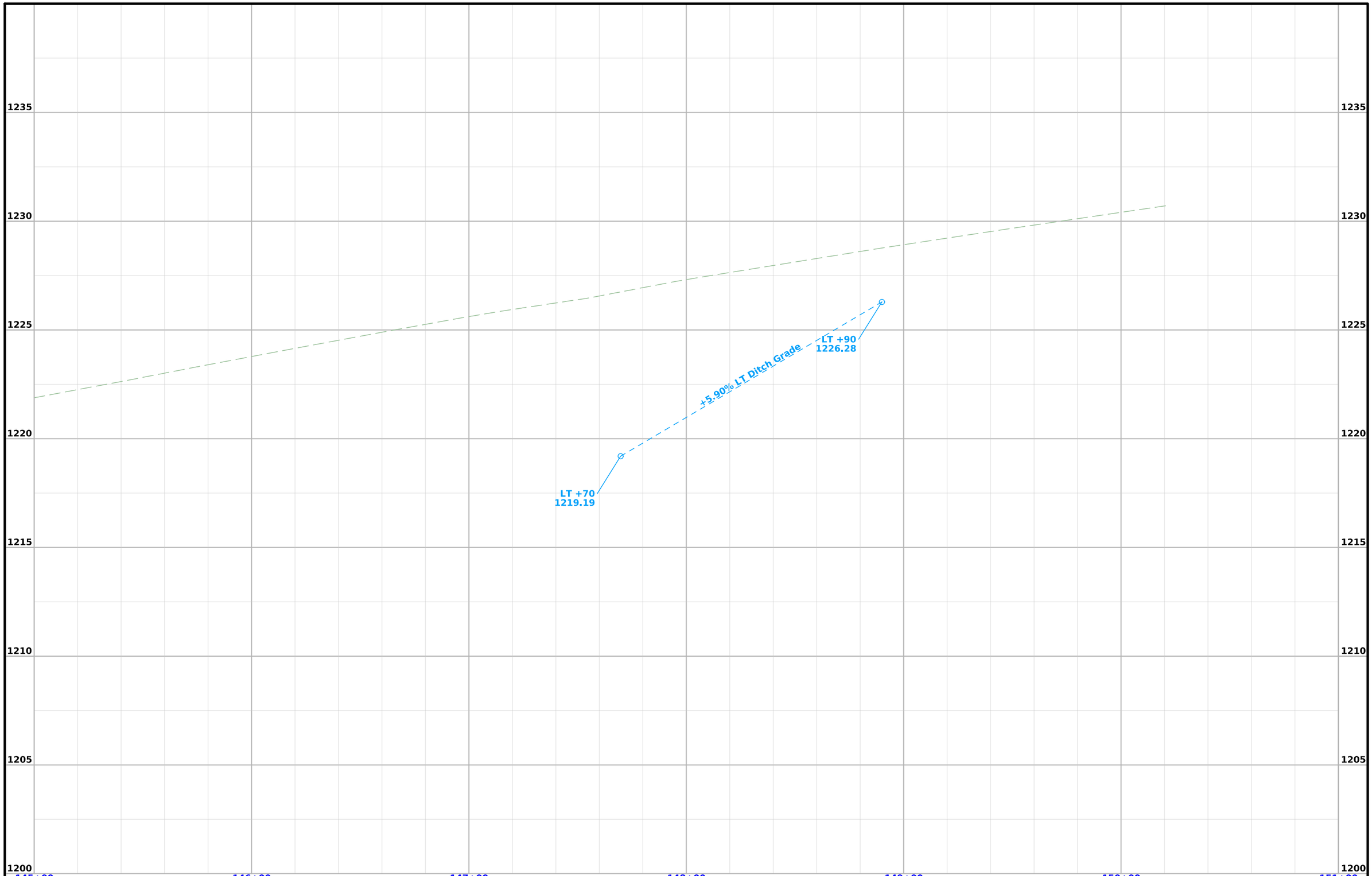
Cass TWP.
T-79N R-40W
SEC. 16

1149+00
1148+00
145+00
146+00
147+00
148+00
149+00
150+00
151+00
Dogwood Loop
FO
T1
FO2
STA 147+70.00 (ML044)
BEGIN CONSTRUCTION
BEGIN WB GRADING
STA 148+90.00 (ML044)
END WB GRADING
POB 1147+11.50
0+00
44
POB 0+00.00
POE 1+00.00
STA 147+05.00 (ML044)
BEGIN EB GRADING
STA 150+20.00 (ML044)
END EB GRADING
END CONSTRUCTION
Sta. 147+58.74
3'x3'x59.3' RCB
D.A.=16 A-VH Plans
UAC
0 20
FEET

| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER D.2 | |
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Imagery ©2026 Airbus




| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER D.3 | |
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Imagery ©2026 Airbus

