Grading
LETTING DATE **Mar 21 2028**

STPN-004-3(039)--2J-13

Calhoun COUNTY

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2 - 8	Project Concept
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 - 3	IA 4
E Sheets	**Side Road Plan and Profile Sheets**
E.1	220th St
E.2	Marshall Ave
E.3	Marengo Ave
G Sheets	**Survey Sheets**
G.1 - 4	Reference Ties and Bench Marks
G.5	Horizontal Control Tab. & Super for all Alignments
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.1	Staging Notes Stage
T Sheets	**Earthwork Quantity Sheets**
T.1	Earthwork Quantity Sheets
W Sheets	**Mainline Cross Sections**
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 33	IA 4
X Sheets	**Side Road Cross Sections**
X.1 - 7	220th St
X.8 - 14	Marshall Ave
X.15 - 27	Marengo Ave

IOWA DOT

REVISIONS

TOTAL
79
PROJECT IDENTIFICATION NUMBER
26-13-004-030
PROJECT NUMBER
STPN-004-3(039)--2J-13
R.O.W. PROJECT NUMBER
STPN-004-3(040)--2J-13

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

Calhoun COUNTY

Grading

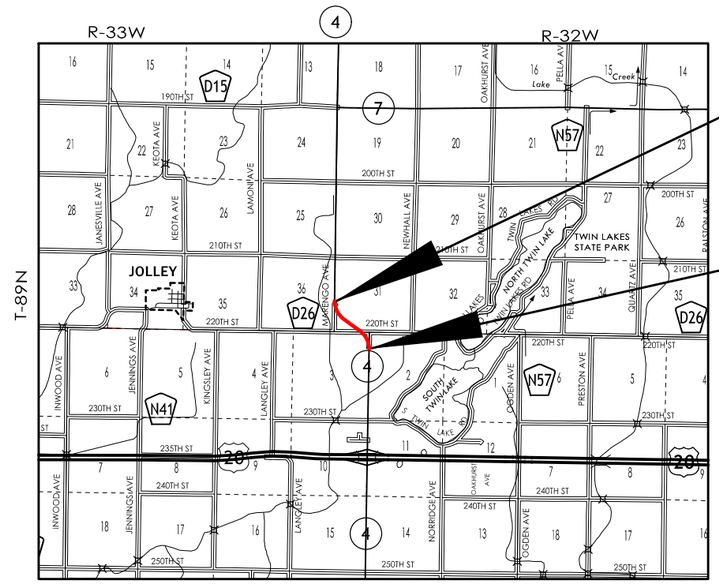
1.3 mi N of US 20 North approx 1 mile

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

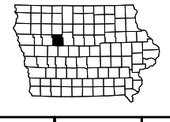
Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

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



END CONSTRUCTION
STA 1397+94.00
Ref. Loc. 69.53

BEGIN CONSTRUCTION
STA 1351+60.00
Ref.Loc. 68.53



LOCATION MAP SCALE
0 1 2 3
Miles

DESIGN DATA RURAL			
2024	AADT	2,980	V.P.D.
20 –	AADT	–	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		27	%
Total Design ESALs		–	

PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN - Date: 09-03-2026

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER A.1

10:39:39 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_A01.dgn

IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: District 3 **DATE:** May 14, 2026

ATTENTION: Jessica Felix **PROJECT:** Calhoun County
STPN-004-3(039)--2J-13
26-13-004-030

FROM: John Bartholomew

BUREAU: Design

SUBJECT: 2026 - NR Project Concept - **FINAL**

The Draft Project Concept Statement was sent out for review and comment with concerns to be resolved by Thursday May 14, 2026. Comments received during the review period have been considered and resolved

DATE OF REVIEW: March 12, 2026 **PARTICIPANTS**: Jessica Felix, Shane Tymkowicz, Dyal Pryor, Justin Pottorff, Bethany Waltersdorf from District 3; Yanxiao Jia, Kyle Schrock, Kent Nicholson, John Bartholomew from Design.

The two alternatives considered were:

1. Foreslope flattening along IA 4 near the town of Jolley between Marengo Avenue and Marshal Avenue and the north/south sections of Marshal and Marengo Ave. connecting to 220th St. will be demolished. Estimated cost **$692,400**

2. Foreslope flattening along IA 4 near the town of Jolley between Marengo Avenue and Marshal Avenue. The north/south sections of Marshal and Marengo Ave. connecting to 220th St. will be demolished, and 220th St. will be realigned to a 90-degree intersection with IA 4 between the reverse curves. Estimated Cost **$1,626,200**

Alternative 1 is the selected alternative. The flattening of the outside of the IA 4 curves near Jolley and the obliteration of Marshal and Marengo Ave. will provide the most immediate solution to potential rollovers for vehicles running off the road through the curves.

PROJECT DATA:
ROUTE: IA 4 From: 1.3 mi N of US 20 north approx 1 mile
LENGTH: 0.9 miles
PLANNING CLASSIFICATION: Access Route
MAINTENANCE SERVICE LEVEL: C
TRAFFIC: 2024 --- 2,980 ADT with 27% trucks
PRESENT PAVEMENT SURFACE: AAC
PRESENT PAVEMENT WIDTH: 24 ft.
PRESENT SHOULDER WIDTH: 6 ft. Effective TYPE: Paved

MP to MP	Dir.	Type	Avg. Str. No.	80% Str. No.	Jt. Str. No.	PCI	IRI	K Value
68.53 to 69.53	1	3	5	4		71	96	

PAVEMENT HISTORY:

ORIGINAL PAVEMENT: 20 ft. wide, PC8
AGGREGATE SOURCE: Correctionvil Gravel CLASS: 2
YEAR CONSTRUCTED: 1947

RESURFACED: 1984, 3 in., 24 ft. wide ACC
2013, 3 in., 24 ft. wide ACC widening
2027, Mill 1.5 in., Fill 1.5 in. High Performance Thin Lift

EXISTING CONDITIONS AND CAUSES OF DISTRESS:

The existing roadway is a 24 ft. wide paved section with 6 ft. effective shoulders, and 2.5:1 foreslopes. Due to the high number of crashes, including 3 fatalities, it is recommended that the foreslopes through the outsides of the s-curves be flattened to 8:1 to mitigate roll-over crashes.

SAFETY CONSIDERATION:

Crash History

During the five-year study period from January 1, 2021 through December 31, 2025, there were 7 crashes including, 1 fatal crashes, and 6 personal property crashes.

PCR Level All Crashes (KABCO): Negligible
PCR Level Severe Crashes (KAB): Medium

In addition to the 1 fatality in the 5 year study period, there have been 3 addition fatalities within the project limits to date, since 2017, including the most recent fatality on February 11, 2026.

FEASIBLE ALTERNATES:

ALTERNATIVE 1 (Foreslope Flattening)

This project is on IA 4, from approximately 1.3 miles north of US 20 north 1 mile (MP 68.53-69.53), a distance of approximately 1 mile.

The existing 2.5:1 foreslopes in the project area will be re-graded and flattened out to 8:1 through the outsides of the two S-Curves, transitioning back to existing foreslope beyond the limits of the curves. There is a residential property in the southeast of the project area within the limits of outside of the southern curve that may be impacted by the flattening of the foreslope.

In addition to the foreslope flattening along IA 4, the two county road connections to 220th St. (Marshal and Marengo Ave.) will be obliterated.

With the obliteration of Marshal and Marengo Ave., the shoulder rumble strips will be extended through the two existing approximately 250 ft gaps at the NB Marshall Ave and SB Marengo Ave intersection approaches at the beginning of the curves.



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

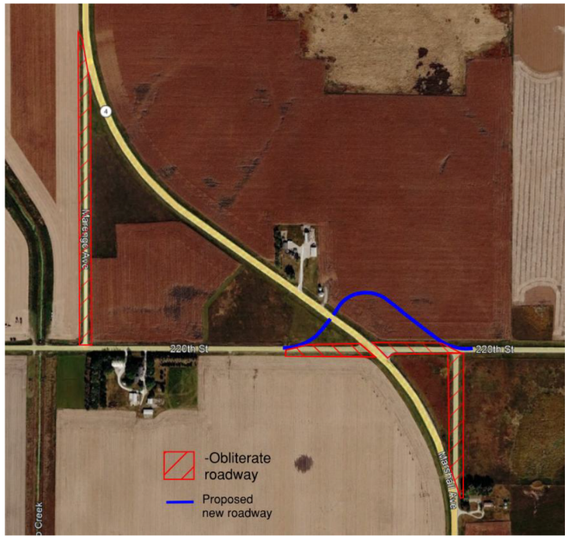
Right of way will be required.

ESTIMATED COST:

Item	Estimated Cost
Embankment in Place	$117,300
Excavation CL 10	89,700
Roadway Obliteration	11,300
Topsoil	218,300
Seeding and Fertilizing	1,700
Erosion Control	50,000
Traffic Control (5%)	32,350
Mobilization (5%)	32,350
M & C (30%)	139,400
Total Alternative No. 1	**$692,400**

ALTERNATIVE 2 (Foreslope Flattening with 220th St. Realignment)

This alternative is similar to Alternative 1, but in addition to the forelsope re-grading and county road obliteration, the intersection of 220th St and IA 4 will be realigned to a 90-degree intersection.



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

Right of way will be required.

ESTIMATED COST:

Item	Estimated Cost
Embankment in Place	$ 242,400
Special Backfill	78,300
PCC 9”	378,500
Obliterate old Roadbed	11,300
Removal of Pavement	49,000
Granular Shoulder	25,500

Topsoil	282,400
Seeding and Fertilizing	7,000
Erosion Control	50,000
ROW	20,000
Traffic control, 5%	80,300
Mobilization, 5%	80,300
M&C, 20%	321,200
Total Alternative No. 2	**$1,626,200**

RECOMMENDATIONS:

It is recommended that the project proceeds with Alternative 1. The estimated cost of this project is $692,400.

Right of way is required.

SPECIAL CONSIDERATIONS

Anticipated traffic volumes during construction do not warrant special construction scheduling.

This will not be a traffic critical project.

An Environmental Research Study Area (ERSA) has been developed for this project and can be viewed in the concept attachments.

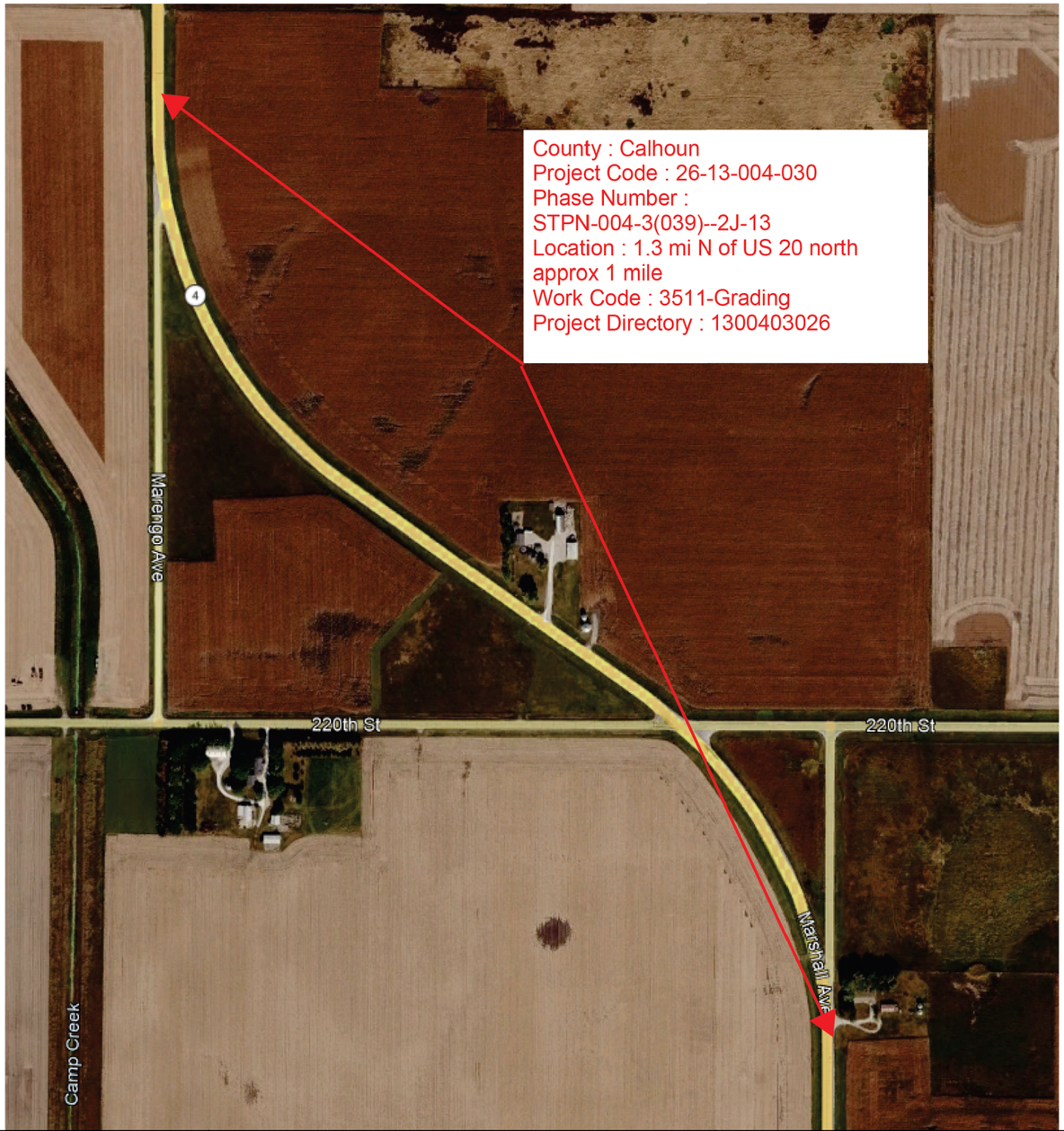
The Location and Environment Bureau has not reviewed this project at this time. Once their review is completed, comments will be incorporated into the final concept statement.

FUNDS PROGRAMMED:

This proposed NR project is not yet in the 2026-2030 program. It has been identified by the District 3 office for construction in FY 2028. A schedule of events for plan development will be determined following approval of the Project Concept.

JEB:
cc:

C. Purcell	K. D. Nicholson	Y. Jia
M. Dell	C. Carter	M. Nop
M. A. Swenson	D. E. Sprengeler	C. C. Poole
S. Majors	A. Poole	K. Brink
D. L. Newell	D. Breitbach	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
C. Pelton	S. Anderson	D. Stokes
J. Holst	R. Harris	B. Dolan
T. Lovan	M. Solberg	T. Gustafson
D. Dudley	L. Armstrong	B. Smith
A. Knight	A. Yates	K. Schrock
C. Brakke	A. Buss	D. Zeimen
D. Evans		
J. Klemme	S. Tymkowicz	
J. Becker	D. Pryor	M. Thayer
S. Tracy	B. Strueker	J. Pottorff
B. Waltersdorf	C. Schwienebart	A. Wiertzema





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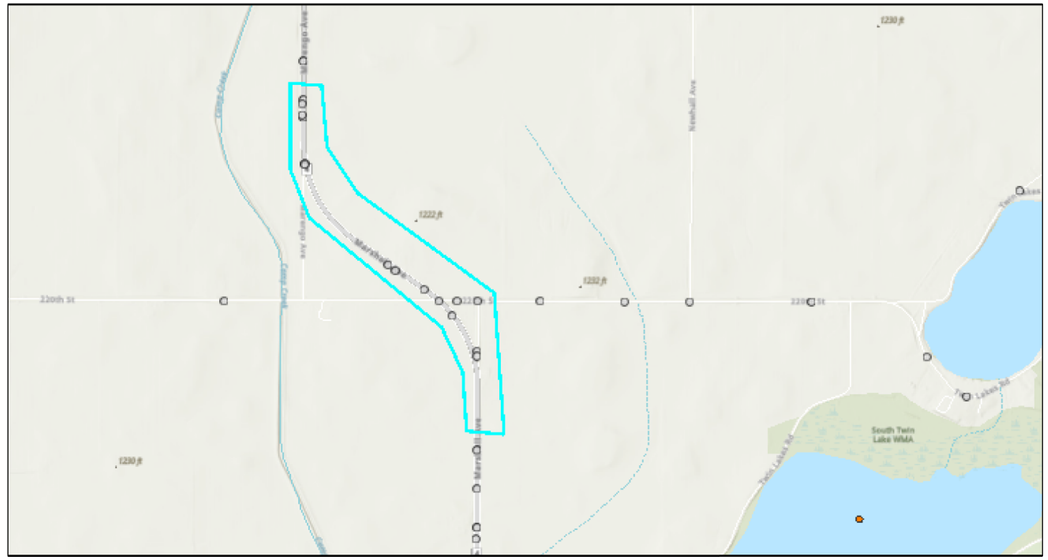
Iowa Crash Analysis Tool
Quick Report
2021-2025

Crash Severity	7
Fatal Crash	1
Suspected Serious Injury Crash	0
Suspected Minor Injury Crash	0
Possible/Unknown Injury Crash	0
Property Damage Only	6

Injury Status Summary	6
Fatalities	1
Suspected serious/incapacitating	0
Suspected minor/non-incapacitating	0
Possible (complaint of pain/injury)	2
Uninjured	0
Unknown	0
Not Reported	3

Property/Vehicles/Occupants	
Property Damage Total (dollars):	150,800.00
Average (per crash dollars):	21,542.86
Total Vehicles:	8.00
Average (per crash):	1.14
Total Occupants:	11.00
Average (per crash):	1.57

Average Severity	
Fatalities/Fatal Crash:	1.00
Fatalities/Crash:	0.14
Injuries/Crash:	0.29
Major Injuries/Crash:	0.00
Minor Injuries/Crash:	0.00
Possible/Unknown Injuries/Crash:	0.29



05/07/2026

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER A.6	

7:44:43 AM 8/19/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_A01.dgn

Major Cause			7
Animal	3	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	0
Operating vehicle in an reckless/erratic/care...	0	Followed too close	0
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa...	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e...	0	Driver Distraction: Talking on a hand-held d...	0
Driver Distraction: Talking on a hands free ...	0	Driver Distraction: Adjusting devices (radio...	0
Driver Distraction: Other electronic device ...	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f...	0
Driver Distraction: Inattentive/lost in thou...	0	Driver Distraction: Other interior distracti...	0
Driver Distraction: Exterior distraction	0	Ran off road - right	2
Ran off road - straight	0	Ran off road - left	1
Lost control	1	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	0
Unknown	0	Not reported	0
Other: No improper action	0		

Iowa Crash Analysis Tool
Quick Report
2021-2025

Time of Day/Day of Week													
Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reported	Total
Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Thursday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Friday	0	0	0	0	1	0	0	0	0	1	2	1	0	5
Saturday	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	0	0	0	1	0	0	0	0	1	3	1	0	7

Manner of Crash Collision	7
Non-collision (single vehicle)	6
Head-on (front to front)	1
Rear-end (front to rear)	0
Angle (oncoming left turn)	0
Broadside (front to side)	0
Sideswipe (same direction)	0
Sideswipe (opposite direction)	0
Rear to rear	0
Rear to side	0
Not reported	0
Other	0
Unknown	0

Surface Conditions	7
Dry	0
Wet	3
Ice/frost	1
Snow	0
Slush	0
Mud/dirt	0
Water (standing or moving)	0
Sand	0
Oil	0
Gravel	0
Not reported	3
Other	0
Unknown	0

Fixed Object Struck			8
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid...	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	8

Iowa Crash Analysis Tool
Quick Report
2021-2025

Driver Age/Driver Gender					
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	**Total**
< 14	0	0	0	0	0
= 14	0	0	0	0	0
= 15	0	0	0	0	0
= 16	0	0	0	0	0
= 17	0	0	0	0	0
= 18	0	0	0	0	0
= 19	1	0	0	0	1
= 20	0	0	0	0	0
>= 21 and <= 24	1	0	0	0	1
>= 25 and <= 29	0	1	0	0	1
>= 30 and <= 34	0	1	0	0	1
>= 35 and <= 39	0	0	0	0	0
>= 40 and <= 44	0	0	0	0	0
>= 45 and <= 49	0	0	0	0	0
>= 50 and <= 54	0	0	0	0	0
>= 55 and <= 59	0	0	0	0	0
>= 60 and <= 64	0	2	0	0	2
>= 65 and <= 69	1	0	0	0	1
>= 70 and <= 74	0	0	0	0	0
>= 75 and <= 79	0	0	0	0	0
>= 80 and <= 84	0	0	0	0	0
>= 85 and <= 89	0	1	0	0	1
>= 90 and <= 94	0	0	0	0	0
>= 95	0	0	0	0	0
Not reported	0	0	0	0	0
Unknown	0	0	0	0	0
Total	3	5	0	0	8

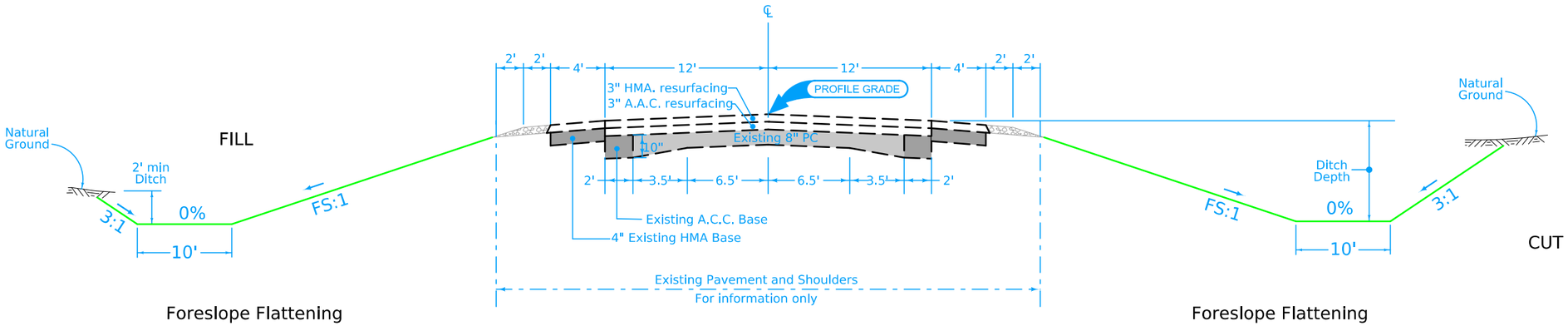
Alcohol Test Given	**8**
None	7
Blood	1
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Given	**8**
None	7
Blood	1
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	**8**
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	8
Other	0

Drug/Alcohol Related	**7**
Drug	1
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	6

G_2_Grade
MODIFIED

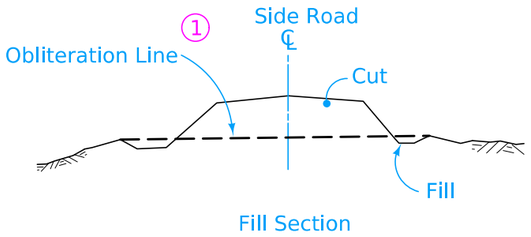


LOCATION				
ROAD IDENTIFICATION	STATION TO STATION		Side	FS
IA 4	1350+60.00	1352+60.08	RT	3.3 - 8
IA 4	1351+58.10	1368+30.05	RT	8
IA 4	1368+30.05	1370+30.00	RT	8 - 5
IA 4	1379+27.00	1381+27.34	LT	4 - 8
IA 4	1381+28.00	1396+93.81	LT	8
IA 4	1396+93.81	1398+94.00	LT	8 - 3.3

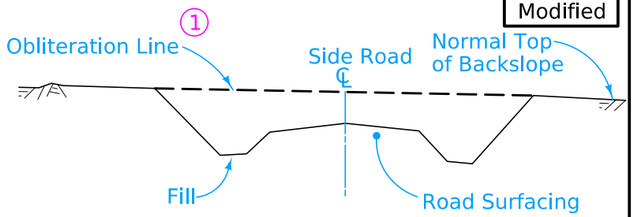
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

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

4302
Modified



Fill Section



Cut Section

1 The upper layer to be suitable for vegetation (grass or crops).
Refer to CS sheets for topsoil thickness

Note:
The work of obilterating or reshaping old roadbeds shall be done at the direction of the Engineer.

TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

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

- E1 — ***EL1D, Calhoun County REC - Quality D***
- ***PPB, MidAmerican Energy***
- FO2 — ***FO2D, MidAmerican Energy - Quality D***
- W — ***WL1D, Twin Lake Utilities - Quality D***
- FO — ***FO1D, Windstream Communications - Quality D***
- T1 — ***TL1D, Windstream Communications - 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

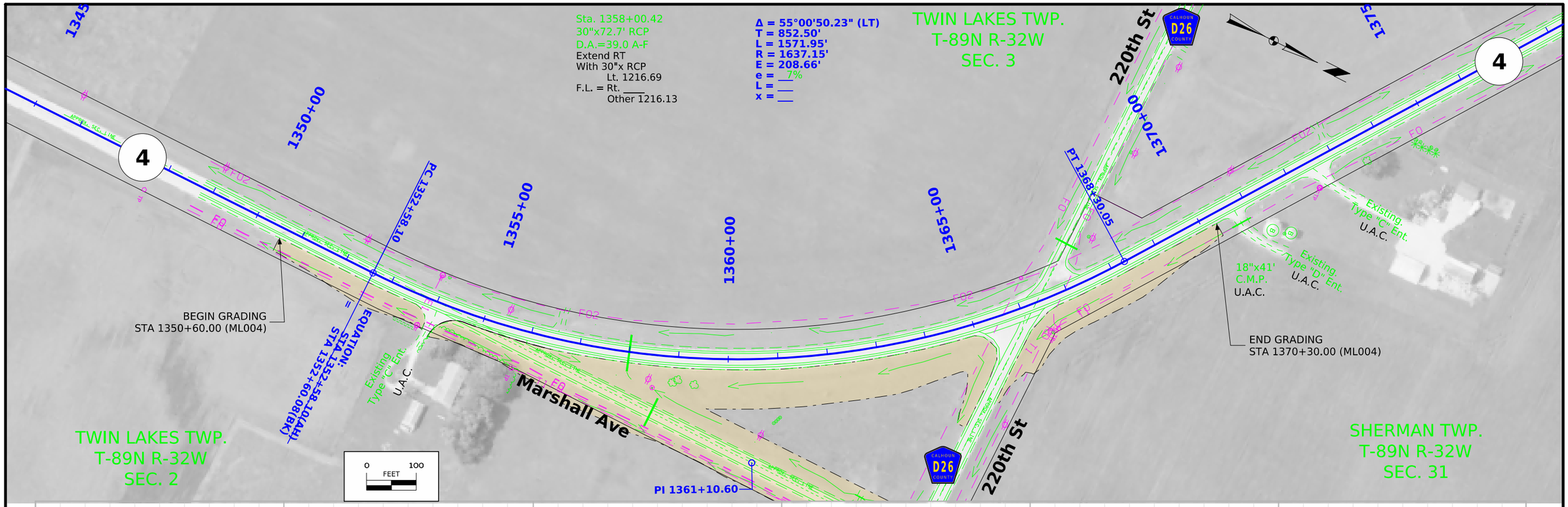
- Proposed Right-of-Way Symbol
- Proposed Right-of-Way Line
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary) Symbol
- Easement (Temporary) Line
- Easement
- C/A Access Control
- Property Line Symbol
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER D.1

12:32:47 PM 8/17/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_D01.dgn



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER D.2

10:19:13 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_D02.dgn

PI 1389+76.60

1385+00

1390+00

Marengo Ave

1395+00

BUTLER TWP.
T-89N R-32W
SEC. 36

EQUATION:
STA 1381+28.00(AH) =
STA 1381+27.34(BK)

1380+00

RESUME GRADING
STA 1379+27.00 (ML004)

F02

F0

PC 1381+28.00

PT 1396+93.81

END GRADING
STA 1398+94.00 (ML004)

1400+00

1405+00

4

4

18"x25'
C.M.P.
U.A.C.

SHERMAN TWP.
T-89N R-32W
SEC. 31

Sta. 1388+09.74
36"x72' RCP
D.A.=94.0 A-F
Extend LT
With 36"x RCP
Lt. --
F.L. = Rt. 1215.12
Other 1214.72

Δ = 54°47'53.10" (RT)
T = 848.60'
L = 1565.81'
R = 1637.18'
E = 206.86'
e = 7%
L = ___
x = ___

0 100 FEET

1260
1250
1240
1230
1220
1210
1200
1190
1180
1170

-0.91% LT Ditch Grade
-0.60% LT Ditch Grade
+0.59% LT Ditch Grade
+1.68% LT Ditch Grade
+0.17% LT Ditch Grade

LT +27
1220.87

LT +00
1218.40

LT +10
1214.72

LT +00
1219.40

LT +25
1221.50

LT +94
1221.78

1375+00 1380+00 1385+00 1390+00 1395+00 1400+00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER D.3

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SEC. 36

SHERMAN TWP.
T-89N R-32W
SEC. 31

TWIN LAKES TWP.
T-89N R-32W
SEC. 3

SEC. 2

Marengo Ave

Marshall Ave

220th St

4

BEGIN GRADING
STA 346+90.00
(SR220W)

END GRADING
STA 347+65.00
(SR220W)

END GRADING
STA 368+53.92
(SR220E)

RESUME GRADING
STA 371+22.93
(SR220E)

END GRADING
STA 372+46.74
(SR220E)

END GRADING
STA 369+28.97
(SR220E)

POB 344+37.66

POB 365+35.40

Existing
Safety Dike
Used as entance
U.A.C.

Existing
Safety Dike
Remove

STA 365+07.41
24"x48'
Conc. Pipe
U.A.C.

STA 374+94.29
30"x54.2'
Conc. Pipe
U.A.C.

0 100
FEET

345+00 350+00 355+00 360+00 365+00 370+00 375+00

1260 1250 1240 1230 1220 1210 1200 1190 1180 1170

+1.32% LT
Ditch Grade

LT +90
1212.56

LT +65
1213.55

-0.70% LT DG

-0.34% RT DG

RT +19
1219.18

LT +50
1219.93

LT +05
1219.54

RT +43
1218.76

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER E.1

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TWIN LAKES TWP.
T-89N R-32W
SEC. 3

SHERMAN TWP.
T-89N R-32W
SEC. 31

TWIN LAKES TWP.
T-89N R-32W
SEC. 2

4

4

2355+00

2360+00

12"x20.2'
Conc. Pipe
Remove

Marshall Ave

Obliterate

220th St

POB 2352+58.10

POE 2364+78.92

STA 2358+83.51
30"x60.7'
Conc. Pipe
Remove

0 100
FEET

CALHOUN COUNTY D26

Marshall Ave

1260 1250 1240 1230 1220 1210 1200 1190 1180 1170

2350+00 2355+00 2360+00 2365+00 2370+00 2375+00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER E.2

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STA 3375+30.26
24"x53.6'
Conc. Pipe

STA 3375+82.69
24"x37.4'
C.M.P.
Remove

BUTLER TWP.
T-89N R-32W
SEC. 36

220th St

3375+00

3380+00

3385+00

3390+00

3395+00

Marengo Ave

Obliterate

F02

F0

4

0 100 FEET

Marengo Ave

1260 1250 1240 1230 1220 1210 1200 1190 1180 1170

3375+00 3380+00 3385+00 3390+00 3395+00 3400+00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER E.3

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SURVEY INDEX

County : Calhoun
Project Code : 26-13-004-030
Phase Number : STPN-004-3(039)--2J-13
Location : 1.3 mi N of US 20 north approx 1 mile
Work Code : 3511-Grading
Project Directory : 1300403026
Project Manager : Shane Tymkowicz

Survey Personnel

Daniel Duncan – Survey Party Chief

Date(s) of Survey

Begin Date	06/1/2026
End Date	06/18/2026

General Information

This survey is for IA 4 approx. 1.3 Miles North of US 20 for approx. 1 mile. 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.

