PCC PAVEMENT - GRADE AND REPLACE
RP-007-2(038)--16-11

LETTING DATE
July 20 2027

BUENA VISTA 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 - B.5	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - D.7	IA 7
E Sheets	Sideroad Plan and Profile Sheets
* E.1	70th Avenue/Villa Road
* E.2	80th Avenue
* E.3	St. Andrew's Court
* E.4	St. Andrew's Drive
G Sheets	Survey Sheets
* G.1 - G.4	Reference Ties and Bench Marks
G.5 - G.6	Horizontal Control Tab. and Super
J Sheets	Traffic Control and Staging Sheets
J.1 - J.3	Traffic Control Plan, Staging Notes and Tabulations
* J.4	Traffic Control & Staging Legend & Symbol Info. Sheet
* J.5 - J.28	Staging and Traffic Control Sheets
* J.29	Detour Sheets
M Sheets	Storm Sewer Sheets
* M.1 - M.3	Storm Sewer Plan and Profile Sheets
P Sheets	Lighting Sheets
* P.1 - P.2	Lighting Plans
U Sheets	Modified Standards and Detail Sheets
* U.1 - U.6	CN Railroad Crossing Details
VW/VX Sheets	Culvert Situation Plans
* VW.1	IA 7 Culverts
* VX.1 - VX.3	Side Road Culverts
W Sheets	Mainline Cross Sections
* W.1	Cross Sections Legend
* W.2 - W.117	IA 7 Cross Sections
X Sheets	Sideroad Cross Sections
* X.1 - X.8	70th Avenue/Villa Road Cross Sections
* X.9 - X.24	80th Avenue Cross Sections

* Color Plan Sheets

IOWA DOT

REVISIONS

TOTAL 205
PROJECT IDENTIFICATION NUMBER
25-11-007-040
PROJECT NUMBER
RP-007-2(038)--16-11
R.O.W. PROJECT NUMBER
STPN-007-2(041)--2J-11

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
BUENA VISTA COUNTY
PCC PAVEMENT - GRADE AND REPLACE

IA 7 CORRIDOR AND INTERSECTION IMPROVEMENTS
W of 70th Ave. to E of 80th Ave.

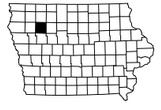
SCALES: As Noted

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.

For Project Location Map
Refer to Sheet No. A.2



IA 7
DESIGN DATA RURAL

2027	AADT	5600	V.P.D.
2047	AADT	5900	V.P.D.
2047	DHV	590	V.P.H.
TRUCKS		5	%
Total Design	ESALs	-	

70th Avenue
DESIGN DATA RURAL

2027	AADT	111	V.P.D.
2047	AADT	119	V.P.D.
2047	DHV	10	V.P.H.
TRUCKS		48	%
Total Design	ESALs	-	

80th Avenue
DESIGN DATA RURAL

2027	AADT	56	V.P.D.
2047	AADT	59	V.P.D.
2047	DHV	5	V.P.H.
TRUCKS		47	%
Total Design	ESALs	-	

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1		Primary Signature Block	

PRELIMINARY PLANS

Subject to change by final design.

REVISED D5 PLANS
06/12/2026

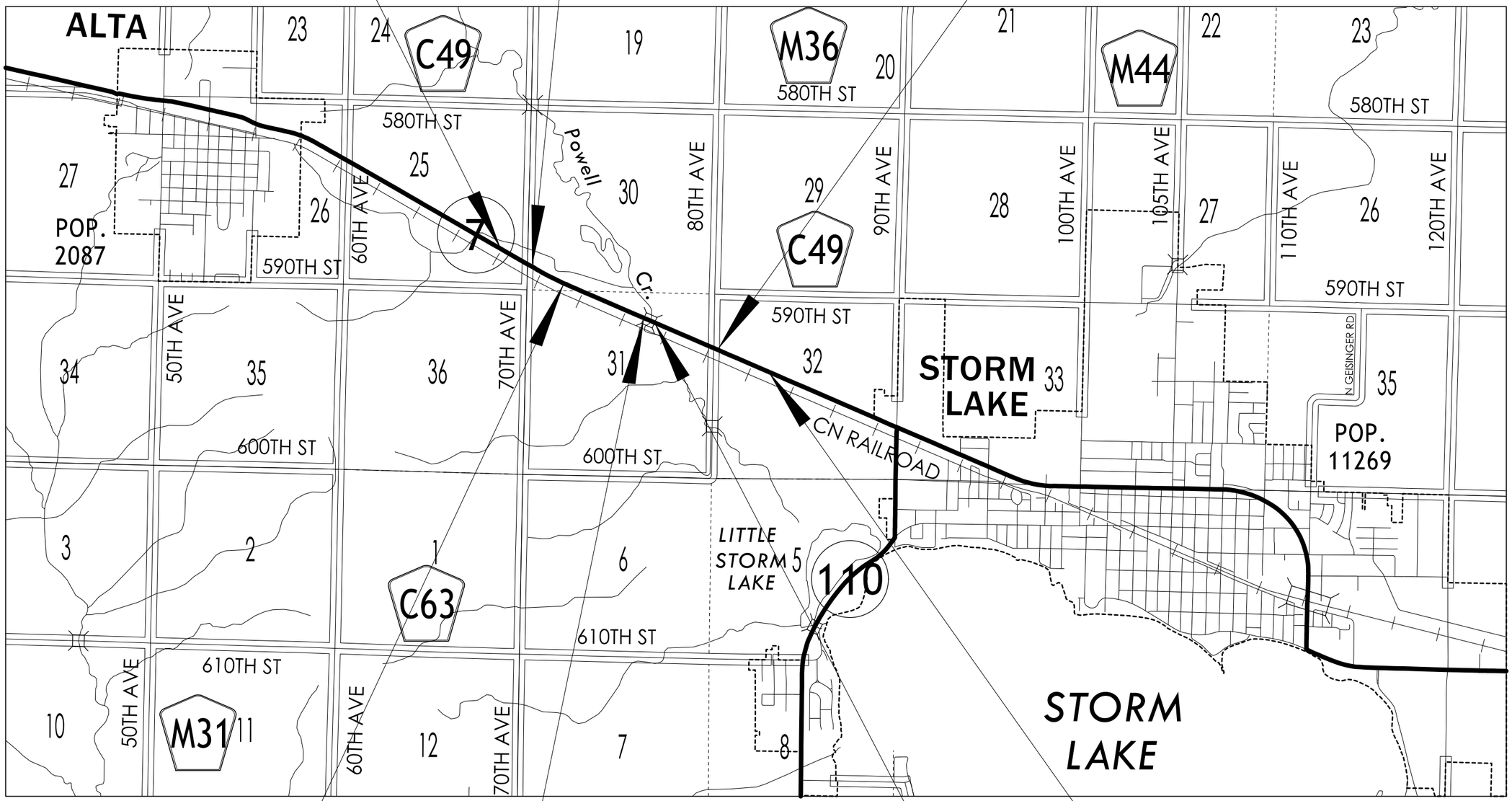
FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER A.1

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BEGIN CONSTRUCTION
BEGIN RP-007-2(038)--16-11
STA. 527+50.00

CN RAILROAD AT-GRADE CROSSING
CHEROKEE SUBDIVISION
MP 432.21 ; DOT #307522A

CN RAILROAD AT-GRADE CROSSING
CHEROKEE SUBDIVISION
MP 431.10 ; DOT #307520L



STA. 548+77.46
END OF RP-007-2(038)--16-11
BEGIN STPN-007-2(040)--2J-11

STA. 574+45.95
END OF STPN-007-2(040)--2J-11

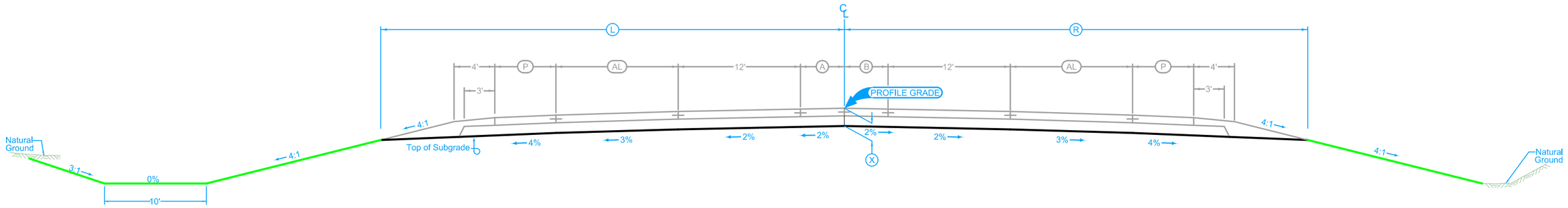
LOCATION MAP SCALE
0 0.5 1
Mile

STA. 574+85.88
BEGIN STPN-007-2(039)--2J-11

END CONSTRUCTION
END STPN-007-2(039)--2J-11
STA. 613+60.89

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **A.2**

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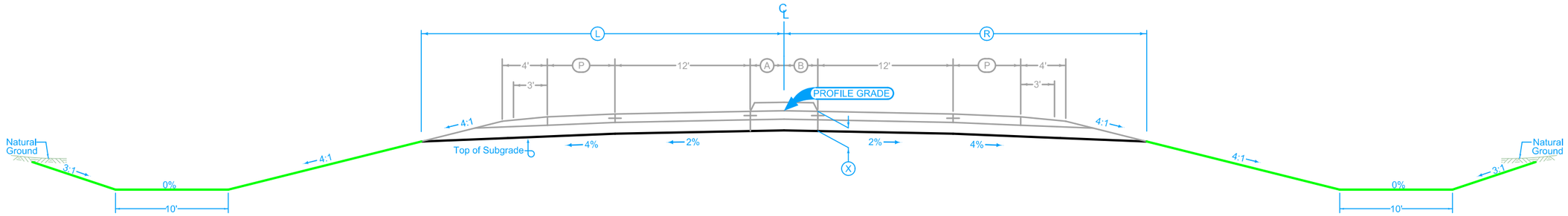
LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches
IA 7 (ML007)	527+50.00	529+30.50	29.2-30.6	29.2	21
IA 7 (ML007)	529+30.50	530+95.50	30.6-34.2	29.2-37.4	21
IA 7 (ML007)	530+95.50	533+88.70	34.2-41.2	37.4-38.2	21
IA 7 (ML007)	533+88.70	535+23.63	41.2-41.5	38.2	21
70th Ave Intersection					
IA 7 (ML007)	537+80.88	539+64.11	48	40.6-29.2	21
IA 7 (ML007)	539+64.11	540+97.64	48-33.4	29.2	21
IA 7 (ML007)	540+97.64	548+66.26	33.4-29.2	29.2	21
St. Andrew's Drive Intersection					
IA 7 (ML007)	549+65.80	551+91.21	37.4-37.9	29.2	21
IA 7 (ML007)	551+91.21	553+91.96	37.9-29.2	29.2	21
IA 7 (ML007)	553+91.96	574+45.95	29.2	29.2-33.6	21
Existing RCB at Powell Creek					
IA 7 (ML007)	574+85.88	582+91.88	29.2	28.4-35.1	21
IA 7 (ML007)	582+91.88	586+70.25	29.2	35.1-46	21
IA 7 (ML007)	586+70.25	588+12.62	29.2	46-55.9	21
IA 7 (ML007)	588+12.62	592+31.93	29.2	89.8	21
IA 7 (ML007)	592+31.93	593+99.48	29.2-40.3	89.8	21
80th Ave Intersection					
IA 7 (ML007)	595+91.02	597+47.97	38.2	50.6-44.2	21
IA 7 (ML007)	597+47.97	599+25.00	38.2-29.2	44.2	21
IA 7 (ML007)	599+25.00	613+60.89	29.2	44.2	21

Section view is in direction of stationing.

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.

MAINLINE IA 7 GRADING



ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches
SR70th	1534+35.53	1535+02.59	33.5-33	32.6-37.3	21
IA 7 Intersection					
SR70th	1538+51.73	1539+60.00	66.1-27.2	27.2	21
SR80th	2596+50.00	2600+96.47	30-22	30-22	21
IA 7 Intersection					
SR80th	2603+14.88	2605+14.71	43.2-28	37.4-32	21
SR80th	2605+14.71	2608+09.44	28-30	32-28.3	21

70th Avenue/ Villa Road
80th Avenue
St. Andrews Drive

Section view is in the direction of stationing.

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

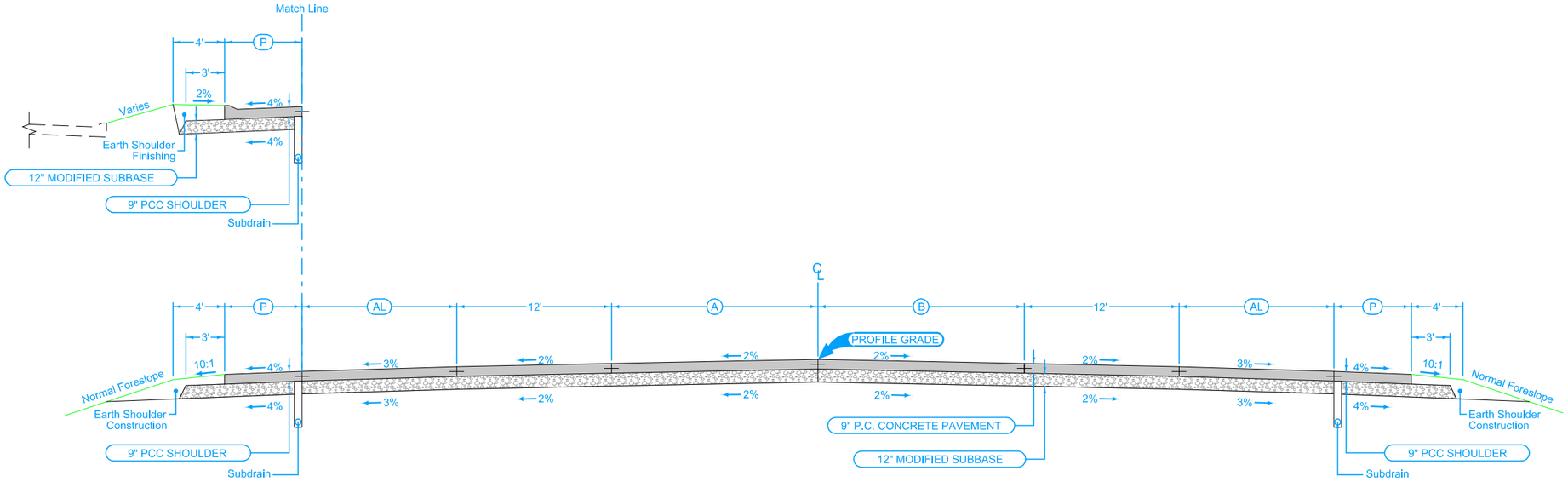
See plan & profile sheets and cross sections for additional details of ditches and backslopes.

SIDEROAD GRADING

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: Match Mainline

STATION TO STATION		(P) Feet
536+65.61	537+44.01	4-11
537+44.01	538+90.45	4



Auxiliary Lane and Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: Match Mainline

STATION TO STATION		(AL) Feet	(P) Feet
527+50.00	534+59.82	0	6
70th Ave Intersection			
538+90.45	539+31.96	11	4
539+31.96	540+97.48	11-0	4
540+97.48	547+57.59	0	4
547+57.59	548+66.26	0	4-5.8
548+66.26	548+84.31	0	5.8-0
St. Andrew Drive Intersection			
549+46.11	549+65.80	13	0-4
549+65.80	551+91.21	13	4
551+91.21	553+91.96	13-2	4
553+91.96	554+26.56	2-0	4-6
554+26.56	574+45.95	0	6
Existing RCB at Powell Creek			
574+85.88	592+31.93	0	6
592+31.93	592+62.49	0	6-8
592+62.49	594+11.08	0-10.6	8
80th Ave Intersection			
595+99.17	597+47.97	11	4
597+47.97	599+25.00	11-0	4-6
599+25.00	613+60.89	0	6

Section shown in the direction of traffic.

Mainline Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: CD at 15' spacing

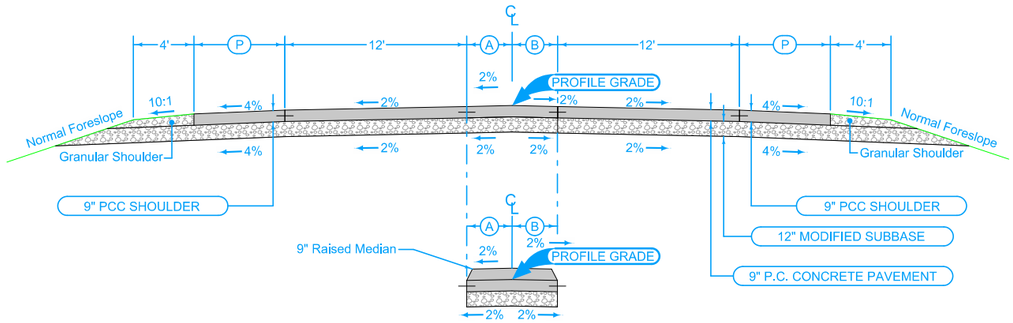
STATION TO STATION		(A) Feet	(B) Feet
527+50.00	535+23.63	0-13	0
535+23.63	536+02.55	13	0
70th Ave Intersection			
537+01.09	540+97.46	13	0
540+97.46	548+77.46	13-0	0
548+77.46	583+15.07	0	0
583+15.07	592+29.45	0	0-15
594+29.45	594+69.17	0	15
80th Ave Intersection			
595+65.52	600+31.79	0	15
600+31.79	613+60.89	0	15-0

Auxiliary Lane and Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: Match Mainline

STATION TO STATION		(AL) Feet	(P) Feet
527+50.00	529+30.50	0	6
529+30.50	529+60.37	0-2	6-4
529+60.37	530+95.50	2-11	4
530+95.50	535+79.63	11	4
70th Ave Intersection			
538+02.81	539+29.69	9.5-0	8
539+29.69	539+64.11	0	8-6
539+64.11	574+45.95	0	6
Existing RCB at Powell Creek			
574+85.88	586+42.07	0	6
586+42.07	586+70.25	0-2	6-4
586+70.25	588+12.62	2-11	4
588+12.62	593+99.48	11	4
80th Ave Intersection			
595+91.02	596+96.07	10-0	8
596+96.07	597+15.84	0	8-6
597+15.84	613+60.89	0	6

MAINLINE IA 7 PAVING



Sta. 1535+02.79 to Sta. 1535+23.53 (SR70TH)
Sta. 1535+45.34 to Sta. 1535+71.51 (SR70TH)
Sta. 2600+63.61 to Sta. 2600+89.48 (SR80TH)
Sta. 2601+13.48 to Sta. 2601+37.48 (SR80TH)

Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: CD at 15' spacing

ROAD IDENTIFICATION	BEGIN STATION	END STATION	(A) Feet	(B) Feet
SR70th	1534+35.53	1535+06.02	0-8.5	0
SR70th	1535+06.02	1535+23.53	8.5-11.2	0
SR70th	1535+48.51	1535+66.30	12-11.4	0
IA 7 Intersection				
SR70th	1538+17.52	1538+94.24	14.7-0	0
SR70th	1538+94.24	1539+60.00	0	0
SR80th	2596+50.00	2599+95.48	0	0
SR80th	2599+95.48	2600+65.51	0-2	0-2
SR80th	2600+65.51	2600+87.48	2	2
SR80th	2601+15.48	2601+35.48	2	2
IA 7 Intersection				
SR80th	2603+38.41	2604+38.08	13	2
SR80th	2604+38.08	2605+14.71	13-2	2
SR80th	2605+14.71	2608+09.44	2-0	2-0

Full-Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: C at 15' spacing

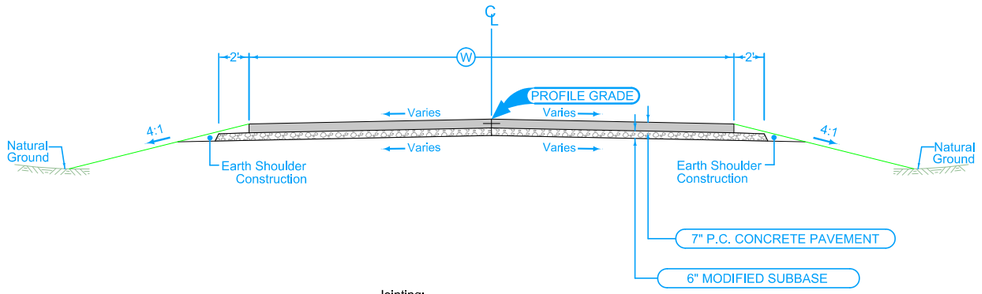
ROAD IDENTIFICATION	BEGIN STATION	END STATION	(P) Feet
SR70th	1534+35.53	1535+16.64	4
IA 7 Intersection			
SR70th	1538+19.49	1539+22.72	6
SR70th	1539+22.72	1539+60.00	6-4
SR80th	2596+50.00	2599+95.48	4
SR80th	2599+95.48	2600+85.97	4-10
IA 7 Intersection			
SR80th	2603+38.41	2608+09.44	4

Full-Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or BT-2
Transverse joints: C at 15' spacing

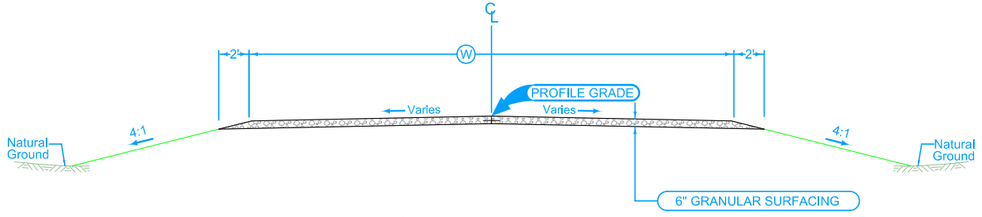
ROAD IDENTIFICATION	BEGIN STATION	END STATION	(P) Feet
SR70th	1534+35.53	1534+73.01	6.5-4
SR70th	1534+73.01	1535+02.59	4
IA 7 Intersection			
SR70th	1537+51.73	1539+60.25	4
SR80th	2596+50.00	2600+08.87	4
SR80th	2600+08.87	2600+85.97	4-10
IA 7 Intersection			
SR80th	2603+28.11	2603+78.03	11.3-4
SR80th	2603+78.03	2608+09.44	4

SIDEROAD PAVING
70th Avenue/ Villa Road
80th Avenue
St. Andrew's Drive



Jointing:
Transverse joints: C
Longitudinal joint: C

LOCATION			DIMENSIONS
ROAD IDENTIFICATION	STATION TO STATION		(W) Feet
ENTL543	0+24.87	0+55.00	24
ENTL546	0+20.93	0+55.00	10
ENTL551	0+29.13	0+40.00	20
ENTL553	0+21.57	0+35.00	22
ENTR1539 (St. Andrew's Court)	3500+12.00	3501+14.67	18



Jointing:
Transverse joints: C
Longitudinal joint: C

LOCATION			DIMENSIONS
ROAD IDENTIFICATION	STATION TO STATION		(W) Feet
ENTL566	0+18.00	0+35.00	14
ENTR1535	0+16.82	0+76.87	12
ENTL2597	0+20.00	0+40.00	20
ENTL2599	0+20.00	0+65.00	40
ENTR2599	0+20.18	0+92.91	60
ENTR2600	0+21.95	0+63.42	12

ENTRANCES

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)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- 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

Alliant Energy
Alliant Energy Field Inspector
(800) 255-4268
locate_IPL@alliantenergy.com

- FO2 - -T1 - CENTURY LINK (Fiber/Telephone)
Sadie Hull
(918) 547-0147
sadie.hull@lumen.com

Cherokee Rural Water District
Paul Hyndman
(712) 225-6193
paul@cherokeeruralwater.com

-W- CITY OF STORM LAKE (Water)
Matthew Beckman
(712) 732-8000
beckman@stormlake.org

Iowa Lakes Electric Co-op
Kay Dahl
(712) 362-2694
ioc-dir@ilec.coop

- FO3- MEDIACOM (Fiber)
Mike Lawler
(515) 571-2183
mlawler@mediacomcc.com

- E1 - MID-AMERICAN (Electric)
Steve Heckert
(712) 749-7126
steven.heckert@midamerican.com

- FO - MID-AMERICAN (Fiber)
Telecom On Call
(515) 281-2313
telecomoncall@midamerican.com

- G - NORTHERN NATURAL GAS COMPANY
Miles Peterson
(402) 404-0609
Miles.peterson@nngco.com

- FO4 - SUMMIT
Contact Name
Contact Email

Verizon Investigations
(469) 886-4090
investigations@verizon.com

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.**	
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading
Red	(3)	Delineates Restricted Areas

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(10)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

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

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, & U)

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **D.1**

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Sta. 526+49.02
2.0'x2.0'x50.1' RCB
D.A.=2.5 A-R
U.A.C.

525+00

Begin Construction
Begin RP-007-2(038)--16-11
Sta. 527+50.00

Exist. ROW

530+00

Proposed ROW

535+00

Exist. ROW

Villa Road
(SR70th)

Exist. ROW

Sta. 537+20.72
24"x64' RCP
D.A.=2.0 A-R
Remove

PC 537+39.80

Exist. ROW

540+00

Close Field Entrance

IA 7 (ML007)

7

F02

75°00'

Exist. ROW

CN Railroad ROW

CN Railroad

Exist. ROW

CN Railroad ROW

Sta. 536+71.95 (ML007) =
Sta. 1536+25.00 (SR70TH)

+92.66 Prop.
(ENTR1535)
Type "D" Ent.

70th Avenue
(SR70th)

0 50
FEET

IA 7

1455 1450 1445 1440 1435 1430 1425 1420

70th Avenue

Sta. 527+50.00
Elev. 1433.53
Begin Construction

VPI = +50.00
EL = 1433.56
L = 250.00'
K = 518

VPI = +25.00
EL = 1435.94
L = 200.00'
K = 176

VPI = +00.00
EL = 1440.44
L = 350.00'
K = 164

+0.02%
+0.50%
+0.50%
+1.64%
+1.64%
-0.50%
-1.00% LT Ditch Grade

+0.64% RT Ditch Grade
+1.01% RT Ditch Grade

RT +50
1427.87

RT +00
1432.00

RT +79
1433.80

LT +50
1435.00

Lt. No Ditch 70th Ave No Ditch Lt.

Rt. 10' Ditch 70th Ave U.A.C. Ditch Grade Rt.

1433.53 1433.53 1433.54 1433.54 1433.55 1433.58 1433.61 1433.66 1433.72 1433.79 1433.87 1433.96 1434.07 1434.19 1434.31 1434.44 1434.56 1434.69 1434.81 1434.94 1435.06 1435.19 1435.31 1435.44 1435.58 1435.76 1435.97 1436.22 1436.51 1436.83 1437.19 1437.58 1437.97 1438.32 1438.63 1438.91 1439.15 1439.34 1439.51 1439.63 1439.71 1439.76 1439.77 1439.74 1439.67 1439.57 1439.44 1439.32 1439.19 1439.07 1438.94

526+00 527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00 540+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER D.2

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Δ = 06°40'58.83" (LT)
T = 669.11'
L = 1336.70'
R = 11460.00'
E = 19.52'
e = Normal Crown

Sta. 543+43.89
Install 18" x 50' RCP
Sta. 543+68.11, 49' LT
18" x 44' CMP
Remove

Sta. 545+82.22
Install 18" x 44' RCP

Sta. 551+33.26
Install 18" x 48' RCP
Sta. 548+86.53, 44' LT
15"x52' RCP
Remove

18"x40'
C.M.P.
U.A.C.

18"x40'
Conc. Pipe
U.A.C.

540+00

+44.92 Prop.
(ENTL543)
Type "D" Ent.

545+00

+81.97 Prop.
(ENTL546)
Type "D" Ent.

Sta. 548+77.46
End of RP-007-2(038)--16-11
Begin STPN-007-2(040)--2J-11

St. Andrew's Drive

550+00

PT 550+76.50

+33.14 Prop.
(ENTL551)
Type "D" Ent.

+30.05 Prop.
(ENTL553)
Type "D" Ent.

555+00

Exist. ROW

7 IA 7 (ML007)

CN Railroad ROW

PT 544+08.91

CN Railroad

Exist. ROW

CN Railroad ROW

Sta. 549+22.88 (ML007) =
Sta. 3500+00.00 (SRSTANDREWSDR)

0 50
FEET

Platinum Crush

IA 7

Sta. 0+24.88
Elev. 1436.65
-3.89%
Sta. 0+55.00
Elev. 1435.47
ENTL543
1+00 0+00

Sta. 0+20.94
Elev. 1435.40
1.64%
Sta. 0+55.00
Elev. 1435.96
ENTL546
1+00 0+00

Sta. 0+29.13
Elev. 1428.35
-7.63%
Sta. 0+40.00
Elev. 1427.52
ENTL551
1+00 0+00

Sta. 0+21.57
Elev. 1426.11
-6.19%
Sta. 0+35.00
Elev. 1425.28
ENTL553
1+00 0+00

VPI = +00.00
EL = 1435.95
L = 200.00'
K = 249

St. Andrew's Drive

VPI = +00.00
EL = 1426.84
L = 200.00'
K = 480

-1.00% LT Ditch Grade
-0.37% LT Ditch Grade
-0.41% LT Ditch Grade
-0.50%
-1.30%
-0.93% LT Ditch Grade
-1.50% LT Ditch Grade
-1.30%
-0.88%
-1.66% LT Ditch Grade
-0.81% LT Ditch Grade

LT +00 1433.50
LT +18 1432.70
LT +70 1432.40
LT +65 1431.60
LT +00 1431.40
LT +84 1428.75
LT +43 1428.20
LT +13 1425.65
LT +53 1424.83
LT +18 1422.10
LT +40 1421.72

Lt. No Ditch | 10' Ditch | ENTL543 | 10' Ditch | ENTL546 | 10' Ditch | St. Andrew Drive | 10' Ditch | ENTL551 | 10' Ditch | ENTL553 | 10' Ditch | Lt.

Rt. U.A.C. Ditch Grade Rt.

1438.82 1438.69 1438.57 1438.44 1438.32 1438.19 1438.07 1437.95 1437.82 1437.70 1437.57 1437.45 1437.32 1437.20 1437.07 1436.95 1436.82 1436.70 1436.57 1436.45 1436.31 1436.15 1435.96 1435.75 1435.51 1435.25 1434.96 1434.65 1434.32 1434.00 1433.67 1433.35 1433.02 1432.70 1432.37 1432.05 1431.72 1431.39 1431.07 1430.74 1430.42 1430.09 1429.77 1429.44 1429.12 1428.79 1428.47 1428.14 1427.82 1427.52 1427.22 1426.94 1426.68 1426.42 1426.18 1425.96 1425.73 1425.51 1425.29 1425.07

541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00 549+00 550+00 551+00 552+00 553+00 554+00 555+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER D.3

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555+00
560+00
565+00
570+00
+89.43 Prop. (ENTL566) Type "D" Ent.
24"x28' Conc. Pipe U.A.C.
Exist. ROW
IA 7 (ML007)
7
CN Railroad ROW
CN Railroad
Exist. ROW
CN Railroad ROW
Platinum Crush
0 50 FEET
IA 7

Sta. 0+18.00
Elev. 1414.95
-5.41%
Sta. 0+35.00
Elev. 1414.03
ENTL566
-0.81% LT Ditch Grade
LT +00
1419.61
VPI = +00.00
EL = 1413.57
L = 400.00'
K = 369
-0.88%
+0.20%
-0.41% LT Ditch Grade
LT +10
1410.96

Lt. 10' Ditch U.A.C. Ditch Grade ENTL566 10' Ditch Lt.
Rt. U.A.C. Ditch Grade Rt.

1424.85 1424.63 1424.41 1424.19 1423.96 1423.74 1423.52 1423.30 1423.08 1422.86 1422.64 1422.42 1422.19 1421.97 1421.75 1421.53 1421.31 1421.09 1420.87 1420.65 1420.43 1420.20 1419.98 1419.76 1419.54 1419.32 1419.10 1418.88 1418.66 1418.43 1418.21 1417.99 1417.77 1417.55 1417.33 1417.11 1416.89 1416.67 1416.44 1416.22 1416.00 1415.78 1415.56 1415.34 1415.13 1414.93 1414.75 1414.59 1414.44 1414.32 1414.20 1414.11 1414.03 1413.97 1413.93 1413.90 1413.89 1413.90 1413.93 1413.97

556+00 557+00 558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00 566+00 567+00 568+00 569+00 570+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER D.4

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Sta. 574+65.95
TRIPLE 12.5'x12.0'x78.3' RCB
D.A.=6,440 A-R
U.A.C.

U.A.C. Existing RCB

Stop Construction
Sta. 574+45.95
End of STPN-007-2(040)--2J-11

Resume Construction
Sta. 574+85.88
Begin STPN-007-2(039)--2J-11

Exist. ROW

Δ = 04°14'24.89" (LT)
T = 443.80'
L = 887.19'
R = 11988.00'
E = 8.21'
e = Normal Crown

570+00
575+00
580+00
585+00

PC 575+19.98
PRC 584+07.16
PT 581+63.77

IA 7 (ML007)

CN Railroad ROW
CN Railroad
Exist. ROW
CN Railroad ROW

Powell Creek

Platinum Crush

Washington TWP.
T-91N R-37W
SEC. 31

0 50 FEET

IA 7

Sta. 574+85.88
Elev. 1414.94
Resume Construction

Sta. 574+45.95
Elev. 1414.86
Stop Construction

VPI = +00.00
EL = 1415.17
L = 200.00'
K = 250

VPI = +00.00
EL = 1413.37
L = 400.00'
K = 286

+0.20%
-0.60%
-0.60%
+0.80%

U.A.C. Existing RCB

-0.41% LT Ditch Grade
+0.20% LT Ditch Grade
+0.35% LT Ditch Grade
+0.73% LT Ditch Grade

LT +00 1407.73
LT +00 1406.50
LT +00 1406.70
LT +00 1408.80

1435 1430 1425 1420 1415 1410 1405 1400

Lt. 10' Ditch Powell Creek 10' Ditch Lt.
Rt. U.A.C. Ditch Grade Powell Creek U.A.C. Ditch Grade Rt.

1414.02 1414.07 1414.12 1414.17 1414.22 1414.27 1414.32 1414.37 1414.42 1414.47 1414.52 1414.57 1414.62 1414.67 1414.72 1414.77 1414.82 1414.87 1414.92 1414.97 1415.01 1415.02 1415.01 1414.97 1414.91 1414.82 1414.71 1414.57 1414.43 1414.31 1414.22 1414.14 1414.09 1414.06 1414.05 1414.07 1414.10 1414.16 1414.24 1414.34 1414.47 1414.61 1414.78 1414.97 1415.17 1415.37 1415.57 1415.77 1415.97 1416.17 1416.37 1416.57 1416.77 1416.97 1417.17 1417.37 1417.57 1417.77 1417.97 1418.17

571+00 572+00 573+00 574+00 575+00 576+00 577+00 578+00 579+00 580+00 581+00 582+00 583+00 584+00 585+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER D.5

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Δ = 04°03'08.16" (RT)
T = 424.10'
L = 847.86'
R = 11988.00'
E = 7.50'
e = Normal Crown

585+00 | 590+00 | 595+00 | 600+00

PI 588+31.27

Exist. ROW

Sta. 595+01.48 (ML007) =
Sta. 2602+44.05 (SR80TH)

80th Ave (SR80th)

Proposed ROW

IA 7 (ML007)

PT 592+55.02

PT 596+63.48

CN Railroad ROW

CN Railroad

Exist. ROW

CN Railroad ROW

+60.26 Prop.
(ENTR2600)
Type "B" Ent.

+15.22 Prop.
(ENTR2599)
Type "B" Ent.
(CLOSED)

0 50 FEET

IA 7

VPI = +00.00
EL = 1421.37
L = 200.00'
K = 1000

+0.80% | +0.60%

80th Avenue

LT +00
1411.70

+0.73% LT
Ditch Grade

+0.34% LT Ditch Grade

LT +50
1414.27

+4.48% LT
Ditch Grade

LT +22
1417.50

RT +76
1422.02

-0.10% RT Ditch Grade

LT +87
1419.86

+1.10% LT Ditch Grade

Lt.	10' Ditch	80th Ave	10' Ditch
Rt.	U.A.C. Ditch Grade	80th Ave	10' Ditch

1418.37 1418.57 1418.77 1418.97 1419.17 1419.37 1419.57 1419.77 1419.97 1420.17 1420.37 1420.57 1420.77 1420.96 1421.14 1421.32 1421.49 1421.66 1421.82 1421.97 1422.12 1422.27 1422.42 1422.57 1422.72 1422.87 1423.02 1423.17 1423.32 1423.47 1423.62 1423.77 1423.92 1424.07 1424.22 1424.37 1424.52 1424.67 1424.82 1424.97 1425.12 1425.27 1425.42 1425.57 1425.72 1425.87 1426.02 1426.17 1426.32 1426.47 1426.62 1426.77 1426.92 1427.07 1427.22 1427.37 1427.52 1427.67 1427.81 1427.95

586+00 | 587+00 | 588+00 | 589+00 | 590+00 | 591+00 | 592+00 | 593+00 | 594+00 | 595+00 | 596+00 | 597+00 | 598+00 | 599+00 | 600+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER D.6

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Δ = 04°03'08.16" (RT)
T = 424.53'
L = 848.71'
R = 12000.00'
E = 7.51'
e = Normal Crown

600+00

PI 600+88.01

605+00

PRC 605+12.18

Exist. ROW

IA 7 (ML007)

CN Railroad ROW

CN Railroad

CN Railroad ROW

Δ = 04°03'08.16" (LT)
T = 424.53'
L = 848.71'
R = 12000.00'
E = 7.51'
e = Normal Crown

610+00

PI 609+36.71

36"x37'
Cast Iron Pipe

Sta. 609+27.00
Install 42" x 60' RCP
Sta. 610+23.35
42"x67' RCP
D.A.=42 A-R
Remove

End Construction
END STPN-007-2(039)–2J-11
Sta. 613+60.89

PT 613+60.89

615+00

7

Exist. ROW

0 50
FEET

IA 7

1445
1440
1435
1430
1425
1420
1415
1410

VPI = +00.00
EL = 1429.77
L = 700.00'
K = 636

+0.60%
-0.50%

+1.10% LT Ditch Grade
LT +00
1425.50

-0.47% LT Ditch Grade

-0.10% RT Ditch Grade

VPI = +00.00
EL = 1426.27
L = 700.00'
K = 337

-0.50%
+1.58%

+1.05% LT Ditch Grade

LT +27
1421.60

RT +27
1420.70

Sta. 613+60.89
Elev. 1431.96
End Construction

+2.96% LT
Ditch Grade

LT +61
1427.30

LT +00
1425.50

Lt. 10' DItch
Rt. 10' DItch U.A.C. DItch Grade

1428.07 1428.19 1428.30 1428.39 1428.48 1428.55 1428.62 1428.68 1428.72 1428.76 1428.79 1428.81 1428.81 1428.81 1428.80 1428.78 1428.75 1428.70 1428.65 1428.59 1428.52 1428.44 1428.35 1428.25 1428.14 1428.02 1427.90 1427.81 1427.73 1427.67 1427.63 1427.60 1427.60 1427.61 1427.64 1427.70 1427.77 1427.85 1427.96 1428.09 1428.23 1428.39 1428.57 1428.77 1428.99 1429.23 1429.48 1429.76 1430.05 1430.36 1430.69 1431.04 1431.40 1431.79 1431.96

601+00 602+00 603+00 604+00 605+00 606+00 607+00 608+00 609+00 610+00 611+00 612+00 613+00 614+00 615+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER D.7

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CN Railroad ROW

Exist. ROW

Sta. 1536+25.00 (SR70TH) =
Sta. 536+71.95 (ML007)

Close Field Entrance

Sta. 1541+00.86
Install 24" x 22' RCP

1538+67.81 (SR70TH) =
Sta. 3500+00.00 (ENTR1539)

Exist. ROW

1530+00

Begin Construction
Sta. 1534+35.53

PC 1534+35.53

PI 1534+71.44

1535+00

PT 1535+07.00

Δ = 48°29'44.52" (LT)
T = 62.16'
L = 116.80'
R = 138.00'
E = 13.35'
e = Normal Crown

PI 1538+90.96

PRC 1538+28.29

PC 1537+11.32

1540+00

+00.00 Prop.
(ENTL1541)
Type "D" Ent.

70th Avenue (SR70TH)

Villa Road (SR70TH)

End Construction
Sta. 1541+22.35

POE 1544+06.19

Δ = 13°39'00.00" (RT)
T = 35.91'
L = 71.47'
R = 300.00'
E = 2.14'
e = Normal Crown

Sta. 1534+81.39 15°LA
Install 18" x 18' RCP

75°0'0"

PT 1539+49.83

Exist. ROW

Sta. 1538+69.00 45°LA
Install 24" x 96' RCP

Remove Exist. Pipe

Exist. ROW

Sta. 537+20.72
24"x64' RCP
D.A.=2.0 A-R
Remove

+92.66 Prop.
(ENTR1535)
Type "D" Ent.
CN Railroad

Exist. ROW

PI 1537+73.55

IA 7 (ML007)

St. Andrew's Court
(ENTR1539)
Refer to Sheet E.3

Sta. 534+16.74, 458' LT
Twin 8.0'x5.0'x38.2' RCB
U.A.C.

Sta. 535+54.09, 208' LT
Skew 23° RT AH
15"x41' CMP
Remove

Δ = 34°50'42.79" (RT)
T = 62.76'
L = 121.63'
R = 200.00'
E = 9.62'
e = Normal Crown

15"x28'
C.M.P.

0 FEET 50

70th Avenue
Villa Road

VPI = +85.00
EL = 1438.78
L = 40.00'
K = 12

Begin Costruction
Sta. 1534+35.53
Elev. 1442.11

CNRR

IA 7

-2.23%

-2.46%

+0.90%

-2.03%

+1.83%

VPI = +75.00
EL = 1431.60
L = 150.00'
K = 77

St. Andrew's Ct.
(ENTR1539)

-3.26%

-1.32%

VPI = +50.00
EL = 1427.03
L = 15.00'

-6.00%

-4.00%

0+14.41
1428.45

ENTL1541

0+90.00
1425.72

VPI = +75.00
EL = 1425.53
L = 30.00'

1+00

0+00

Sta.0+16.82
Elev. 1440.51
-0.50%
Sta. 0+39.49
Elev. 1440.39
-4.00%
0+61.95
1439.49
-6.60%
0+76.87
1438.51

ENTR1535

0+00

1+00

-2.65% RT
Ditch Grade

RT +07
1430.00

RT +20
1427.00

-1.12% LT
Ditch Grade

LT +69
1426.55

LT +61
1425.52

End Costruction
Sta. 1539+60.00
Elev. 1430.48

1450 1445 1440 1435 1430 1425 1420 1415

ENTR1535

Lt.: U.A.C. Ditch | CNRR | U.A.C. Ditch | IA 7 | U.A.C. | 10' Ditch

Rt.: U.A.C. Ditch | CNRR | U.A.C. Ditch | IA 7 | U.A.C | 10' Ditch | ENTR1539

1442.11 1441.79 1441.23 1440.67 1440.12 1439.64 1439.07 1438.92 1439.32 1438.82 1438.13 1437.31 1436.49 1435.68 1434.86 1434.05 1433.27 1432.58 1431.96 1431.43 1430.98 1430.61 1430.48

1530+00 1531+00 1532+00 1533+00 1534+00 1535+00 1536+00 1537+00 1538+00 1539+00 1540+00 1541+00 1542+00 1543+00 1544+00 1545+00

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER E.1

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Sta. 2599+15.22
Install 18" x 52' RCP

CN Railroad ROW

Proposed ROW

Sta. 2597+16.20
Install 21" x 15" x 40' Class 5 Arch RCP

Sta. 2597+16.18, 22' LT
18" X 28' CMP
Remove

Δ = 19°38'32.16" (LT)
T = 88.29'
L = 174.84'
R = 510.00'
E = 7.59'
e = Normal Crown

+15.22 Prop. (ENTL2599) - Type "B" Ent.

PRC 2598+82.94

PI 2599+78.57

2600+00

PT 2600+65.61

Exist. ROW

7

Exist. ROW

Δ = 50°56'19.06" (LT)
T = 119.08'
L = 222.26'
R = 250.00'
E = 26.91'
e = Normal Crown

U.A.C. Existing Tile Drain

Exist. ROW

PI 2606+84.37

Sta. 593+85.93, 284' LT
3.0'x3.0'x42.0' RCB
Remove

End Construction
Sta. 2608+09.44

2595+00

Exist. ROW

+16.15 Prop. (ENTL2597) - Type "D" Ent.

PC 2597+08.78

80th Avenue (SR80TH)

Begin Construction
Sta. 2596+50.00

Close Entrance

+60.26 Prop. (ENTR2600) Type "B" Ent.

2605+00

PC 2603+33.56

80th Avenue (SR80TH)

12"x41' Conc. Pipe U.A.C.

Exist. ROW

PI 2597+96.39

+15.22 Prop. (ENTR2599) Type "B" Ent.

Δ = 41°51'46.25" (RT)
T = 95.62'
L = 182.66'
R = 250.00'
E = 17.66'
e = Normal Crown

Sta. 2599+21.62
Install 18" x 94' RCP

CN Railroad

IA 7 (ML007)

90°0'0"

PRC 2605+53.82

Δ = 28°43'04.66" (RT)
T = 130.56'
L = 255.62'
R = 510.00'
E = 16.45'
e = Normal Crown

PT 2608+09.44

Exist. ROW

PI 2604+50.64

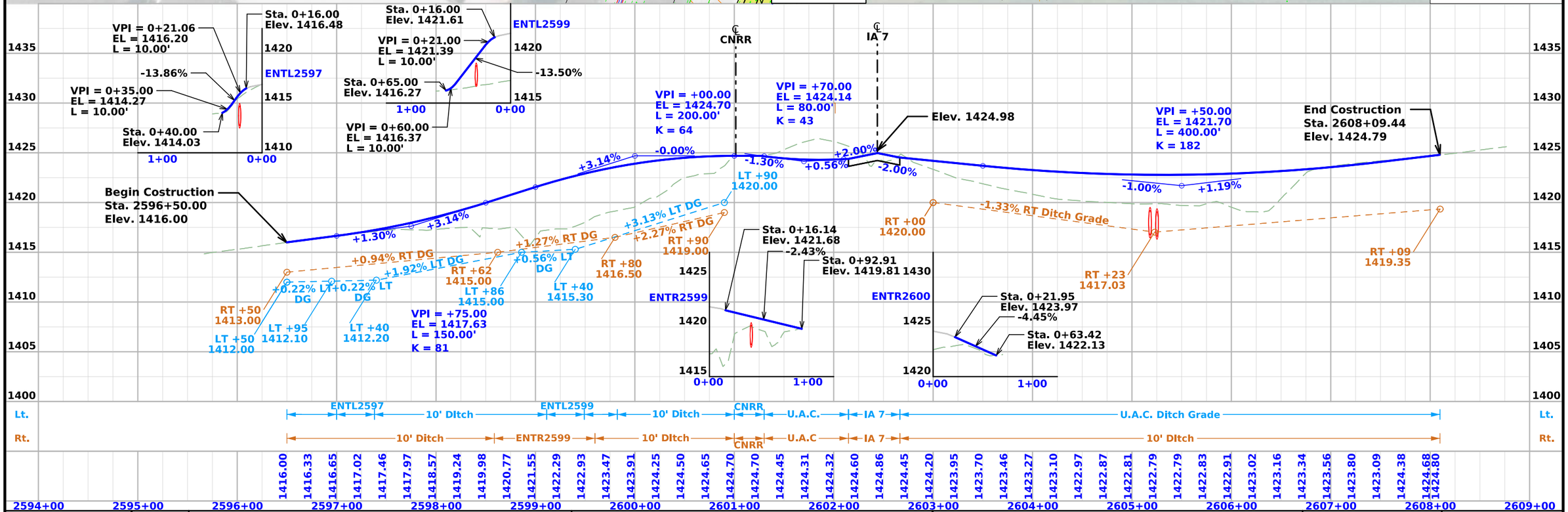
Sta. 2605+18.00
Install 30" x 66' RCP

Sta. 2605+25.00
Install 30" x 66' RCP

0 FEET 50

Sta. 2602+44.05 (SR80TH) =
Sta. 595+01.48 (ML007)

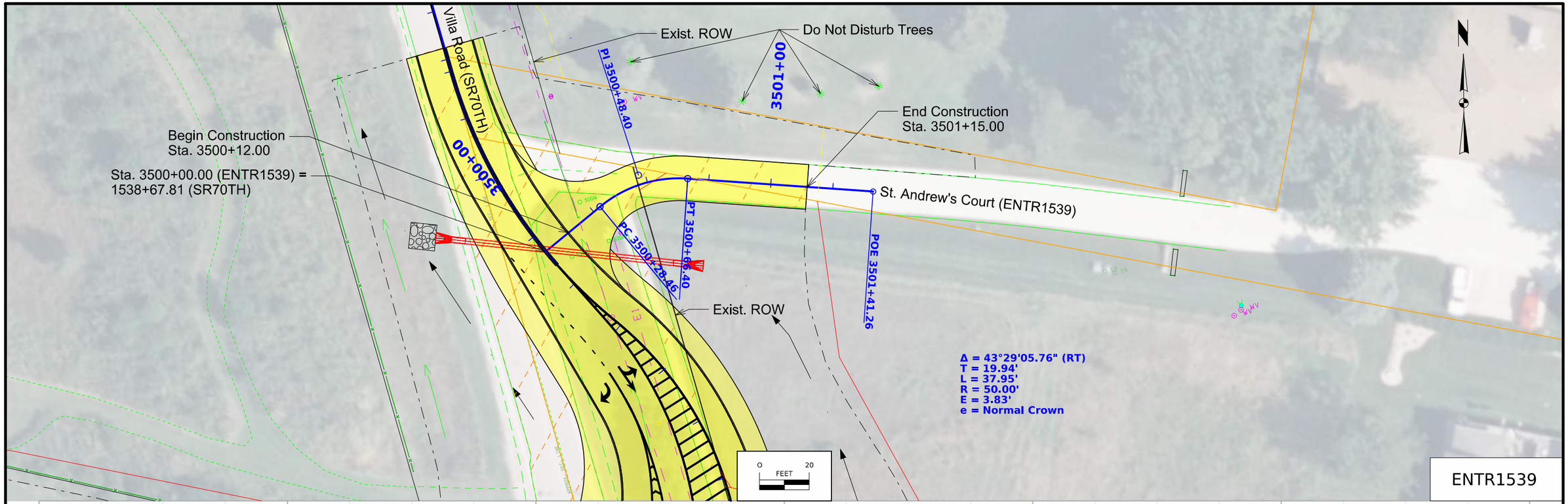
80th Avenue

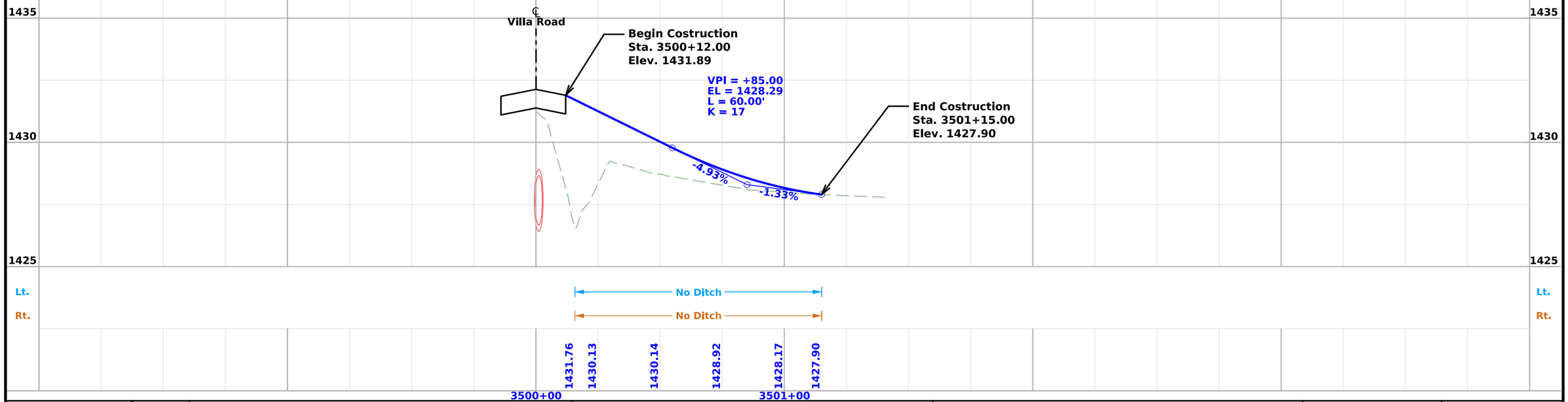


FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER E.2

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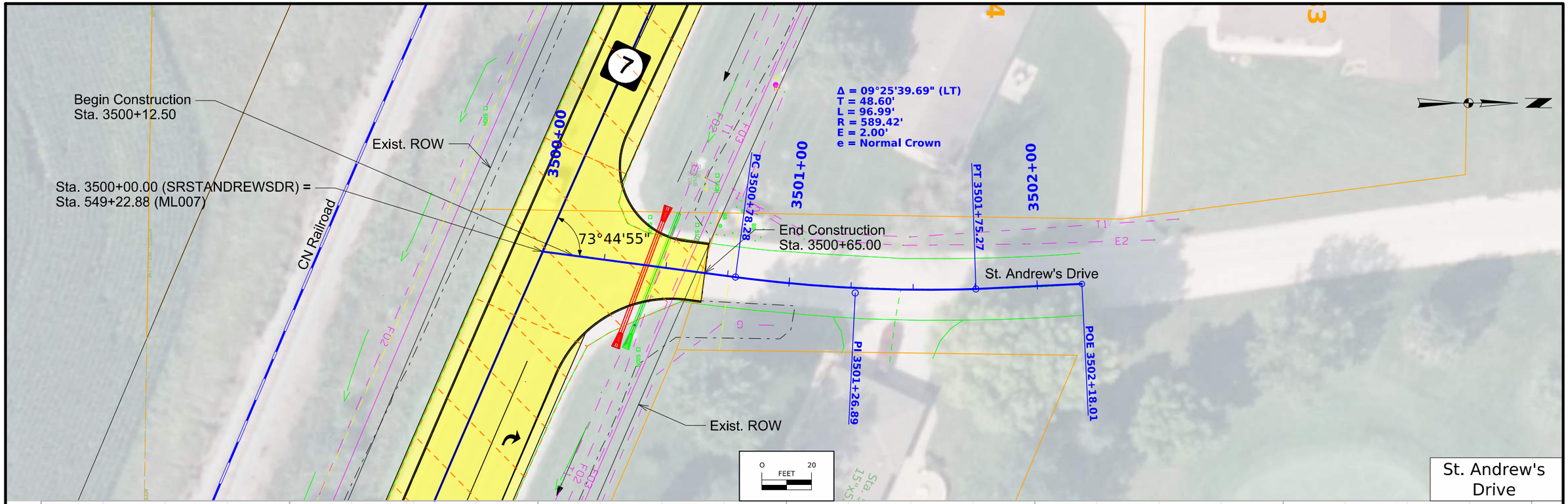


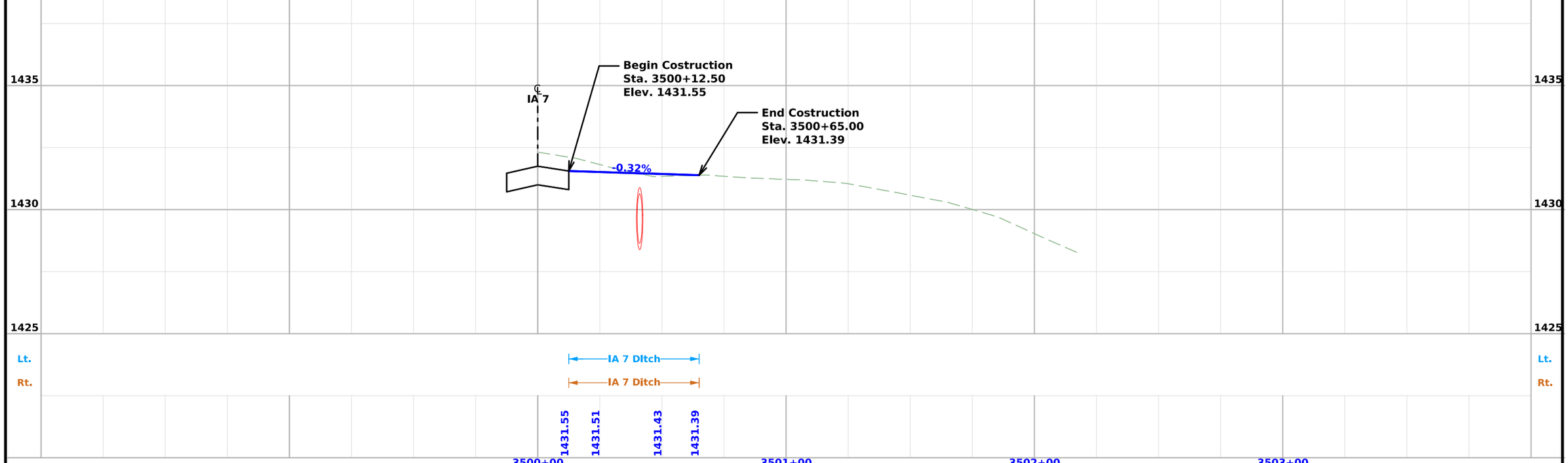


FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **E.3**

11:47:01 AM 6/11/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_E_11007038Z04.dgn

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FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **E.4**

1:38:39 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_E_11007038Z04.dgn

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SURVEY INDEX

County: Buena Vista
PIN: 25-11-007-040
Project Number: STPN-007-2(039)--2J-11
Location: Along IA-7 approx. 1.8 miles in Lenth, starting 0.25 miles West of 70th Ave. and ending 0.45 miles East of 80th Ave.
Type of Work: Full Field Survey
Project Directory: 1100704025

Survey Personnel

Jeremy Leemon	Survey Project Manager
Chris Ries	Assistant Survey Project Manager
Jacob Powers	Instrument
Matt Goedken	Instrument
Andrew Anderson	Instrument

Date(s) of Survey

Begin Date	07/23/2025
End Date	07/09/2025

General Information

This is for a full field topographic survey of IA 7 approximately 1.8 miles in length. Starting 0.25 miles west of 70th Ave and ending 0.45 miles east of 80th Ave.

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

(RTN Example)
Nearby Iowa Real Time Network reference stations were utilized to obtain horizontal and vertical control on primary project control points. Three five-minute observations were taken with a minimum two-hour time span between and used in a weighted average to obtain final coordinate values. A site calibration was then performed on all control. 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 4 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for IA Hwy 7 this survey is a retrace of As-built Plans No. FN-37. Survey stationing was equated to the plan PC at Sta. 537+39.8 and carried back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

POT Sta. 490+12 As-built Plans Project No. FN-37
Survey POT Sta. 490+12.00

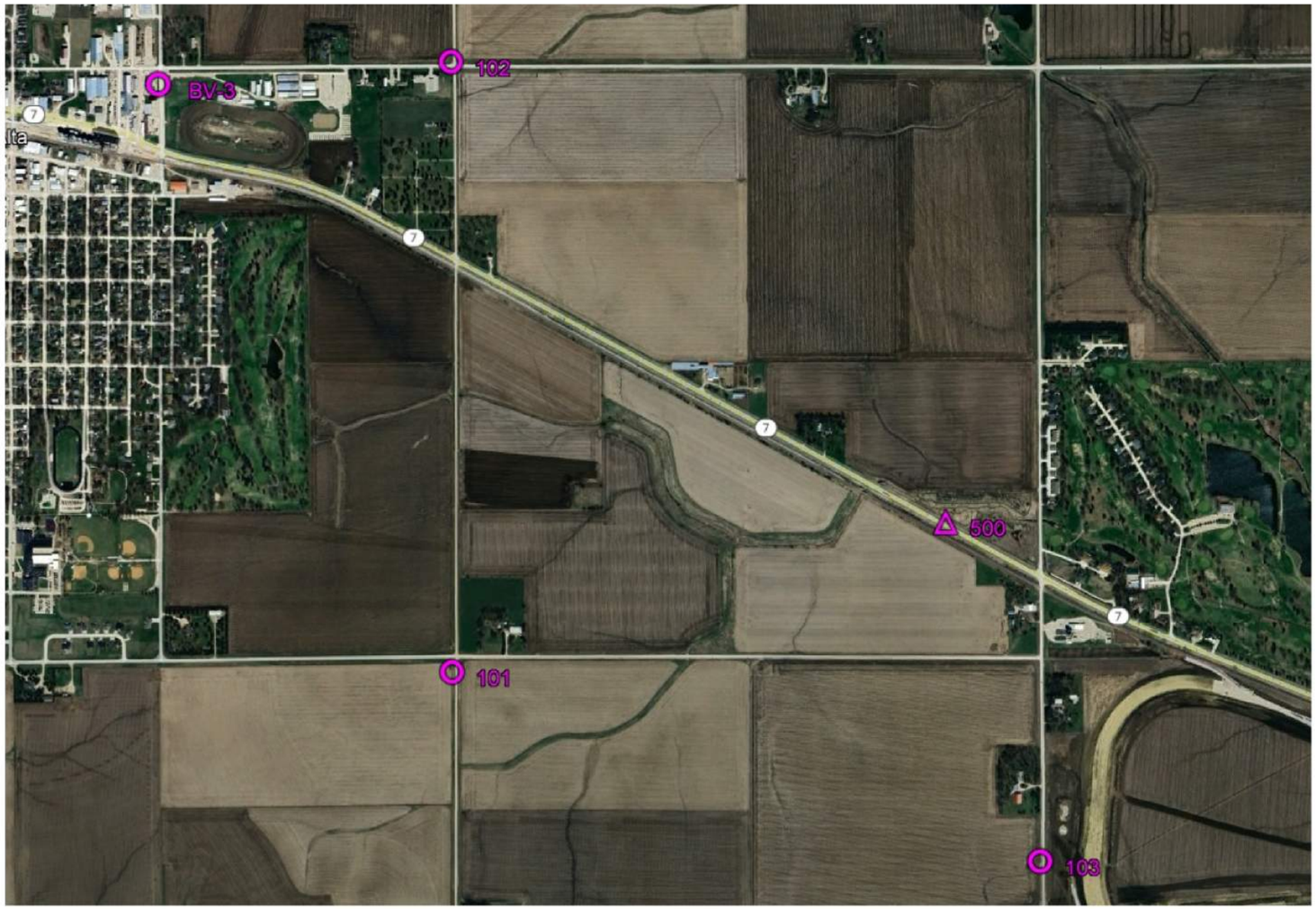
PC Sta. 537+39.8 As-built Plans Project No. FN-37
Survey PC Sta. 537+39.80

PT Sta. 550+76.5 As-built Plans Project No. FN-37
Survey PT Sta. 550+76.50

POT Sta. 651+82.3 As-built Plans Project No. FN-37
Survey POT Sta. 651+82.30

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	Feature Definition - Description
500	8648436.72	14381721.93	1429.29	BM FD DOT BRASS BUTTON IHC, 965' NORTHWEST OF VILLA RD CL, 28' NORTH OF IA 7 CL
501	8646424.79	14386087.77	1415.56	BM FD DOT BRASS BUTTON IHC, ON INLET HDWL OF TRIPLE 12.5'X12.0'X78.3' RCB
100	8646432.58	14386055.06	1414.27	CP SET 5/8" X 4' REBAR 6" DEEP WITH CAP, 13' WEST OF TRIPLE 12.5'X12.0'X78.3' RCB, 34' NORTH OF IA 7 CL
101	8647208.17	14377284.20	1478.89	SET 5/8" X 4' REBAR 6" DEEP, ALONG WEST SIDE OF 60TH AVE, APPROX. 84' SOUTH OF 590TH ST CL
102	8652594.28	14377322.24	1475.60	SET 5/8" X 4' REBAR 6" DEEP, 28' WEST OF 60TH AVE CL, 28' NORTH OF 580TH ST CL
103	8645379.23	14382524.11	1452.87	SET 5/8" X 4' REBAR 6" DEEP, 21' WEST OF 70TH AVE CL, 1830' SOUTH OF 590TH ST CL
104	8647138.18	14387912.54	1439.45	SET 5/8" X 4' REBAR 6" DEEP, 25' WEST OF 80TH AVE CL, 29' SOUTH OF 590TH ST CL
105	8647173.79	14393196.98	1443.60	SET 5/8" X 4' REBAR 6" DEEP, 24' WEST OF 90TH AVE CL, 36' NORTH OF 590TH ST CL
106	8641965.66	14393178.47	1420.95	SET 5/8" X 4' REBAR 6" DEEP, 18' WEST OF HWY 110 CL, 21' NORTH OF HYLAND DR CL
BV-3	8652409.63	14374696.57	1509.43	FD NGS MONU DISC, 33' WEST OF 55TH AVE CL, 164' SOUTH OF NE 1ST ST CL

ALIGNMENT COORDINATES

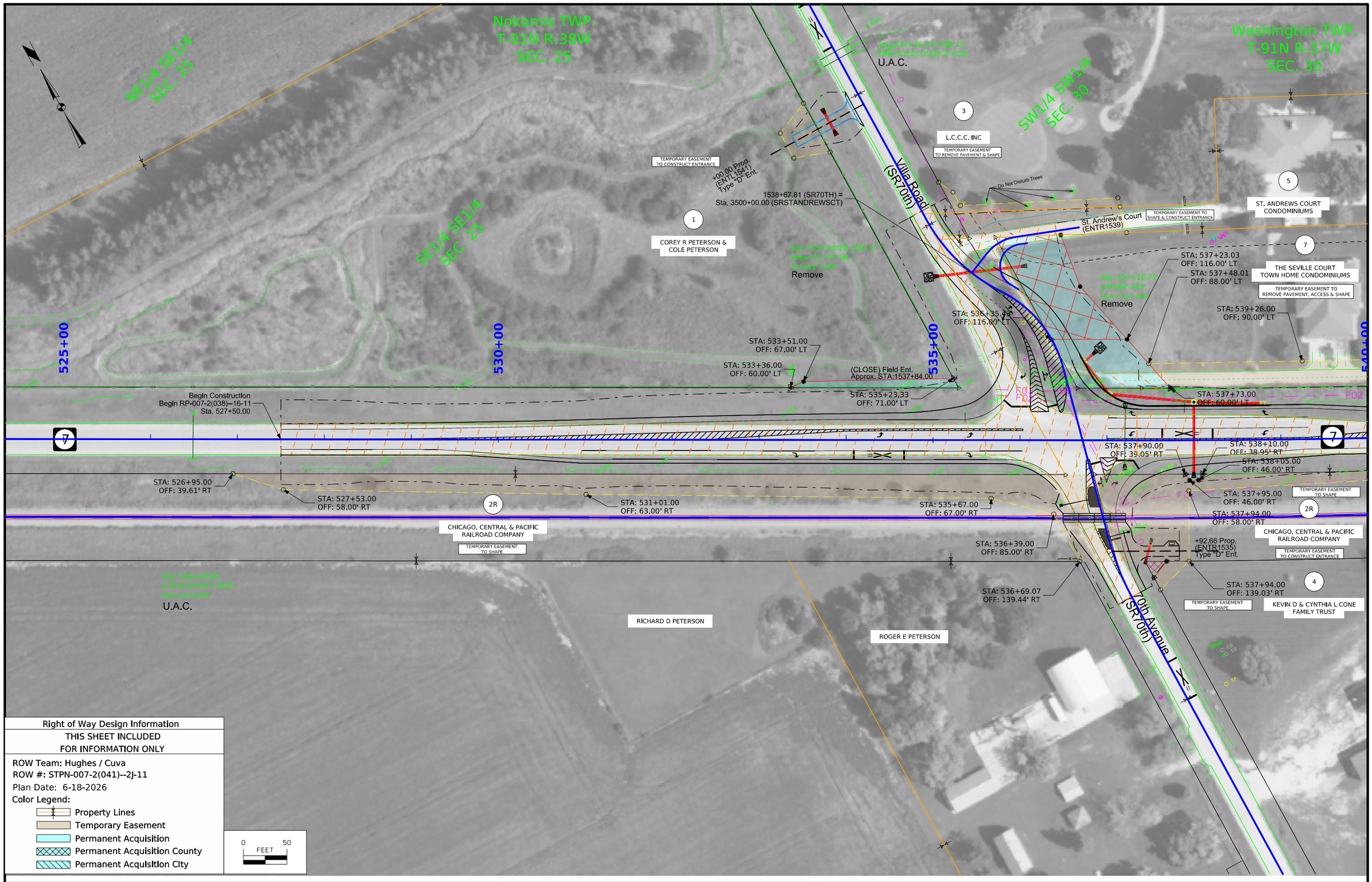
Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1.0	ML007	Point ML007_1	490+12.00	8650182.57	14378530.85															
2.0	ML007	Curve ML007_1							537+39.80	8647881.3	14382660.77	544+08.91	8647555.61	14383245.27	550+76.50	8647300.16	14383863.69			
3.0	ML007	Curve ML007_2							575+19.98	8646367.6	14386122.21	579+63.77	8646196.94	14386531.88	584+07.16	8646057.04	14386953.05			
4.0	ML007	Curve ML007_3							584+07.16	8646057.04	14386953.05	588+31.27	8645923.28	14387355.51	592+55.02	8645761.42	14387747.51			
5.0	ML007	Curve ML007_4							596+63.48	8645605.53	14388125.06	600+88.01	8645443.51	14388517.45	605+12.18	8645254.16	14388897.42			
6.0	ML007	Curve ML007_5							605+12.18	8645254.16	14388897.42	609+36.71	8645064.82	14389277.38	613+60.89	8644902.8	14389669.78			
7.0	ML007	Point ML007_7	651+85.13	8643443.27	14393204.55															
8.0	SR70	Point SR70_1	1528+92.88	8647186.54	14382559.12															
9.0	SR70	Curve SR70_1							1534+35.53	8647729.18	14382563.64	1534+71.44	8647765.08	14382563.94	1535+07.01	8647799.9	14382572.71			
10.0	SR70	Curve SR70_2							1537+11.39	8647998.11	14382622.59	1537+73.55	8648058.39	14382637.77	1538+28.20	8648109.7	14382602.68			
11.0	SR70	Curve SR70_3							1538+28.20	8648109.7	14382602.68	1538+90.96	8648161.5	14382567.25	1539+49.83	8648224.26	14382567.77			
12.0	SR70	Point SR70_2	1544+06.19	8648680.61	14382571.57															
13.0	SR080	Point SR080_1	2590+87.56	8644531.77	14387929.22															
14.0	SR080	Curve SR080_1							2597+08.11	8645152.31	14387931.56	2597+96.39	8645240.6	14387931.89	2598+82.95	8645323.86	14387902.52			
15.0	SR080	Curve SR080_2							2598+82.95	8645323.86	14387902.52	2599+78.57	8645414.04	14387870.72	2600+65.61	8645502.42	14387907.21			
16.0	SR080	Curve_SR080_3							2603+31.56	8645748.24	14388008.72	2604+50.64	8645858.31	14388054.16	2605+53.82	8645962.95	14387997.34			
17.0	SR080	Curve SR080_4							2605+53.82	8645962.95	14387997.34	2606+84.38	8646077.69	14387935.04	2608+09.44	8646208.24	14387935.53			
18.0	SR080	Point SR080_2	2611+57.06	8646555.86	14387936.83															
19.0	SRSTANDREWSCT	Point SRSTANDREWSCT_1	3500+00.00	8648144.39	14382583.69															
20.0	SRSTANDREWSCT	Curve SRSTANDREWSCT_1							3500+28.46	8648155.51	14382609.88	3500+48.40	8648163.29	14382628.17	3500+66.40	8648156.32	14382646.85			
21.0	SRSTANDREWSCT	Point SRSTANDREWSCT_2	3501+41.26	8648130.18	14382716.9															
22.0	SRSTANDREWSDR	Point SRSTANDREWSDR_1	3500+00.00	8647359.76	14383722.11															
23.0	SRSTANDREWSDR	Curve SRSTANDREWSDR_1							3500+78.28	8647437.46	14383731.63	3501+26.89	8647485.7	14383737.54	3501+75.27	8647534.26	14383735.46			
24.0	SRSTANDREWSDR	Point SRSTANDREWSDR_2	3502+18.01	8647576.94	14383733.02															

SPIRAL OR CIRCULAR CURVE DATA

Line No.	Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	T	L	R	E	Remarks
1.0	SR080	Curve_SR080_1										173.984	88.286	174.839	510	7.585	
2.0	SR080	Curve_SR080_2										178.625	95.623	182.661	250	17.663	
3.0	SR080	Curve_SR080_3										215.014	119.08	222.262	250	26.911	
4.0	SR080	Curve_SR080_4										252.956	130.557	255.624	510	16.446	
5.0	SR70	Curve SR70_1										71.302	35.906	71.471	300	2.141	
6.0	SR70	Curve SR70_2										113.349	62.158	116.805	138	13.353	
7.0	SR70	Curve SR70_3										119.767	62.763	121.633	200	9.617	
8.0	ML007	Curve ML007_1										1335.943	669.109	1336.7	11460	19.517	
9.0	ML007	Curve ML007_2										886.985	443.796	887.187	11988	8.212	
10.0	ML007	Curve ML007_3										847.68	424.105	847.856	11988	7.5	
11.0	ML007	Curve ML007_4										848.528	424.529	848.705	12000	7.507	
12.0	ML007	Curve ML007_5										848.528	424.529	848.705	12000	7.507	
13.0	SRSTANDREWSCT	Curve SRSTANDREWSCT_1										37.044	19.94	37.948	50	3.83	
14.0	SRSTANDREWSDR	Curve SRSTANDREWSDR_1										96.877	48.603	96.986	589.423	2	

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FILE NO.	ENGLISH	DESIGN TEAM	IOWA DOT * OFFICE OF ROW	COUNTY	PROJECT NUMBER	SHEET NUMBER	



FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.1

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Washington TWP.
T-91N R-37W
SEC. 30

SW1/4 SW1/4
SEC. 30

5
ST. ANDREWS COURT CONDOMINIUMS

7
THE SEVILLE COURT TOWN HOME CONDOMINIUMS
TEMPORARY EASEMENT TO REMOVE PAVEMENT, ACCESS & SHAPE

9
DUANE RICHARD & ELAINE MARIE HUSSEY
TEMPORARY EASEMENT TO SHAPE

11
AGUSTIN SANCHEZ
TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

LAKE CREEK MINI-STORAGE CONDO ASSOCIATION

JOHN M BAUER

GAYLERD A SADUSKY TRUST

3
L.C.C.C. INC
TEMPORARY EASEMENT TO REMOVE PAVEMENT & SHAPE

MICHAEL BROSTAD

CHRISTOPHER J & MEGAN L BECK

6
PLATINUM CRUSH LLC

St. Andrew's Drive

540+00

545+00

550+00

STA: 539+26.00
OFF: 90.00' LT

STA: 542+89.00
OFF: 118.00' LT

STA: 542+32.04
OFF: 88.03' LT

STA: 543+18.00
OFF: 119.00' LT

Sta. 543+68.11, 49' LT
18"x49' CMP
Remove

STA: 543+40.00
OFF: 112.00' LT

STA: 543+73.29
OFF: 63.00' LT

+81.97 Prop. (ENTL549) Type "D" Ent.