44

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

146+00

Sta. 146+74.91, 49.61 Lt.
36"x48.4' RCP
D.A.=1 A-VH
UAC

STA 1147+29.85 (SRDOGWOOD)
BEGIN CONSTRUCTION

24"x30.9'
C.M.P.
UAC

1148+00

1149+00

1150+00

1151+00

Dogwood Loop

POE 1+00.00

POB 0+00.00

147+00

POB 1147+11.50

0+00

148+00

149+00

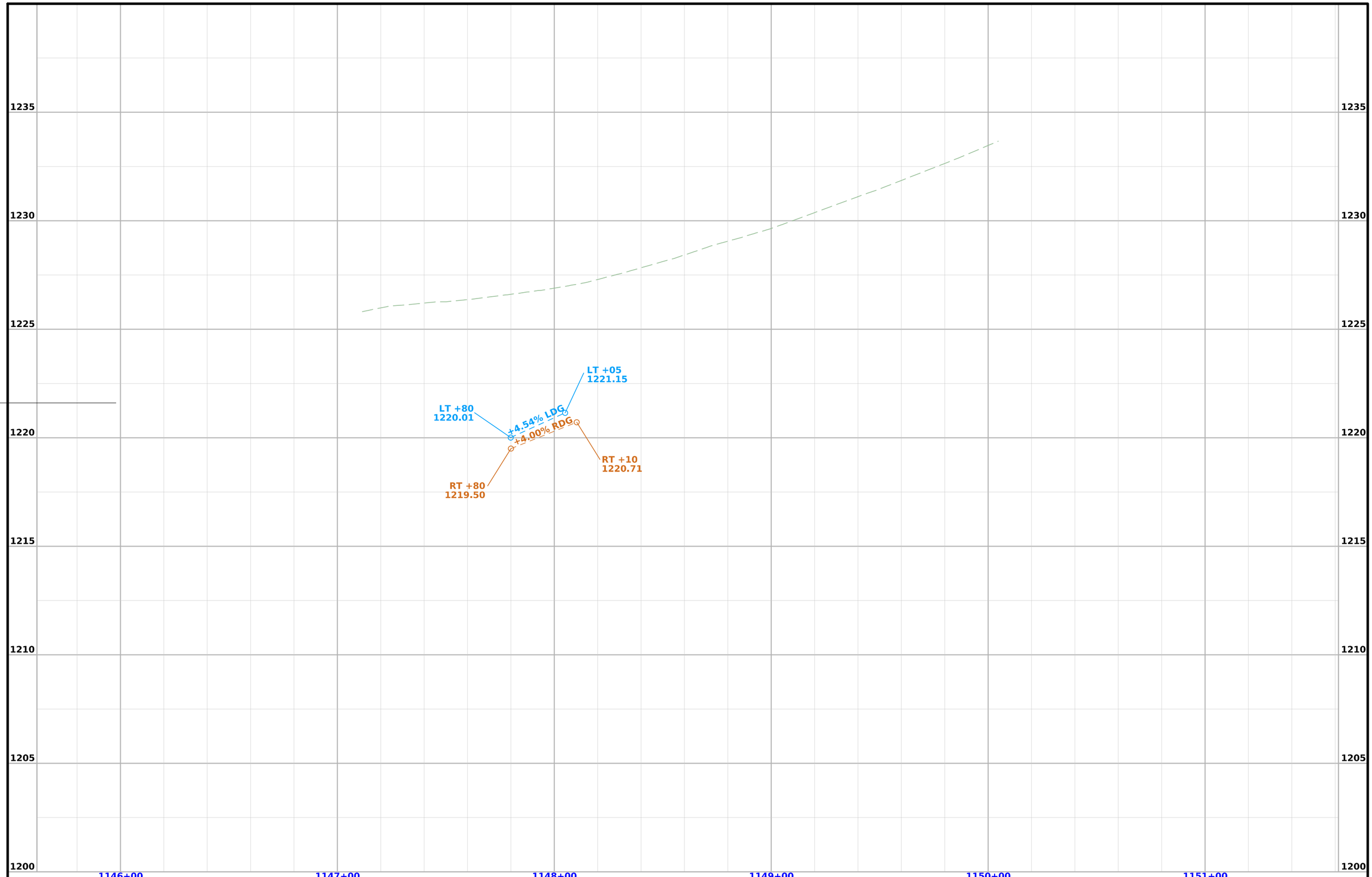
STA 1148+05.00 (SRDOGWOOD)
END CONSTRUCTION

0 20
FEET

| 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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| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER E.2 | |
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Imagery ©2026 Airbus

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.

| Project | Type of Work |
|---|---|
| None Provided | |

108-25
10-21-14

## 511 TRAVEL RESTRICTIONS

| Route | Direction | County | Location Description | Feature Crossed | Object Type | Maint. Bridge No., Structure ID, or FHWA No. | Type of Restriction | Existing Measurement | Construction Measurement | Construction Measurement as Signed | Projected As Built Measurement | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | None expected. | | | | | | | | | |