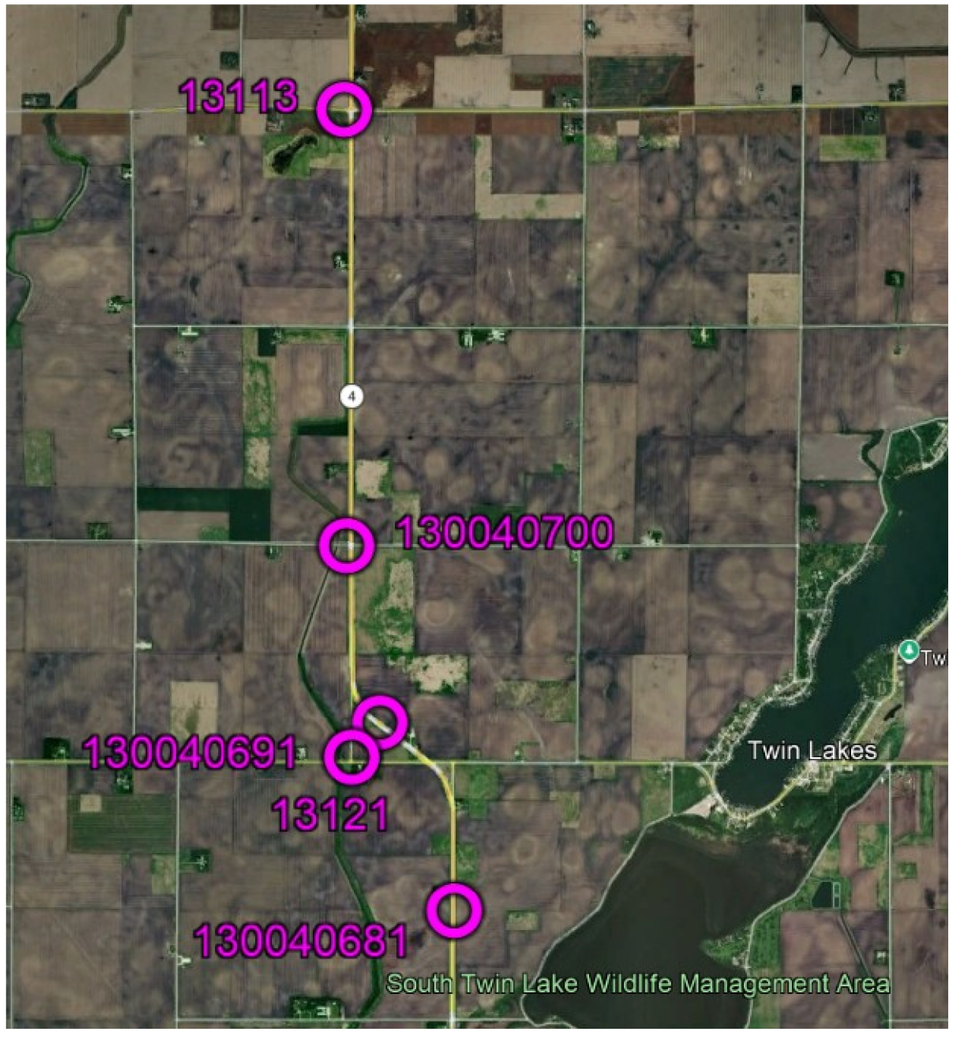
PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 04 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for Iowa Hwy 4 was provided by the District 3 Land Surveyor.

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 04 (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.

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 04 (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 04 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code-Description
13113	8593949.51	14541615.80	1217.90	CP FOUND CALHOUN COUNTY MONUMENT AS DESCRIBED
13121	8578418.32	14541842.05	1215.67	CP FOUND CALHOUN COUNTY MONUMENT AS DESCRIBED
130040681	8574757.69	14544313.71	1215.76	CP FOUND 4X4 CM SET DIMPLE IN REBAR
130040691	8579267.89	14542518.22	1221.49	CP FOUND 4X4 CM SET DIMPLE IN REBAR
130040700	8583501.04	14541706.99	1214.89	CP FOUND IA DOT ROW RAIL SET DIMPLE IN BALL

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	ML004	1238+70.60 R1	8565725.27	14544236.00															
2	ML004							1352+58.10 R2	8577114.72	14544262.46	1361+10.60 R2	8577967.22	14544264.44	1368+30.05 R2	8578457.64	14543567.13			
4	ML004							1381+28.00 R3	8579203.94	14542506.00	1389+76.60 R3	8579692.12	14541811.88	1396+93.81 R3	8580540.71	14541810.65			
6	ML004							1490+00.80 R4	8589849.23	14541797.16	1493+00.87 R4	8590149.31	14541796.72	1496+00.95 R4	8590449.38	14541795.20			
7	ML004	1528+02.30 R5	8593652.11	14541778.92															
1	SR220W	344+37.66 R1	8578340.28	14541517.64															
1	SR220W	366+37.66 R1	8578337.98	14543717.64															
1	SR220E	366+35.40 R1	8578336.47	14543719.32															
1	SR220E	380+35.40 R1	8578334.08	14545119.32															
1	SRMarshall	2352+58.10 R1	8577114.72	14544262.46															
1	SRMarshall	2364+78.92 R1	8578335.54	14544265.30															
1	SRMarengo	3374+93.06 R1	8578339.97	14541813.84															
1	SRMarengo	3396+93.81 R1	8580540.71	14541810.65															
1	ENTR1354	0+00.00	8577262.86	14544256.09															
1	ENTR1354	1+02.74	8577261.12	14544358.82															

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	ML004										55°00'50.23"	852.500	1571.950	1637	208.660	
C2	ML004										54°47'53.10"	848.600	1565.810	1637	206.860	
C3	ML004										00°12'29.18"	300.070	600.150	165234	0.270	

108-23A
08-01-08

TRAFFIC CONTROL PLAN

IA 4

Maintain two lanes of traffic at all times during construction.

Entrances

Maintain access at all times during construction

108-26A
08-01-08

STAGING NOTES

STG 1

Install TBR along outside of both curves.
Obliterate Marshall Ave and Marengo Ave.

STG 2

Flatten the foreslope through the outside of the S Curves.

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
			No travel restriction expected									

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
Project Total																						
	12,481	11,971	12,481	11,971	12,306	12,306	15,998	-4,027	0	0	12,481	10,172	14,241	-1,760								
Project Total Totals:	12,481	11,971	12,481	11,971	12,306	12,306	15,998	-4,027	0	0	12,481	10,172	14,241	-1,760								

Excavation Class 10, Roadway and Borrow	11,971
Embankment in Place	4,027
Topsoil strip, Salvage and Spread	12,481
Topsoil Contractor Furnish	1,760

Based on 12" stripping and 8" Placement

#

FILE NO. | DESIGN TEAM Strum\Janus | CALHOUN COUNTY | PROJECT NUMBER STPN-004-3(039)--2J-13 | SHEET NUMBER T.1

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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

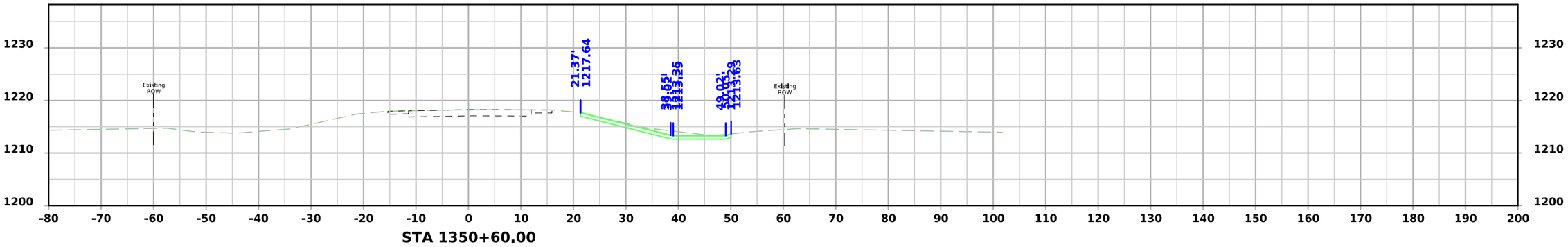
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LEGEND AND INFORMATION SHEET

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

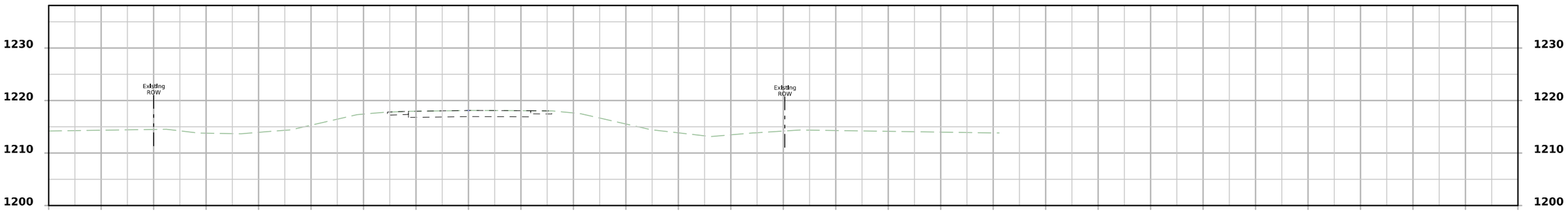
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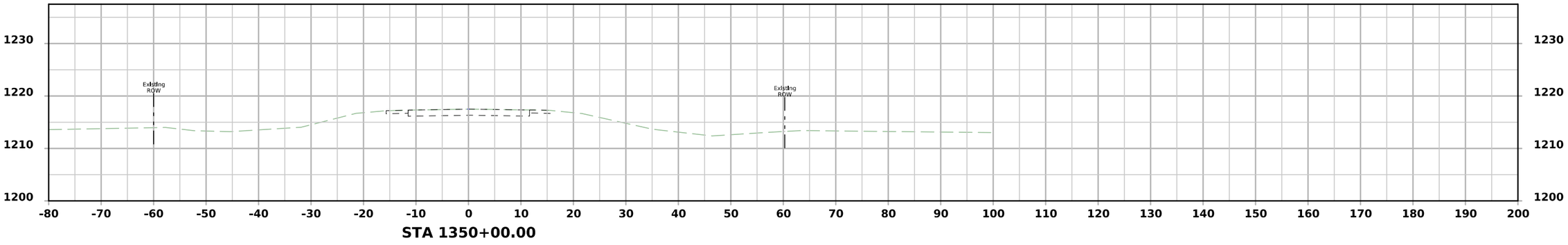
IA 4



STA 1350+60.00



STA 1350+50.00

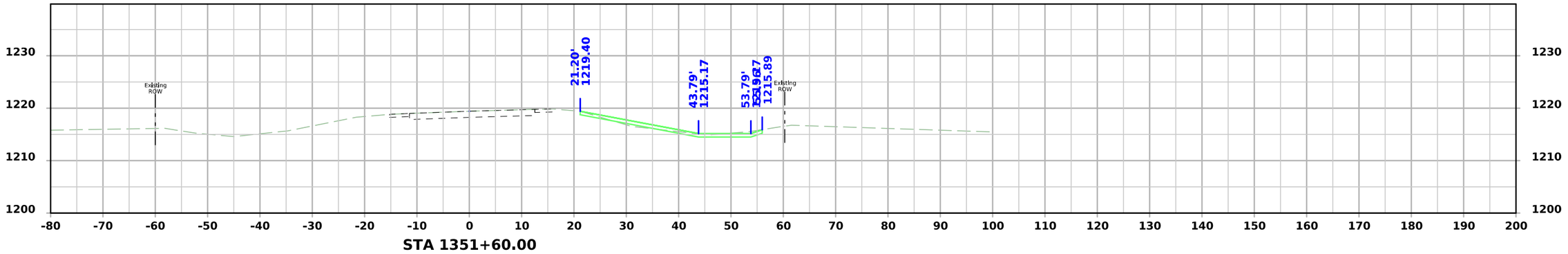


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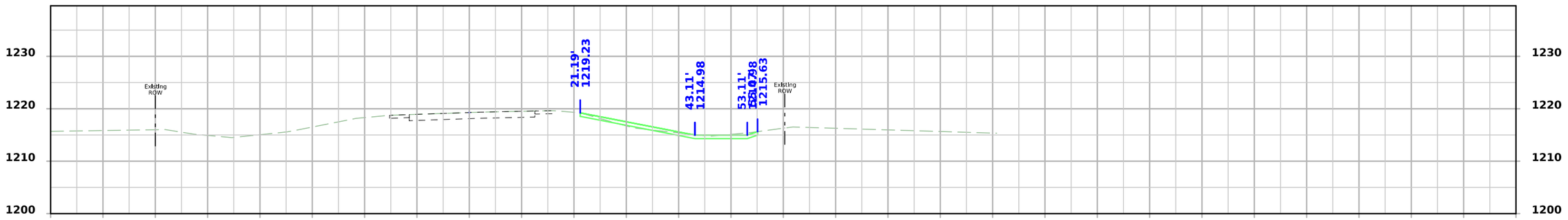
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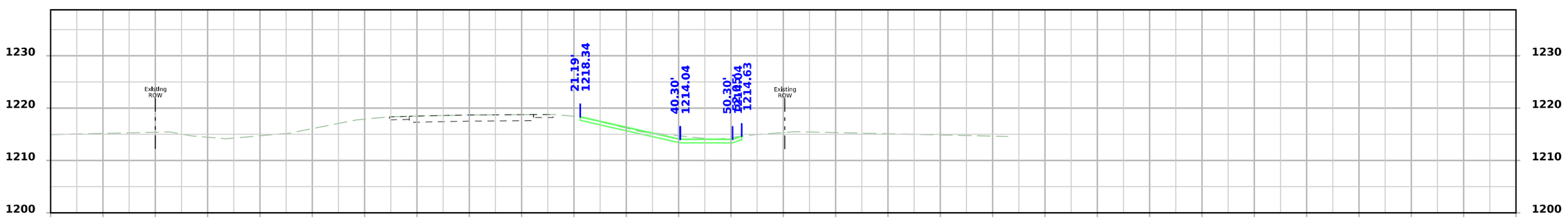
IA 4



STA 1351+60.00



STA 1351+50.00

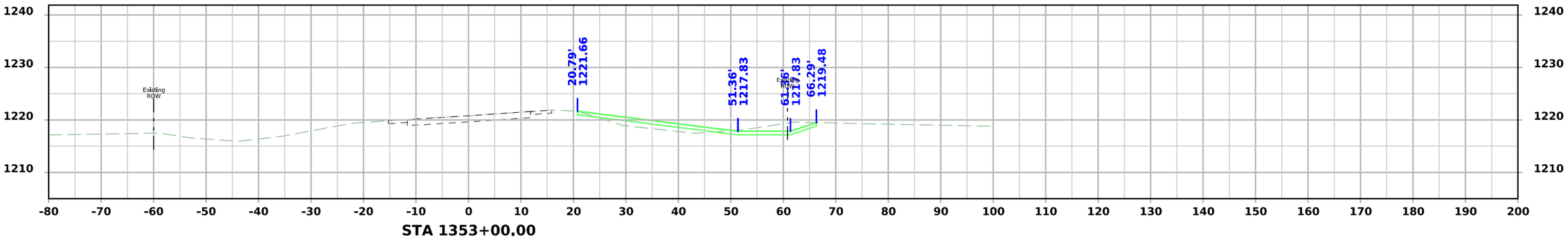


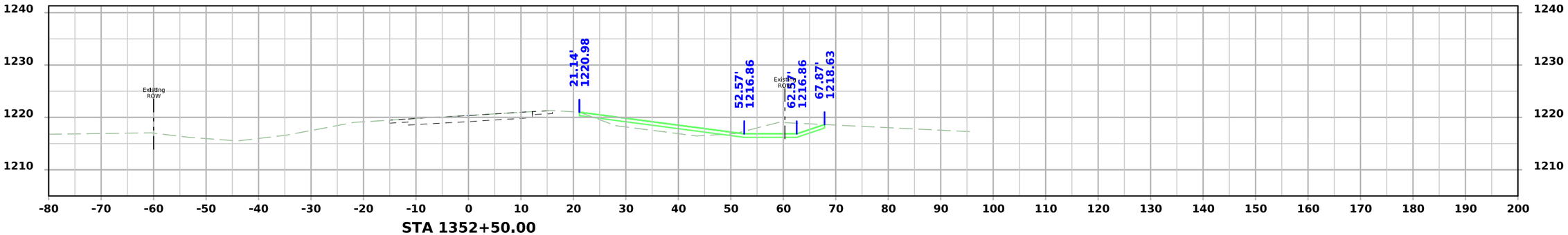
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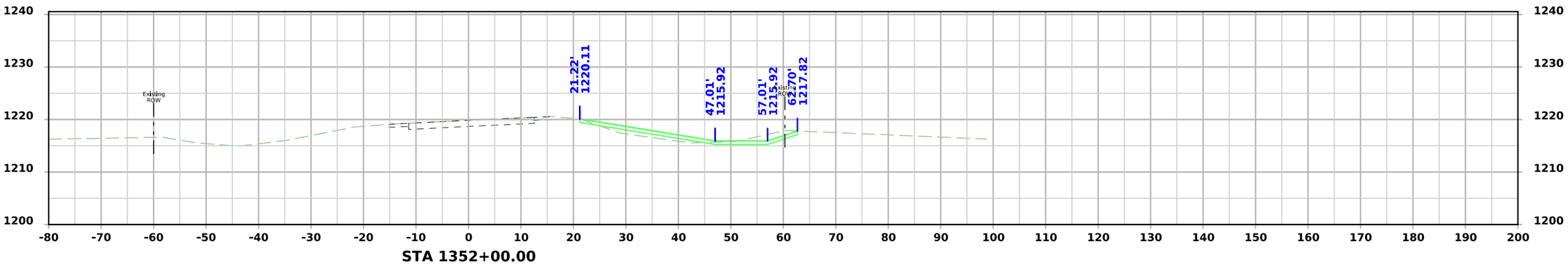
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IA 4



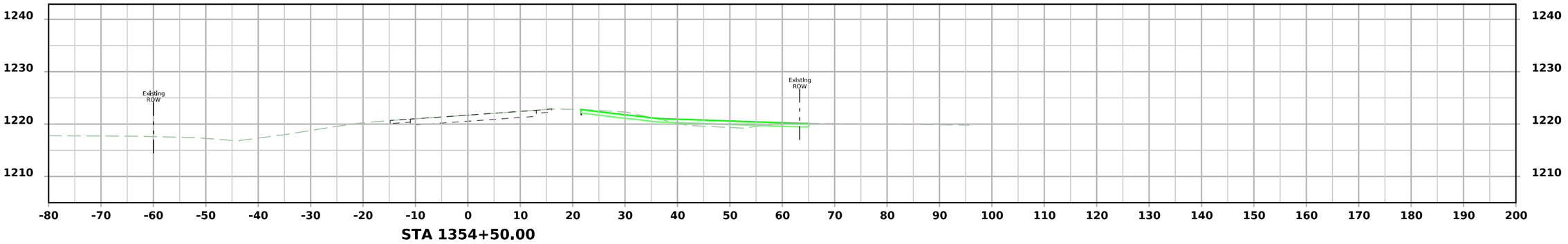


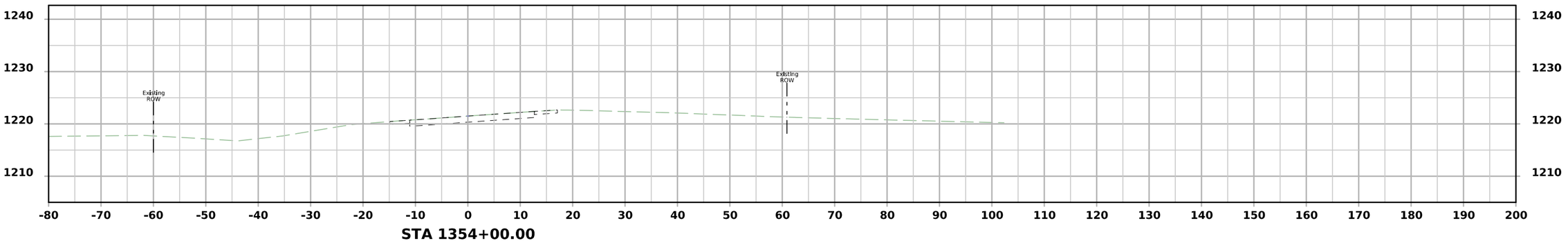


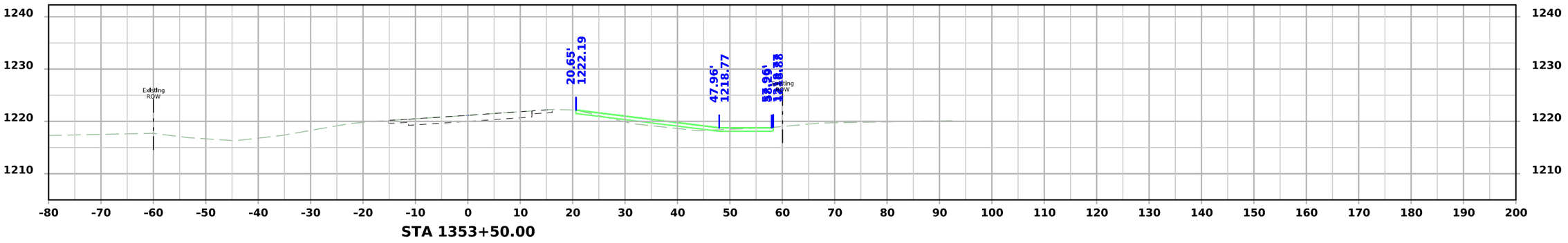
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IA 4



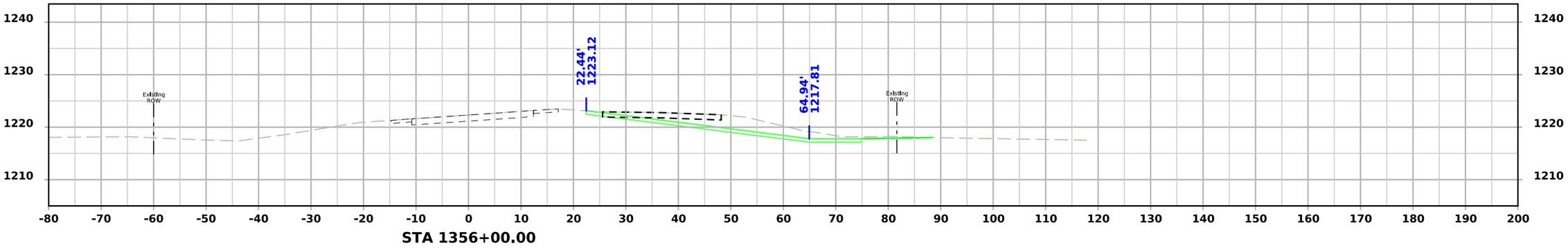


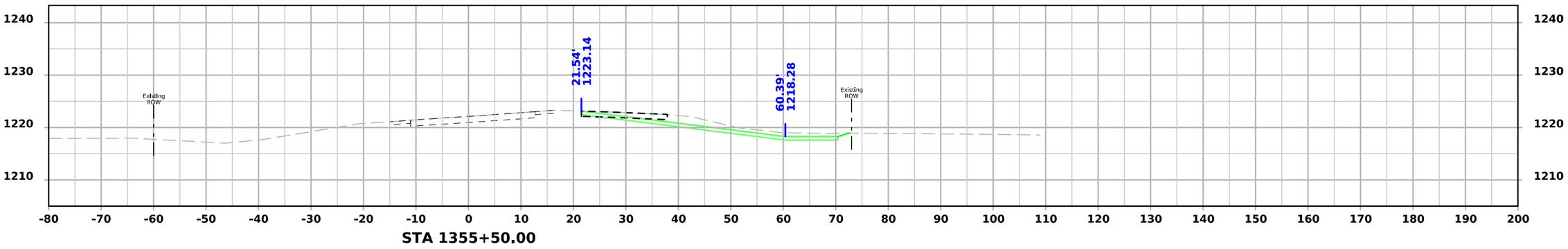


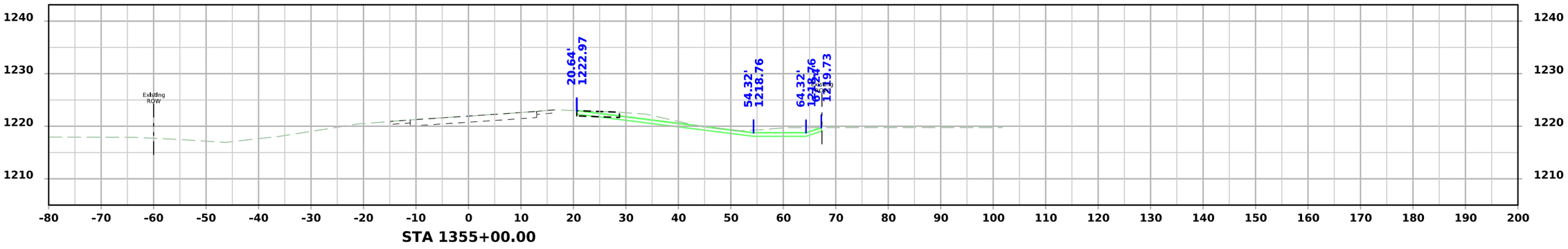
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IA 4



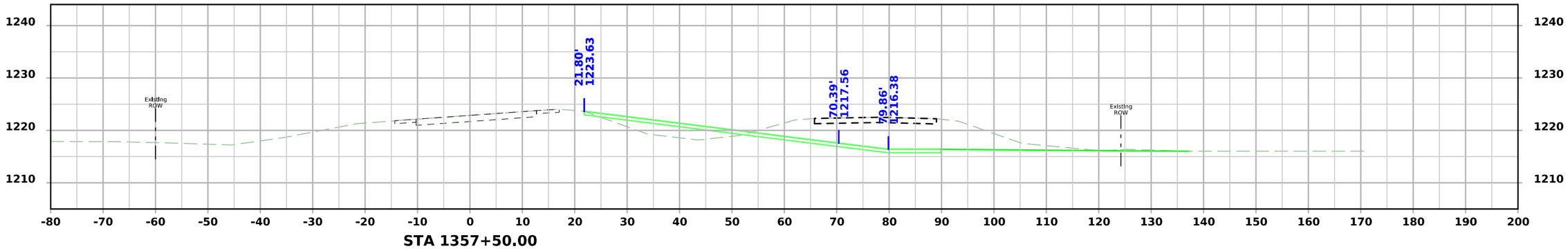




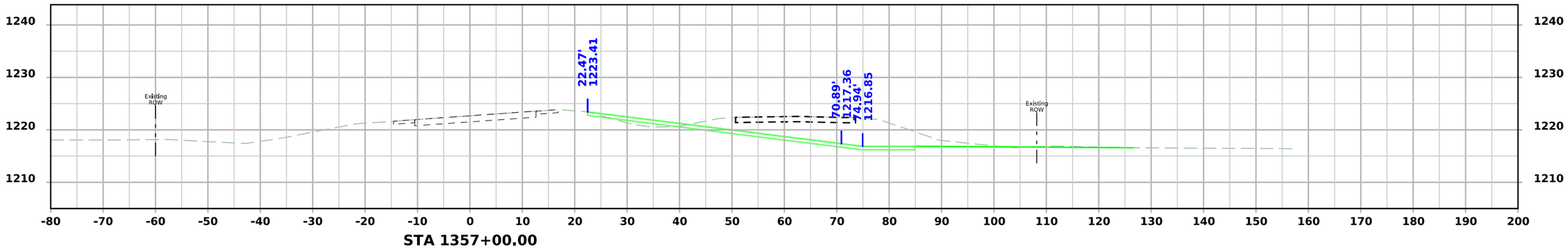
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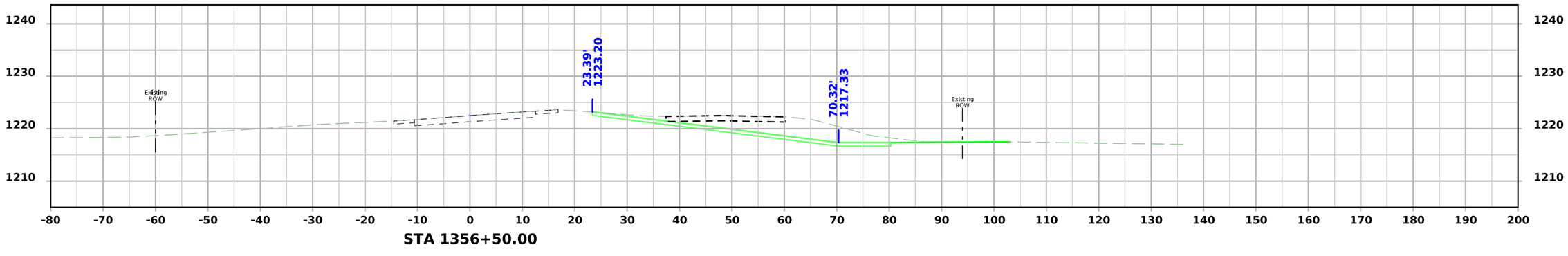
IA 4



STA 1357+50.00



STA 1357+00.00

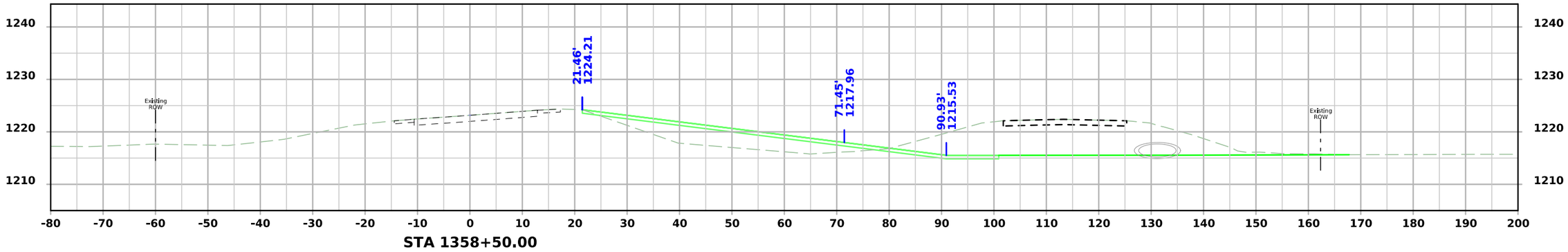


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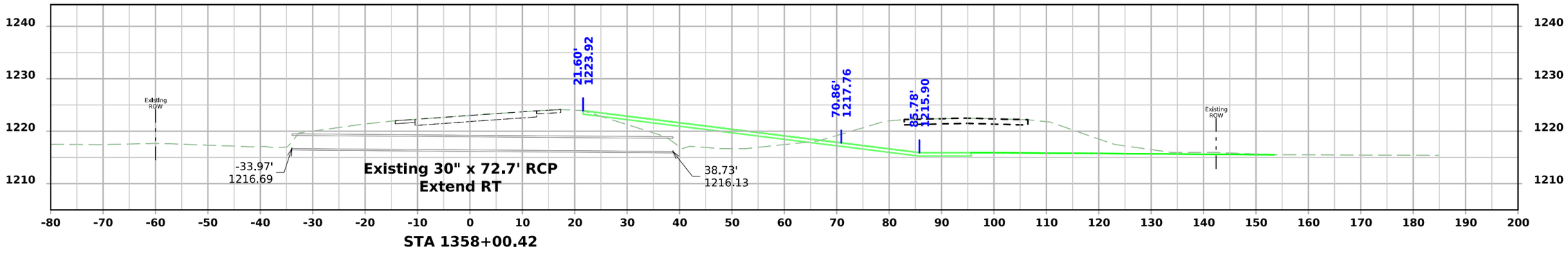
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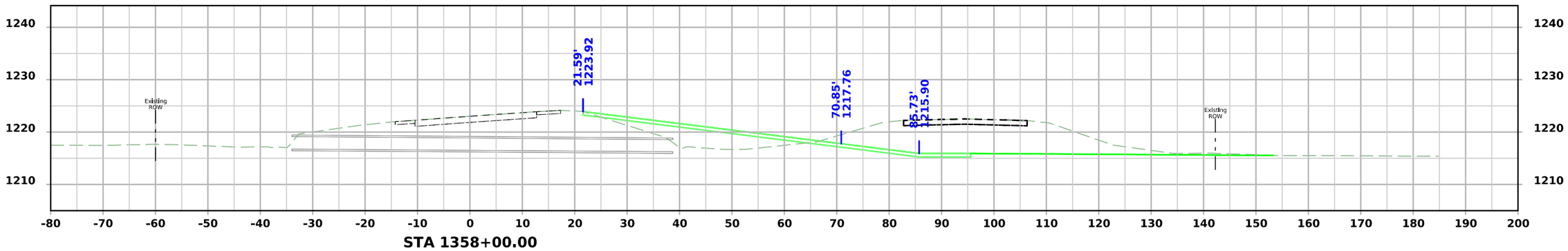
IA 4