+44.99 Prop. (ENTL543) Type "D" Ent.

STA: 544+90.30
OFF: 65.00' LT

Sta. 543+43.89
Install 18" x 50' RCP

Sta. 545+82.22
Install 18" x 44' RCP

STA: 547+03.32
OFF: 61.00' LT

Sta. 548+06.53, 44' LT
18"x30' RCP
Remove

STA: 548+89.00
OFF: 108.00' LT

STA: 549+01.00
OFF: 73.00' LT

STA: 548+88.00
OFF: 60.16' LT

Sta. 551+33.26
Install 18" x 48' RCP

STA: 549+15.69
OFF: 116.00' LT

18"x40'
Conc. Pipe
U.A.C.

+93.14 Prop. (ENTL551) Type "D" Ent.

18"x40'
Conc. Pipe
U.A.C.

+30.05 Prop. (ENTL553) Type "D" Ent.

STA: 541+27.00
OFF: 45.00' RT

STA: 543+05.00
OFF: 36.35' RT

STA: 547+11.00
OFF: 34.02' RT

STA: 547+75.00
OFF: 41.00' RT

STA: 551+15.00
OFF: 45.00' RT

2R
CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY
TEMPORARY EASEMENT TO SHAPE

Sta. 549+22.88 (ML007) =
Sta. 3500+00.00 (SRSTANDREWSDR)

4
KEVIN D & CYNTHIA L CONE FAMILY TRUST

NW1/4 NW1/4
SEC. 31

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-17-2026
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.2

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Washington TWP.
T-91N R-37W
SEC. 30

SE1/4 SW1/4
SEC. 30

NE1/4 NW1/4
SEC. 31

NW1/4 NE1/4
SEC. 31

3
L.C.C.C. INC

13
ANDREA M HUELSING
BARBARA E FULCHER LIFE ESTATE

555+00

560+00

565+00

+30.06 Prop.
(ENTL553)
Type "D" Ent.

+89.43 Prop.
(ENTL566)
Type "D" Ent.

7

7

2R
CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY
TEMPORARY EASEMENT
TO SHAPE

STA: 557+51.00
OFF: 42.00' RT

STA: 559+57.00
OFF: 39.00' RT

STA: 560+55.00
OFF: 32.13' RT

STA: 566+61.00
OFF: 32.21' RT

2R
CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY
TEMPORARY EASEMENT
TO SHAPE

STA: 567+03.00
OFF: 41.00' RT

6
PLATINUM CRUSH LLC

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-24-2026
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

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FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.3	

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Washington TWP.
T-91N R-37W
SEC. 31

NW1/4 NE1/4
SEC. 31

13
ANDREA M HUELSING
BARBARA E FULCHER LIFE ESTATE

Sta. 574+65.95
TRIPLE 12.5'x12.0'x78.3' RCB
D.A. =6,440 A-R
U.A.C.

570+00

575+00

580+00

STA: 575+73.38
OFF: 75.00' LT

STA: 578+78.00
OFF: 68.00' LT

STA: 580+00.00
OFF: 67.00' LT

7

7

2R

STA: 570+03.00
OFF: 56.00' RT

CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY
TEMPORARY EASEMENT
TO SHAPE

STA: 574+41.00
OFF: 62.00' RT

STA: 574+87.00
OFF: 63.00' RT

STA: 575+67.00
OFF: 57.00' RT

STA: 578+06.00
OFF: 61.00' RT

STA: 579+23.00
OFF: 55.00' RT

STA: 580+84.00
OFF: 62.00' RT

6
PLATINUM CRUSH LLC

Powell Creek

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-24-2026
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.4	

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Washington TWP.
T-91N R-37W
SEC. 31

NE1/4 NE1/4
SEC. 31

Washington TWP.
T-91N R-37W
SEC. 32

NW1/4 NW1/4
SEC. 32

80th Ave (SR80th)

13
ANDREA M HUELSING
BARBARA E FULCHER LIFE ESTATE

15
LARRY G &
SHERLY M CARLSON

Sta. 593+85.93, 284' LT
2.0'x3.0'x42.0' RCB
Remove

STA: 583+76.00
OFF: 70.00' LT

585+00

STA: 585+99.00
OFF: 71.00' LT

STA: 588+36.00
OFF: 77.00' LT

590+00

STA: 591+72.00
OFF: 80.00' LT

STA: 592+96.00
OFF: 85.00' LT

STA: 593+65.00
OFF: 92.15' LT

595+00

STA: 594+75.54
OFF: 86.00' LT

STA: 595+75.01
OFF: 83.99' LT

7

STA: 582+54.00
OFF: 69.00' RT

STA: 592+42.00
OFF: 106.00' RT

2R
CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY
TEMPORARY EASEMENT
TO SHAPE

STA: 594+37.00
OFF: 106.00' RT

STA: 595+63.00
OFF: 92.58' RT

STA: 595+49.00
OFF: 103.00' RT

STA: 595+40.00
OFF: 152.00' RT

TEMPORARY EASEMENT
TO SHAPE

STA: 596+42.00
OFF: 153.00' RT

TEMPORARY EASEMENT
TO CONSTRUCT ENTRANCE

+60.26 Prop.
(ENTR2600)
Type "B" Ent.

STA: 596+14.00
OFF: 192.58' RT

STA: 594+35.00
OFF: 192.56' RT

6
PLATINUM CRUSH LLC

(CLOSE) Field Ent.
Approx. STA: 2599+23.07

(CLOSE) Ent.
Approx. STA: 2599+95

IOWA PUBLIC SERVICE COMPANY
MID AMERICAN SUBSTATION

+15.22 Prop.
(ENTR2599)
Type "B" Ent.

+15.22 Prop.
(ENTR2599)
Type "B" Ent.

+16.15 Prop.
(ENTR2599)
Type "D" Ent.

SE1/4 NE1/4
SEC. 31

SW1/4 NW1/4
SEC. 32

80th Ave
(SR80th)

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-24-2026
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.5	

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NW1/4 NW1/4
SEC. 32

Washington TWP.
T-91N R-37W
SEC. 32

SE1/4 NW1/4
SEC. 32

SW1/4 NW1/4
SEC. 32

15

LARRY G &
SHERLY M CARLSON

A: 594+75.54
F: 86.00' LT

STA: 595+75.00
OFF: 84.00' LT

STA: 597+51.00
OFF: 81.00' LT

600+00

STA: 600+01.00
OFF: 72.00' LT

STA: 604+31.00
OFF: 62.00' LT

605+00

STA: 607+70.00
OFF: 67.00' LT

STA: 609+30.00
OFF: 73.00' LT

910+00

Sta. 610+23.35
42"x67' RCP
D.A.=42.4-R
Remove

Sta. 609+27.00
Install 42" x 60' RCP

STA: 595+63.00
OFF: 92.58' RT

STA: 595+49.00
OFF: 103.00' RT

STA: 595+40.00
OFF: 152.00' RT

STA: 598+94.00
OFF: 90.42' RT

2R

STA: 601+34.00
OFF: 96.00' RT

STA: 603+07.00
OFF: 92.00' RT

STA: 604+13.00
OFF: 91.00' RT

2R

STA: 605+08.00
OFF: 81.00' RT

CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY

TEMPORARY EASEMENT
TO SHAPE

CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY

TEMPORARY EASEMENT
TO CONSTRUCT ENTRANCE

TEMPORARY EASEMENT
TO SHAPE

STA: 607+29.00
OFF: 73.00' RT

STA: 609+06.00
OFF: 74.00' RT

STA: 609+15.00
OFF: 60.00' RT

36"X37"
Cast Iron Pipe

+60.26 Prop.
(ENTR2800)
Type "B" Ent.

STA: 596+42.00
OFF: 153.00' RT

STA: 596+14.00
OFF: 192.58' RT

+15.2 Prop.
(ENTR2499)
Type "B" Ent.

IOWA PUBLIC SERVICE
MID AMERICAN SUBSTATION

MIDWEST POWER SYSTEMS INC

Right of Way Design Information

THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-8-2026
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.6	

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SE1/4 NW1/4
SEC. 32

15

LARRY G &
SHERLY M CARLSON

SW1/4 NE1/4
SEC. 32

CLYDE L &
BEVERLY A CHRISTIANSEN

STA: 612+95.00
OFF: 59.82' LT

615+00

620+00

625+00

7

7

CENTER

SECTION

32

End Construction
END STPN-007-2(039)--2J-11
Sta. 613+60.89

STA: 612+77.00
OFF: 51.00' RT

STA: 613+97.00
OFF: 32.81' RT

F02

F02

2R

CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY

TEMPORARY EASEMENT
TO SHAPE

MIDWEST POWER SYSTEMS INC

BALLOU HOLDINGS LLC

NW1/4 SE1/4
SEC. 32

NE1/4 SW1/4
SEC. 32

Right of Way Design Information

THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-8-2026
Color Legend:

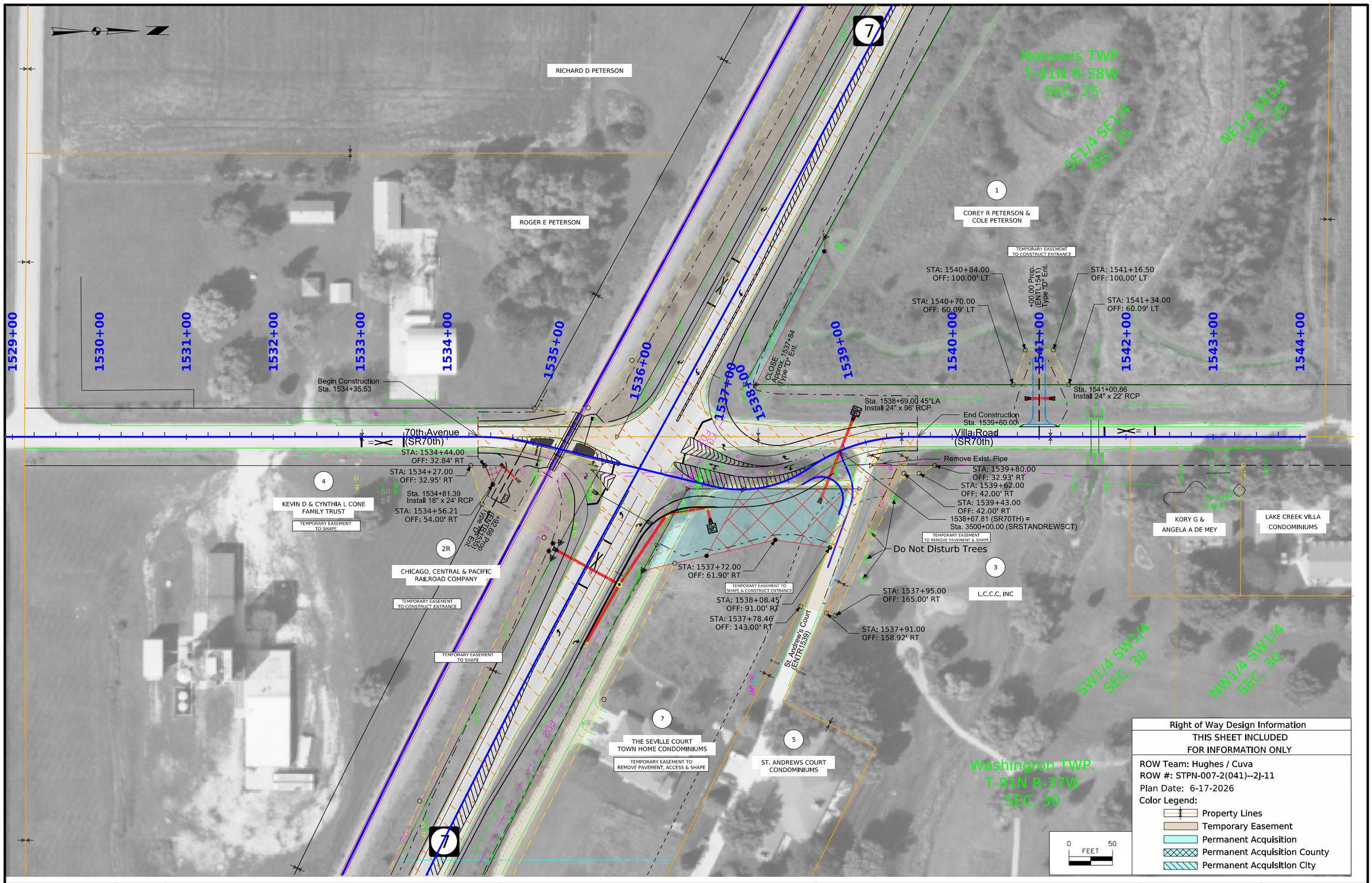
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER H.7	

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FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER HE.1

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Washington TWP
T-91N R-37W
SEC. 31

SE1/4 NE1/4
SEC. 31

NE1/4 NE1/4
SEC. 31

6
PLATINUM CRUSH LLC

2R
CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY
TEMPORARY EASEMENT
TO SHAPE

7

13
ANDREA M HUELSING
BARBARA E FULCHER LIFE ESTATE

2595+00
2596+00
2597+00
2598+00
2599+00
2600+00
2601+00
2602+00
2603+00
2604+00
2605+00
2606+00
2607+00
2608+00
2609+00

STA: 2597+67.00
OFF: 46.59' LT

STA: 2598+88.00
OFF: 69.00' LT

STA: 2599+52.00
OFF: 70.00' LT

STA: 2600+11.00
OFF: 69.00' LT

Sta. 2599+15.22
Install 18" x 52' RCP

+15.22 Prop.
(ENT 2599)
Type "B" Ent.

+16.15 Prop.
(ENT 2597)
Type "D" Ent.

Sta. 2597+16.20
Install 22" x 14" x 40' Class 5 Arch RCP

Remove

80th Avenue (SR80TH)

Begin Construction
Sta. 2596+50.00

U.A.C.

Sta. 2599+21.62
Install 18" x 94' RCP

+15.22 Prop.
(ENT 2599)
Type "B" Ent.

(CLOSE ENT.
Approx. 2599+95

+60.26 Prop.
(ENT 2600)
Type "B" Ent.

(CLOSE) Field Rtn.
Approx. STA: 2600+13.07

U.A.C. Existing
Tile Drain

End Construction
Sta. 2608+09.44

80th Avenue (SR80TH)

STA: 2608+06.00
OFF: 50.33' RT

STA: 2606+64.00
OFF: 60.00' RT

STA: 2605+17.00
OFF: 67.00' RT

Sta. 2605+18.00
Install 30" x 66' RCP

Sta. 2605+25.00
Install 30" x 66' RCP

STA: 2604+00.00
OFF: 62.00' RT

STA: 2604+57.00
OFF: 64.00' RT

TEMPORARY EASEMENT
TO SHAPE

TEMPORARY EASEMENT
TO CONSTRUCT ENTRANCE

IOWA PUBLIC SERVICE
MID AMERICAN SUBSTATION

2R
CHICAGO, CENTRAL & PACIFIC
RAILROAD COMPANY

MIDWEST POWER SYSTEMS INC

7

15
LARRY G &
SHERLY M CARLSON

NW1/4 NW1/4
SEC. 32

SW1/4 NW1/4
SEC. 32

Washington TWP
T-91N R-37W
SEC. 32

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: Hughes / Cuva
ROW #: STPN-007-2(041)--2J-11
Plan Date: 6-24-2026
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition
Permanent Acquisition County
Permanent Acquisition City

FILE NO. 98765	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	Buena Vista COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER HE.2

10:24:11 AM 6/24/2026 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\1100704025\ROW\ROW_11007041.dgn

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108_23A
8/15/22

TRAFFIC CONTROL PLAN

Traffic control on this project shall be in accordance with the Iowa DOT Standard Road Plans and the specific layouts shown in the plans. For additional information, refer to Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), Iowa DOT Standard Road Plans TC Series and the current Standard Specifications.

Iowa 7: IA 7 closed to thru traffic with posted detour route during certain phases of the project. Local access will be maintained during all phases.

Sideroads: Portions of 70th Avenue / Villa Road, 80th Avenue, and St Andrews Drive will have closures at varying times. 70th Avenue / Villa Road and 80th Avenue shall not be closed at the same time. Access to St Andrews Drive shall be maintained at all times through staged construction.

Contractor to ensure positive drainage is maintained at all times.

Refer to Tab. 108-26A for Staging Notes.

Use Portable Dynamic Message Signs (PDMS) in conjunction with traffic control and detour signage. Contractor shall provide PDMS and messages. Locations and messages shall be coordinated with the Engineer.

PDMS shall be used for 14 days prior to closing IA 7.

511 TRAVEL RESTRICTIONS

Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks

STAGING NOTES

GENERAL NOTES:

It is not the intent of the sequence of construction to confine the Contractor's activity to the areas of suggested stages alone. Various operations can occur concurrently provided that traffic is maintained and concurrent operations do not conflict with staging and maintenance of traffic operations and requirements indicated herein.

Stage 1A:
Traffic:
Maintain traffic on existing IA 7 at all times in accordance with J Sheets.
Maintain traffic on 70th Avenue/Villa Road and south leg of 80th Avenue intersection at all times in accordance with J Sheets.
Close north leg of 80th Avenue intersection. PDMS shall be placed 14 days prior to the closure. Detour route and signage shall be provided by Buena Vista County.
Maintain access to driveways, St Andrews Drive and field entrances.
Construction:
Remove the north leg of intersection 80th Avenue and existing IA 7.
Grade and pave proposed IA 7 and realign the north leg of intersection 80th Avenue and proposed IA 7 in accordance with J Sheets.

Stage 1B:
Traffic:
Close IA 7 at existing 80th Avenue intersection. PDMS shall be placed 14 days prior to the closure.
Detour IA 7 traffic. See Sheet J.25 for detour route.
IA 7 closures shall be installed in accordance with J Sheets. Maintain traffic on 70th Avenue/Villa Road at all times in accordance with J Sheets.
Close entire 80th Avenue intersection. PDMS shall be placed 14 days prior to the closure. Detour route and signage shall be provided by Buena Vista County.
Maintain access to driveways, St Andrews Drive and field entrances along IA 7 west of the Powell Creek RCB.
Construction:
Grade and pave IA 7 from Powell Creek RCB east to proposed 80th Avenue intersection constructed in Stage 1A.
Grade and pave IA 7 from proposed 80th Avenue intersection constructed in Stage 1A to east end of project.

Stage 1C:
Traffic:
Maintain thru and local traffic on proposed IA 7 at all times by shifting traffic on the newly constructed lanes to the north.
Maintain traffic on 70th Avenue/Villa Road and north leg of proposed 80th Avenue intersection at all times in accordance with J Sheets.
Close south leg of 80th Avenue intersection. Detour route and signing shall be provided by Buena Vista County.
Maintain access to driveways, St Andrews Drive and field entrances.
Construction:
Grade and pave southern leg of 80th Avenue intersection.

Stage 2A:
Traffic:
Close IA 7 and 70th Avenue at the proposed intersection. PDMS shall be placed 14 days prior to the closure.
Detour IA 7 traffic. See Sheet J.25 for detour route.
Detour route and signing shall be provided by Buena Vista County.
Open 80th Avenue intersection to traffic.
Access to local IA 7 driveways, field entrances and St. Andrews Drive shall be maintained via IA 7 east of 70th Avenue.
Construction:
Grade and pave IA 7 from start of project to east of 70th Avenue intersection

Stage 2B:
Traffic:
IA 7 closures shall be installed in accordance with J Sheets. PDMS shall be placed 14 days prior to the closure.
Detour IA 7 thru traffic. See Sheet J.25 for detour route.
Maintain IA 7 local access to driveways at all times by constructing a temporary gravel driveway on the north side of IA 7. See Sheet J.26.
St. Andrews Drive shall be constructed in substages as shown as on the J Sheets to maintain access to IA 7 at all times.
Both 70th Avenue and 80th Avenue intersections shall be open to traffic.
Construction:
Grade and pave IA 7 from east of 70th Avenue/Villa Road intersection to just past St. Andrews Drive.

Stage 2C:
Traffic:
IA 7 closures shall be installed in accordance with J Sheets. PDMS shall be placed 14 days prior to the closure.
Detour IA 7 thru traffic. See Sheet J.25 for detour route.
Maintain IA 7 local access to driveways at all times by thru traffic on the north side of IA 7.
Both 70th Avenue and 80th Avenue intersections shall be open to traffic.
Construction:
Grade and pave IA 7 just past St. Andrews Drive to the existing Powell Creek RCB.

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Med	(237)	Future Proposed Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail (Unpinned)		Temporary Barrier Rail (Pinned)
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Magenta	(5)	Pavement Marking Call Outs
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)	Pavement Markings, Yellow
Off White	(254)	Pavement Markings, White
Violet	(15)	Temporary barrier rail, Unpinned
Flush Orange	(228)	Temporary barrier rail, Pinned

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

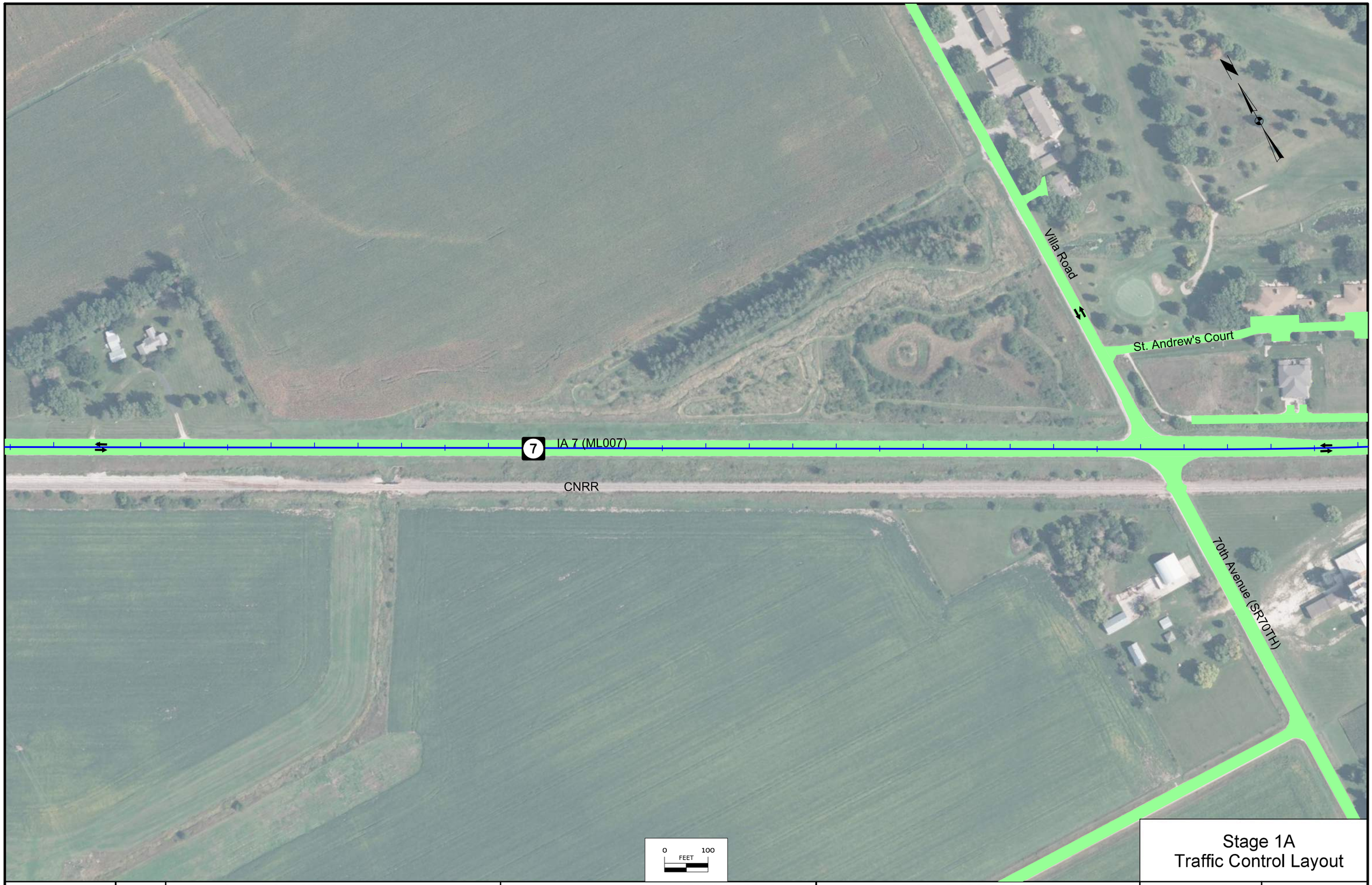
PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

●	Channelizing Device		Crash Cushion (Temp or Perm)
✕	Drum		Traffic Signal
◘	Temporary Lane Separator		Flagger
◆	Tubular Marker		Temporary Floodlighting
♦	Channelizer Marker		Traffic Sign
△	Concrete Barrier Marker		Type III Barricade
⊰	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout	1	Lane Identification

NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)



Stage 1A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.5**	

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Stage 1A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.6**	

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1500'

575+00

580+00

585+00

590+00

595+00

600+00

500'

80th Avenue (SR80TH)

Install 80th Avenue closure per TC-252 at the intersection of 80th Avenue and 590th Street

7 IA 7 (ML007)

CNRR

R3-2
36" x 36"

ROAD CLOSED 500 FT

W20-3
48" x 48"

ROAD CLOSED AHEAD

W20-3
48" x 48"

500'

500'

0 100
FEET

Stage 1A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.7**	

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500'

1000'

605+00

610+00

615+00

620+00

625+00

630+00

R3-1
36" x 36"

ROAD
WORK
AHEAD

W20-1
48" x 48"

END
ROAD WORK

G20-2A
48" x 24"

7

IA 7 (ML007)

CNRR

0 100
FEET

Stage 1A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.8**	

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510+00
515+00
520+00
525+00
530+00
535+00
540+00
500'
500'
ROAD CLOSED AHEAD
W20-3
48" x 48"
END ROAD WORK
G20-2A
48" x 24"
Villa Road (SR70TH)
St. Andrew's Court
IA 7 (ML007)
CNRR
ROAD CLOSED AHEAD
W20-3
48" x 48"
ROAD CLOSED 500 FT
W20-3
48" x 48"
R11-4
60" x 30"
ROAD CLOSED TO THRU TRAFFIC
See Sheet J.25 for IA 7 Detour
70th Avenue (SR70TH)
300'
ROAD CLOSED AHEAD
W20-3
48" x 48"
0 100
FEET

Stage 1B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER J.9	

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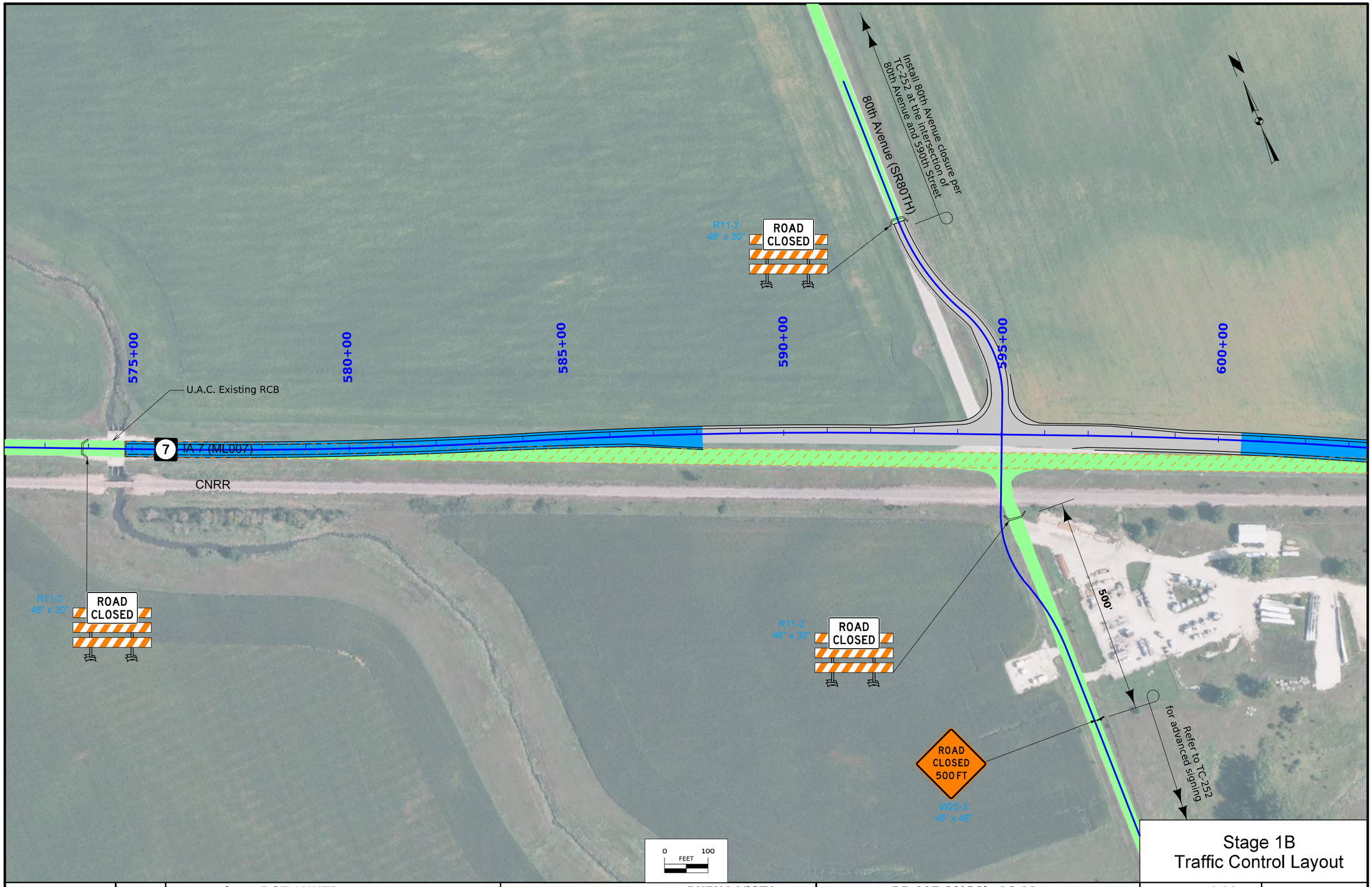
ROAD CLOSED AHEAD
W20-3
48" x 48"
545+00
St. Andrew's Drive
R3-2
36" x 36"
550+00
555+00
R11-2
48" x 30"
ROAD CLOSED
560+00
565+00
570+00
7
IA 7 (ML007)
CNRR
ROAD CLOSED AHEAD
W20-3
48" x 48"
R11-4
60" x 30"
ROAD CLOSED TO THRU TRAFFIC
0 100
FEET

Stage 1B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.10**

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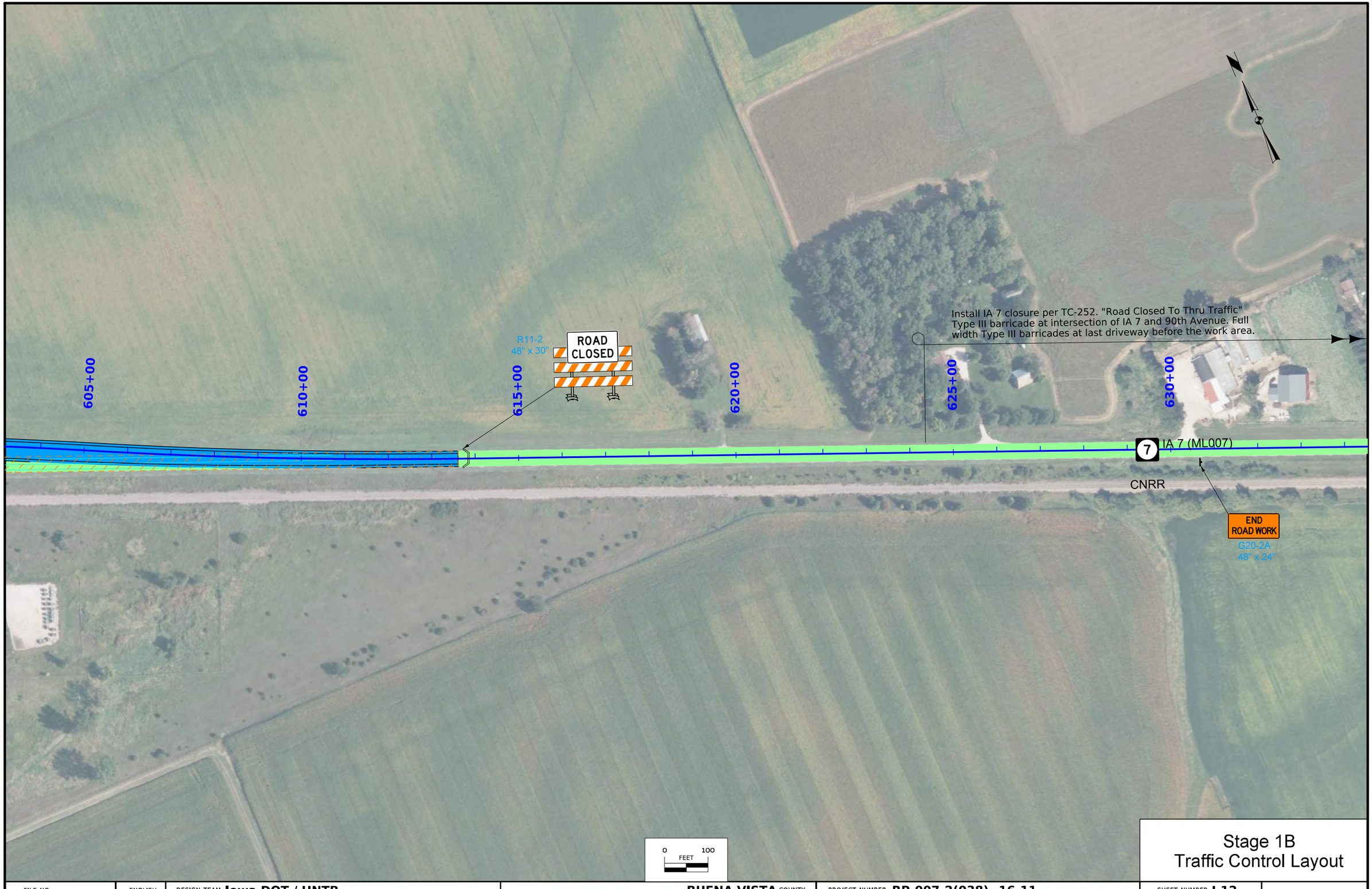


Stage 1B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.11**	

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Stage 1B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.12**	

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Stage 1C
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.13**	

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Stage 1C
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.14**	

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FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.15**	

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605+00

610+00

615+00

620+00

625+00

630+00

DCY6

ROAD WORK AHEAD

W20-1
48" x 48"

END ROAD WORK

G20-2A
48" x 24"

7 IA 7 (ML007)

CNRR

0 100
FEET

Stage 1C
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.16**	

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Install IA 7 closure per TC-252.
"Road Closed To Thru Traffic" Type III barricade
at intersection of IA 7 and 60th Avenue. Full width
Type III barricades at last driveway before the work area.

ROAD CLOSED AHEAD
W20-3
48" x 48"

ROAD CLOSED 500 FT
W20-3
48" x 48"

500'

500'

Villa Road (SR70TH)

Contractor to construct temporary entrance
to maintain access to exisitng driveway.
See Details Below.

R11-2
48" x 30"
ROAD CLOSED

St. Andrew's Court

510+00

515+00

520+00

525+00

530+00

535+00

540+00

7 IA 7 (ML007)

CNRR

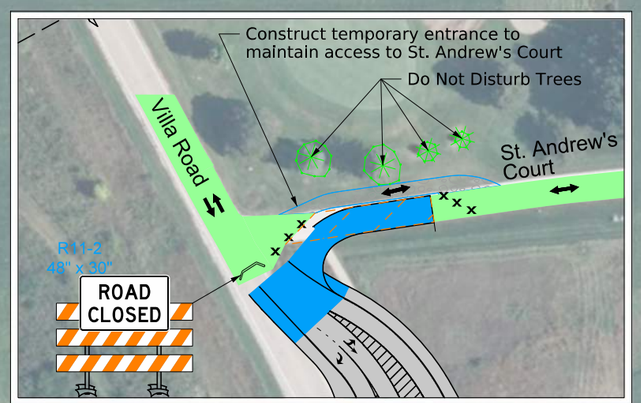
R11-2
48" x 30"
ROAD CLOSED

70th Avenue (SR70TH)

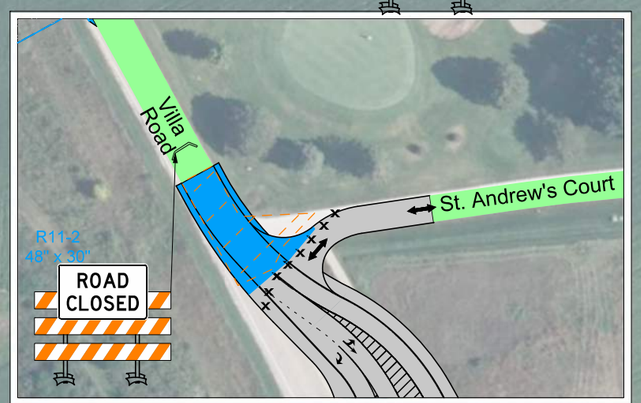
R11-2
48" x 30"
ROAD CLOSED

R11-4
60" x 30"
ROAD CLOSED TO THRU TRAFFIC

Refer to TC-252 for closure signing
at 600th Street and 610th Street



St. Andrew's Court Stage 2A Substage 1



St. Andrew's Court Stage 2A Substage 2

0 100
FEET

Stage 2A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.17**	

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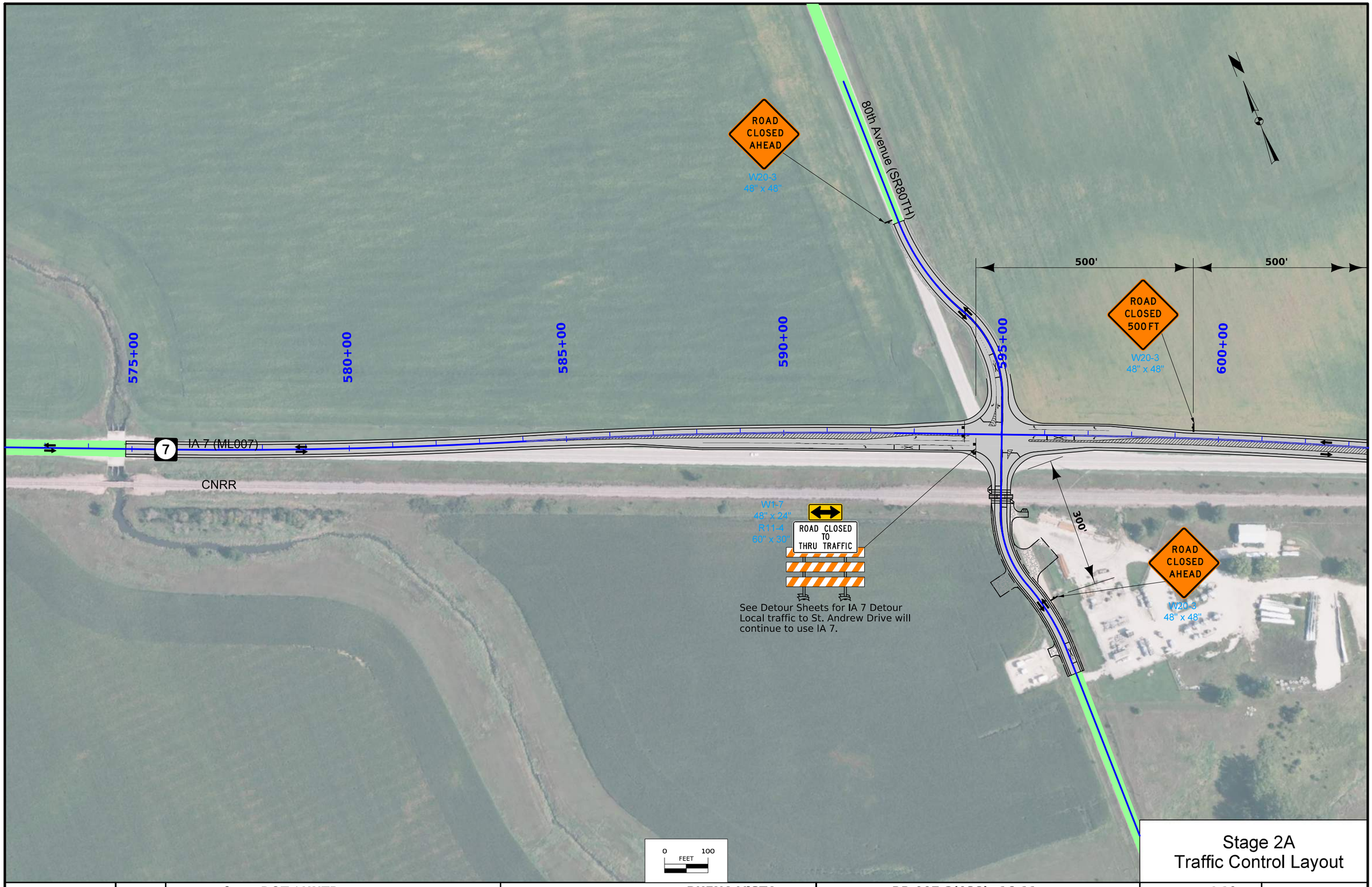
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545+00
550+00
555+00
560+00
565+00
570+00
St. Andrew's Drive
7
IA 7 (ML007)
CNRR
R11-2
48" x 30"
ROAD CLOSED
0 100
FEET
Stage 2A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.18**	

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Stage 2A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.19**	

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500'

605+00

ROAD CLOSED AHEAD

W20-3
48" x 48"

610+00

615+00

ROAD WORK AHEAD

W20-1
48" x 48"

620+00

625+00

630+00

7 IA 7 (ML007)

CNRR

END ROAD WORK

G20-2A
48" x 24"

0 100
FEET

Stage 2A
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.20**	

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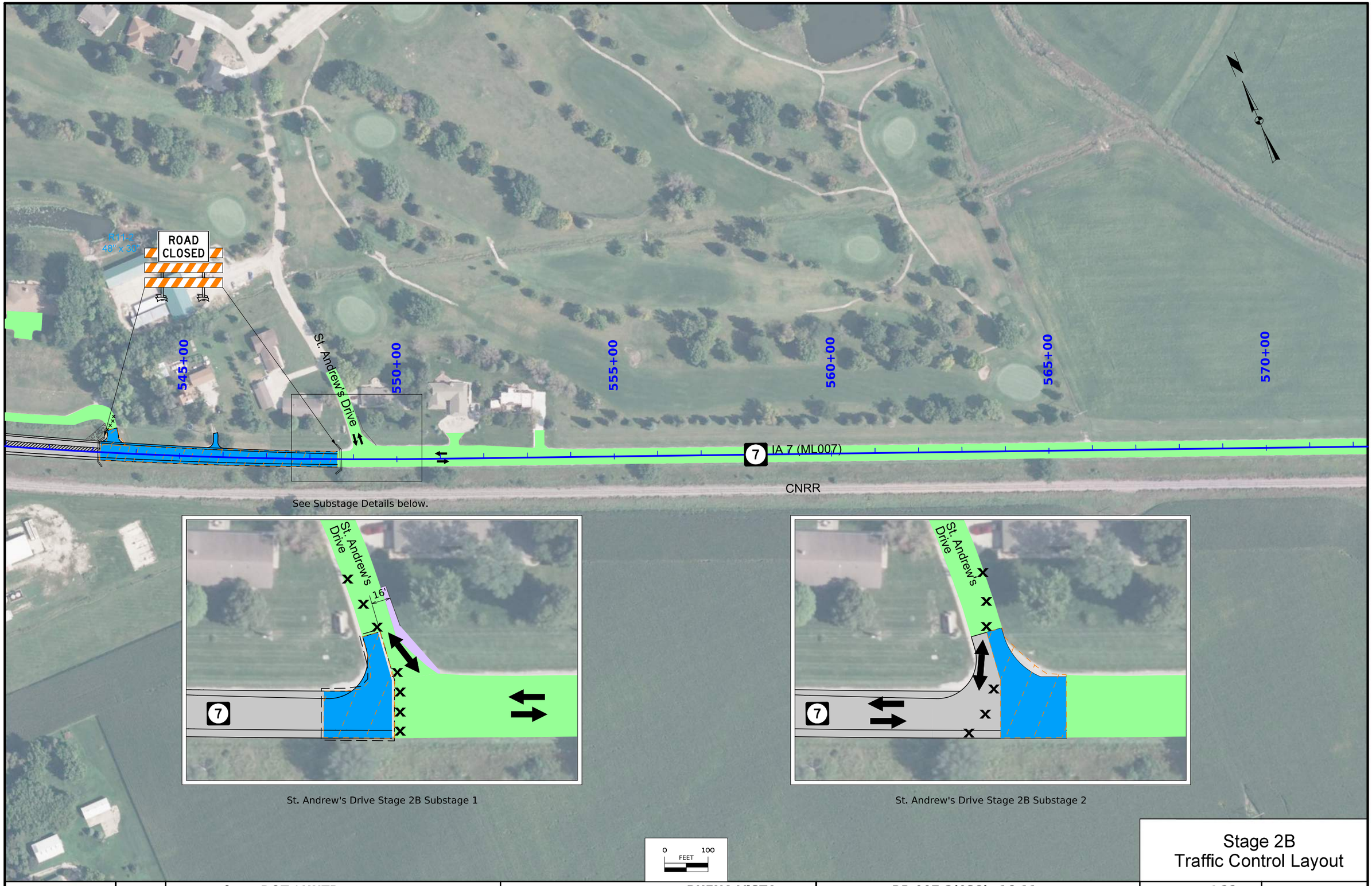
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FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.21**	

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St. Andrew's Drive Stage 2B Substage 1

St. Andrew's Drive Stage 2B Substage 2

0 100
FEET

Stage 2B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.22**	

1:39:56 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_J_11007038Z04.dgn

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80th Avenue (SR80TH)

575+00

580+00

585+00

590+00

595+00

600+00

500'

500'

ROAD CLOSED 500 FT

W20-3
48" x 48"

U.A.C. Existing RCB

7 IA 7 (ML007)

CNRR

W1-7
48" x 24"

R11-4
60" x 30"

ROAD CLOSED TO THRU TRAFFIC

See Sheet J.25 for IA 7 Detour

0 100
FEET

Stage 2B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER J.23	

1:40:07 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_J_11007038Z04.dgn

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500'

605+00

ROAD CLOSED AHEAD

W20-3
48" x 48"

610+00

615+00

ROAD WORK AHEAD

W20-1
48" x 48"

620+00

625+00

630+00

7 IA 7 (ML007)

CNRR

END ROAD WORK

G20-2A
48" x 24"

0 100
FEET

Stage 2B
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.24**	

1:40:09 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_J_11007038Z04.dgn

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FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER J.25	

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545+00

St. Andrew's Drive

550+00

555+00

560+00

565+00

570+00

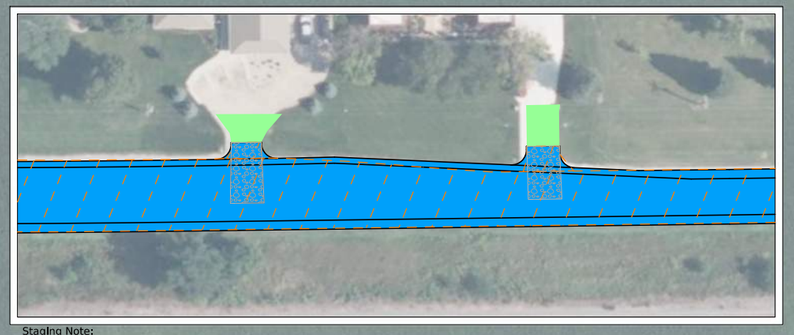
See Detail Below.

7 IA 7 (ML007)

CNRR

R11-2
48" x 30"

ROAD CLOSED



Staging Note:
Construct eastbound IA 7 pavement first to allow for local traffic access on the existing westbound lane. Once the proposed eastbound IA 7 pavement is constructed, shift local traffic on the eastbound lane and maintain access to private driveways via temporary gravel entrances. Construct WB IA 7 pavement from east to west maintaining one way traffic on the proposed eastbound lane.

0 100
FEET

Stage 2C
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER J.26	

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80th Avenue (SR80TH)

575+00

580+00

585+00

590+00

595+00

600+00

500'

500'

ROAD CLOSED 500 FT

W20-3
48" x 48"

U.A.C. Existing RCB

7 IA 7 (ML007)

CNRR

W1-7
48" x 24"
R11-4
60" x 30"

ROAD CLOSED TO THRU TRAFFIC

See Sheet J.25 for IA 7 Detour

0 100
FEET

Stage 2C
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER J.27	

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500'

605+00

ROAD CLOSED AHEAD

W20-3
48" x 48"

610+00

615+00

ROAD WORK AHEAD

W20-1
48" x 48"

620+00

625+00

630+00

7 IA 7 (ML007)

CNRR

END ROAD WORK

G20-2A
48" x 24"

0 100
FEET

Stage 2C
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER J.28	

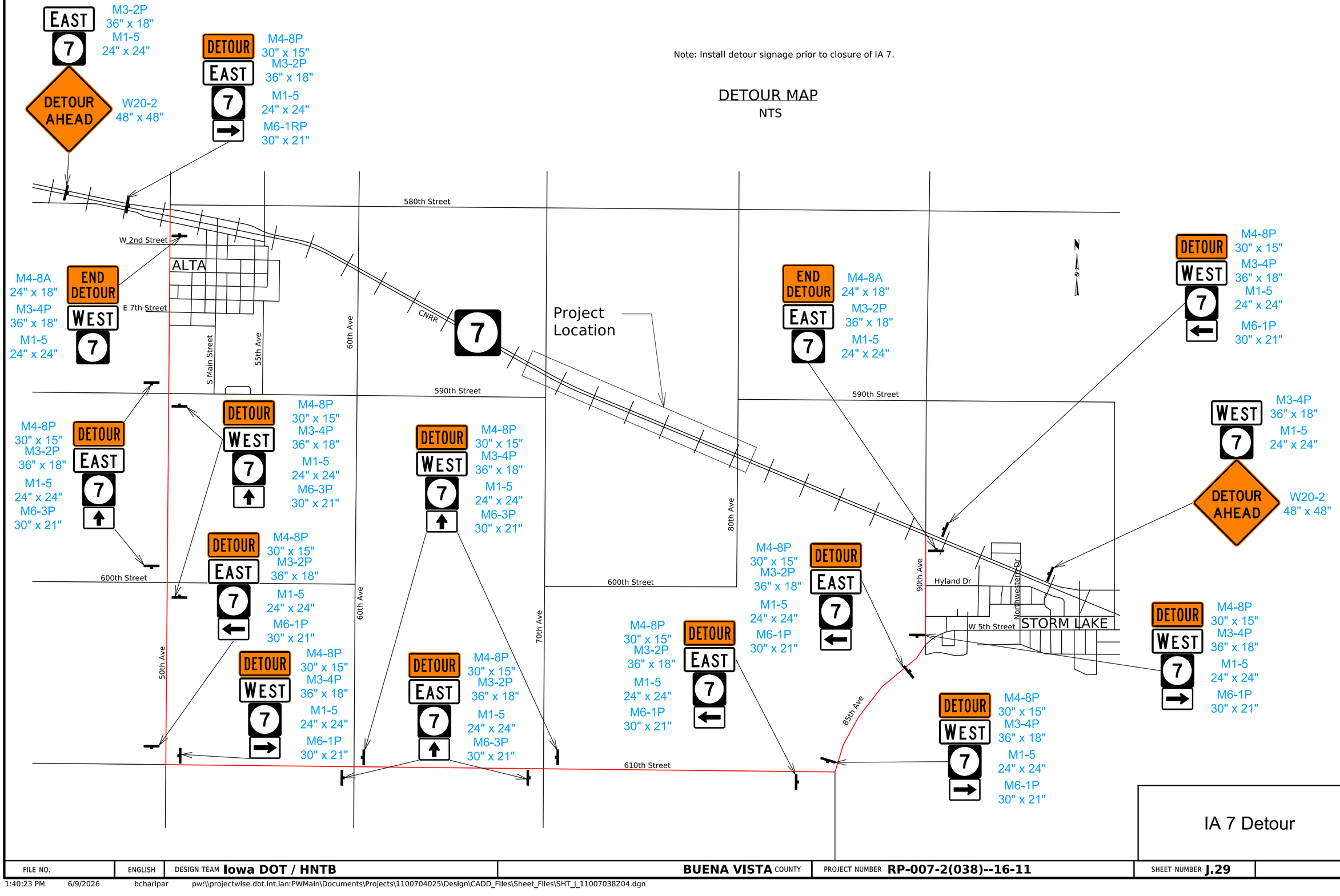
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Note: Install detour signage prior to closure of IA 7.

DETOUR MAP

NTS



IA 7 Detour

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **J.29**

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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)
- Septic Tank (Example Text and Line)
- 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

Alliant Energy
Alliant Energy Field Inspector
(800) 255-4268
locate_IPL@alliantenergy.com

- FO2 - -T1 - CENTURY LINK (Fiber/Telephone)
Sadie Hull
(918) 547-0147
sadie.hull@lumen.com

Cherokee Rural Water District
Paul Hyndman
(712) 225-6193
paul@cherokeeruralwater.com

-W- CITY OF STORM LAKE (Water)
Matthew Beckman
(712) 732-8000
beckman@stormlake.org

Iowa Lakes Electric Co-op
Kay Dahl
(712) 362-2694
ioc-dir@ilec.coop

- FO3- MEDIACOM (Fiber)
Mike Lawler
(515) 571-2183
mlawler@mediacomcc.com

- E1 - MID-AMERICAN (Electric)
Steve Heckert
(712) 749-7126
steven.heckert@midamerican.com

- FO - MID-AMERICAN (Fiber)
Telecom On Call
(515) 281-2313
telecomoncall@midamerican.com

- G - NORTHERN NATURAL GAS COMPANY
Miles Peterson
(402) 404-0609
Miles.peterson@nngco.com

- FO4 - SUMMIT
Contact Name
Contact Email

Verizon Investigations
(469) 886-4090
investigations@verizon.com

PLAN VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Topographic Features, Utilities, and Labels
Black	(17)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Black	(230)	Proposed Structures
Black	(3)	Proposed Pipes
SHADING	**Design Color No.**	
Gray, Light	(48)	Proposed Pavement Shading

PROFILE VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Ground Line Profile and Existing Utilities Information
Blue	(230)	Proposed Structures
Red	(3)	Proposed Pipes

PLAN VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Plug and Abandon Existing Pipe or Structure
- Removal of Existing Pipe or Structure
- Previously Constructed Pipe or Structure
- Direction of Pipe Flow

PROFILE VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Existing Ground
- Proposed Ground
- Previously Constructed Pipe or Structure
- Proposed Pipe Structure
- Proposed Pipe

- Reference Point
- Survey Line
- Station
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

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

STORM SEWER LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES M)

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **M.1**

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Sta. 535+54.09, 208' LT
Skew 23° RT AH
15"x41' CMP

Washington TWP.
T-91N R-37W
SEC. 30

Sta. 543+68.11, 49' LT
18"x44' CMP

Sta. 537+20.72
24"x64' RCP
D.A.=2.0 A-R

O-105
P-104
I-104
P-103
I-103
P-101
P-102
M-102
I-101
P-106
I-106

1539+00
1538+00
1537+00
1536+00
1535+00
1534+00
1533+00

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544+00
545+00
546+00

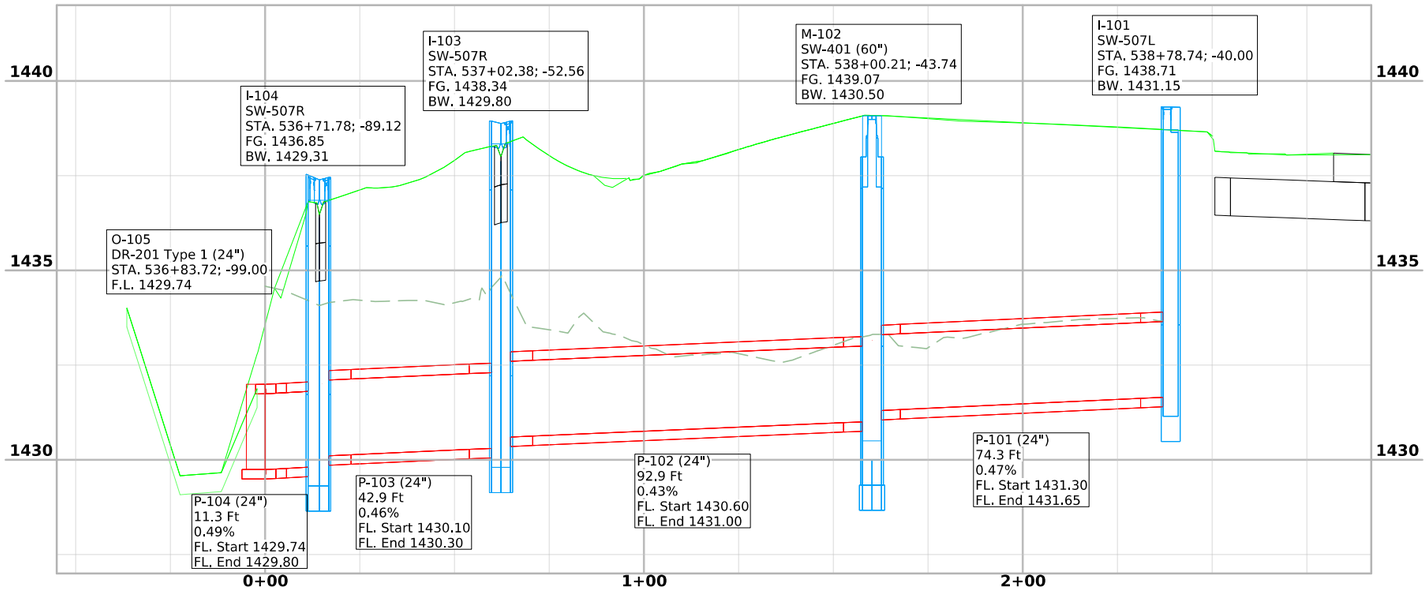
F02
F03

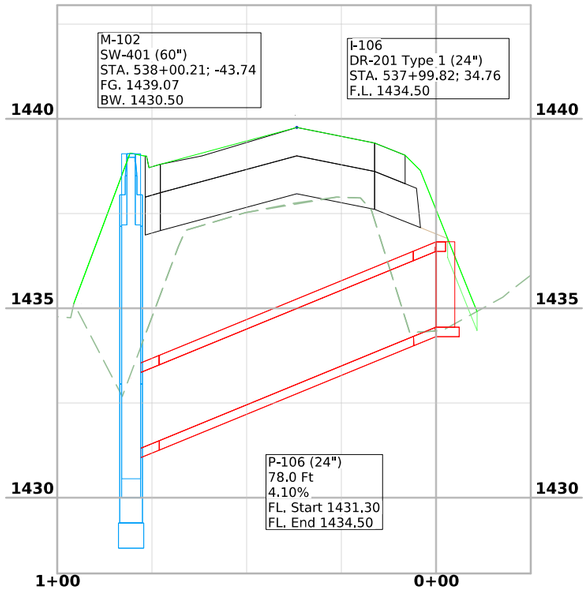
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FEET

Storm Sewer Layout

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **M.2**

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Storm Sewer Profiles

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **M.3**

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Station 535+22.00
Offset 38.85 LT
ML007
30-8-III-U0-701

535+00

70th Ave (SR70TH)

Station 536+90.00
Offset 76.60 LT
ML007
30-8-III-U0-704

HH#1

Pole-mounted
Lighting Controller
with Meter

F03

F02

IA 7 (ML007)

7

CNRR

Station 536+33.00
Offset 49.75 RT
ML007
30-8-III-U0-702

Station 537+61.00
Offset 39.69 RT
ML007
30-8-III-U0-703

1535+00

0 20
FEET

LIGHTING LEGEND

Proposed Single Arm Light Standard
30' mounting height, 1-8' mastarm and LED luminaire,
Leotek catalog no. GCM1-60J-MV-40K-3R-095-PCR7.

Proposed Handhole, Standard Plan LI-103 Type 2

Pole-mounted Lighting Controller, Standard Plan LI-151

Proposed Underground Electrical Duct Standard Plan LI-141

Station 000+00
30-8-III-U0-xxx

- Lighting Unit No.
- Vertical Light Distribution
- Lateral Light Distribution
- Mastarm Length (ft.)
- Mounting Height (ft.)

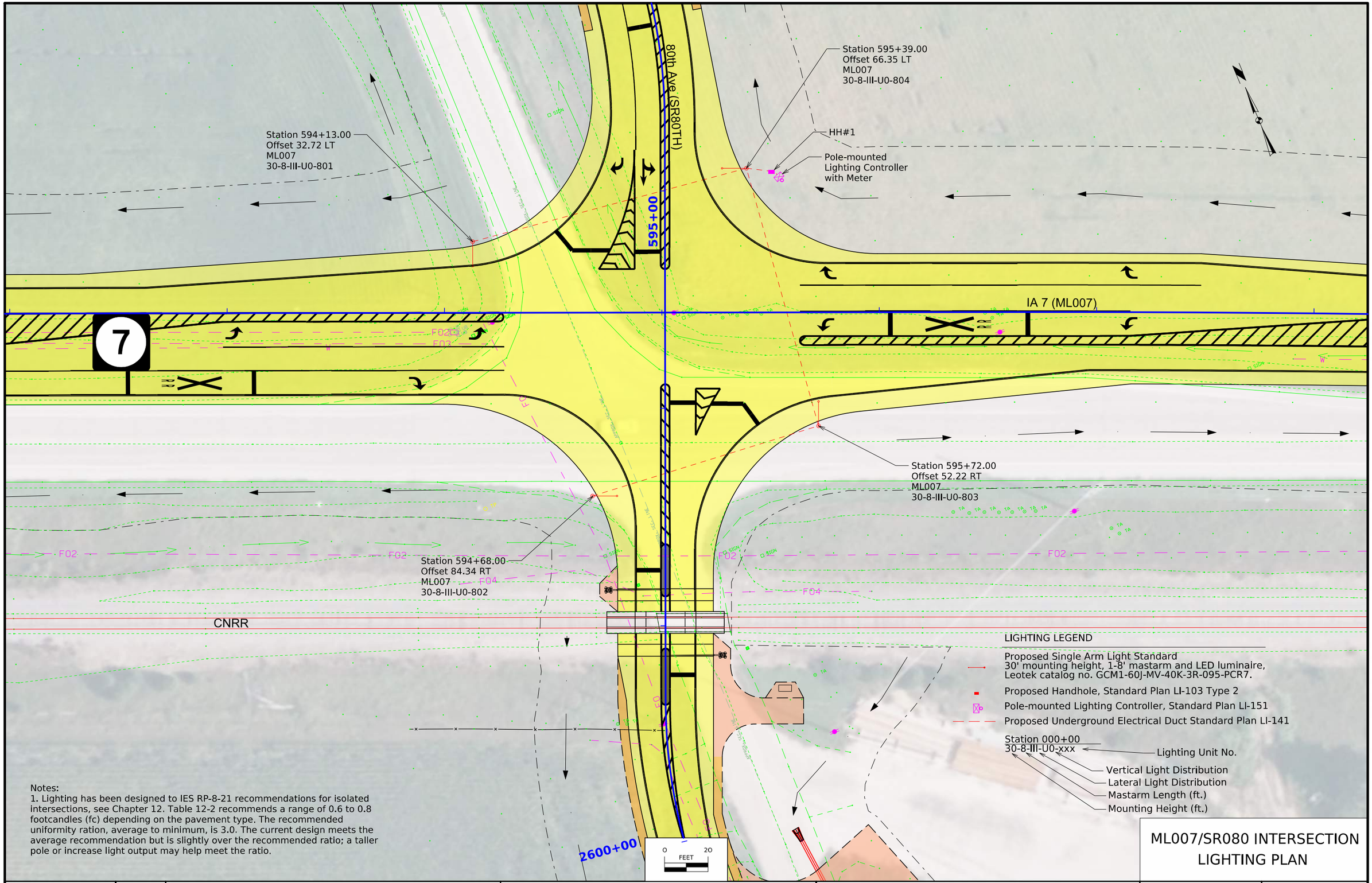
Notes:
1. Lighting has been designed to IES RP-8-21 recommendations for isolated intersections, see Chapter 12. Table 12-2 recommends a range of 0.6 to 0.8 footcandles (fc) depending on the pavement type. The recommended uniformity ration, average to minimum, is 3.0. The current design meets the average recommendation but is slightly over the recommended ratio; a taller pole or increase light output may help meet the ratio.

ML007/SR070 INTERSECTION LIGHTING PLAN

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **P.1**

1:40:46 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_P_11007038Z04.dgn

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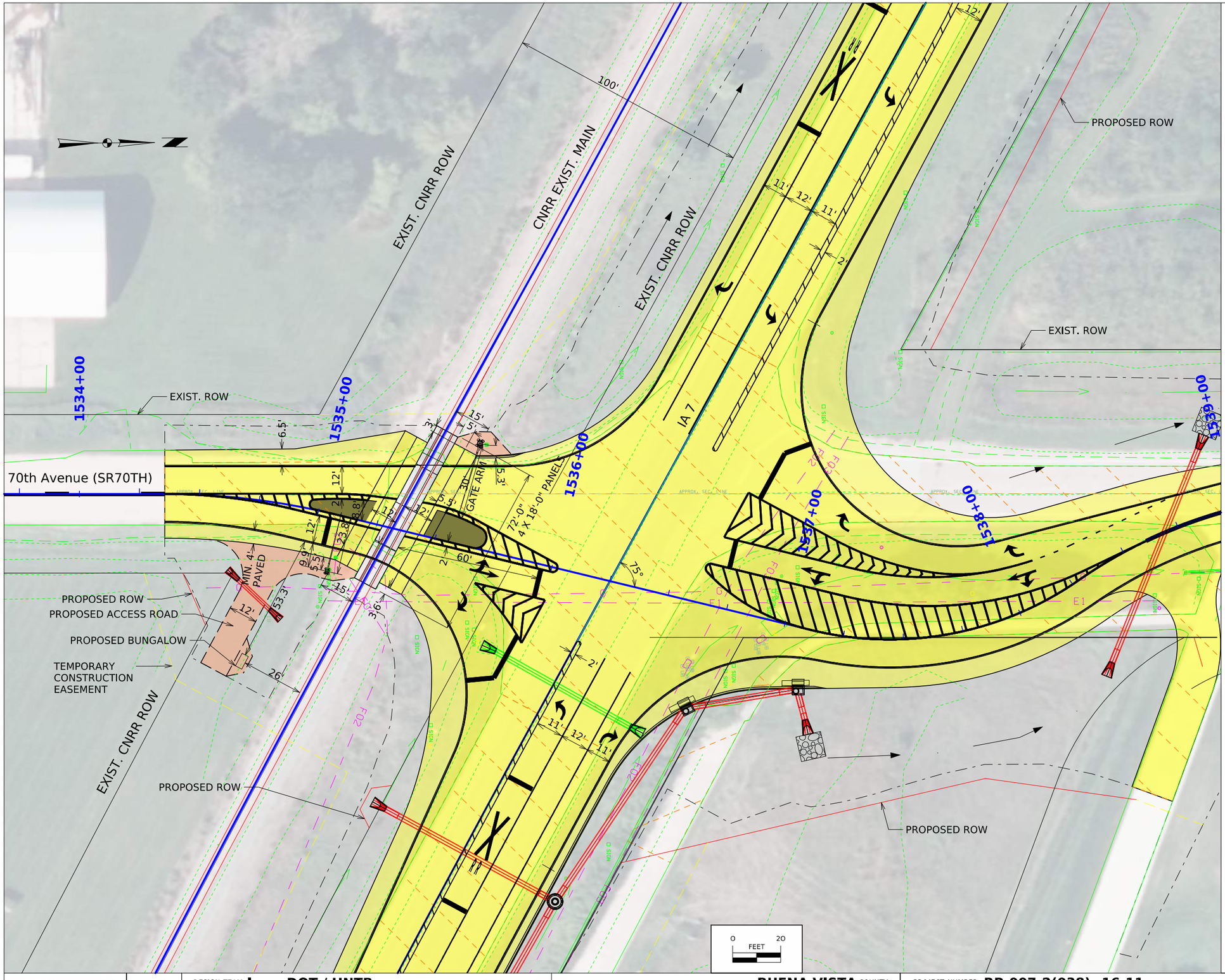
Notes:
1. Lighting has been designed to IES RP-8-21 recommendations for isolated intersections, see Chapter 12. Table 12-2 recommends a range of 0.6 to 0.8 footcandles (fc) depending on the pavement type. The recommended uniformity ration, average to minimum, is 3.0. The current design meets the average recommendation but is slightly over the recommended ratio; a taller pole or increase light output may help meet the ratio.

ML007/SR080 INTERSECTION LIGHTING PLAN

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **P.2**

1:40:56 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_P_11007038Z04.dgn

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CONSTRUCTION NOTES

1. ALL SIGNING, PAVEMENT MARKINGS, AND WARNING DEVICES SHALL BE CONSTRUCTED / INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STATE HIGHWAY STANDARDS.

2. FULL ROAD CLOSURE WITH DETOUR IS ANTICIPATED TO COMPLETE ROADWAY WORK.

CNRR

1. EXISTING AT-GRADE CROSSING SHALL BE CLOSED DURING CONSTRUCTION.

2. CNRR TO PERFORM TRACK WORK AND INSTALL NEW OMEGA HEAVY (18' INTERVALS) PRECAST CONCRETE PANELS, 12-INCH LED MAST-MOUNTED AUTOMATIC FLASHING LIGHTS WITH GATES, TWO ELECTRONIC BELLS, CONSTANT WARNING TIME CIRCUITRY, AND BUNGALOW.

3. CNRR SHALL REMOVE EXISTING CROSSING PANELS, ROADWAY SURFACE AND PASSIVE WARNING DEVICES TO BE DISPOSED BY IOWA DOT CONTRACTOR.