# 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 |
| **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 |
| **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 |
| **Substrata** | |
| (128) | Boulder |
| (48) | Broken Weathered |
| (3) | Core Out |
| (203) | Existing Pavement |
| (6) | Loam |
| (80) | Rock |
| (4) | Select Sand |
| (3) | Shale |
| (10) | Topsoil |
| **Unsuitable / Waste** | |
| (3) | Unsuitable Type A |
| (13) | Unsuitable Type B |
| (11) | Unsuitable Type C |
| (3) | Waste |

NOTES:

Text

NOTES:

Text

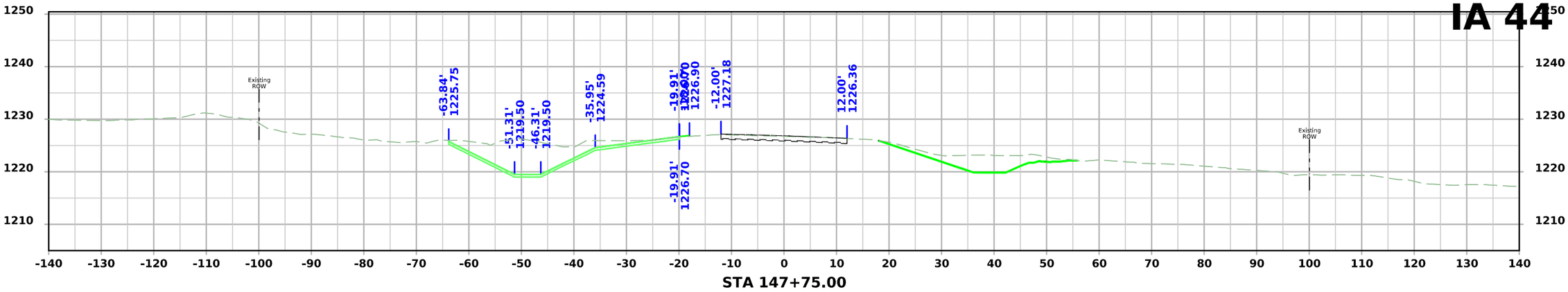
# CROSS SECTIONS
# LEGEND AND INFORMATION SHEET

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

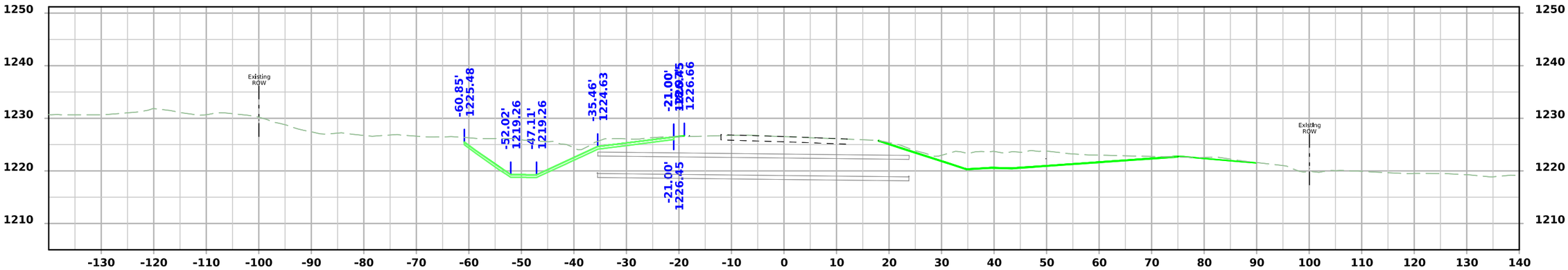
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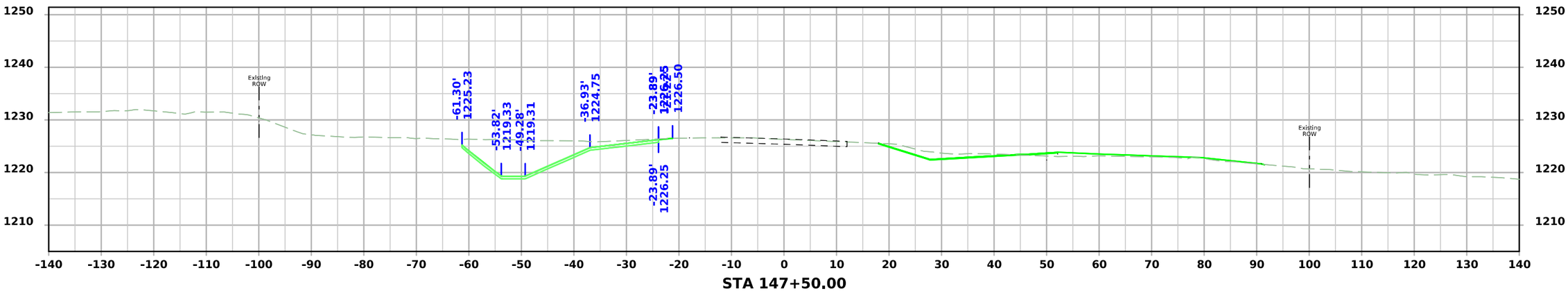
# IA 44