STA 1358+50.00



STA 1358+00.42

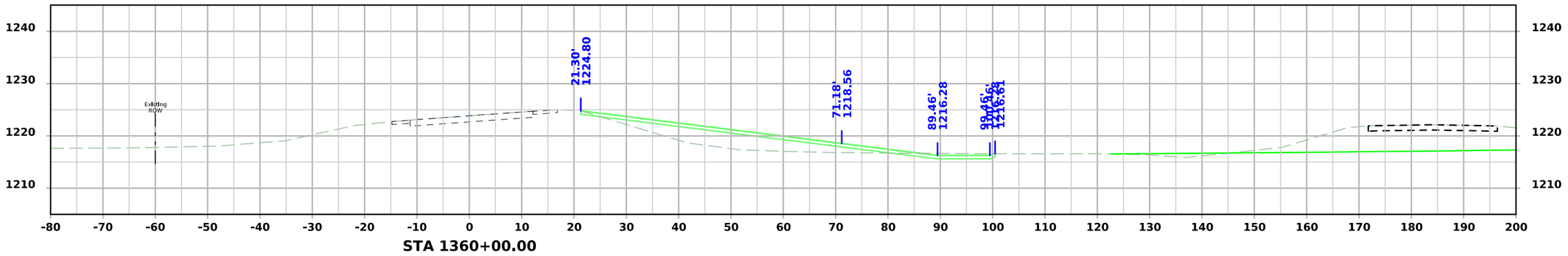


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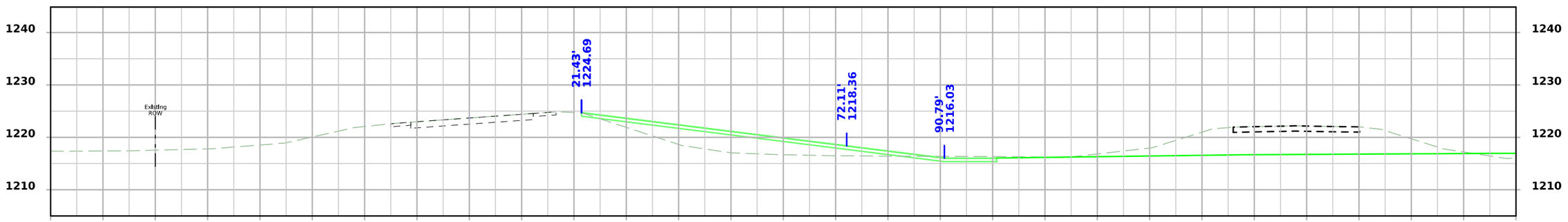
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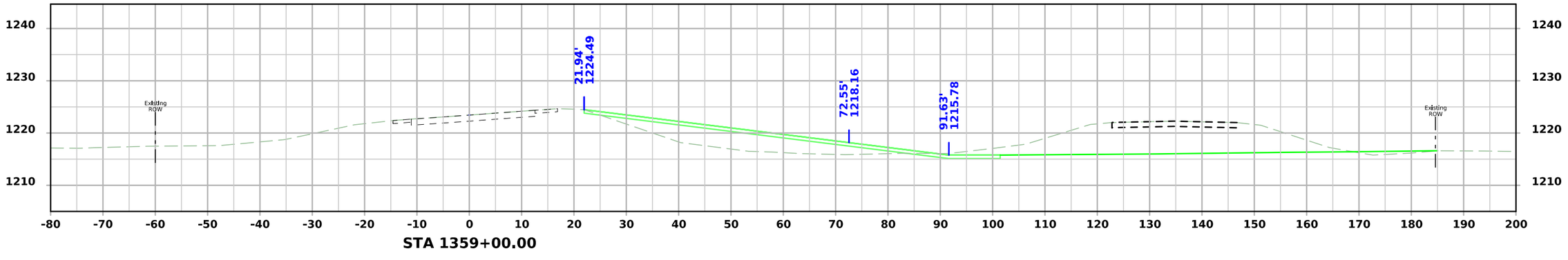
IA 4



STA 1360+00.00



STA 1359+50.00

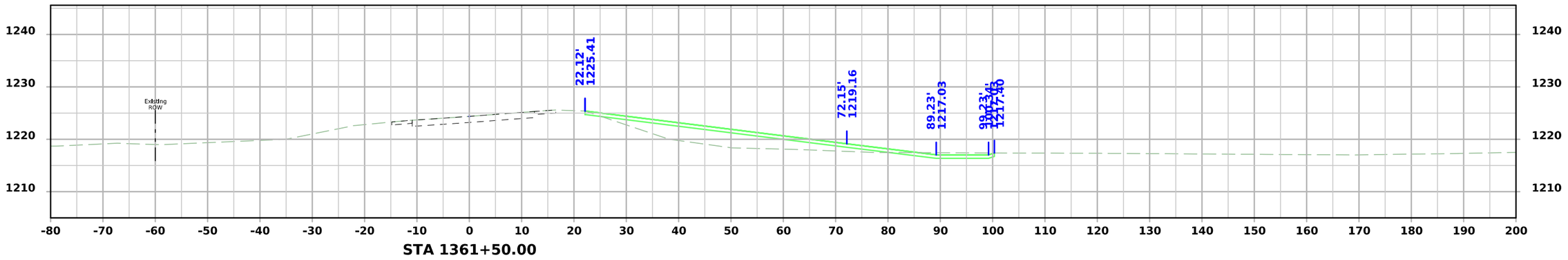


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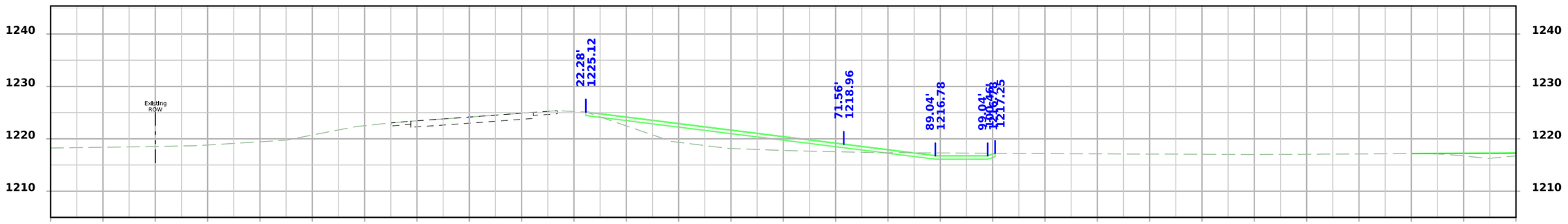
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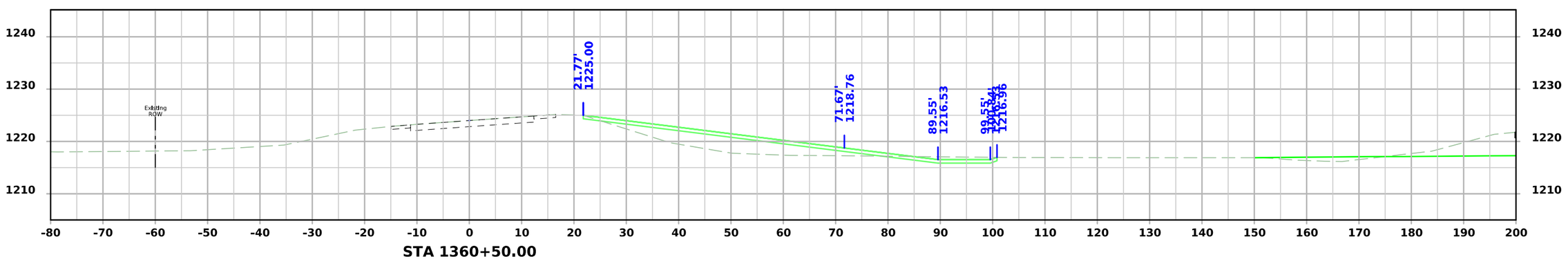
IA 4



STA 1361+50.00



STA 1361+00.00

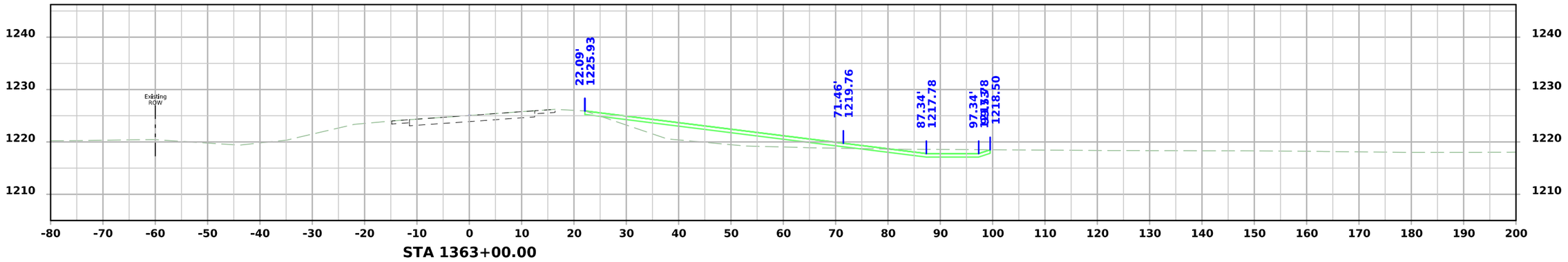


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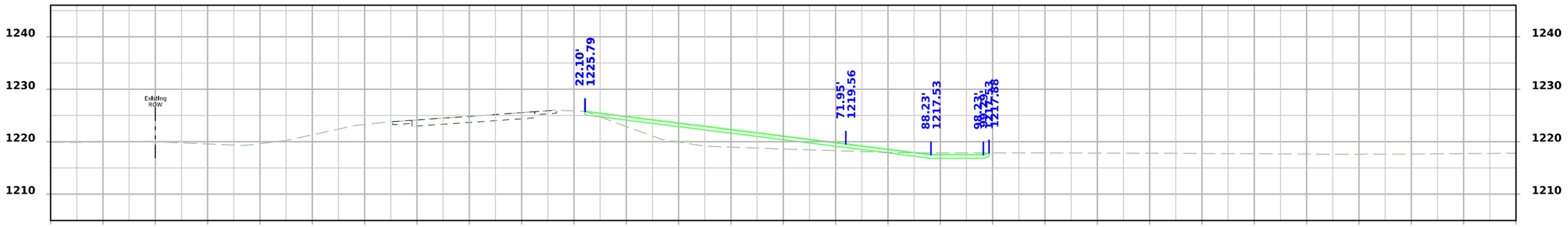
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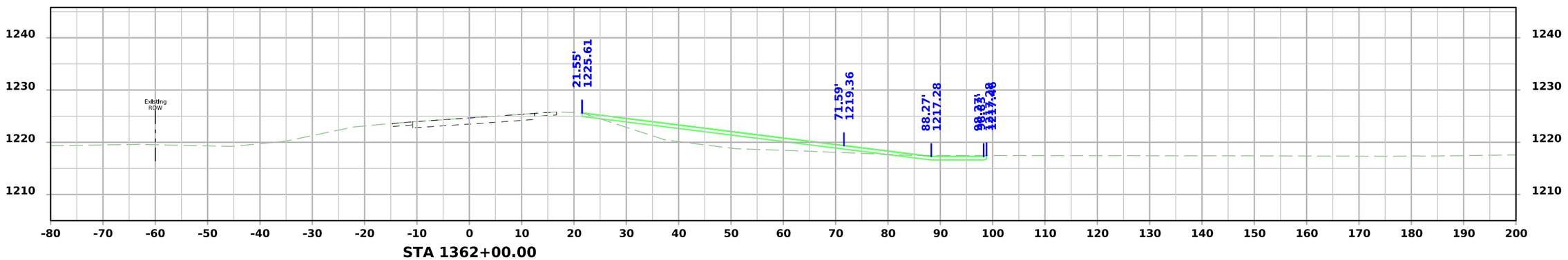
IA 4



STA 1363+00.00



STA 1362+50.00

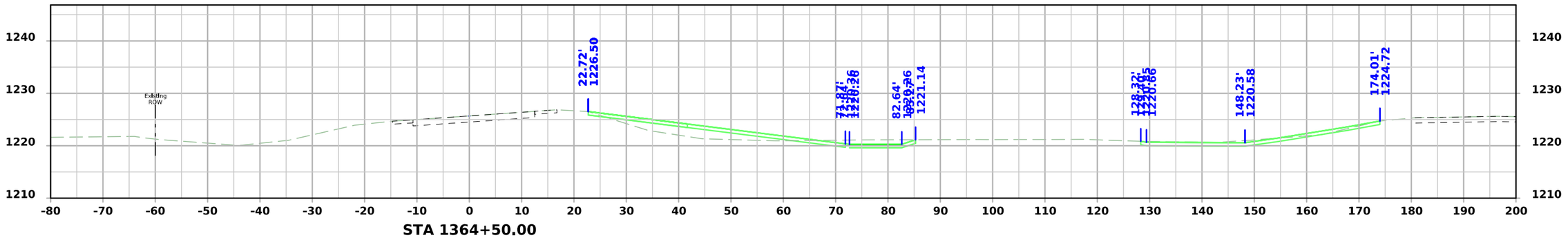


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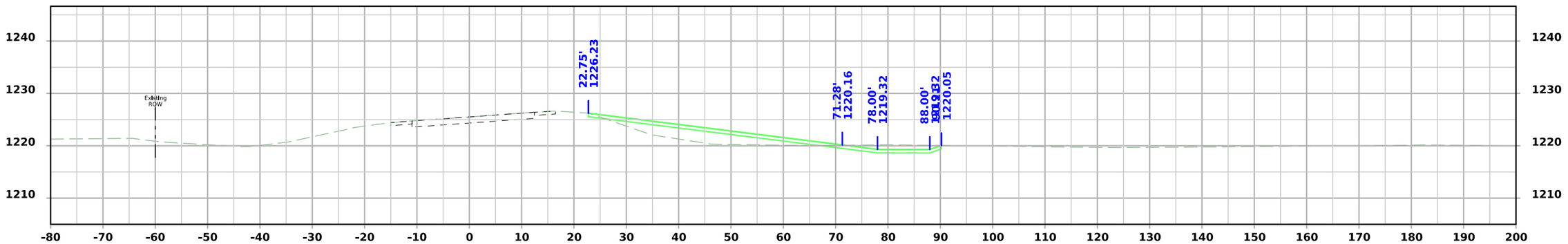
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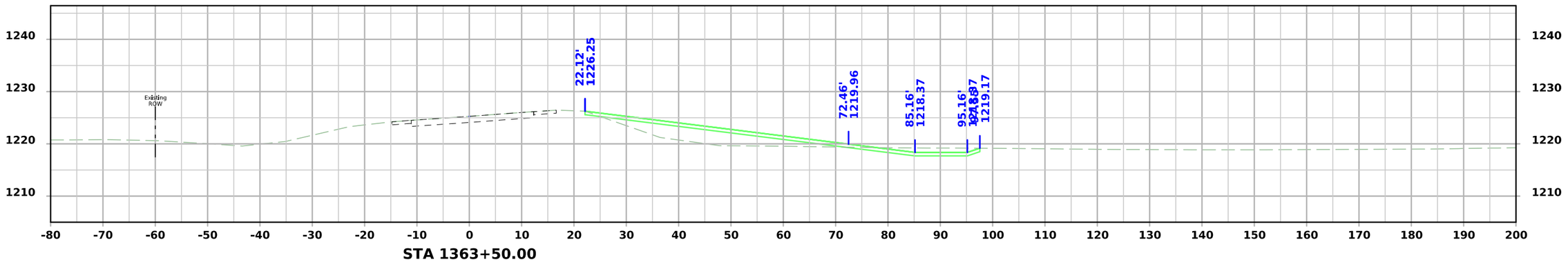
IA 4



STA 1364+50.00



STA 1364+00.00

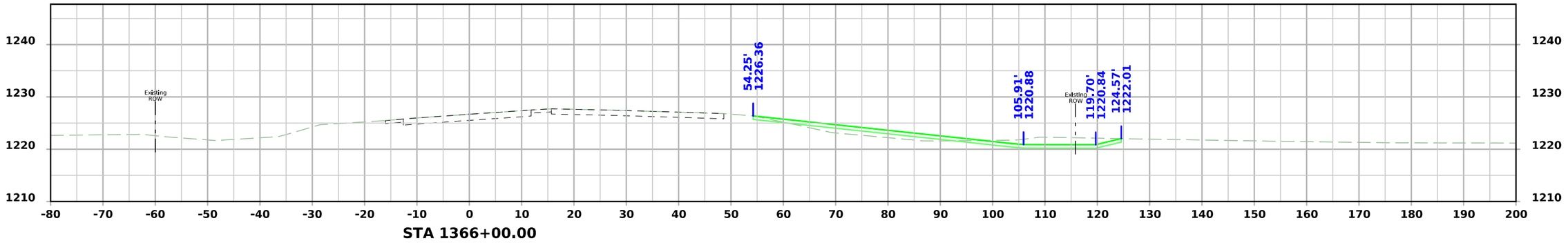


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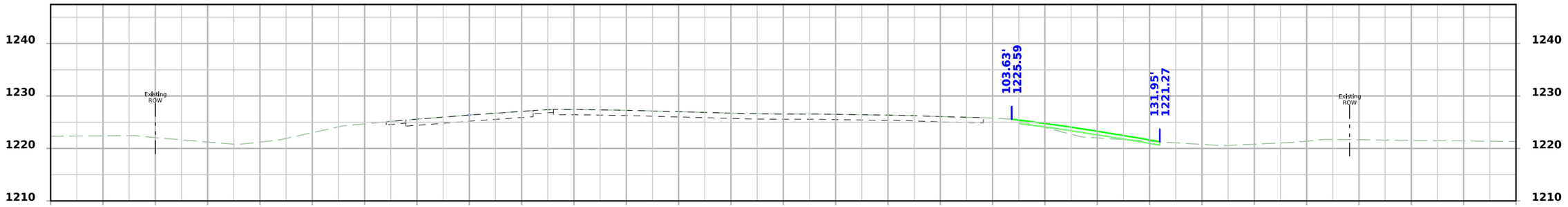
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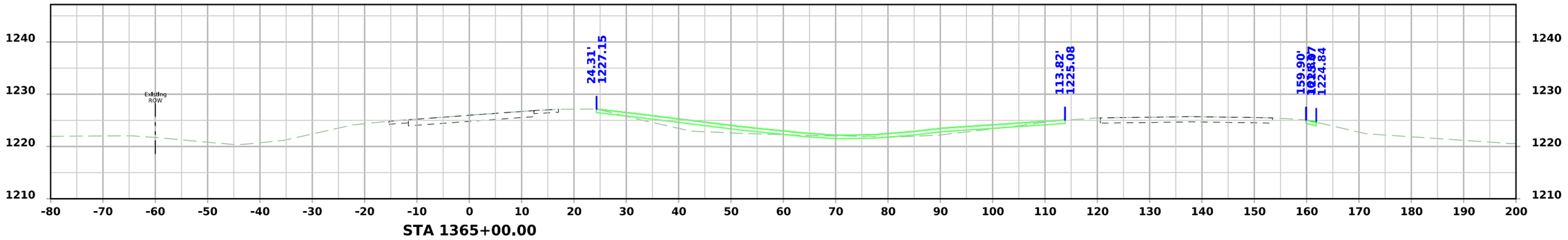
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STA 1366+00.00



STA 1365+50.00

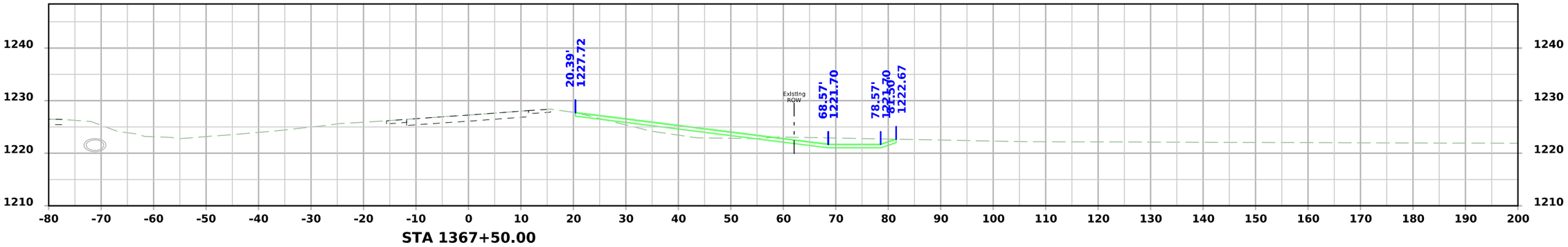


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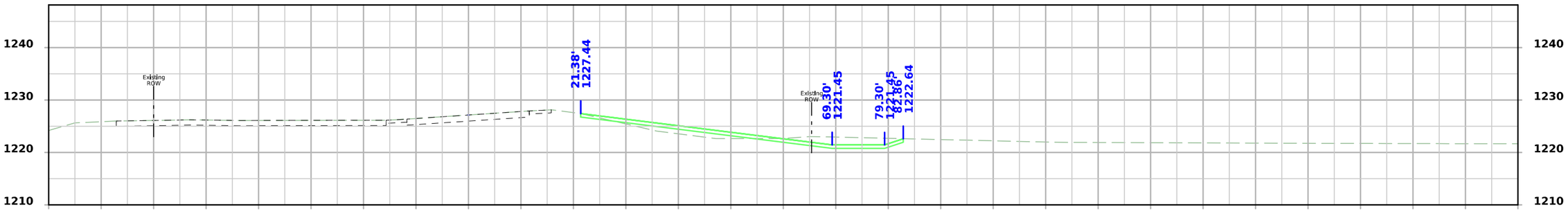
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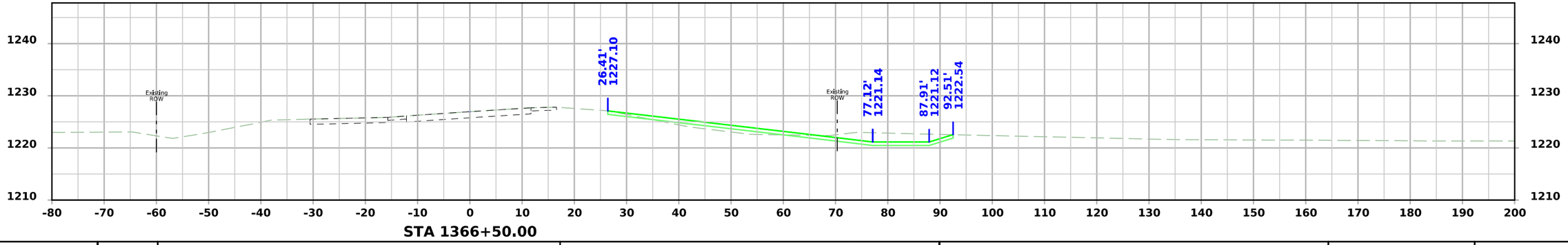
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STA 1367+50.00



STA 1367+00.00

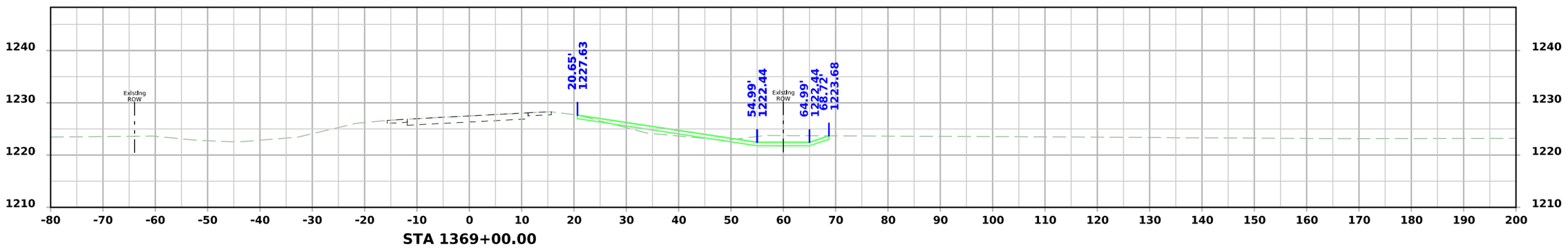


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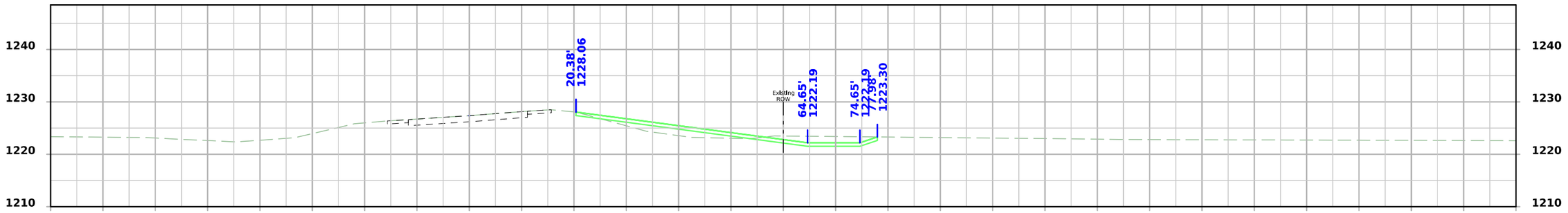
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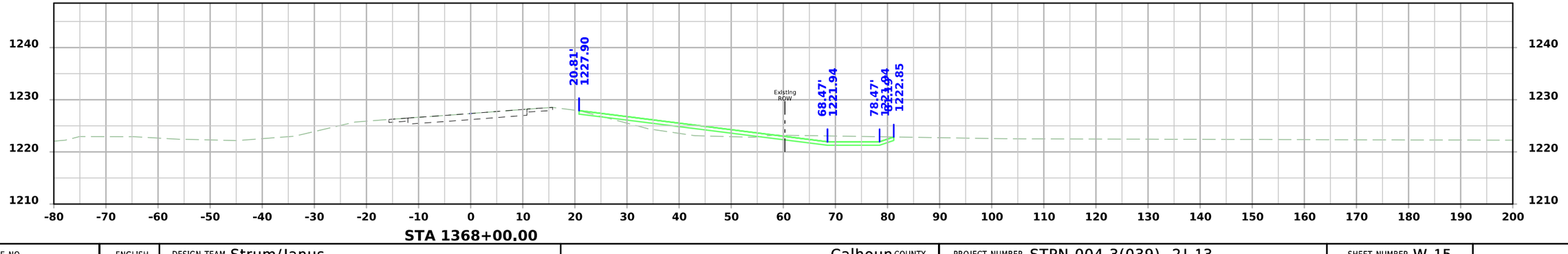
IA 4



STA 1369+00.00



STA 1368+50.00

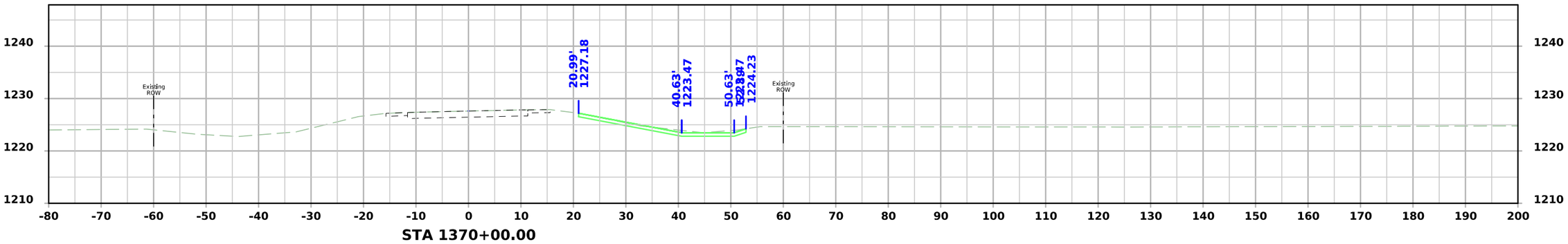


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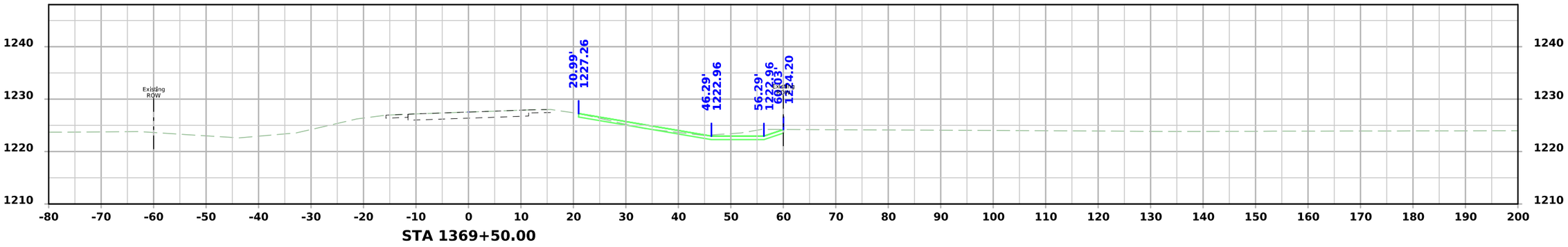
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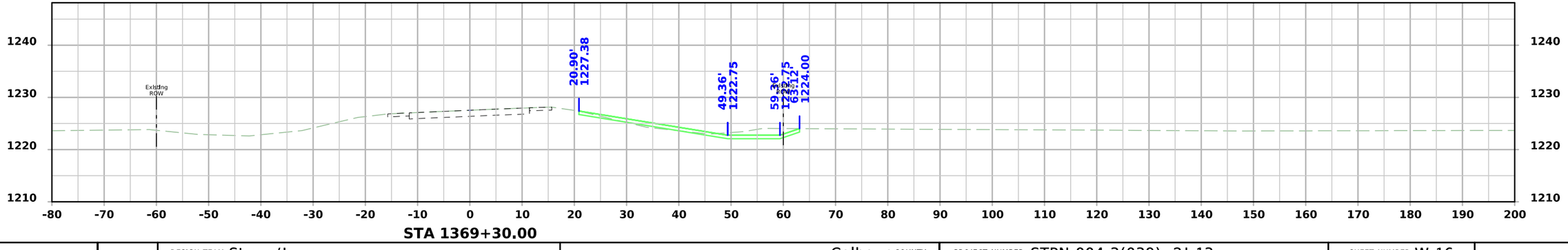
IA 4



STA 1370+00.00



STA 1369+50.00

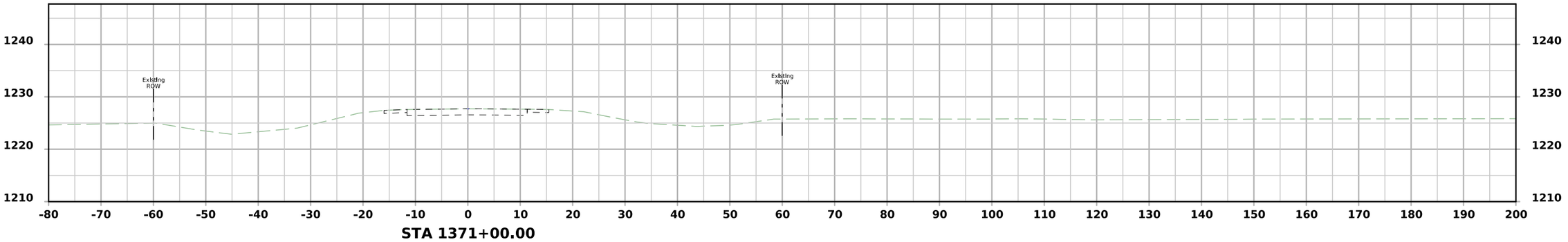


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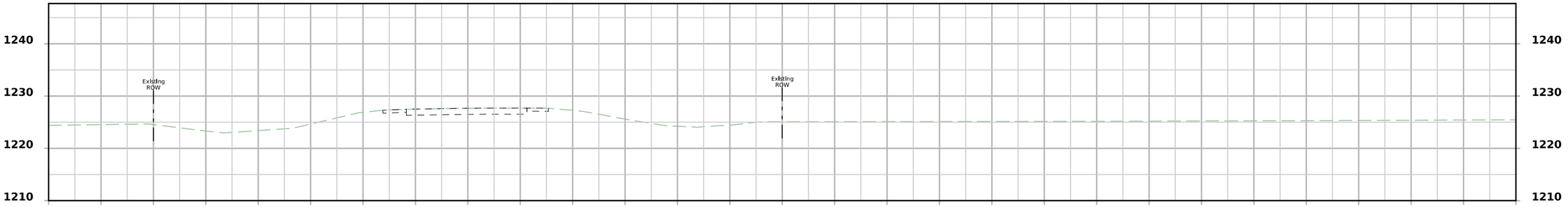
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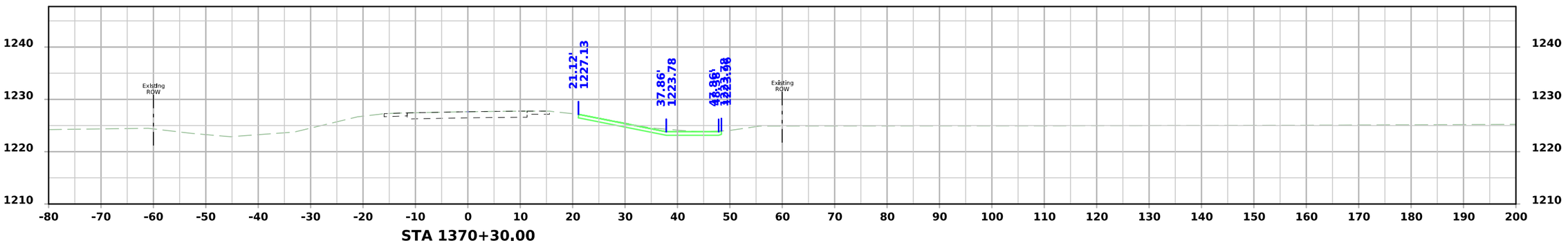
IA 4