CONTRACTOR

1. CONSTRUCT PROPOSED ROADWAY ADJACENT TO PROPOSED CNRR WORK LIMITS.

2. CONSTRUCT PROPOSED ACCESS ROAD AND BUNGALOW PAD.

3. REMOVE EXISTING ROADWAY APPROACHES AND PERFORM NECESSARY GRADING ALONG CNRR ROW.

4. INSTALL SIGNING AND PAVEMENT MARKINGS FOR CROSSING PRIOR TO COMPLETION OF ROADWAY CONSTRUCTION.

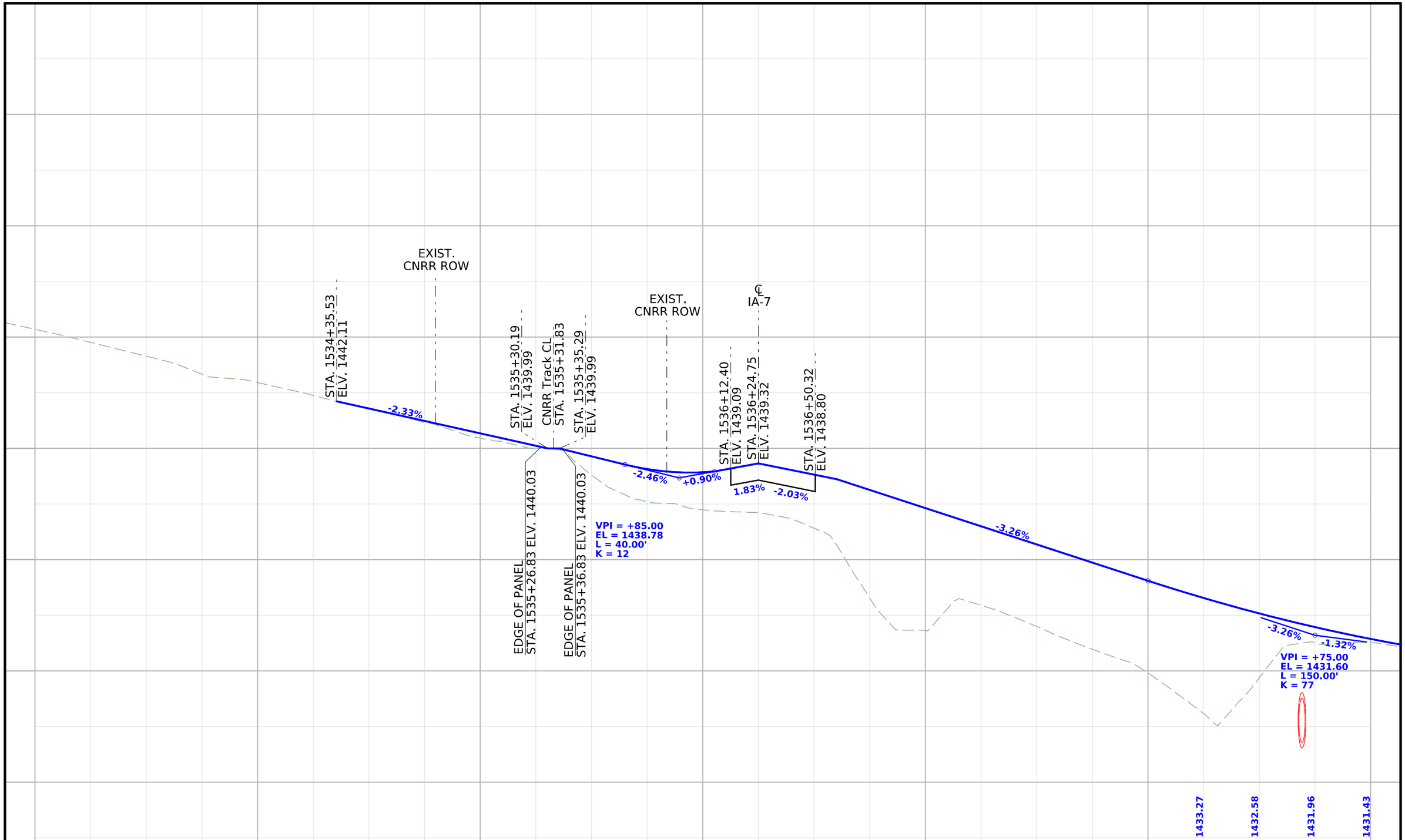
AAR/DOT#: 307522A, MP 432.21 CHEROKEE SUBDIVISION
STORM LAKE, IA (BUENA VISTA COUNTY)
IA 7 / 70TH AVE. INTERSECTION

PROPOSED CNRR CROSSING DETAIL
70TH AVENUE PLAN

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **U.1**

2:58:42 PM 6/11/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Sheet_Files\SHT_U_RR_MS_11007038Z04.dgn

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AAR/DOT#: 307522A, MP 432.21 CHEROKEE SUBDIVISION
STORM LAKE, IA (BUENA VISTA COUNTY)
IA 7 / 70TH AVE. INTERCHANGE

PROPOSED CNRR CROSSING DETAIL
70TH AVENUE PROFILE

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **U.2**

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IA 7

EXIST. CNRR ROW

CNRR EXIST MAIN

EXIST. CNRR ROW

13+00

14+00

15+00

16+00

17+00

18+00

19+00

PROPOSED ROW

F02

Sta. 1535+31.73 (SR70TH) =
Sta. 16+05.84 (CNRR)

PROPOSED BUNGALOW

70th Avenue (SR70TH)

EXIST. CNRR ROW

PROPOSED ACCESS ROAD

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED ROW

0 20
FEET

℄
70TH AVENUE

1445

1440

1435

1430

EXIST. T/R MAIN TRACK

1438.59 1438.70 1438.81 1438.92 1439.05 1439.18 1439.30 1439.43 1439.56 1439.70 1439.83 1439.85 1439.88 1439.91 1439.92 1439.90 1439.88 1439.85 1439.82 1439.77 1439.71 1439.66 1439.60 1439.55 1439.50

13+00 14+00 15+00 16+00 17+00 18+00

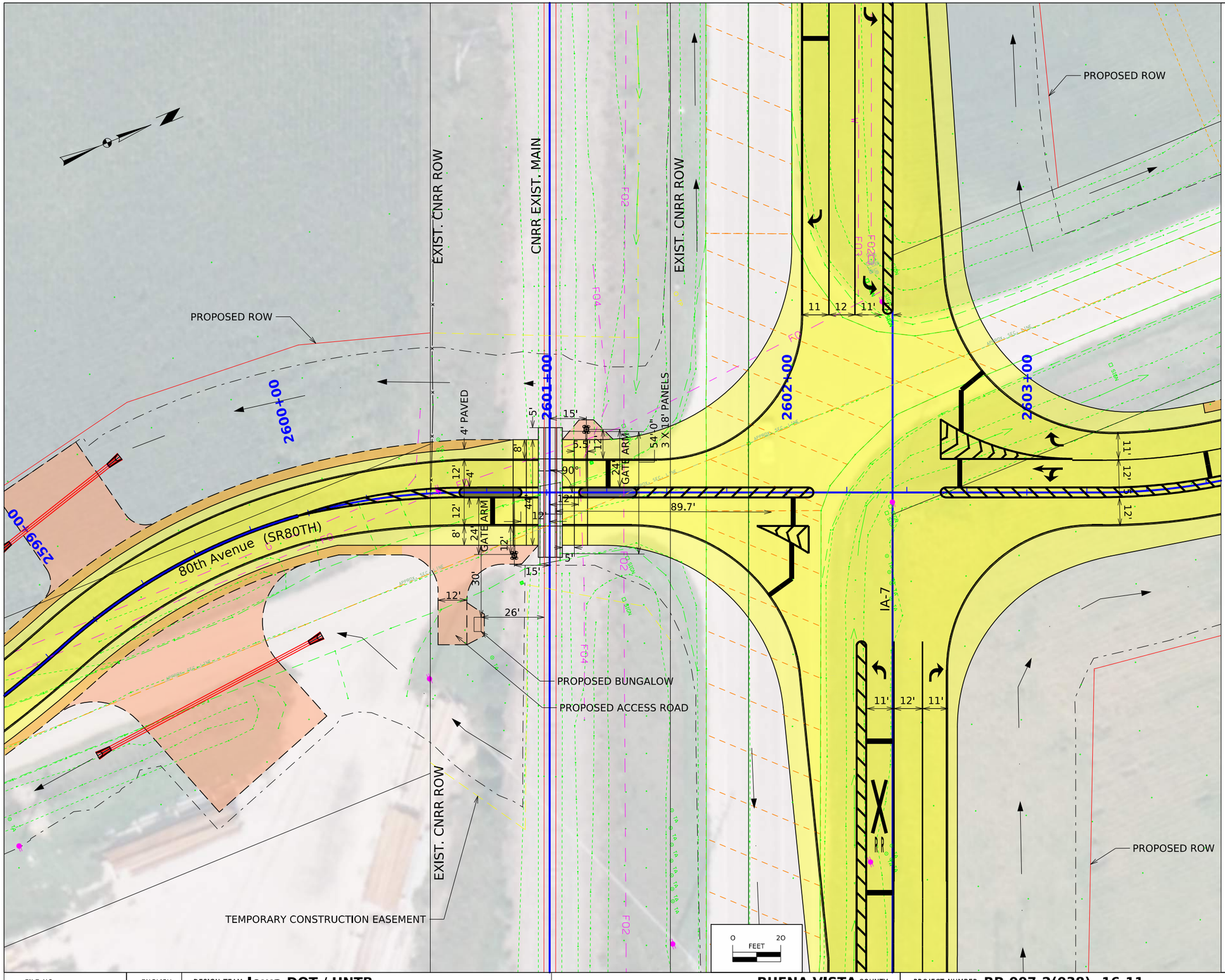
AAR/DOT#: 307522A, MP 432.21 CHEROKEE SUBDIVISION
STORM LAKE, IA (BUENA VISTA COUNTY)
IA 7 / 70TH AVE. INTERSECTION

CNRR TRACK PLAN AND PROFILE

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **U.3**

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CONSTRUCTION NOTES

1. ALL SIGNING, PAVEMENT MARKINGS, AND WARNING DEVICES SHALL BE CONSTRUCTED / INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STATE HIGHWAY STANDARDS.

2. FULL ROAD CLOSURE WITH DETOUR IS ANTICIPATED TO COMPLETE ROADWAY WORK.

CNRR

1. EXISTING AT-GRADE CROSSING SHALL BE CLOSED DURING CONSTRUCTION.

2. ACTIVE WARNING DEVICES AND BUNGALOW ARE IN STORAGE AT IOWA DOT MAINTENANCE FACILITY. CNRR TO COORDINATE WITH IOWA DOT STAFF TO OBTAIN EQUIPMENT PRIOR TO INSTALLATION.

3. CNRR TO PERFORM TRACK WORK AND INSTALL NEW OMEGA HEAVY (18' INTERVALS) PRECAST CONCRETE PANELS, 12-INCH LED MAST MOUNTED AUTOMATIC FLASHING LIGHTS WITH GATES, TWO ELECTRONIC BELLS, CONSTANT WARNING TIME CIRCUITRY, AND BUNGALOW.

4. CNRR SHALL REMOVE EXISTING CROSSING PANELS, ROADWAY SURFACE AND PASSIVE WARNING DEVICES TO BE DISPOSED BY IOWA DOT CONTRACTOR.

CONTRACTOR

1. CONSTRUCT PROPOSED ROADWAY ADJACENT TO PROPOSED CNRR WORK LIMITS.

2. CONSTRUCT PROPOSED ACCESS ROAD AND BUNGALOW PAD.

3. REMOVE EXISTING ROADWAY APPROACHES AND PERFORM NECESSARY GRADING ALONG CNRR ROW.

4. INSTALL SIGNING AND PAVEMENT MARKINGS FOR CROSSING PRIOR TO COMPLETION OF ROADWAY CONSTRUCTION.

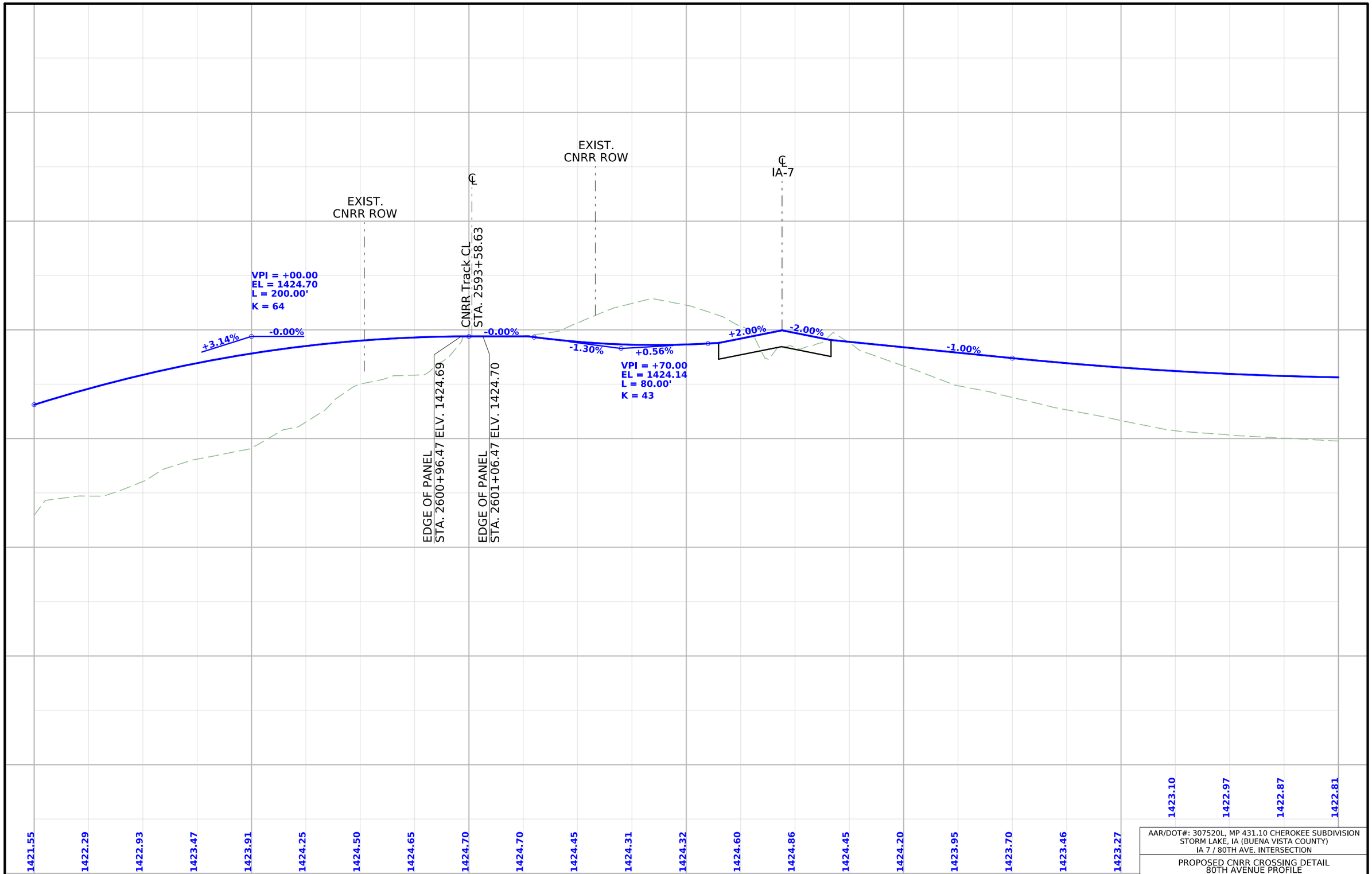
AAR/DOT#: 307520L, MP 431.10 CHEROKEE SUBDIVISION
STORM LAKE, IA (BUENA VISTA COUNTY)
IA 7 / 80TH AVE. INTERSECTION

PROPOSED CNRR CROSSING DETAIL
80TH AVENUE PLAN

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **U.4**

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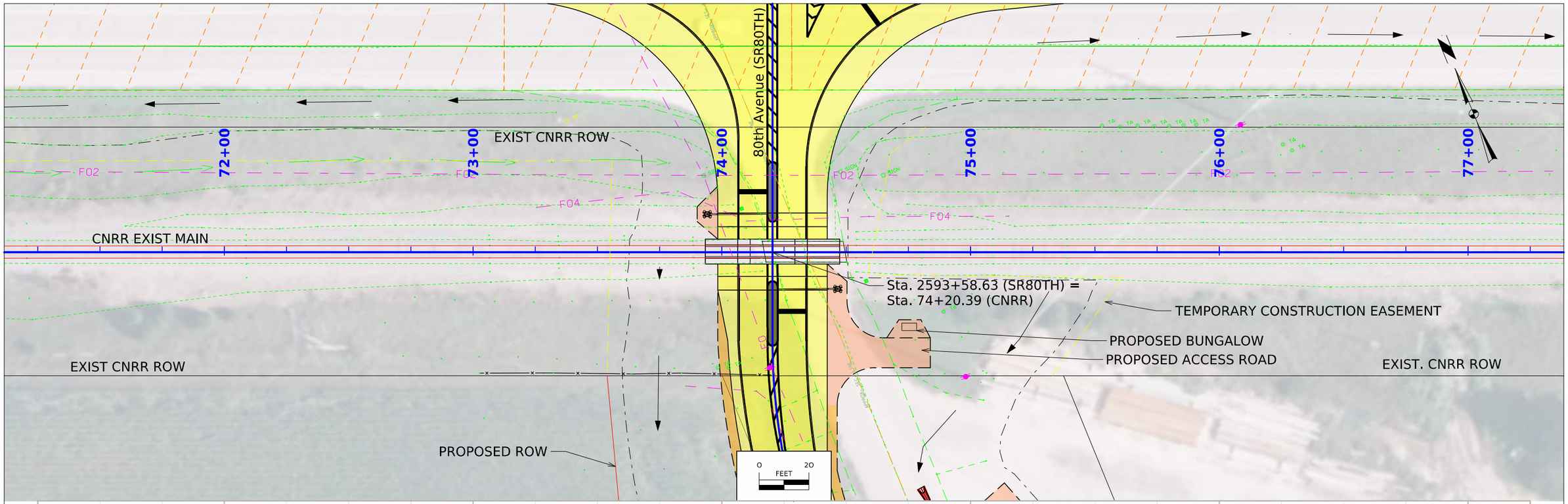


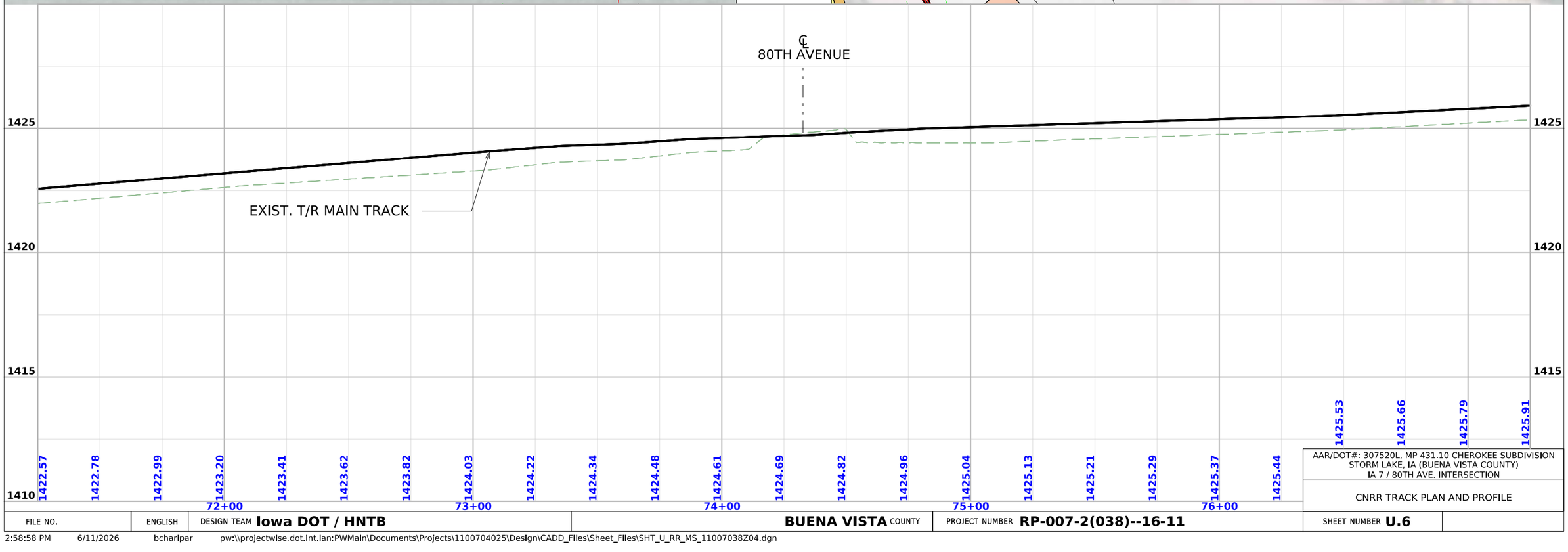
AAR/DOT#: 307520L, MP 431.10 CHEROKEE SUBDIVISION
STORM LAKE, IA (BUENA VISTA COUNTY)
IA 7 / 80TH AVE. INTERSECTION

PROPOSED CNRR CROSSING DETAIL
80TH AVENUE PROFILE

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **U.5**

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AAR/DOT#: 307520L, MP 431.10 CHEROKEE SUBDIVISION
STORM LAKE, IA (BUENA VISTA COUNTY)
IA 7 / 80TH AVE. INTERSECTION

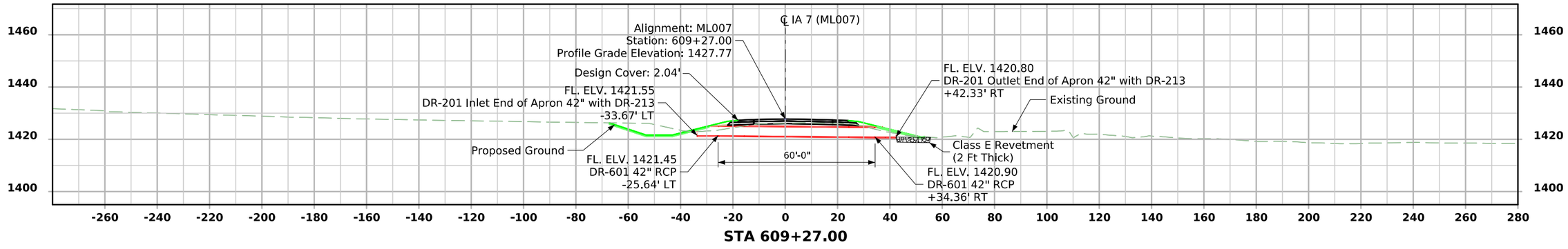
CNRR TRACK PLAN AND PROFILE

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **U.6**

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IA 7

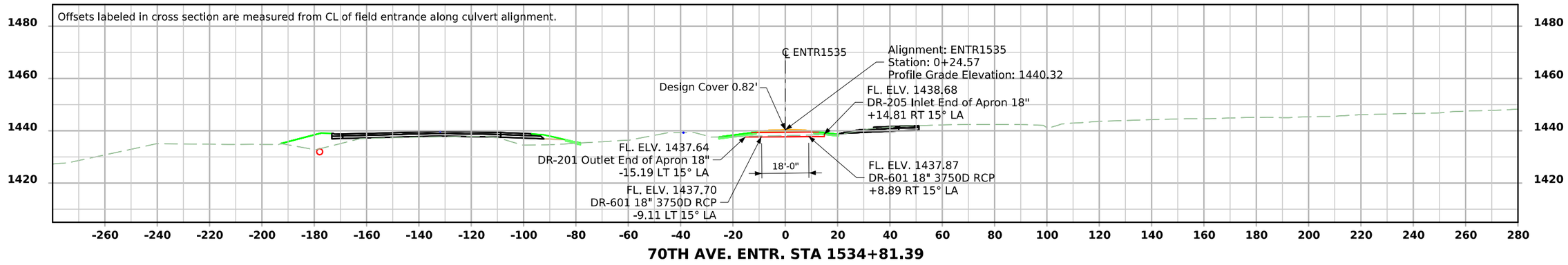


STA 609+27.00

FILE NO. **32773**	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **VW.1**

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70th Avenue

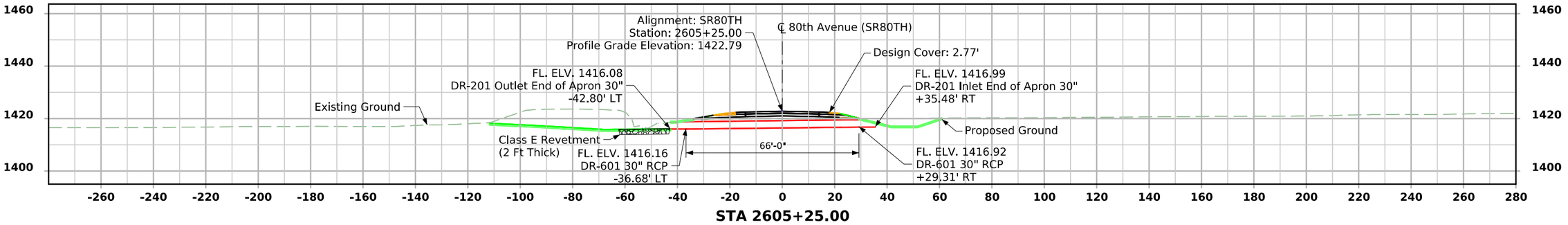


70TH AVE. ENTR. STA 1534+81.39

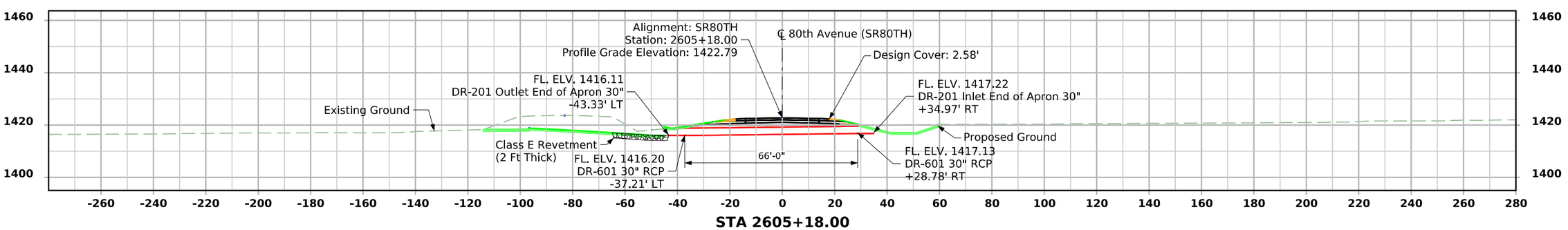
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80th Avenue



STA 2605+25.00



STA 2605+18.00

FILE NO. **32773**	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **VX.2**

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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
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Existing	
(0)	Existing Pavement
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
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 Substrata
(48)	Broken Weathered Substrata
(3)	Core Out Substrata
(203)	Existing Pavement Substrata
(6)	Loam Substrata
(80)	Rock Substrata
(4)	Select Sand Substrata
(3)	Shale Substrata
(10)	Topsoil Substrata
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

NOTES:

NOTES:

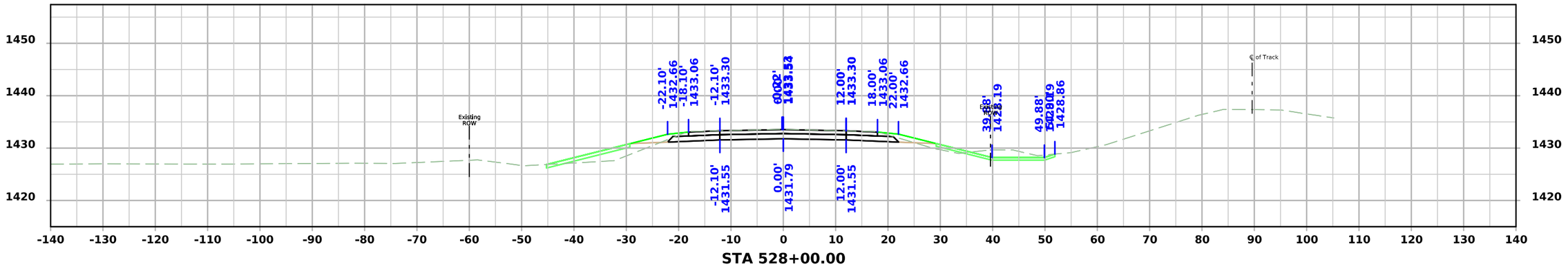
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W & X)

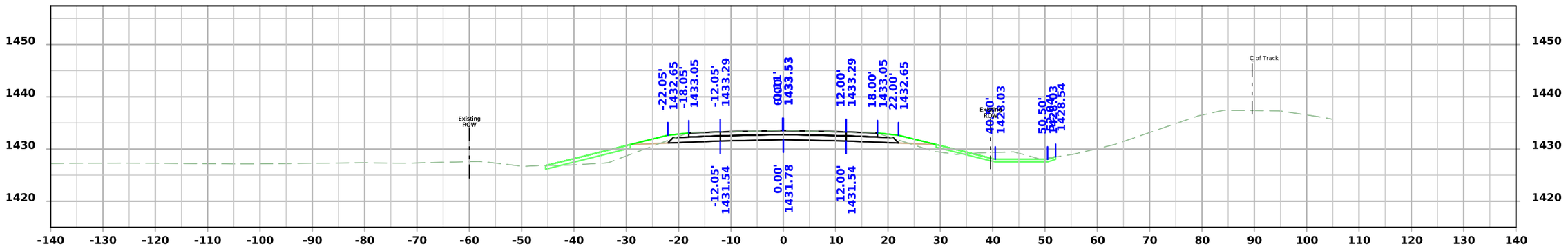
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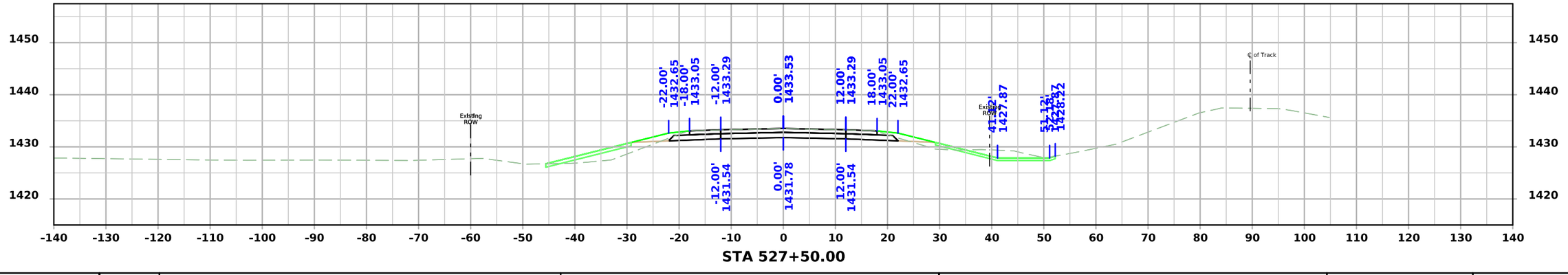
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STA 527+75.00

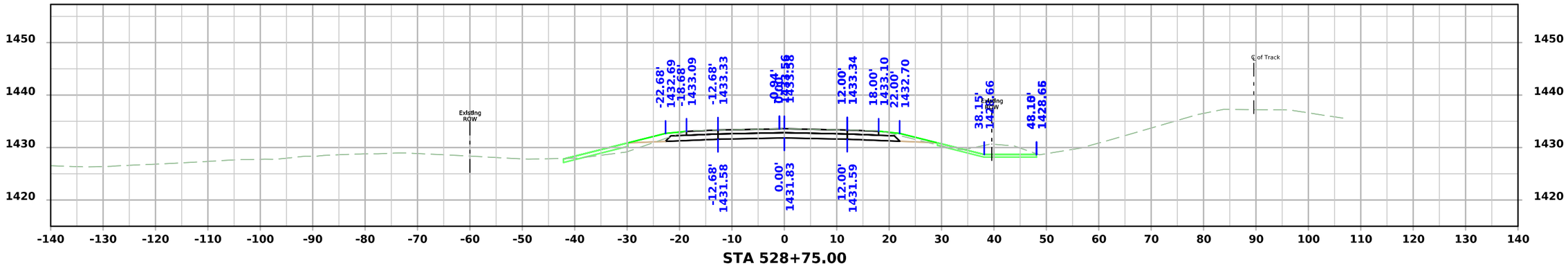


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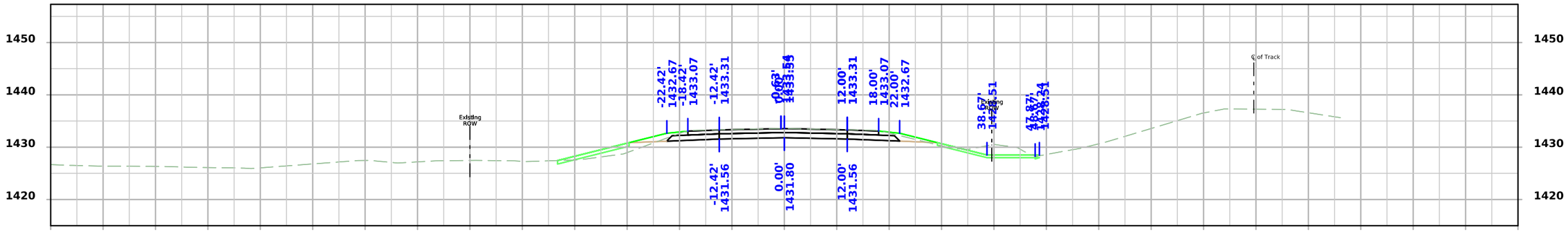
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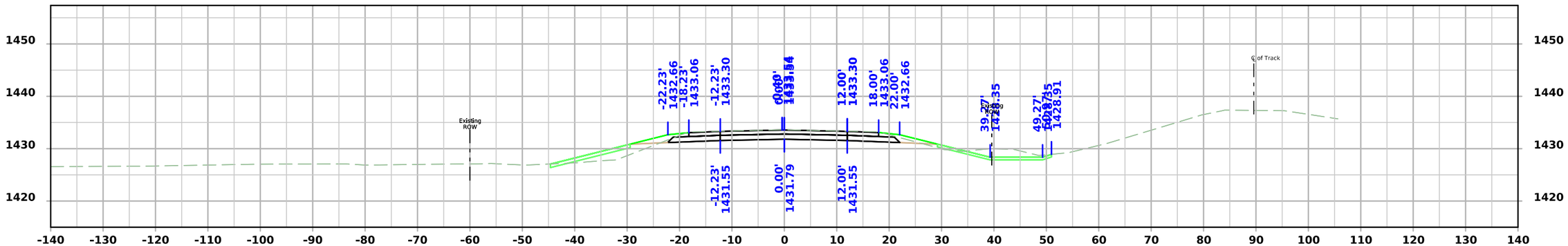
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STA 528+50.00

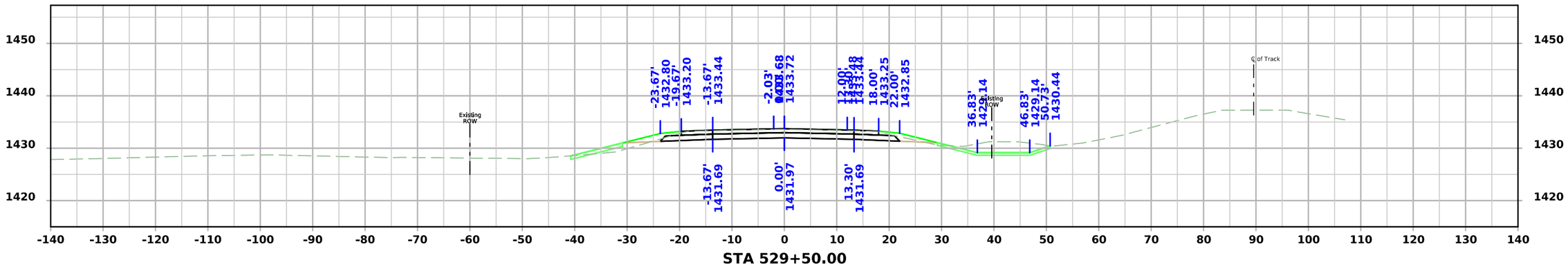


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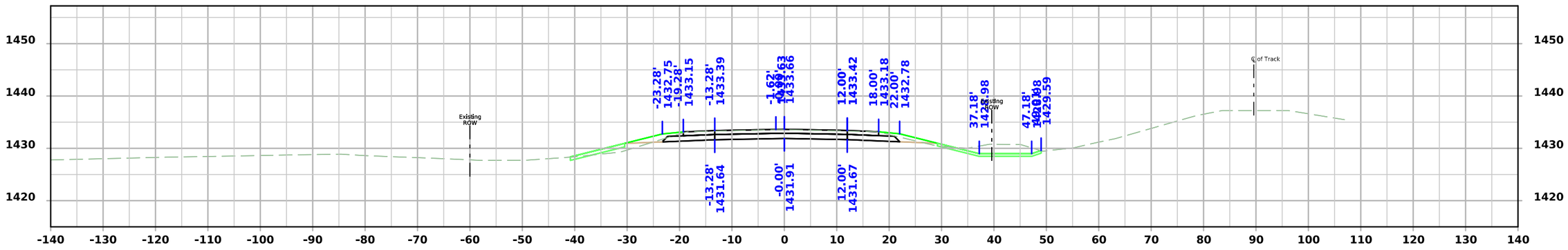
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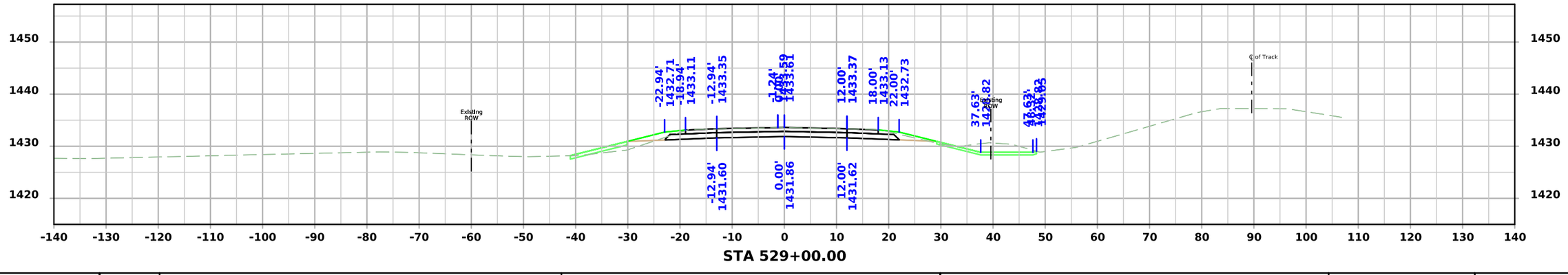
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STA 529+25.00

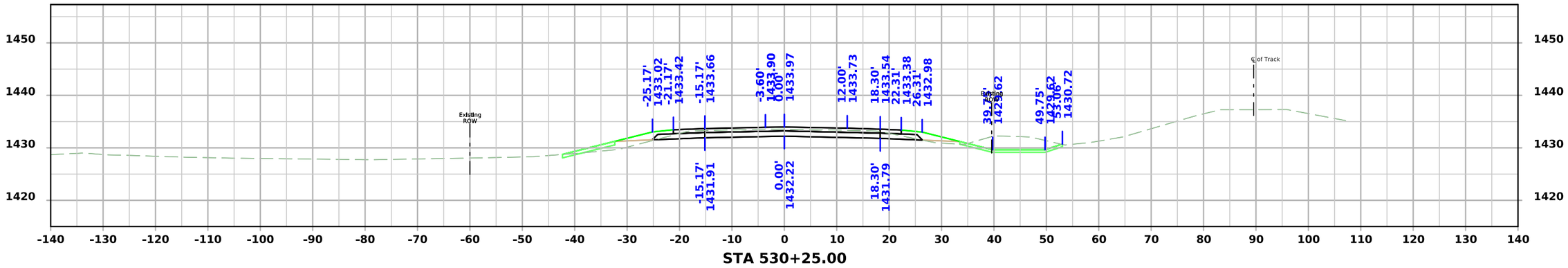


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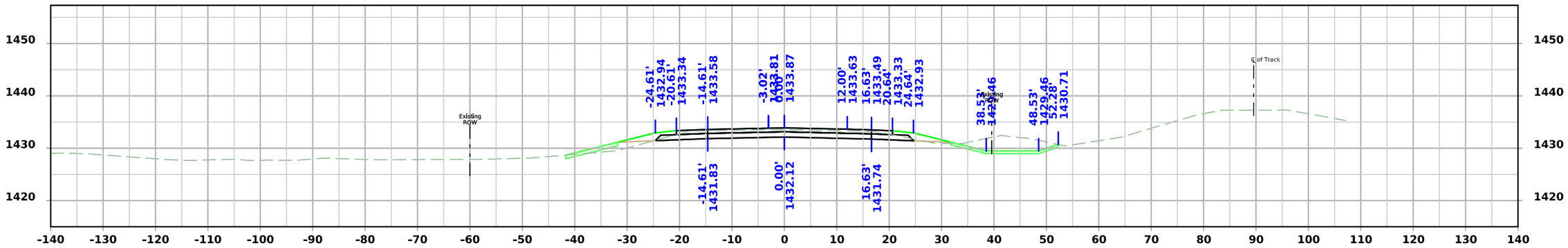
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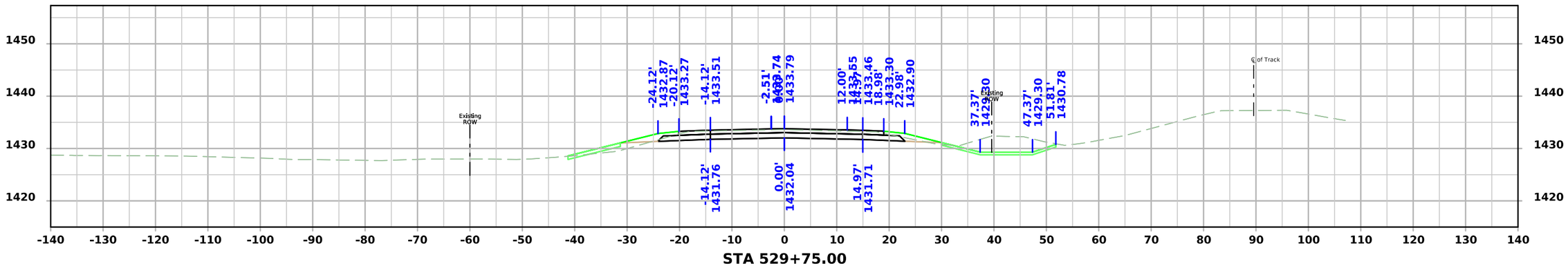
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STA 530+25.00



STA 530+00.00

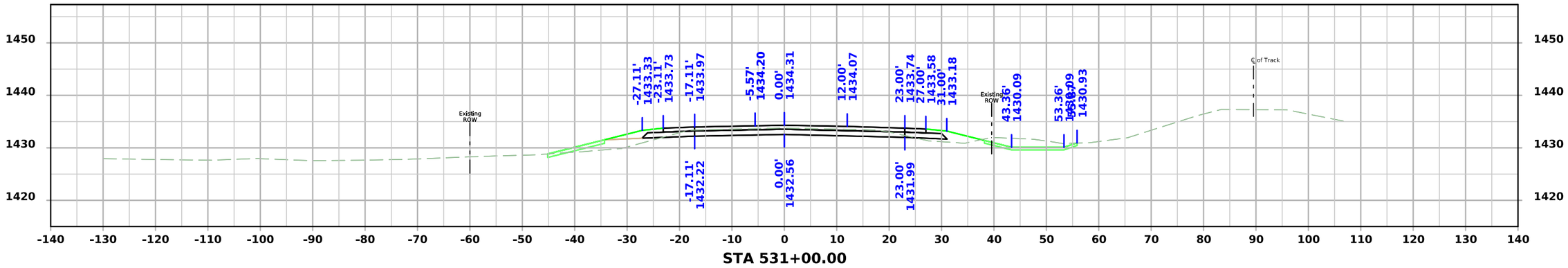


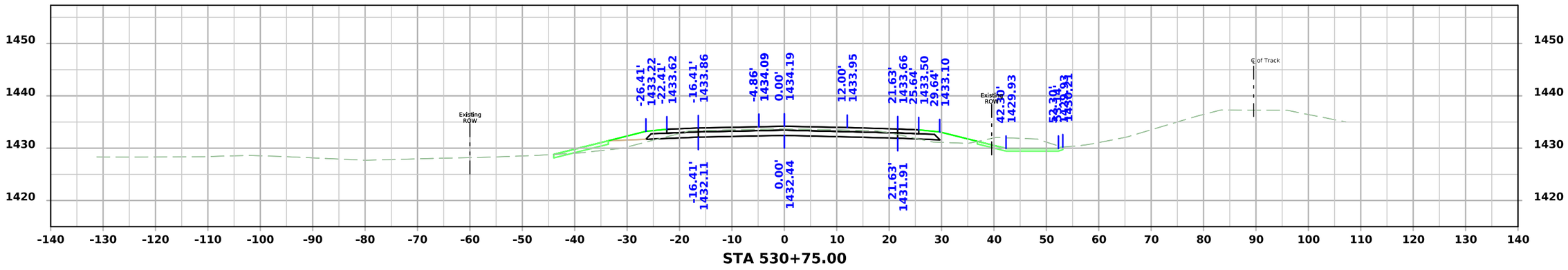
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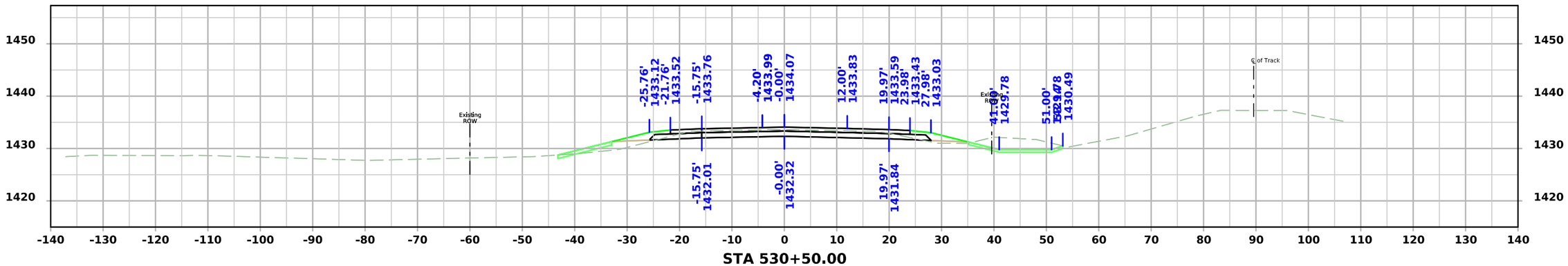
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IA 7



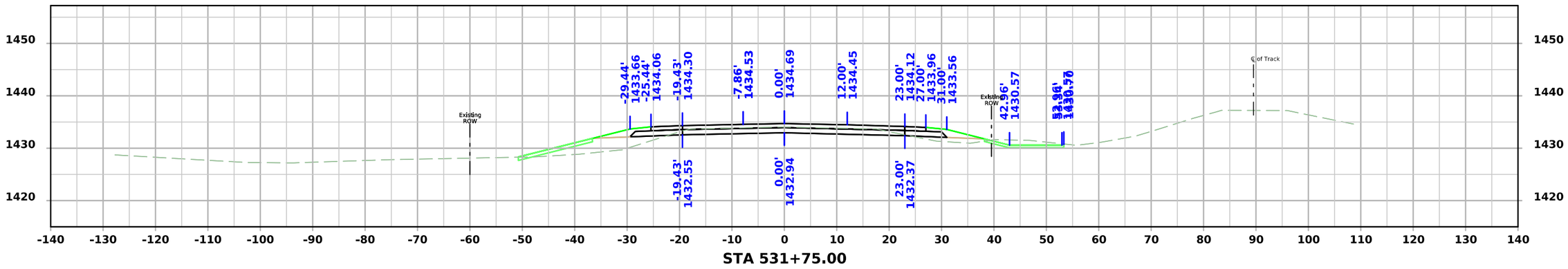




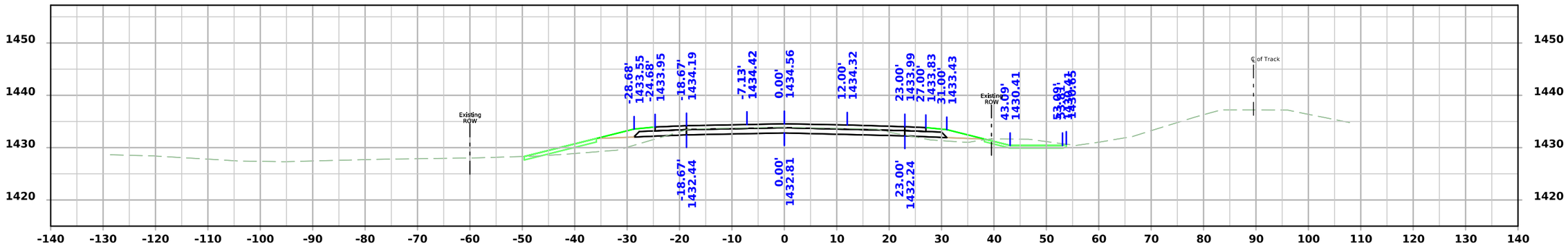
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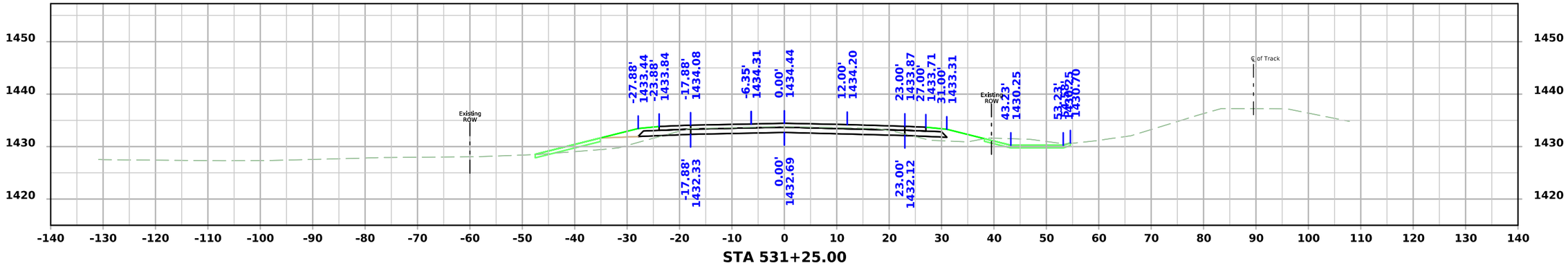
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STA 531+50.00

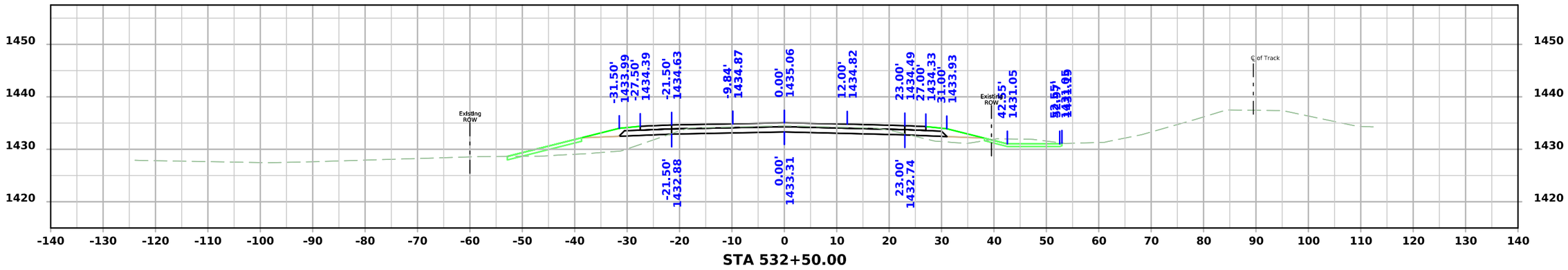


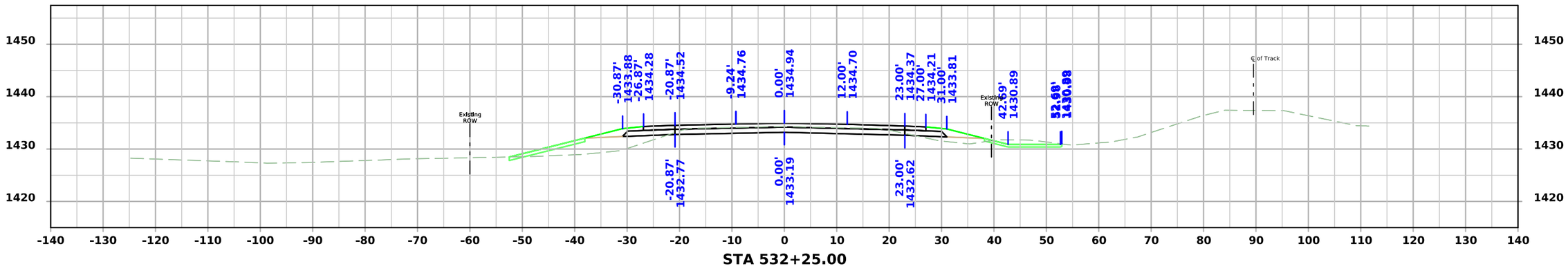
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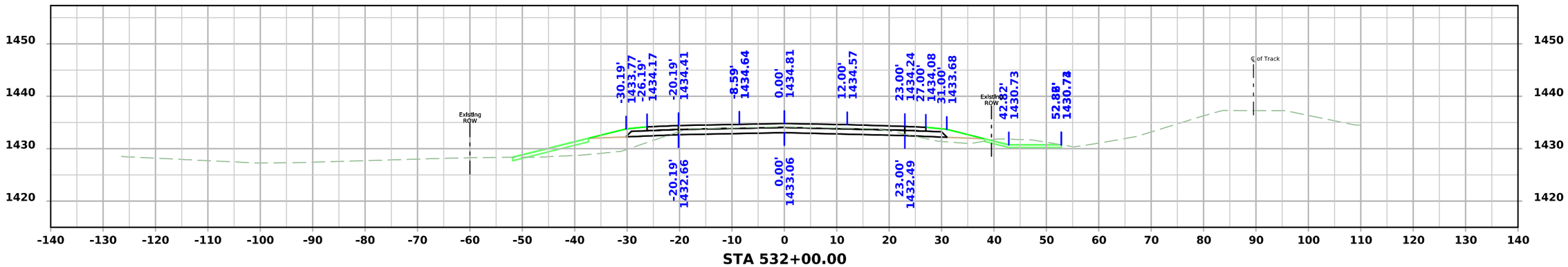
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IA 7



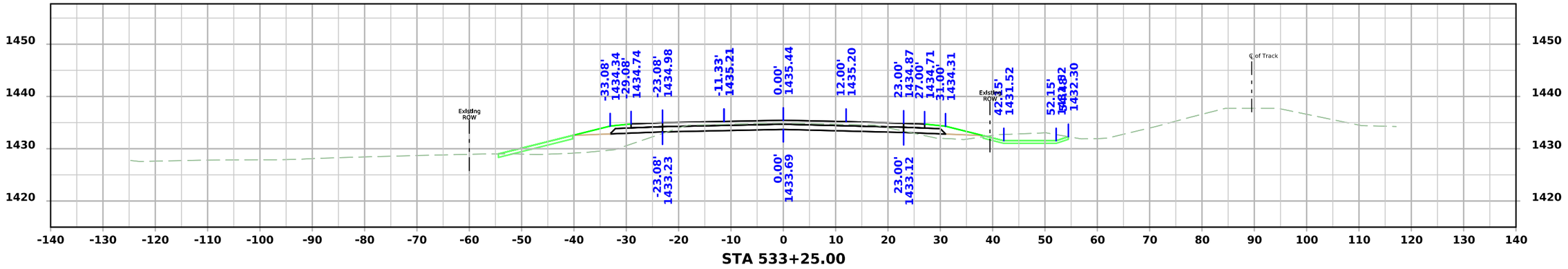




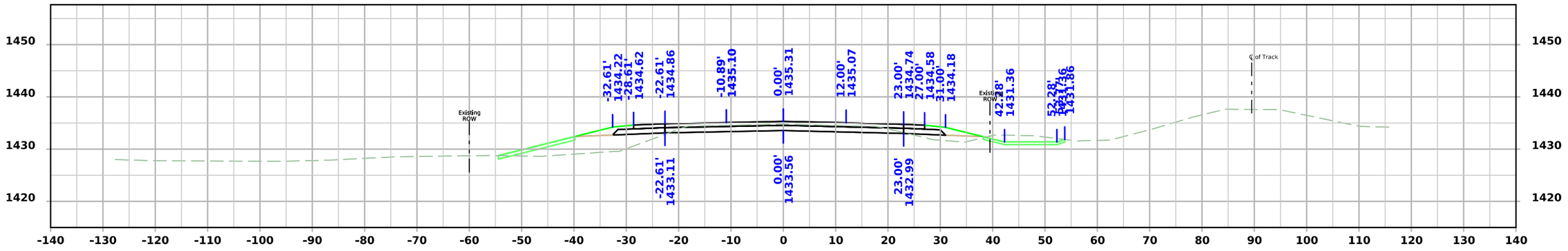
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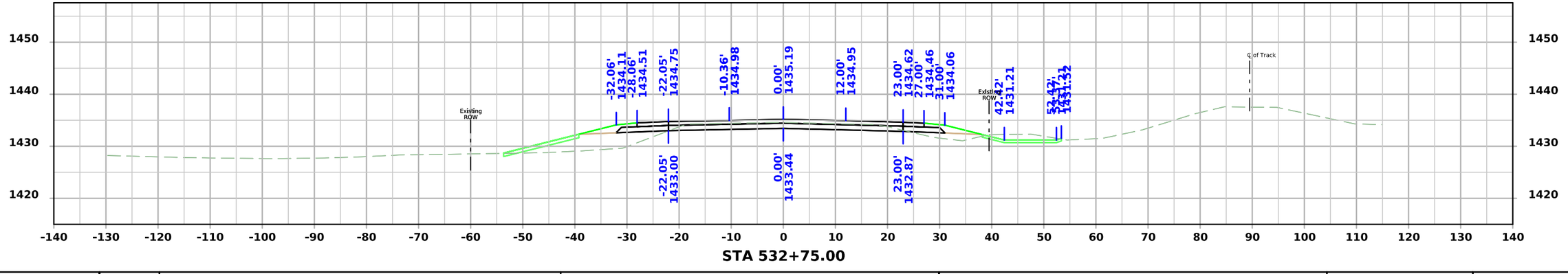
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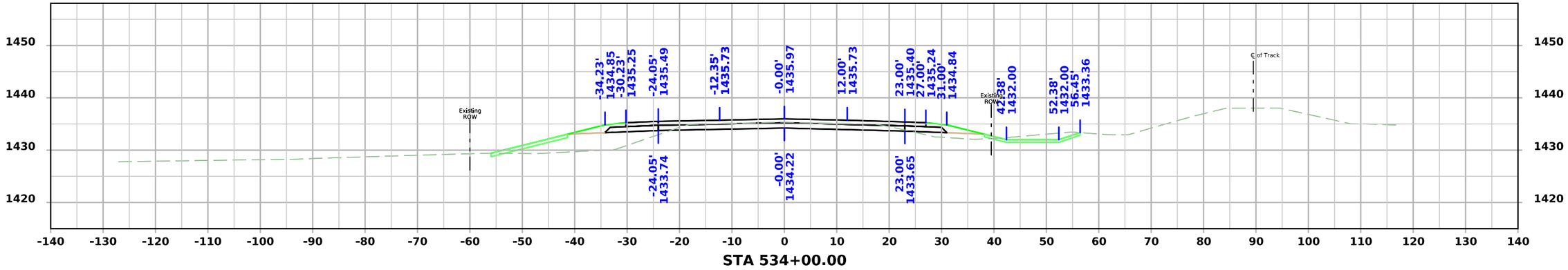


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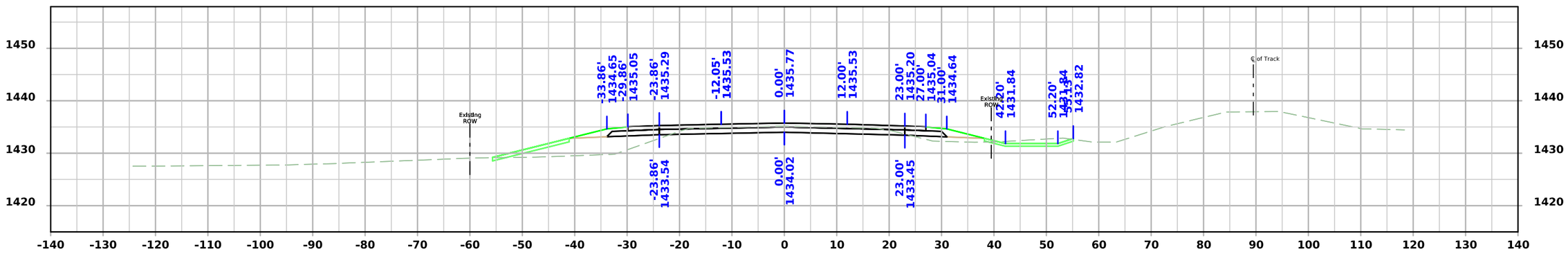
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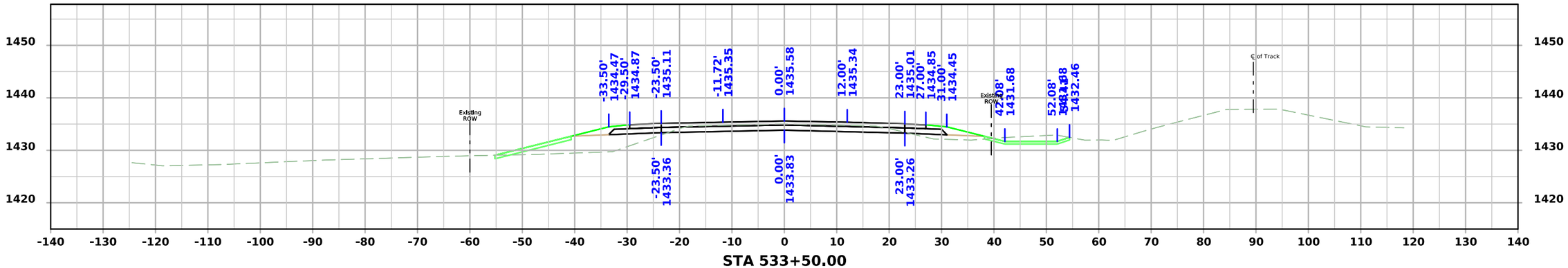
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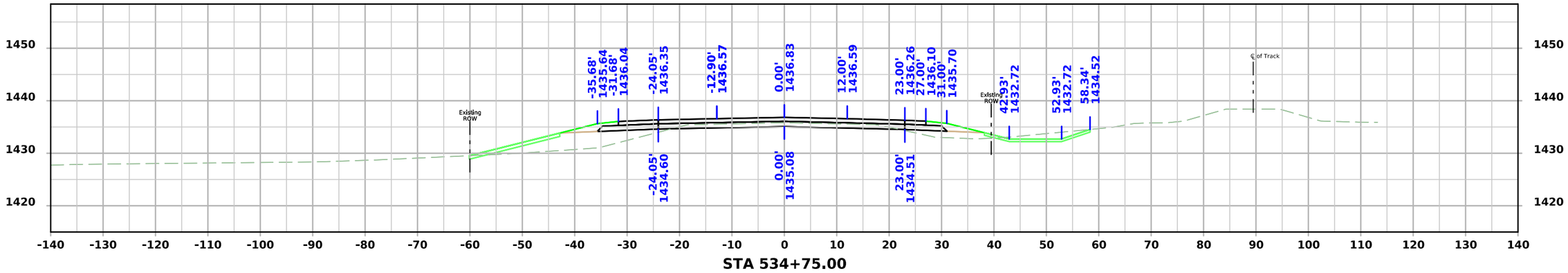


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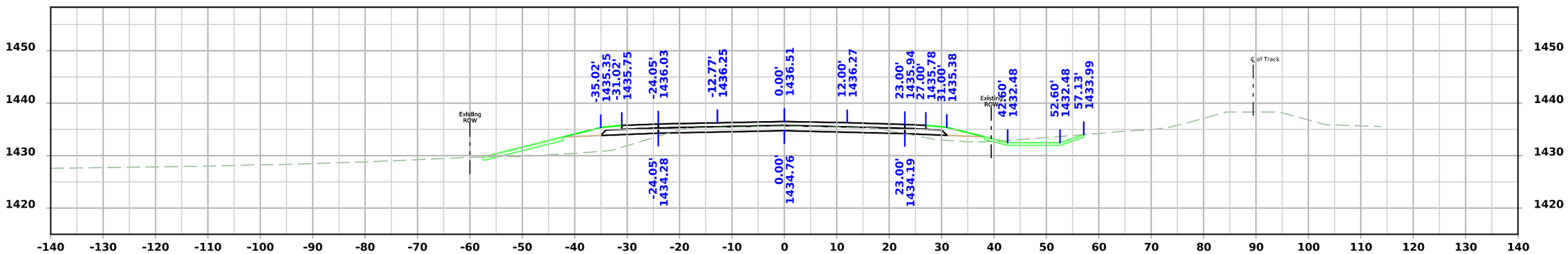
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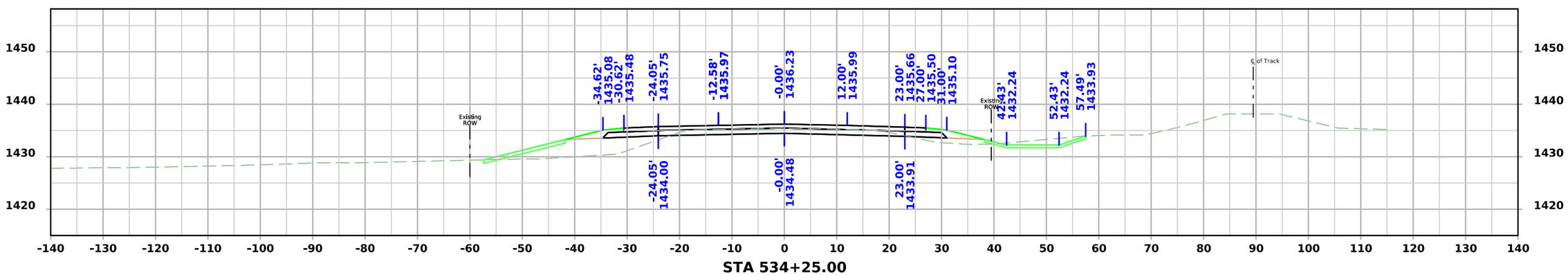
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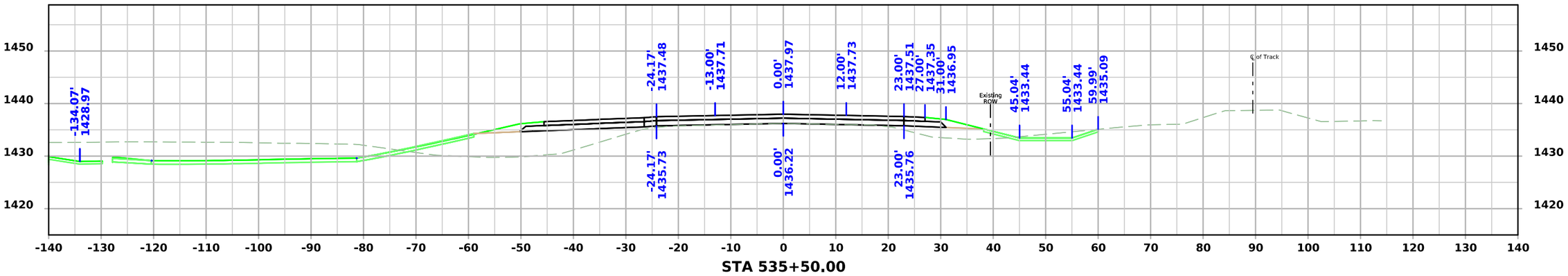


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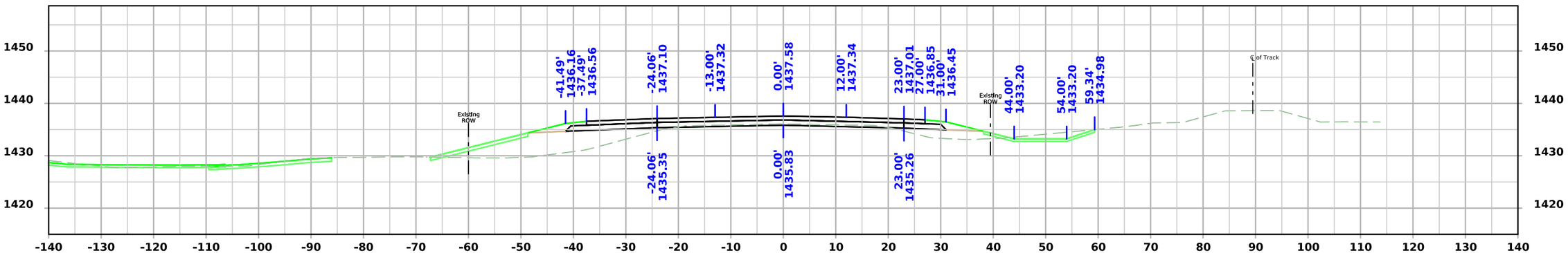
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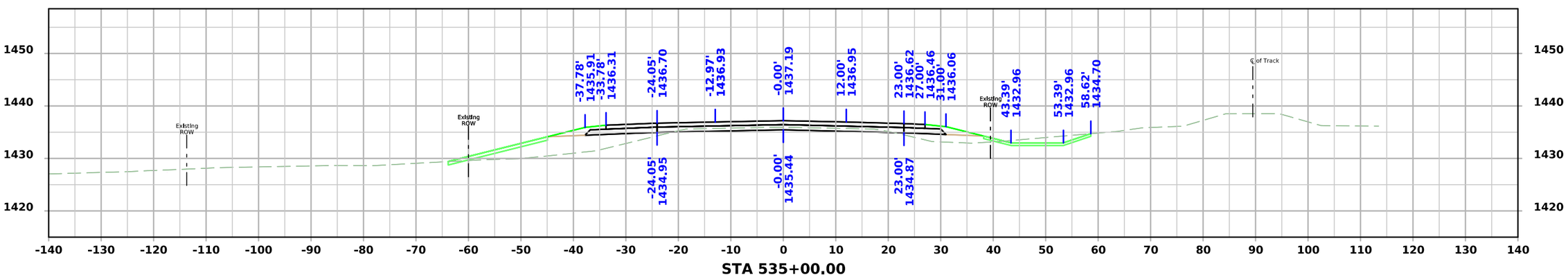
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STA 535+50.00



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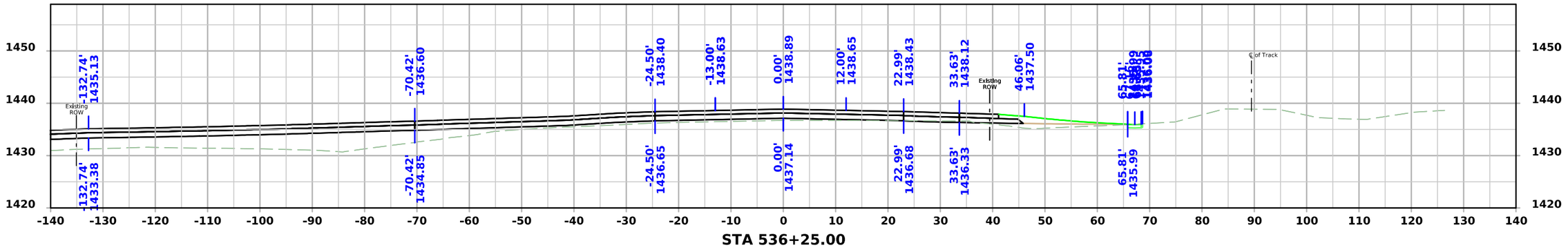


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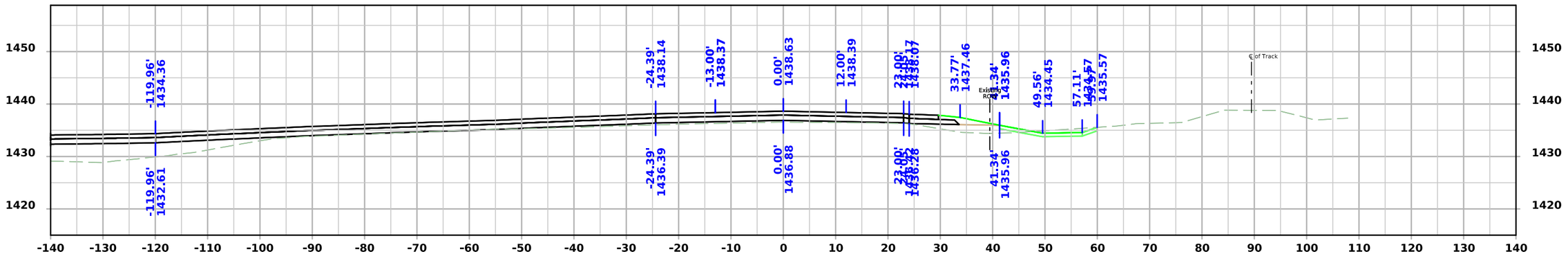
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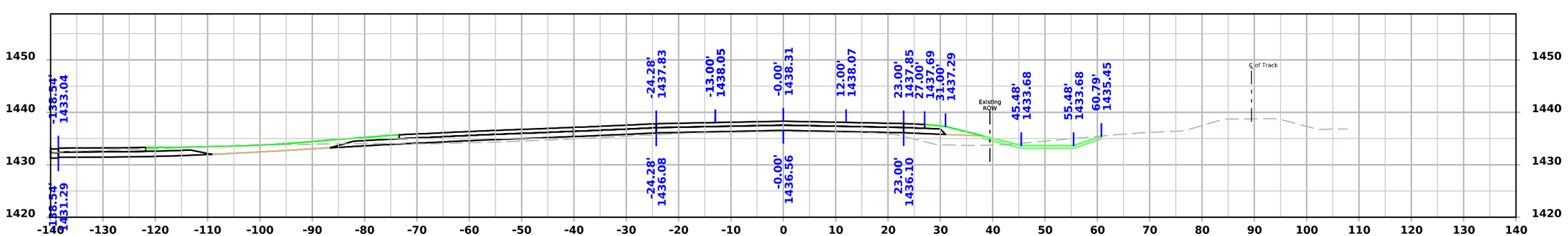
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STA 536+00.00

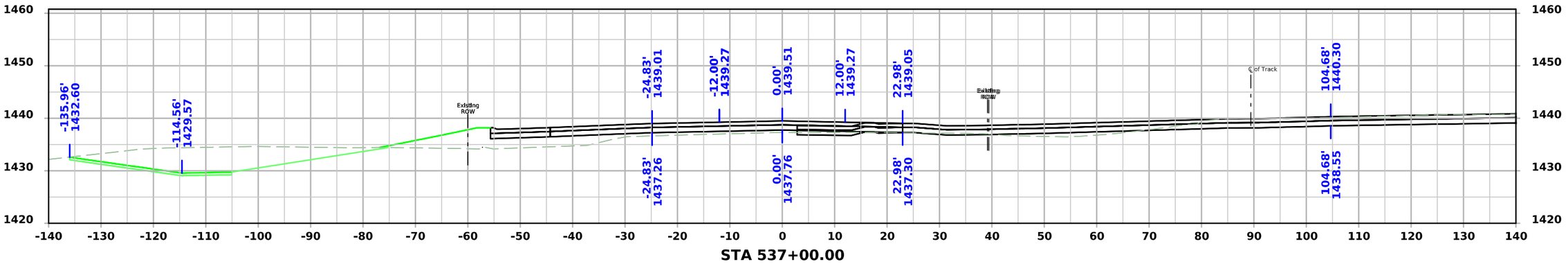


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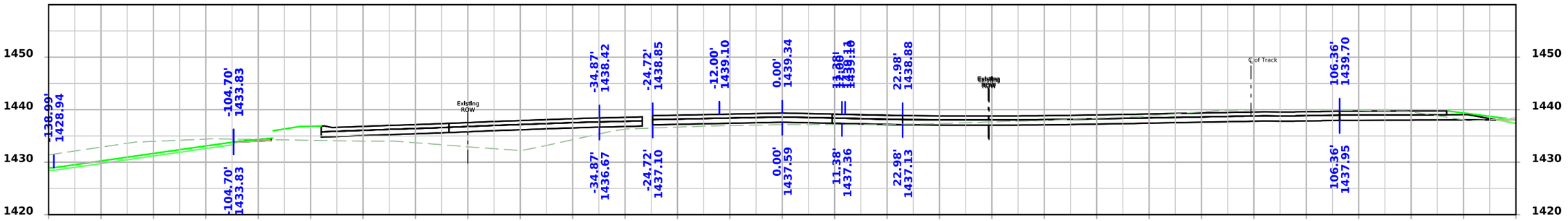
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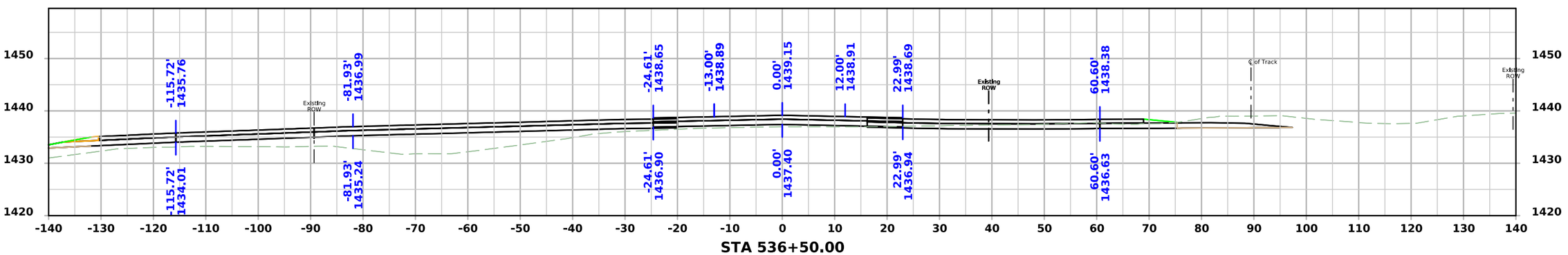
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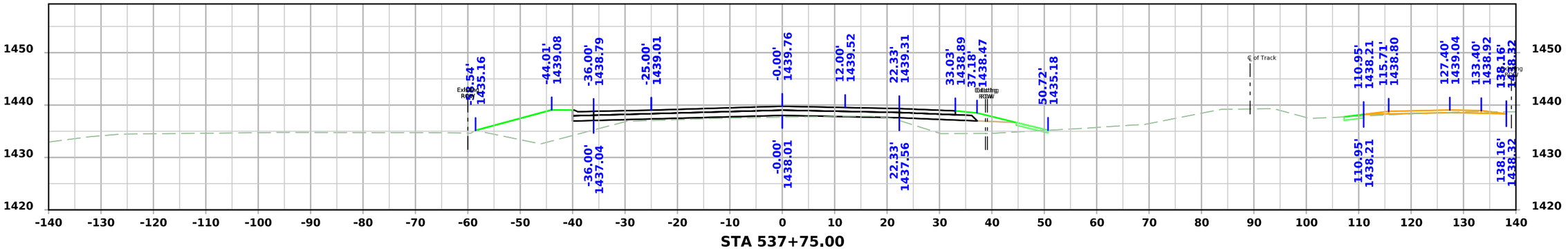