**STA 147+75.00**




**STA 147+58.74**
**SKEW 1° LT AH**

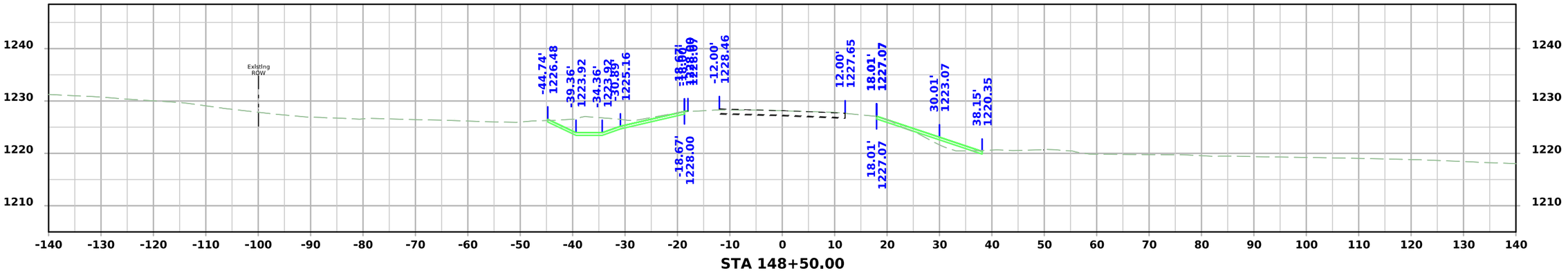



**STA 147+50.00**

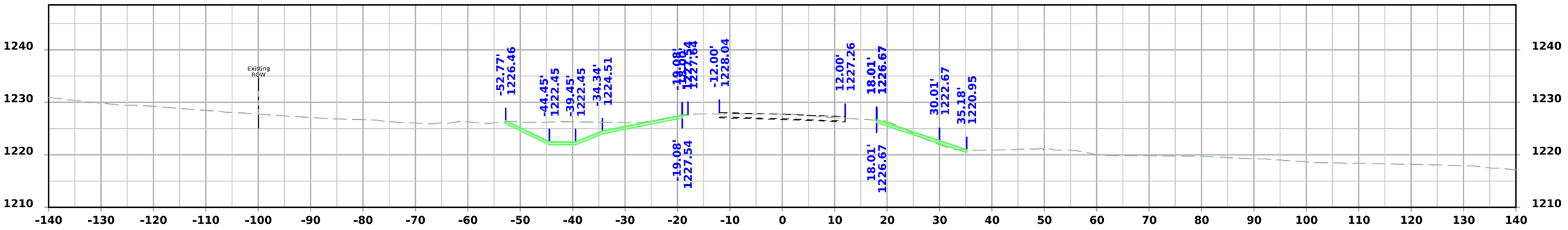
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|---|---|---|---|---|---|

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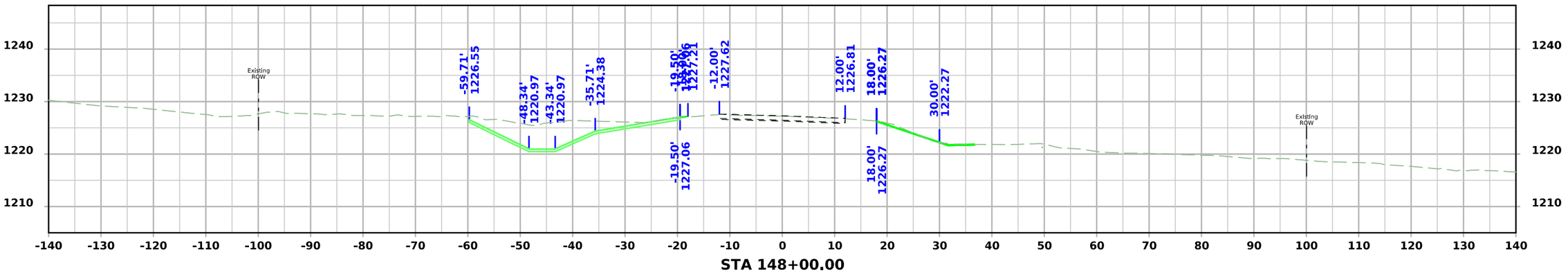
# IA 44