STA 1371+00.00



STA 1370+50.00

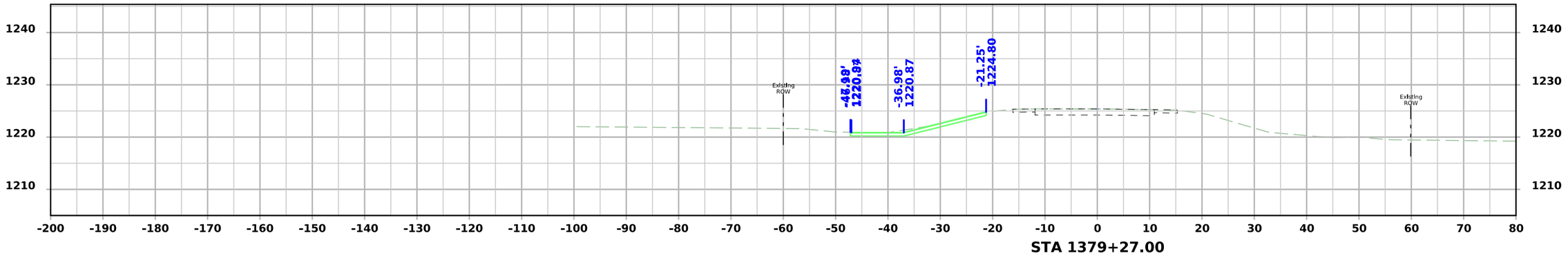


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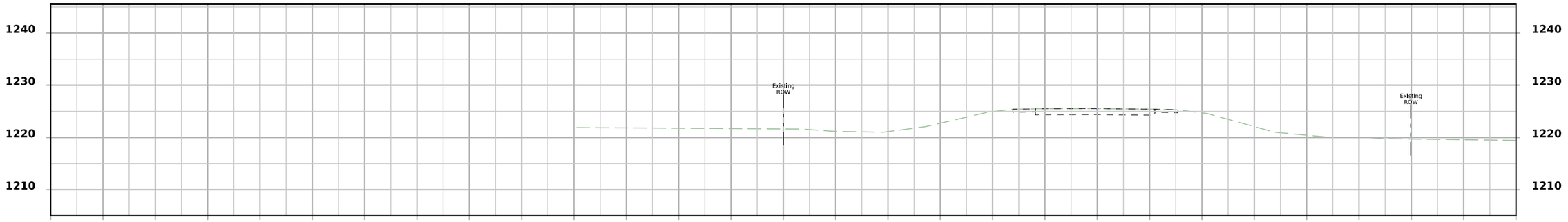
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER W.17	

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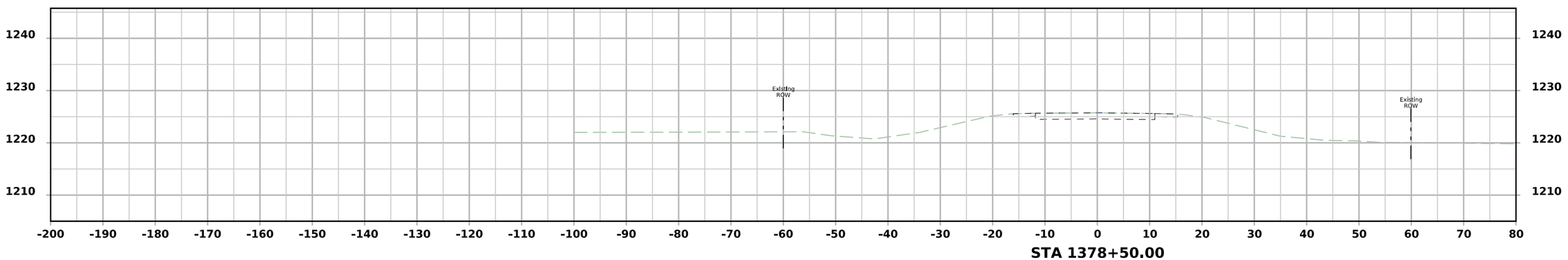
IA 4



STA 1379+27.00



STA 1379+00.00

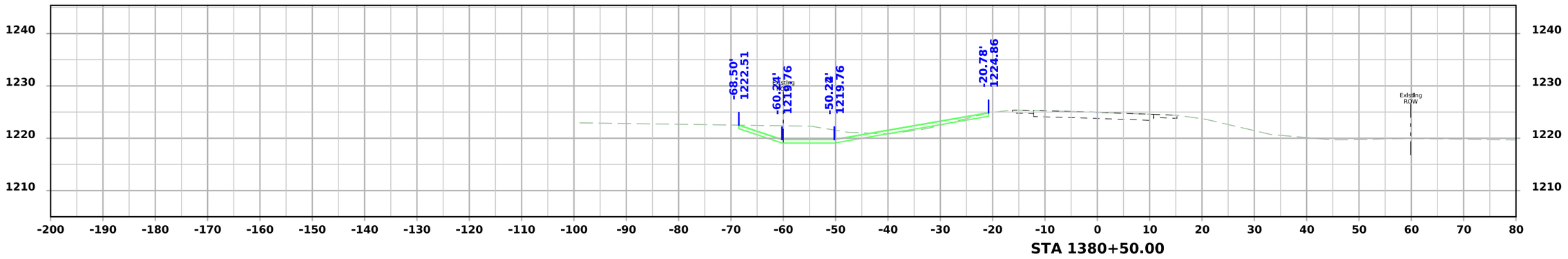


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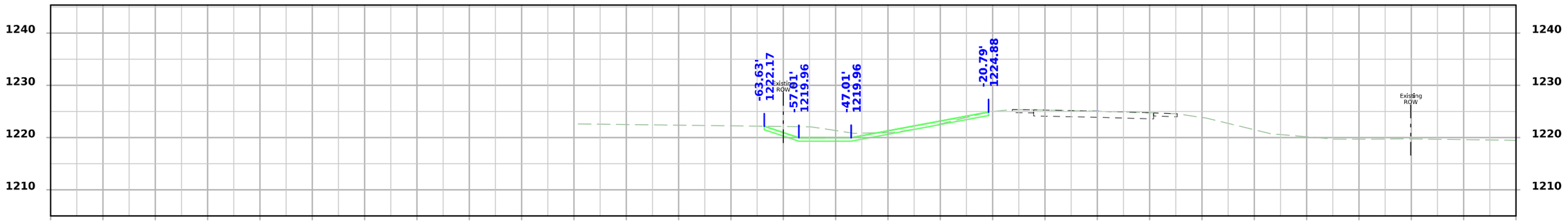
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER W.16

9:59:46 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_W03.dgn

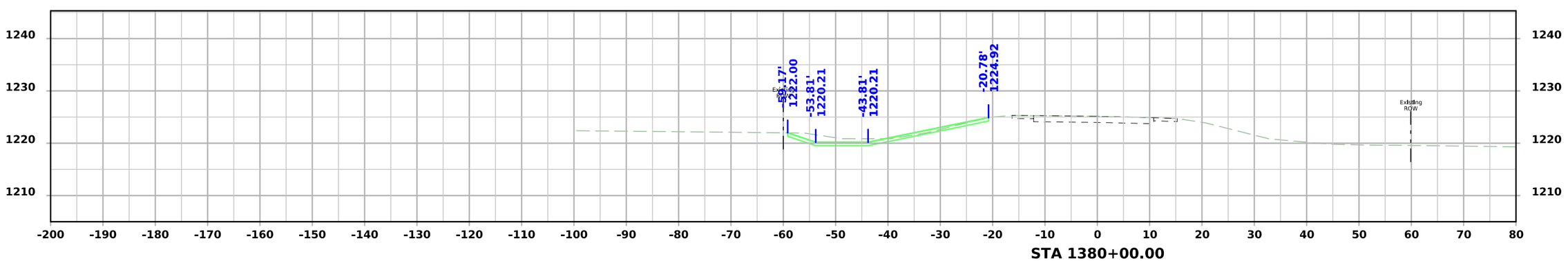
IA 4



STA 1380+50.00



STA 1380+27.00

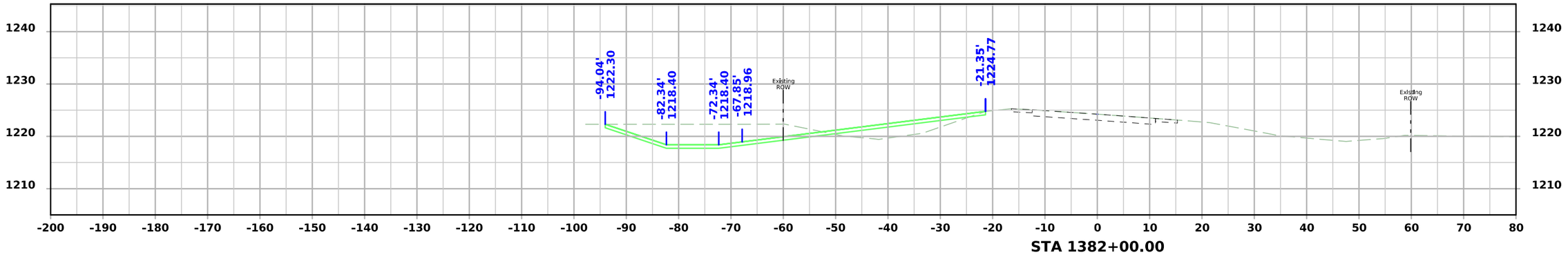


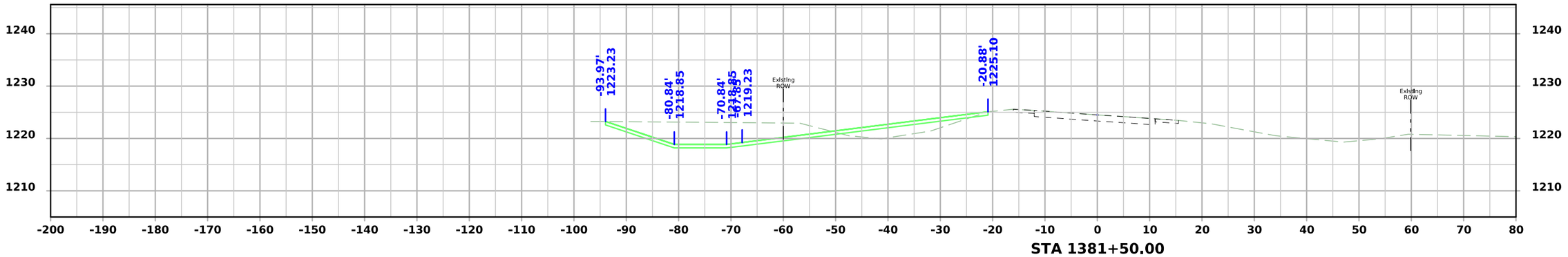
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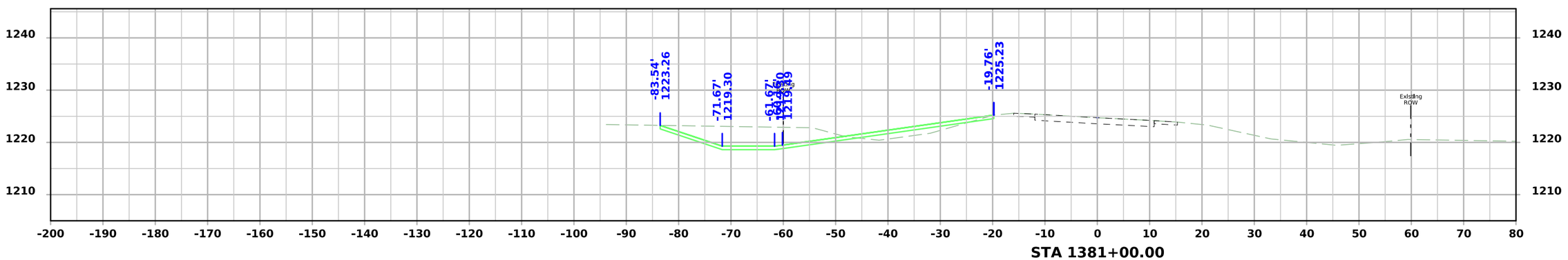
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER W.17

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IA 4



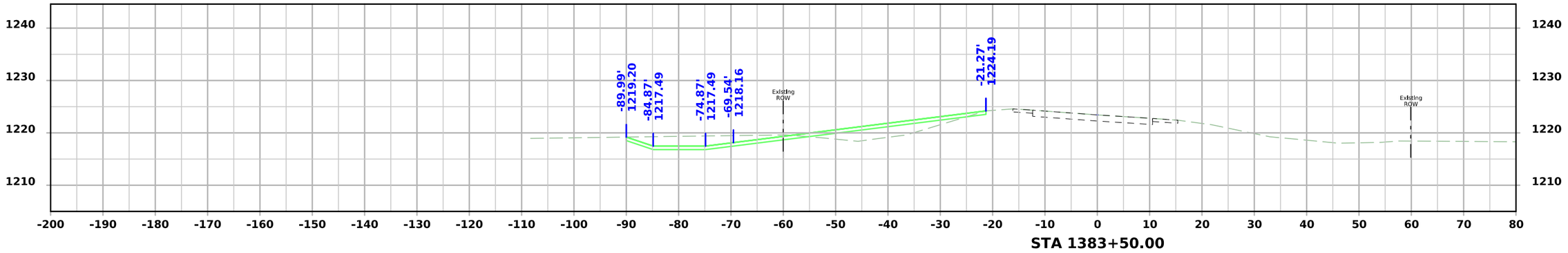


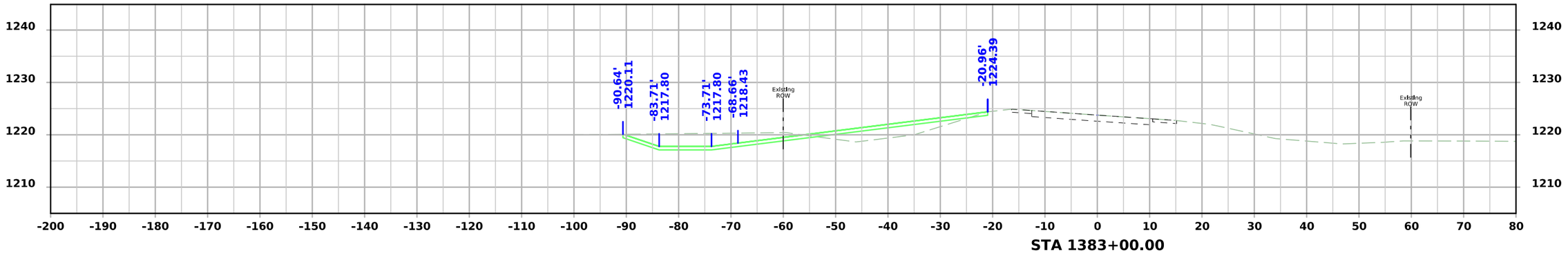


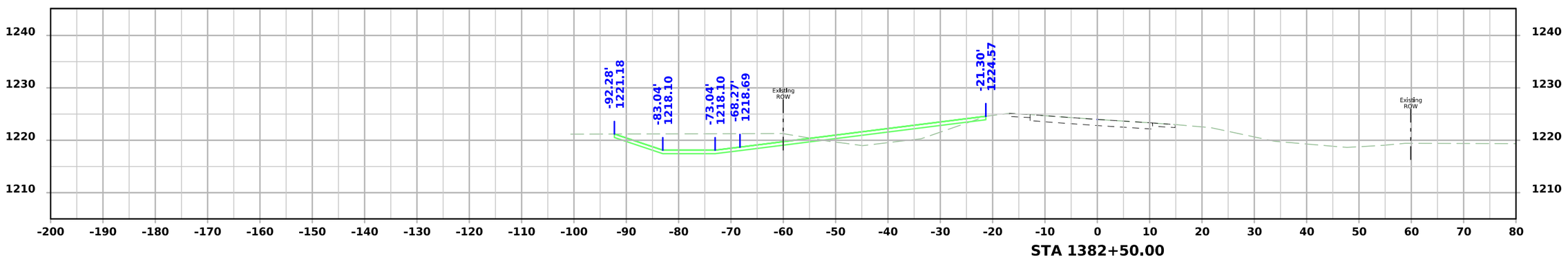
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IA 4



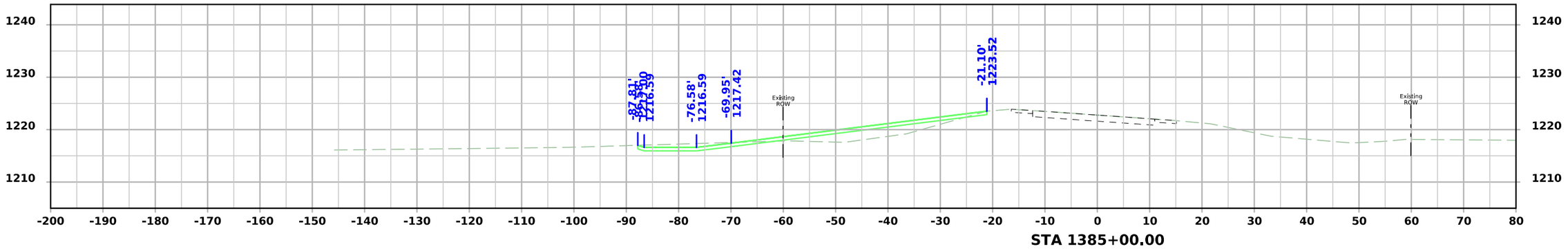


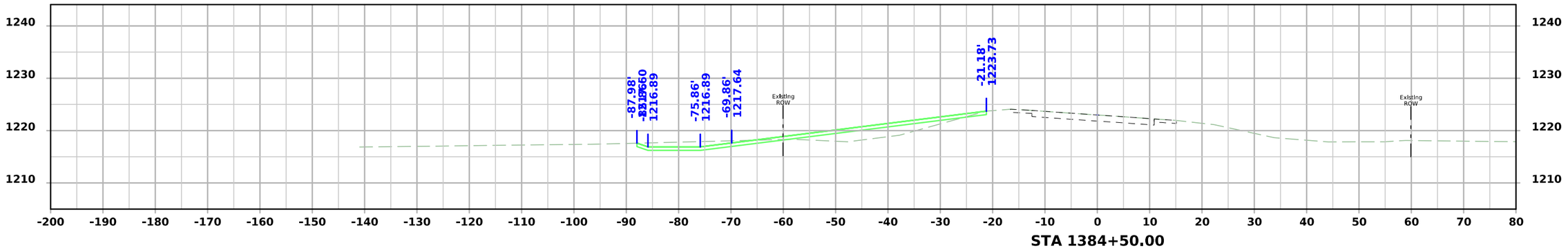


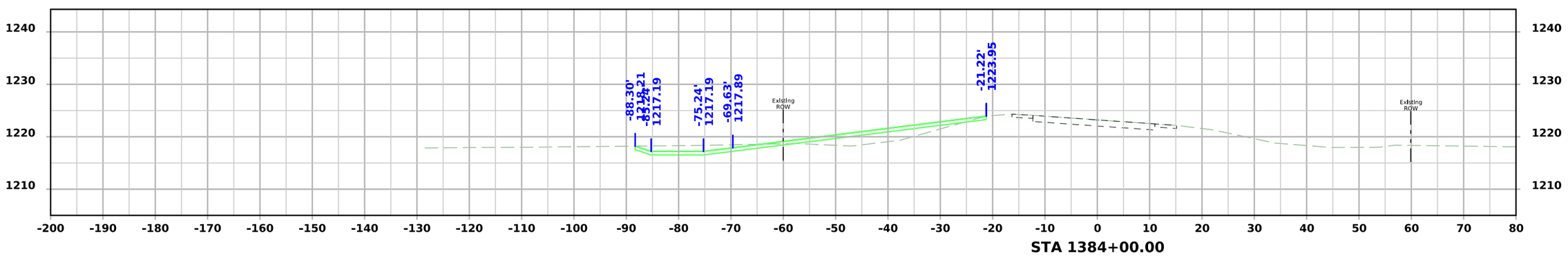
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IA 4



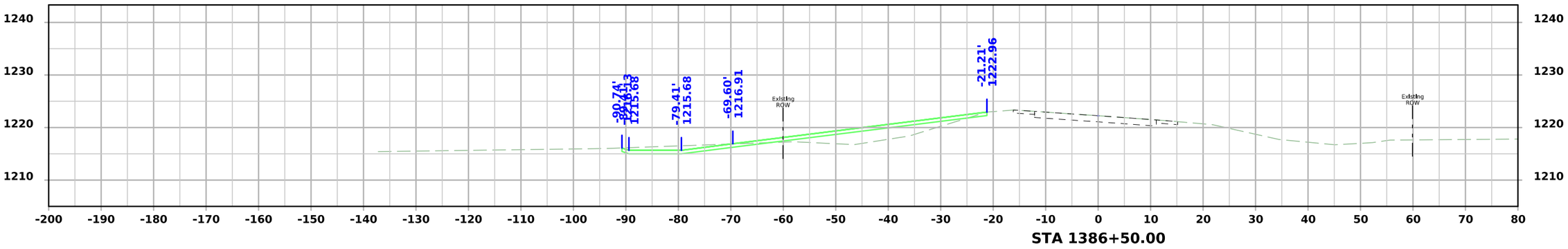


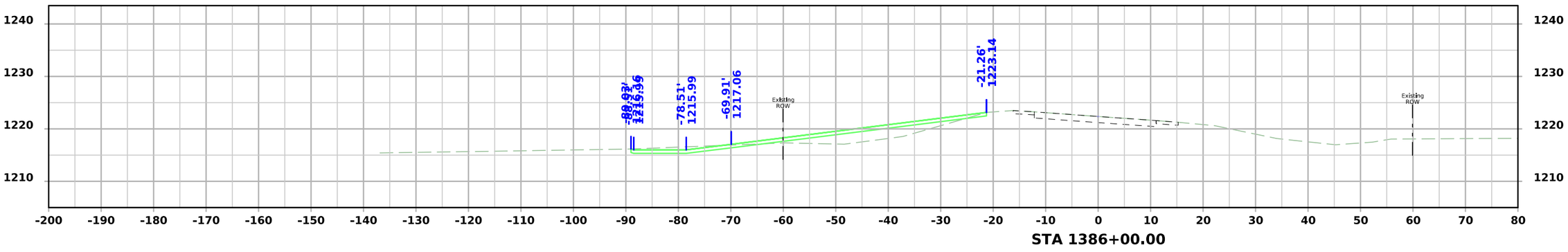


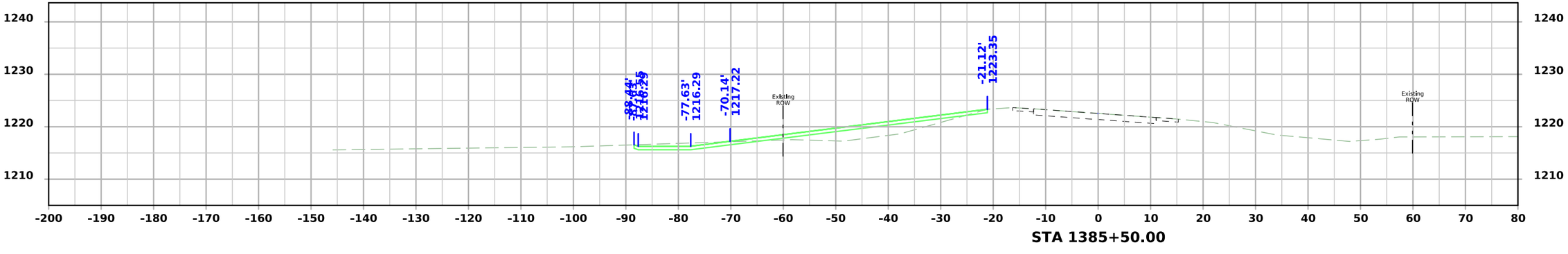
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IA 4



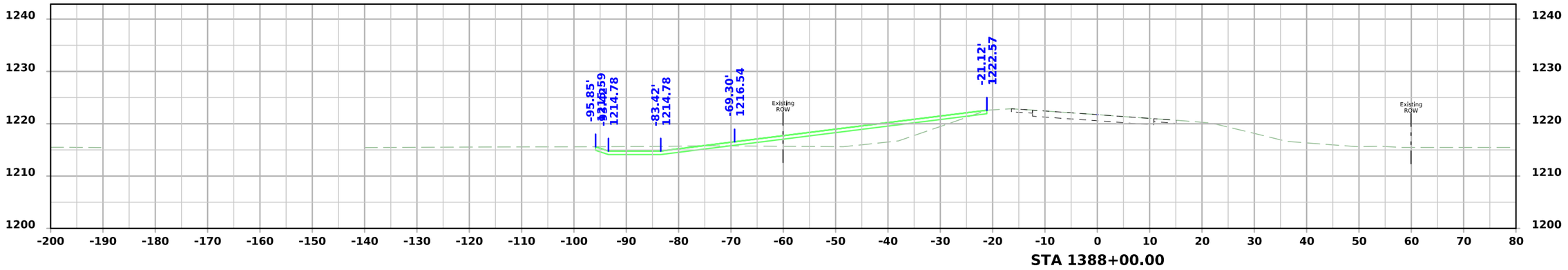


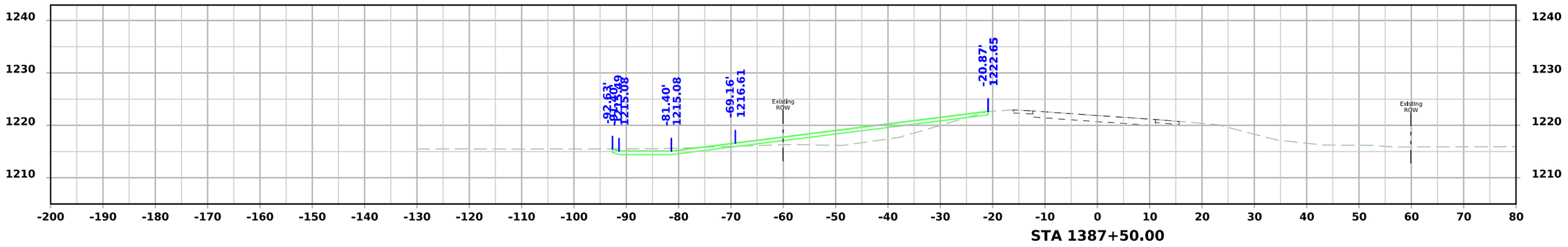


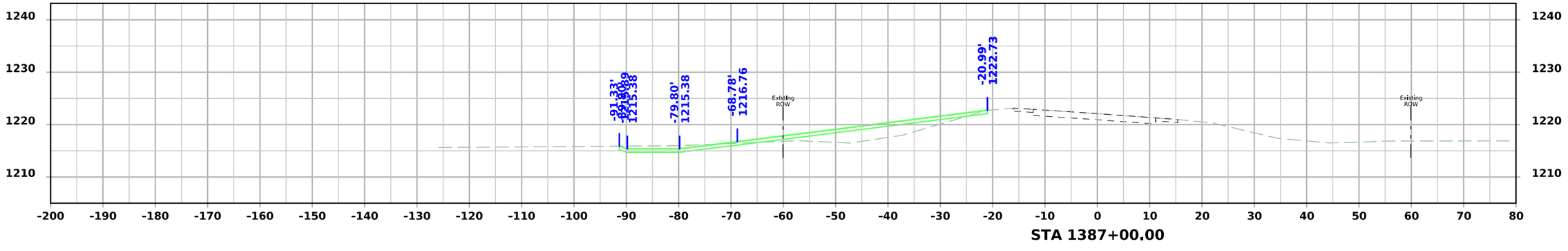
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IA 4



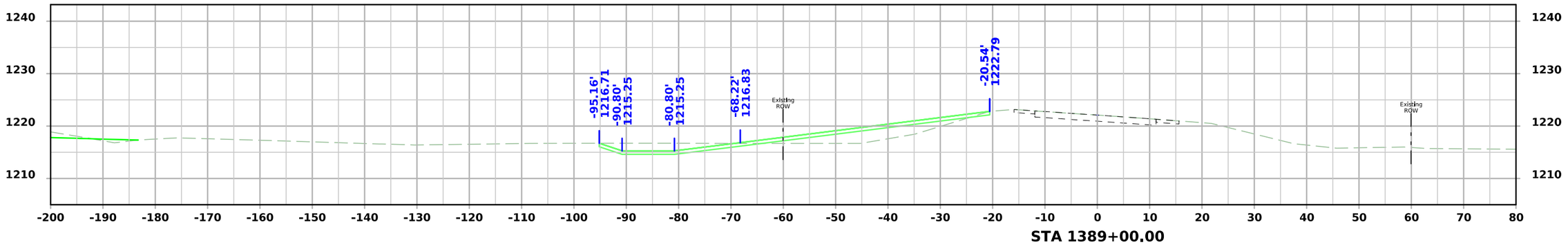




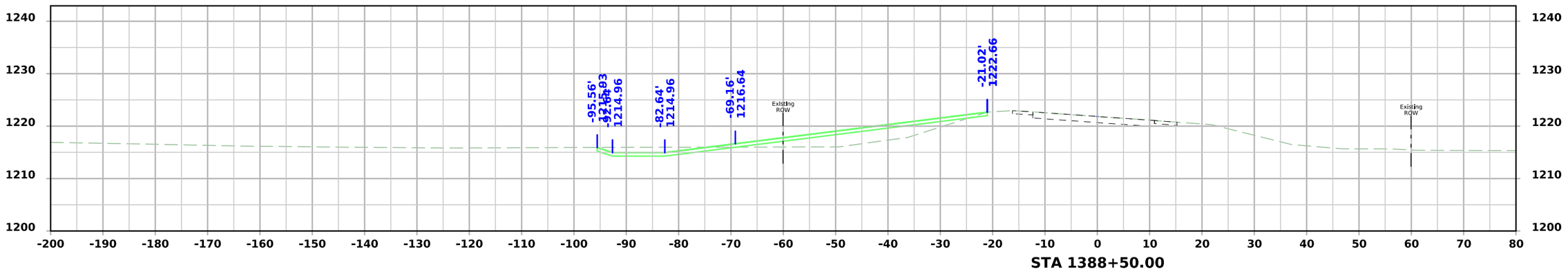
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9:59:53 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_W03.dgn