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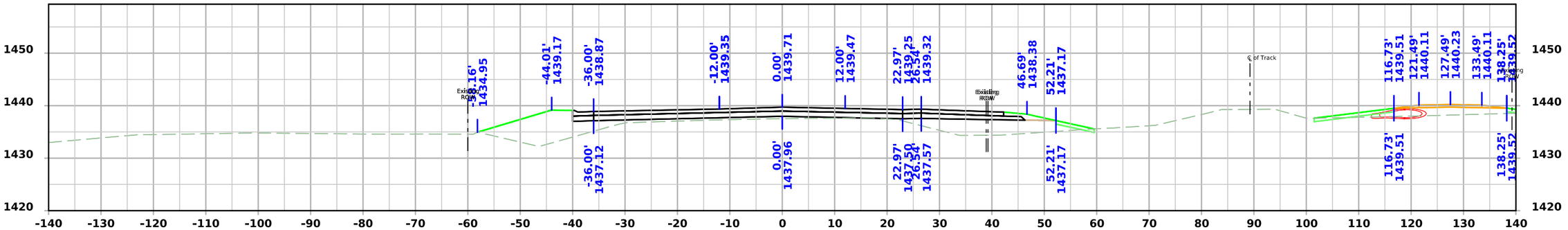
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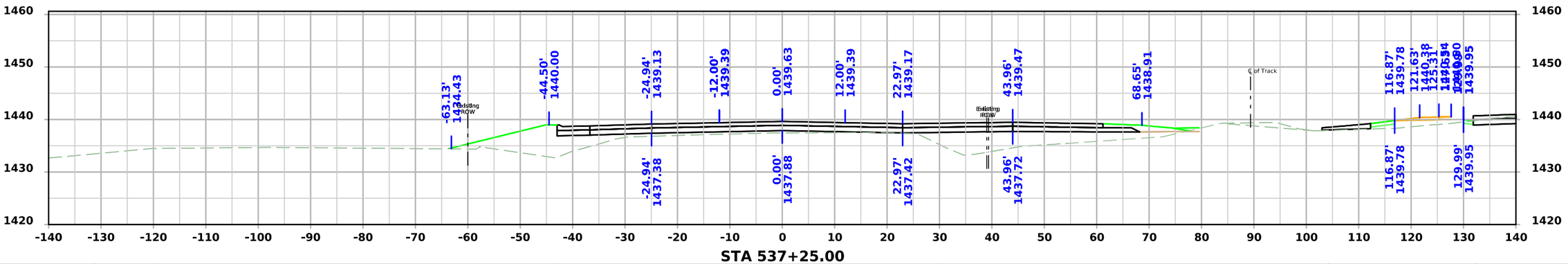
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STA 537+50.00

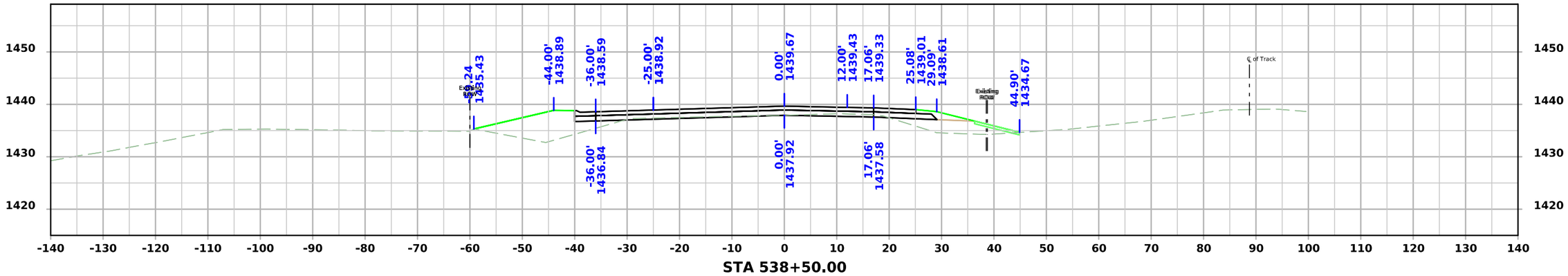


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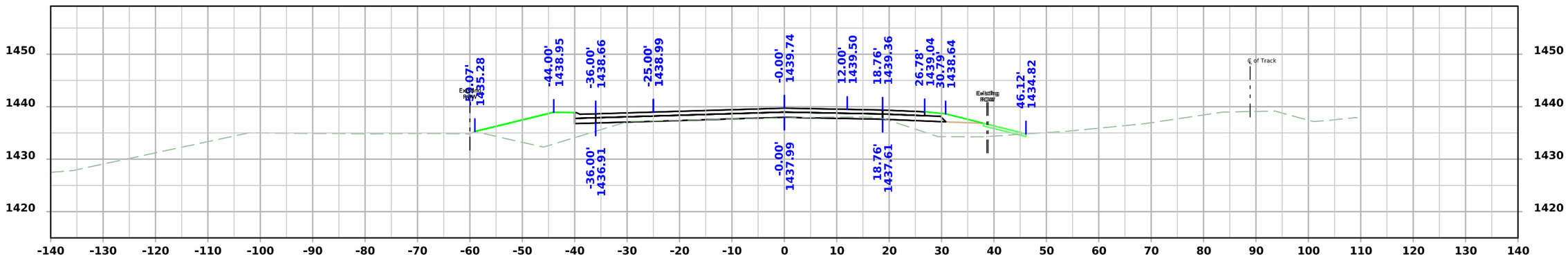
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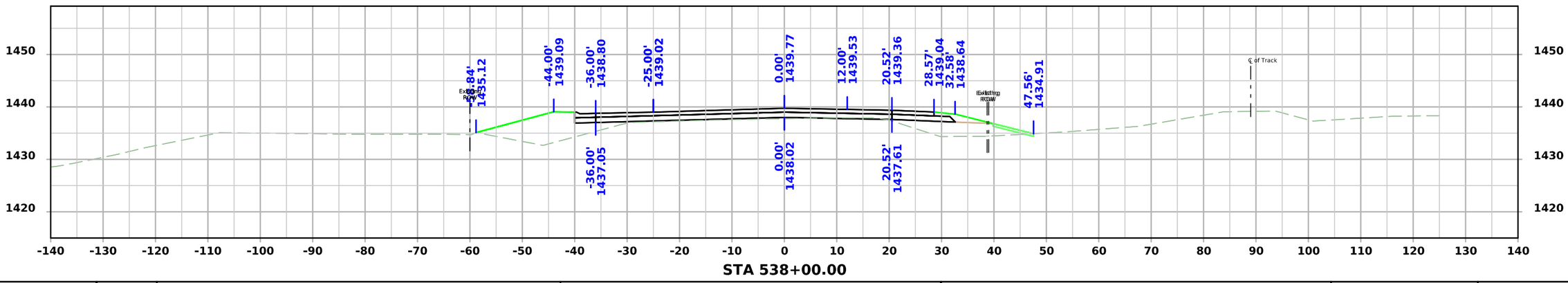
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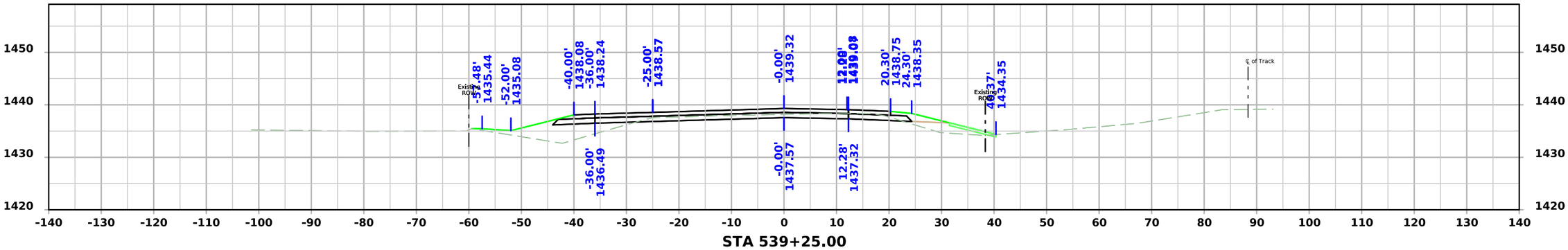


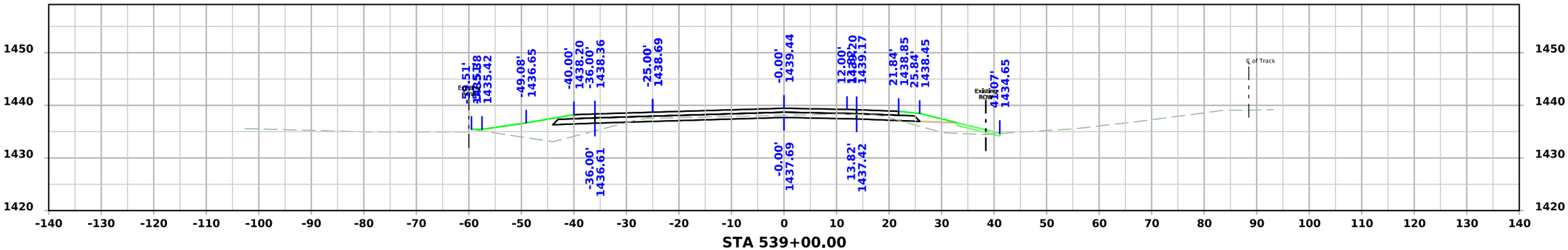
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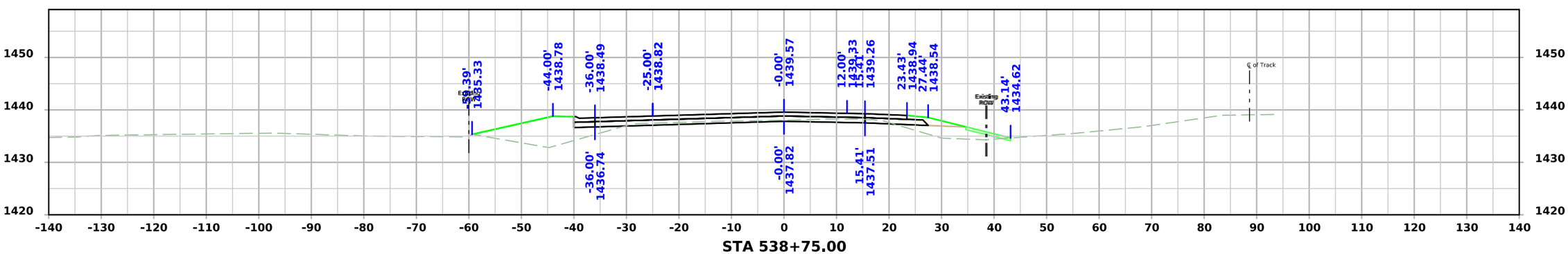
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IA 7



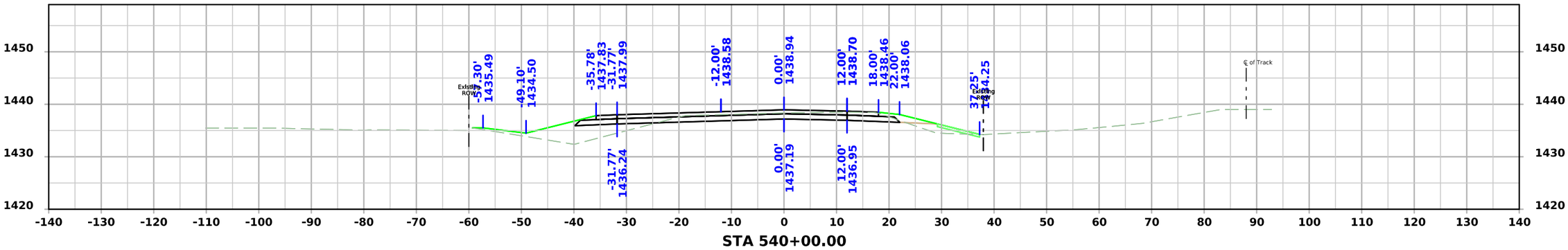


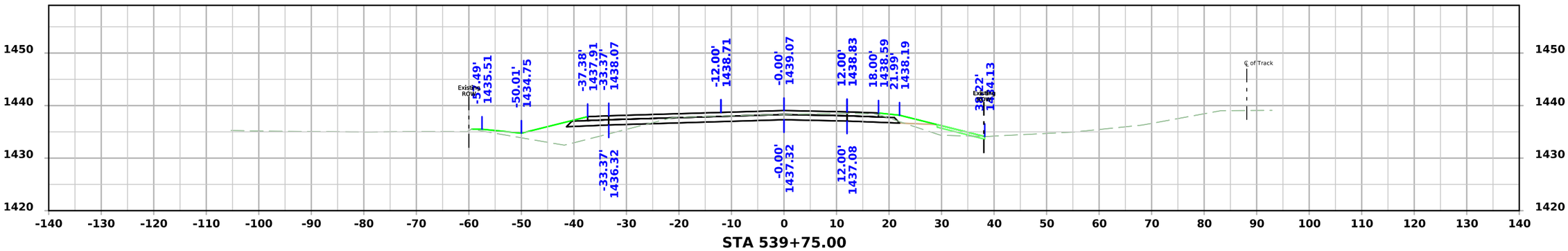


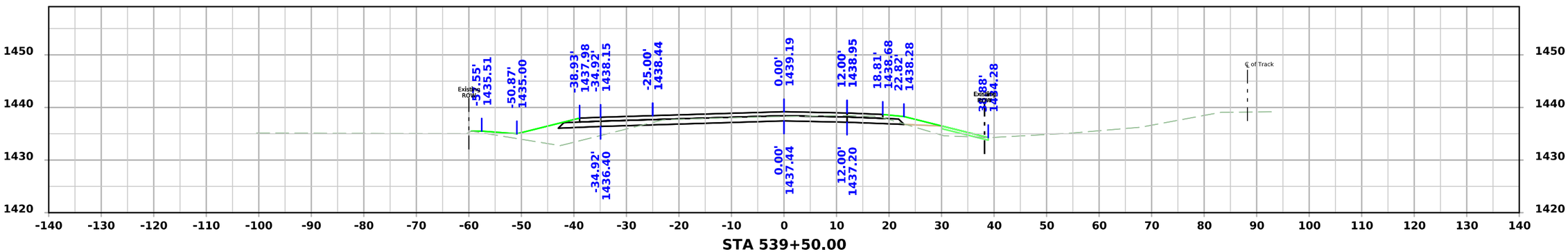
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.17**

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IA 7



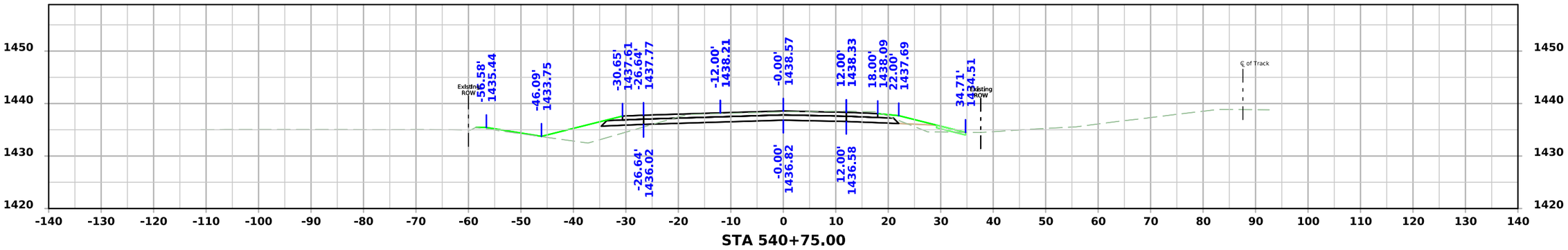




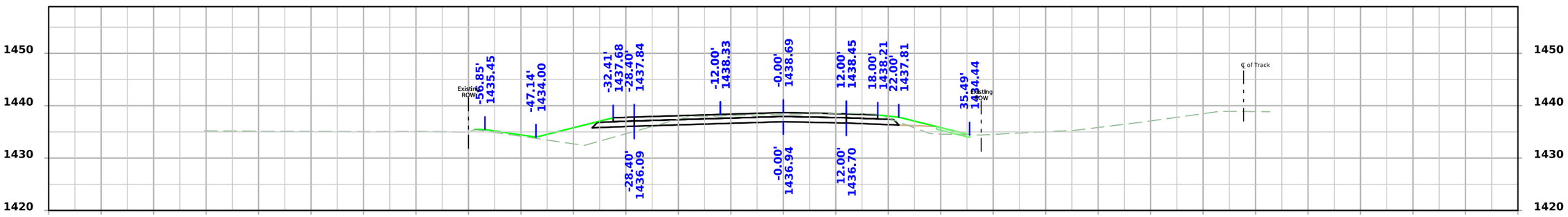
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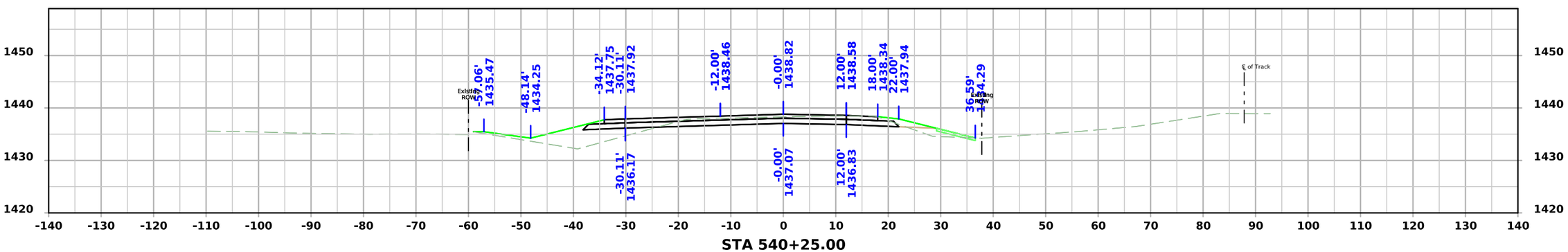
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STA 540+50.00

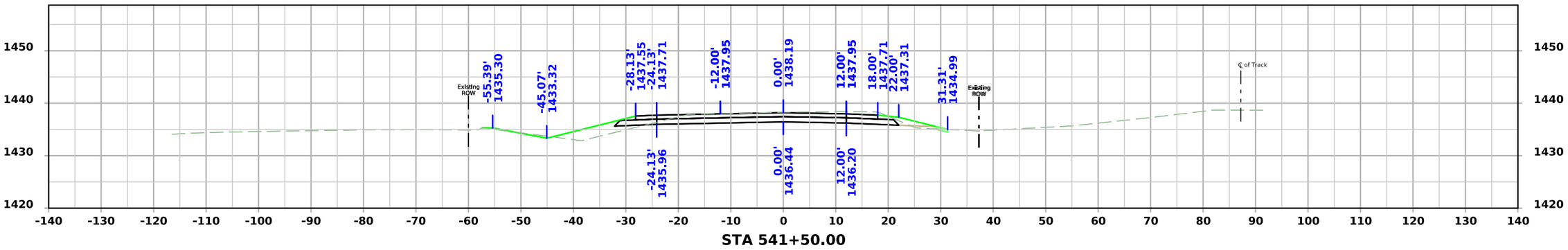


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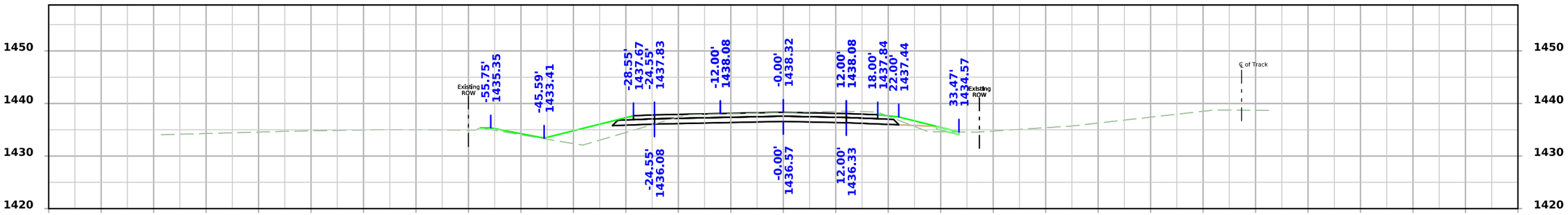
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.19**

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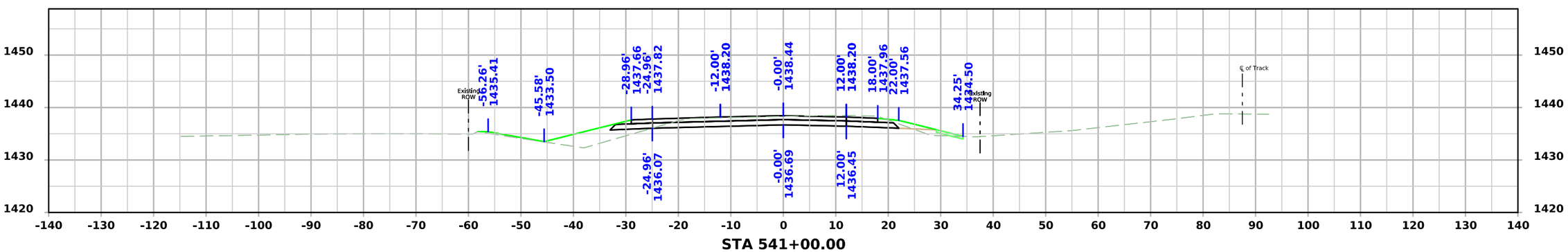
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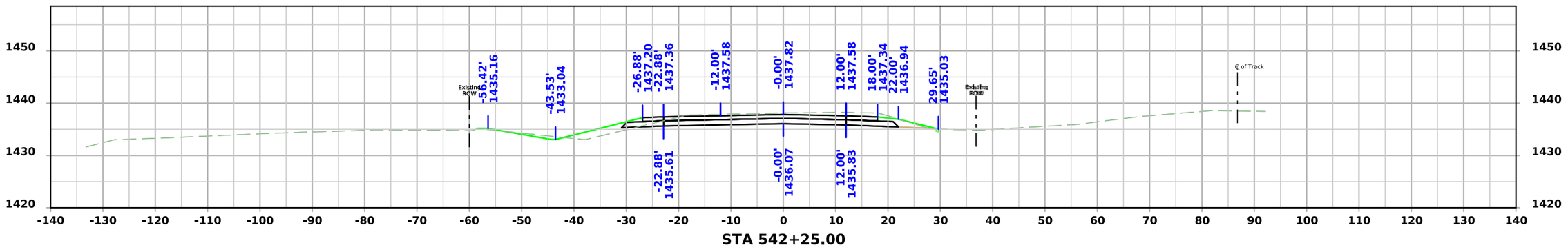


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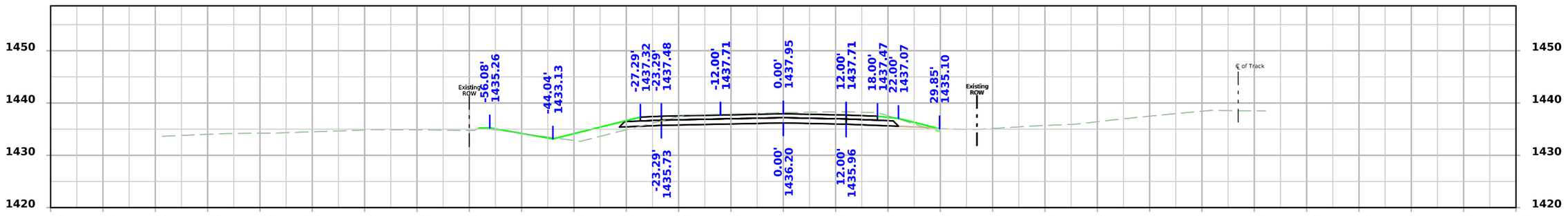
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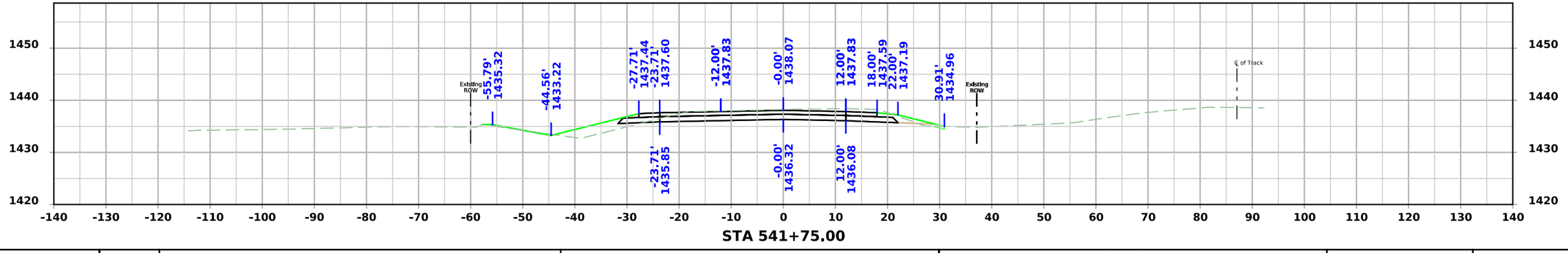
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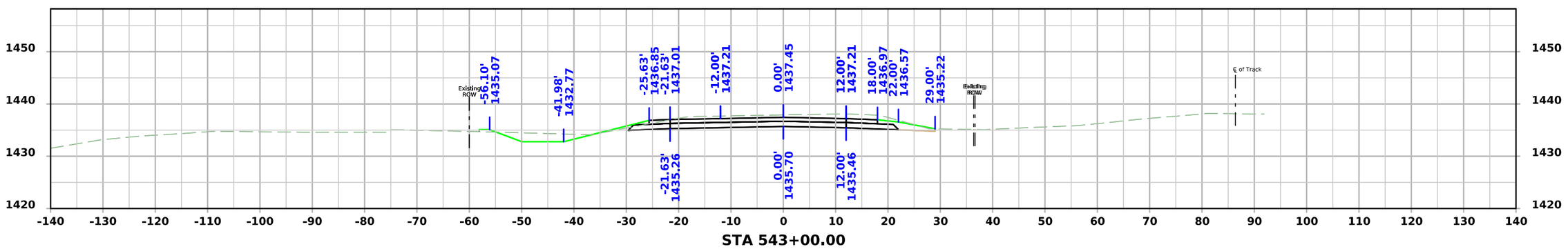


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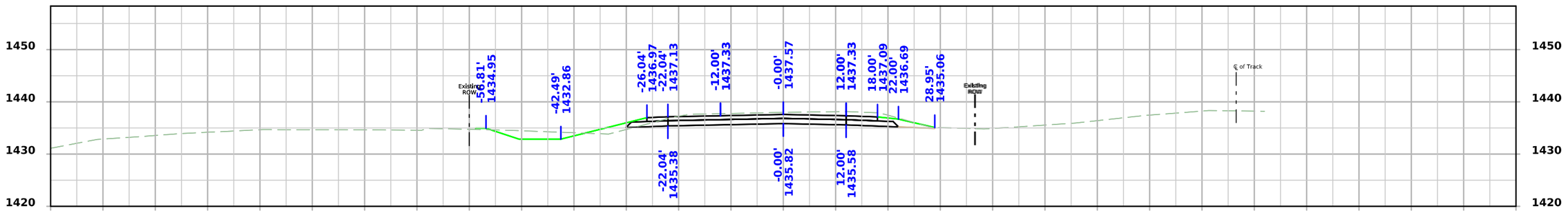
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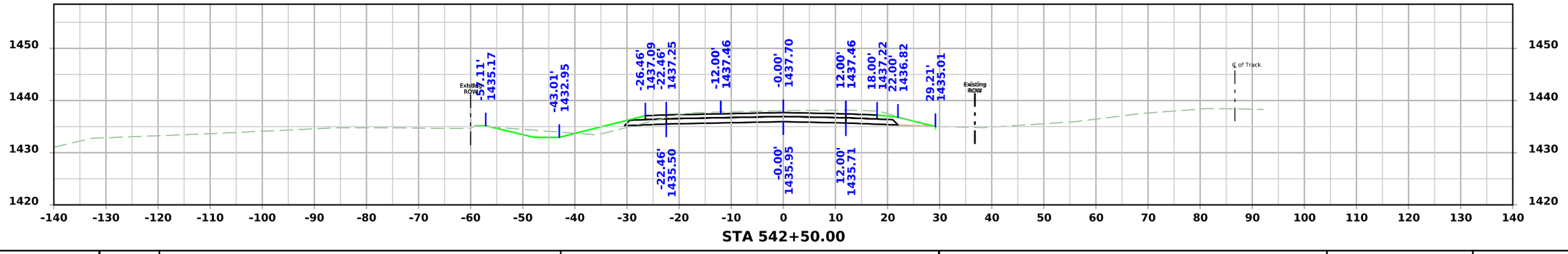
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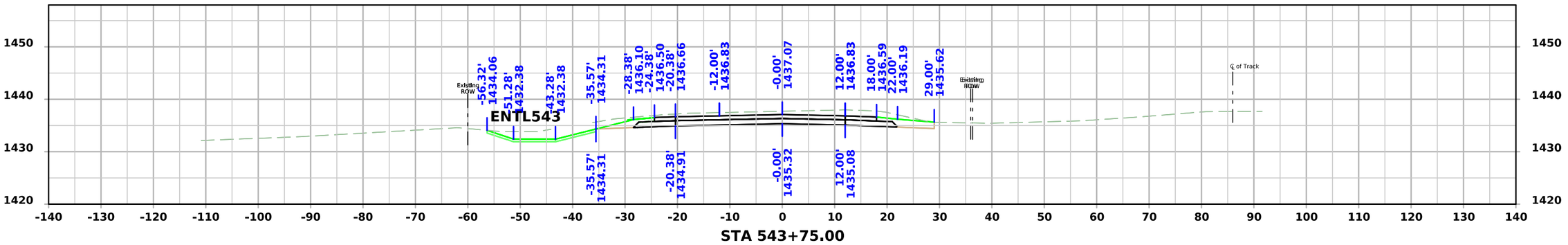


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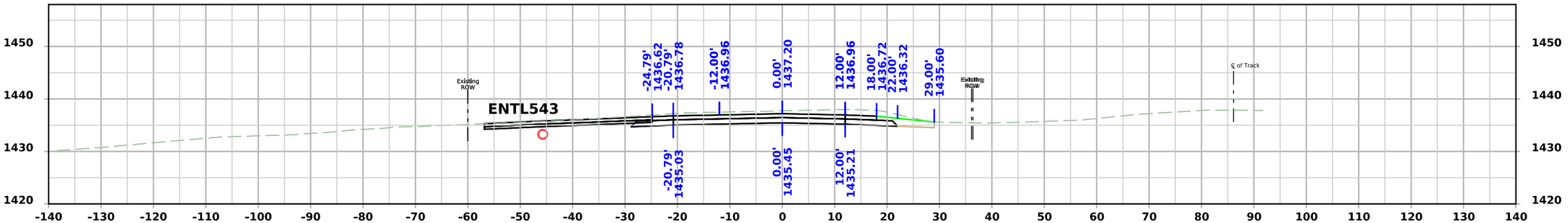
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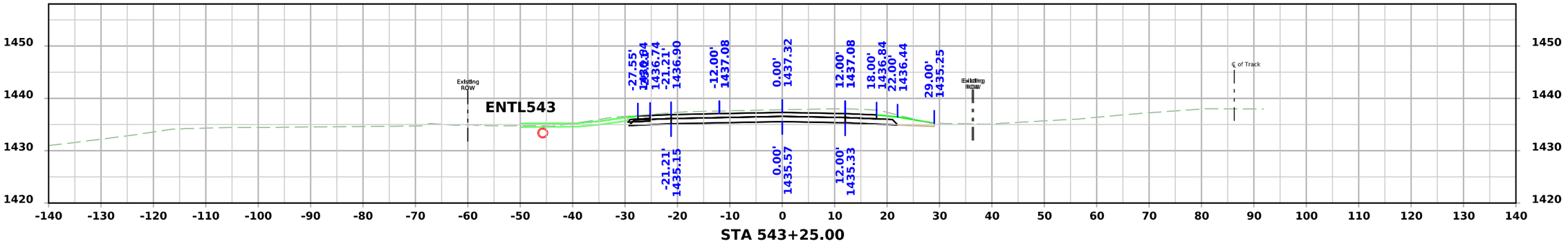
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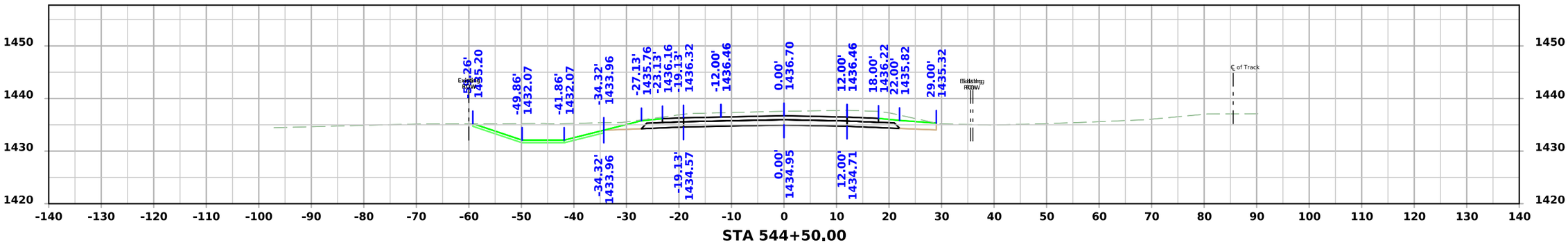


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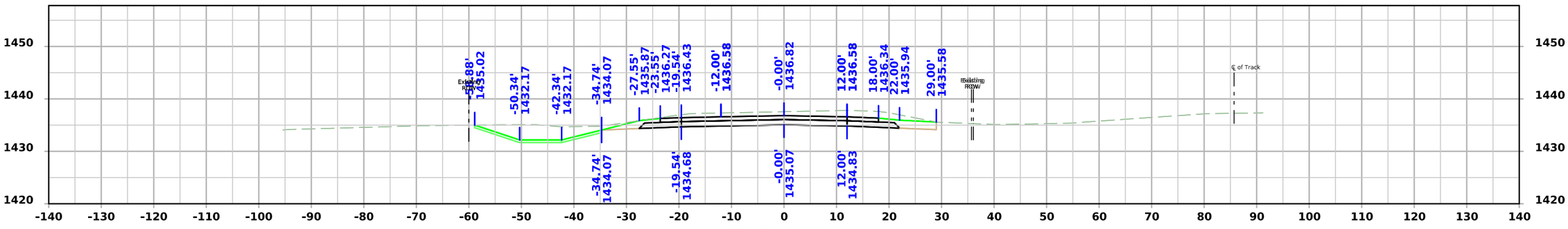
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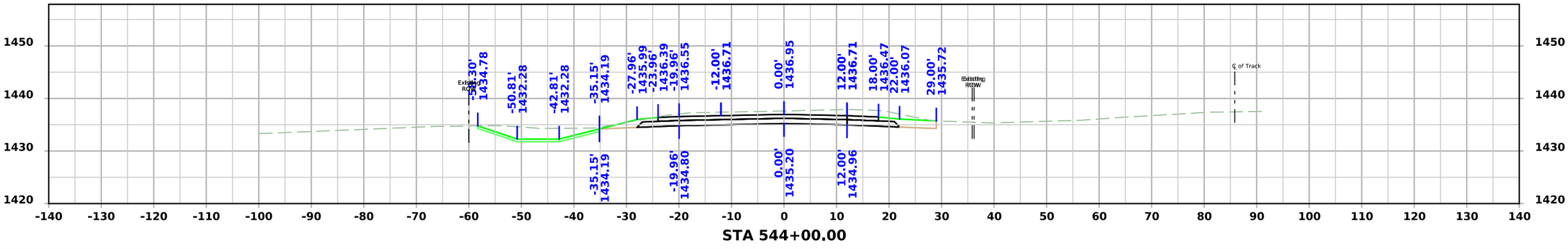
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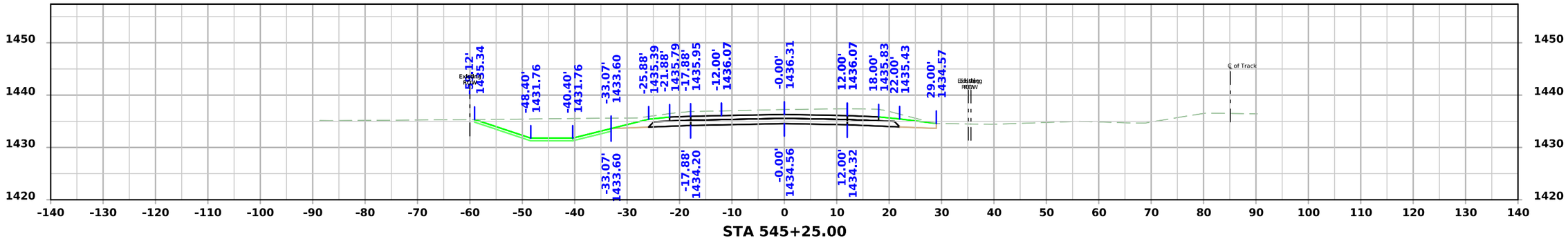


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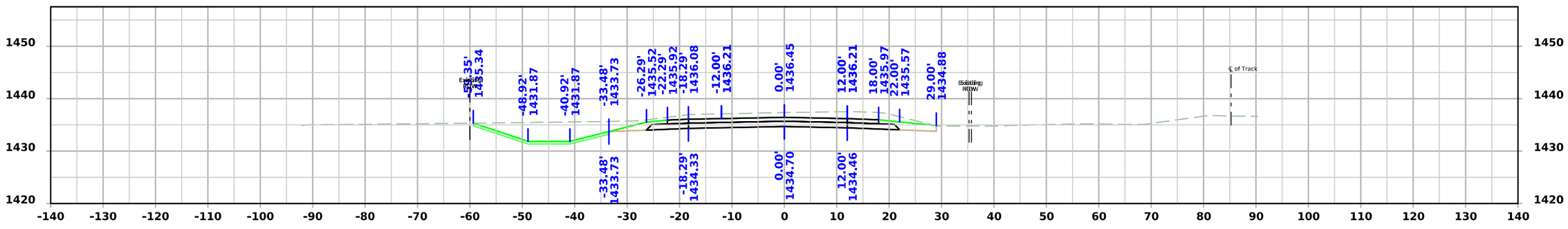
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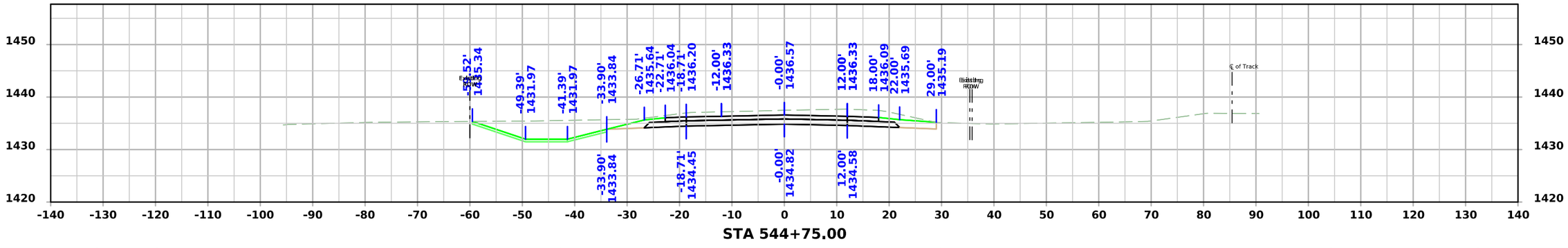
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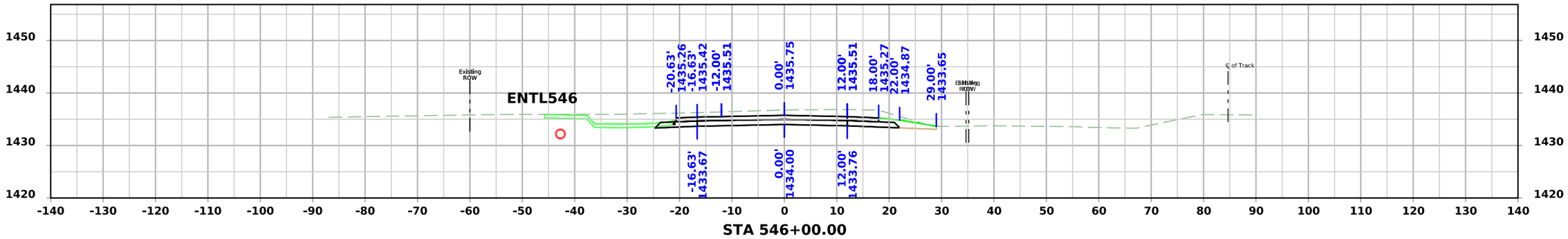


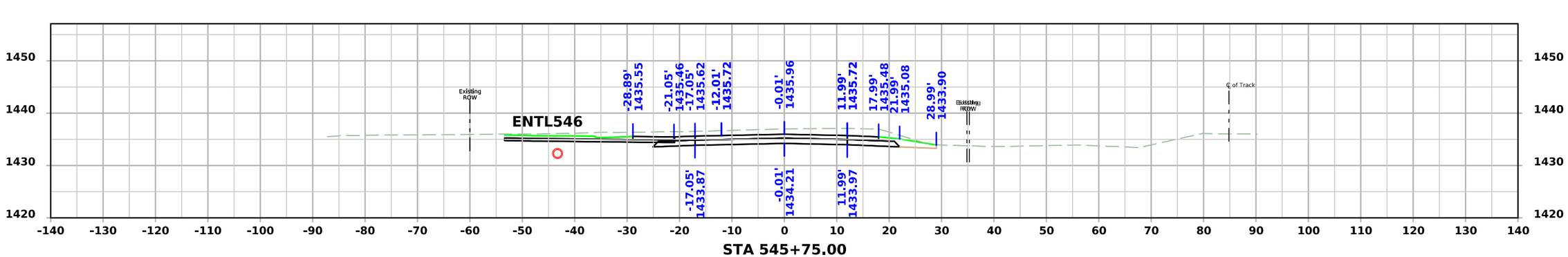
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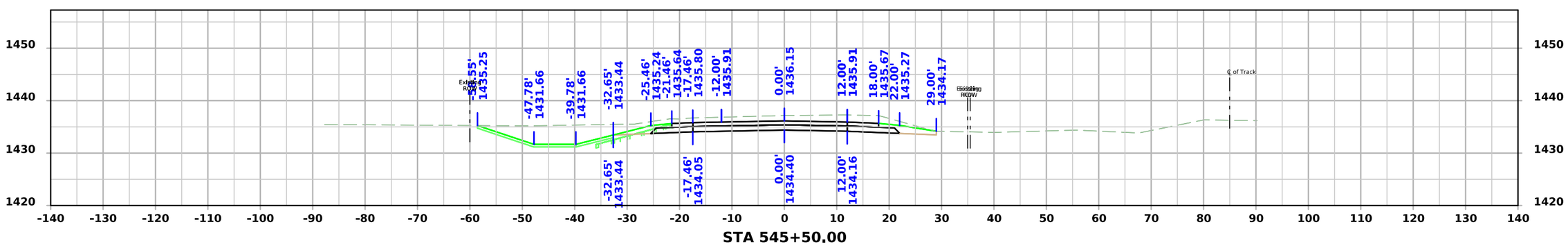
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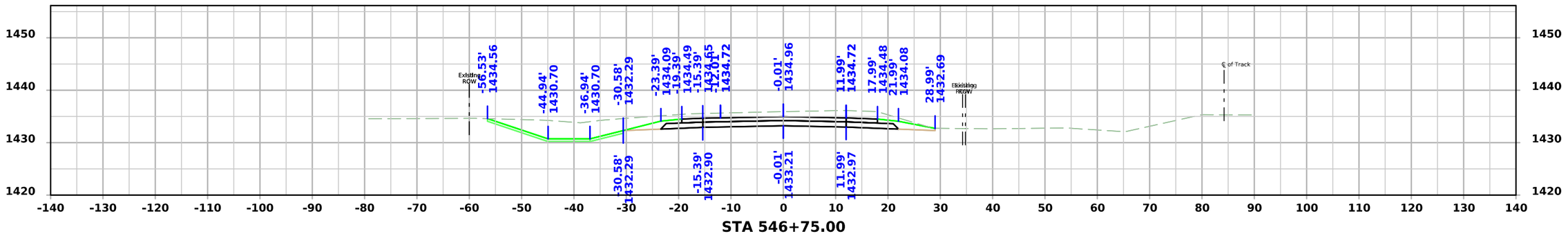




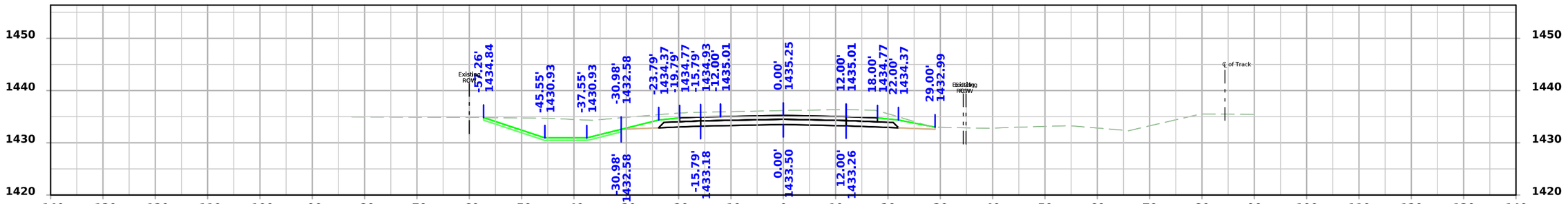
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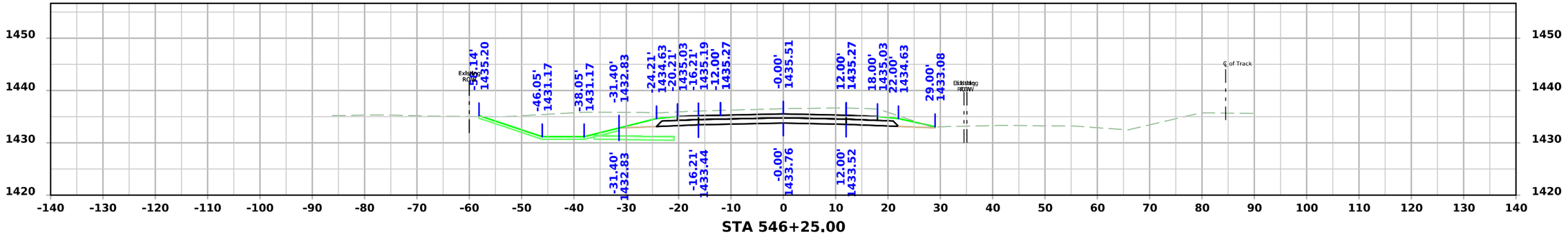
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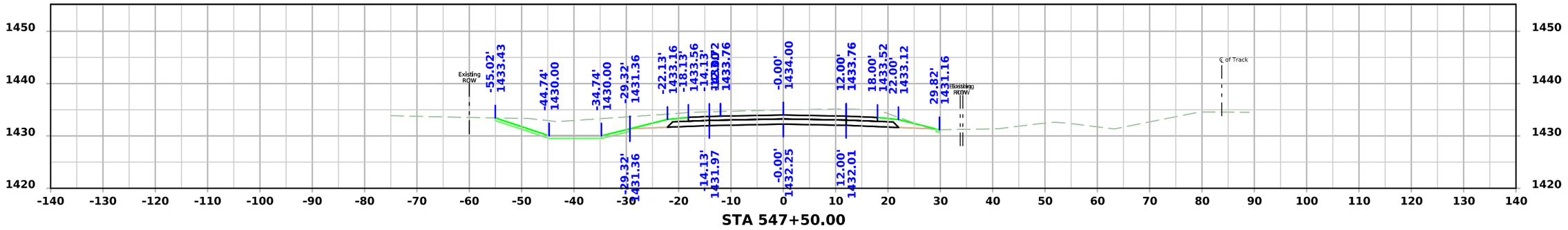


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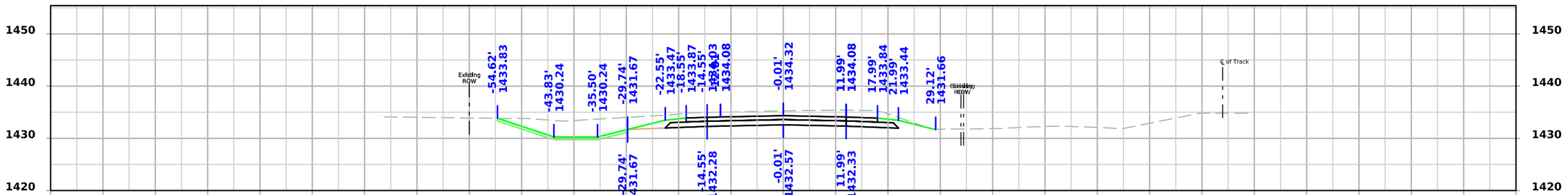
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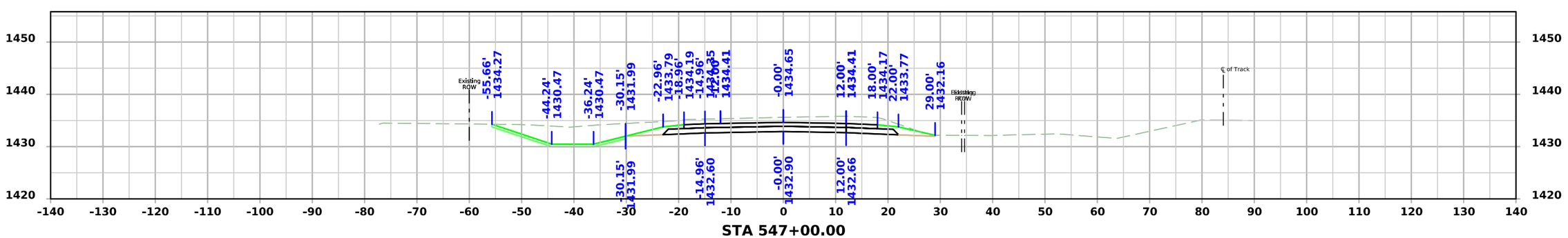
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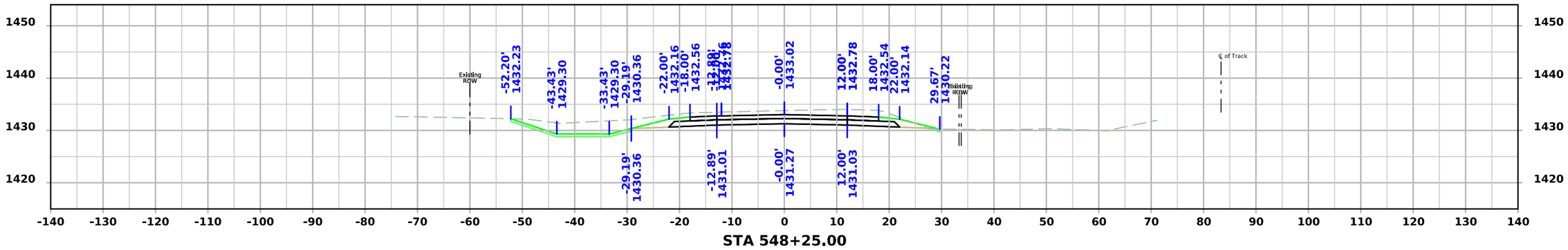


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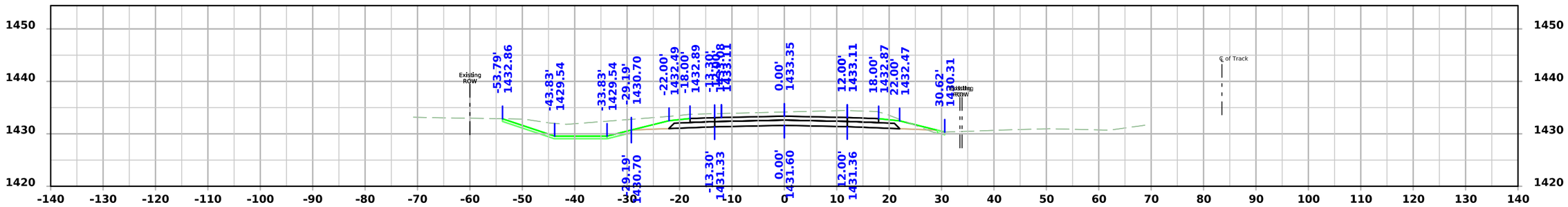
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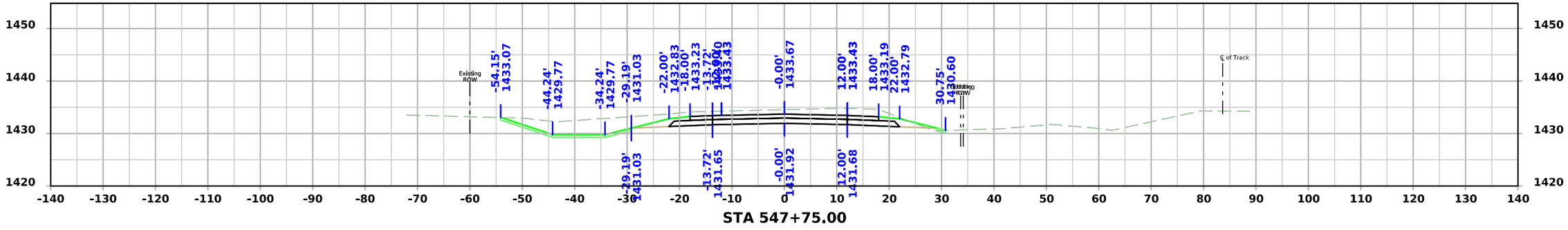
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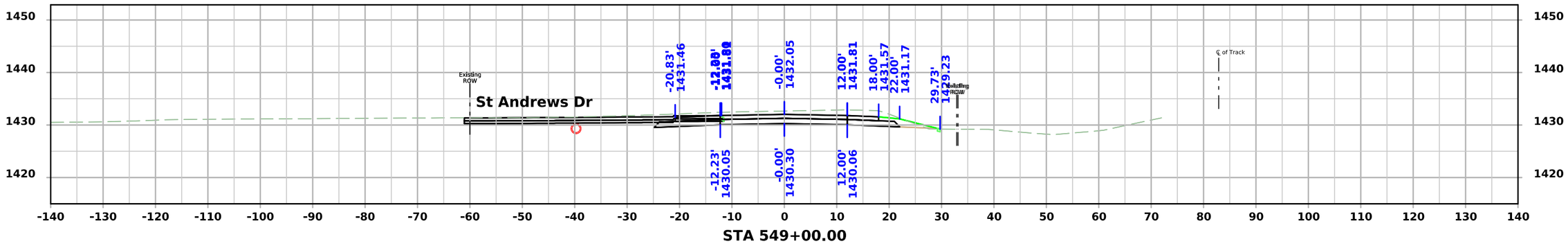


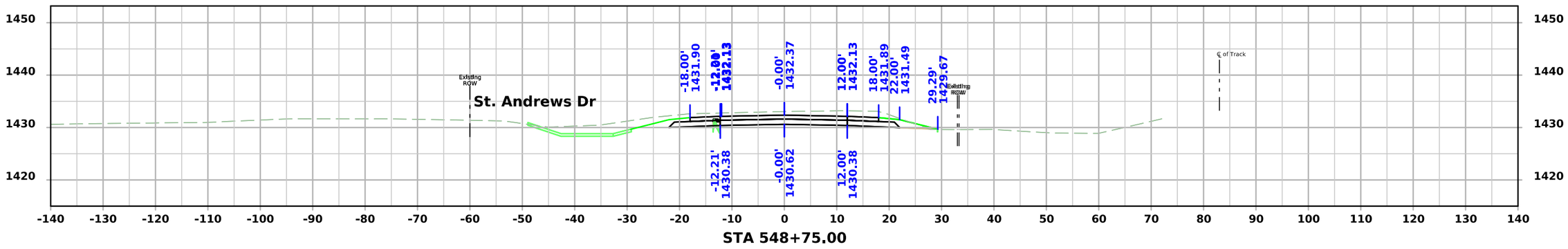
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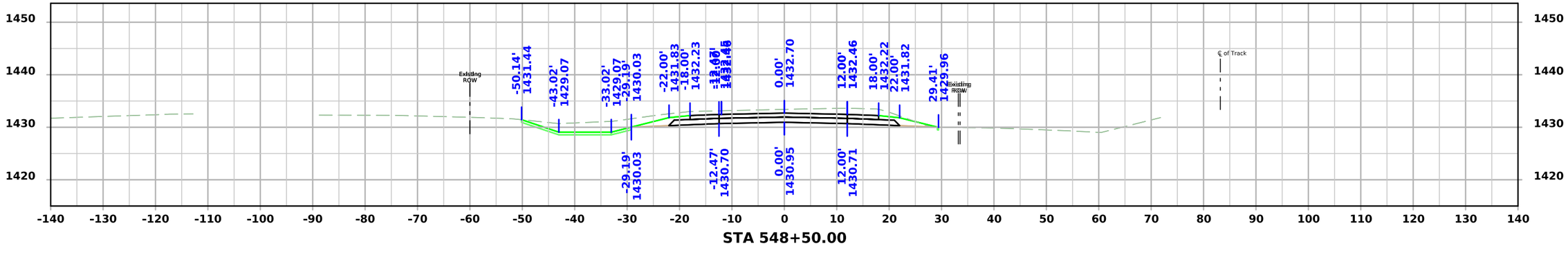
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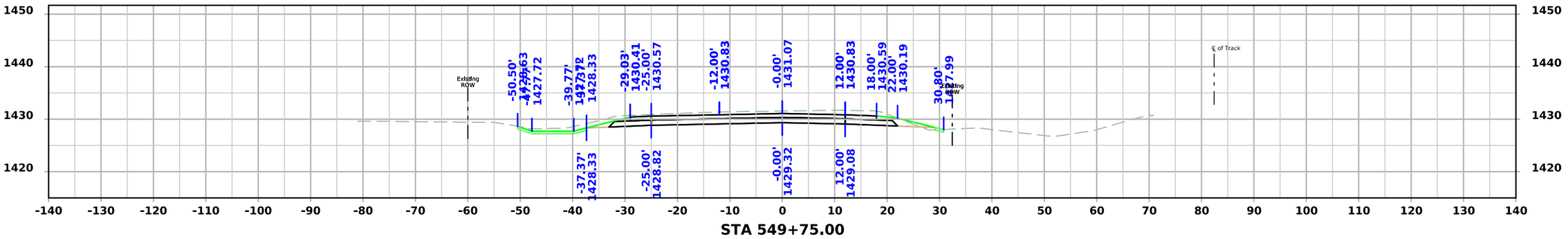


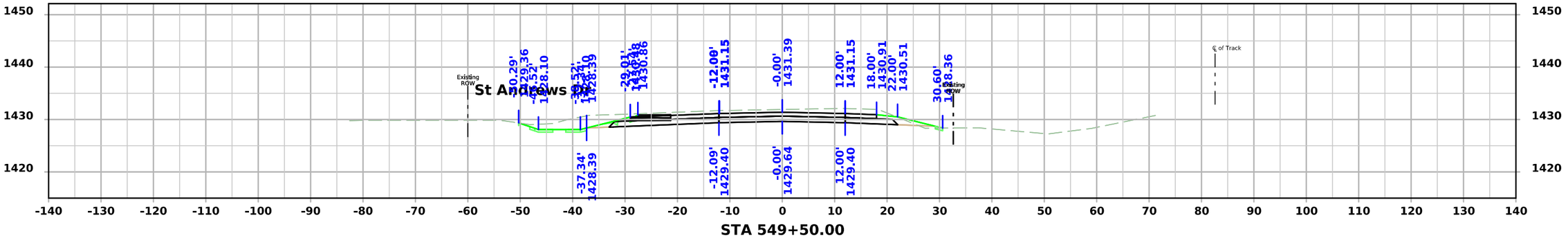


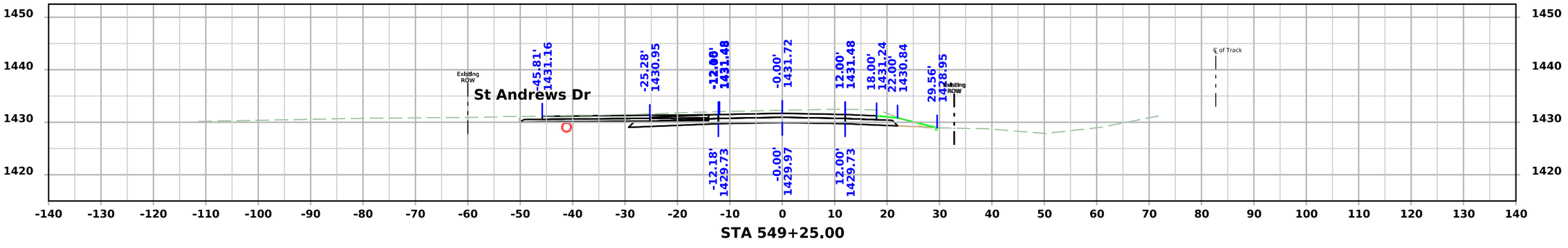
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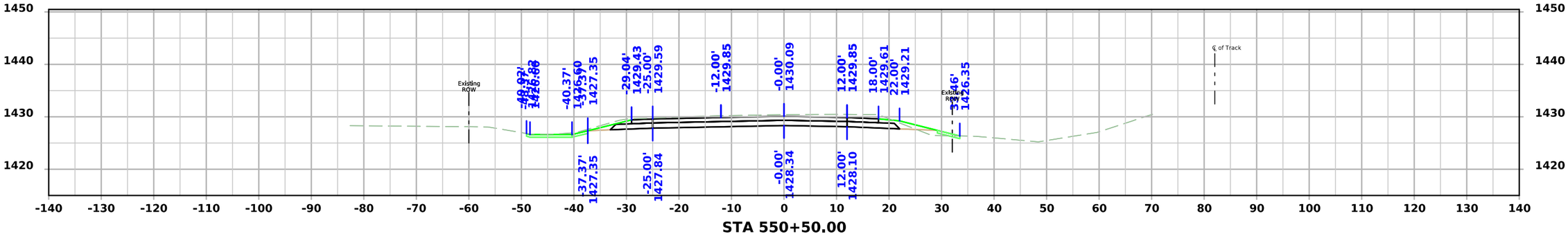


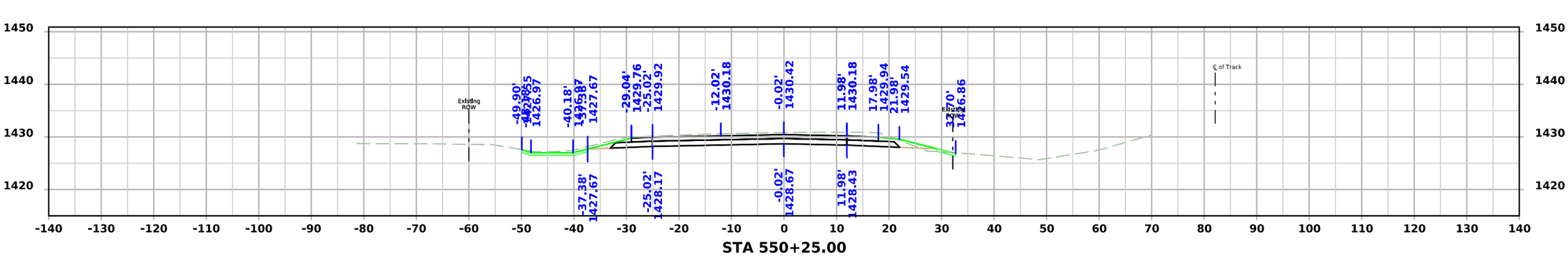


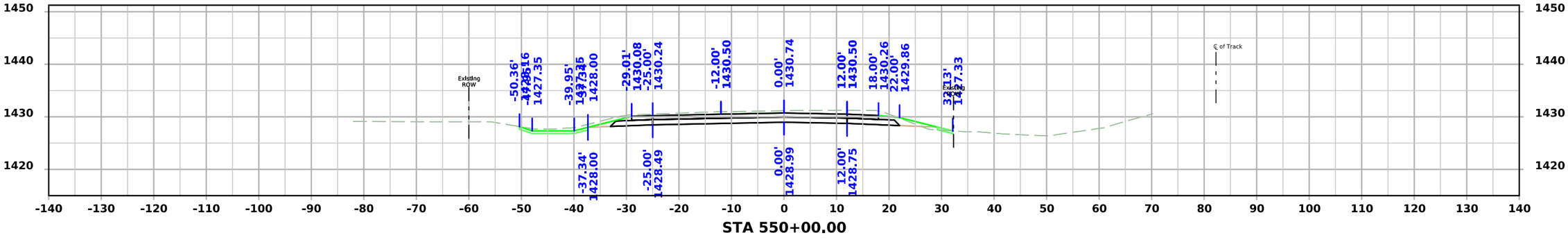
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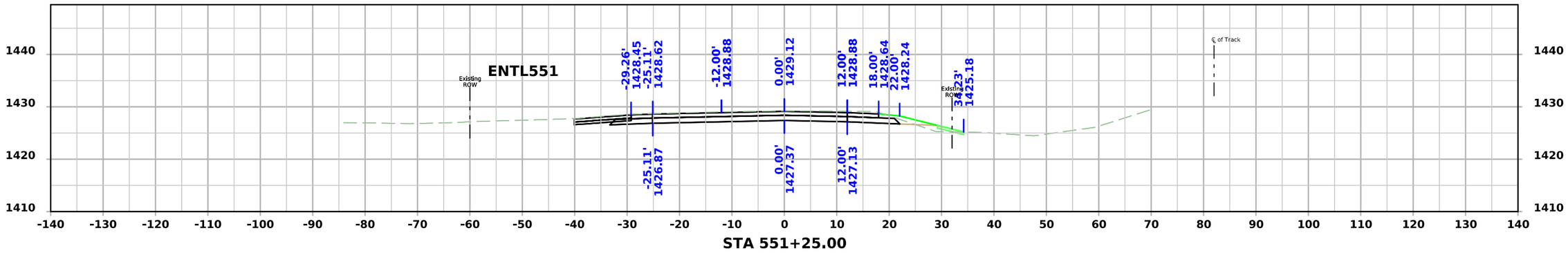




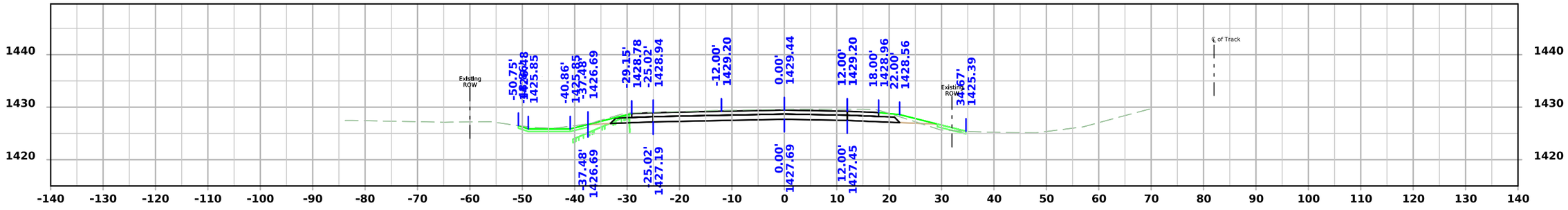
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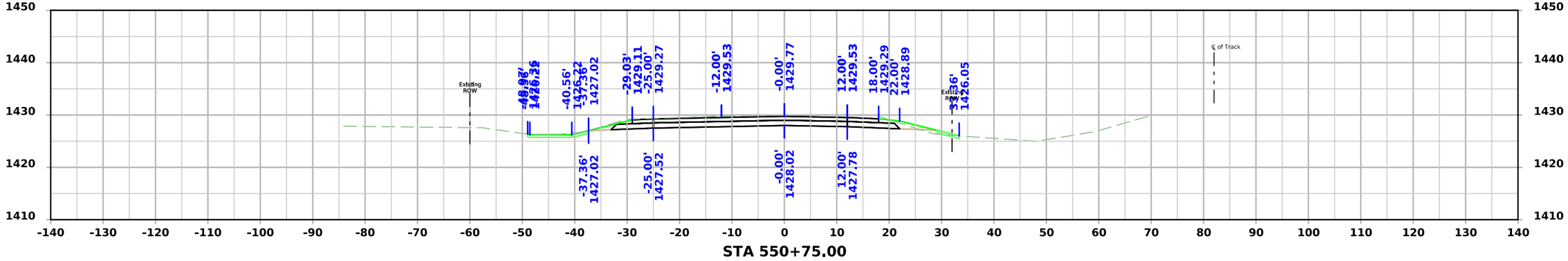
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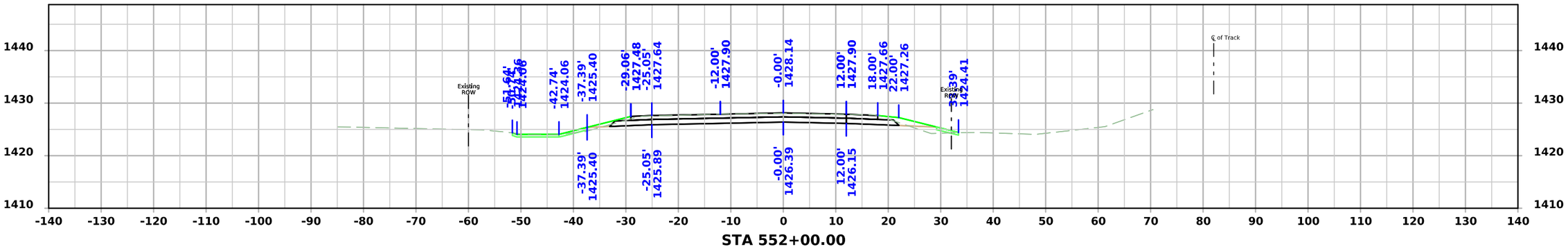


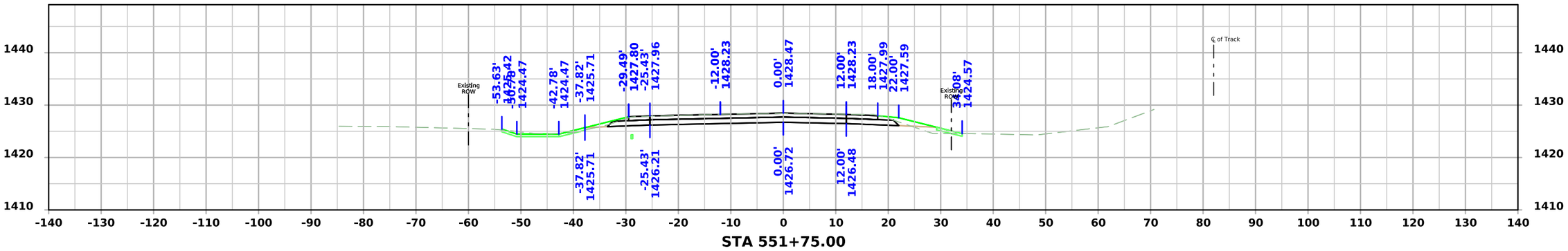
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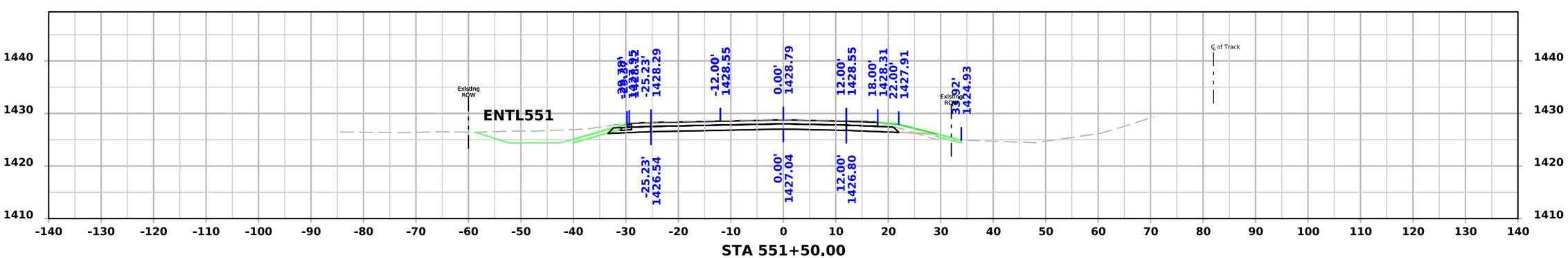
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IA 7