STA 148+50.00




STA 148+25.00

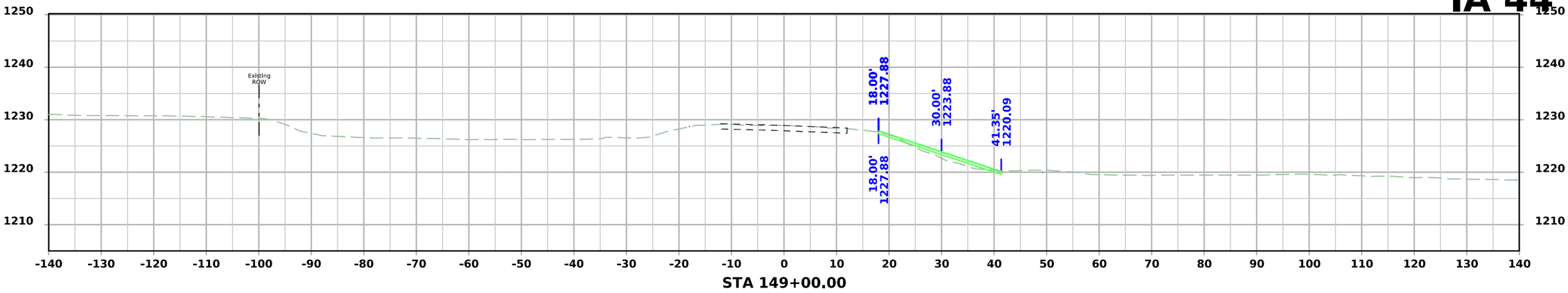


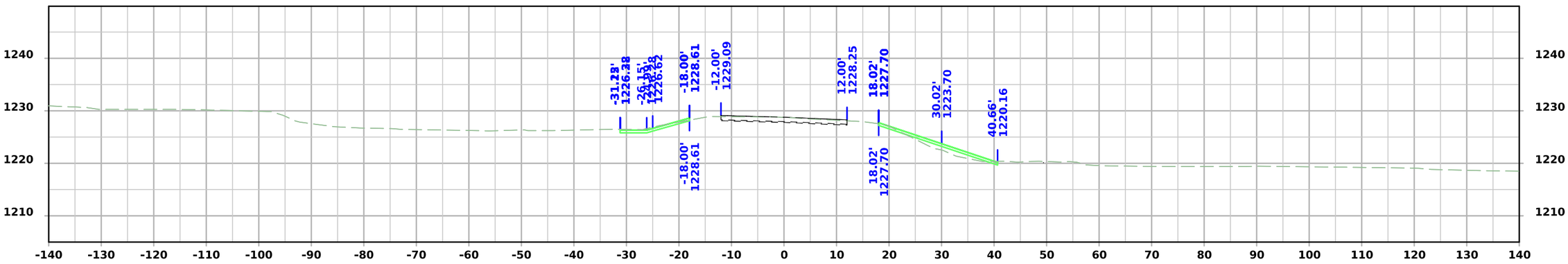

STA 148+00.00

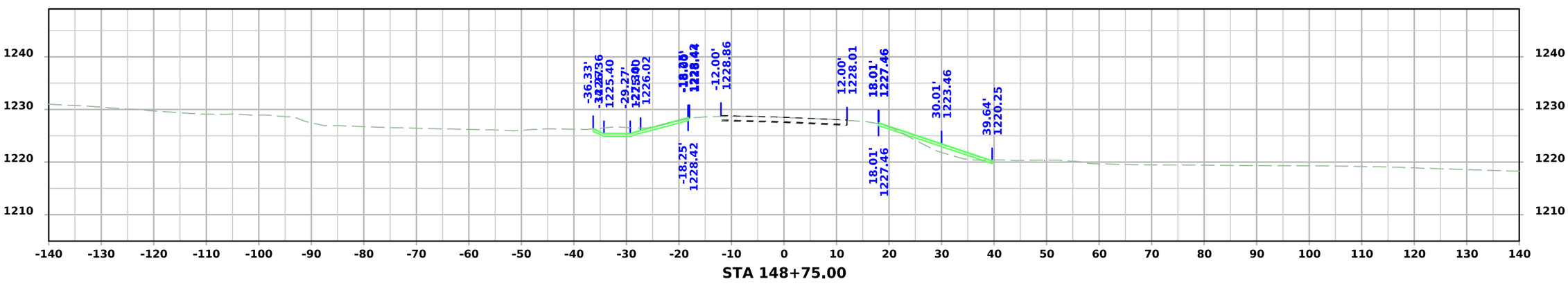
| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER W.3 | |
|---|---|---|---|---|---|---|