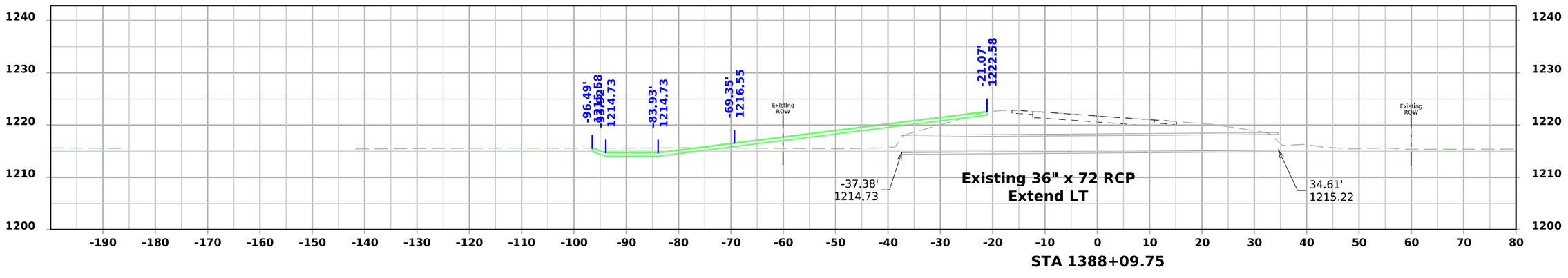
IA 4



STA 1389+00.00



STA 1388+50.00

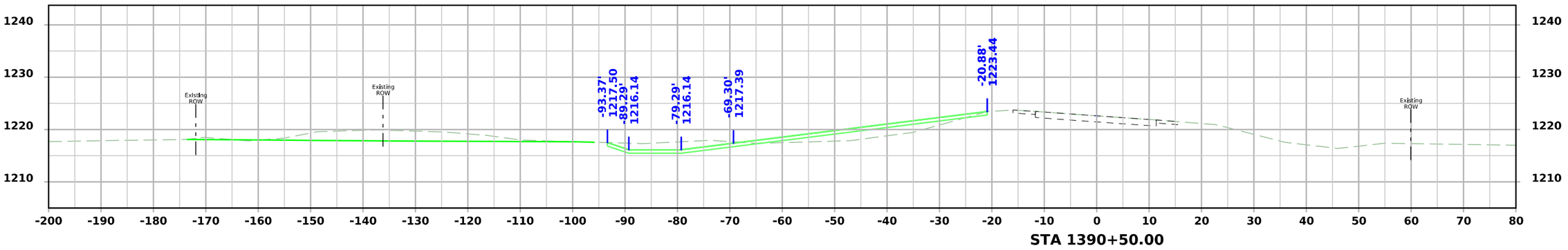


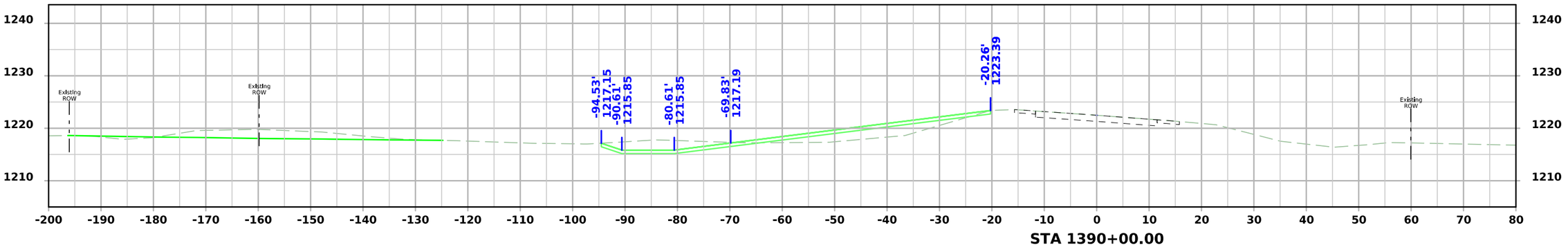
STA 1388+09.75

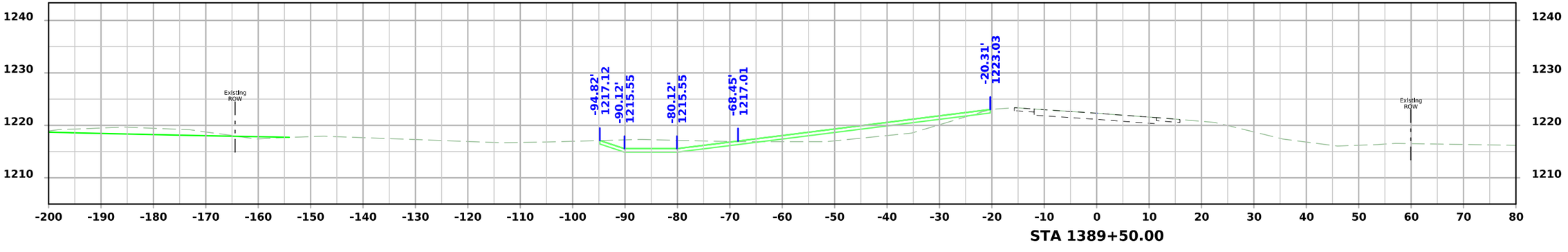
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IA 4



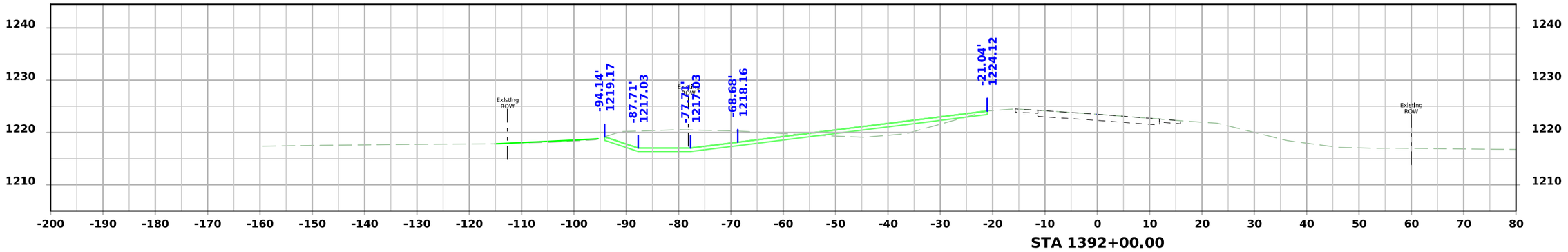


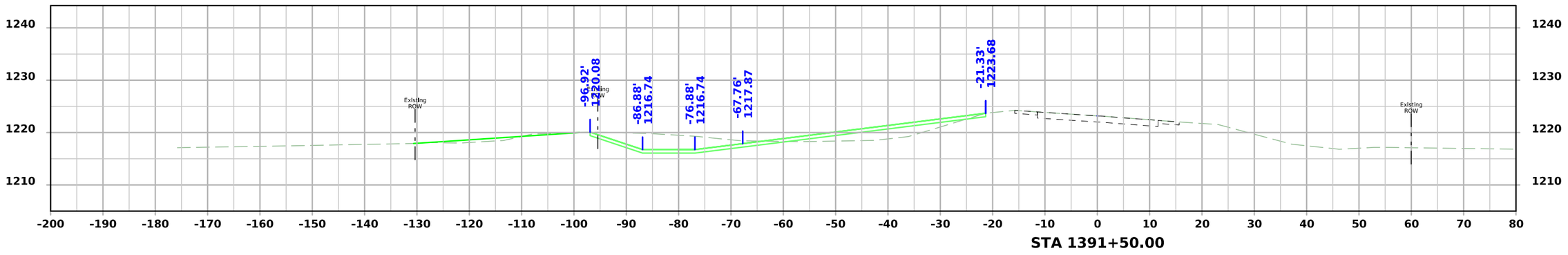


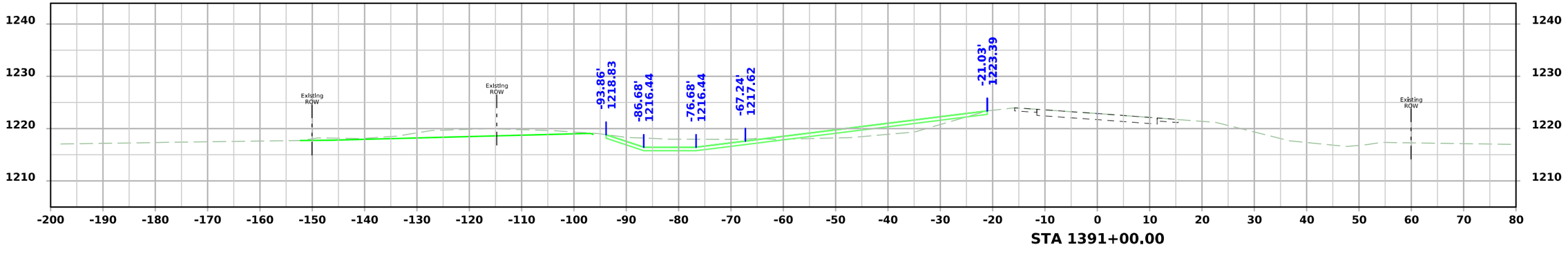
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IA 4



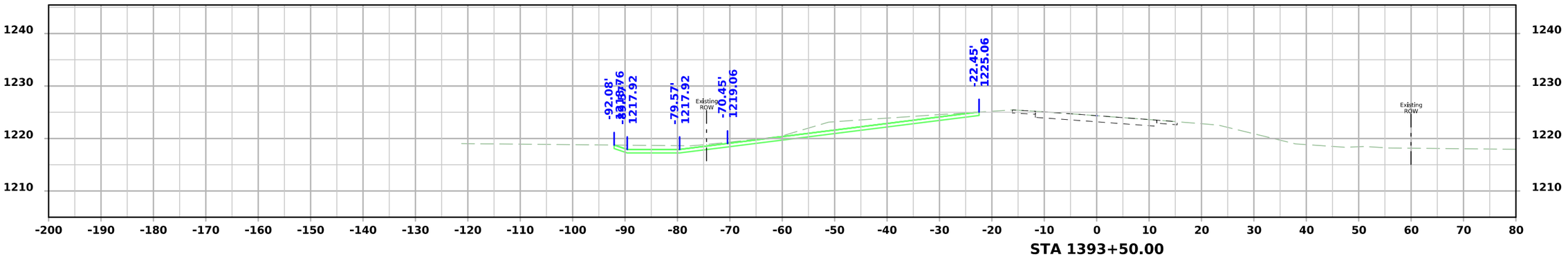


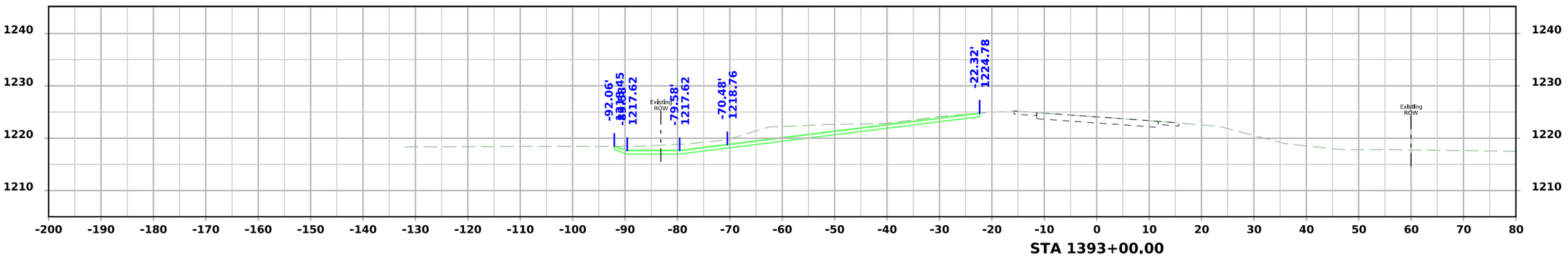


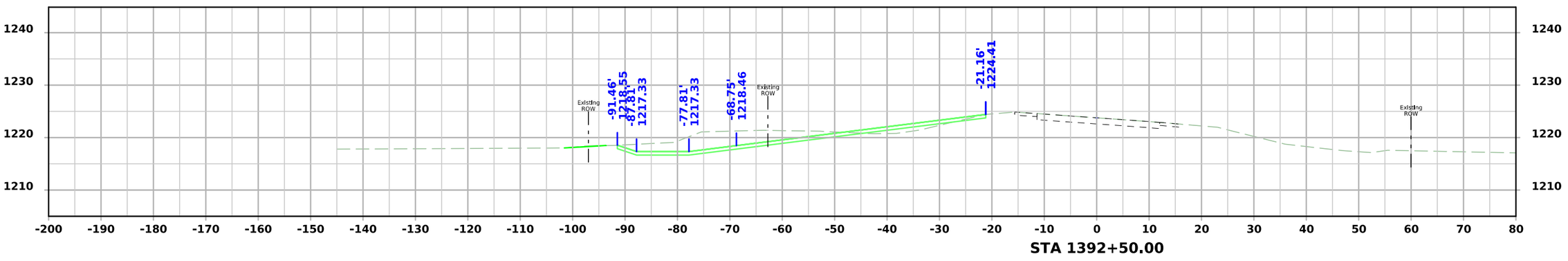
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IA 4



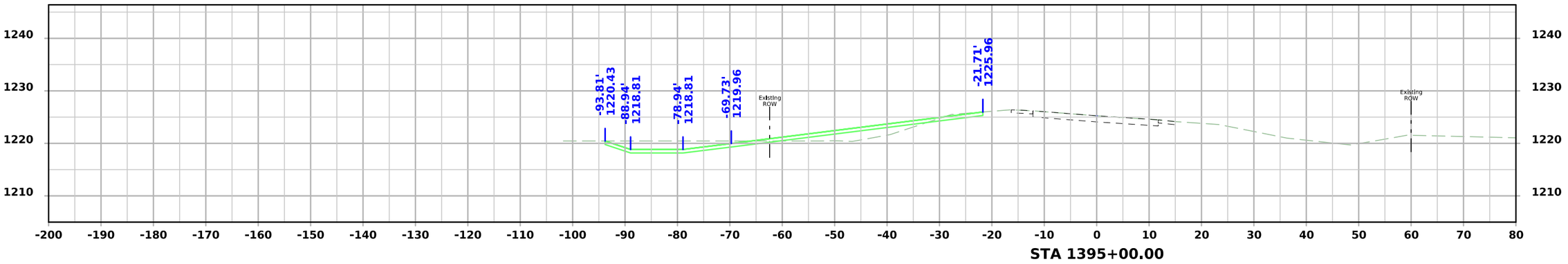


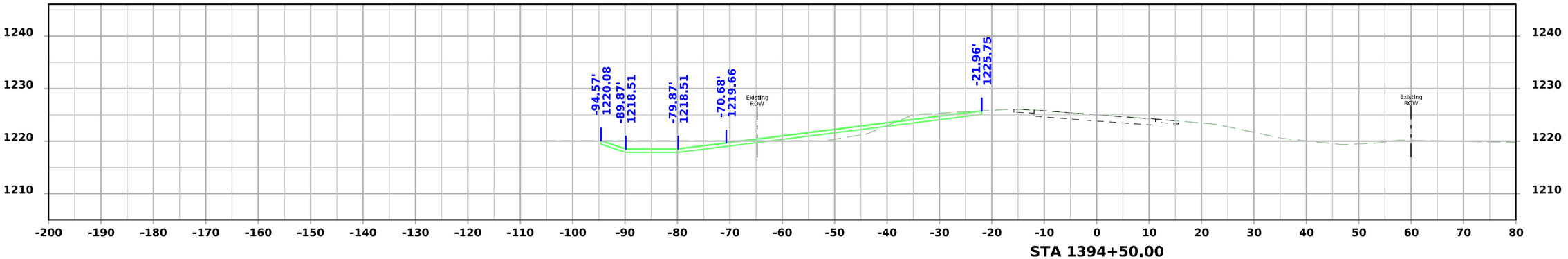


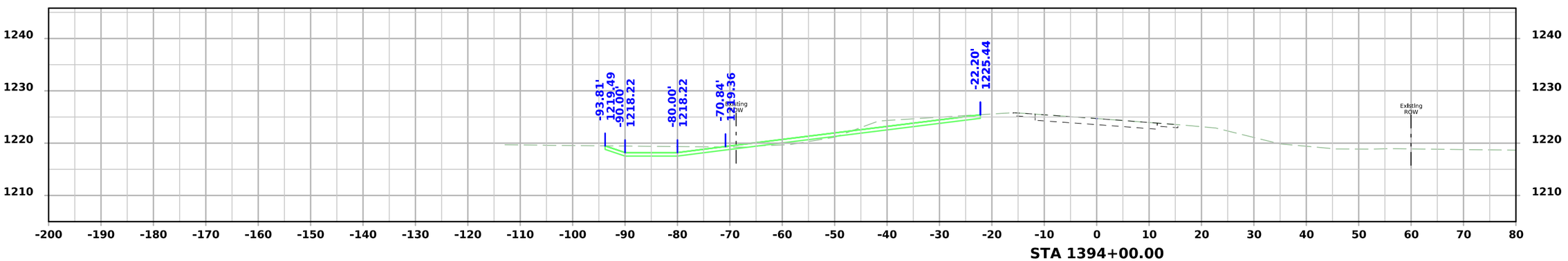
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER W.26

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IA 4



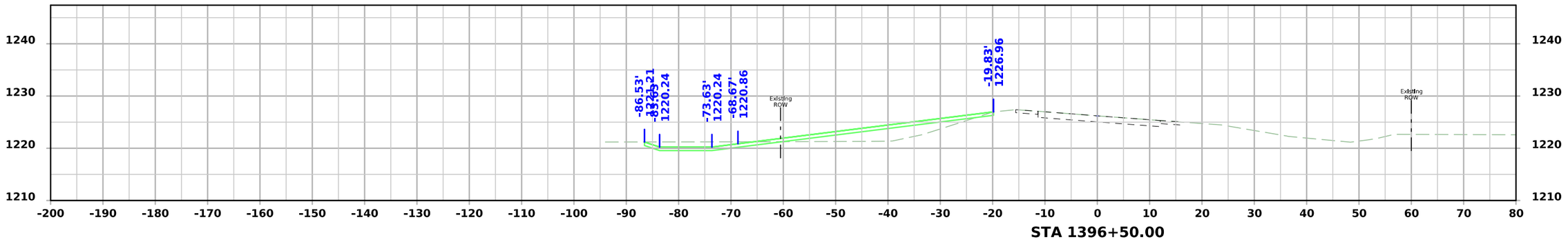




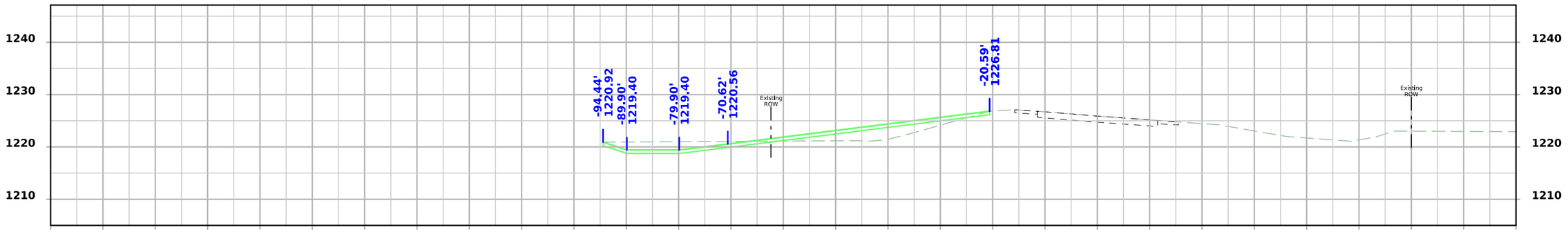
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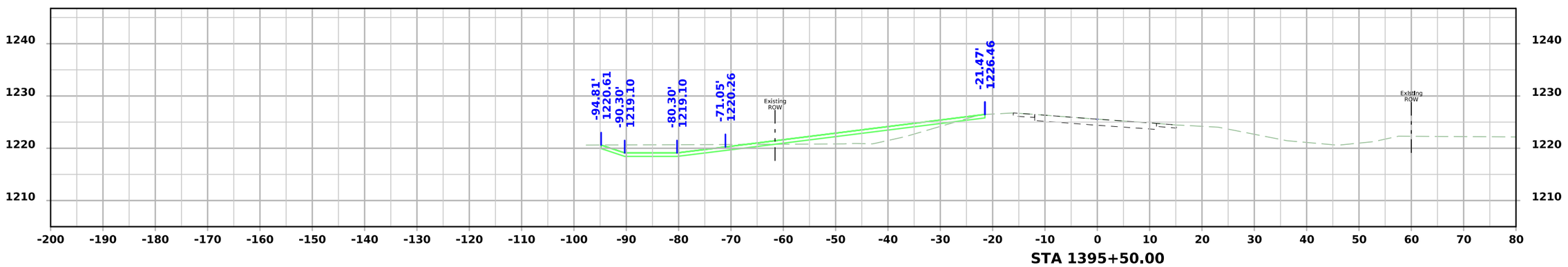
IA 4



STA 1396+50.00



STA 1396+00.00

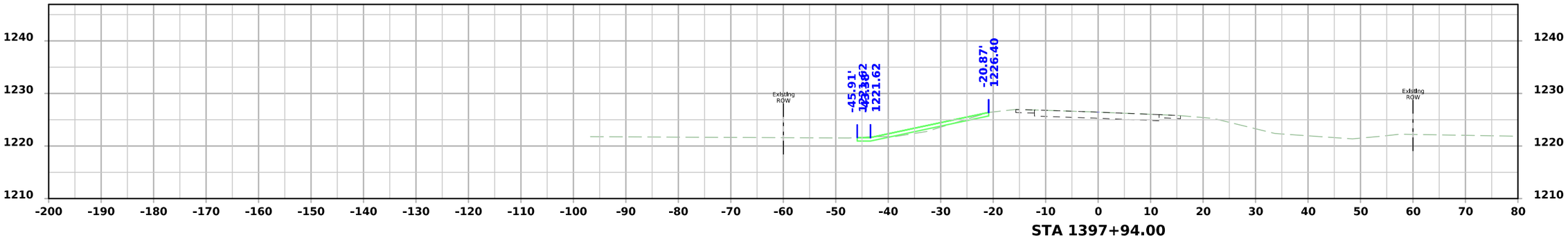


STA 1395+50.00

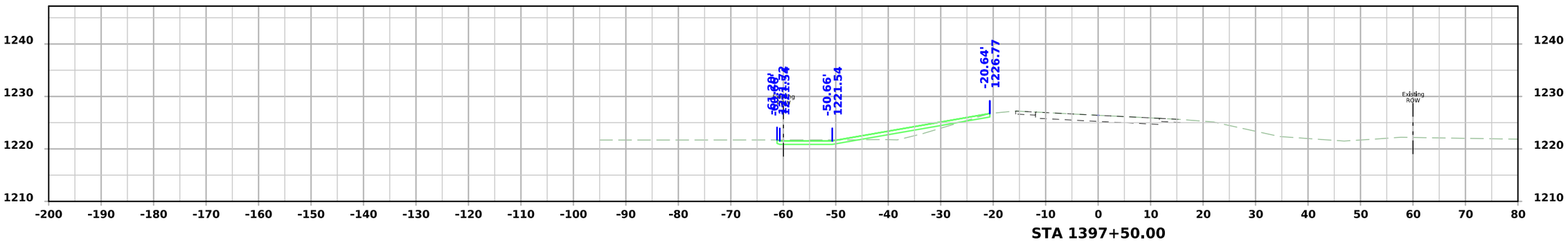
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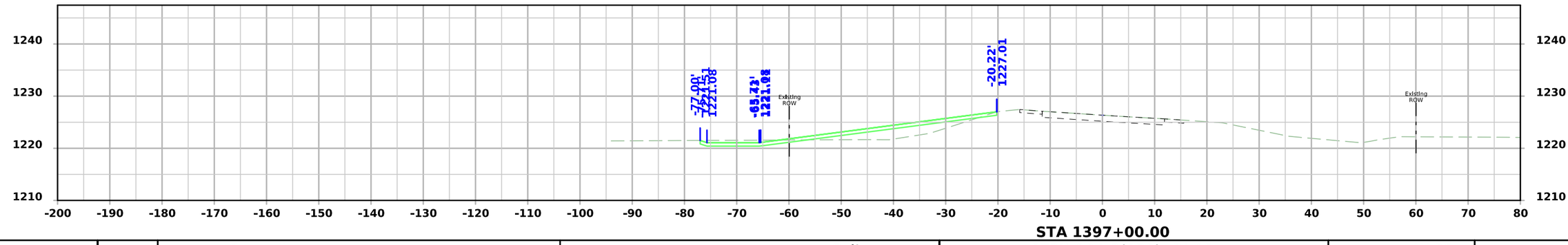
IA 4



STA 1397+94.00



STA 1397+50.00

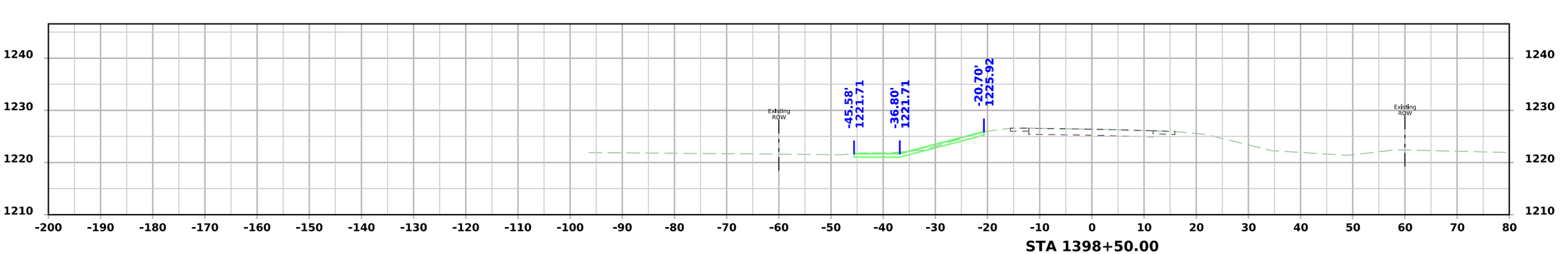


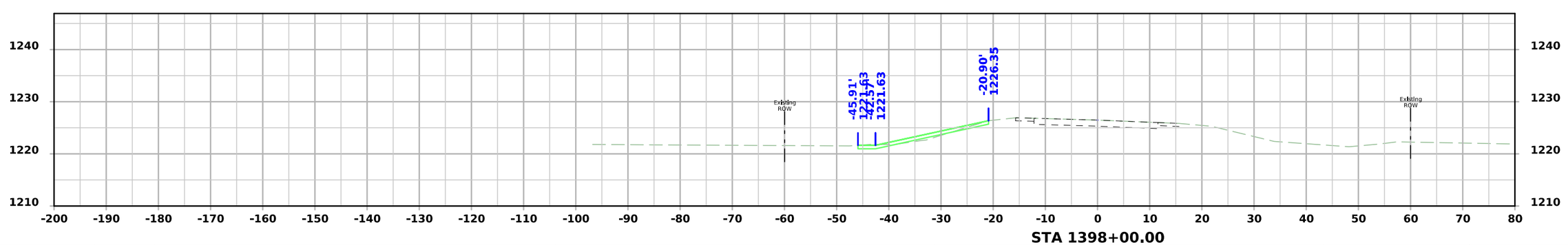
STA 1397+00.00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER W.29

10:00:00 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_W03.dgn

IA 4

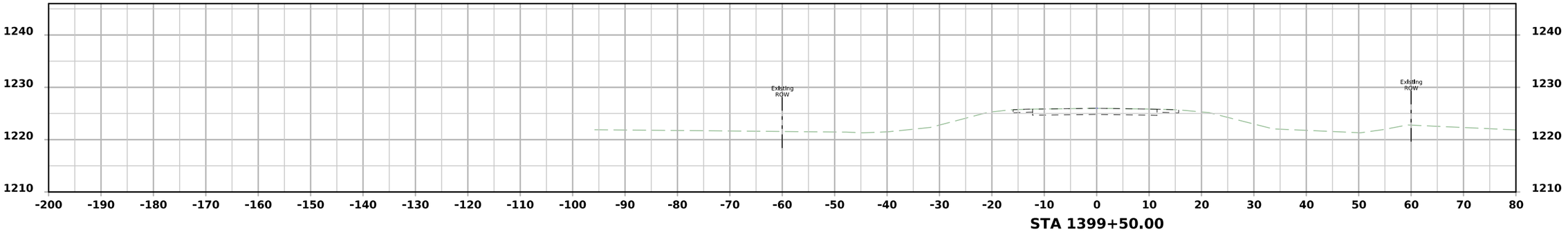




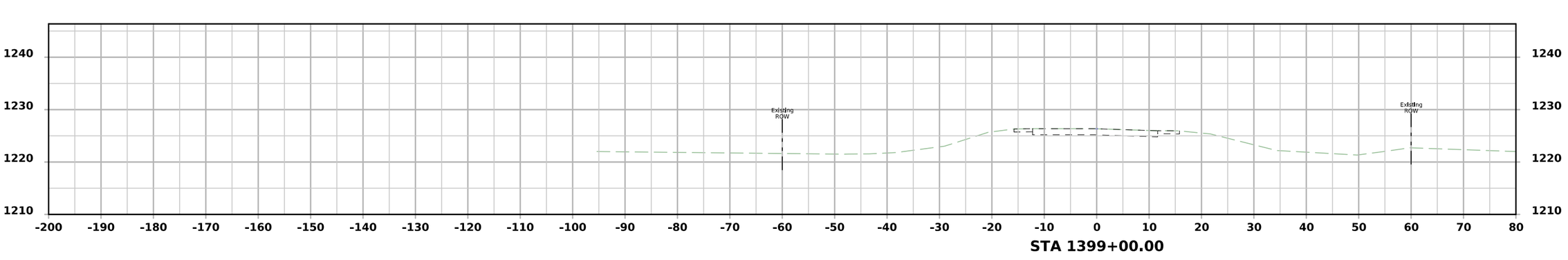
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10:00:01 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_W03.dgn

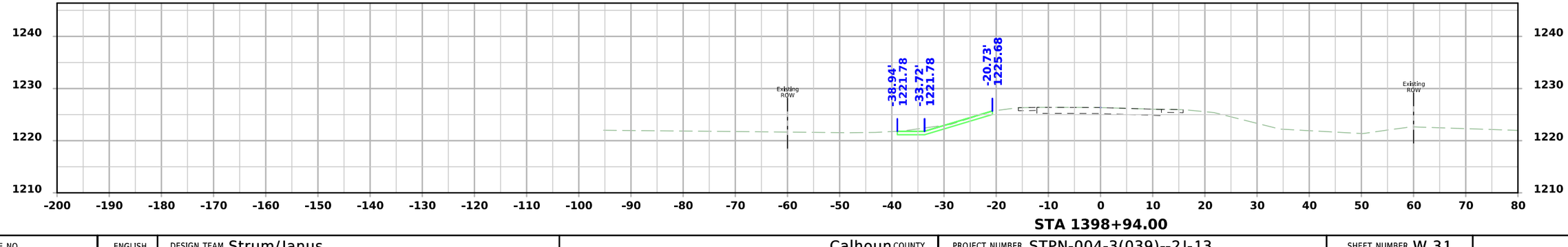
IA 4



STA 1399+50.00



STA 1399+00.00

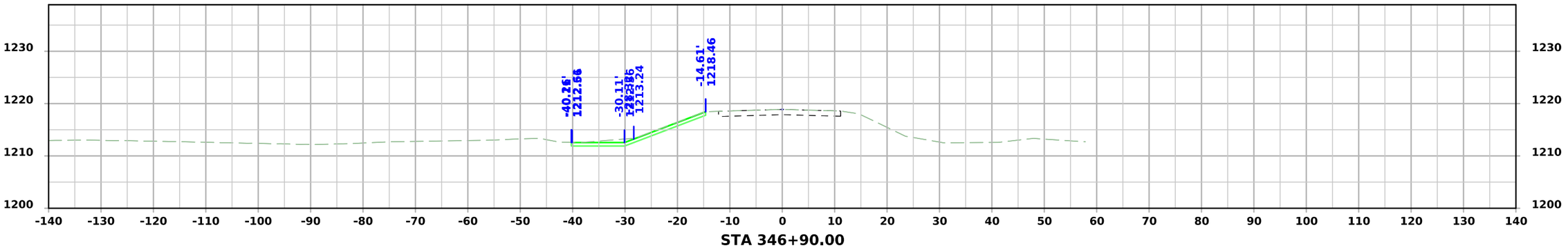


STA 1398+94.00

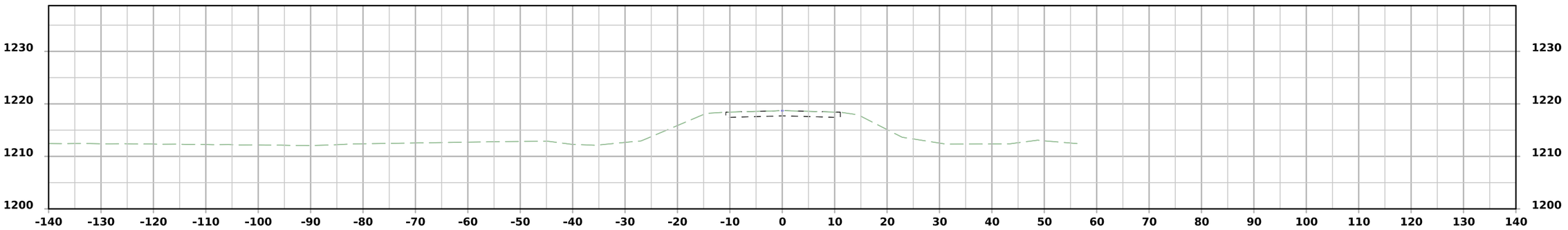
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER W.31