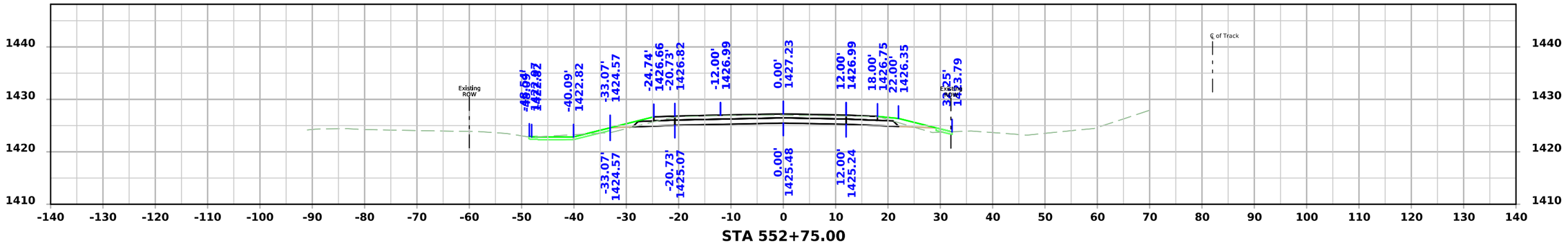




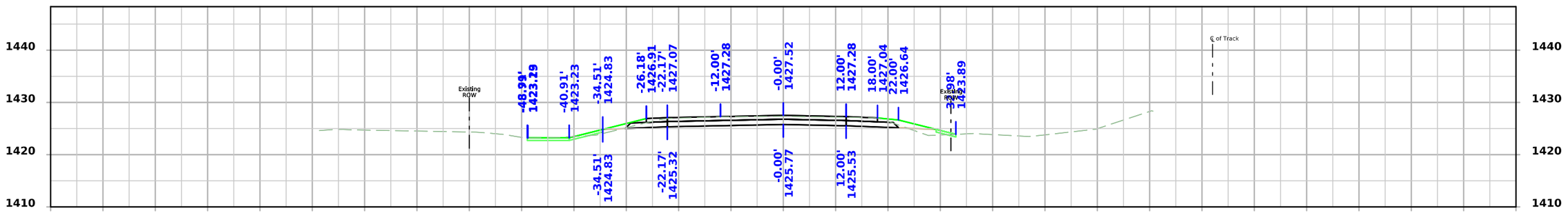
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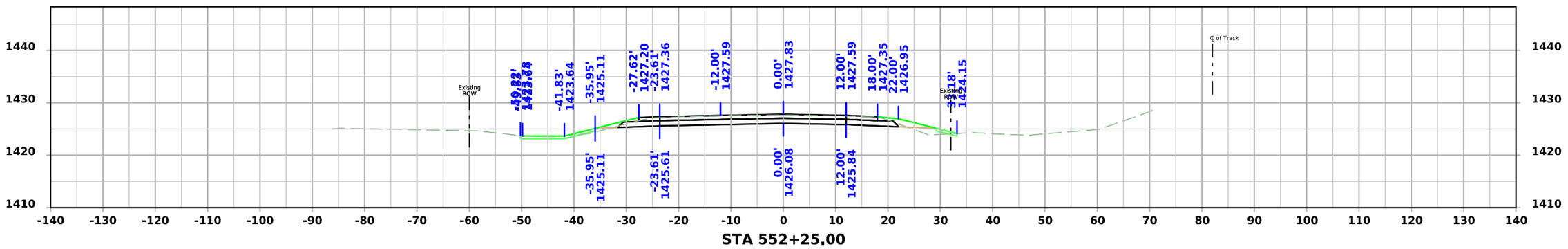
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STA 552+50.00

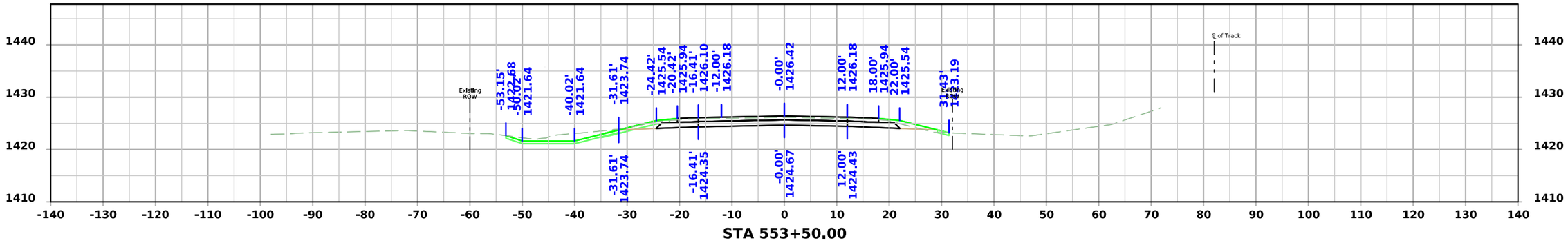


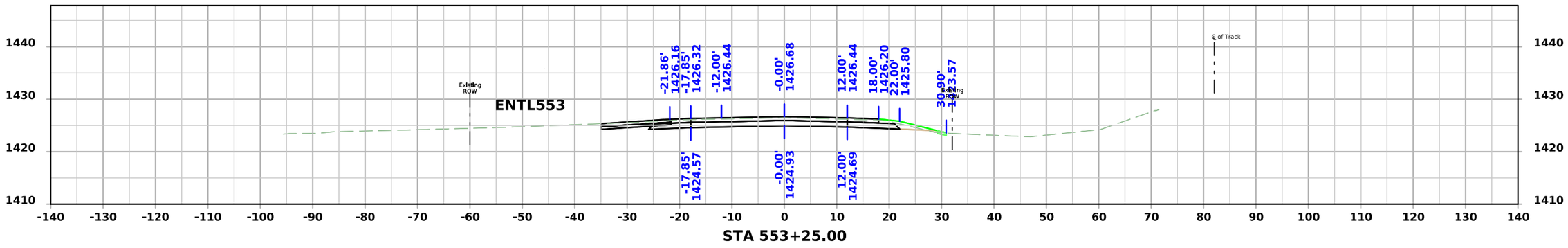
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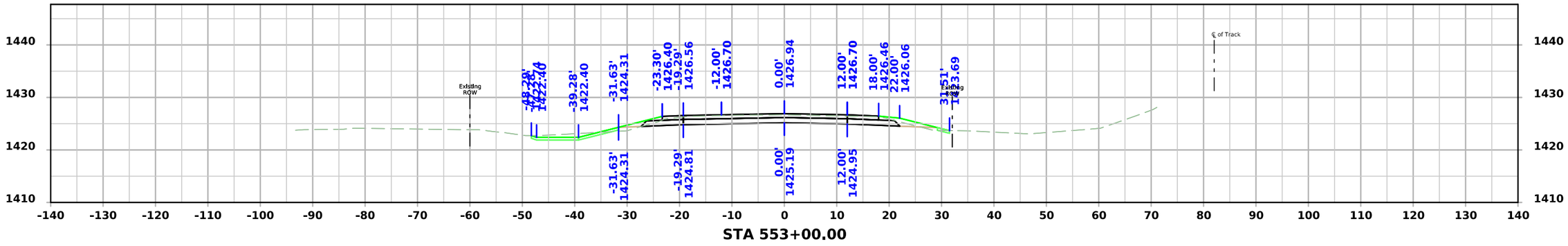
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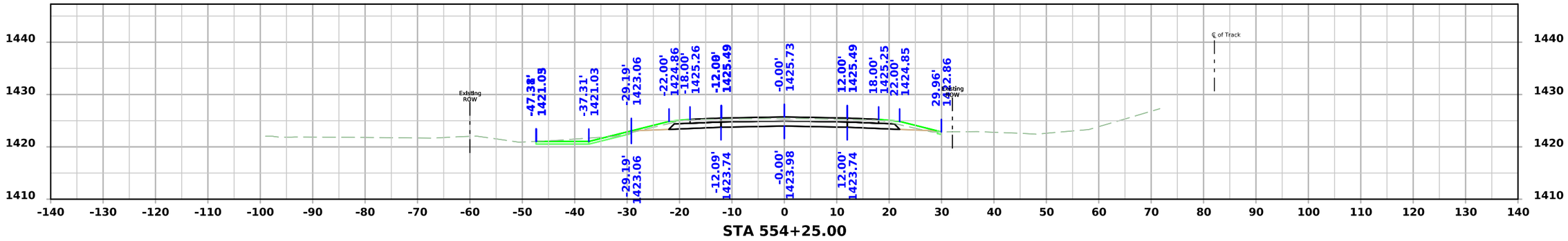




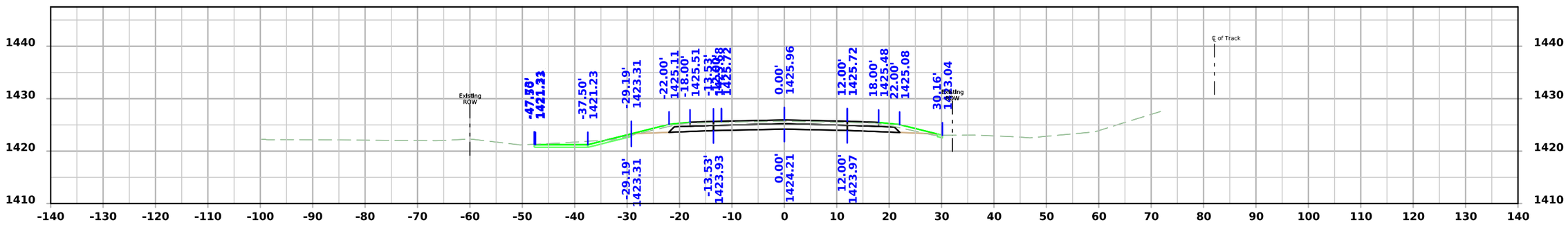
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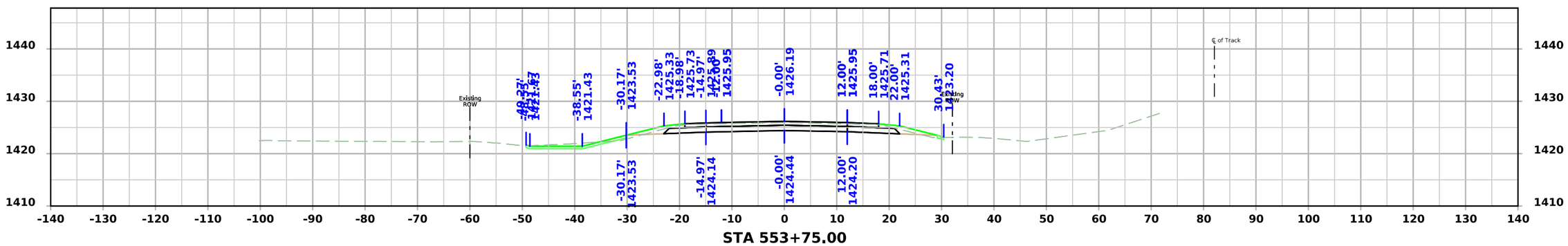
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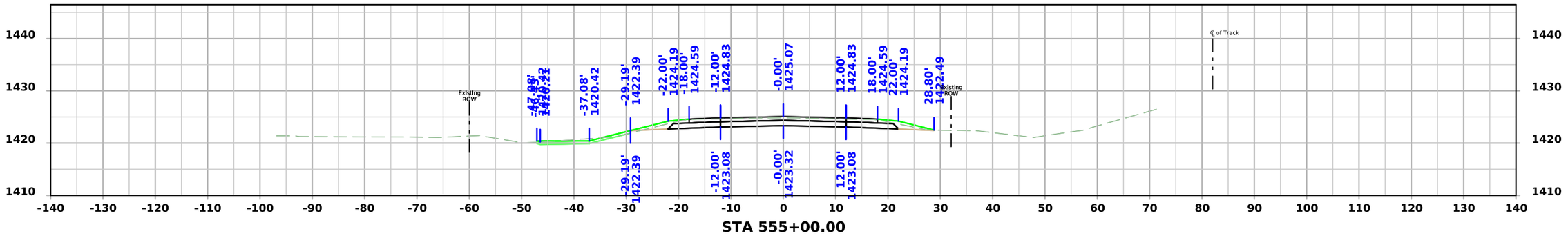


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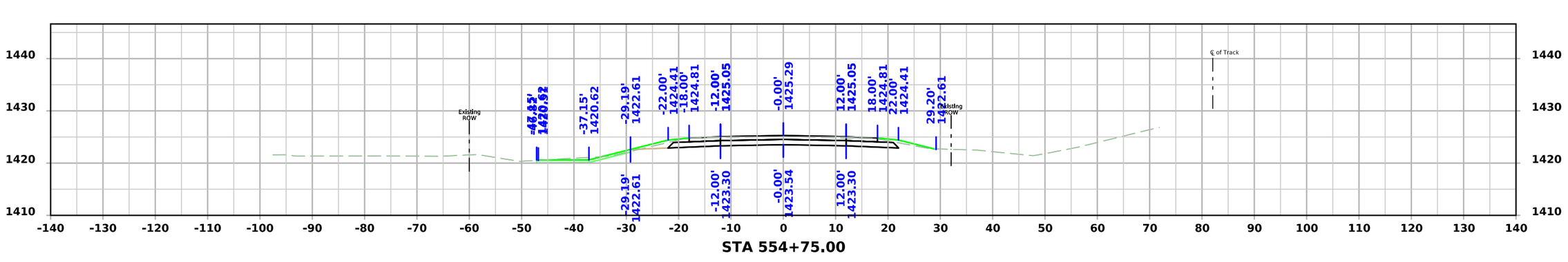
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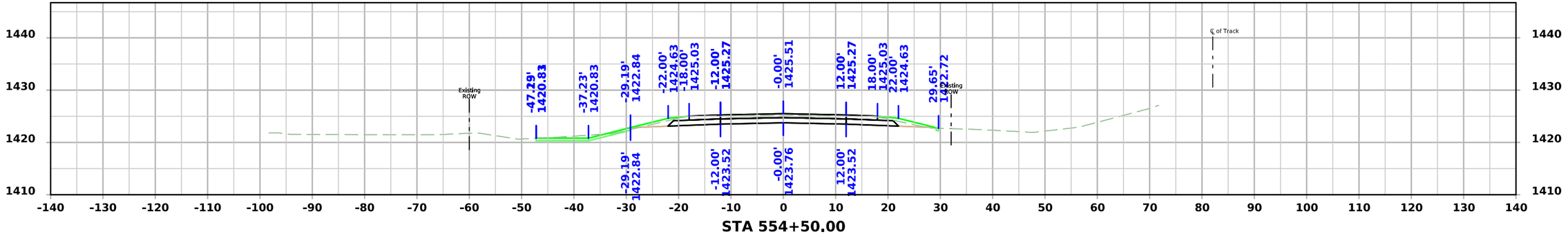
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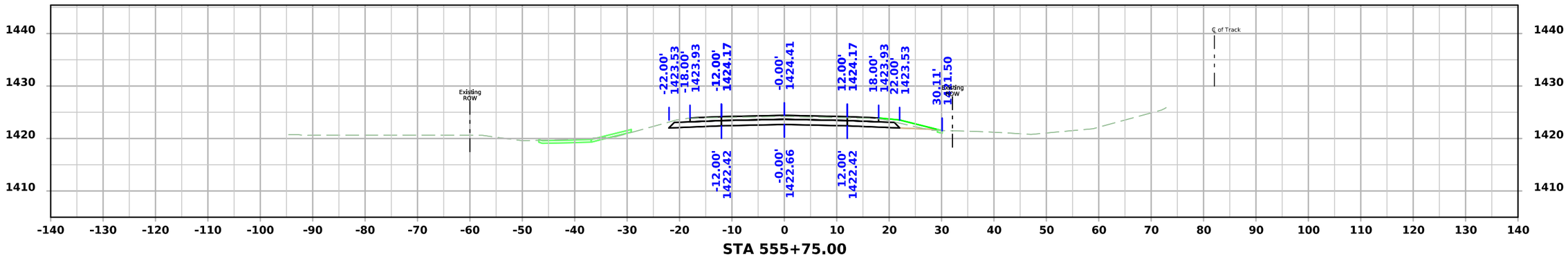


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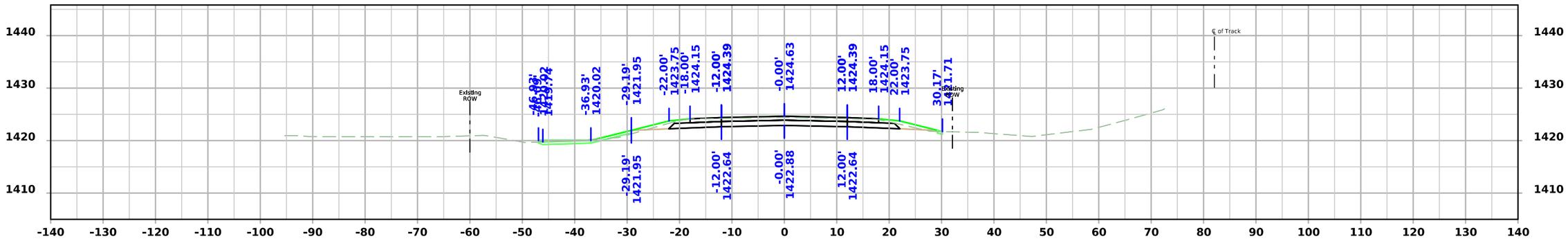
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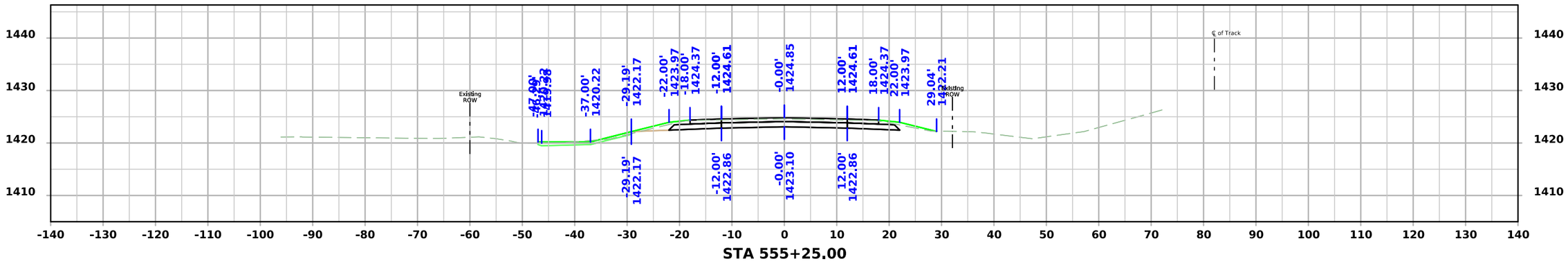
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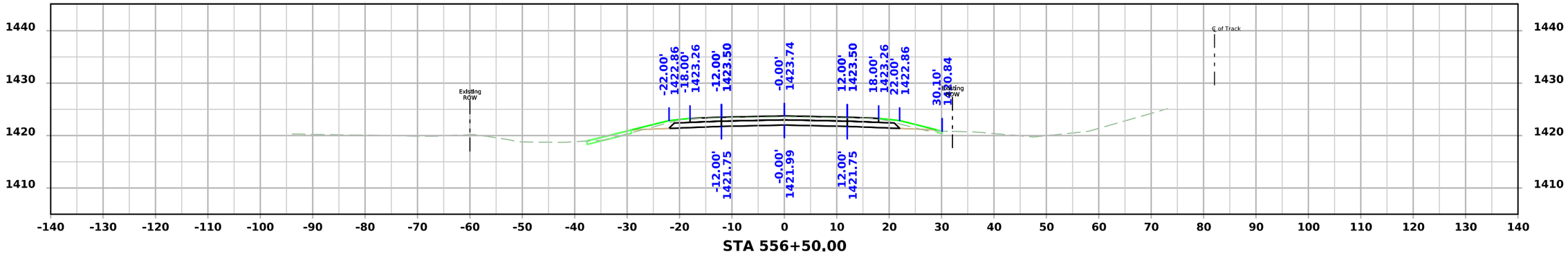


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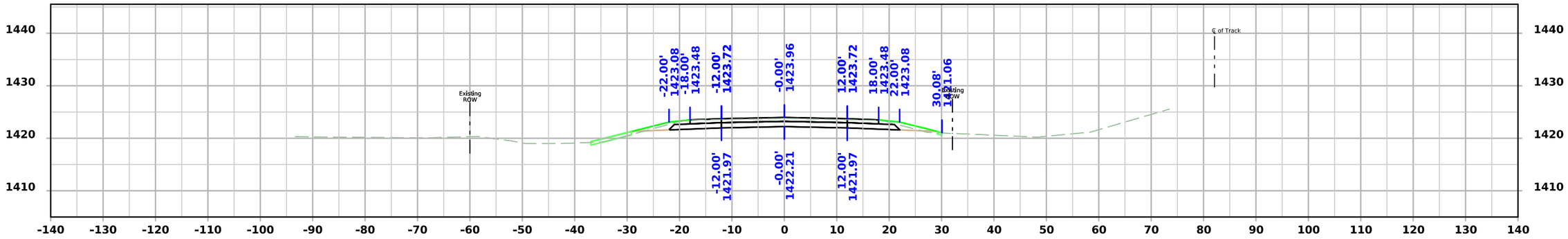
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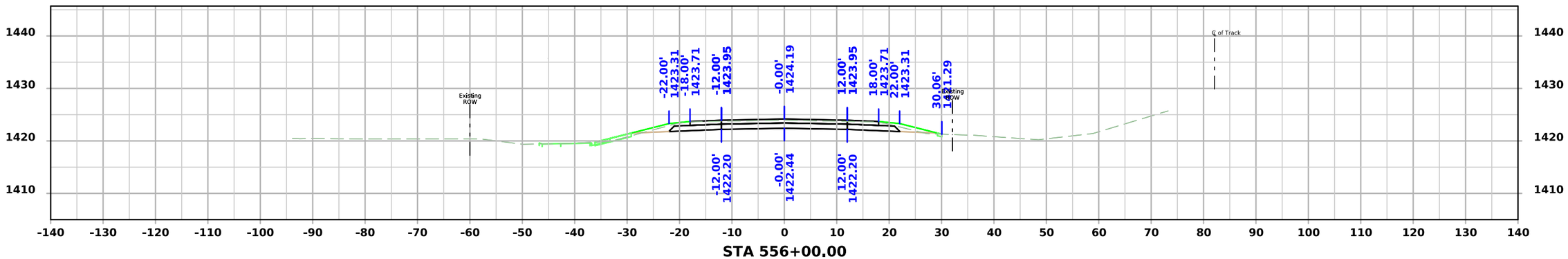
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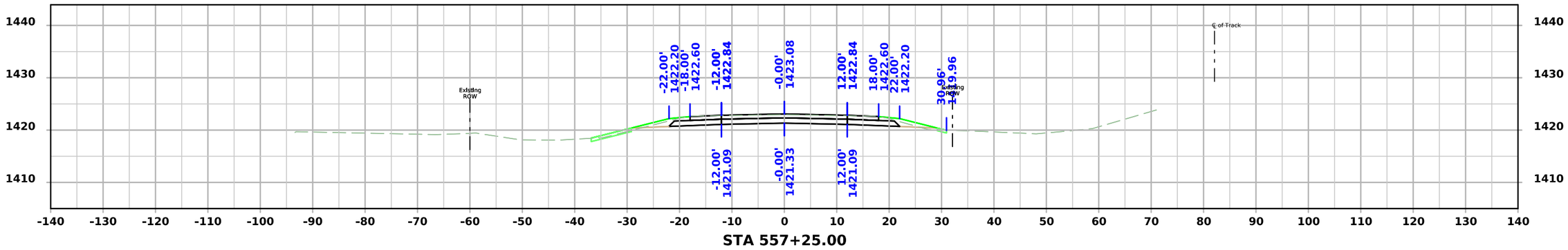


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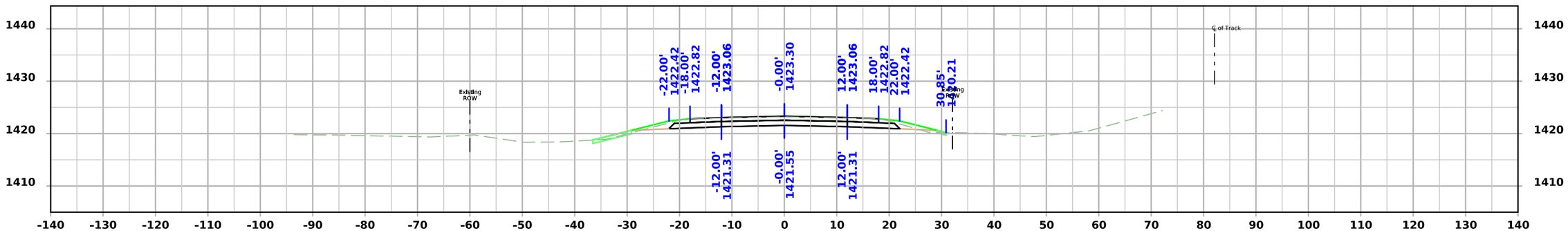
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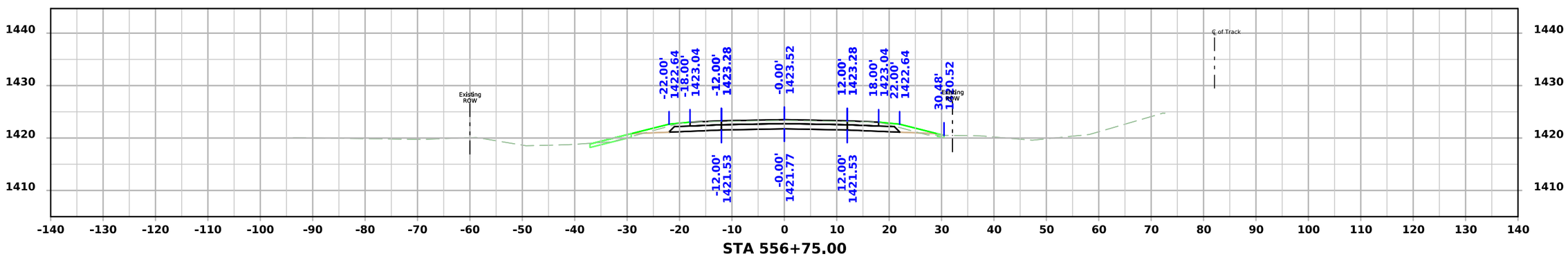
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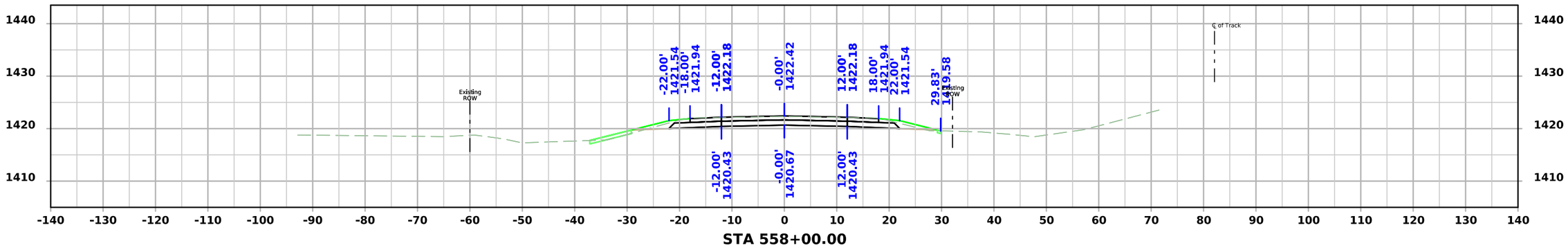


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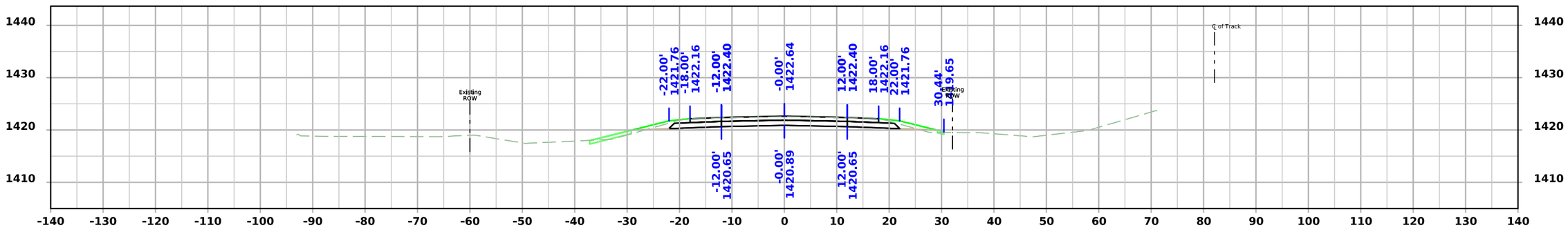
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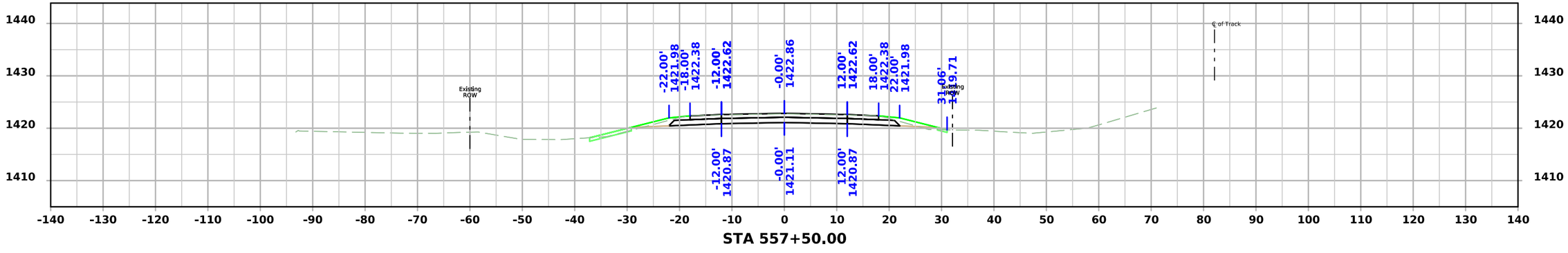
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STA 557+75.00

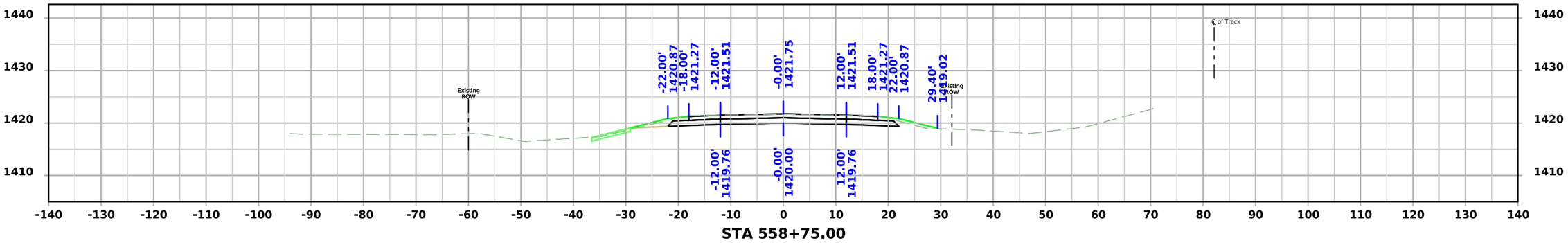


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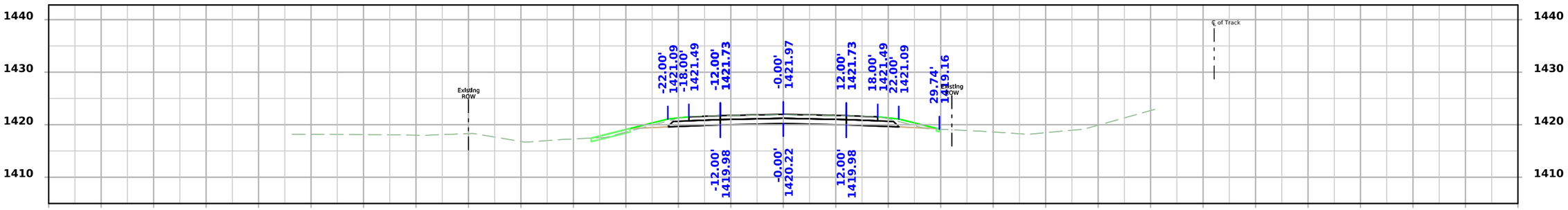
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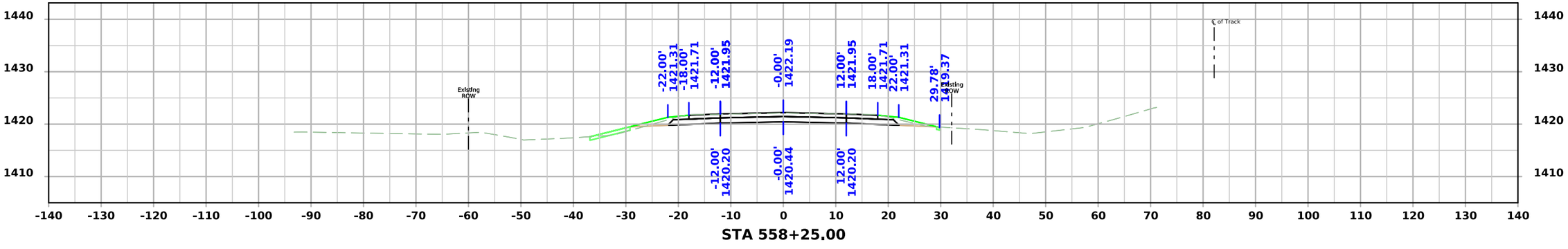
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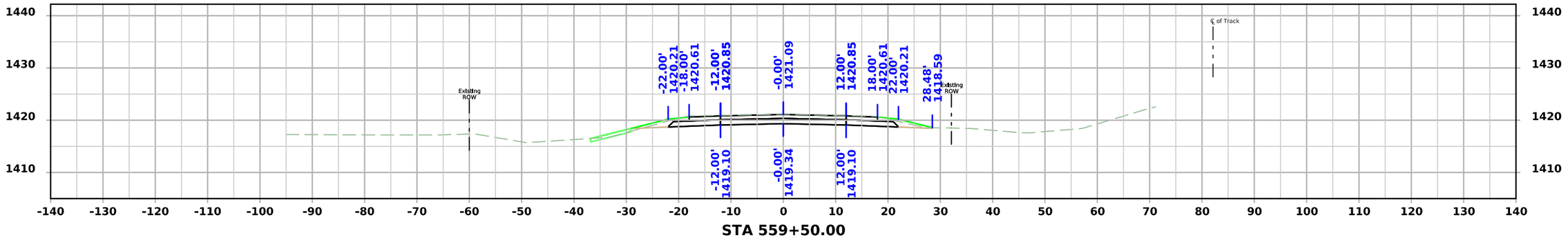


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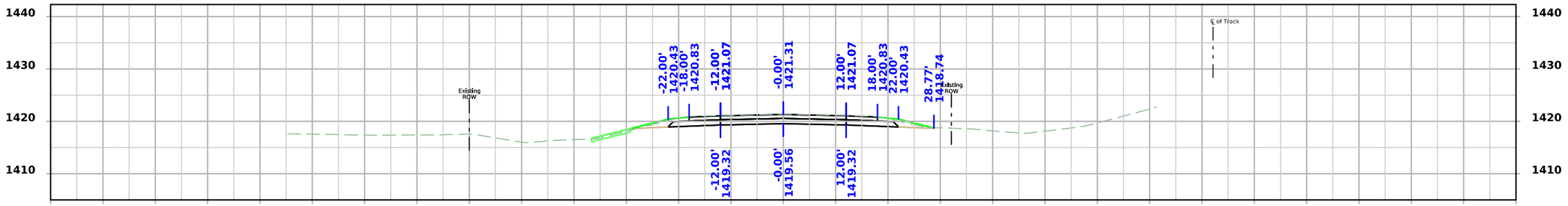
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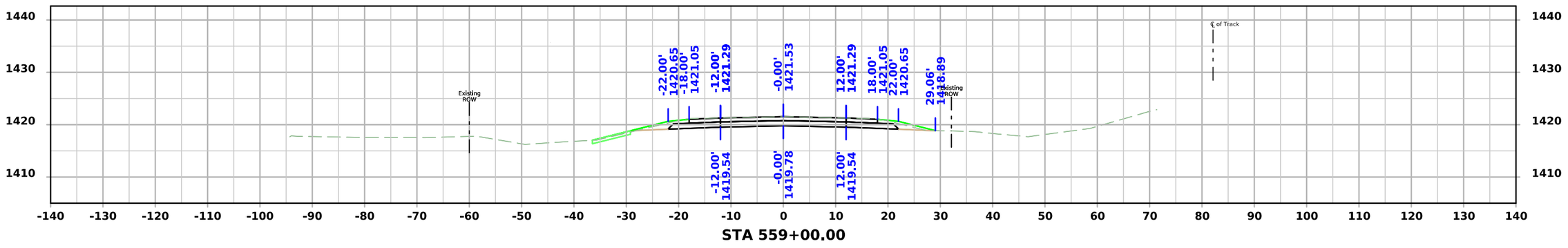
IA 7



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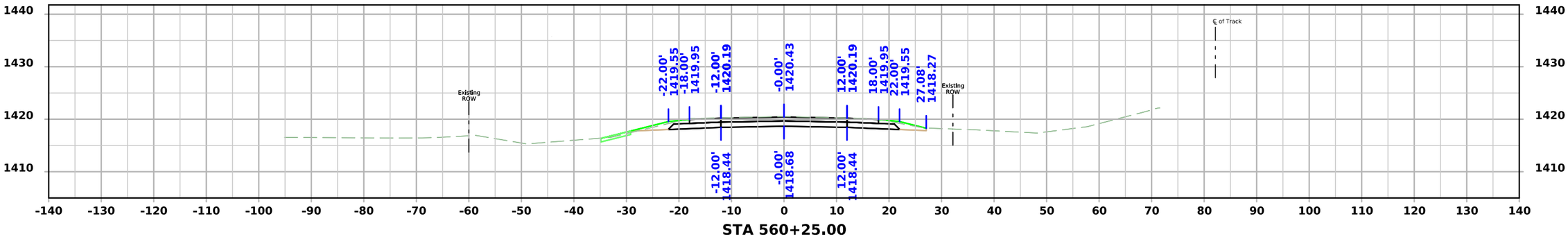


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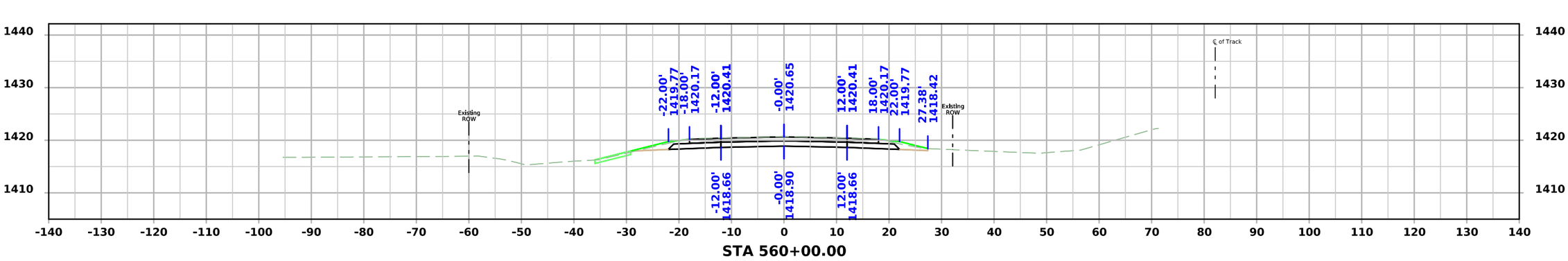
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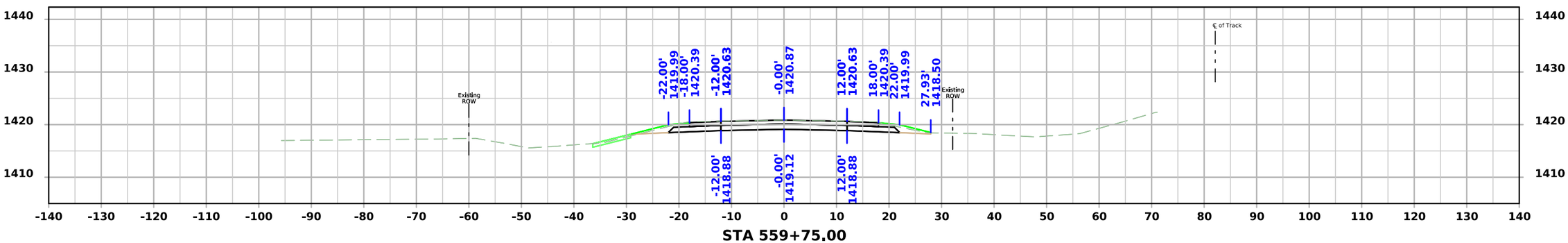
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STA 560+00.00

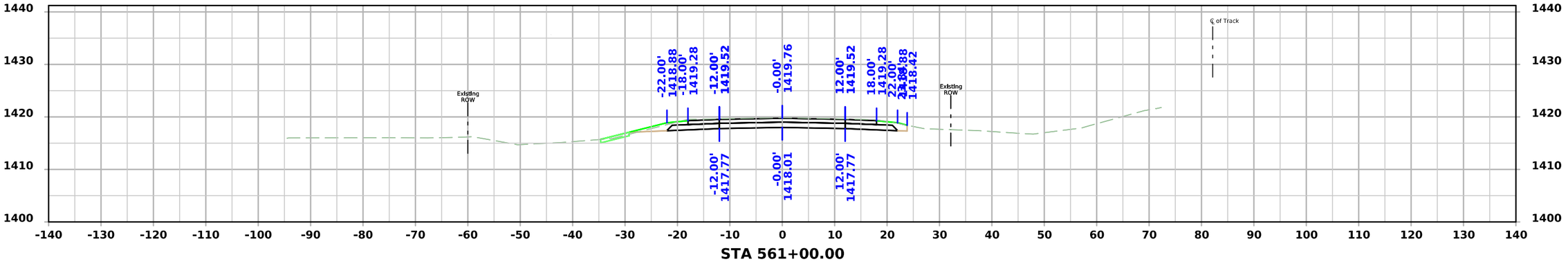


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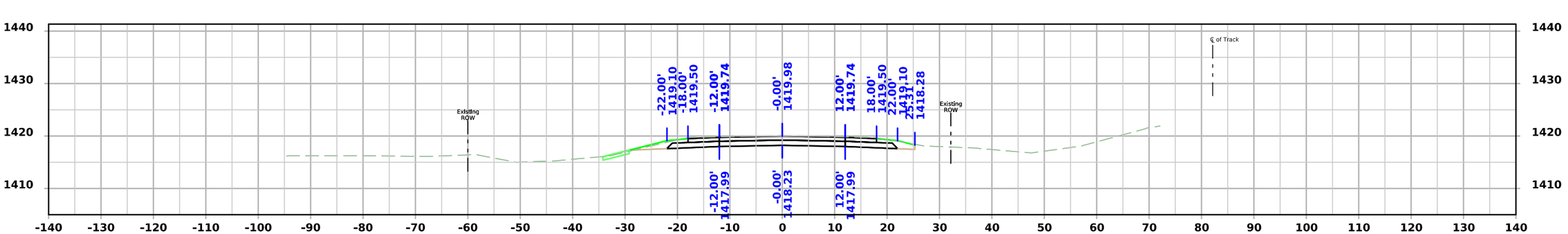
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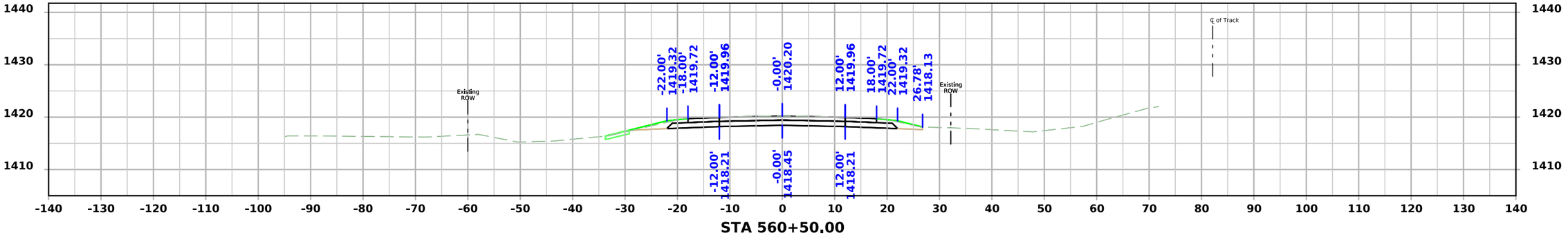
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STA 560+75.00

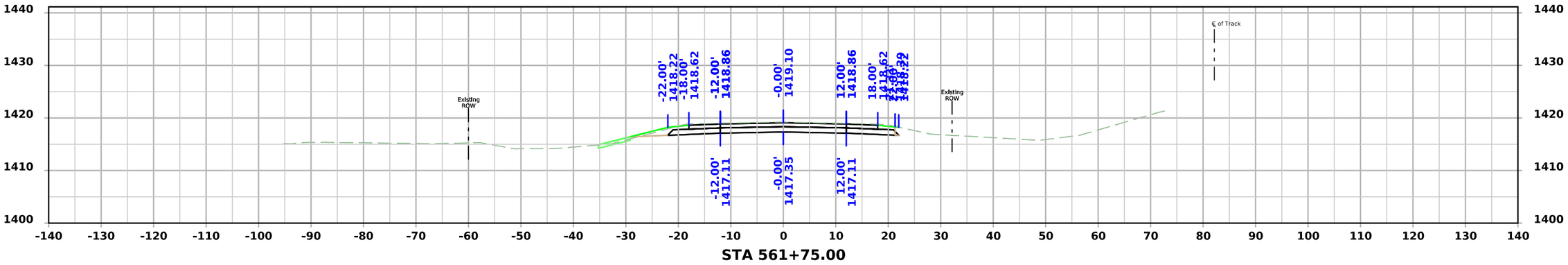


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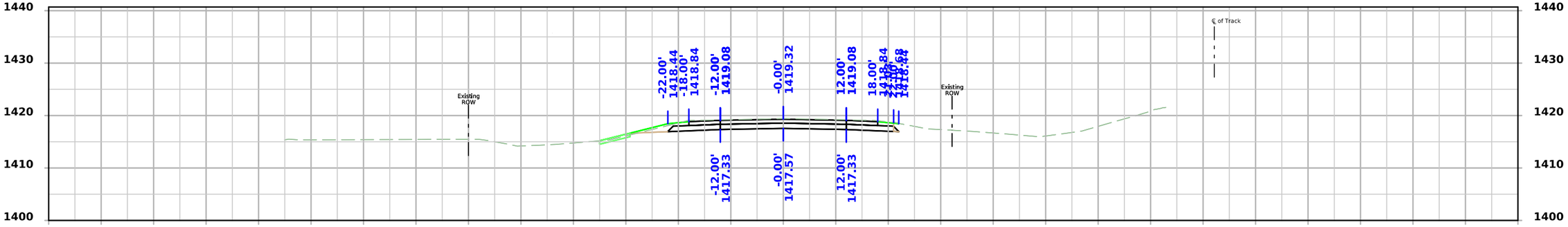
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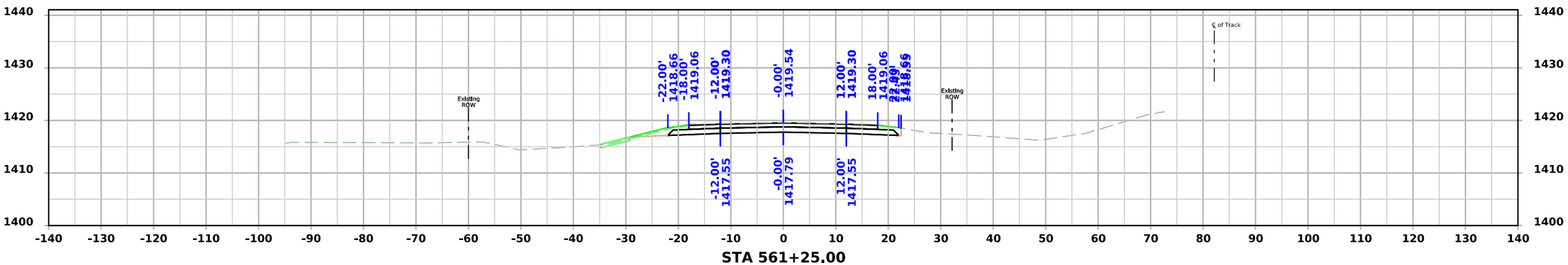
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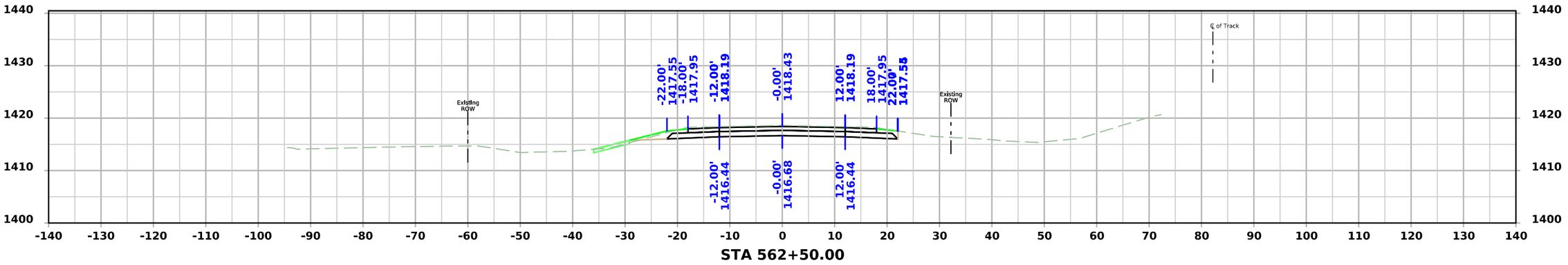


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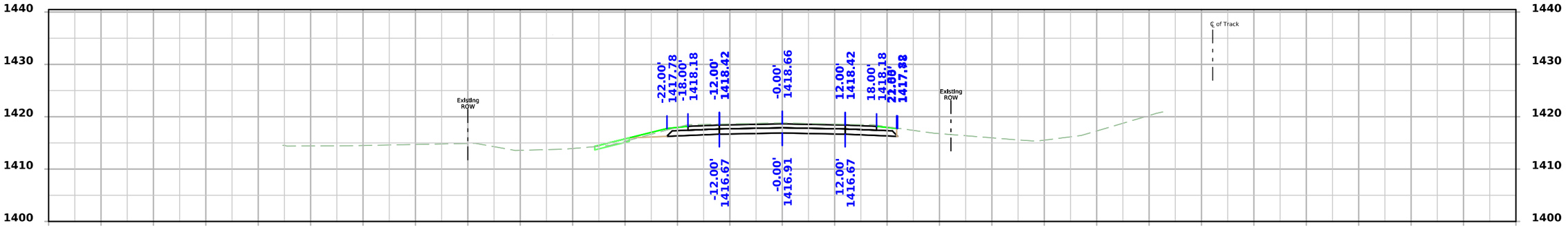
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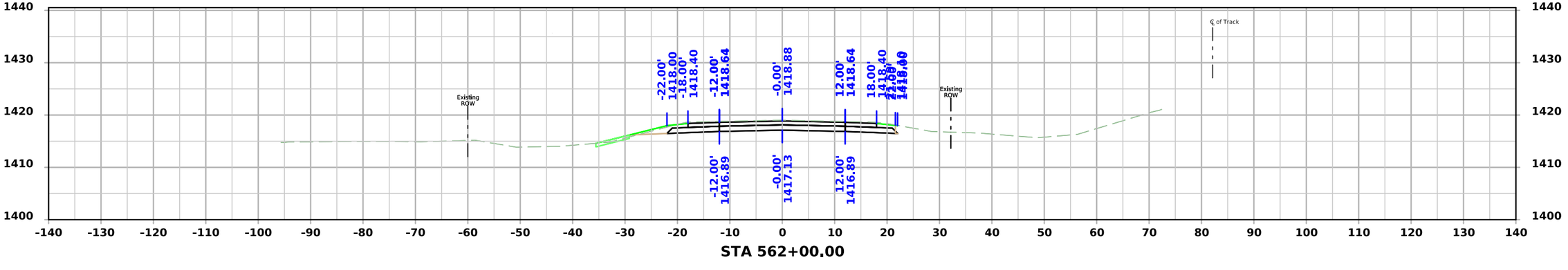
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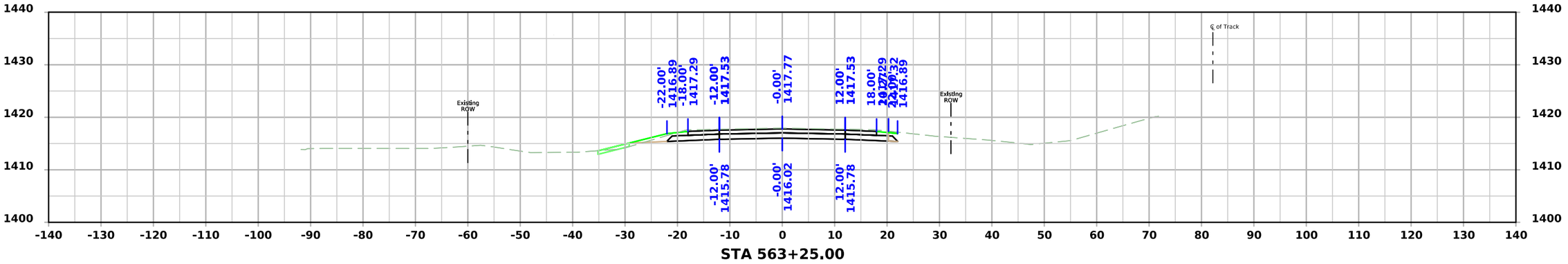


STA 562+00.00

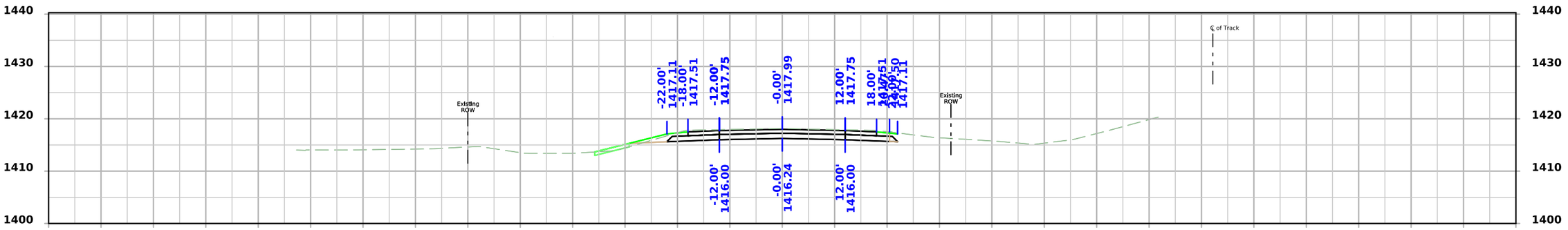
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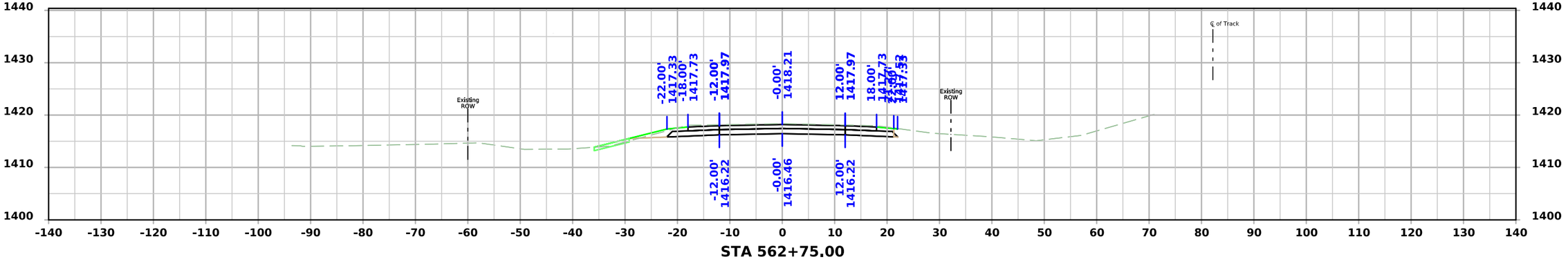
IA 7



STA 563+25.00



STA 563+00.00

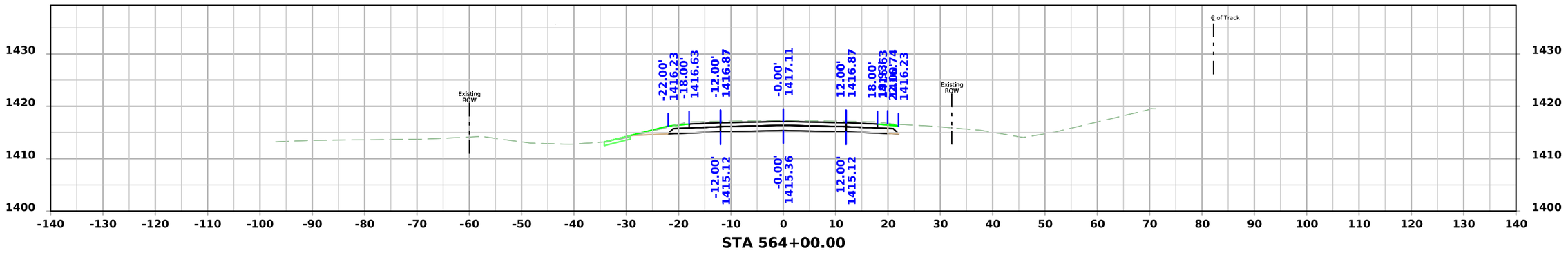


STA 562+75.00

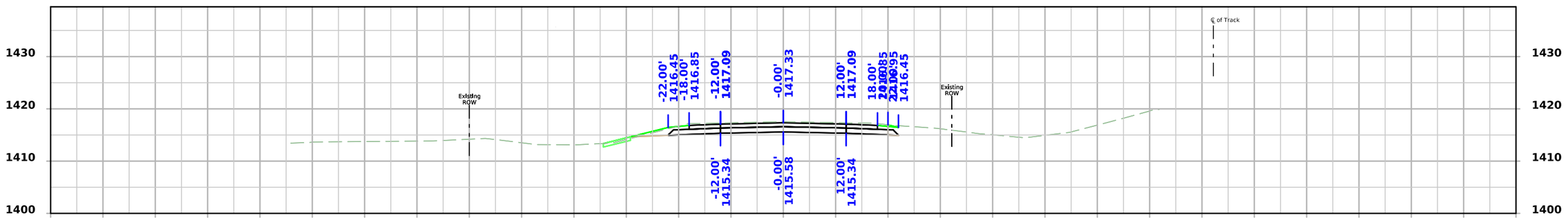
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.49**

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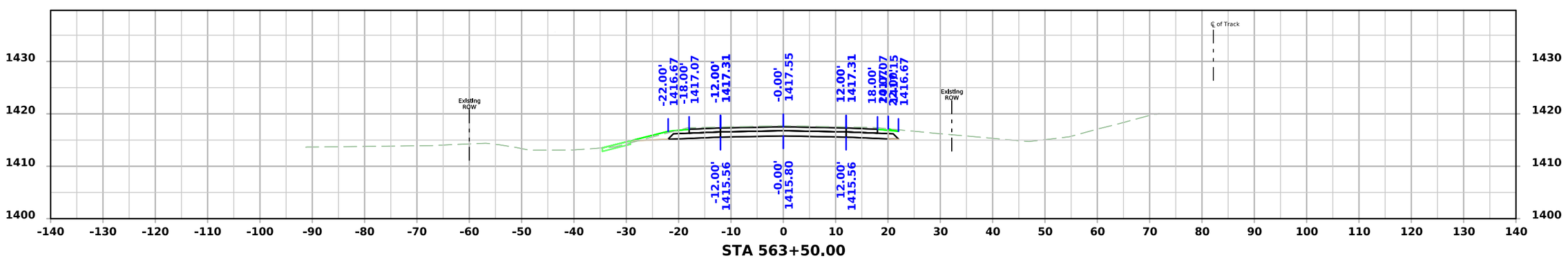
IA 7



STA 564+00.00



STA 563+75.00

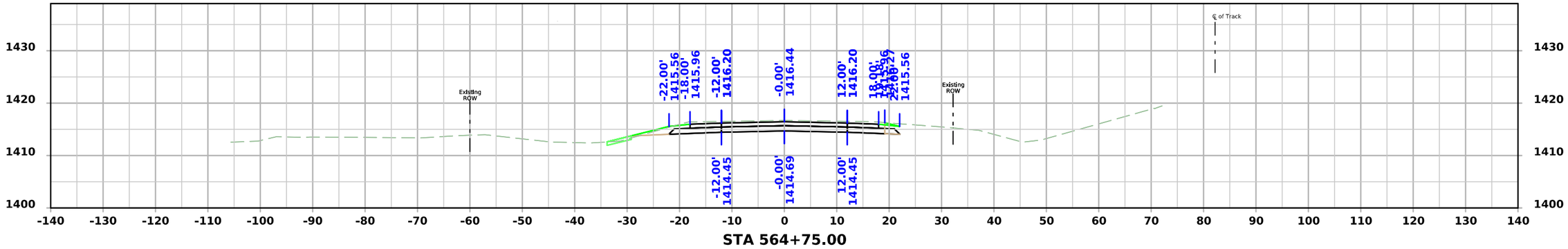


STA 563+50.00

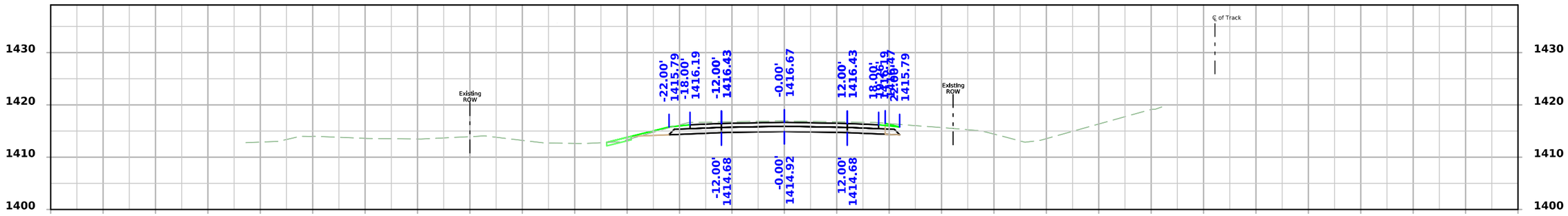
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1:45:09 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_ML007_11007038Z04.dgn

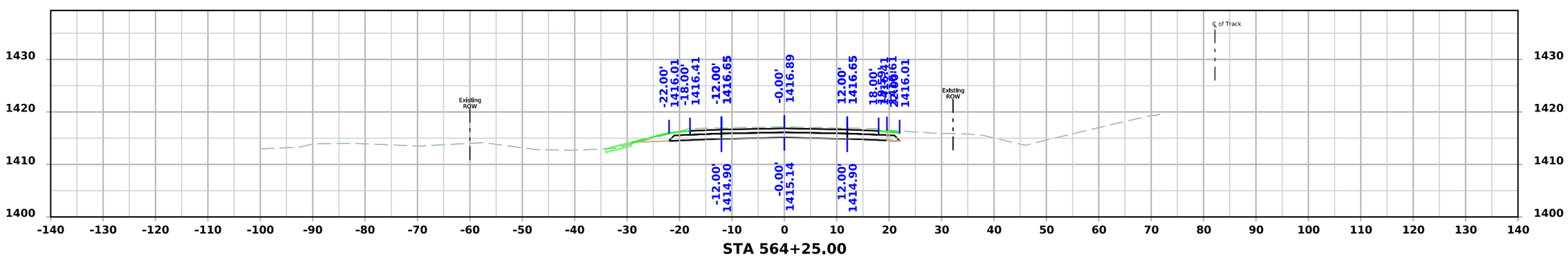
IA 7



STA 564+75.00



STA 564+50.00

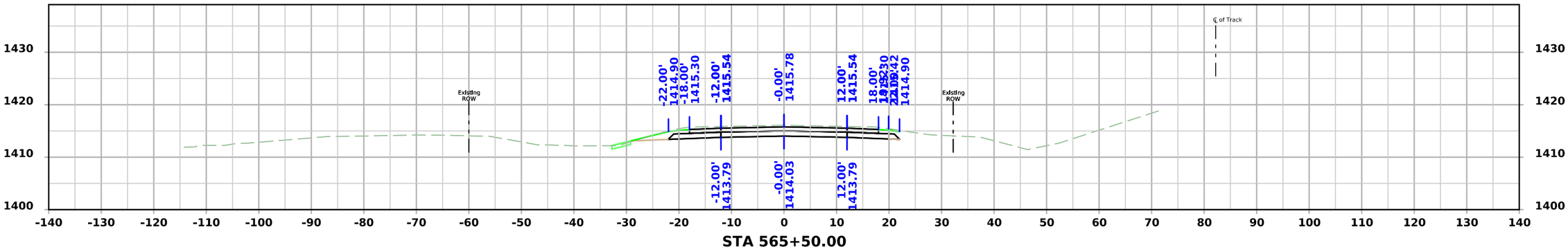


STA 564+25.00

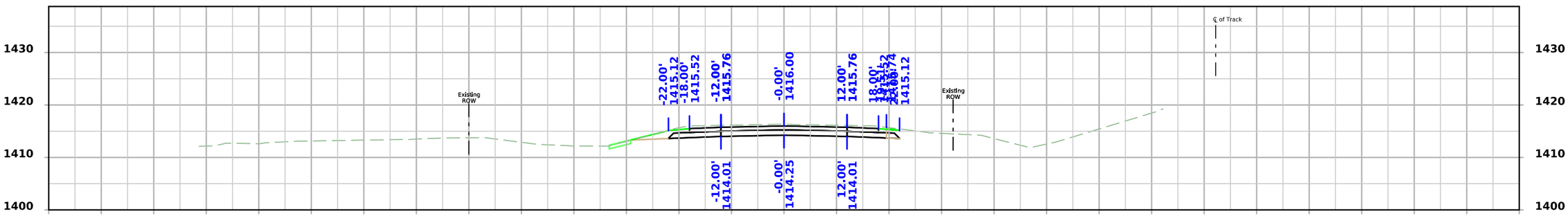
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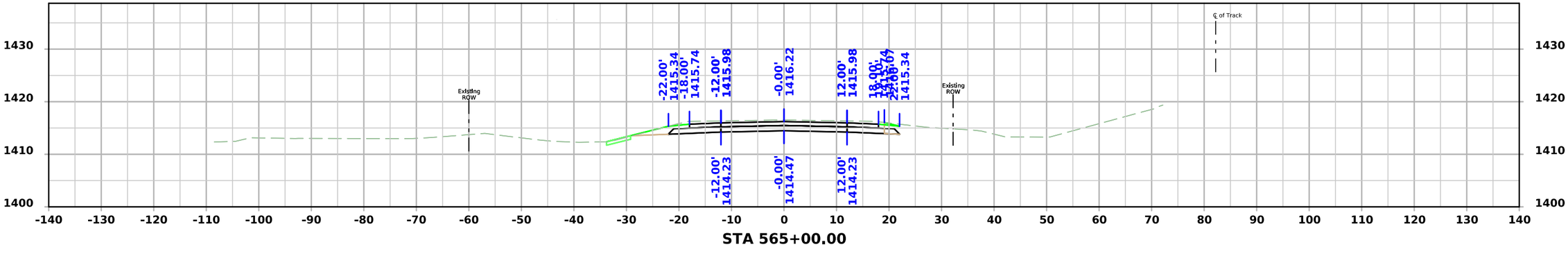
IA 7



STA 565+50.00



STA 565+25.00

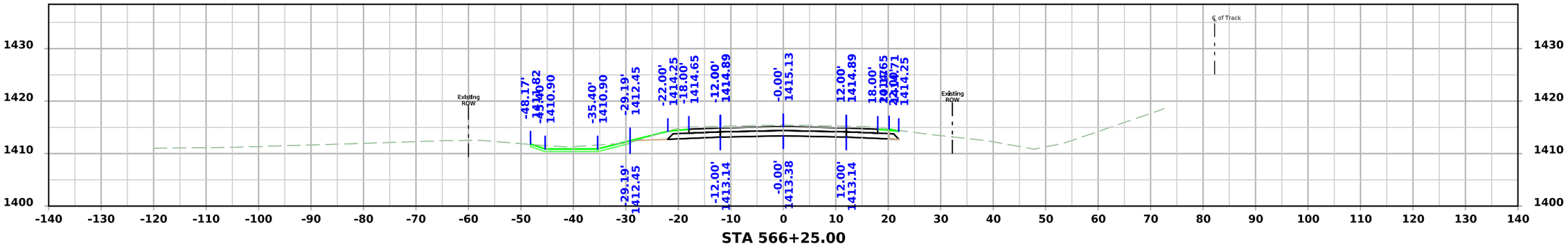


STA 565+00.00

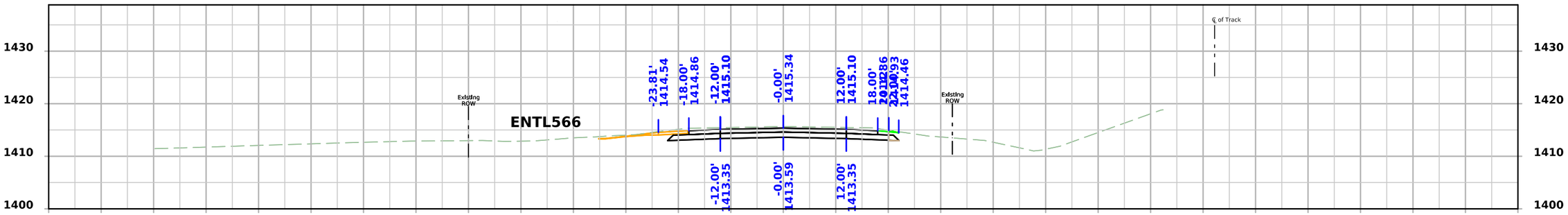
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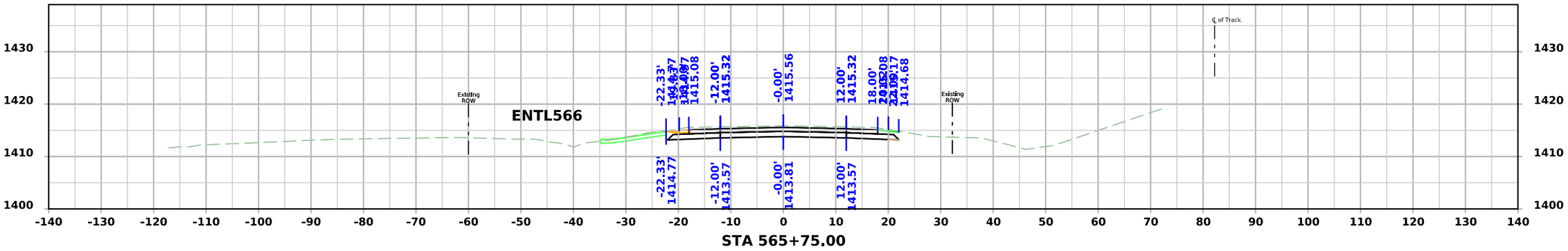
IA 7



STA 566+25.00



STA 566+00.00

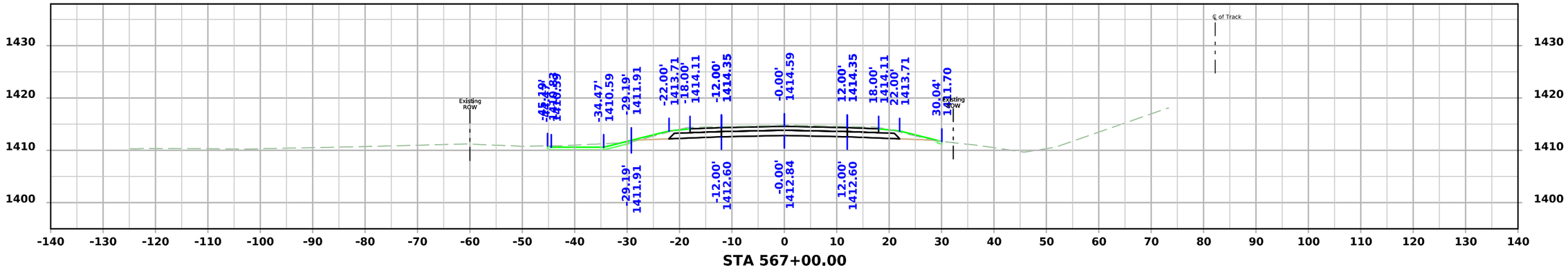


STA 565+75.00

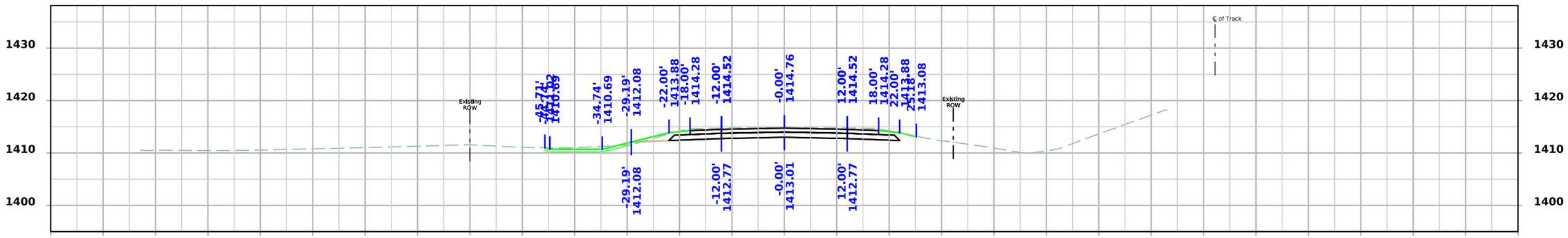
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.53**