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# IA 44

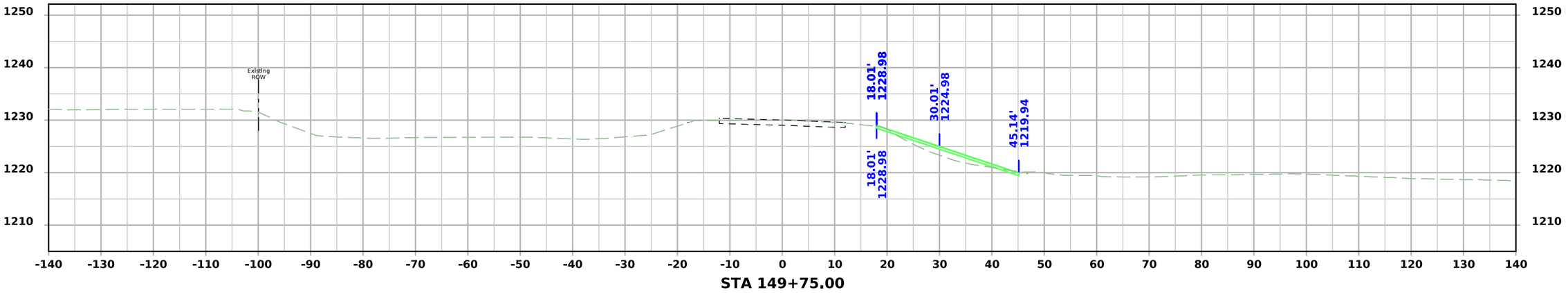


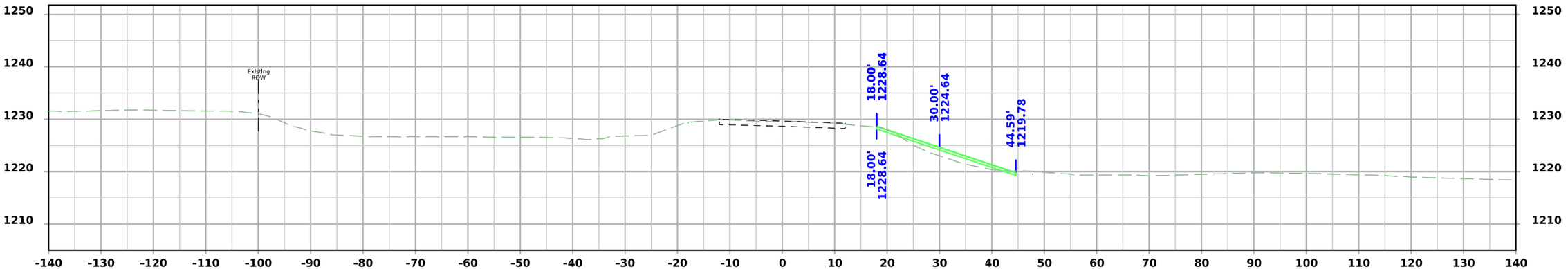




| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER W.4 |
|---|---|---|---|---|---|