10:00:02 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_W03.dgn

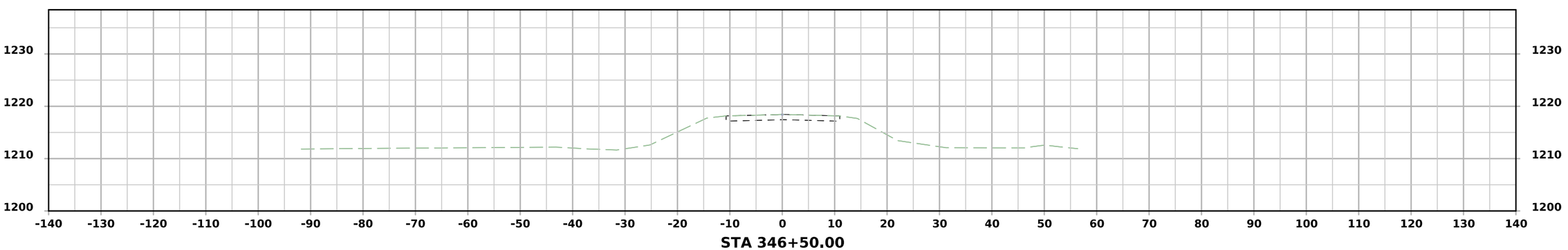
220th St (SR220W)



STA 346+90.00



STA 346+75.00

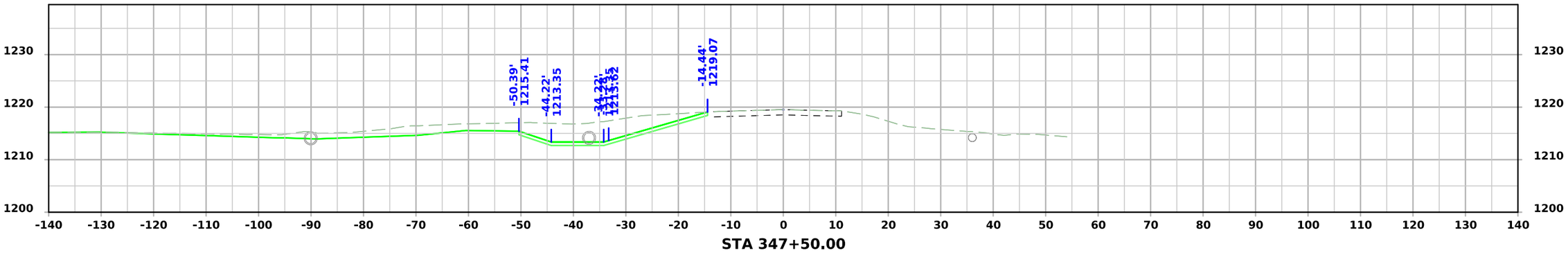


STA 346+50.00

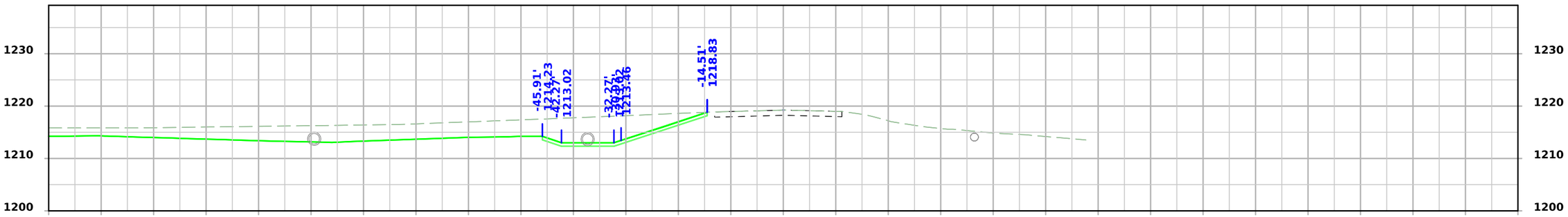
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.1	

10:31:50 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X01.dgn

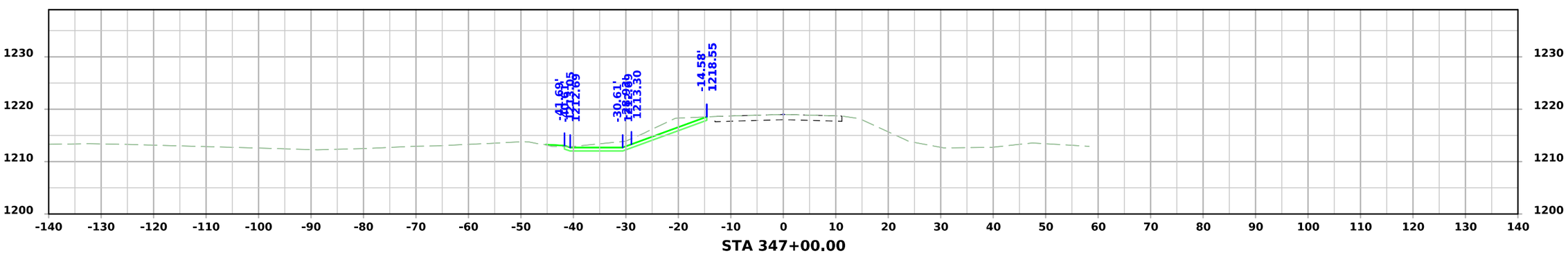
220th St (SR220W)



STA 347+50.00



STA 347+25.00

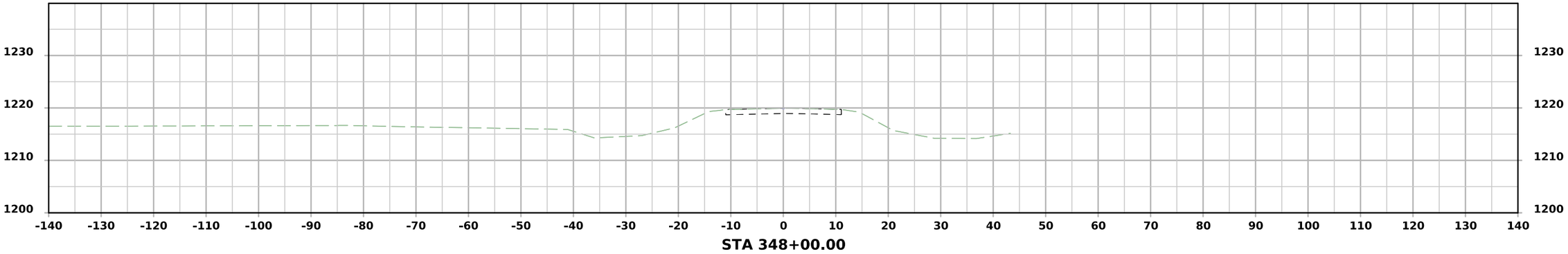


STA 347+00.00

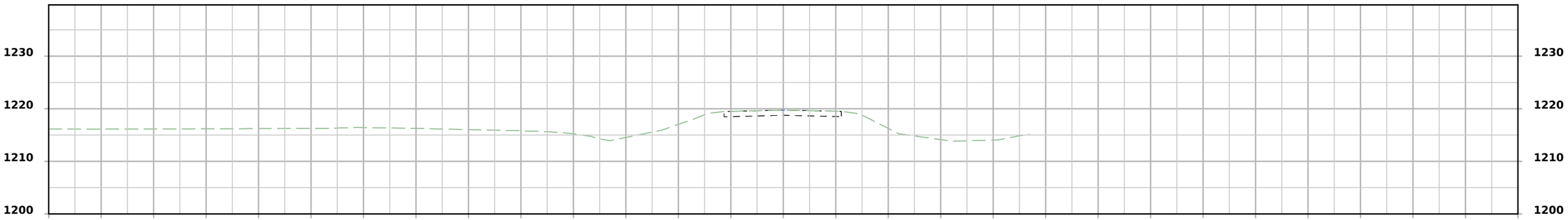
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.2	

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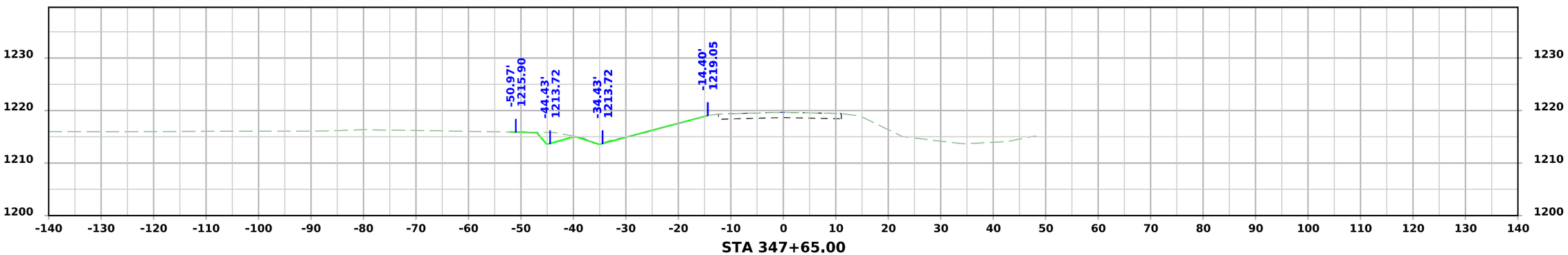
220th St (SR220W)



STA 348+00.00



STA 347+75.00

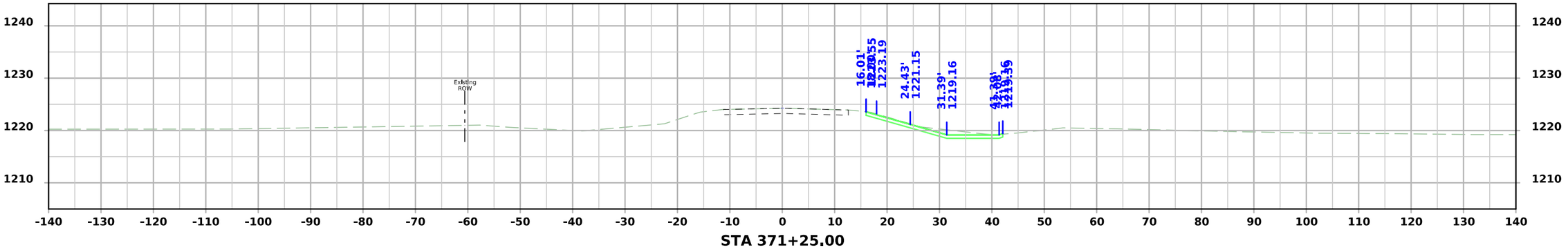


STA 347+65.00

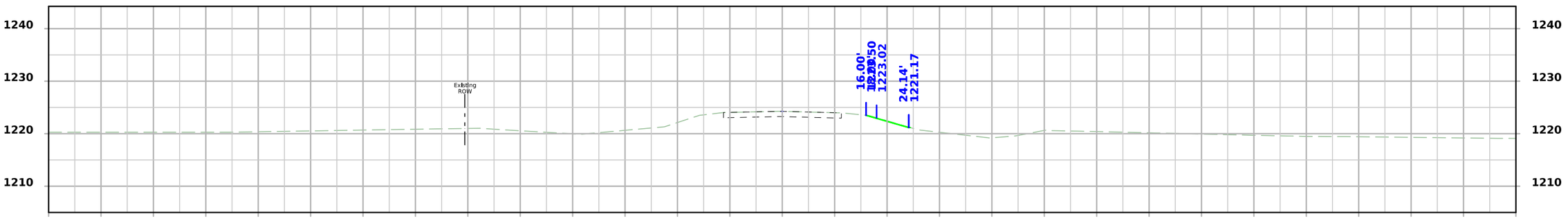
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.3

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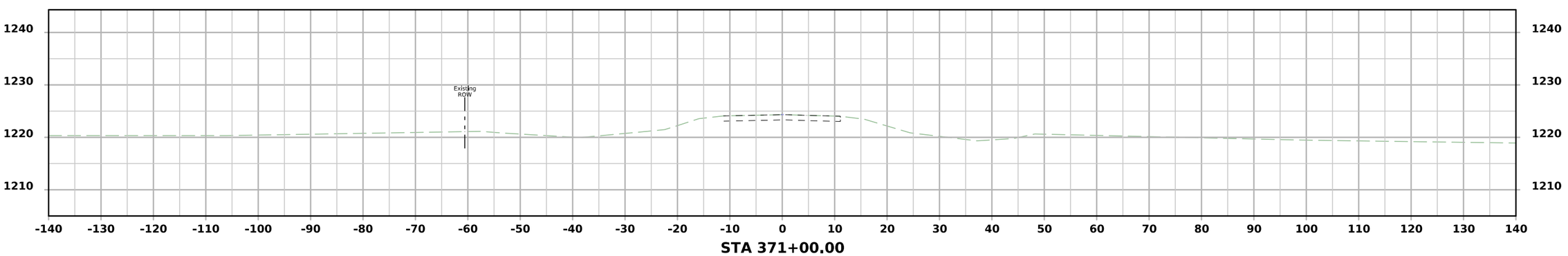
220th St (SR220E)



STA 371+25.00



STA 371+19.00

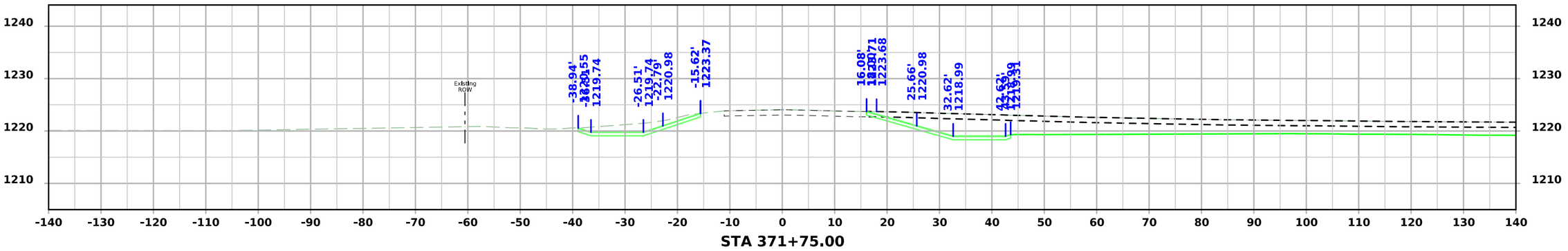


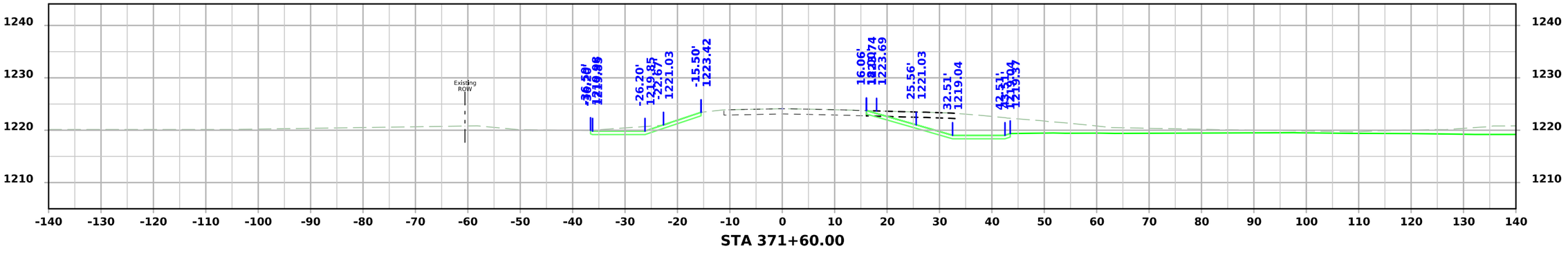
STA 371+00.00

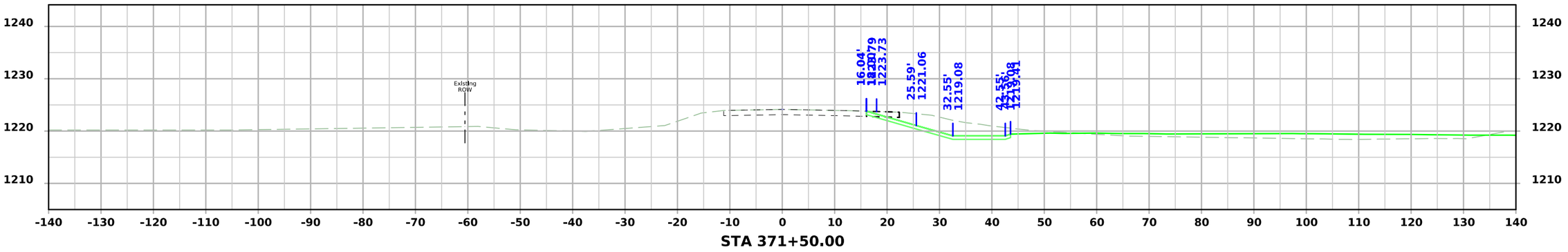
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.4	

10:31:57 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X02.dgn

220th St (SR220E)



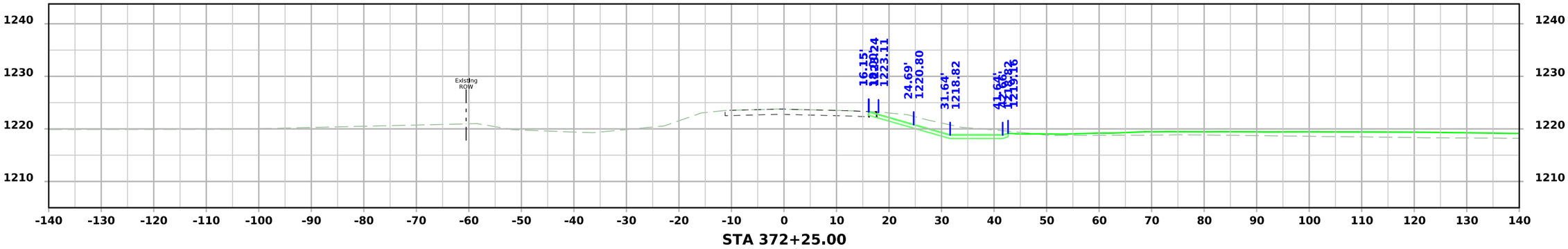




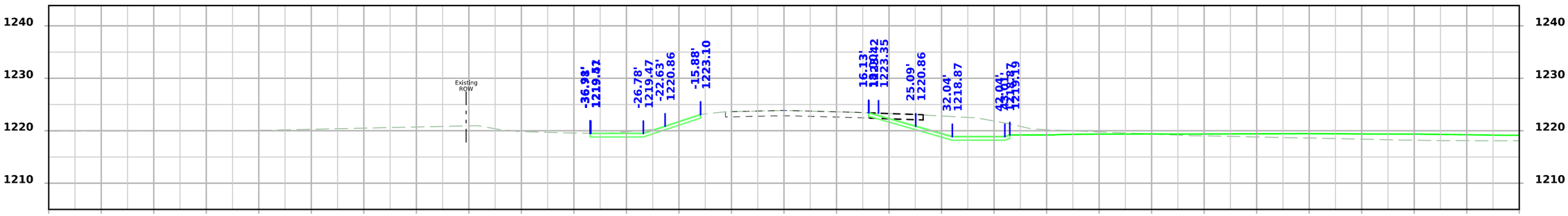
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.5

10:31:58 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X02.dgn

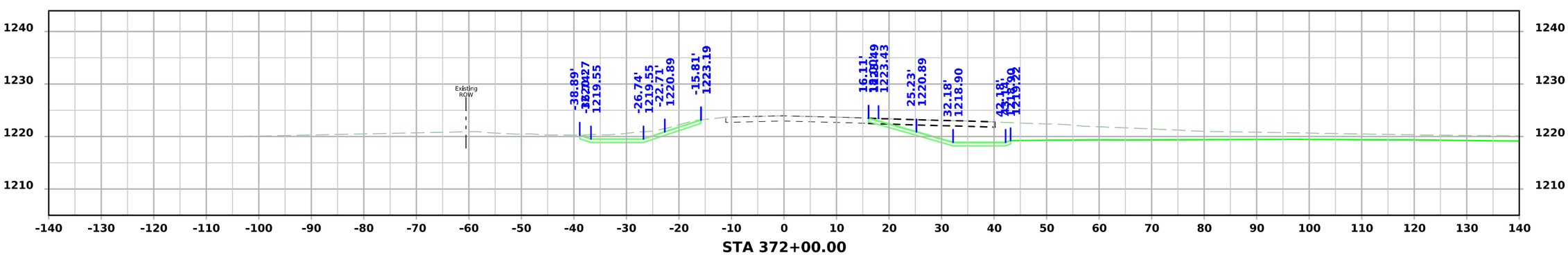
220th St (SR220E)



STA 372+25.00



STA 372+10.00

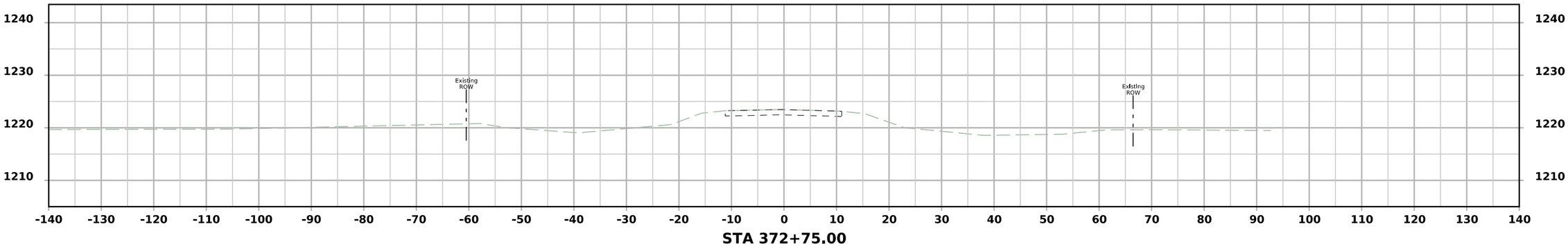


STA 372+00.00

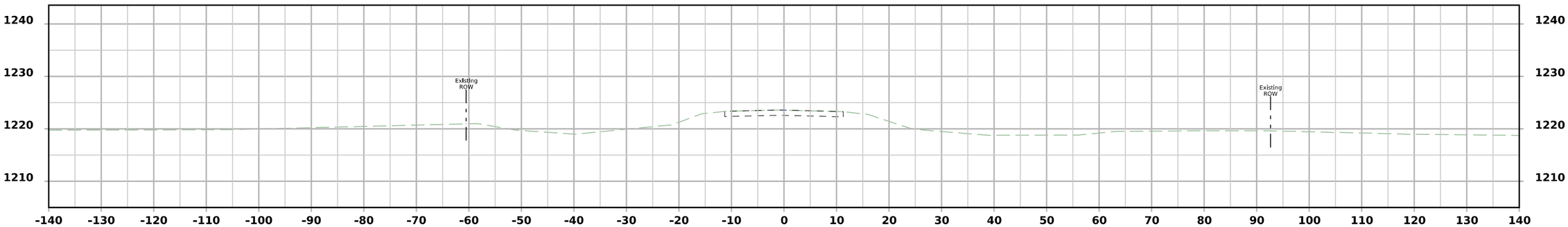
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.6

10:31:59 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X02.dgn

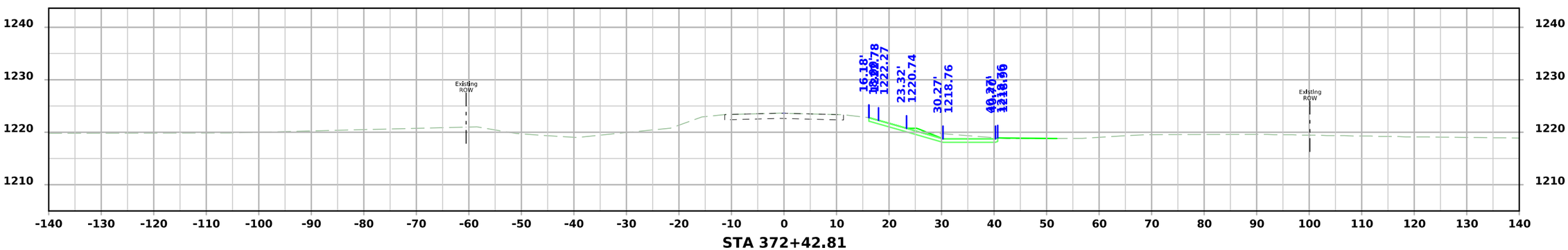
220th St (SR220E)



STA 372+75.00



STA 372+50.00

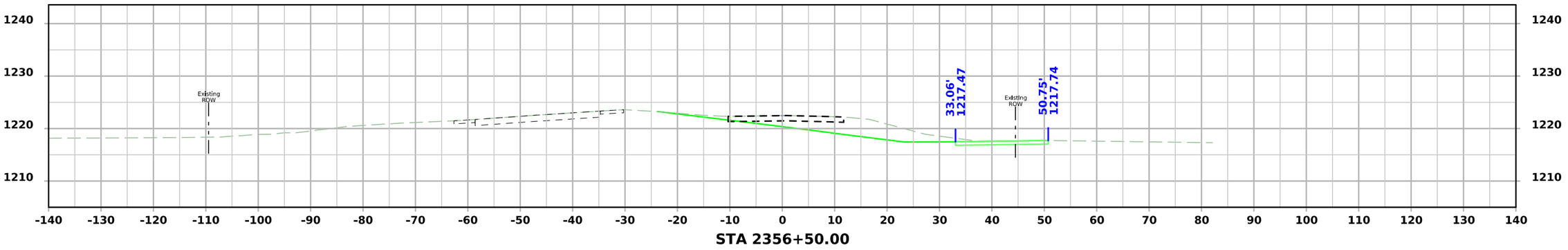


STA 372+42.81

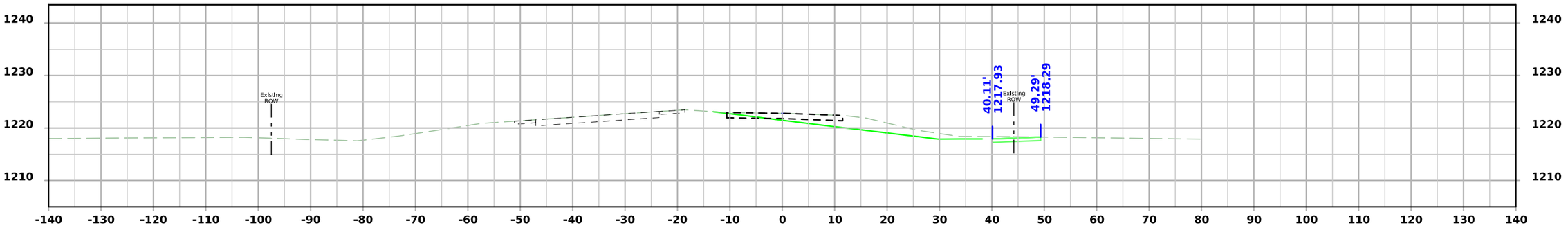
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.7

10:32:00 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X02.dgn

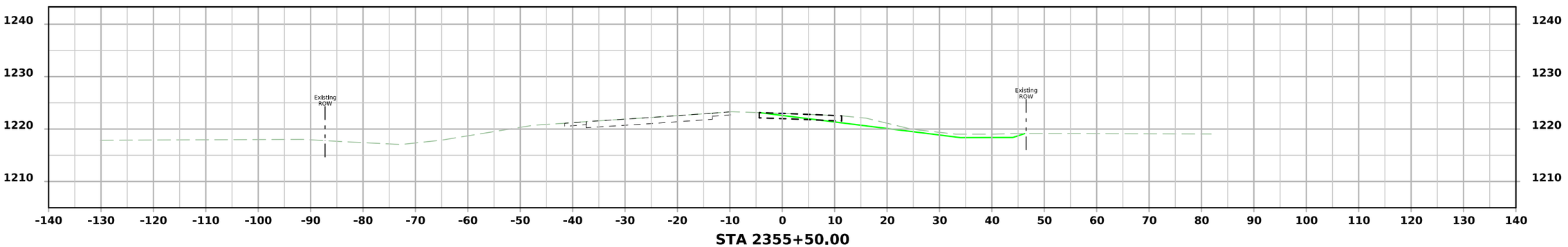
Marshall Ave



STA 2356+50.00



STA 2356+00.00

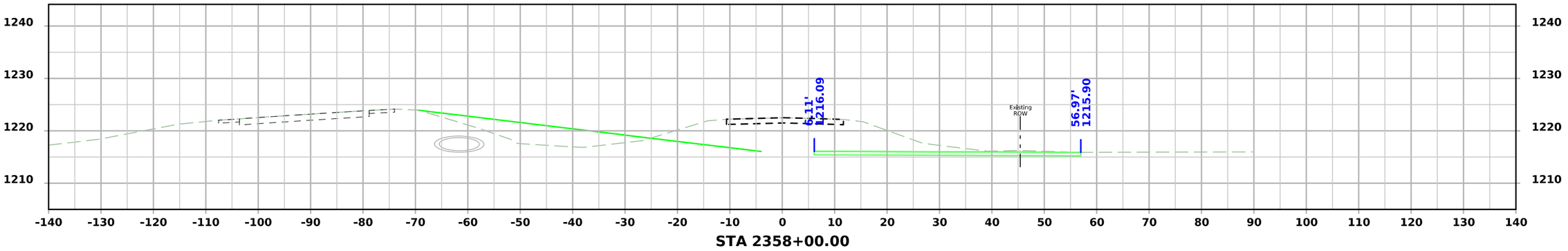


STA 2355+50.00

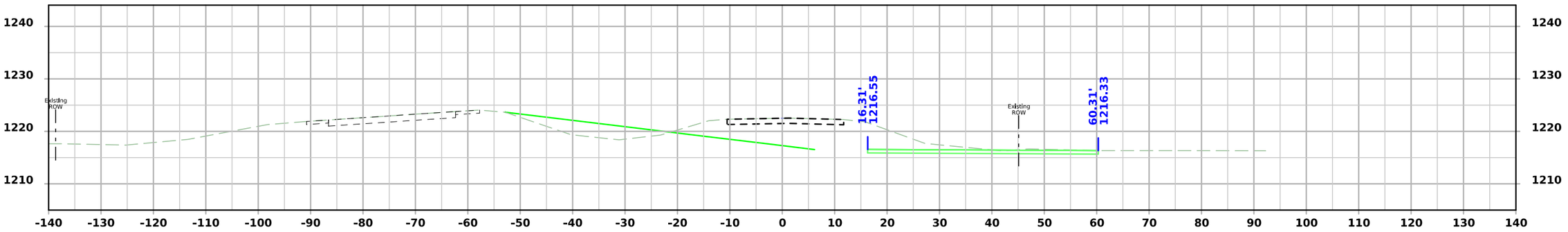
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.8	