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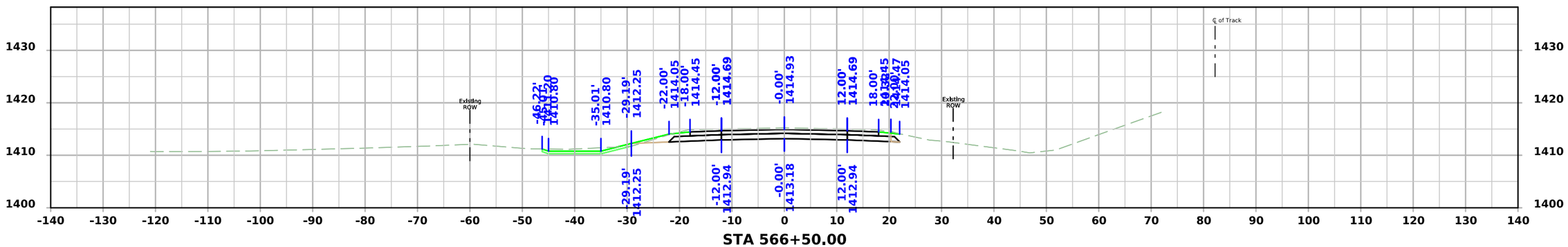
IA 7



STA 567+00.00



STA 566+75.00

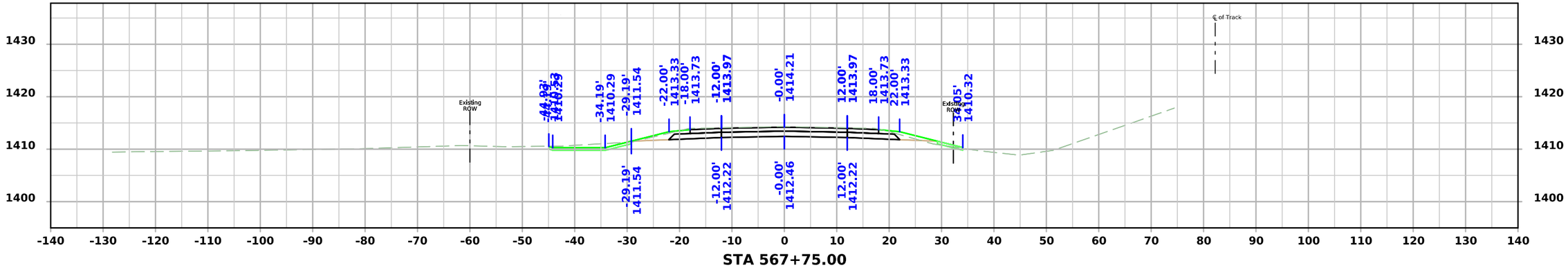


STA 566+50.00

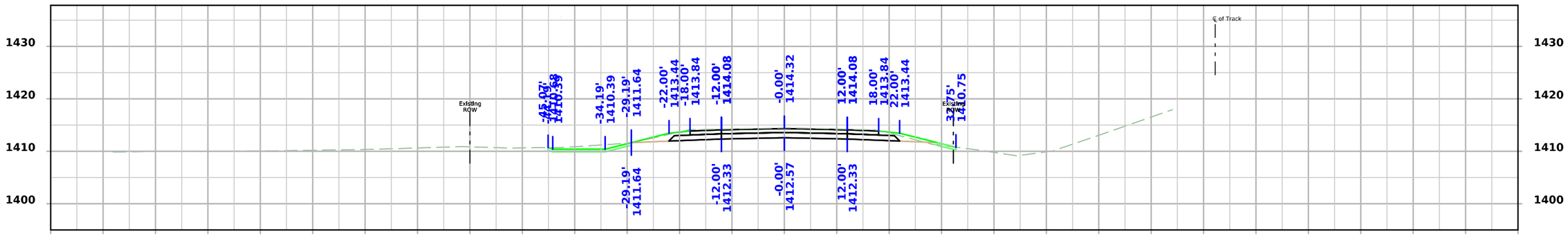
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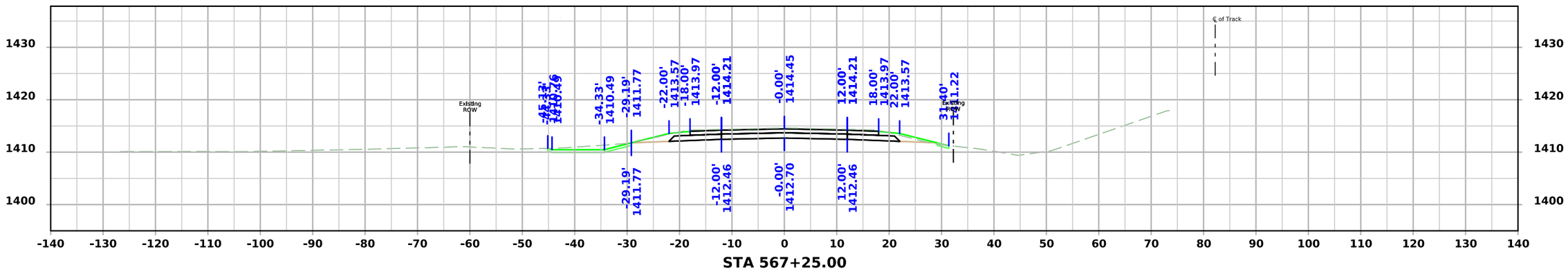
IA 7



STA 567+75.00



STA 567+50.00

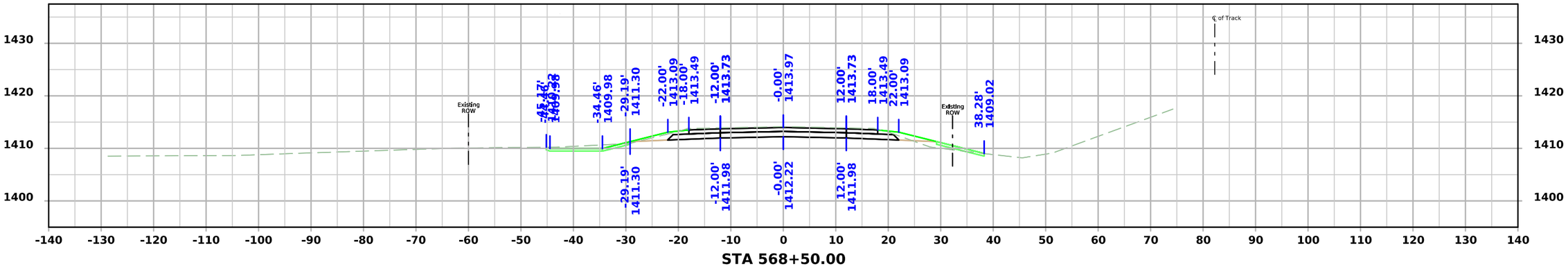


STA 567+25.00

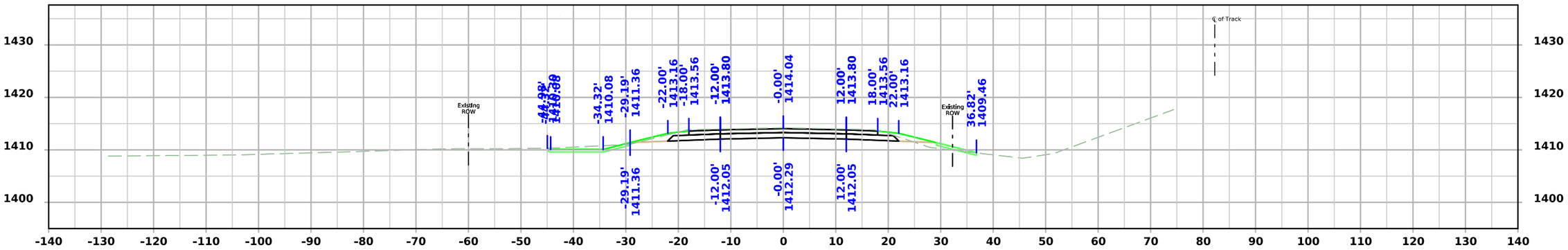
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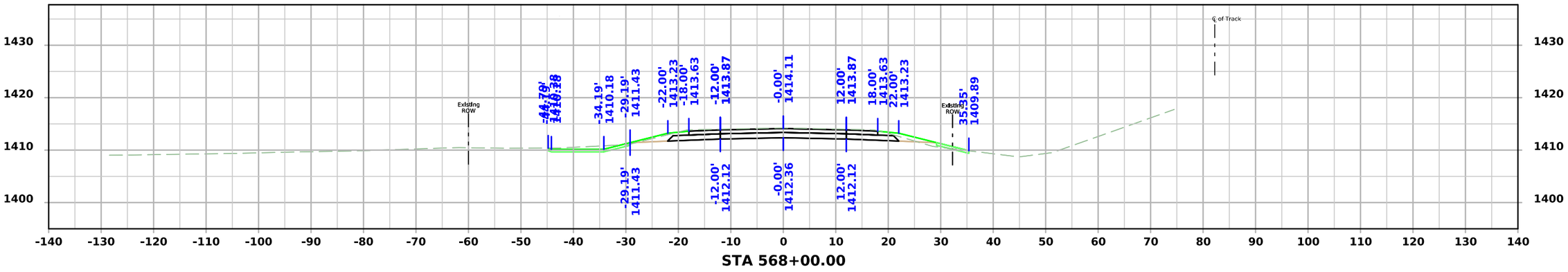
IA 7



STA 568+50.00



STA 568+25.00

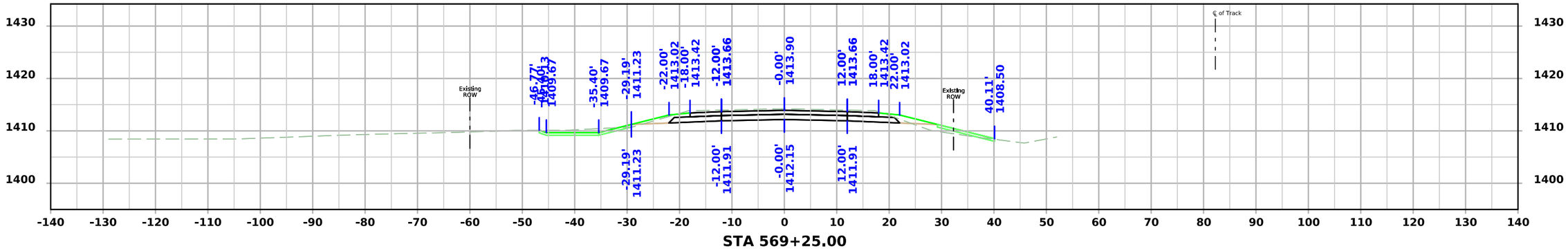


STA 568+00.00

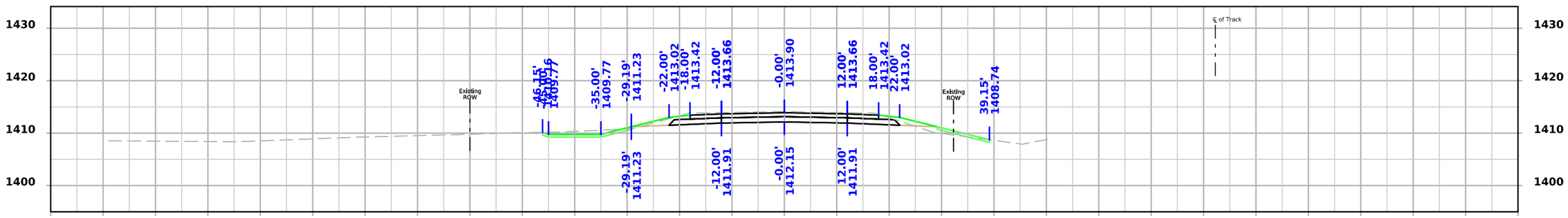
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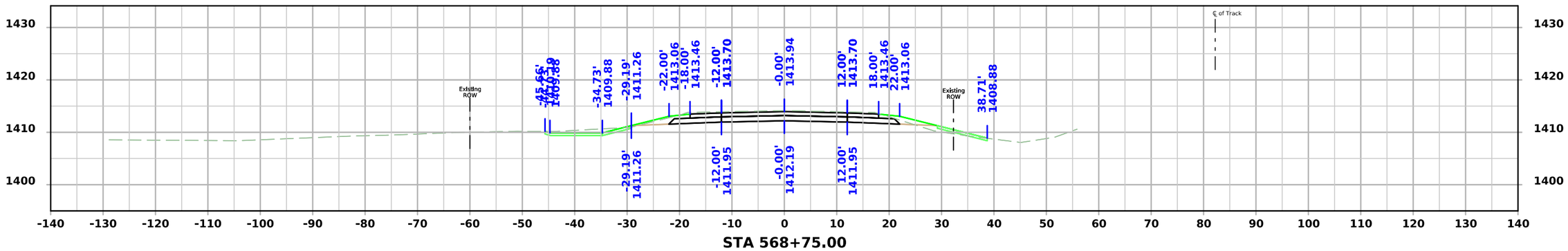
IA 7



STA 569+25.00



STA 569+00.00

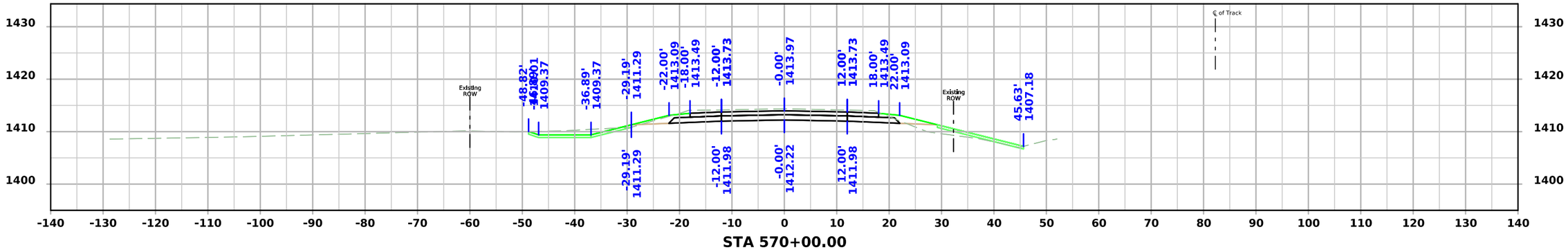


STA 568+75.00

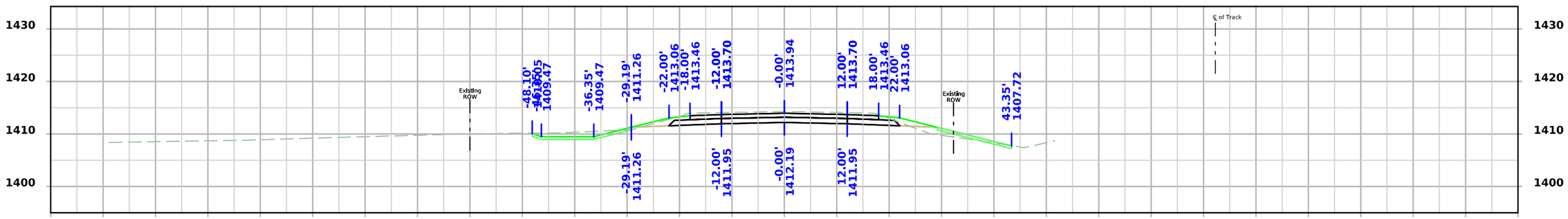
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.57**

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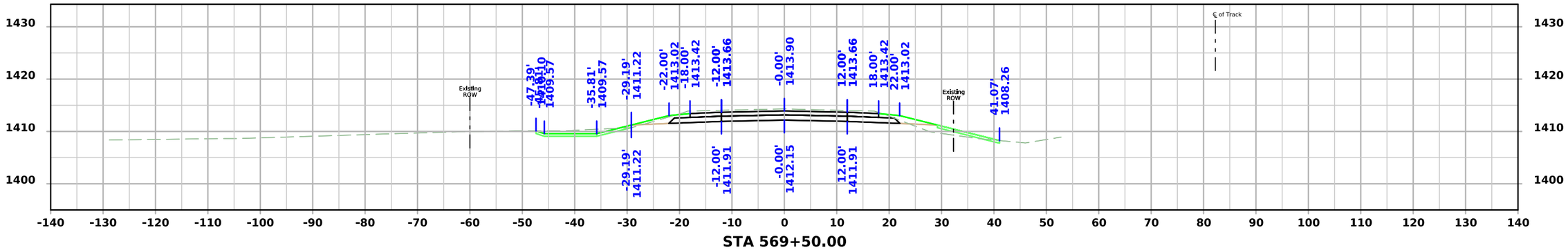
IA 7



STA 570+00.00



STA 569+75.00

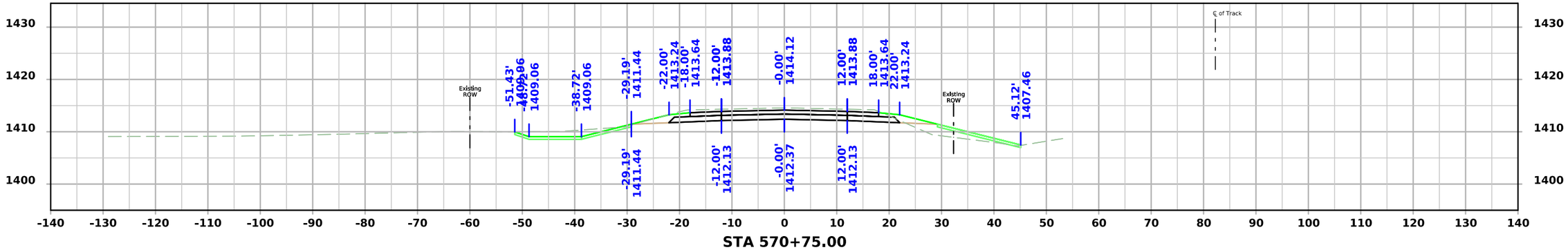


STA 569+50.00

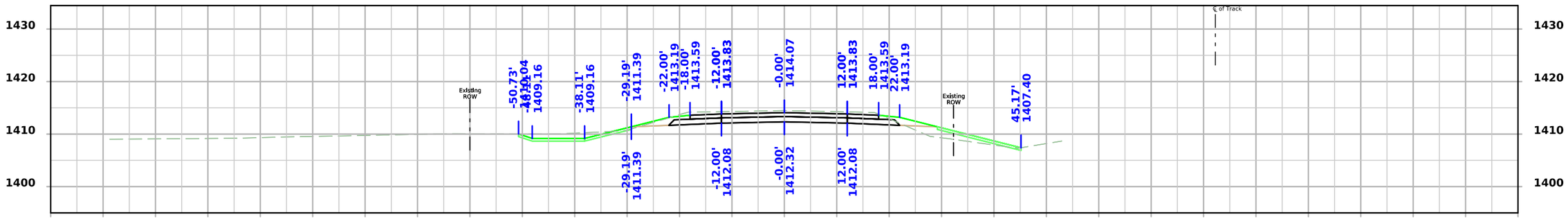
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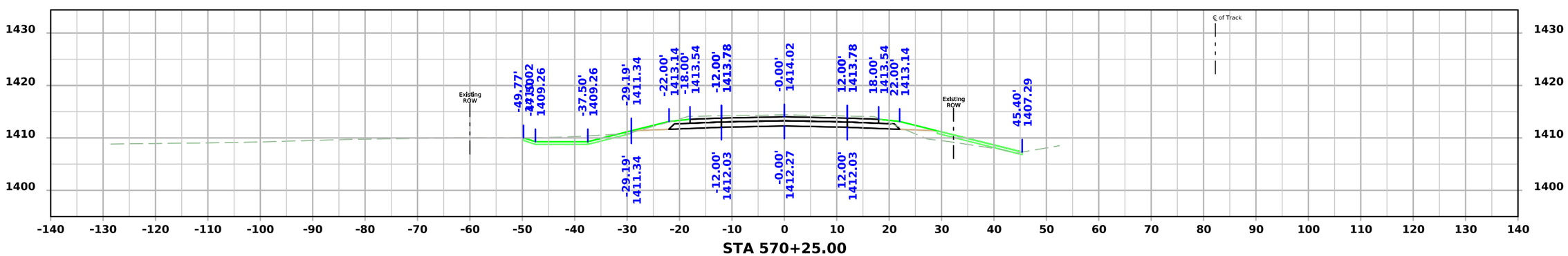
IA 7



STA 570+75.00



STA 570+50.00

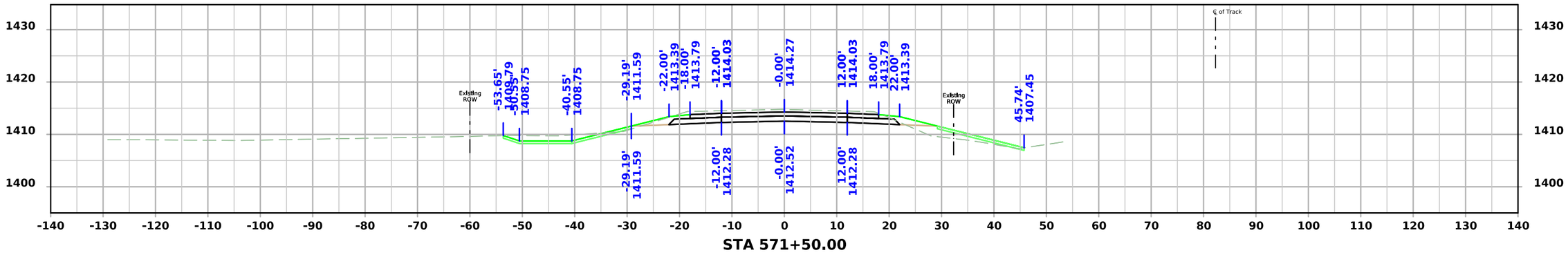


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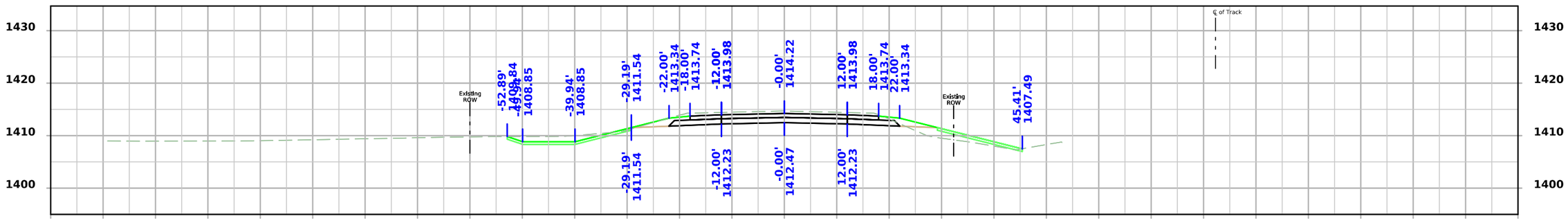
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4:36:00 PM 6/23/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_ML007_11007038Z04.dgn

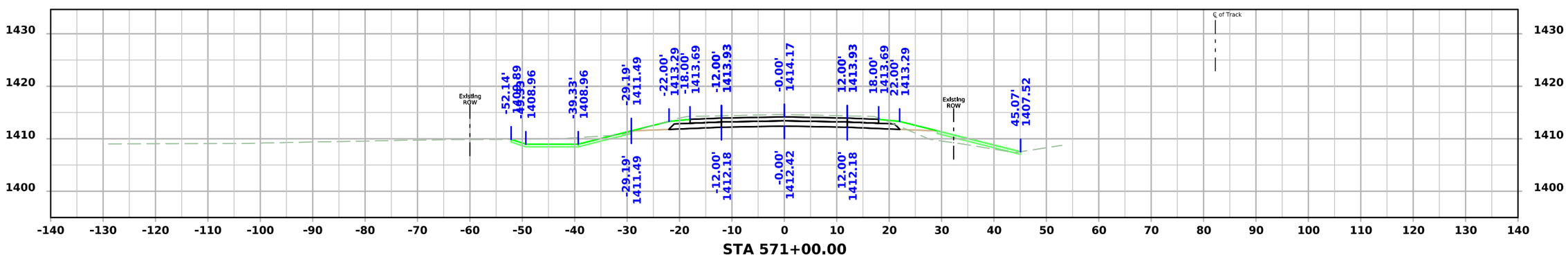
IA 7



STA 571+50.00



STA 571+25.00

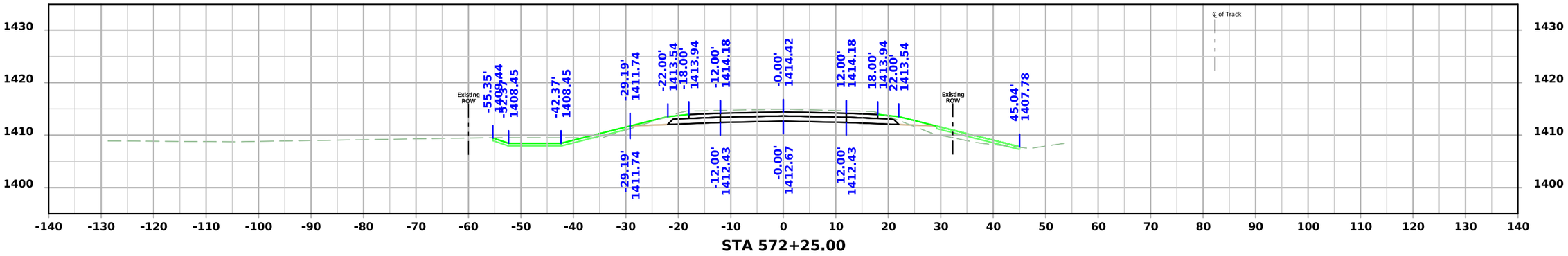


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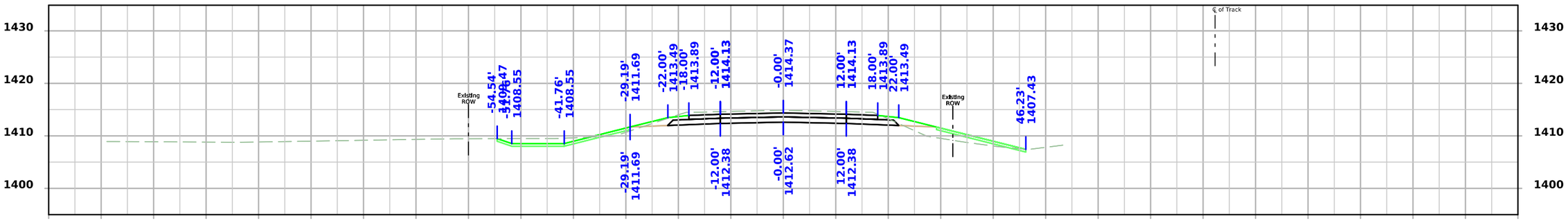
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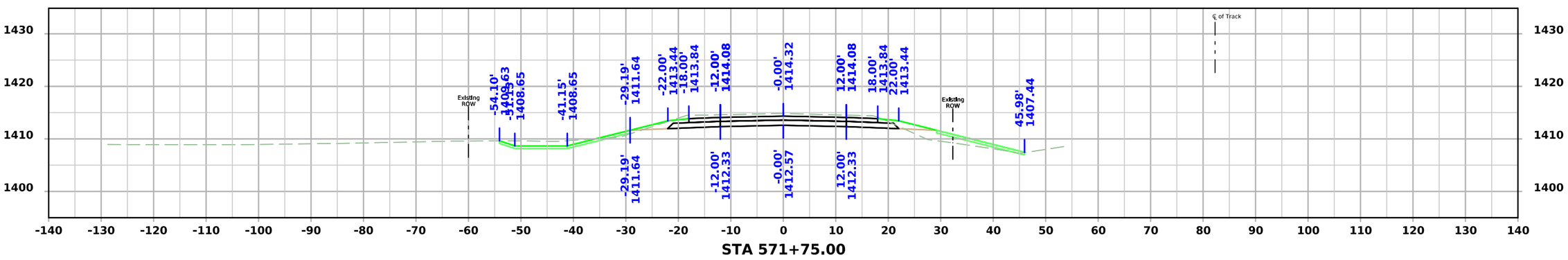
IA 7



STA 572+25.00



STA 572+00.00

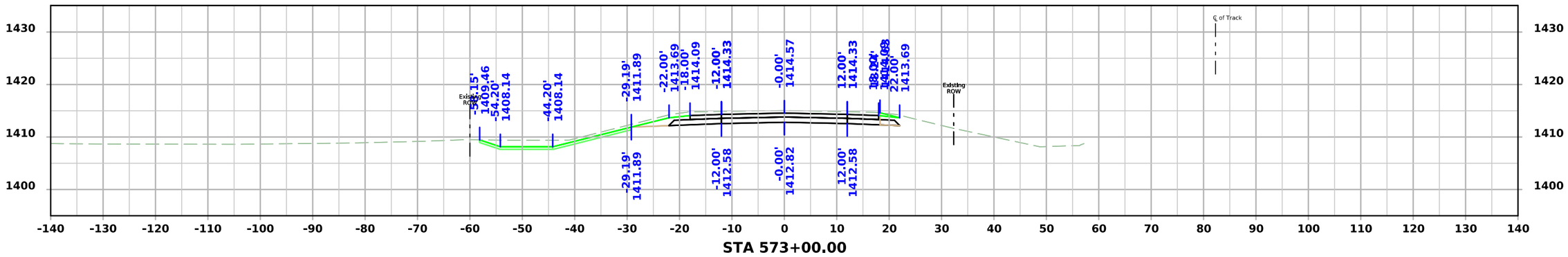


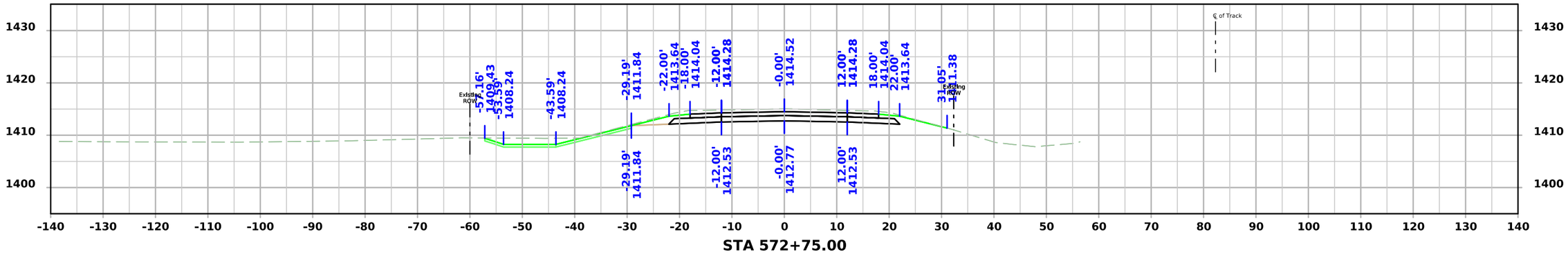
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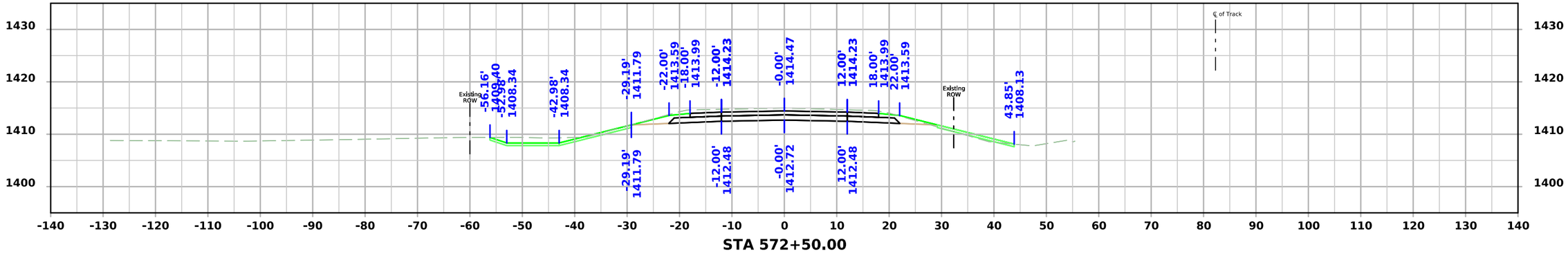
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.61**

4:36:04 PM 6/23/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_ML007_11007038Z04.dgn

IA 7



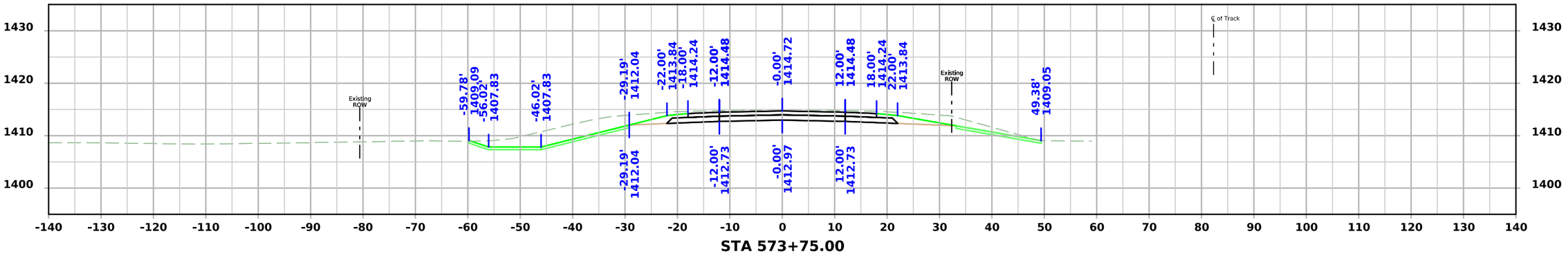




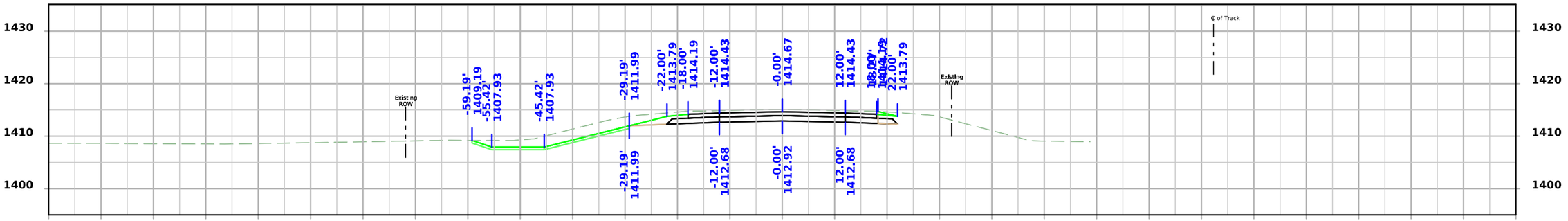
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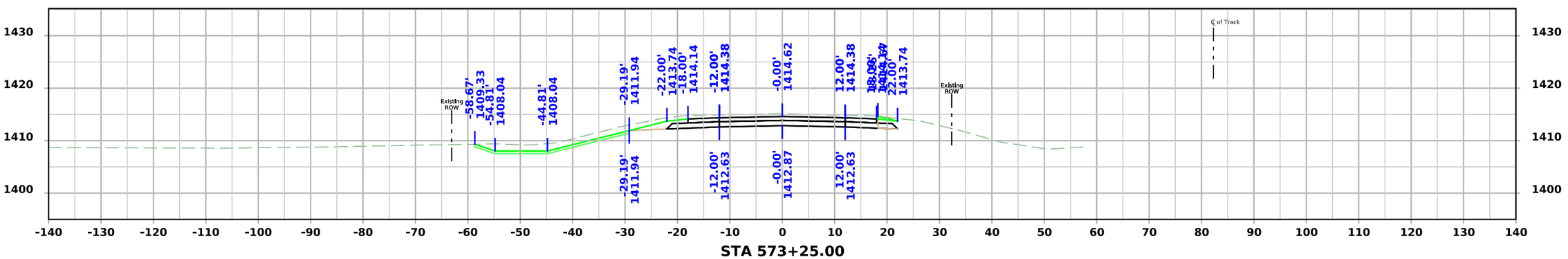
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STA 573+75.00



STA 573+50.00

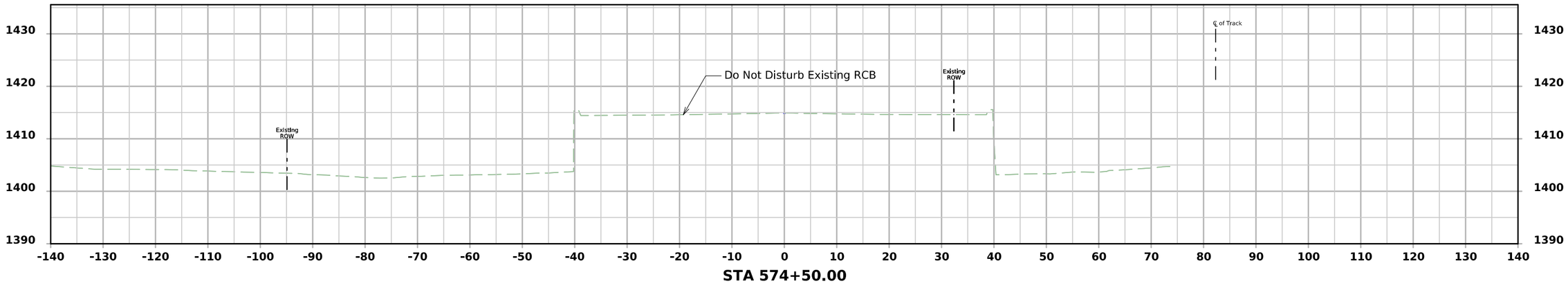


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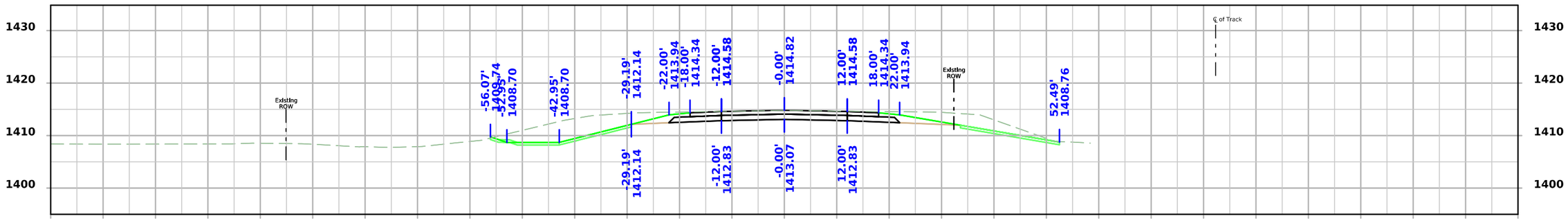
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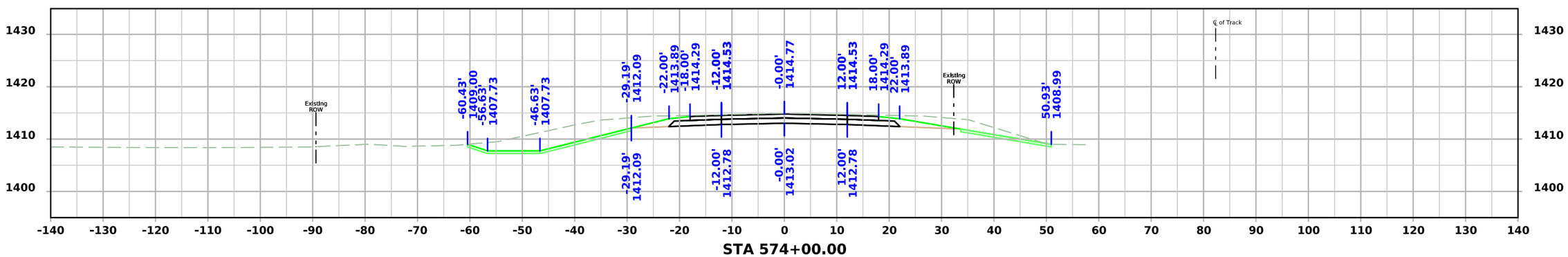
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STA 574+25.00

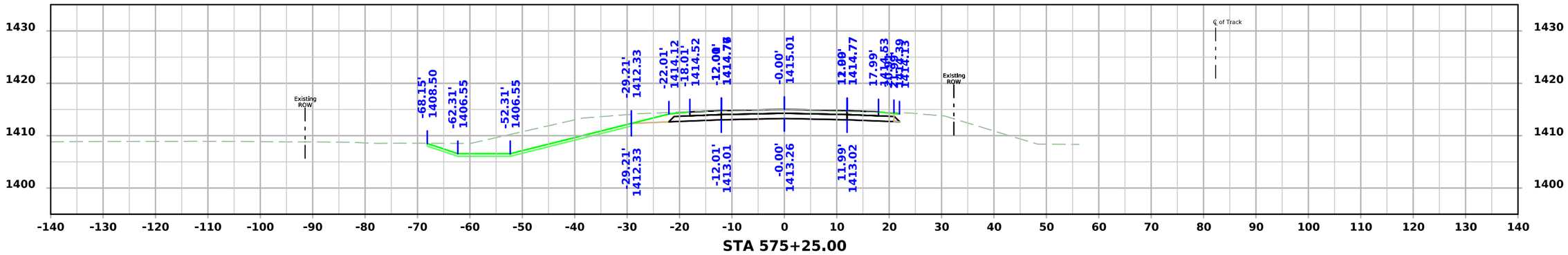


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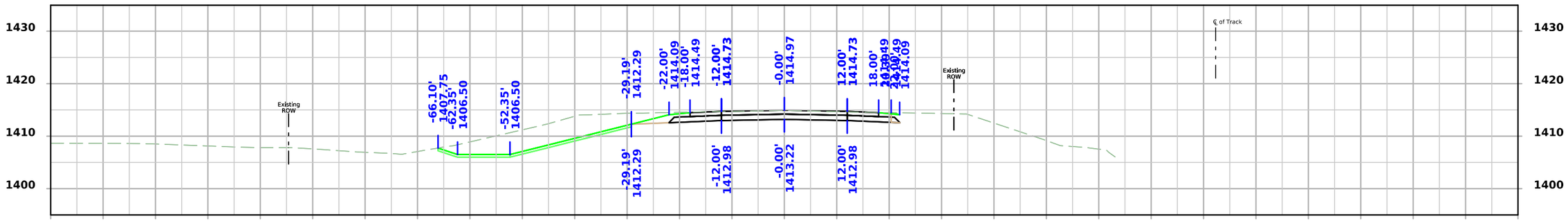
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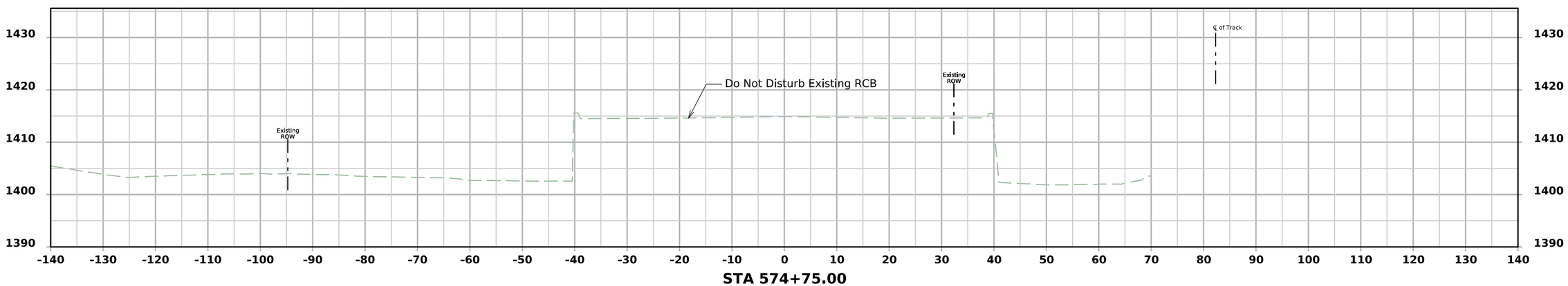
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STA 575+25.00



STA 575+00.00

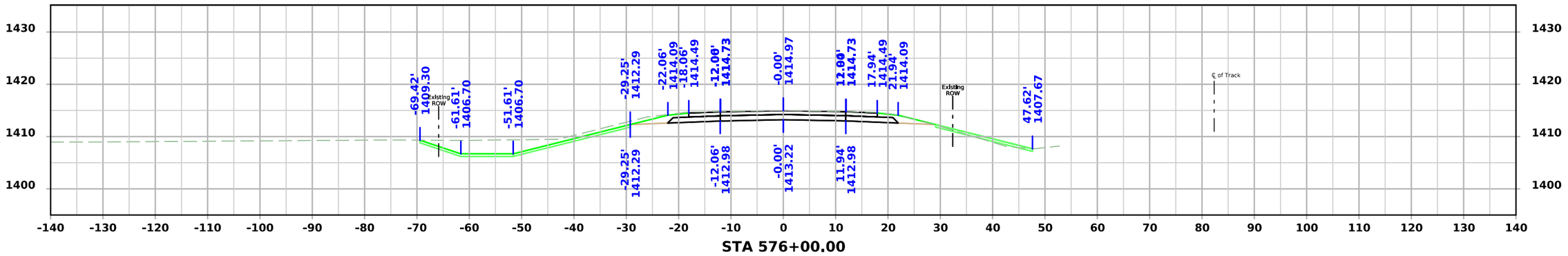


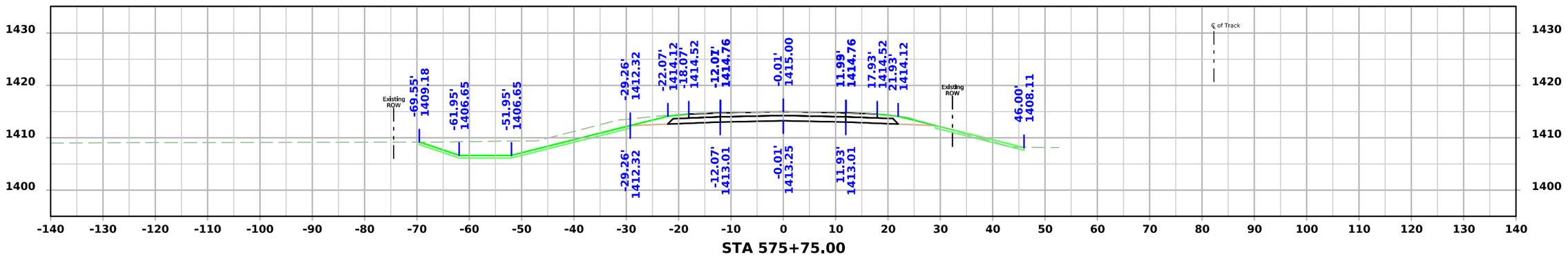
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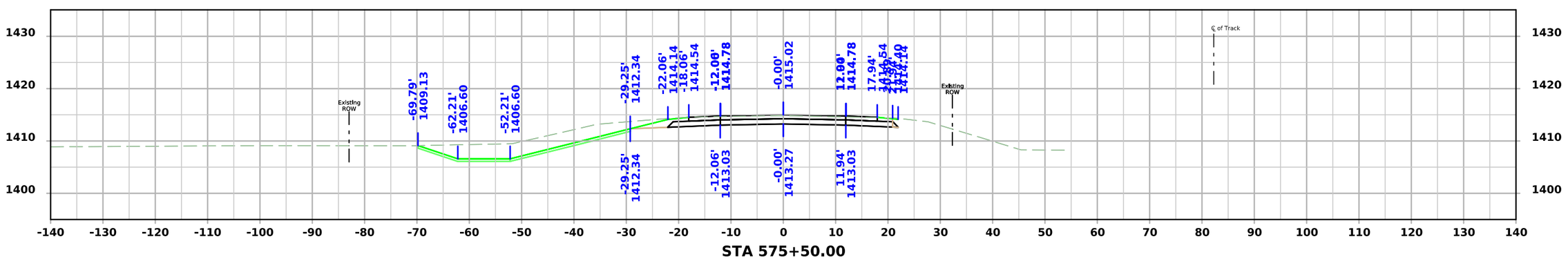
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IA 7



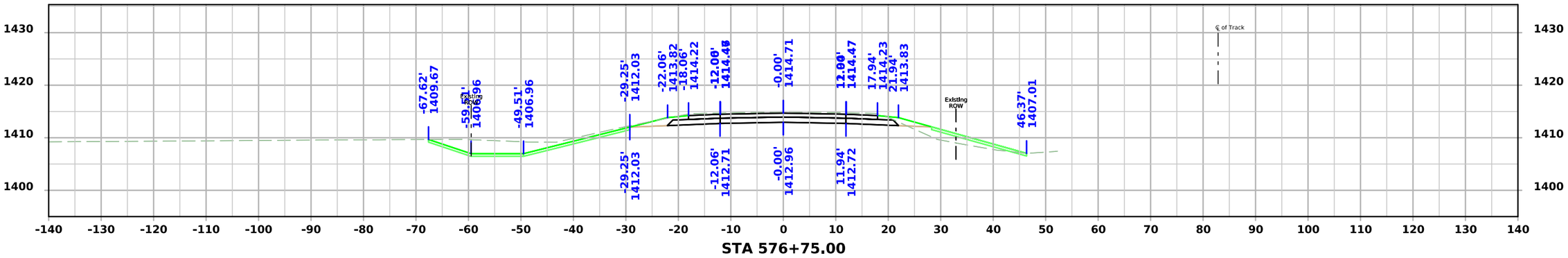




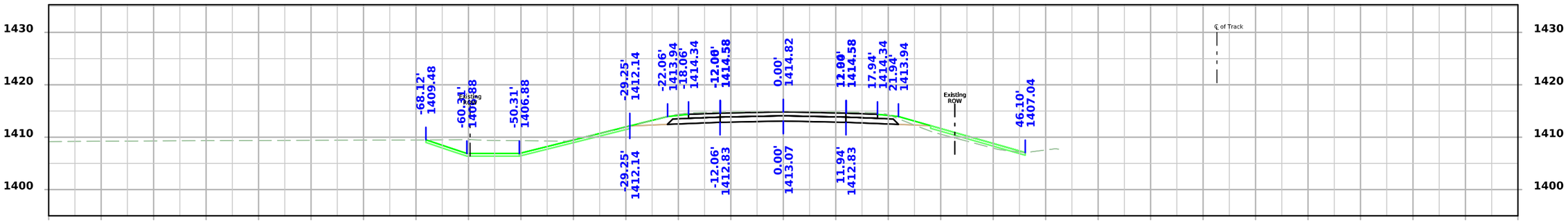
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.66**

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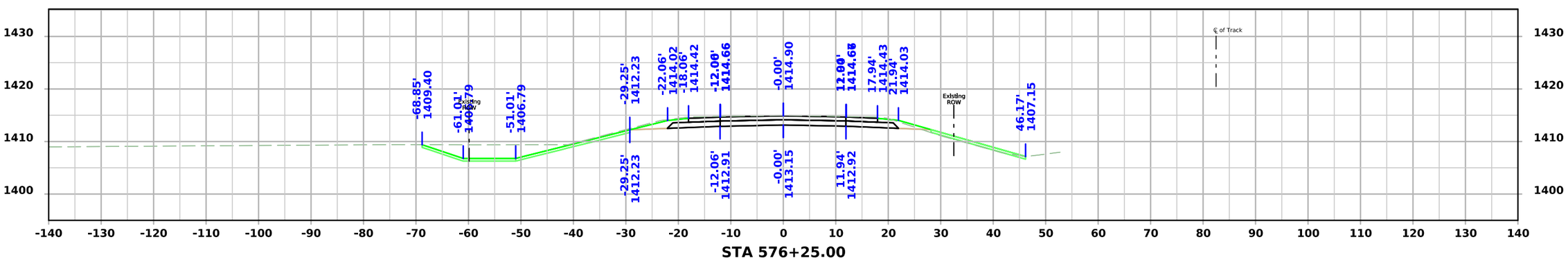
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STA 576+75.00



STA 576+50.00

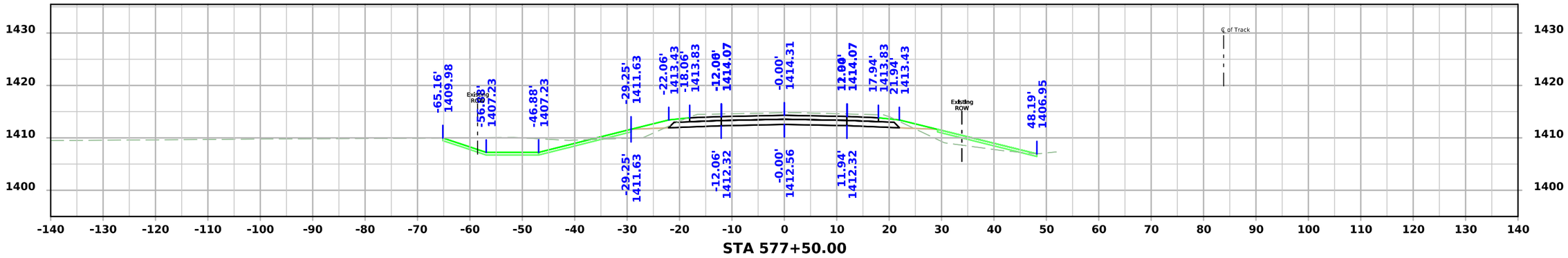


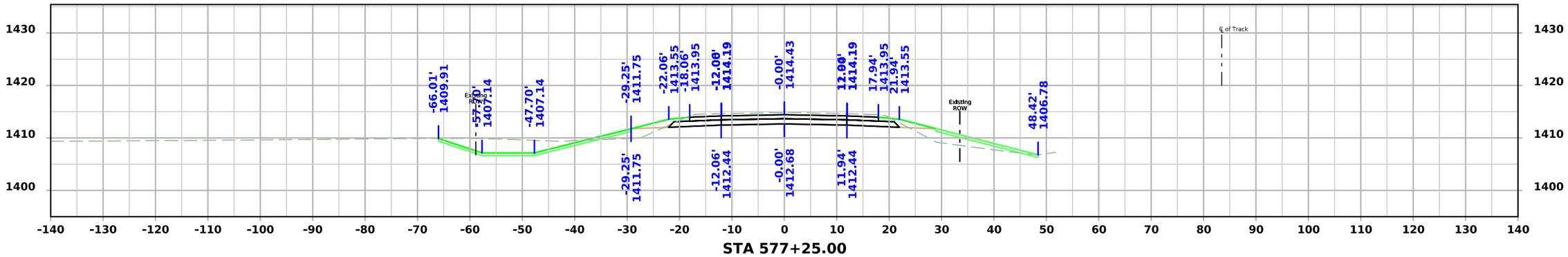
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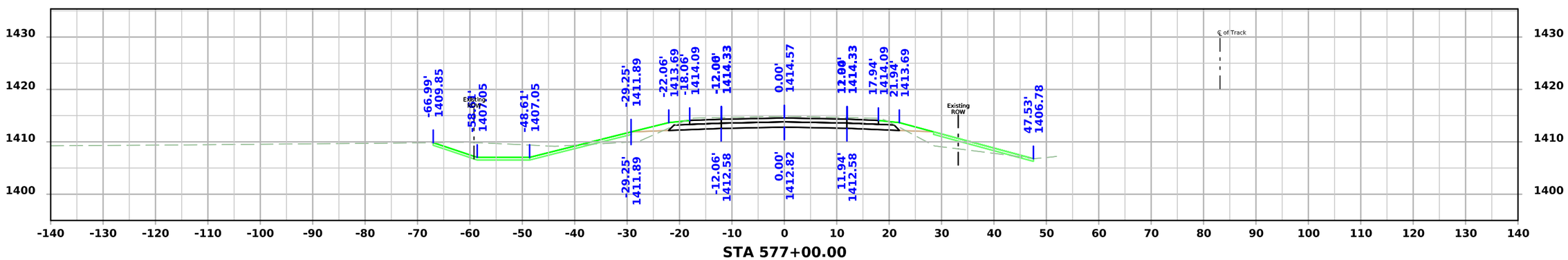
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IA 7



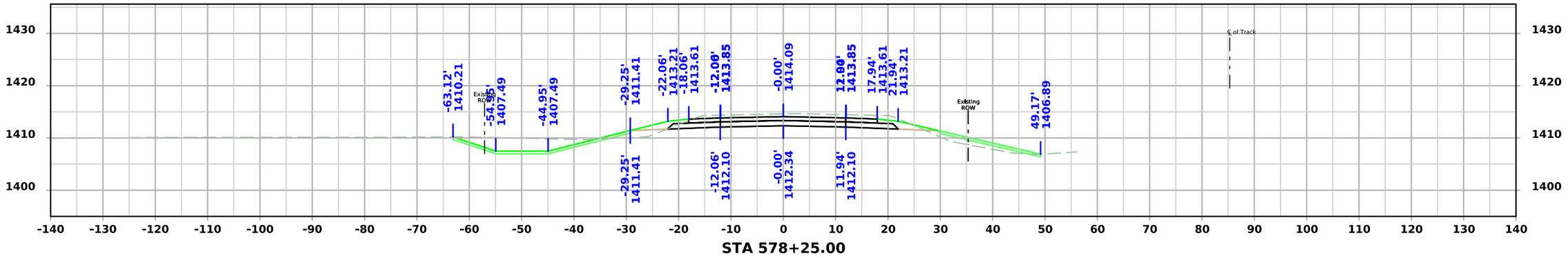


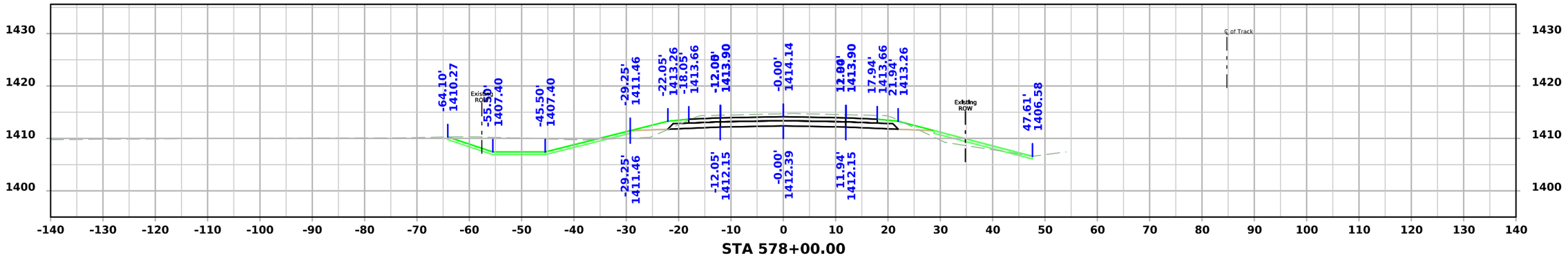


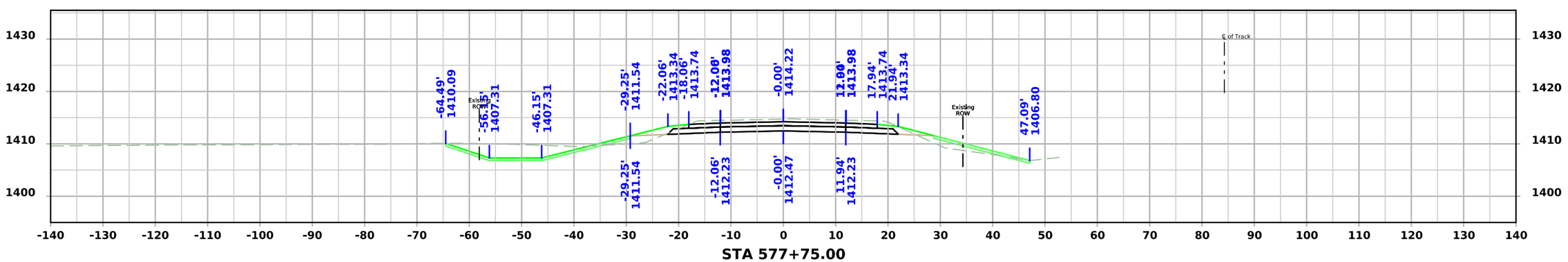
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IA 7



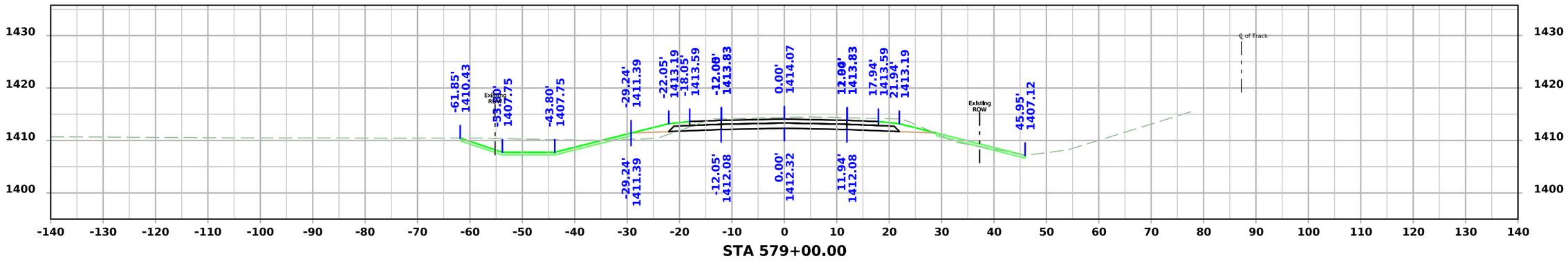




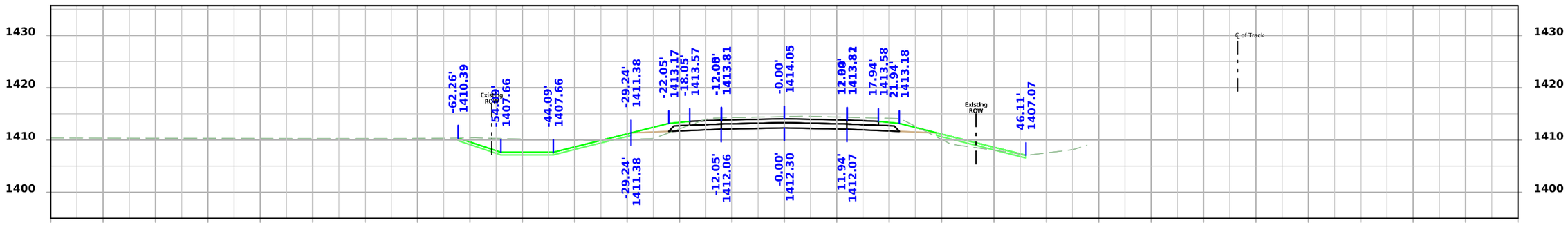
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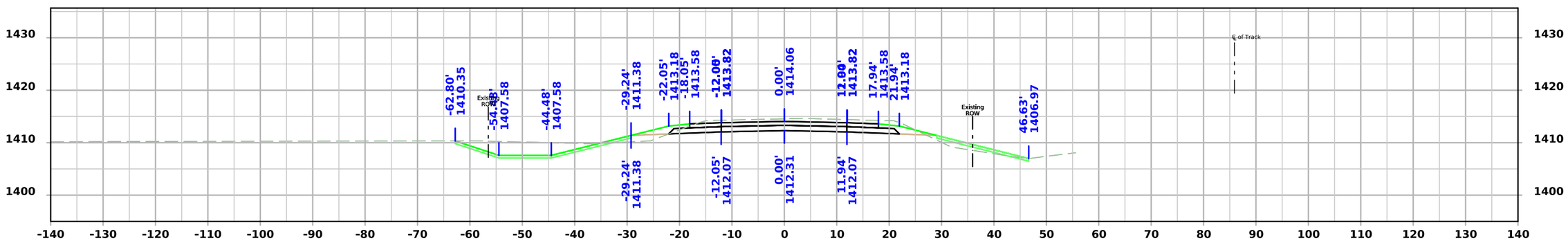
IA 7



STA 579+00.00



STA 578+75.00

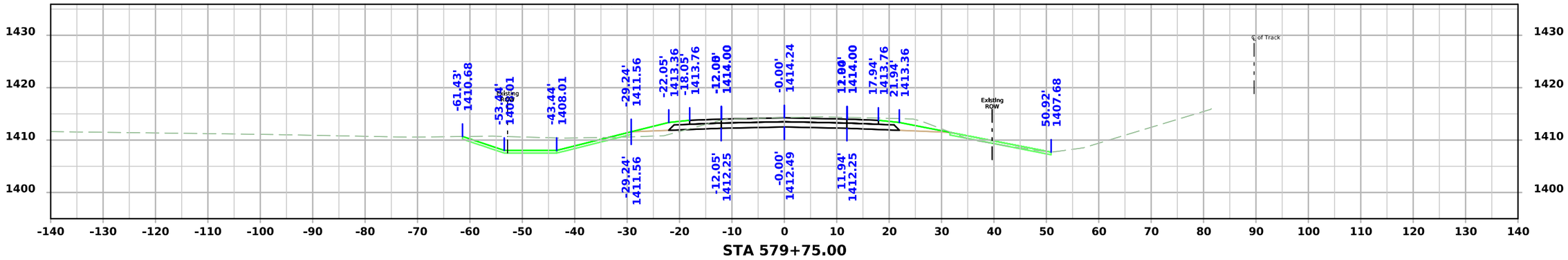


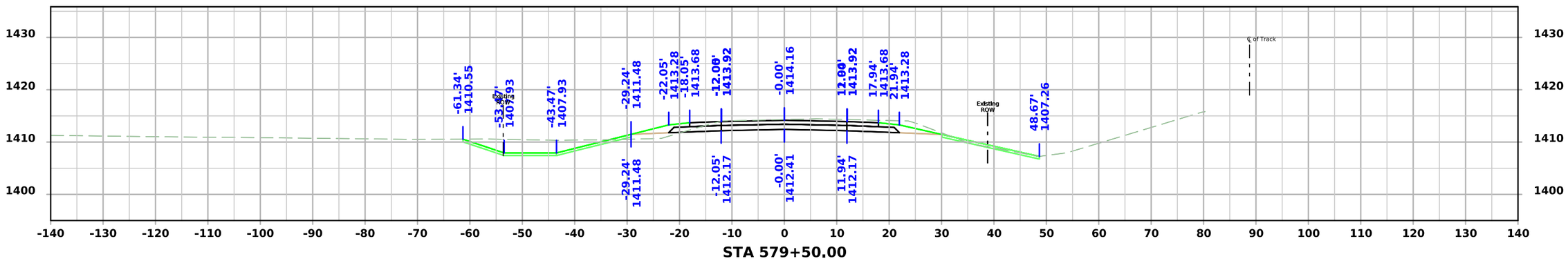
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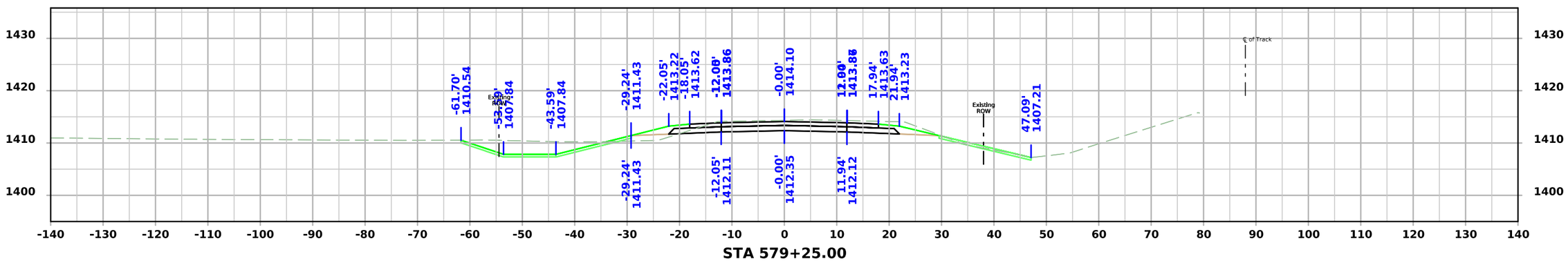
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IA 7



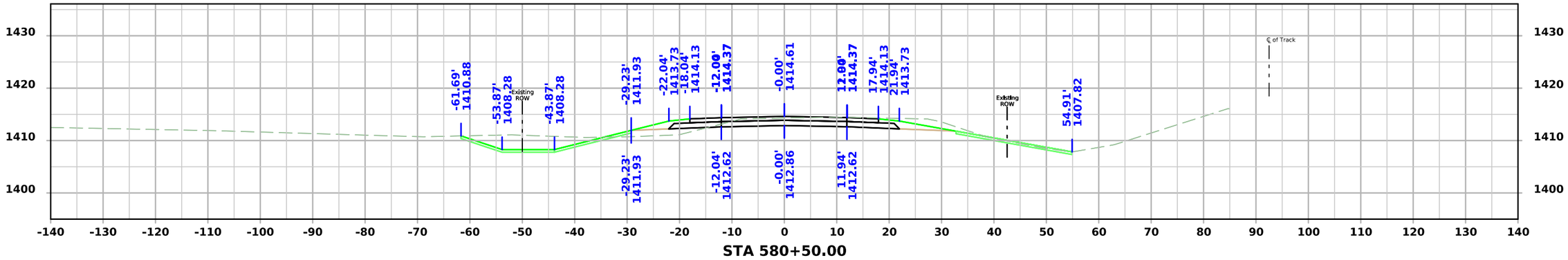


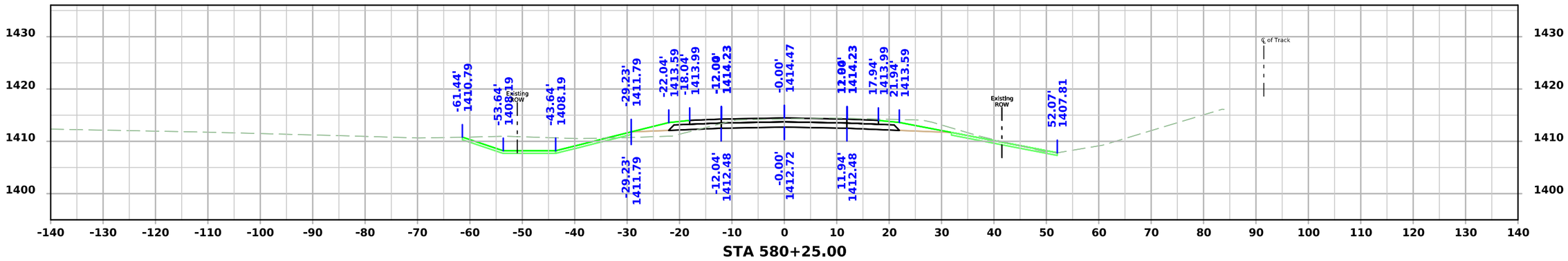


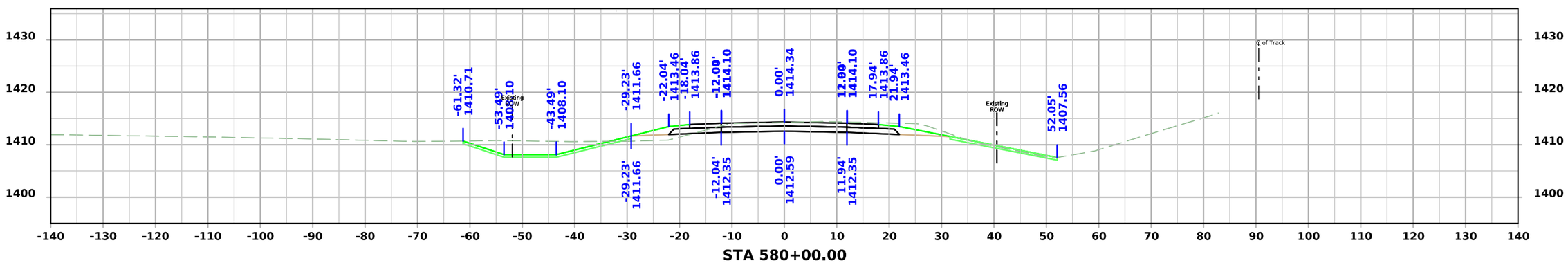
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IA 7