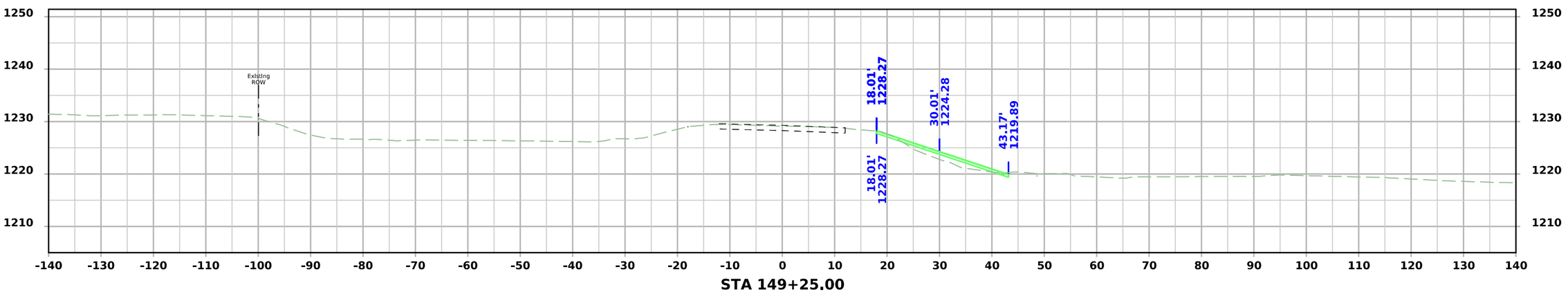
# IA 44




STA 149+75.00




STA 149+50.00

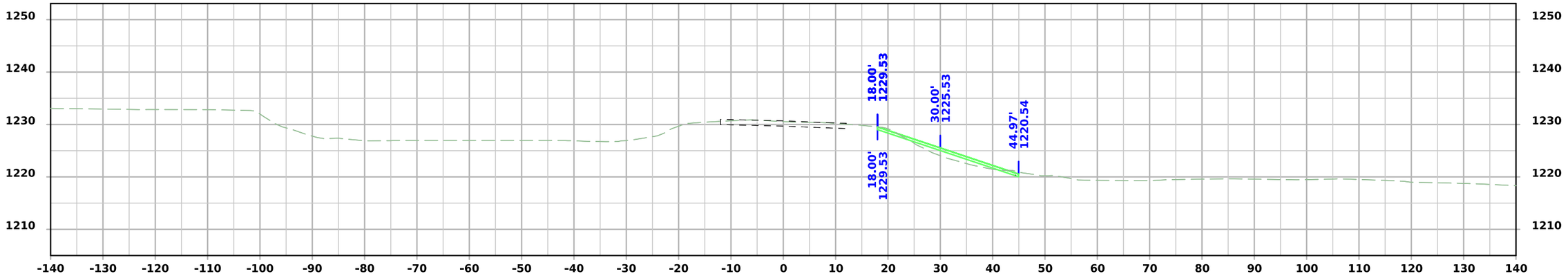



STA 149+25.00

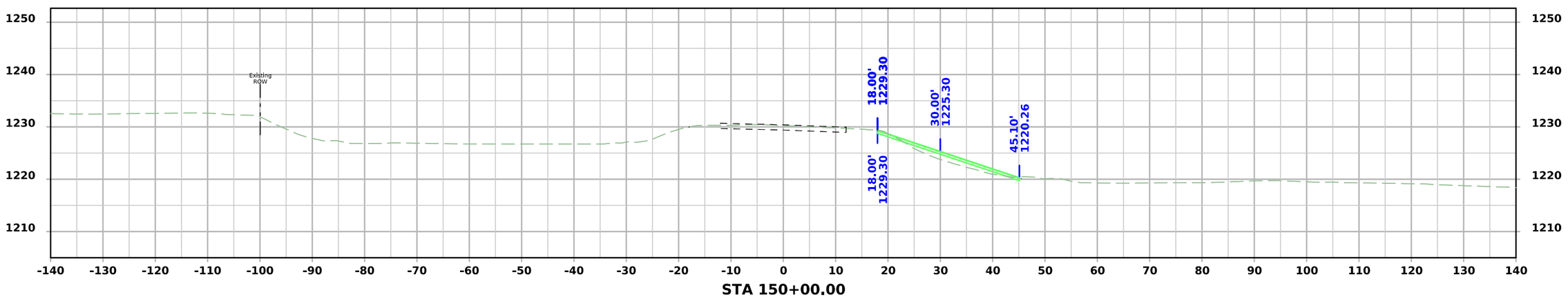
| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER W.5 |
|---|---|---|---|---|---|

10:26:23 AM 10/12/2026 rschmi2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\8304402026\Design\MP-044-4(712)12--76-83_Grading\CADD_Files\Cross_Sections\SHT_W02_83044712Z06.dgn

# IA 44




**STA 150+20.00**

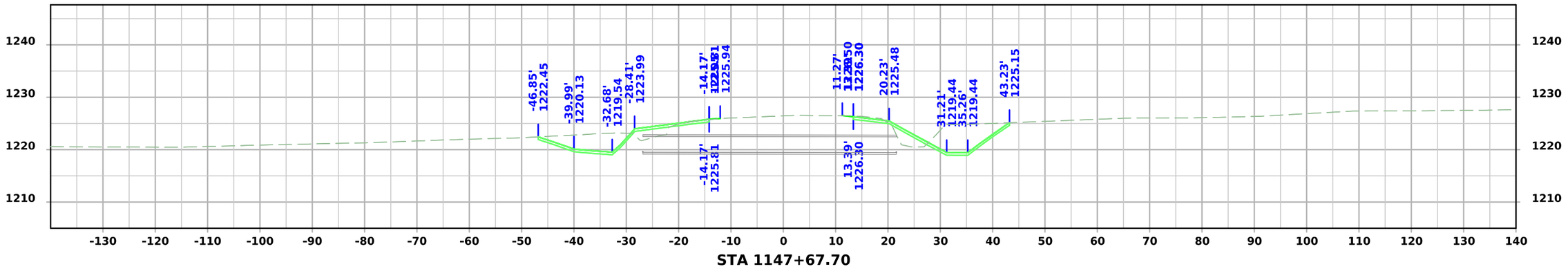



**STA 150+00.00**

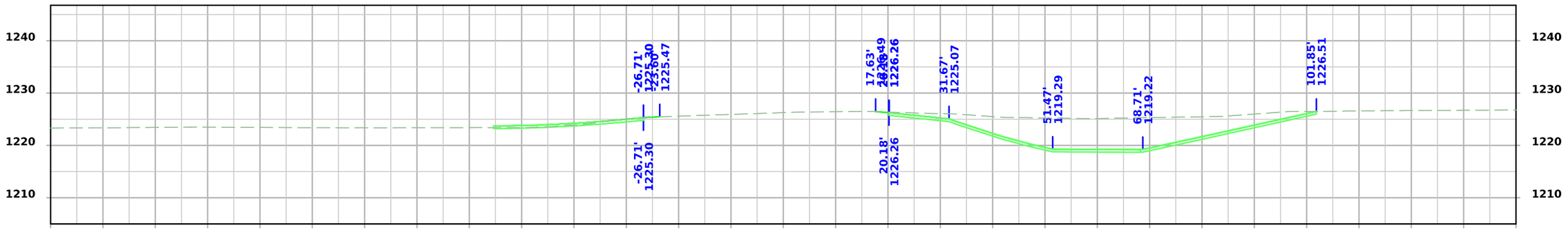
| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER W.6 |
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10:26:24 AM 10/12/2026 rschmi2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\8304402026\Design\MP-044-4(712)12--76-83_Grading\CADD_Files\Cross_Sections\SHT_W02_83044712Z06.dgn