10:32:06 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X03.dgn

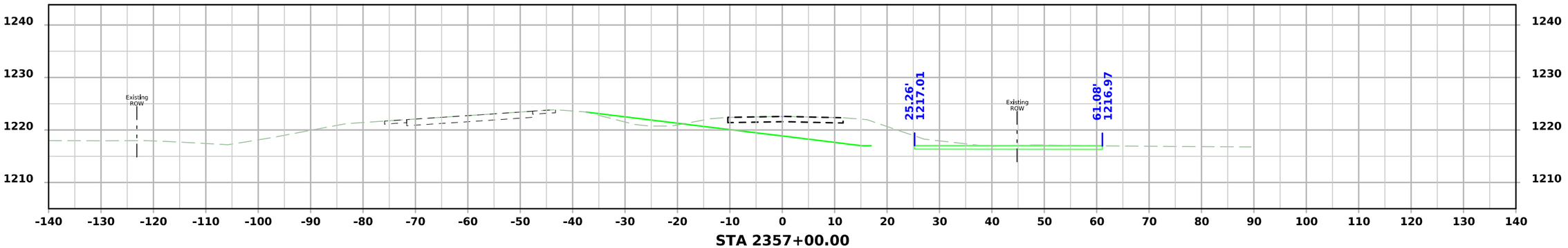
Marshall Ave



STA 2358+00.00



STA 2357+50.00

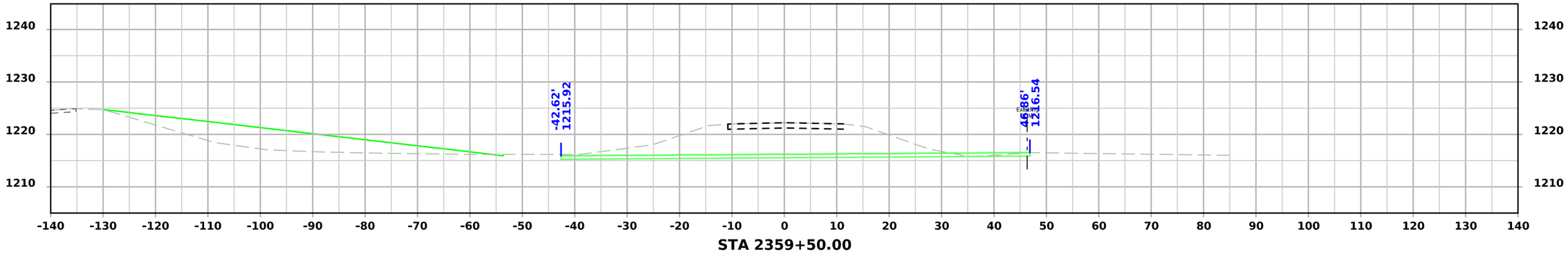


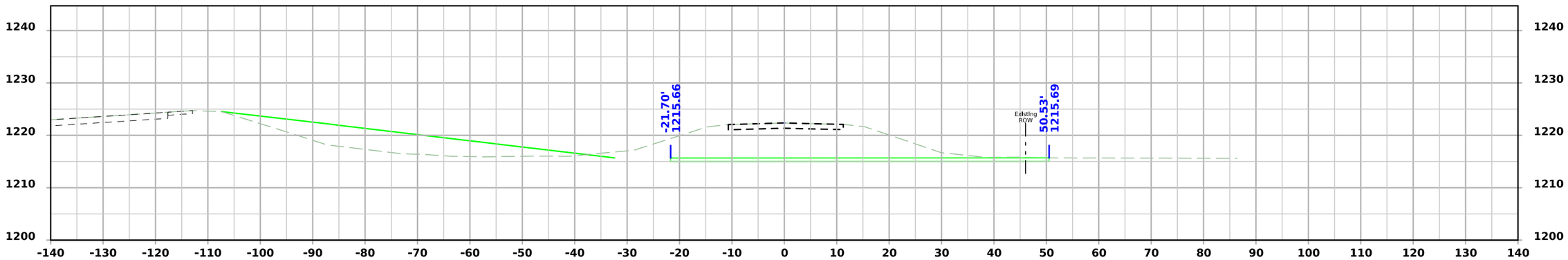
STA 2357+00.00

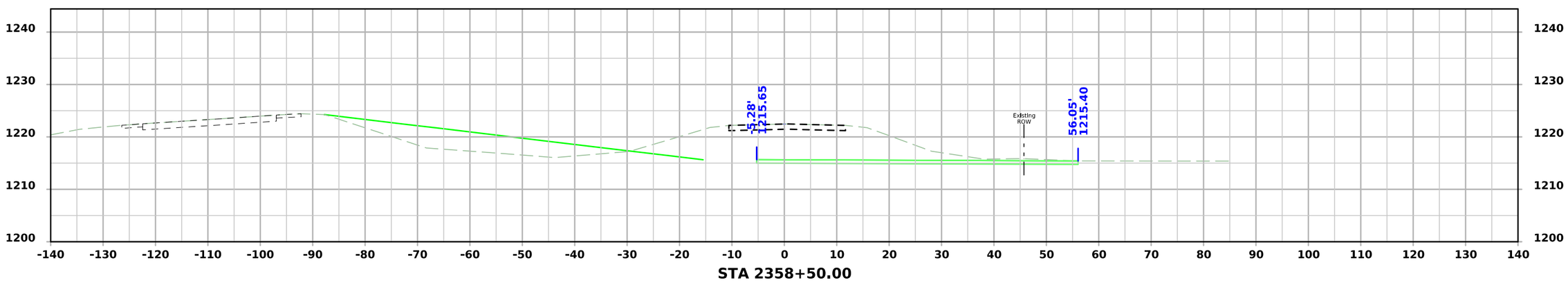
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.9

10:32:07 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X03.dgn

Marshall Ave



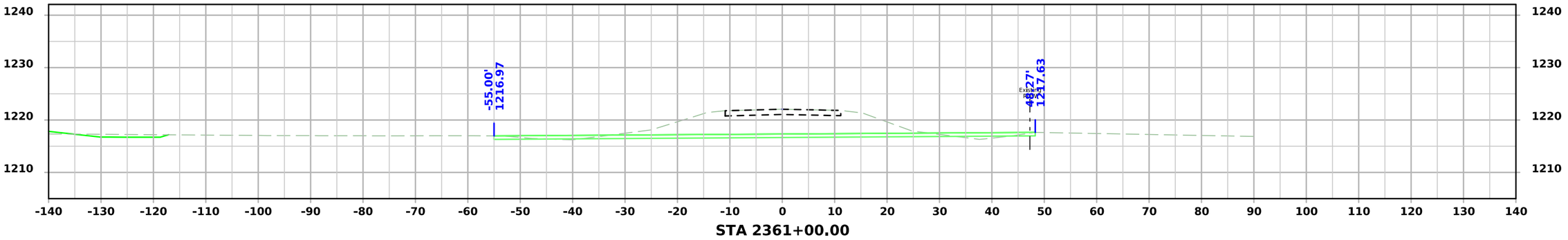




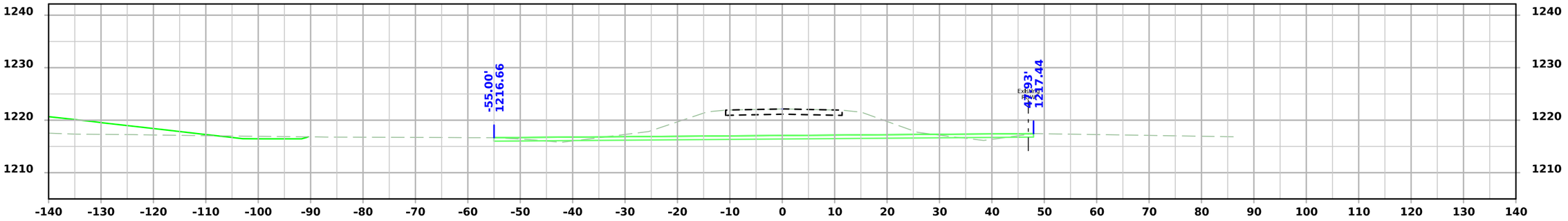
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.10	

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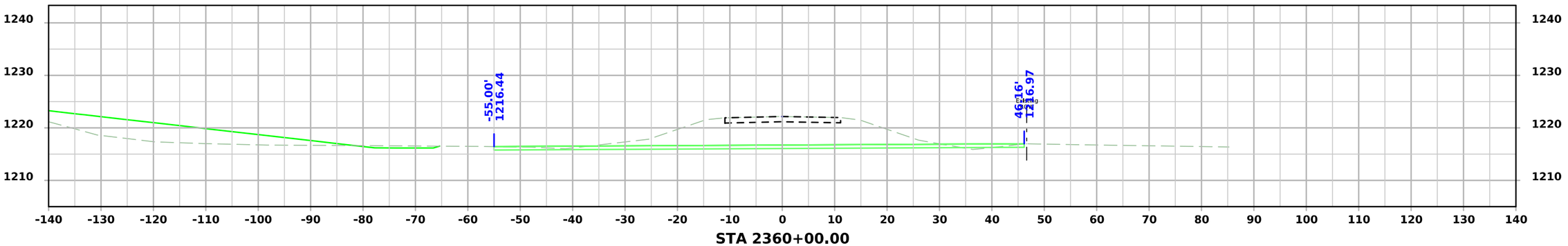
Marshall Ave



STA 2361+00.00



STA 2360+50.00

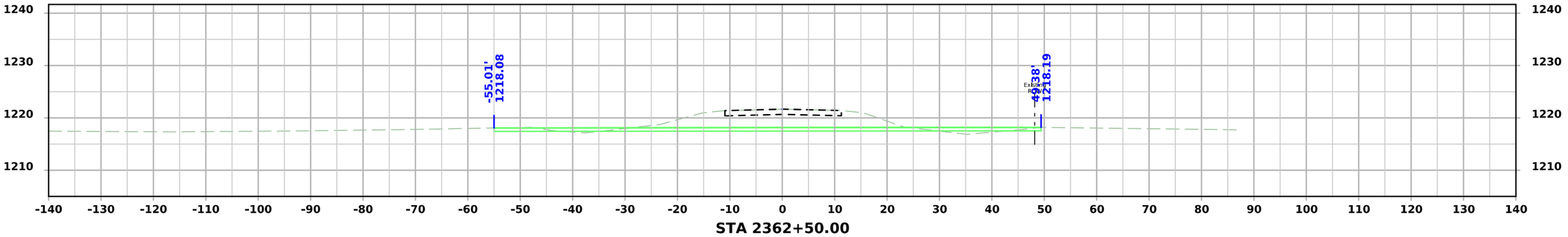


STA 2360+00.00

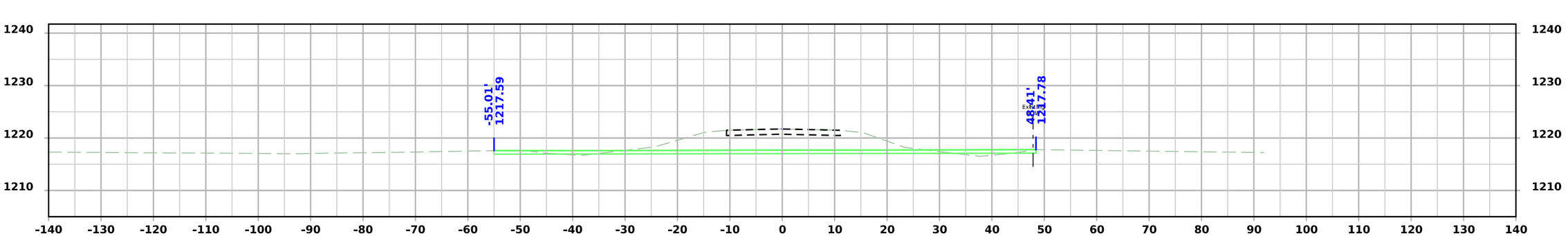
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.11	

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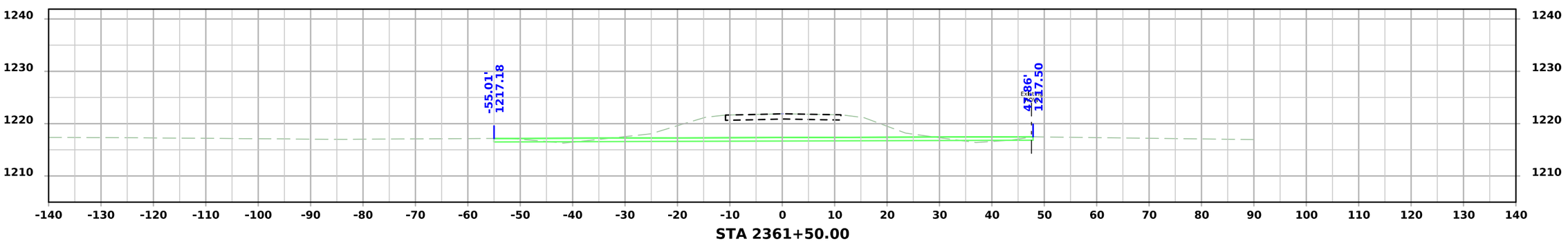
Marshall Ave



STA 2362+50.00



STA 2362+00.00

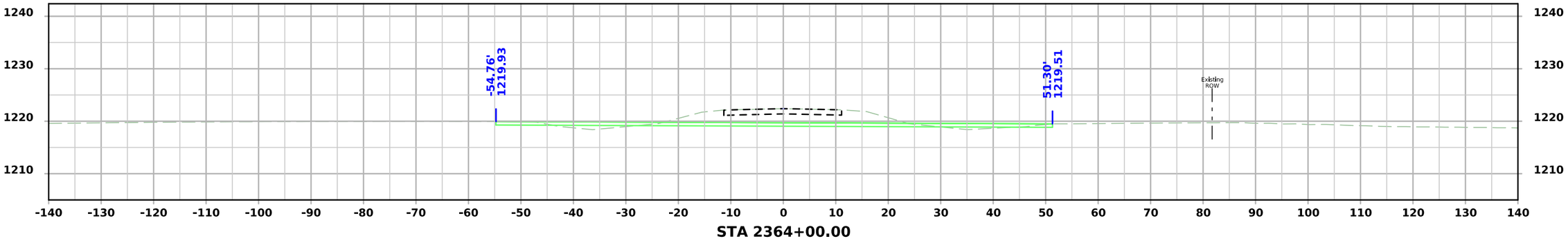


STA 2361+50.00

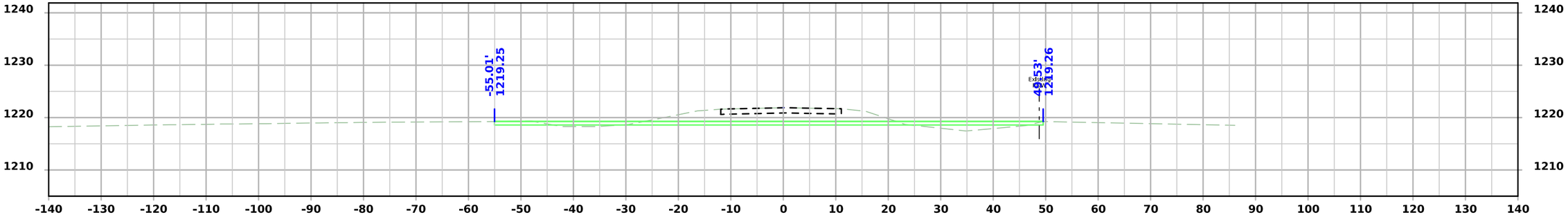
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.12	

10:32:09 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X03.dgn

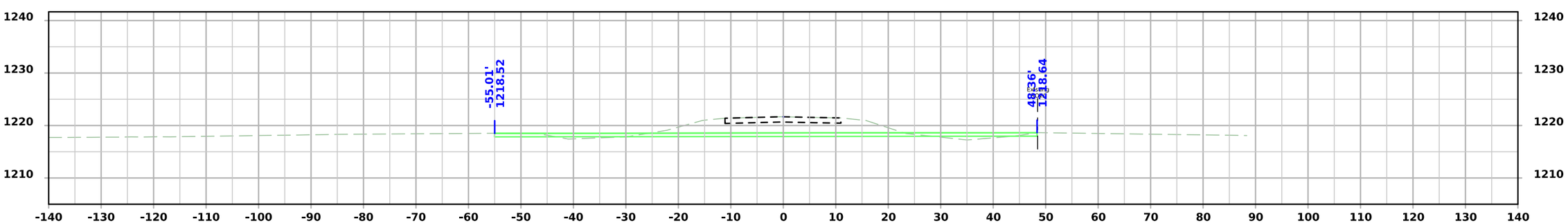
Marshall Ave



STA 2363+50.00



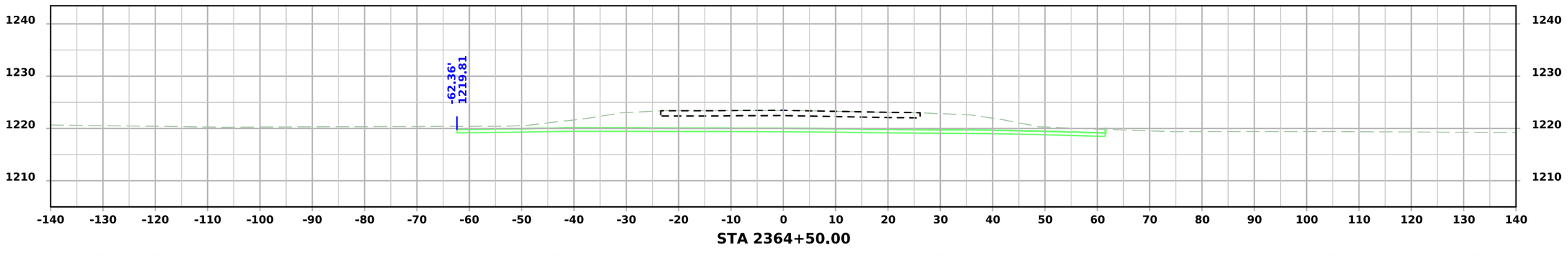
STA 2363+00.00



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.13	

10:32:10 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X03.dgn

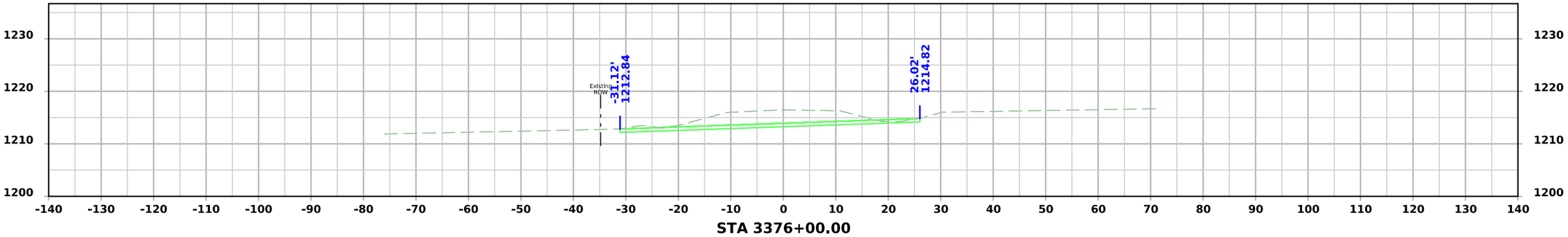
Marshall Ave



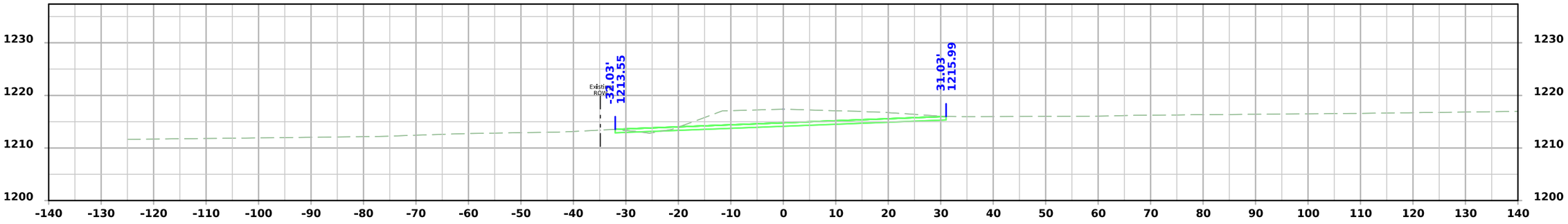
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.14

10:32:10 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X03.dgn

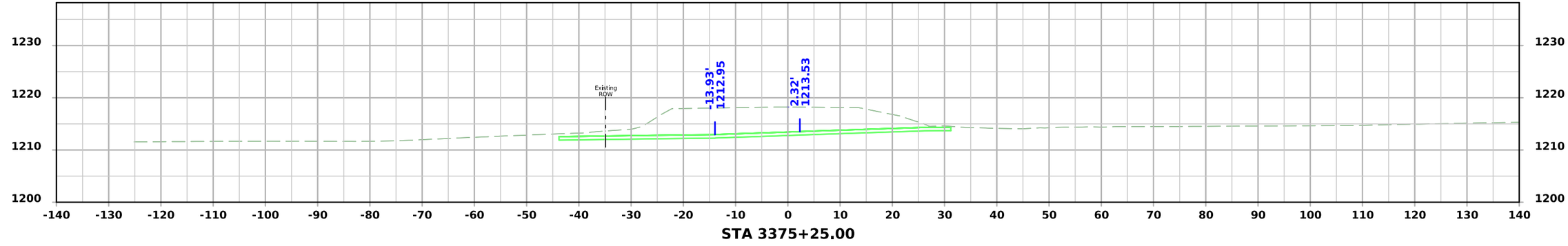
Marengo Ave



STA 3376+00.00



STA 3375+50.00

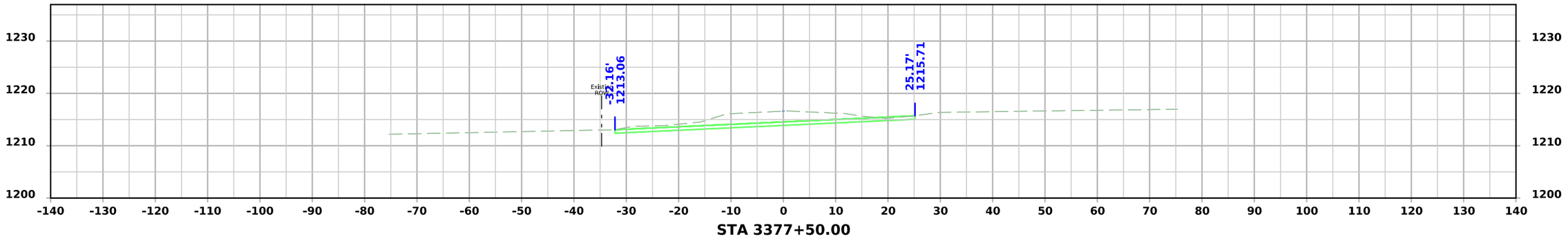


STA 3375+25.00

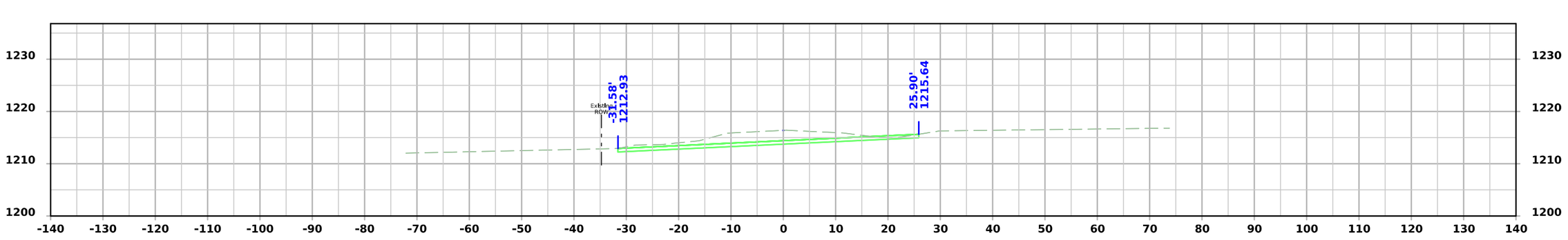
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.15

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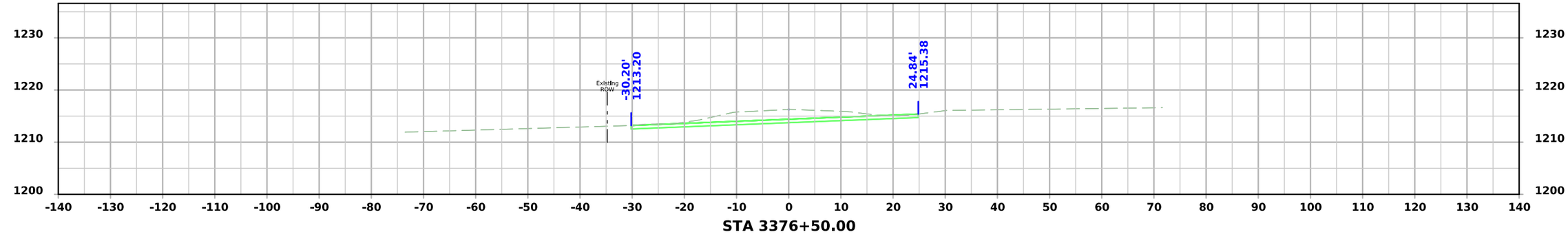
Marengo Ave



STA 3377+50.00



STA 3377+00.00

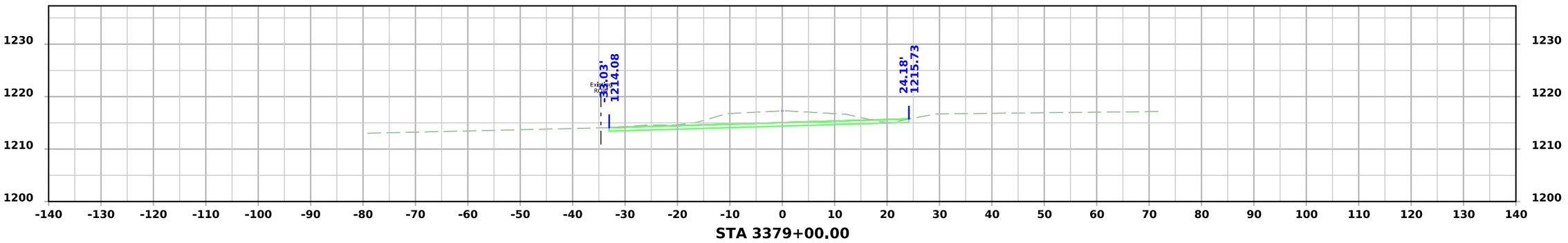


STA 3376+50.00

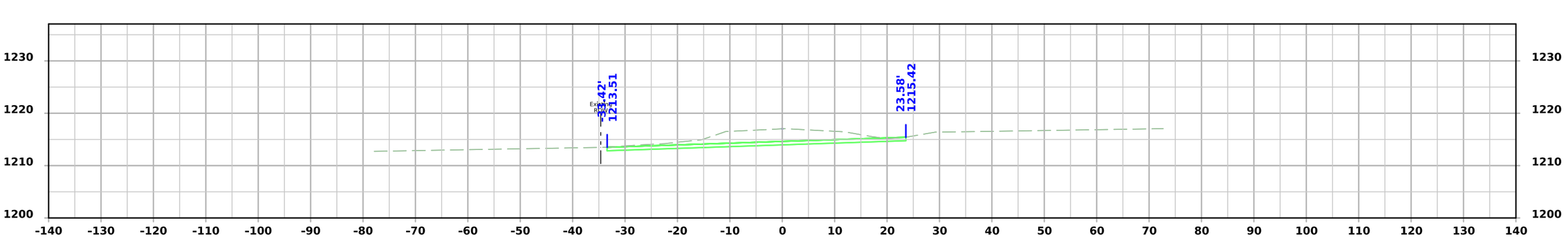
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.16

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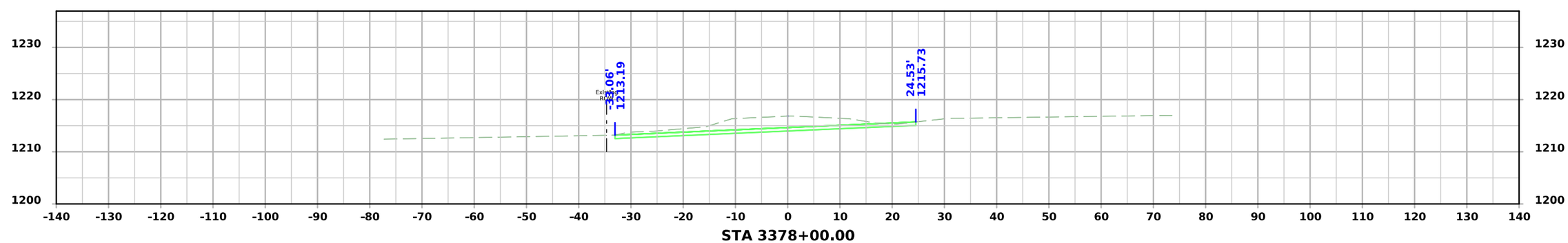
Marengo Ave



STA 3379+00.00



STA 3378+50.00

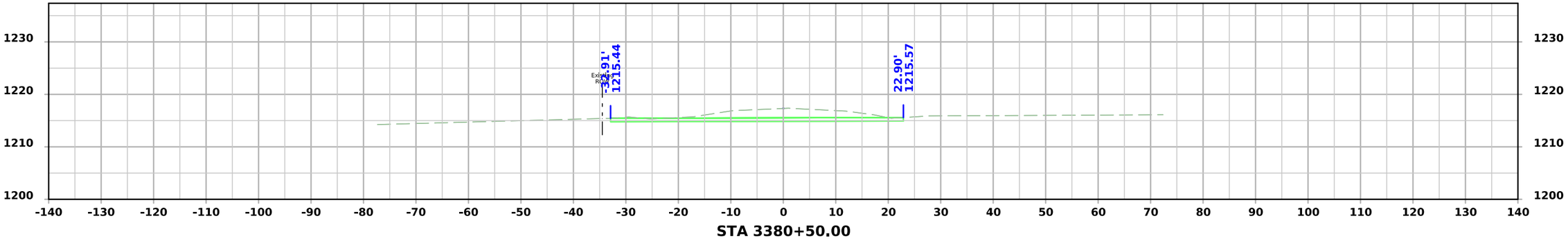


STA 3378+00.00

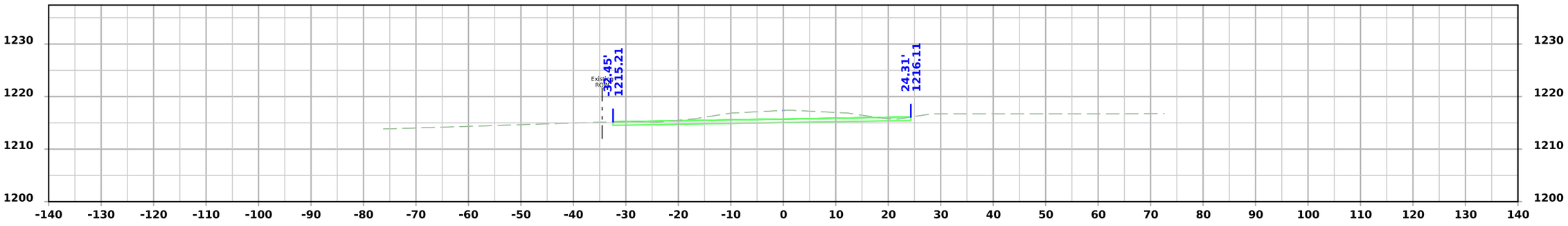
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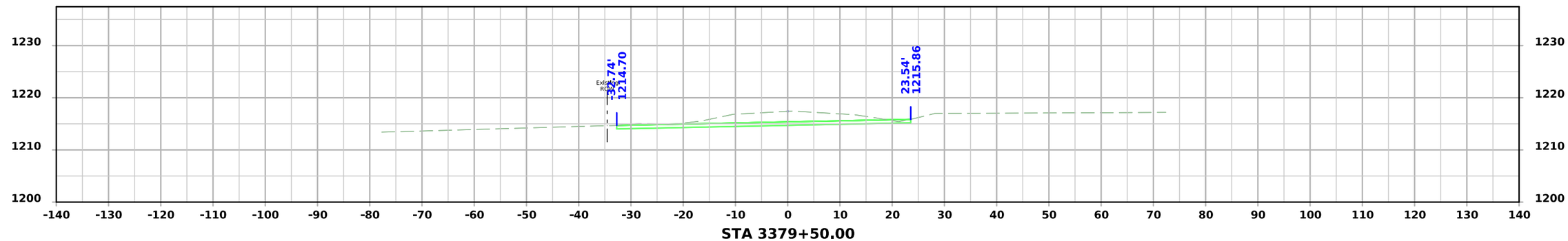
Marengo Ave