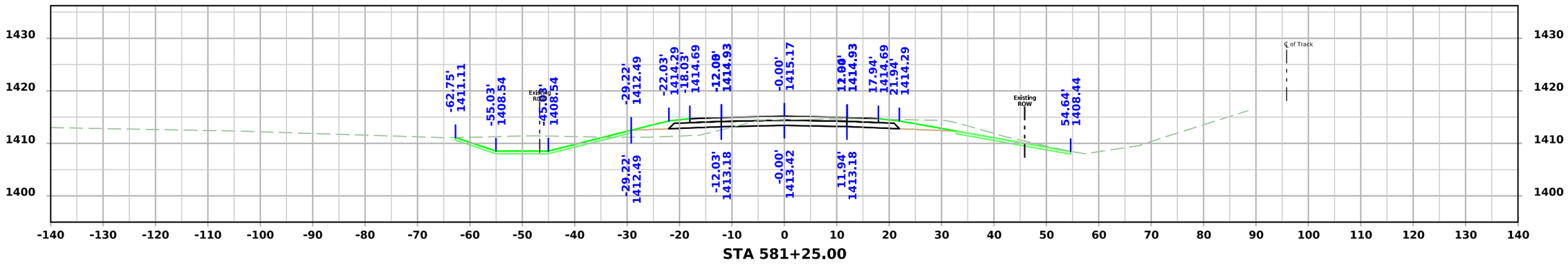




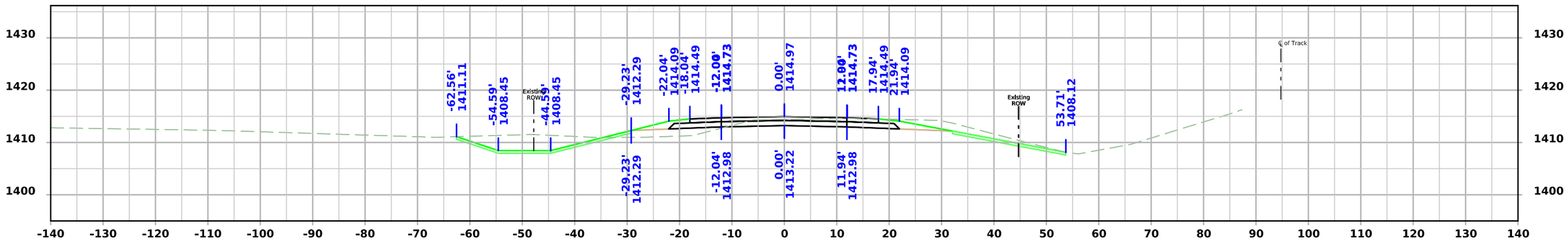
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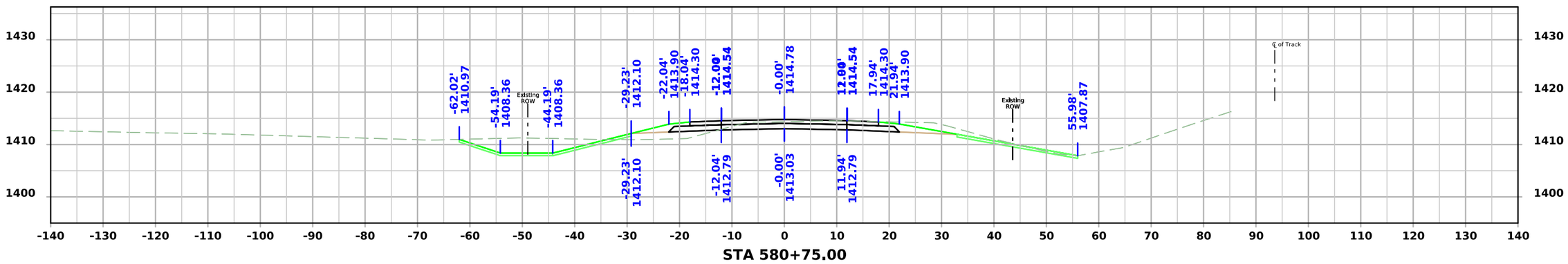
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STA 581+25.00



STA 581+00.00

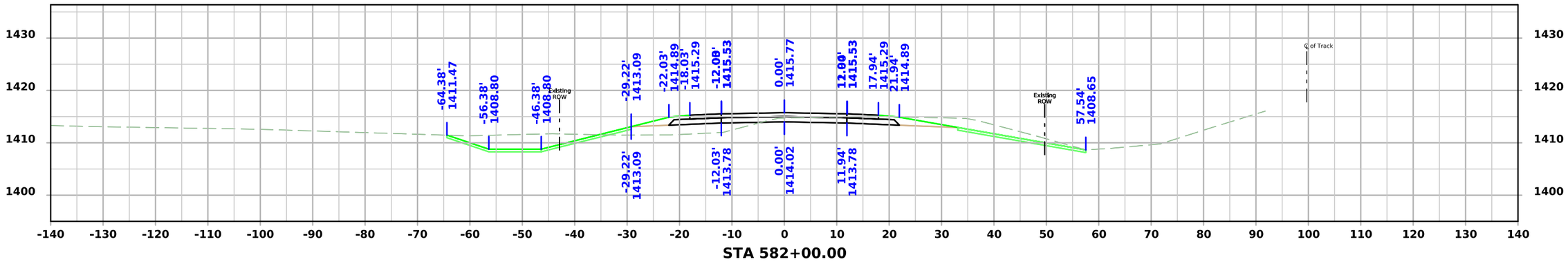


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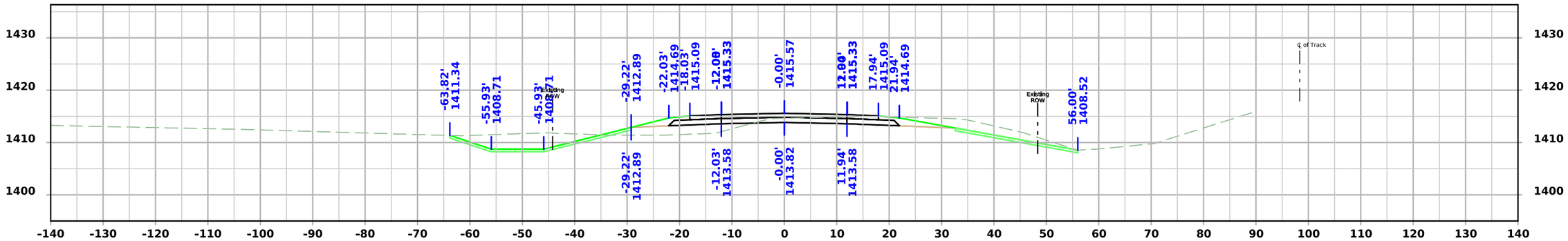
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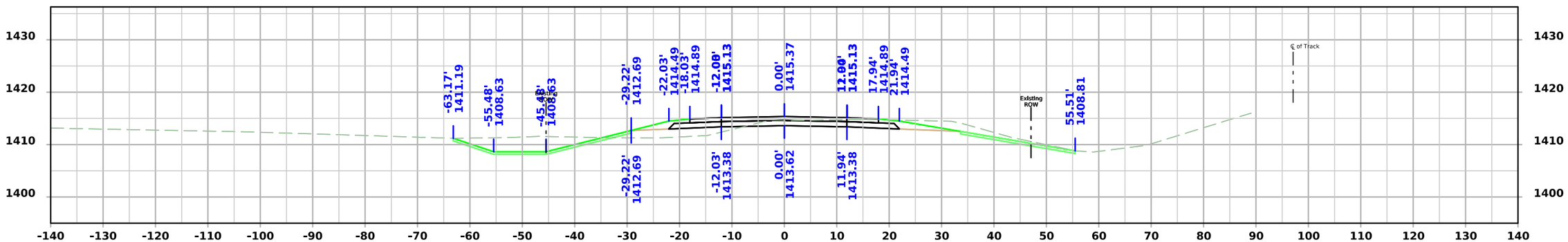
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STA 582+00.00



STA 581+75.00

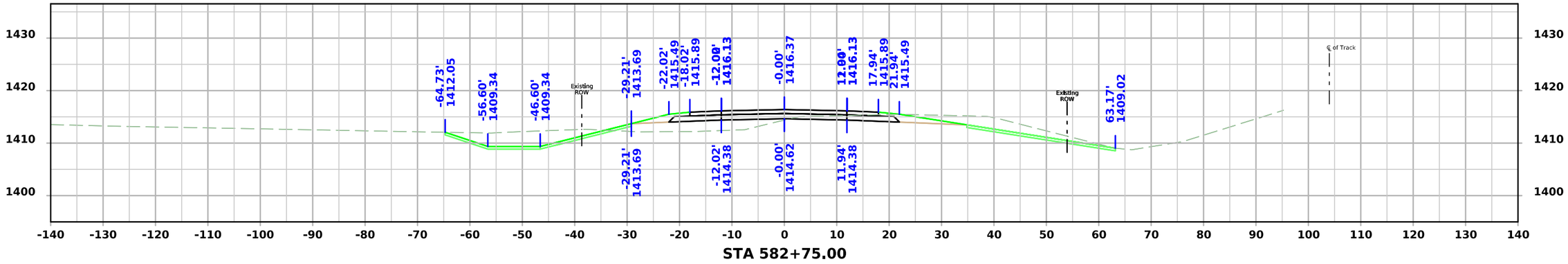


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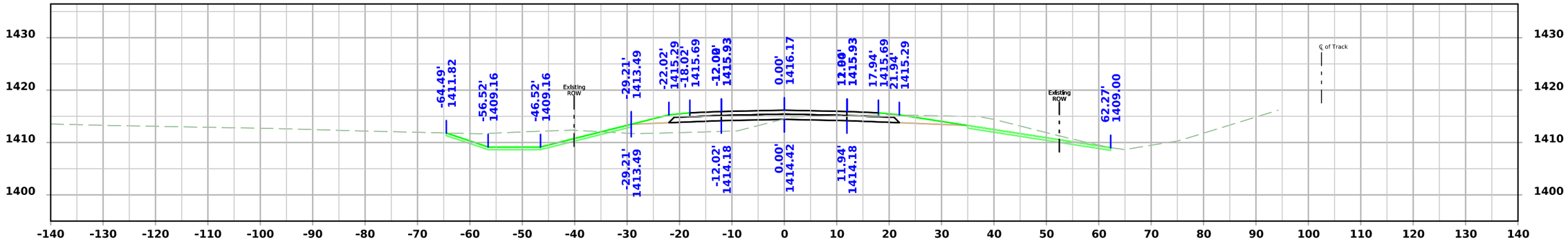
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.74**

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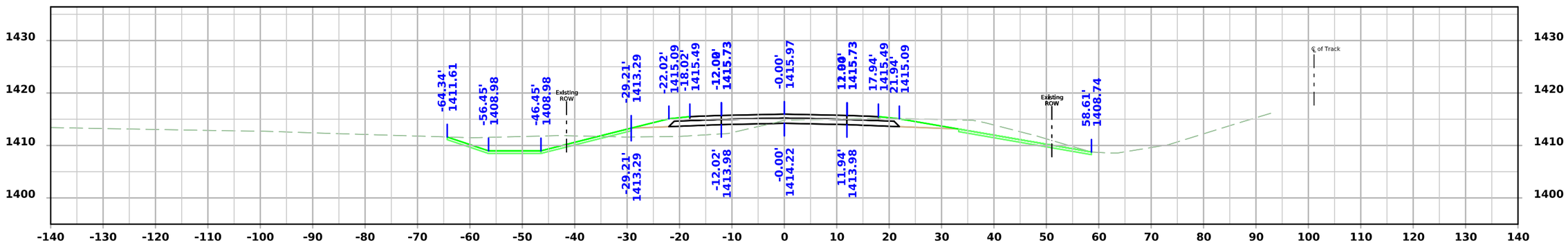
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STA 582+75.00



STA 582+50.00

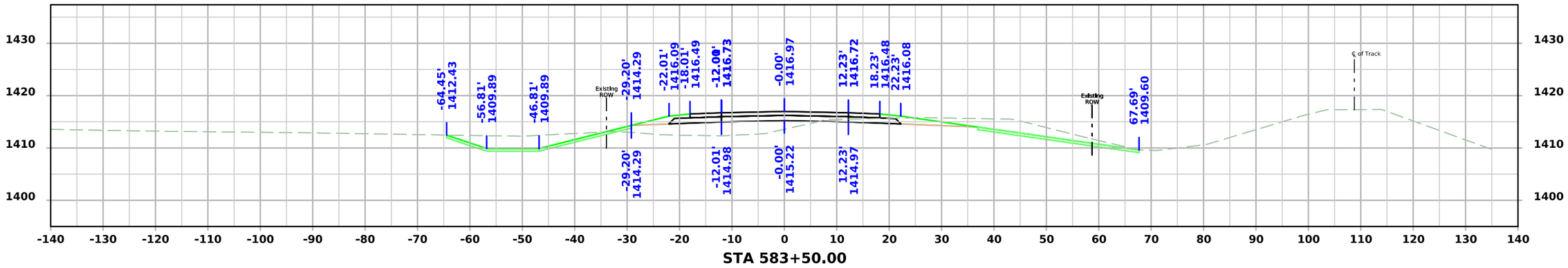


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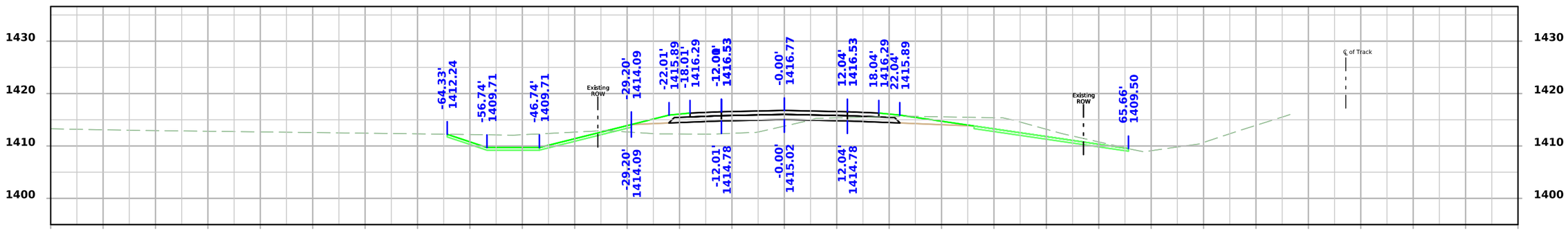
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.75**

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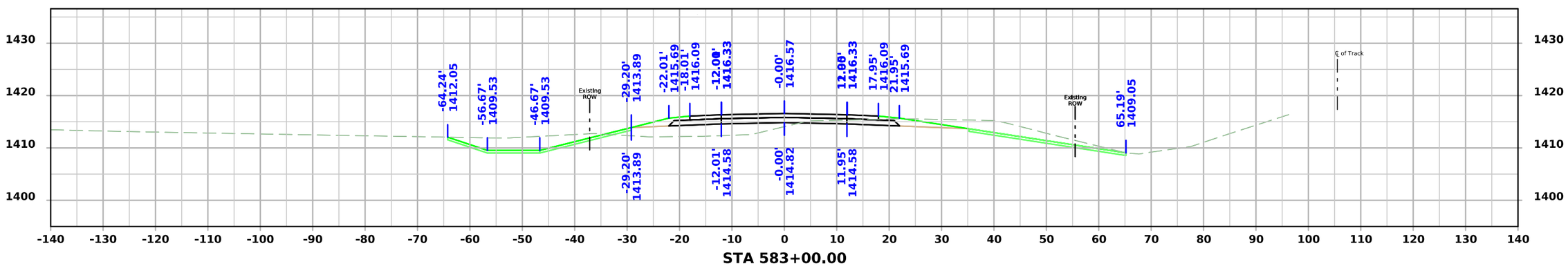
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STA 583+50.00



STA 583+25.00

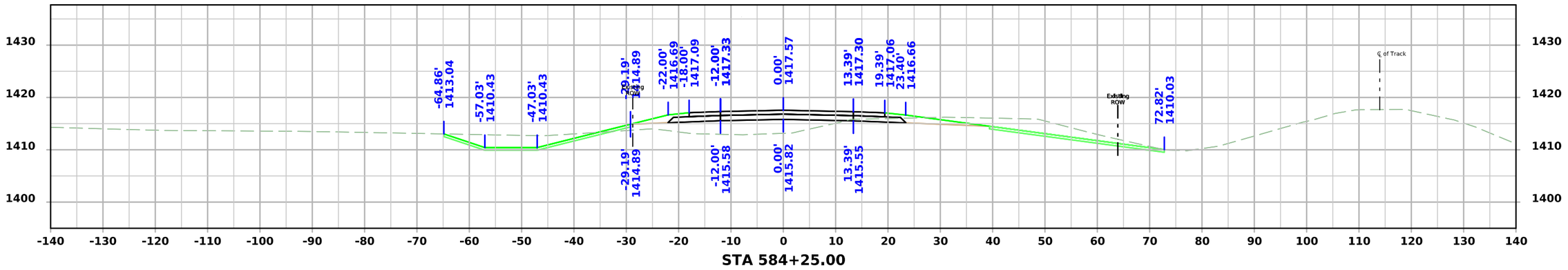


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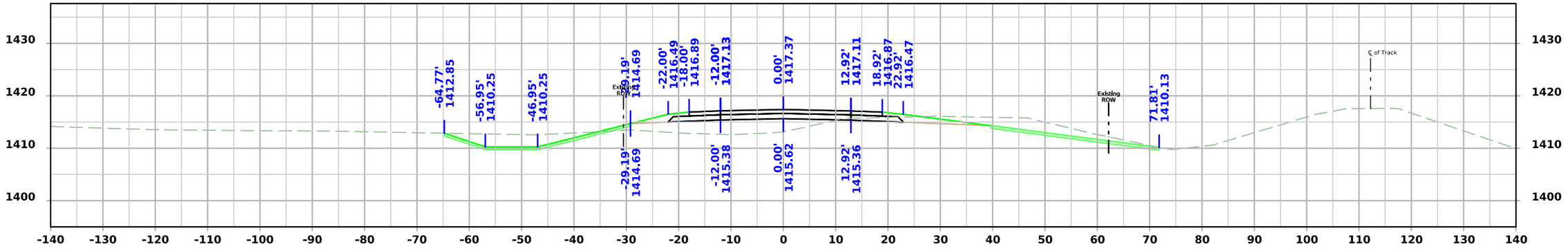
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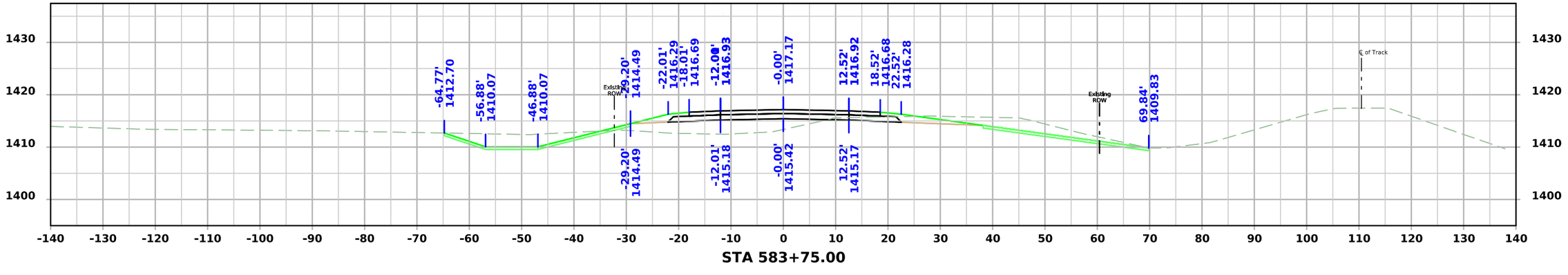
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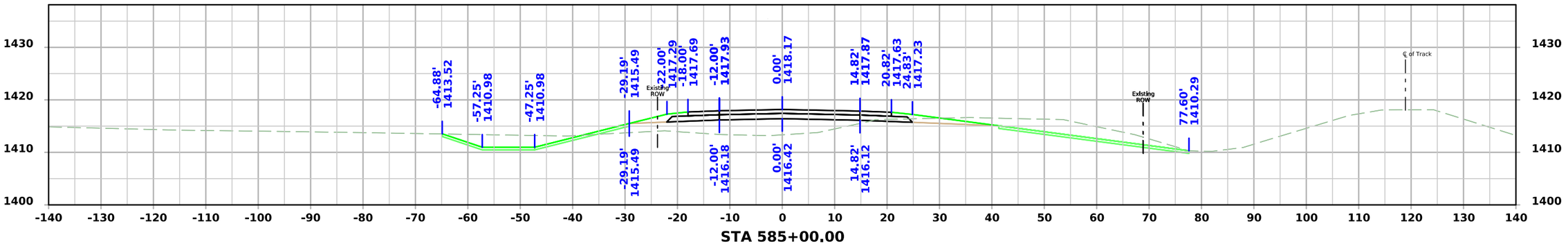


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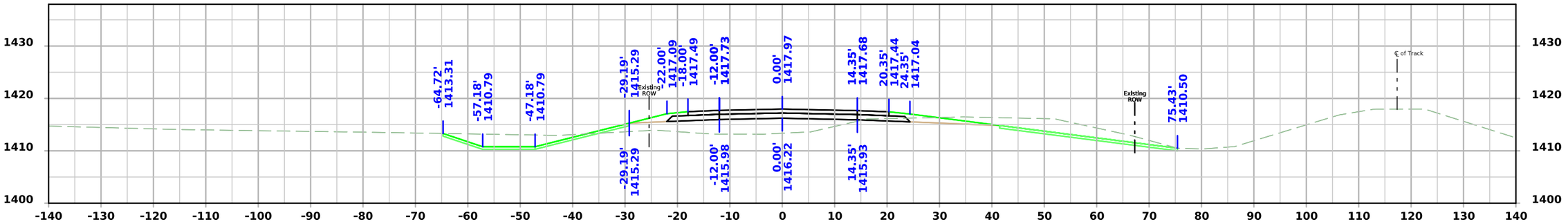
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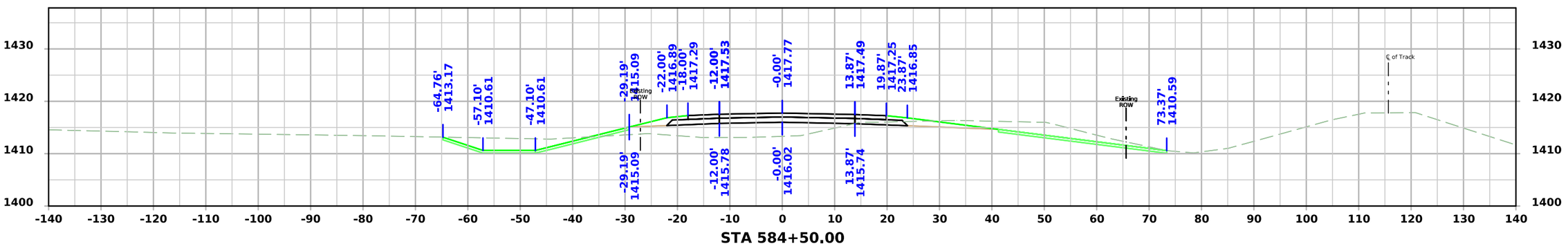
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STA 585+00.00



STA 584+75.00

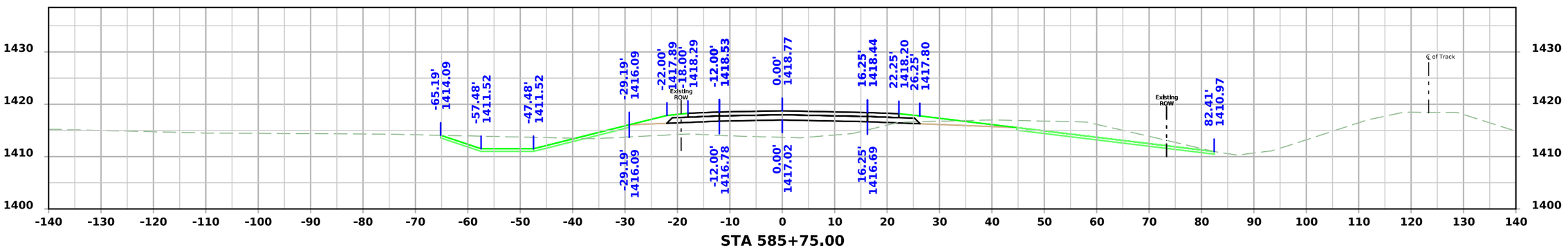


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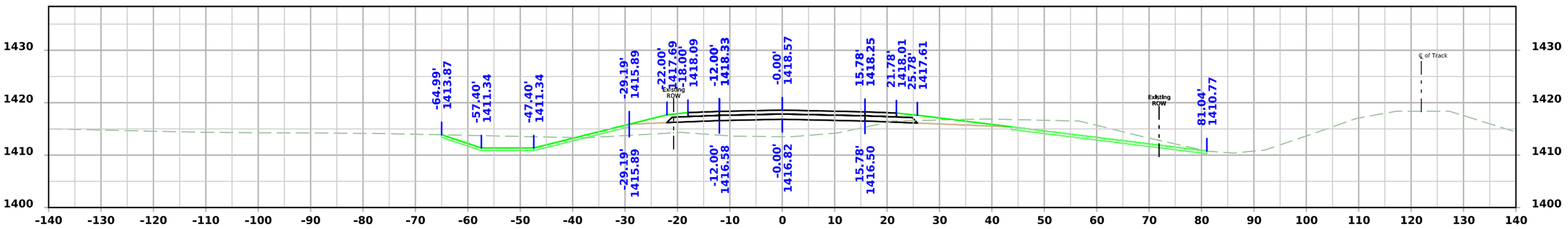
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.78**

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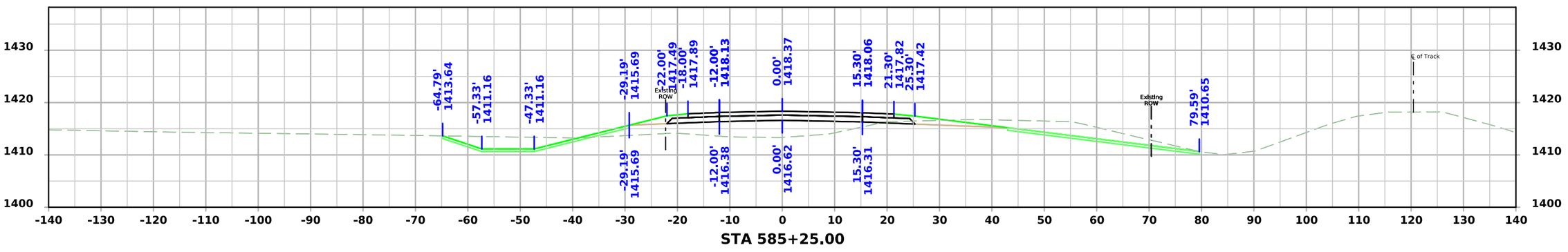
IA 7



STA 585+75.00



STA 585+50.00

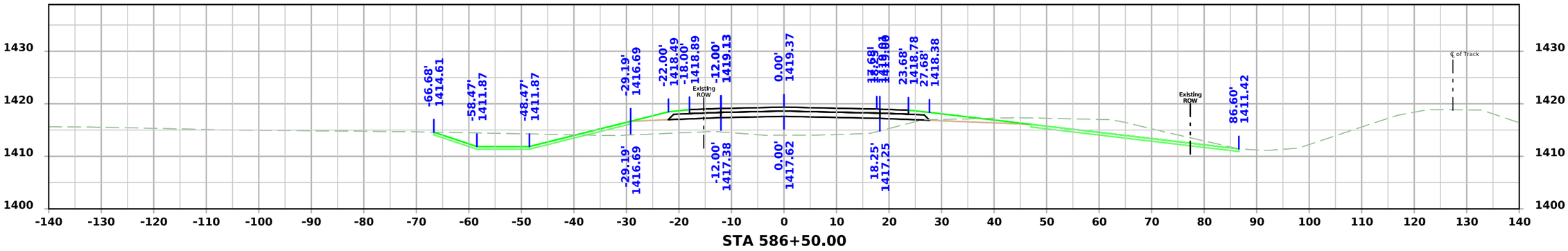


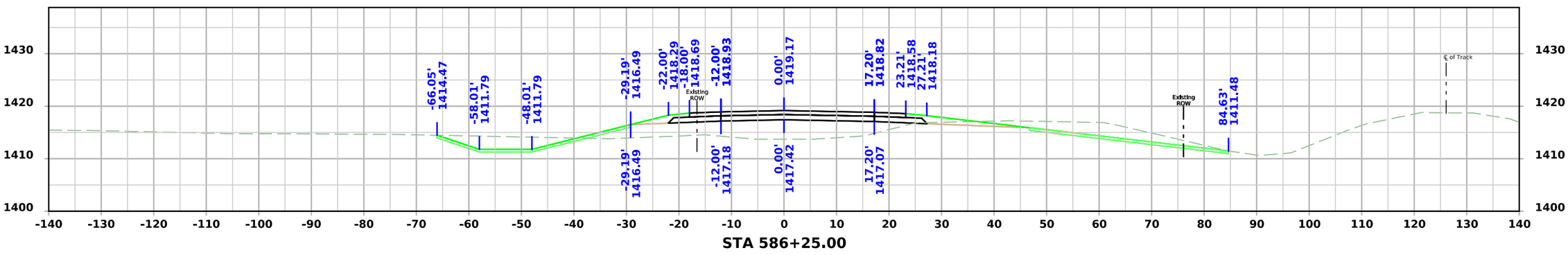
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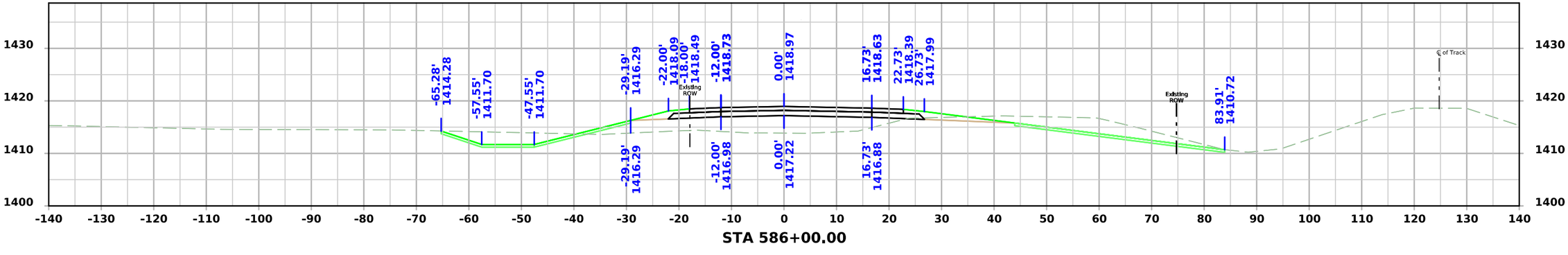
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.79**

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IA 7



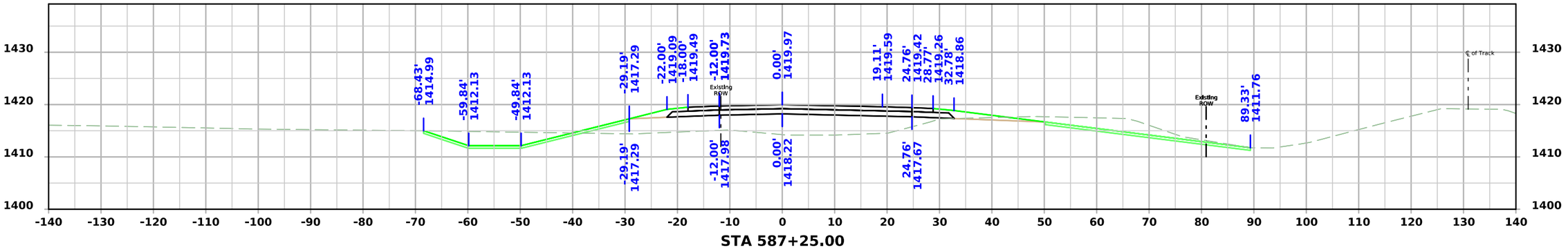




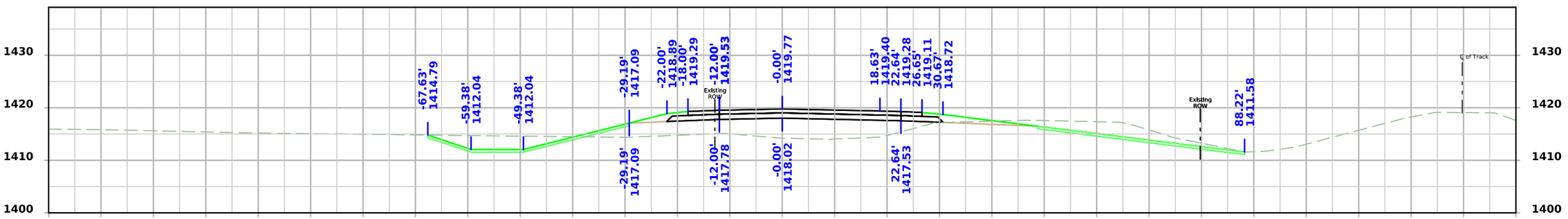
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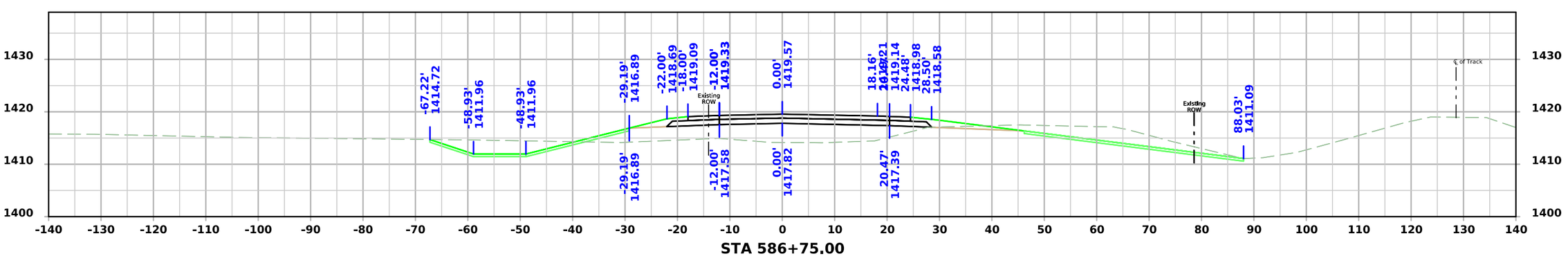
IA 7



STA 587+25.00



STA 587+00.00

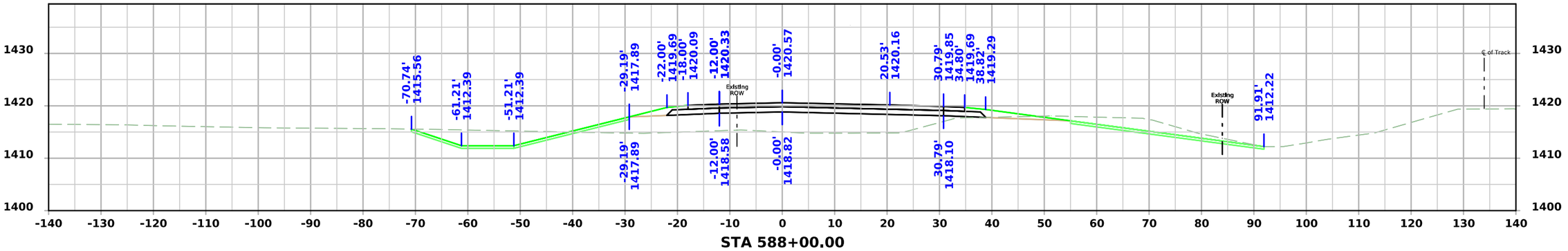


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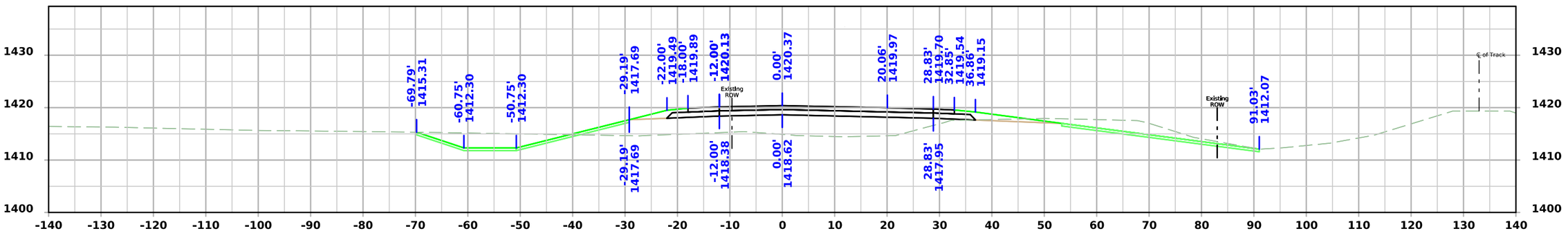
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.81**

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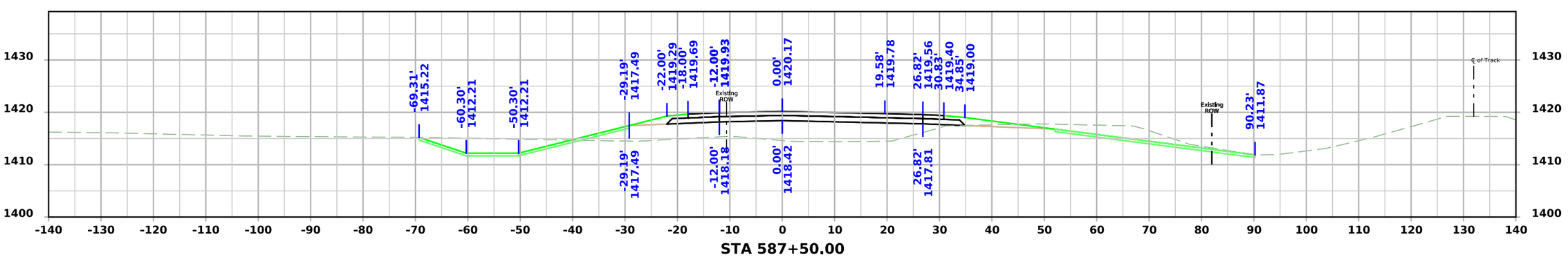
IA 7



STA 588+00.00



STA 587+75.00

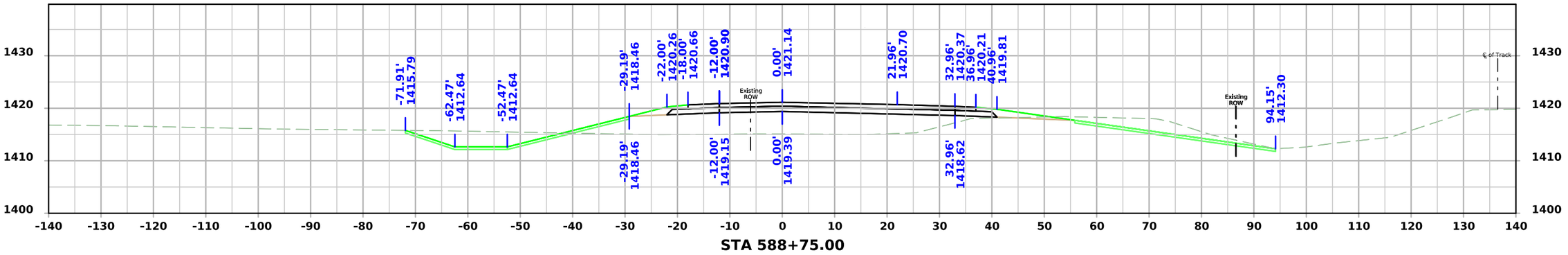


STA 587+50.00

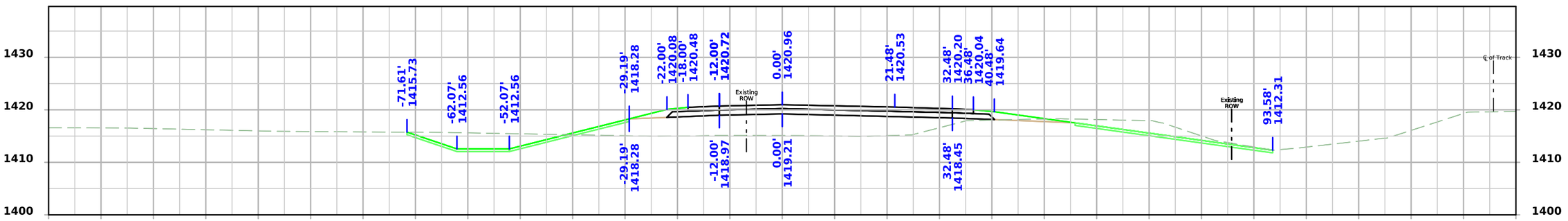
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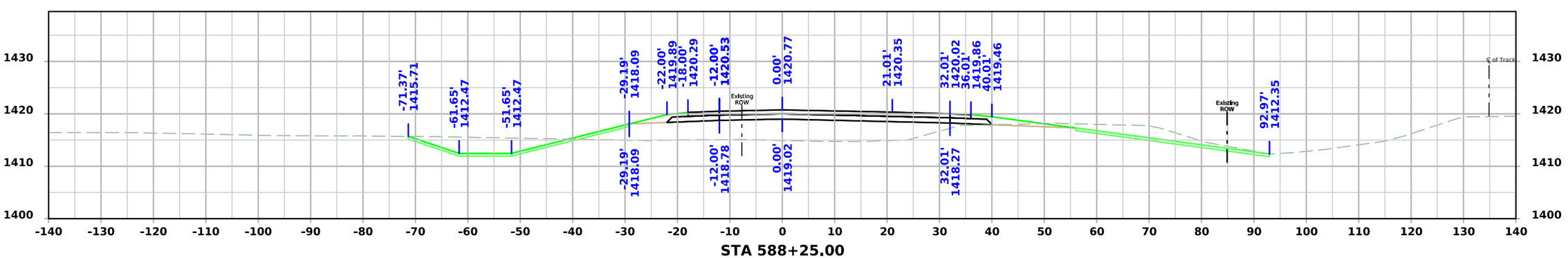
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STA 588+75.00



STA 588+50.00

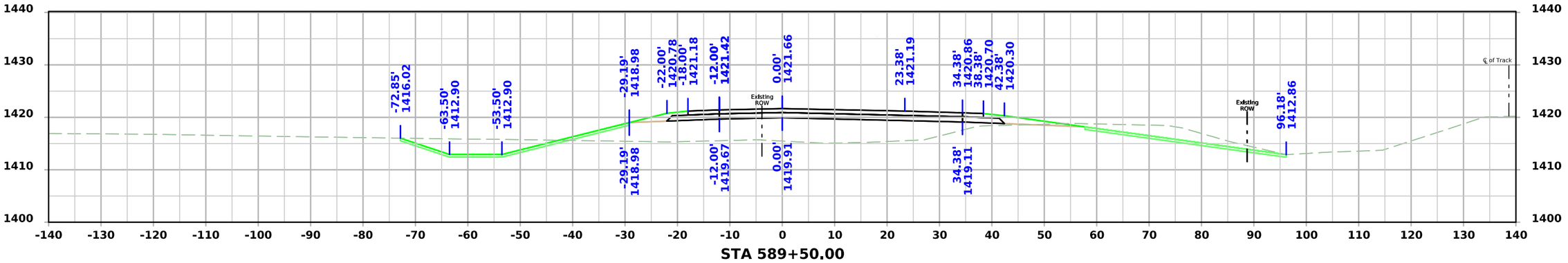


STA 588+25.00

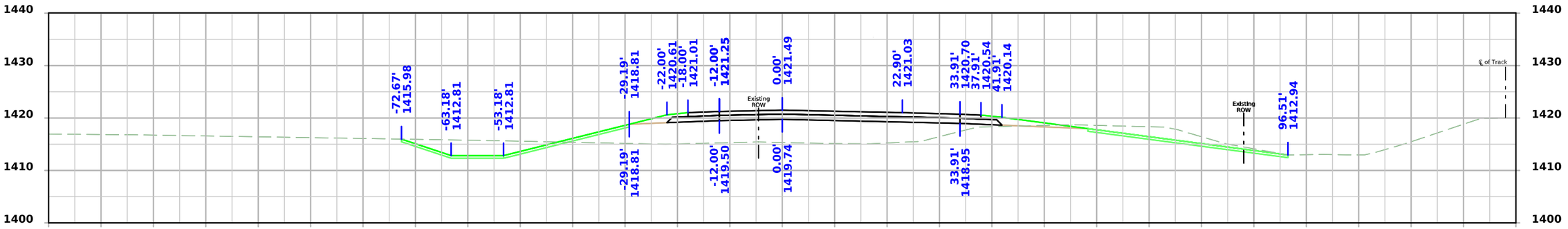
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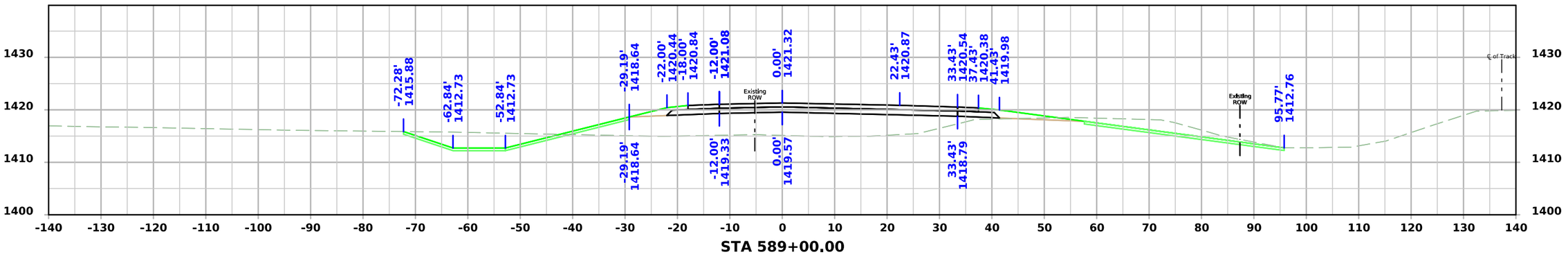
IA 7



STA 589+50.00



STA 589+25.00

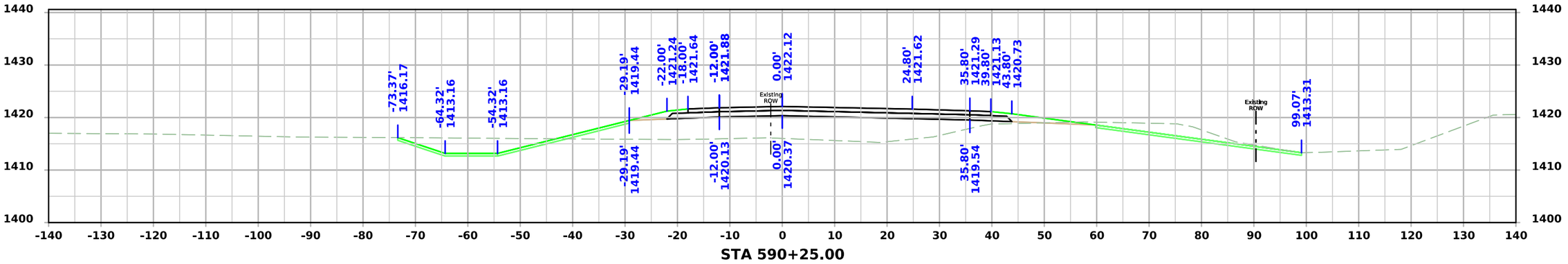


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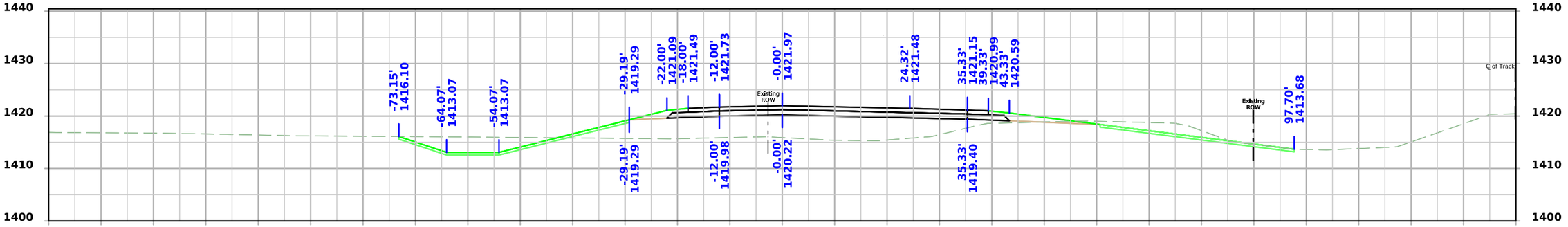
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.84**

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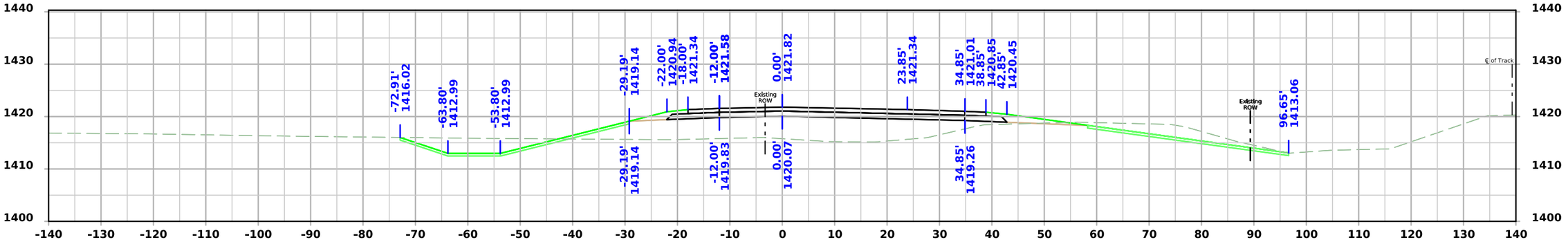
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STA 590+00.00

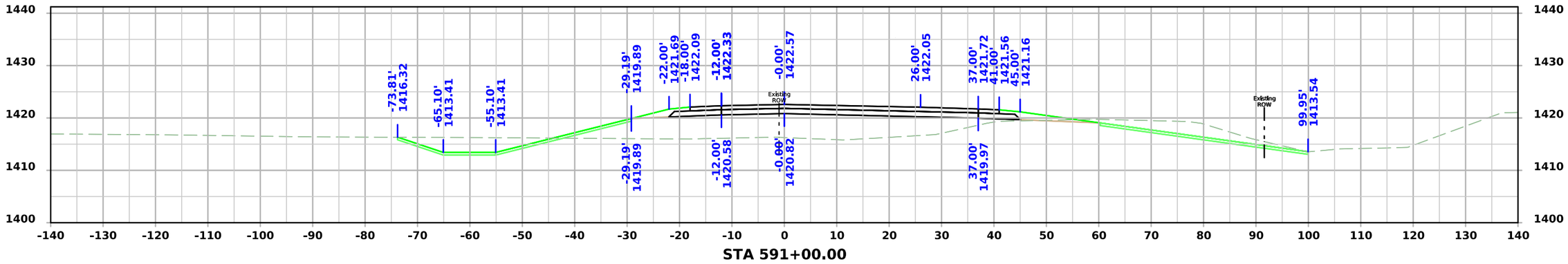


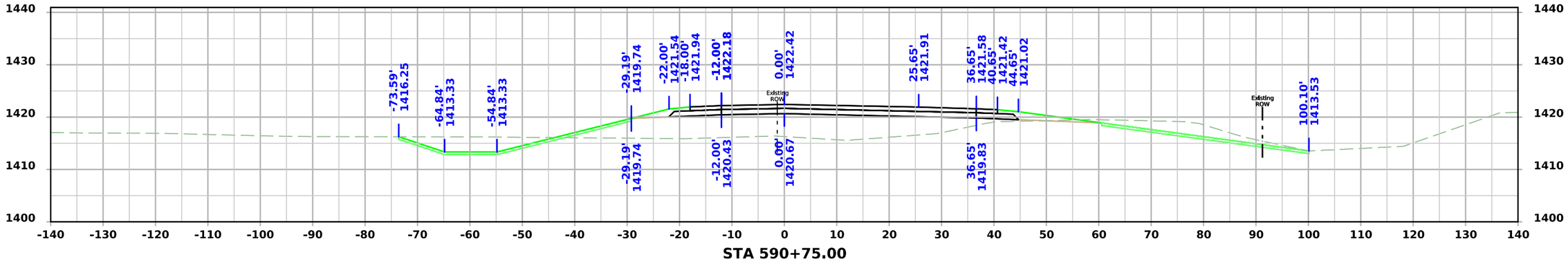
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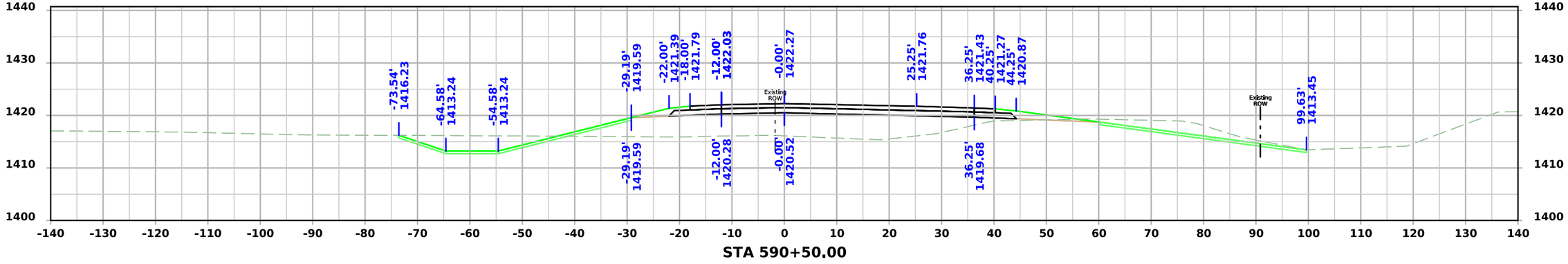
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.85**

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IA 7



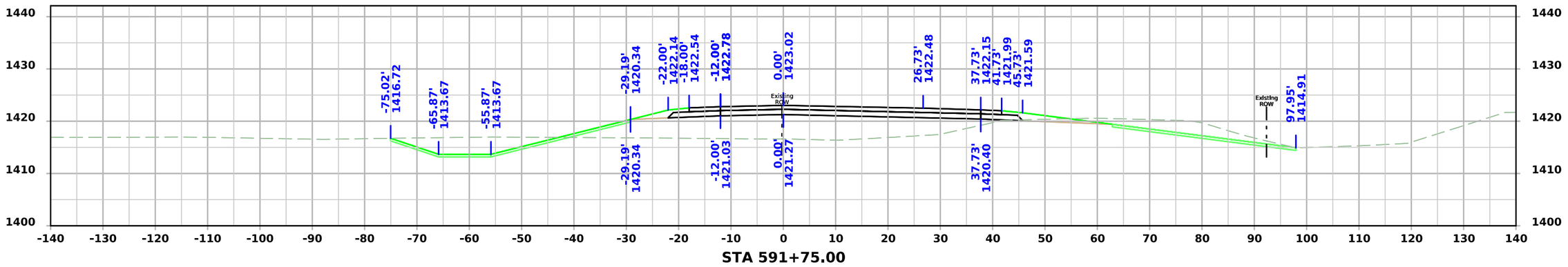




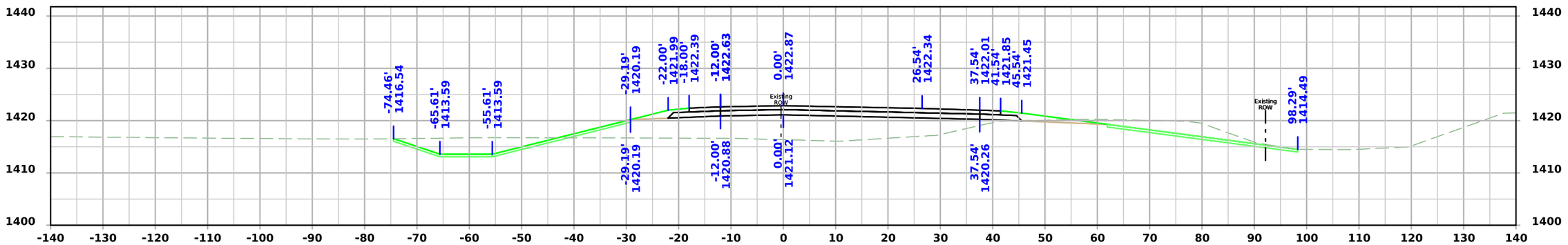
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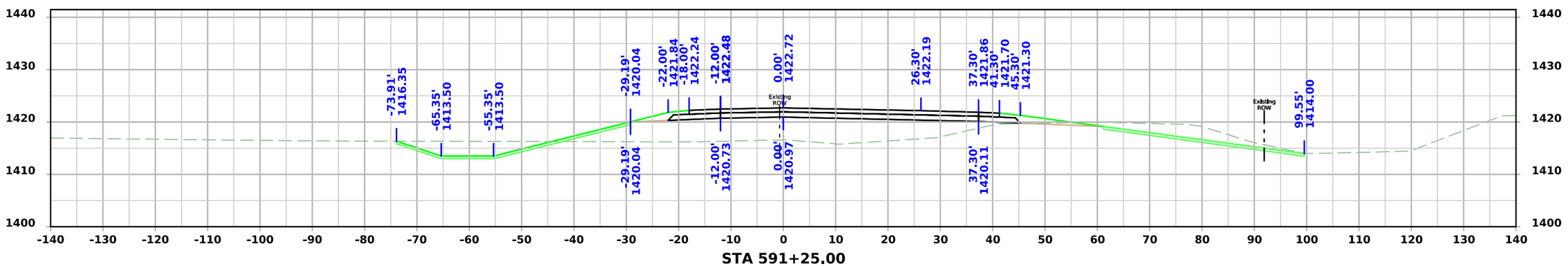
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STA 591+50.00

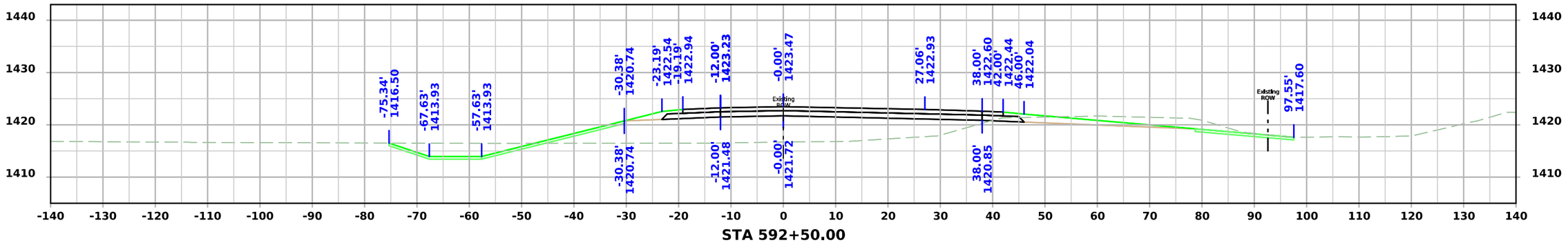


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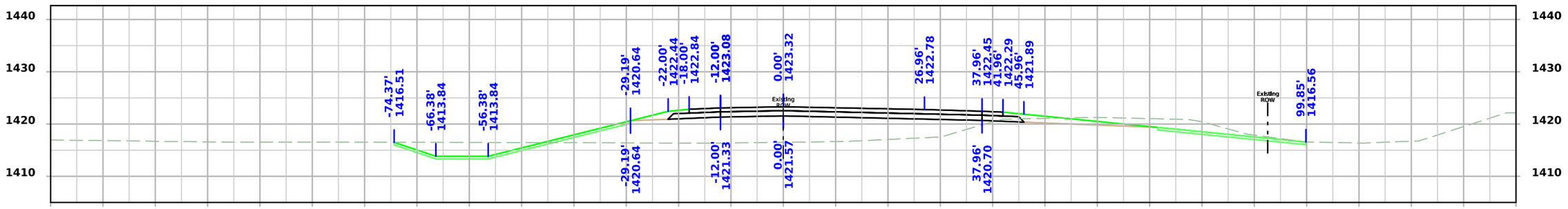
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.87**

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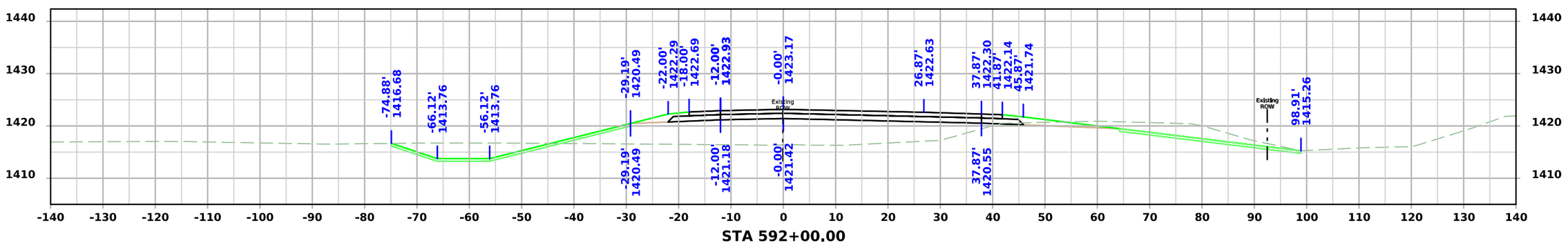
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STA 592+50.00



STA 592+25.00

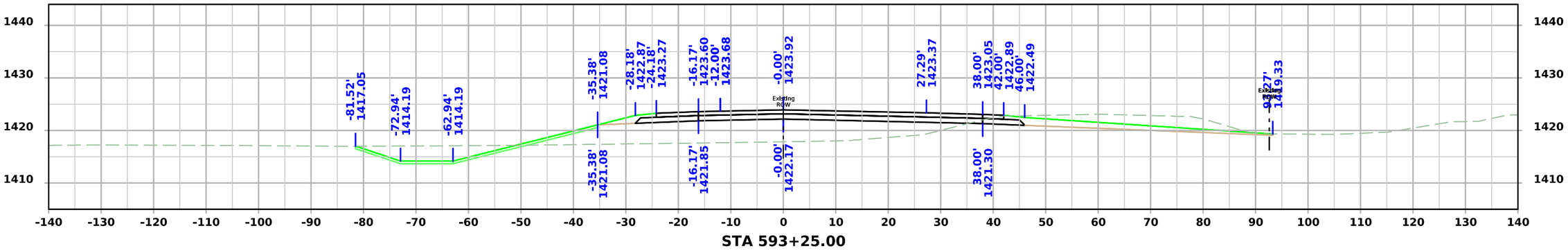


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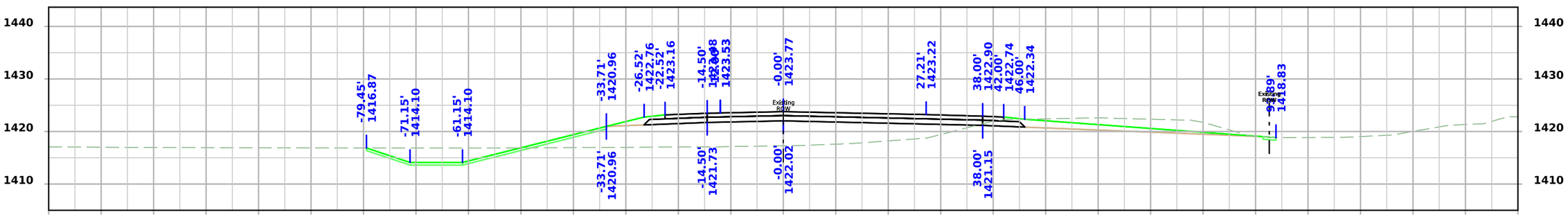
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.88**

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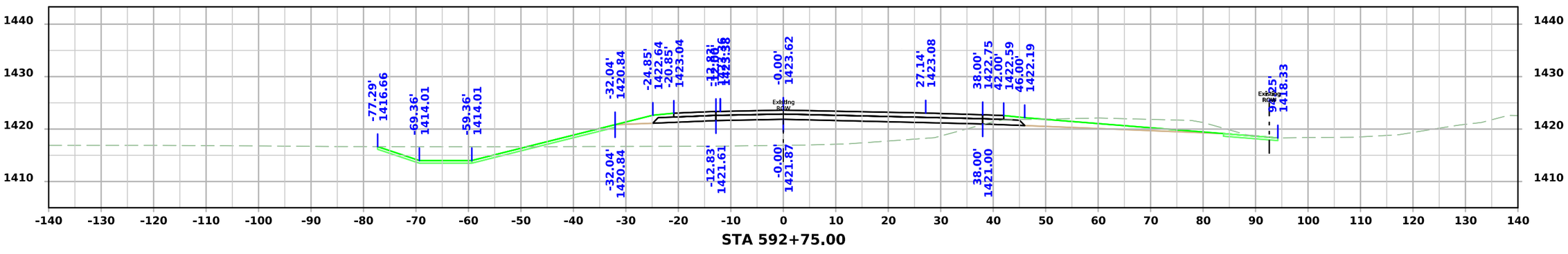
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STA 593+25.00



STA 593+00.00

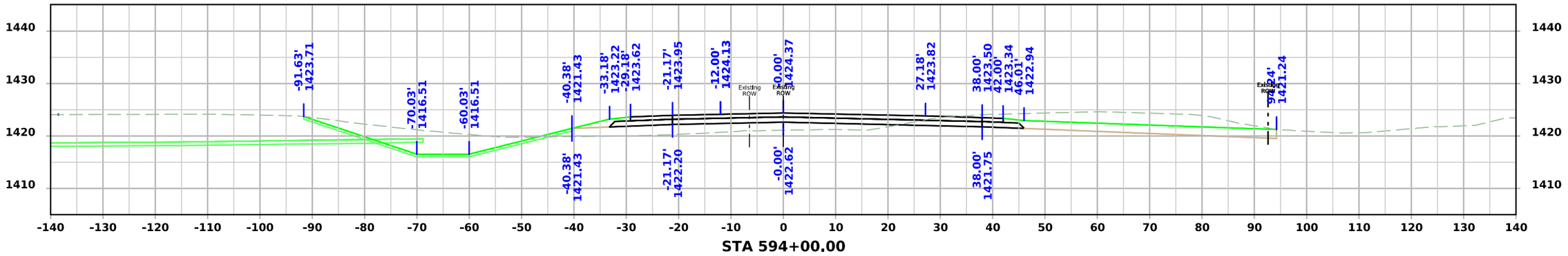


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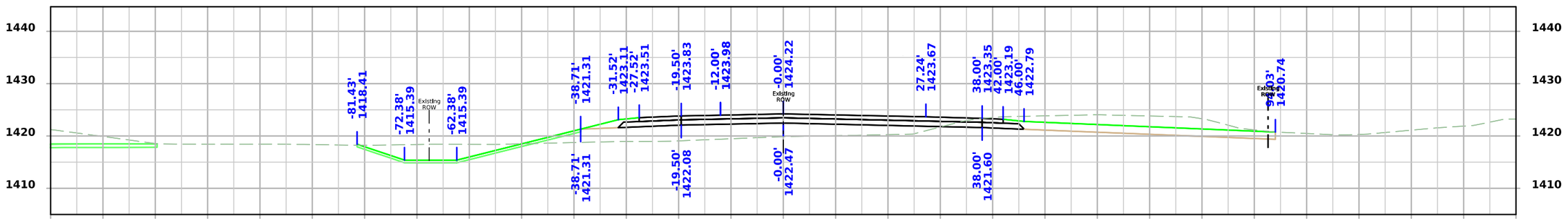
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.89**

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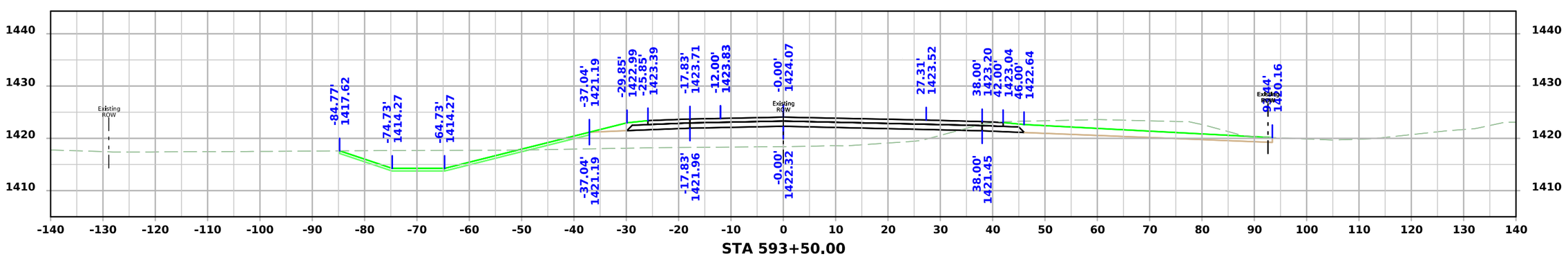
IA 7



STA 594+00.00



STA 593+75.00

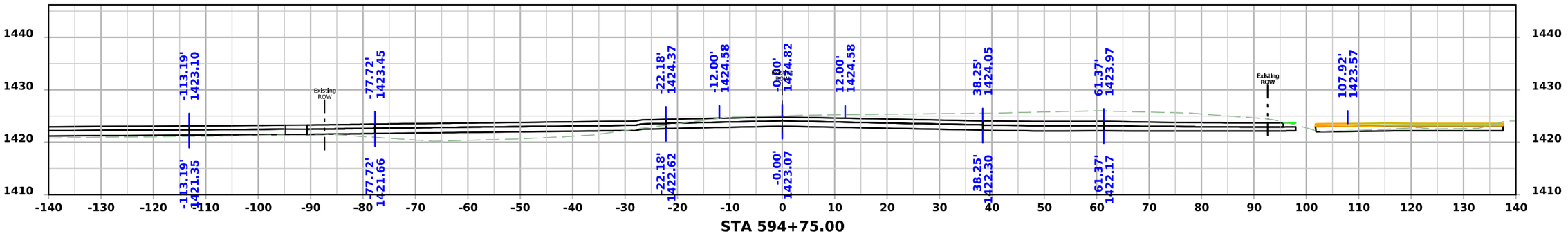


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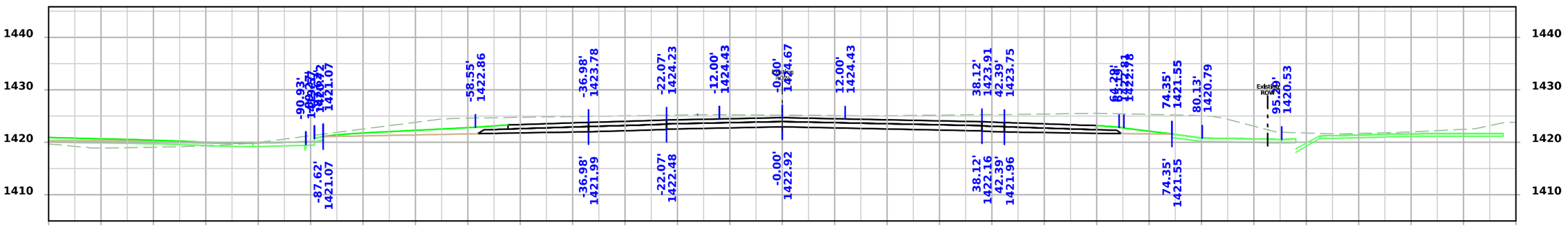
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.90**

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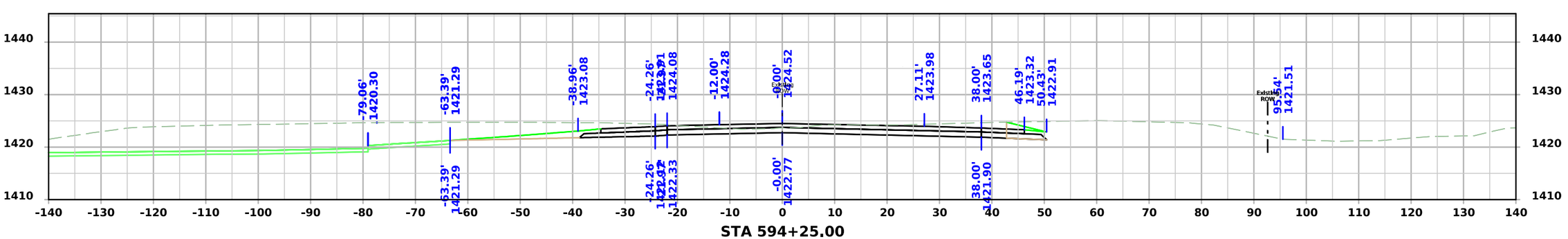
IA 7



STA 594+75.00



STA 594+50.00

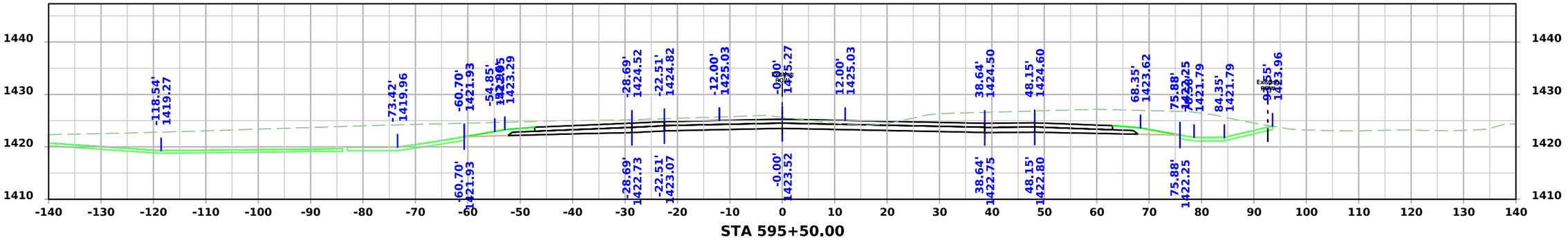


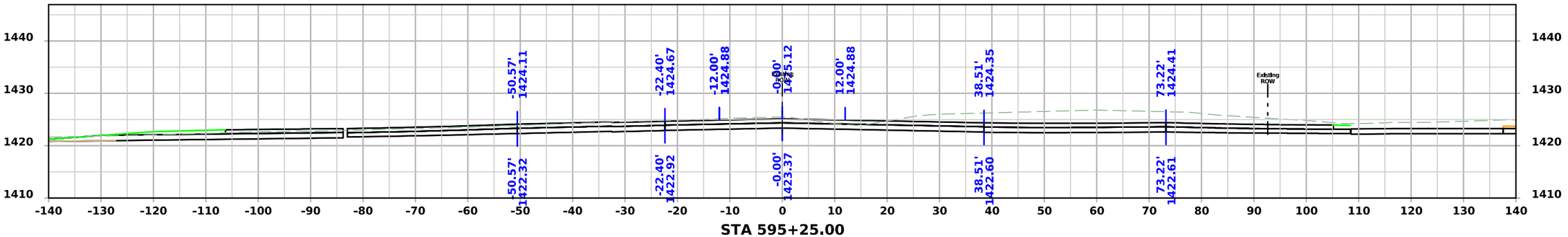
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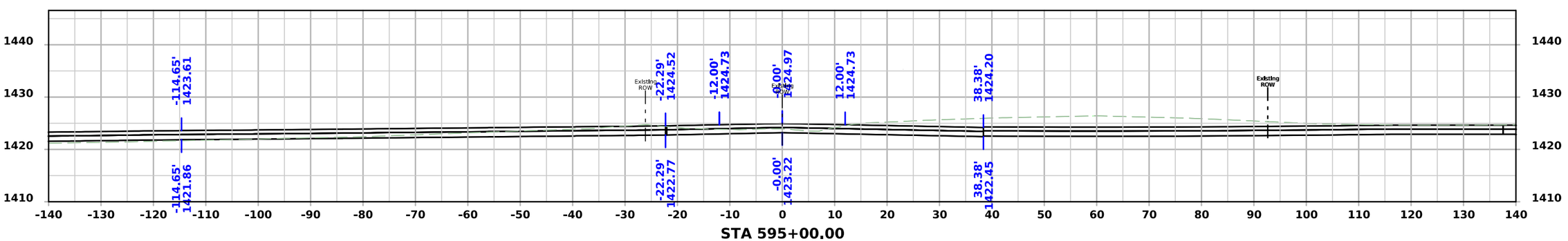
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.91**