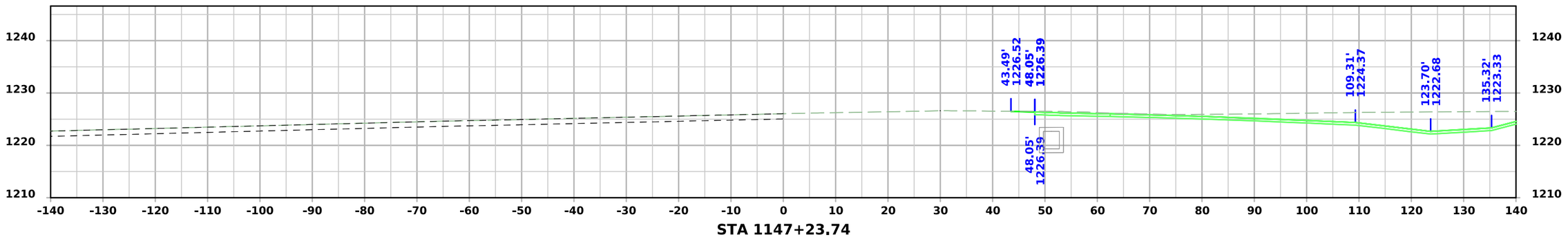
# Dogwood Loop




STA 1147+67.70




STA 1147+50.00

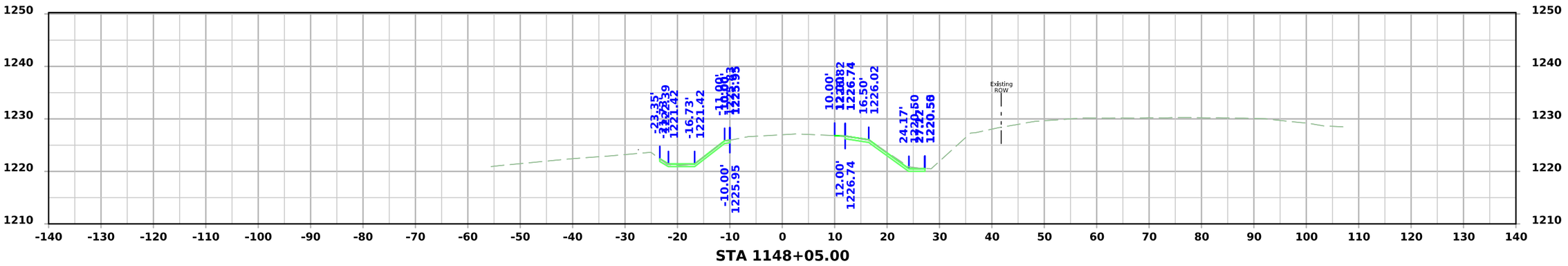



STA 1147+23.74

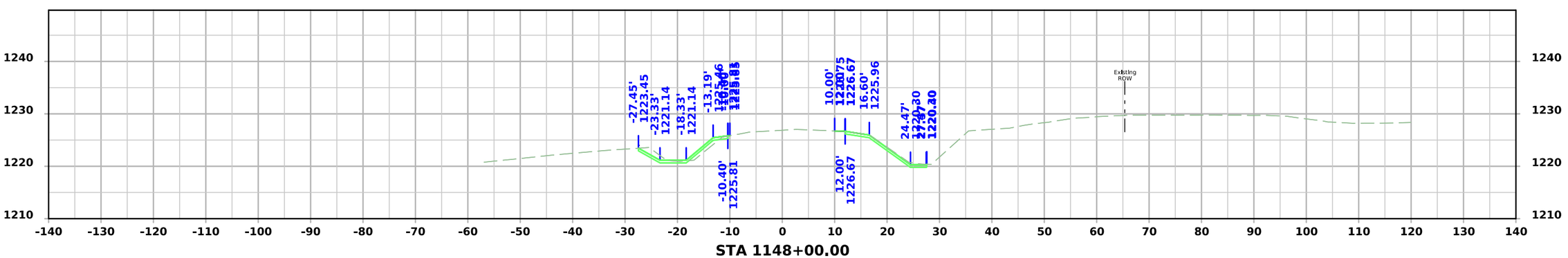
| FILE NO. | ENGLISH | DESIGN TEAM Flattery/Bell/Schinstock/Schmitz | SHELBY COUNTY | PROJECT NUMBER MP-044-4(712)12--76-83 | SHEET NUMBER X.1 |
|---|---|---|---|---|---|

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# Dogwood Loop




STA 1148+05.00




STA 1148+00.00

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

10:43:38 AM 10/12/2026 rschmi2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\8304402026\Design\MP-044-4(712)12--76-83_Grading\CADD_Files\Cross_Sections\SHT_X01_83044712Z06.dgn