STA 3380+50.00



STA 3380+00.00

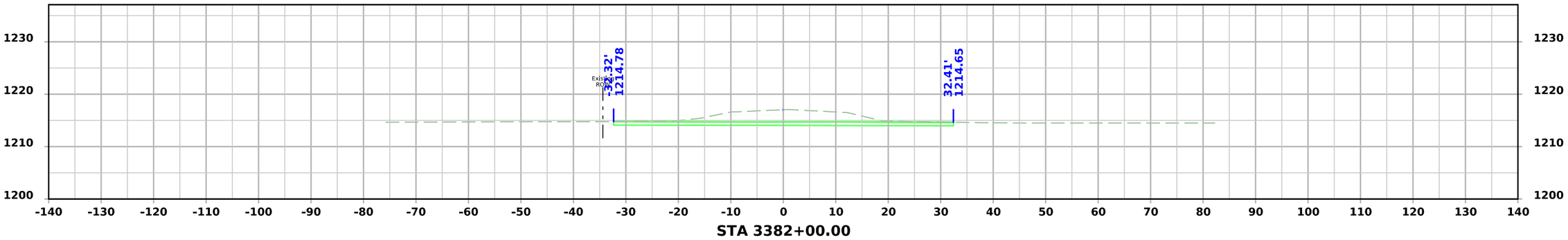


STA 3379+50.00

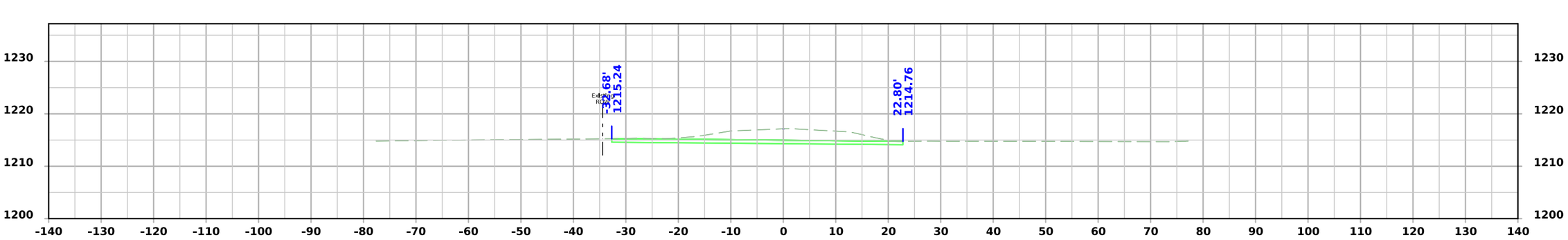
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.18

10:32:17 AM 8/24/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1300403026\Design\STPN-004-3(039)--2J-13\CADD_Files\Sheet_Files\SHT_13004039Z04_X04.dgn

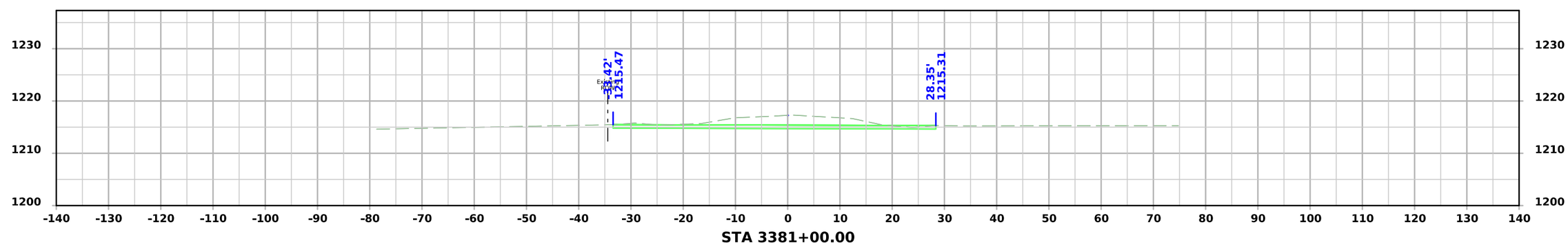
Marengo Ave



STA 3382+00.00



STA 3381+50.00

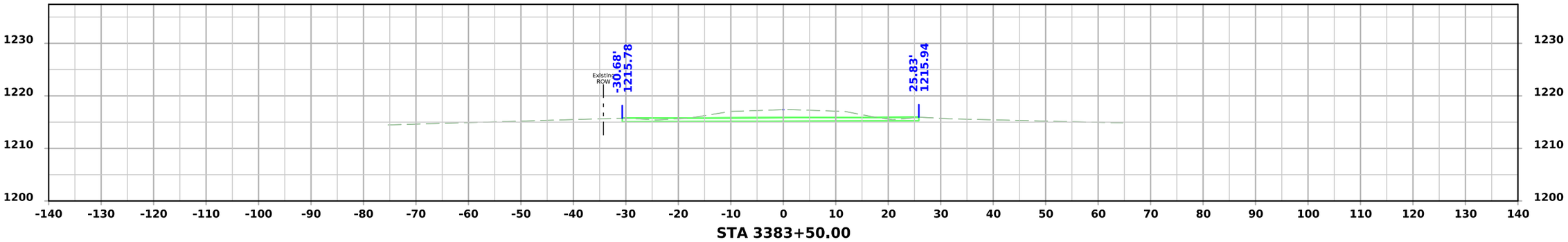


STA 3381+00.00

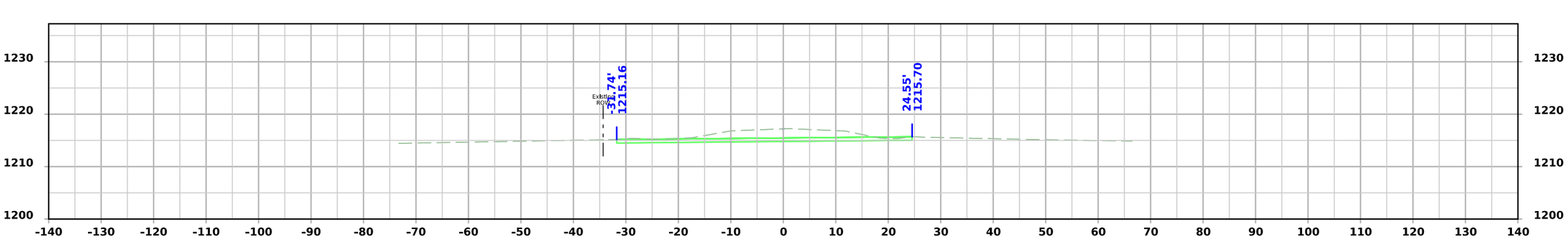
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.19

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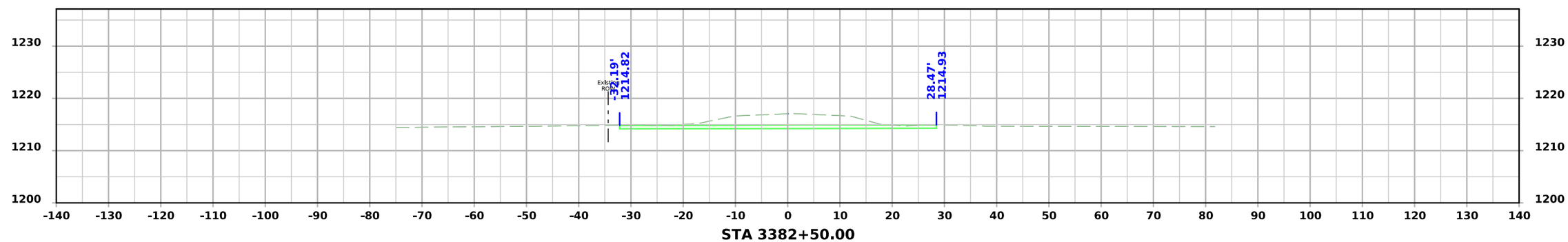
Marengo Ave



STA 3383+50.00



STA 3383+00.00

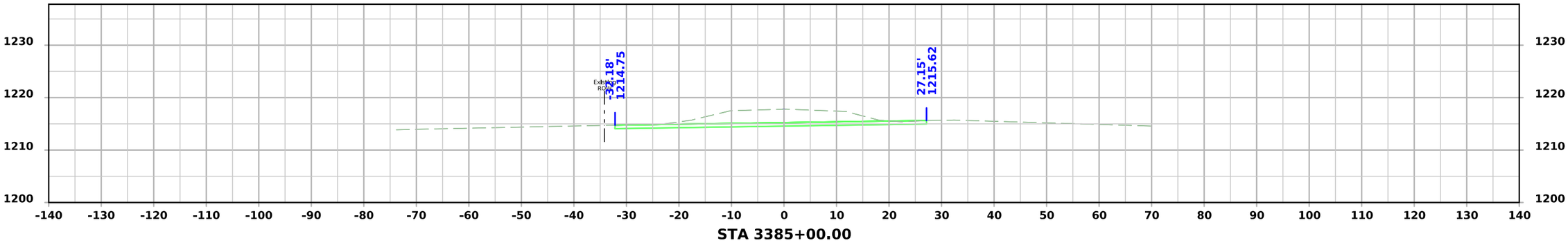


STA 3382+50.00

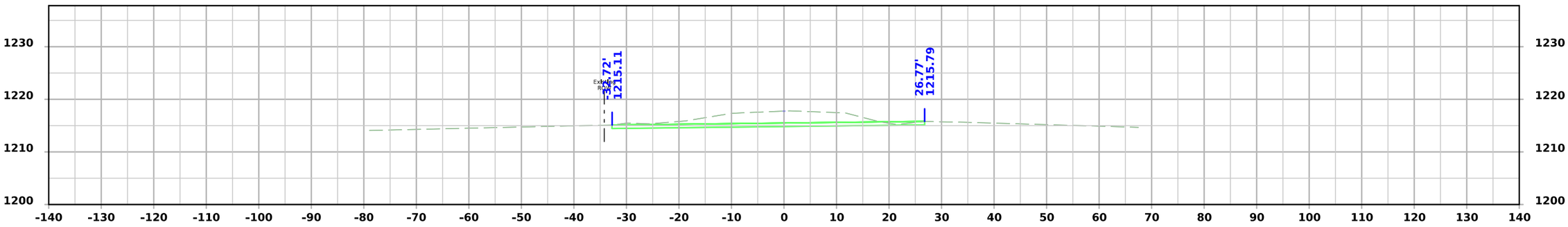
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.20

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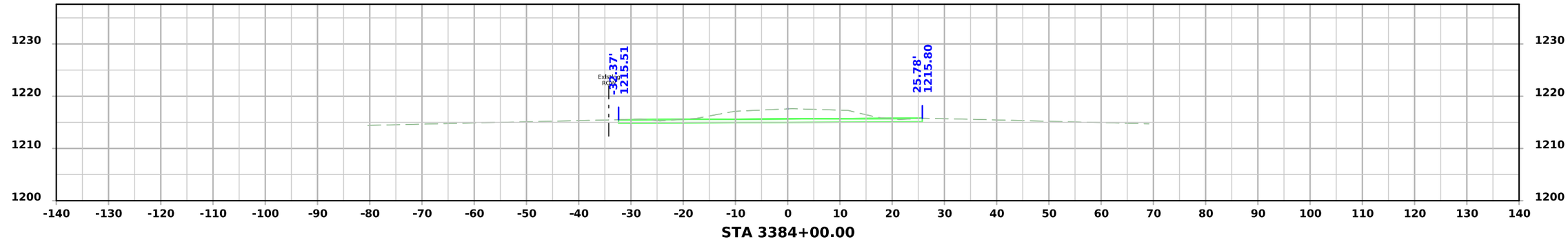
Marengo Ave



STA 3385+00.00



STA 3384+50.00

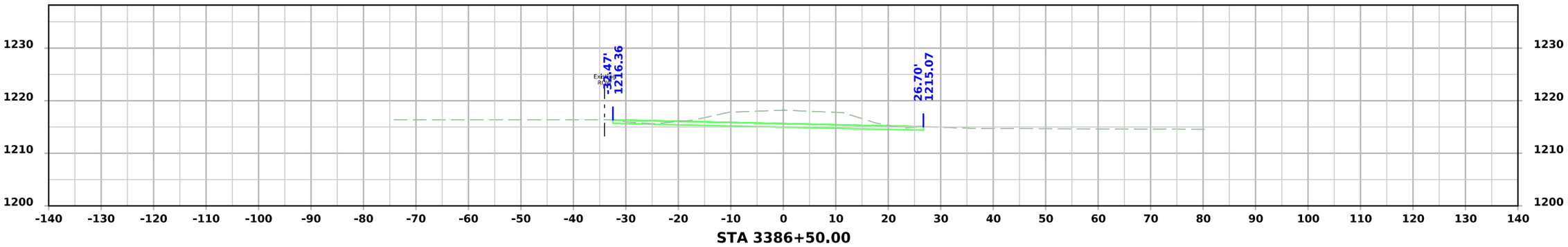


STA 3384+00.00

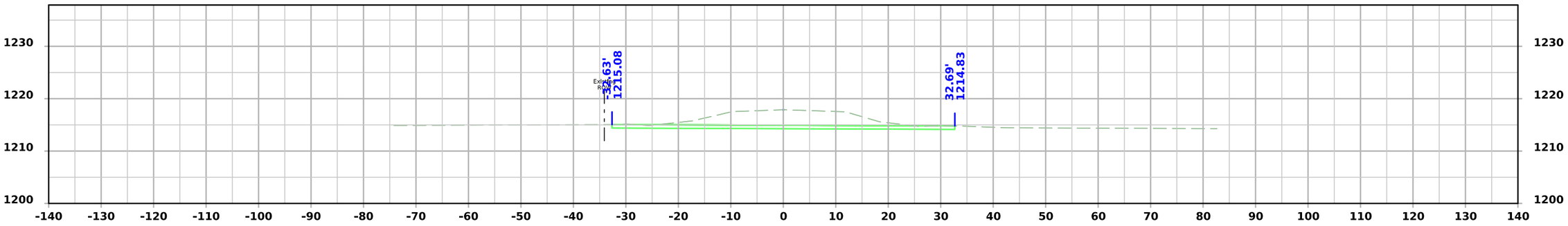
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.21

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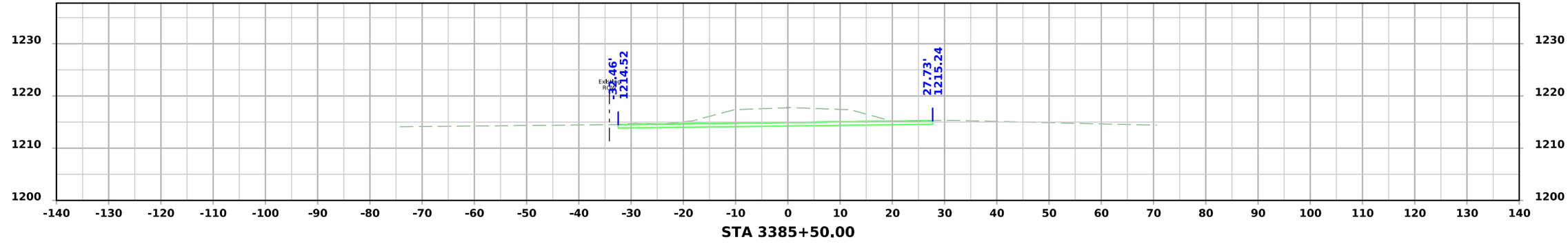
Marengo Ave



STA 3386+50.00



STA 3386+00.00

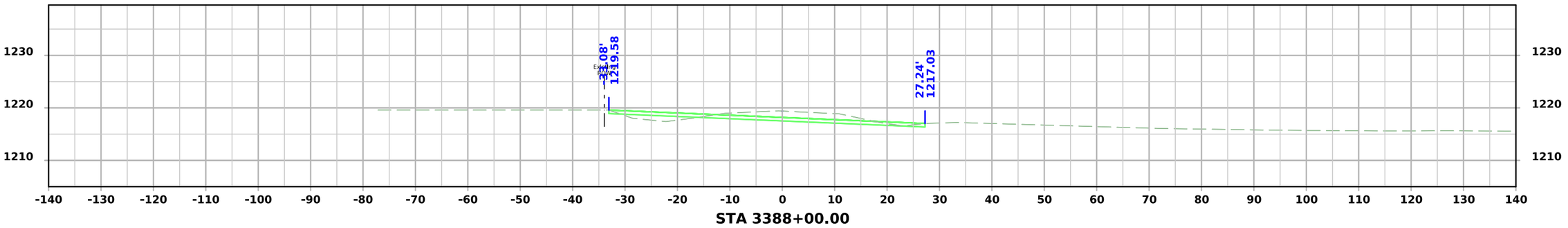


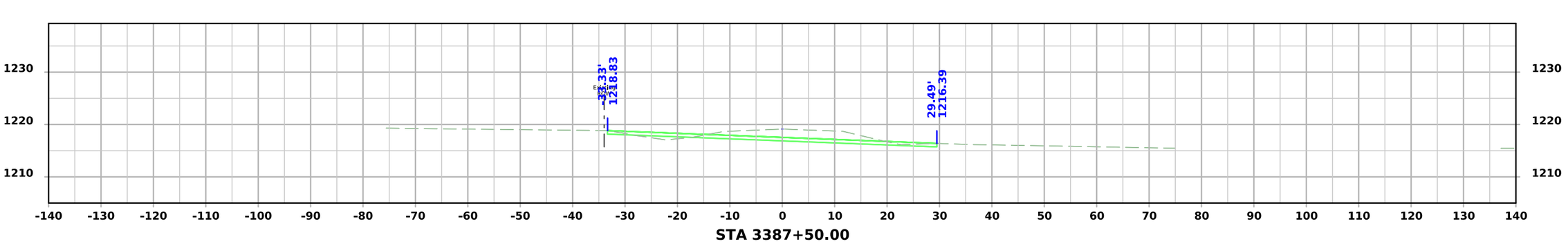
STA 3385+50.00

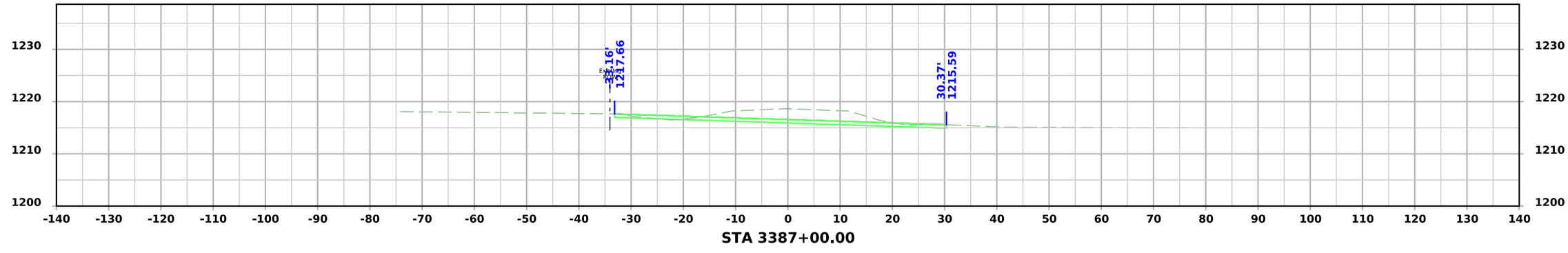
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.22

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Marengo Ave



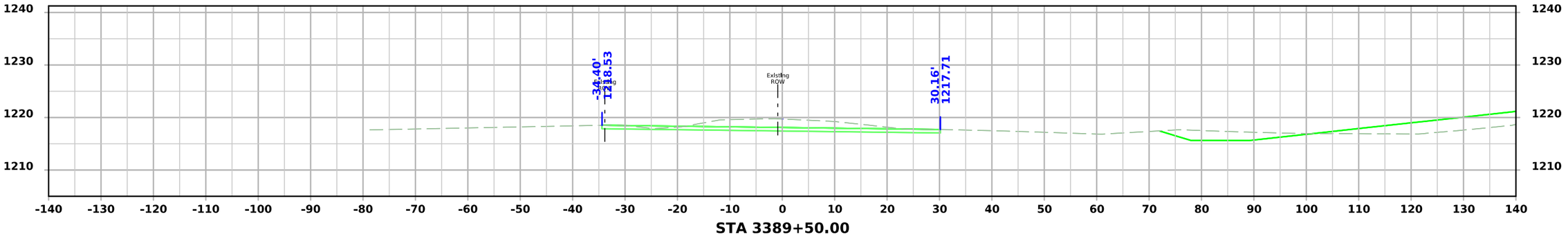




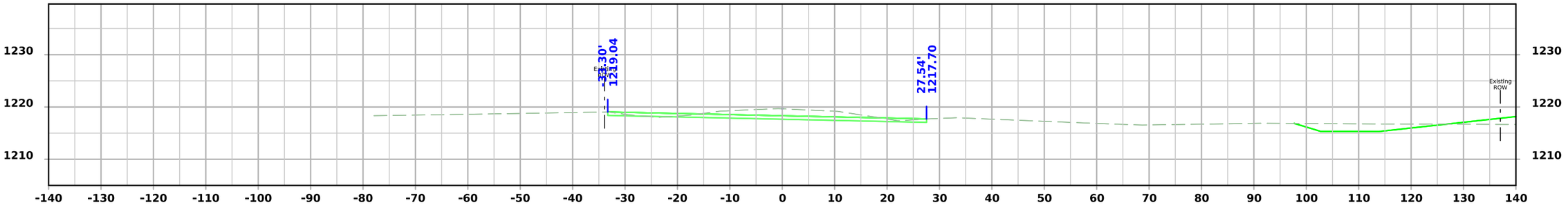
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.23

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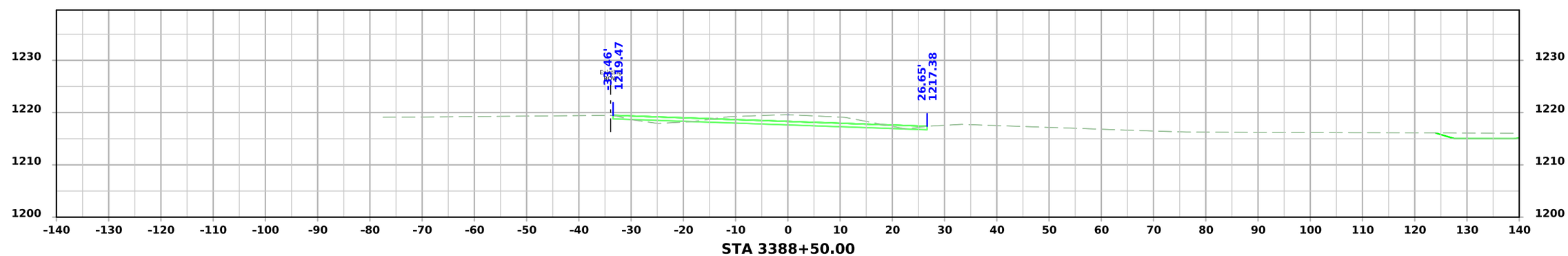
Marengo Ave



STA 3389+50.00



STA 3389+00.00

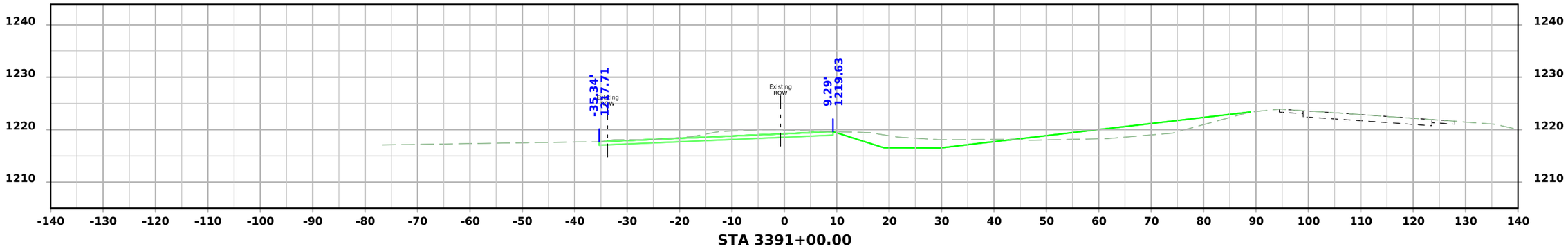


STA 3388+50.00

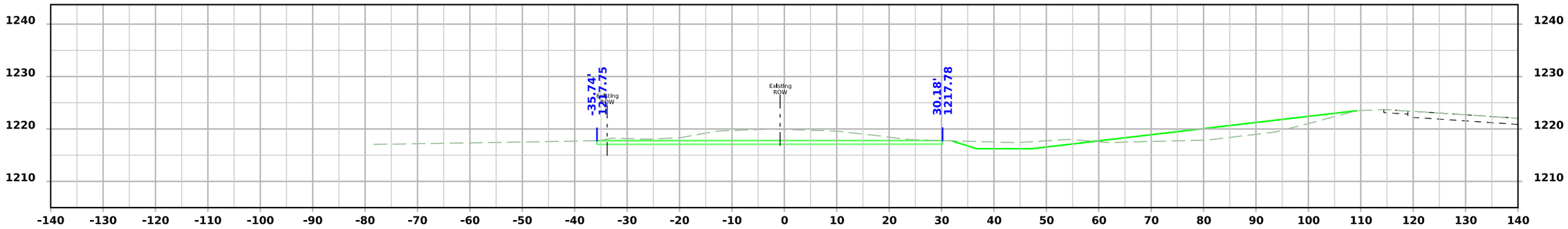
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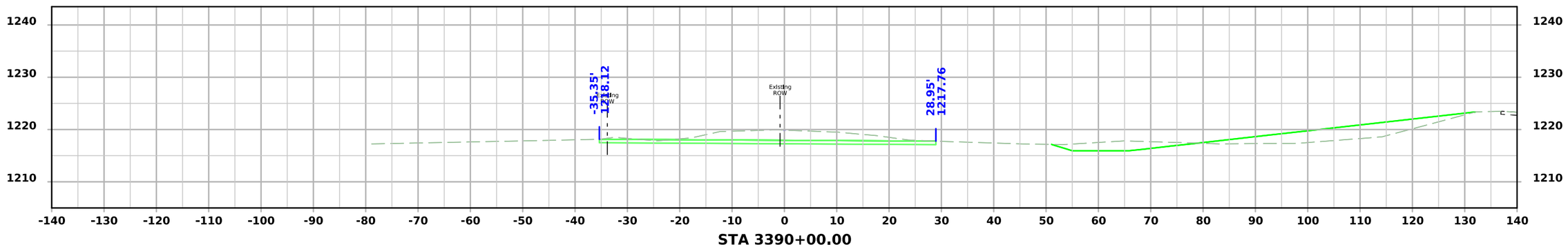
Marengo Ave



STA 3391+00.00



STA 3390+50.00

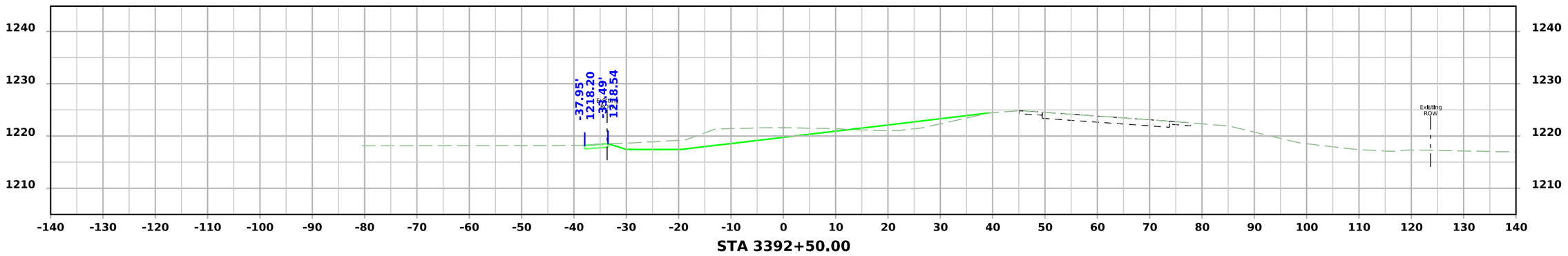


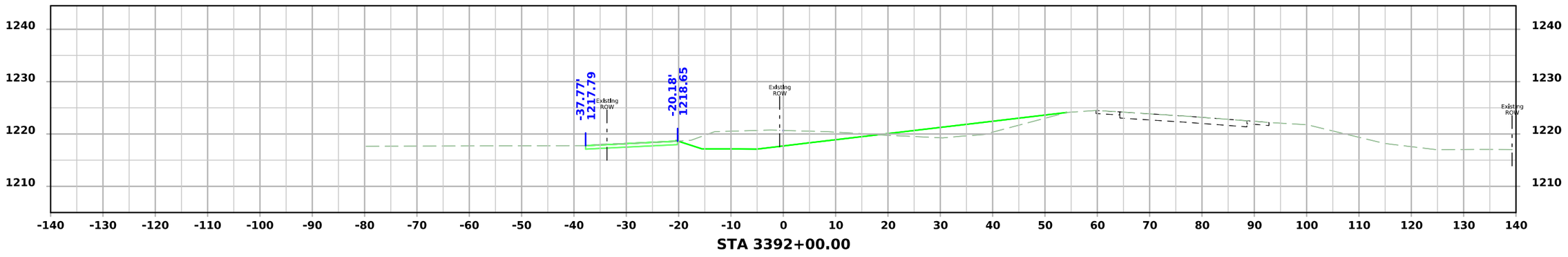
STA 3390+00.00

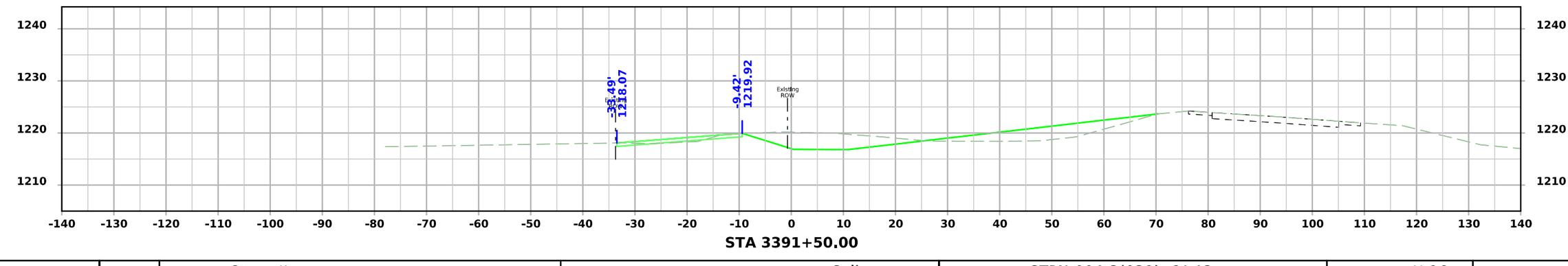
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.25

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Marengo Ave



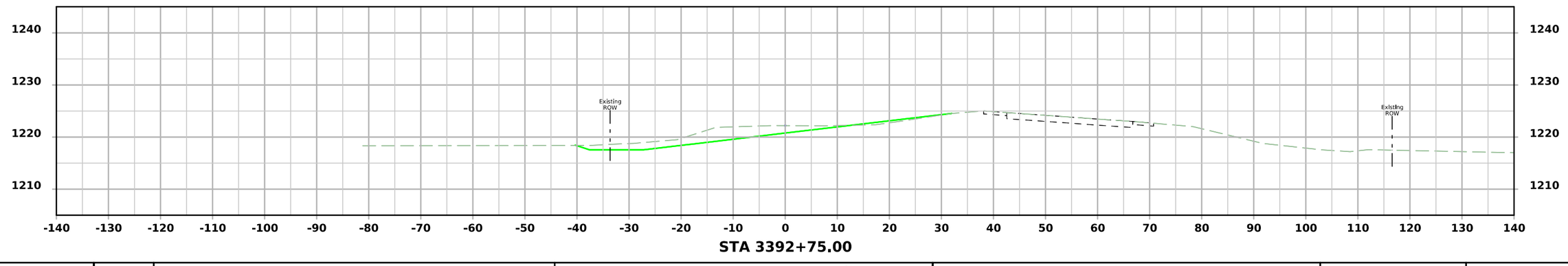




FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.26

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Marengo Ave



STA 3392+75.00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	Calhoun COUNTY	PROJECT NUMBER STPN-004-3(039)--2J-13	SHEET NUMBER X.27

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