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IA 7



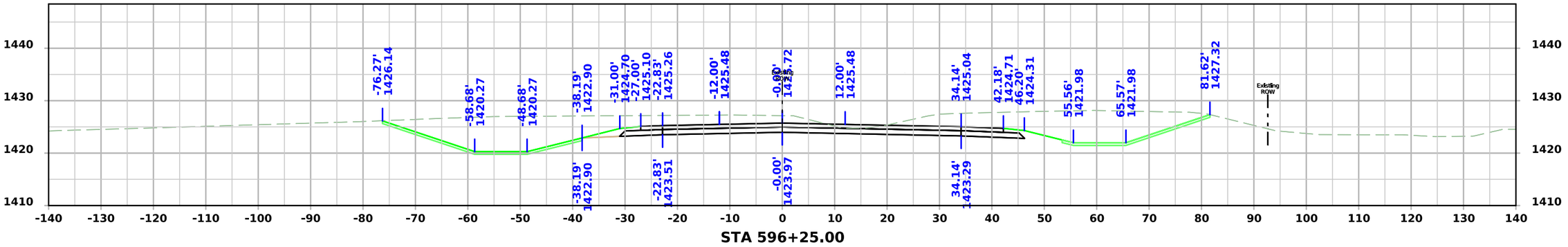




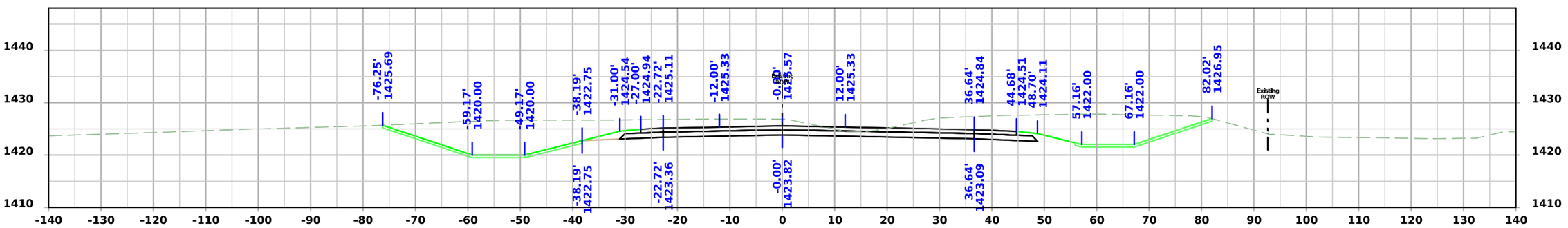
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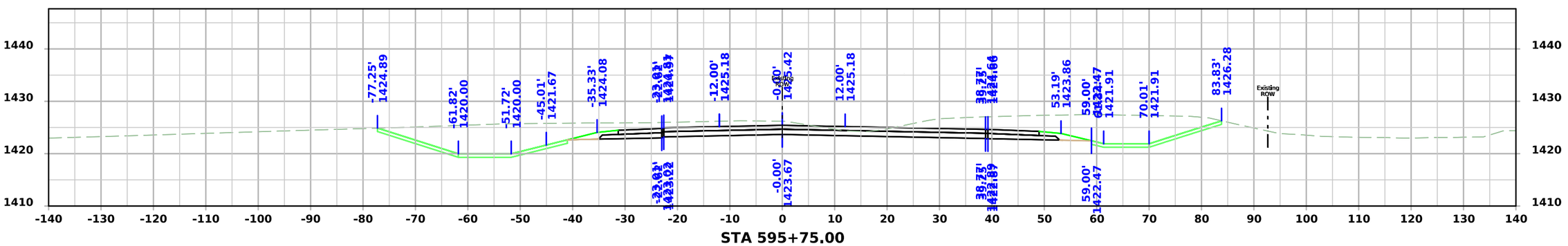
IA 7



STA 596+25.00



STA 596+00.00

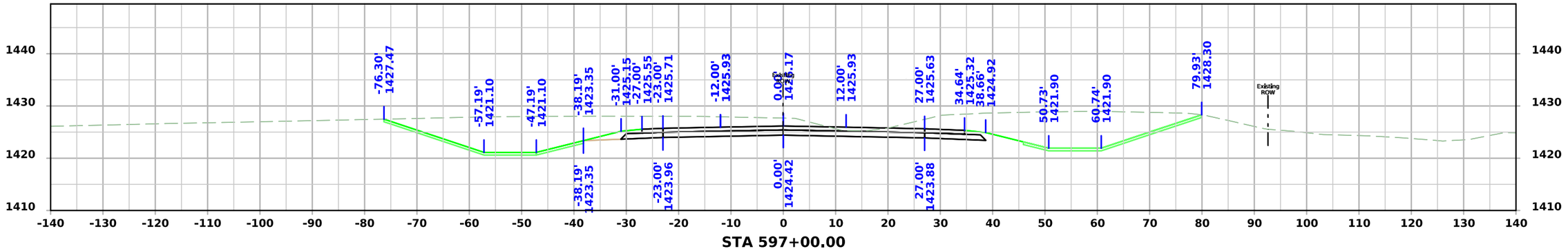


STA 595+75.00

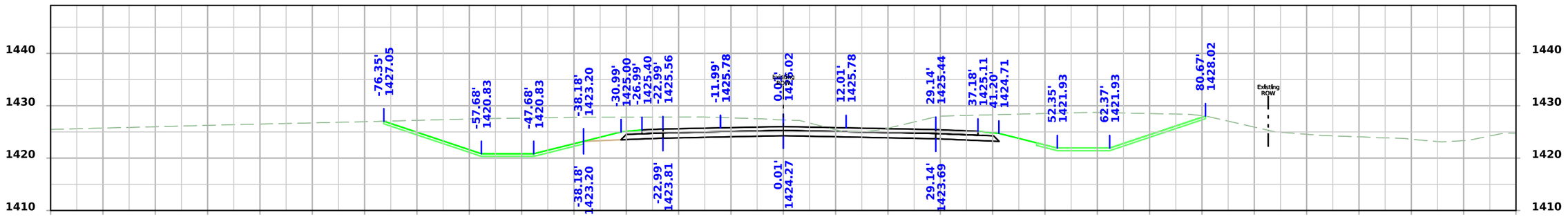
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.93**

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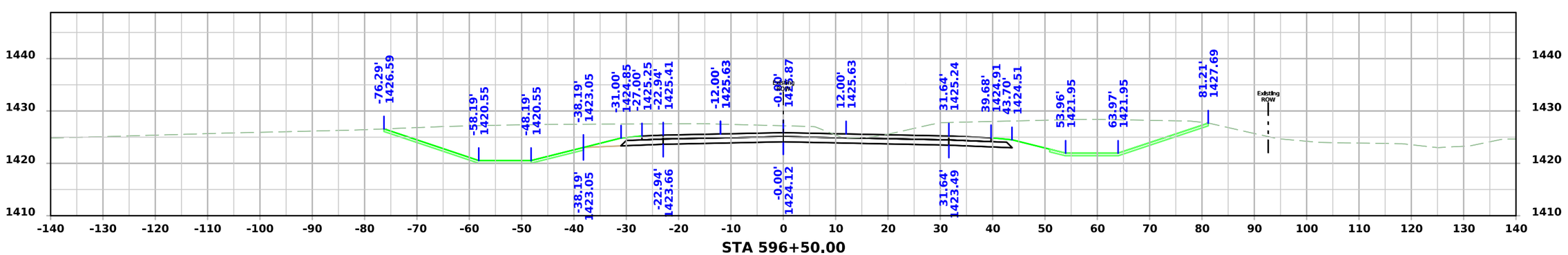
IA 7



STA 597+00.00



STA 596+75.00

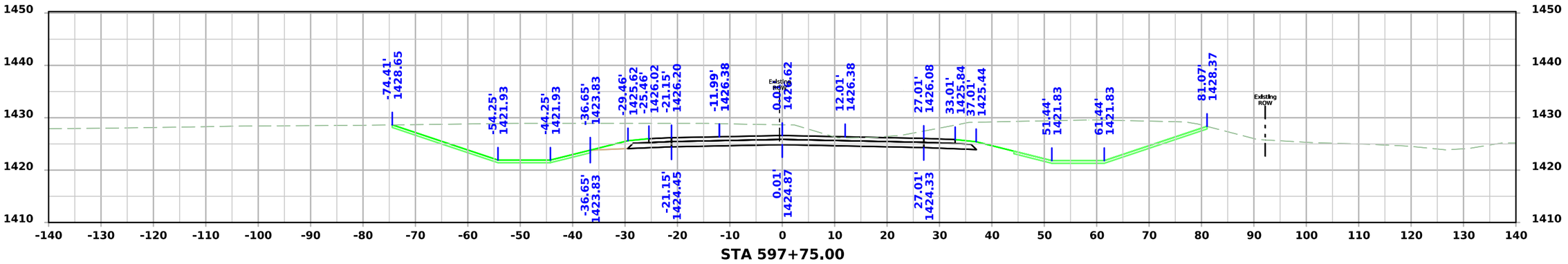


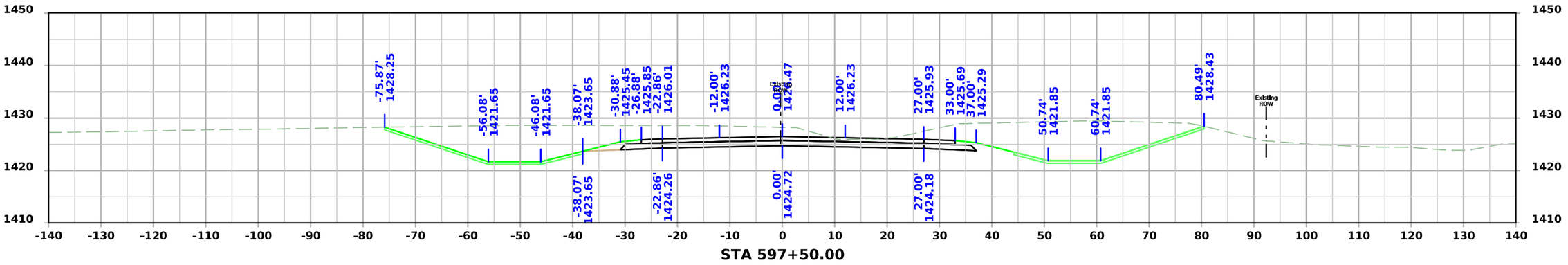
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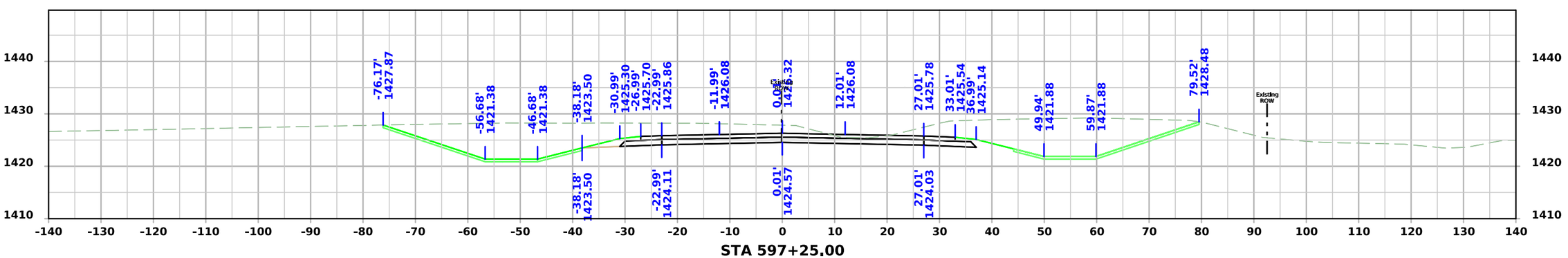
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.94**

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IA 7



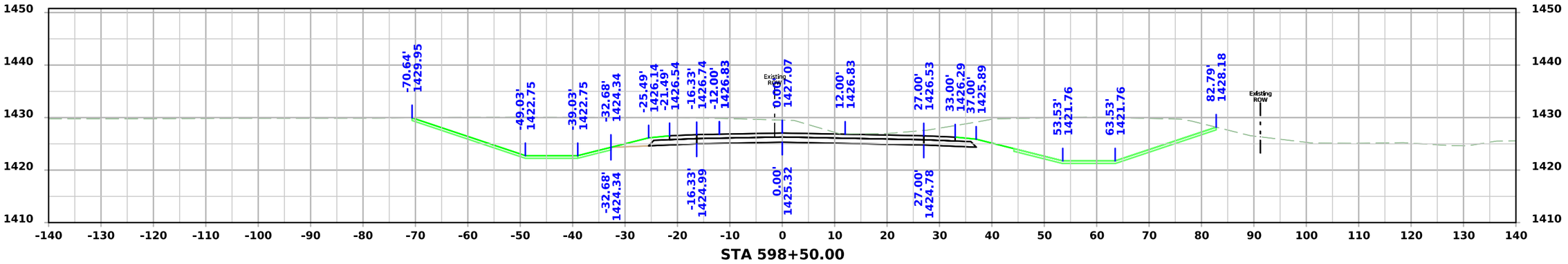


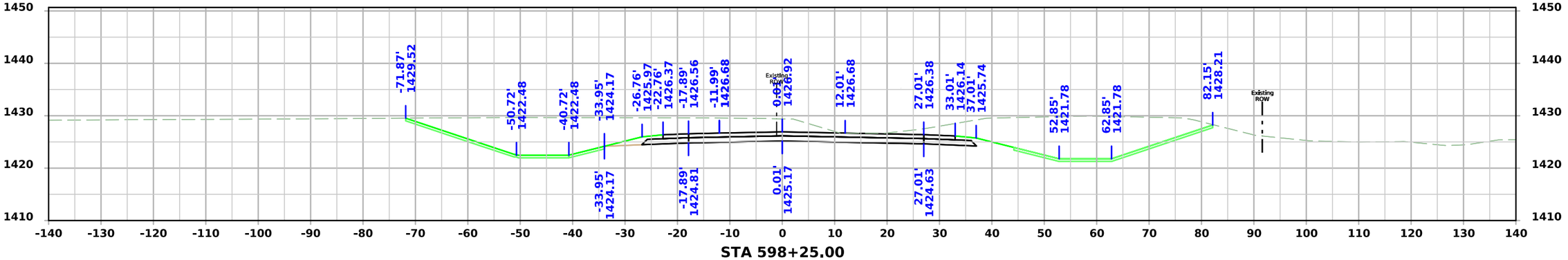


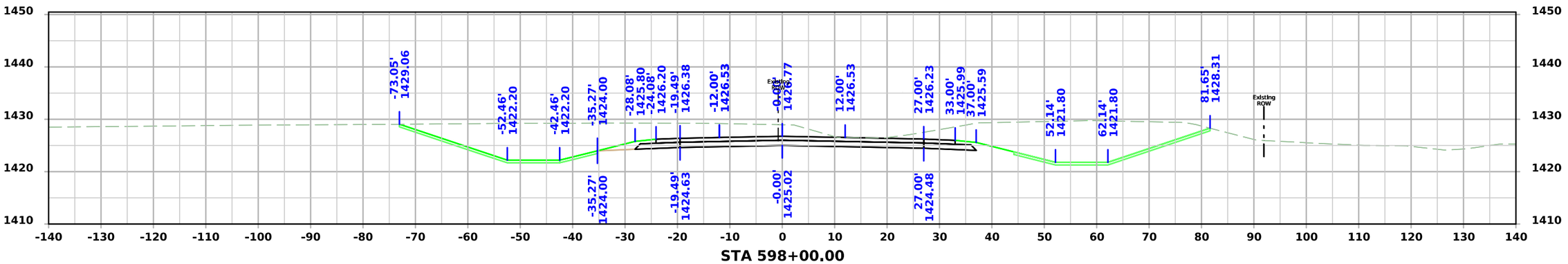
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.95**

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IA 7



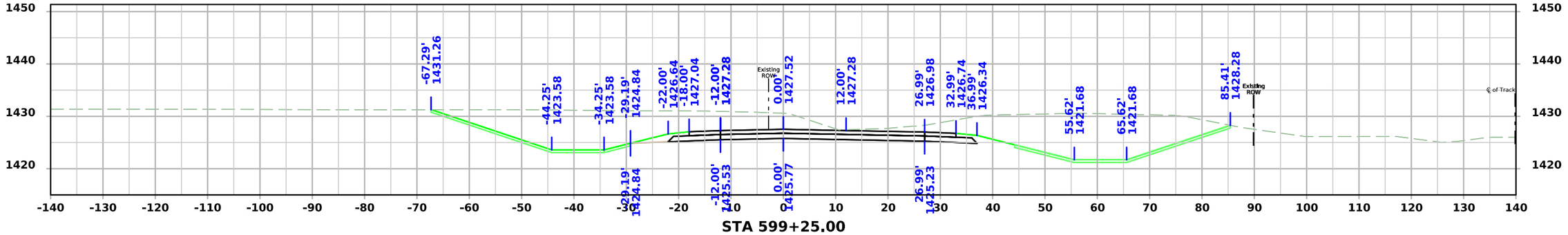




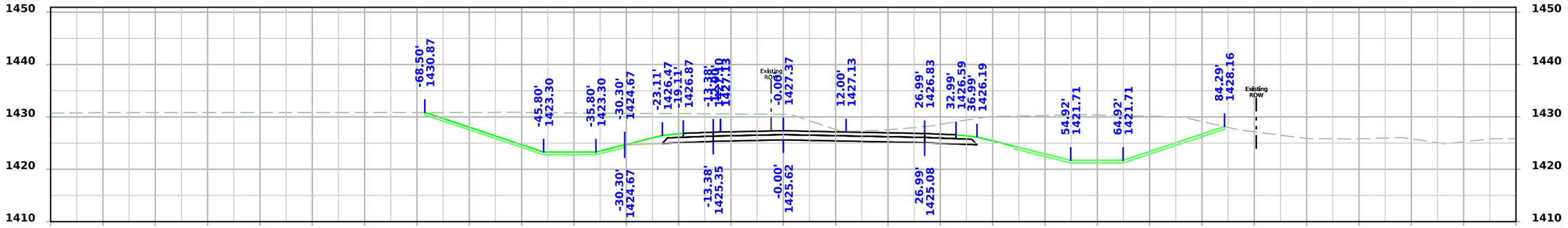
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.96**

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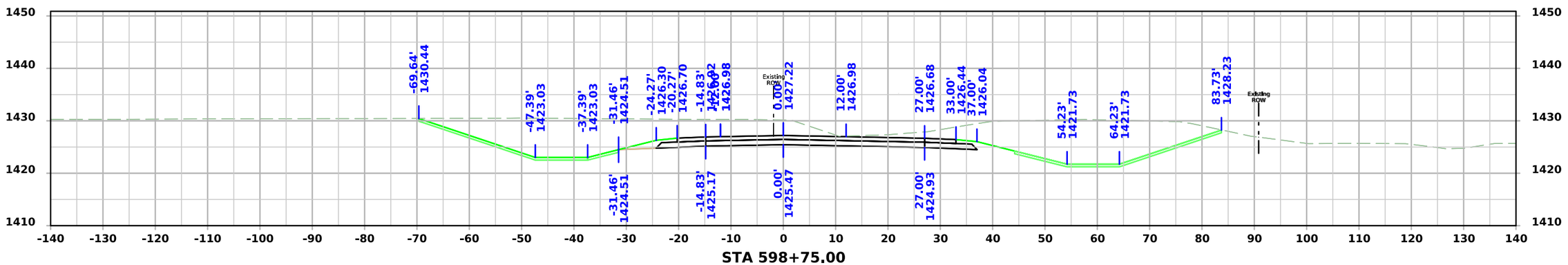
IA 7



STA 599+25.00



STA 599+00.00

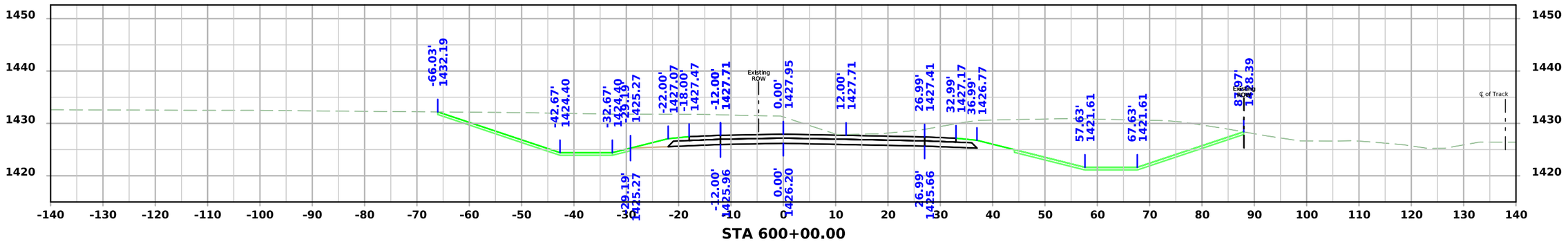


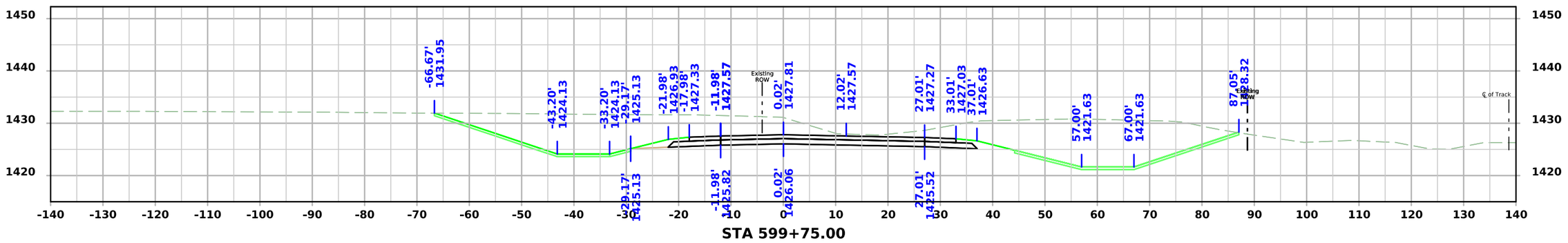
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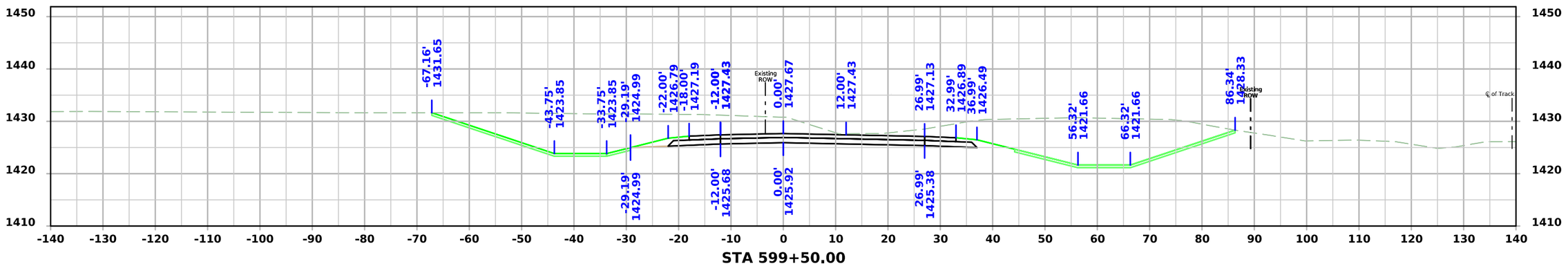
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.97**

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IA 7



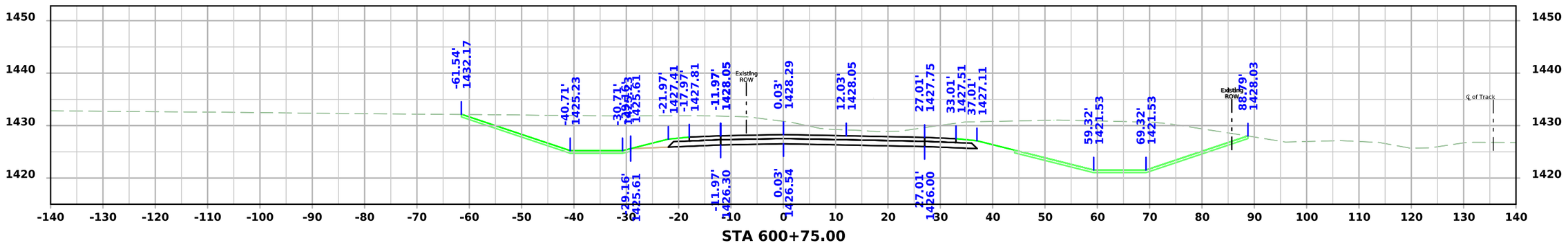




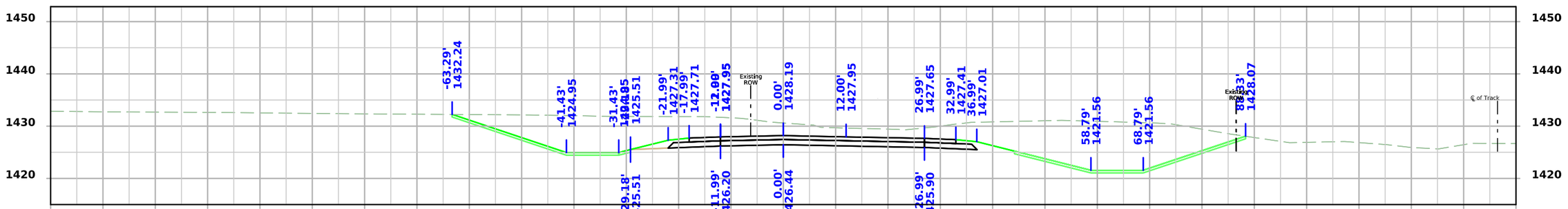
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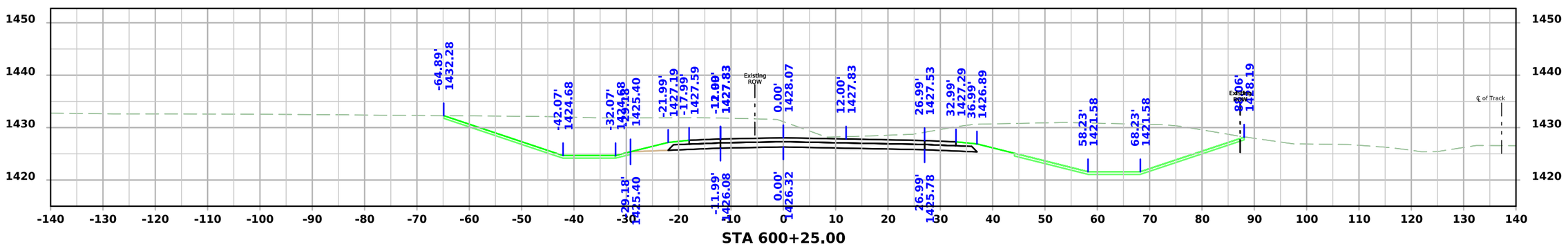
IA 7



STA 600+75.00



STA 600+50.00

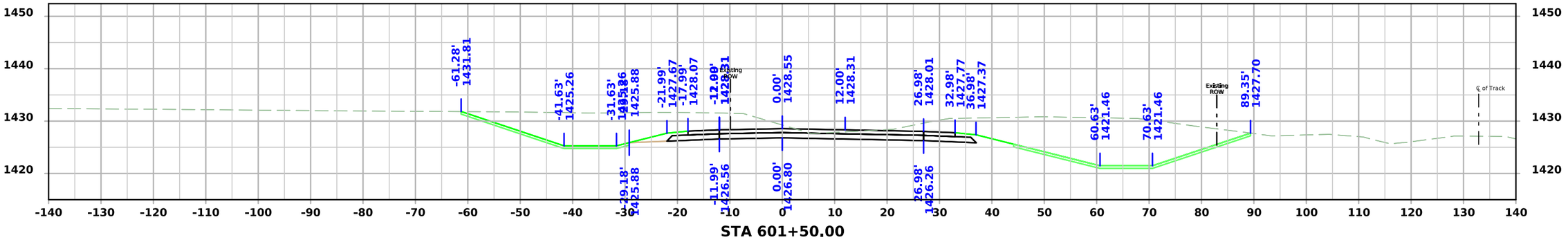


STA 600+25.00

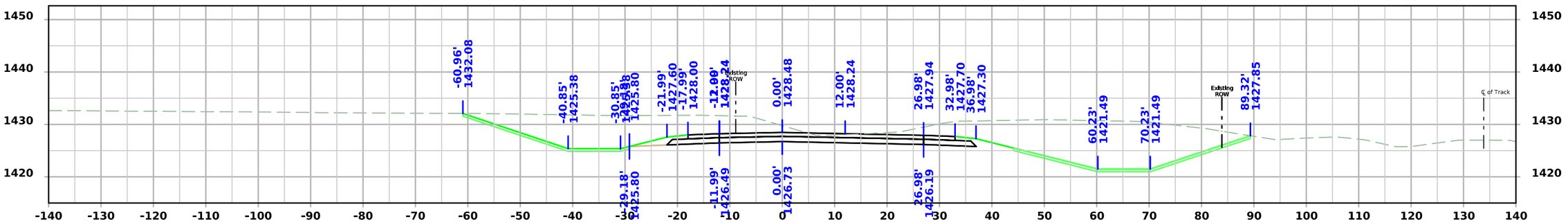
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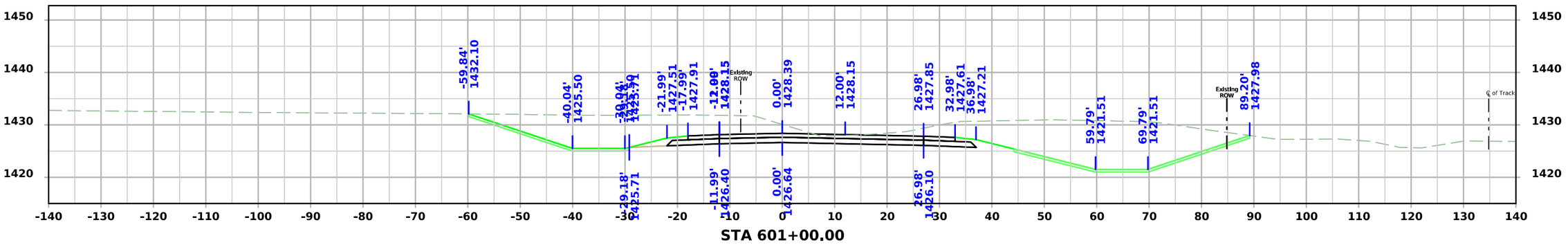
IA 7



STA 601+50.00



STA 601+25.00

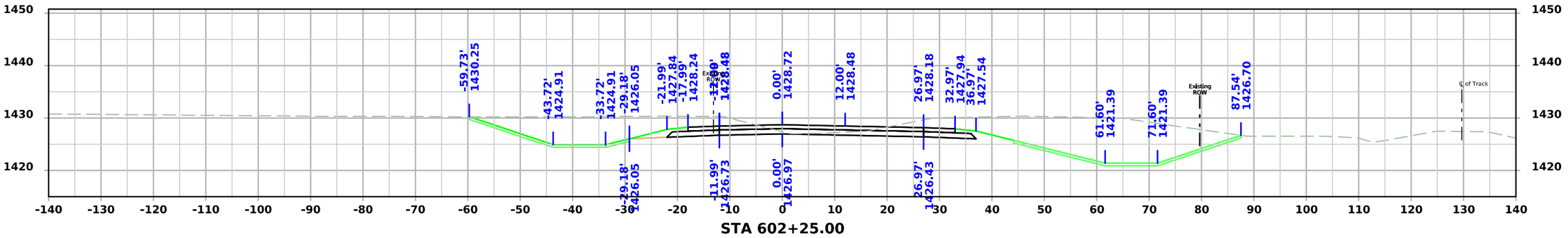


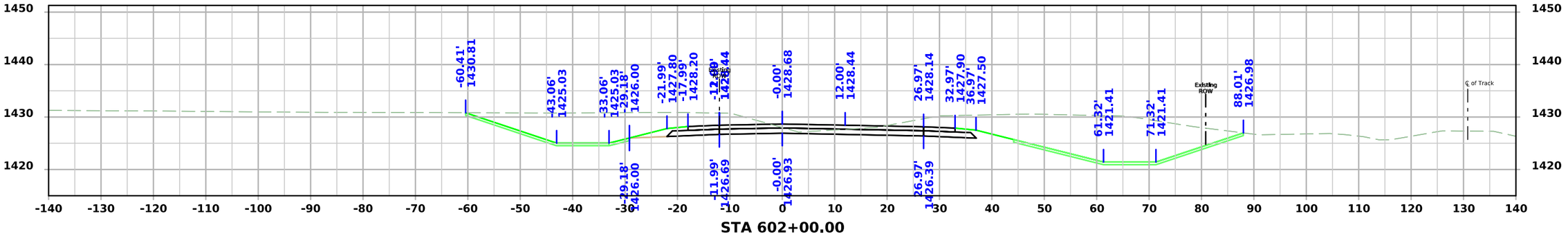
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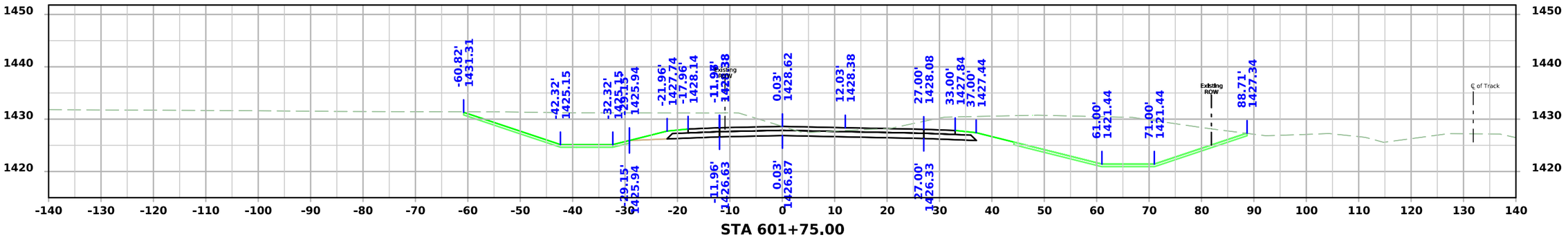
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IA 7



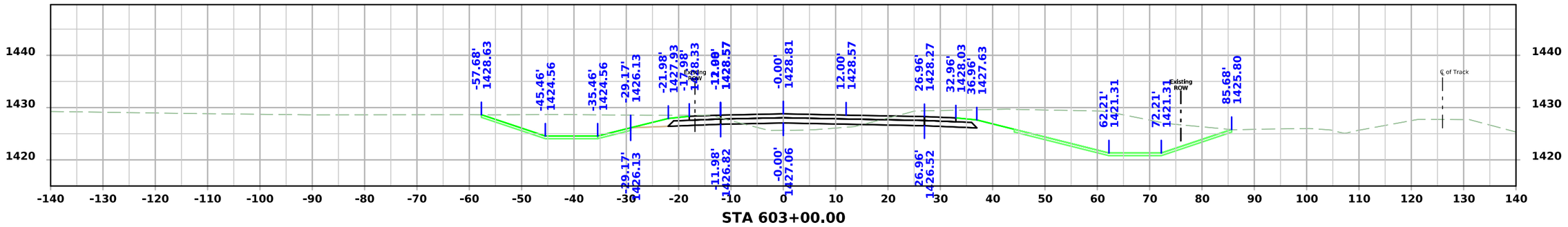




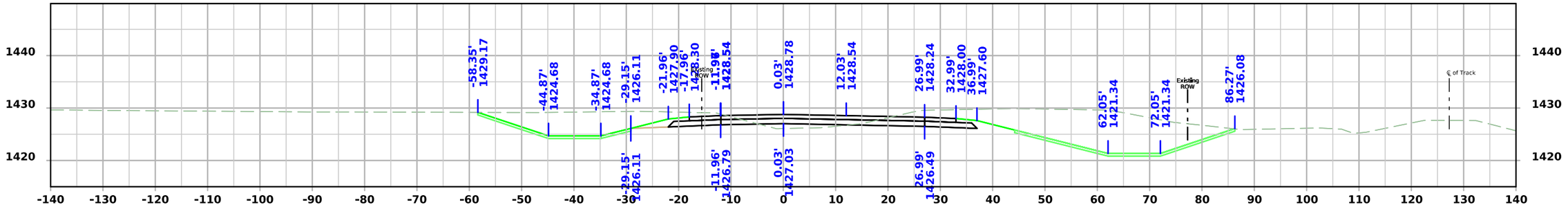
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.101**

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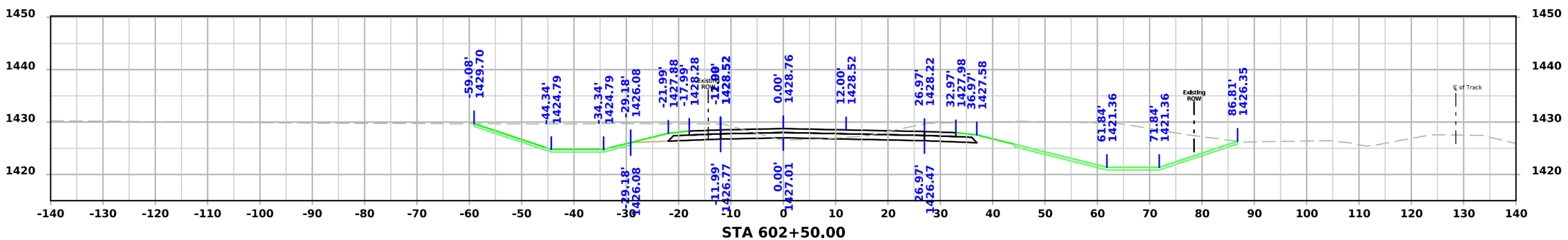
IA 7



STA 603+00.00



STA 602+75.00

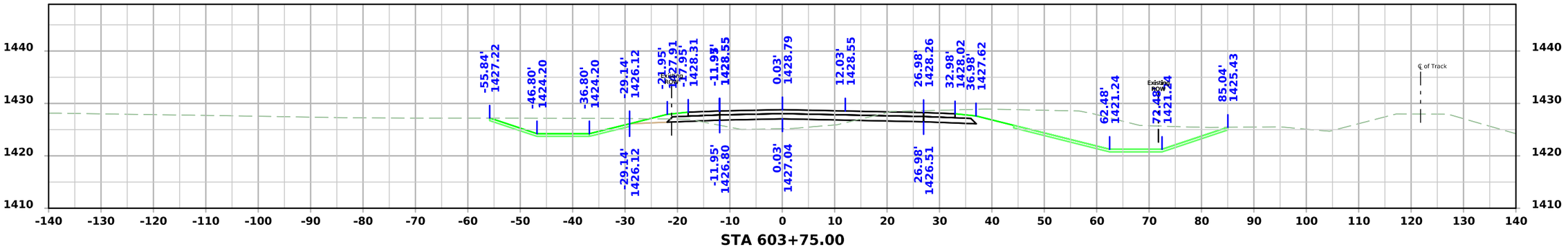


STA 602+50.00

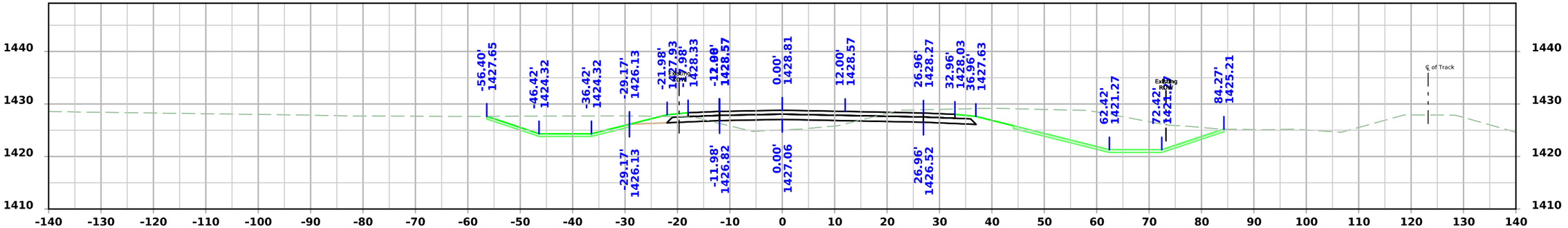
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.102**

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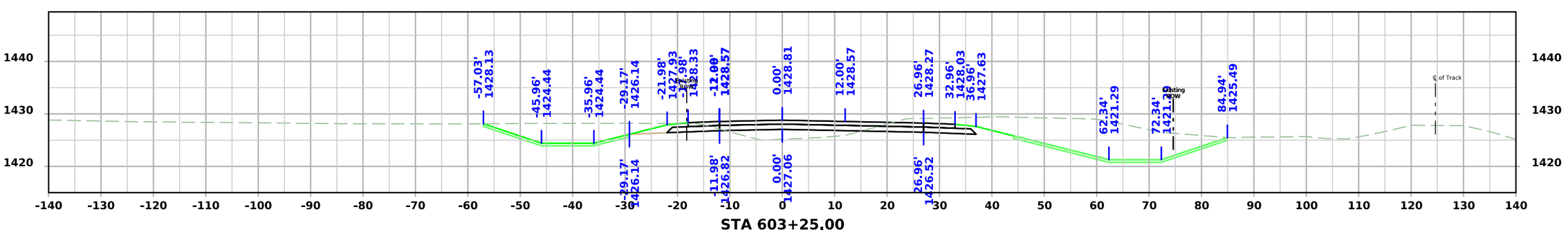
IA 7



STA 603+75.00



STA 603+50.00

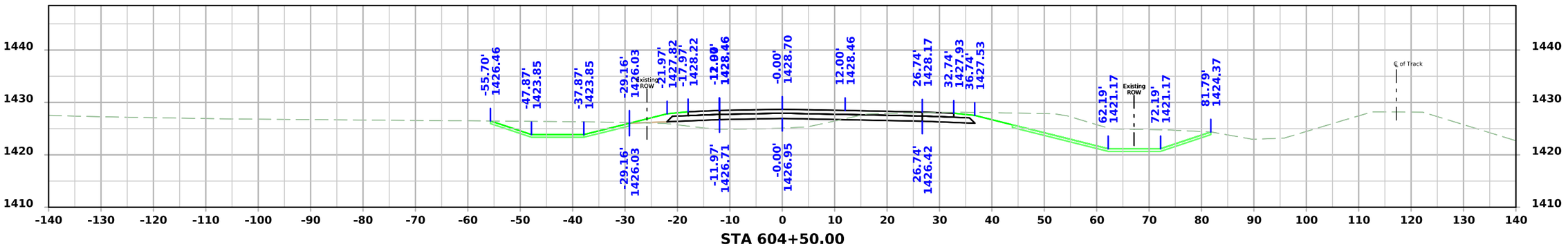


STA 603+25.00

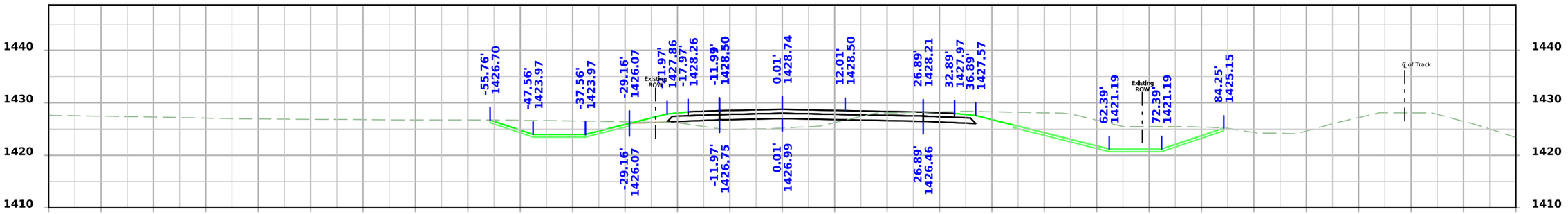
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.103**

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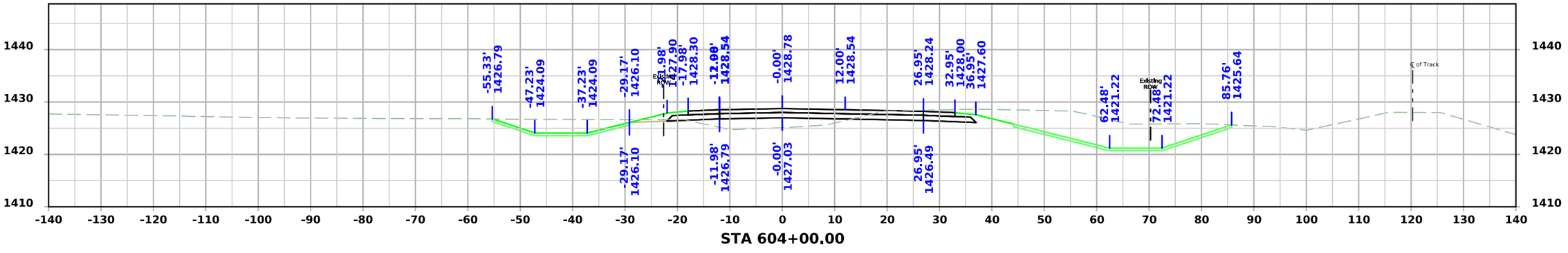
IA 7



STA 604+50.00



STA 604+25.00

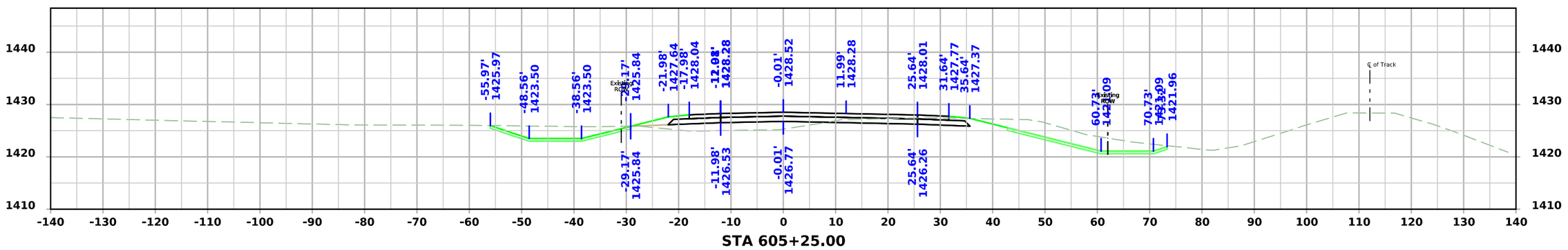


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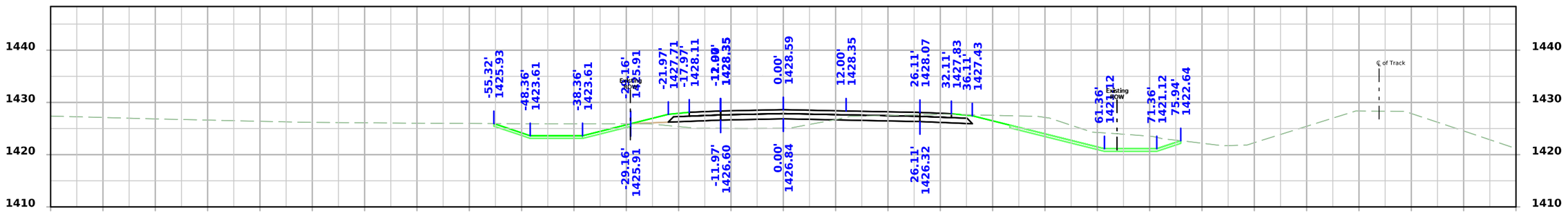
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.104**

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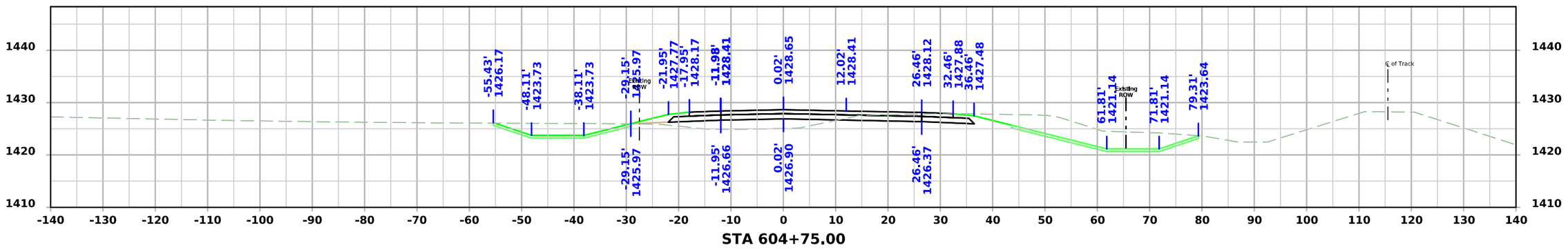
IA 7



STA 605+25.00



STA 605+00.00

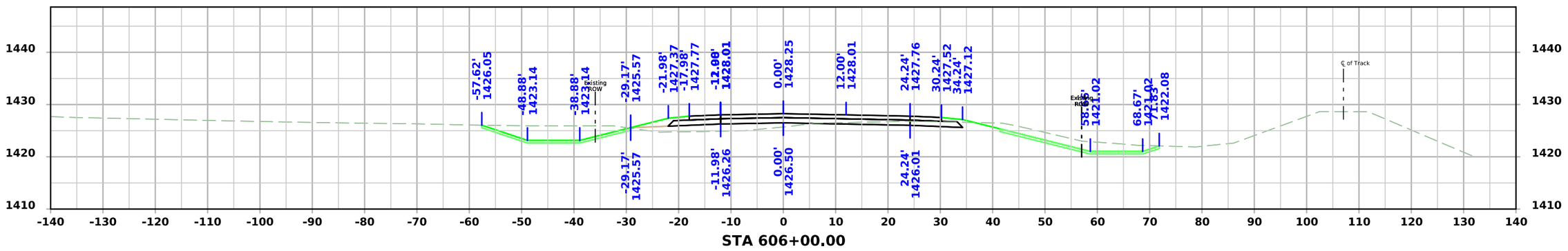


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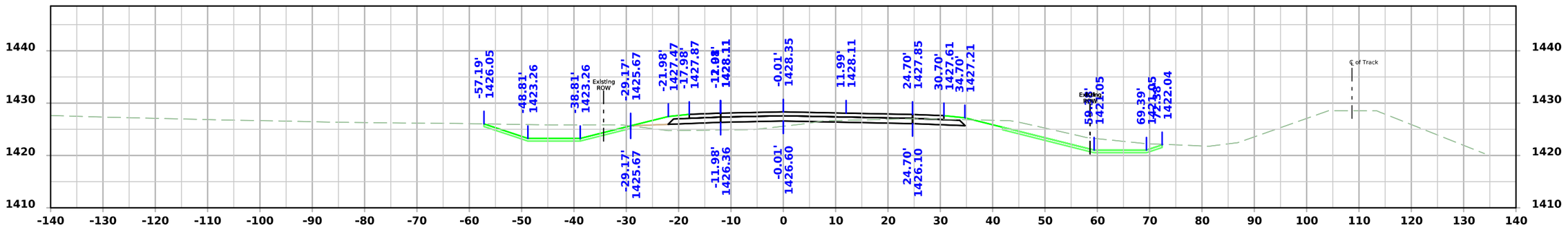
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.105**

1:47:02 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_ML007_11007038Z04.dgn

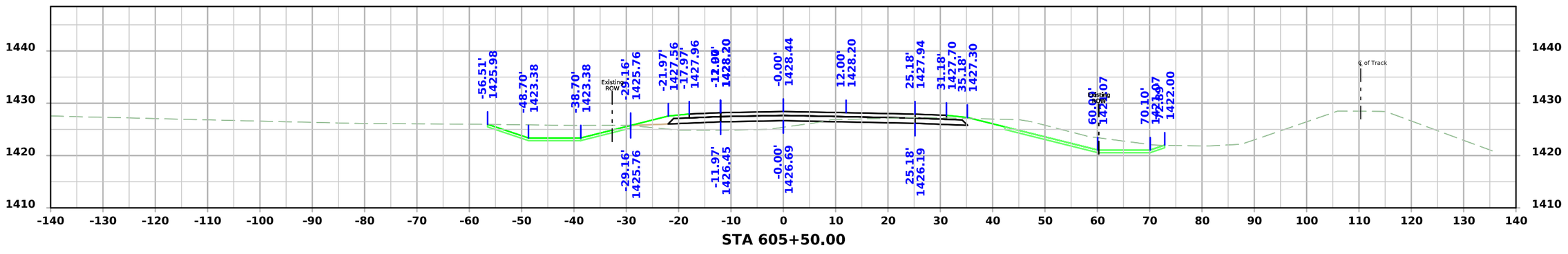
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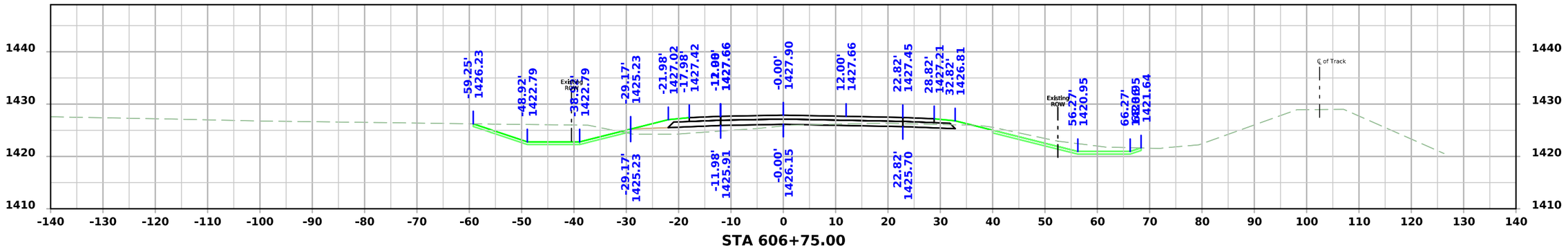


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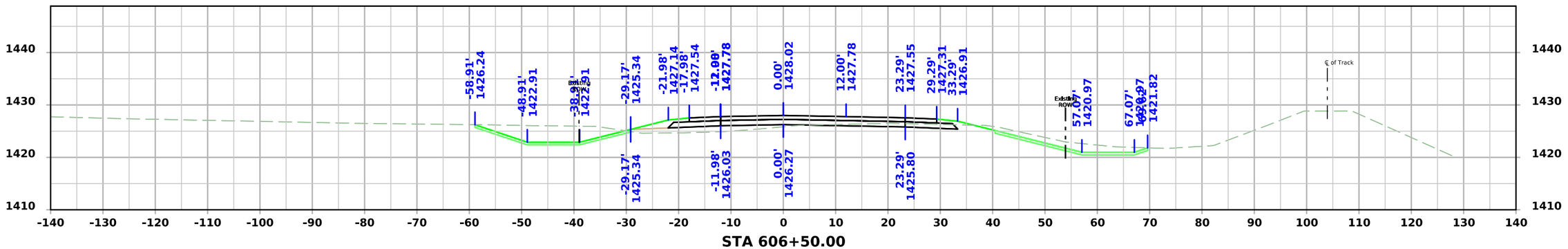
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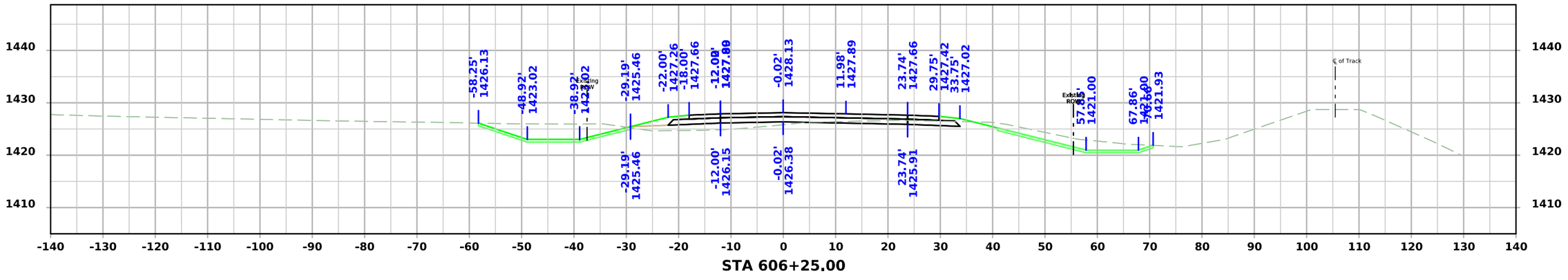
IA 7



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STA 606+50.00

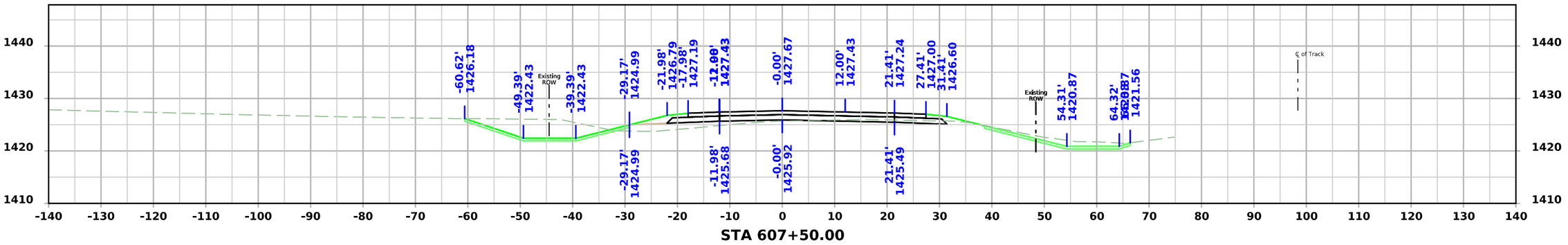


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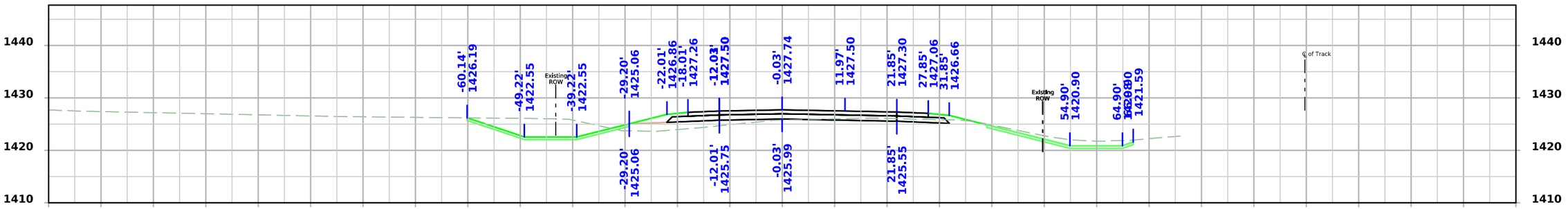
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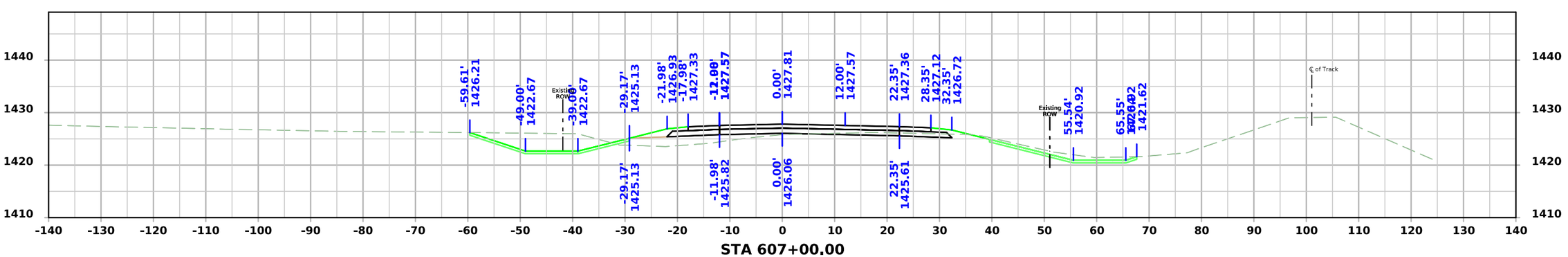
IA 7



STA 607+50.00



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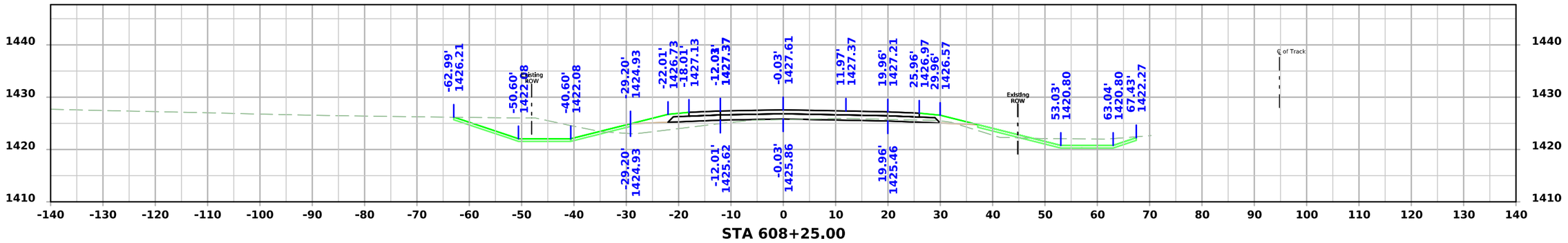


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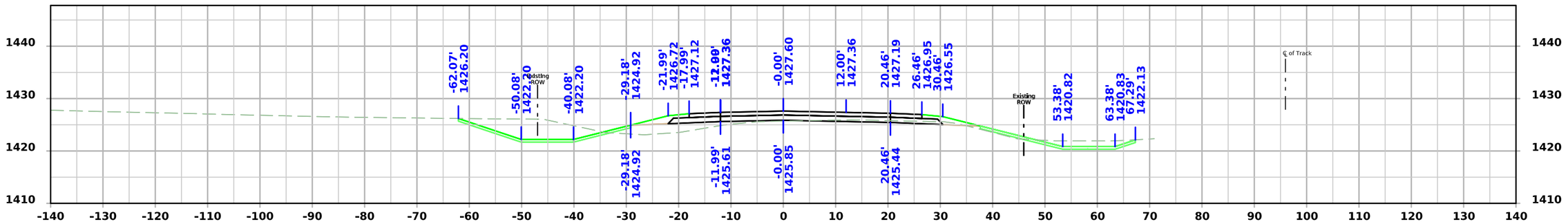
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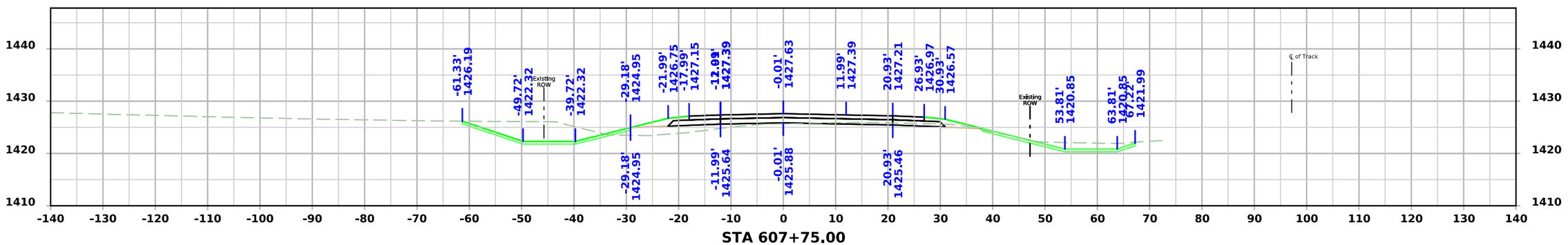
IA 7



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STA 608+00.00

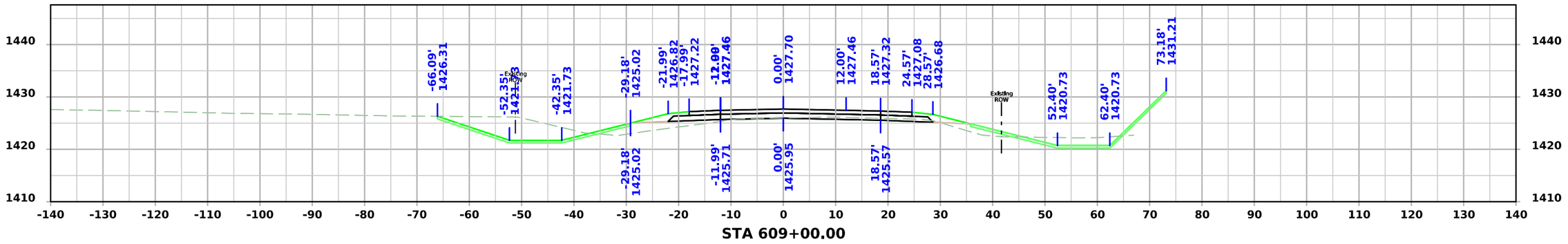


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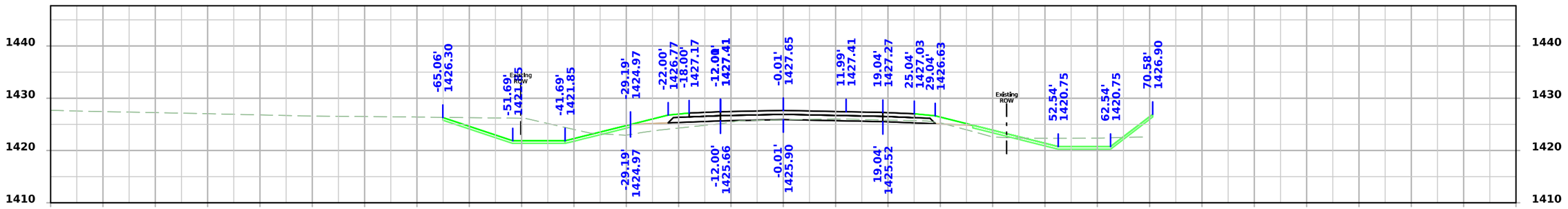
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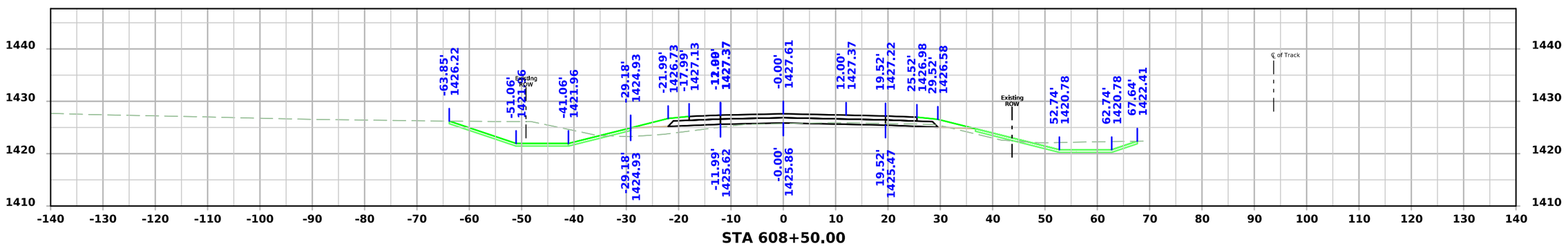
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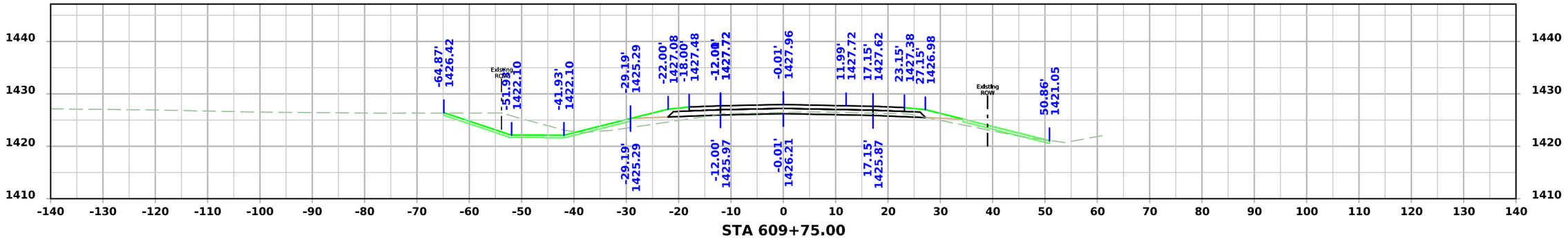


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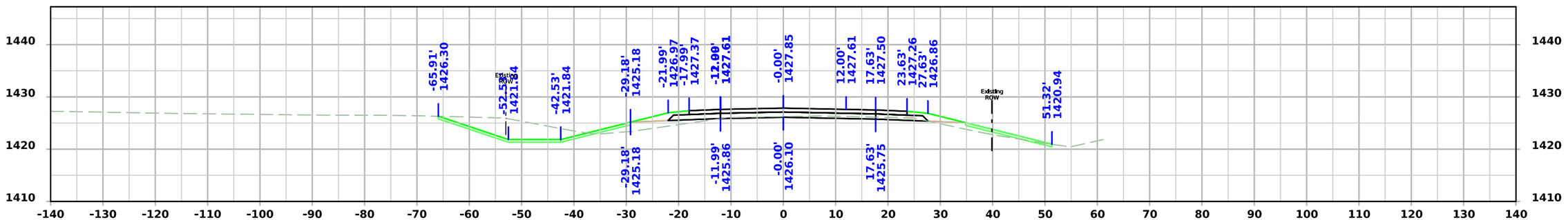
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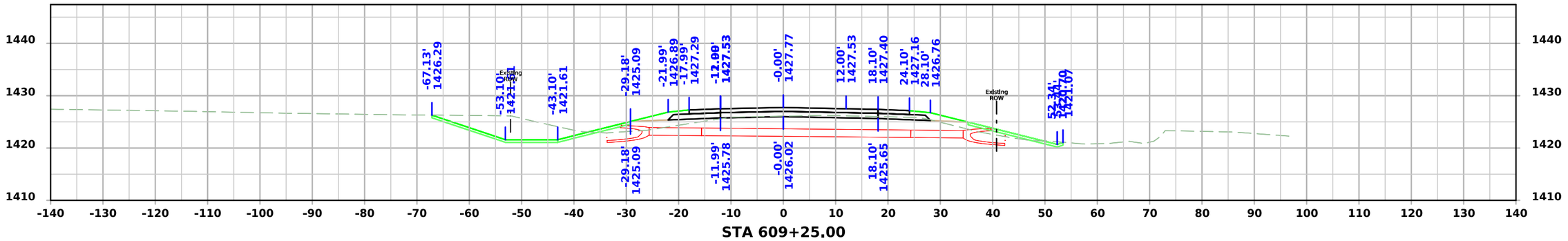
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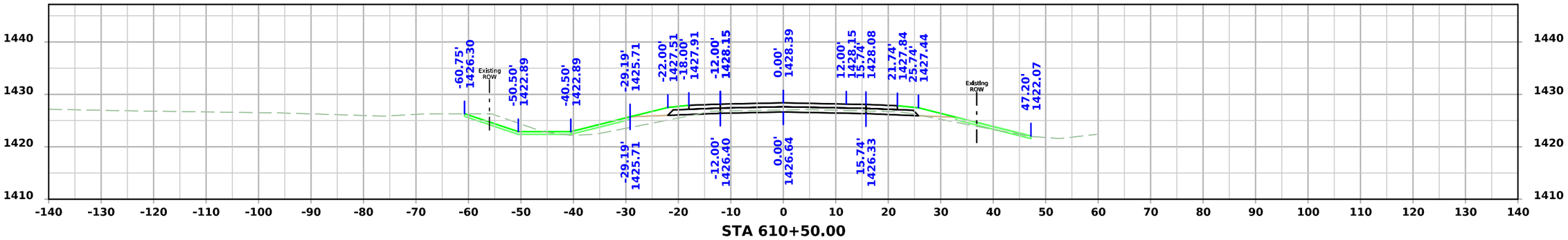


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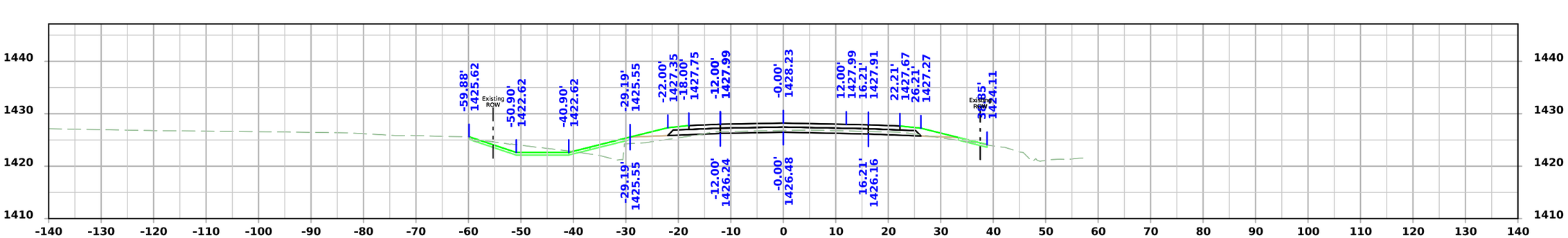
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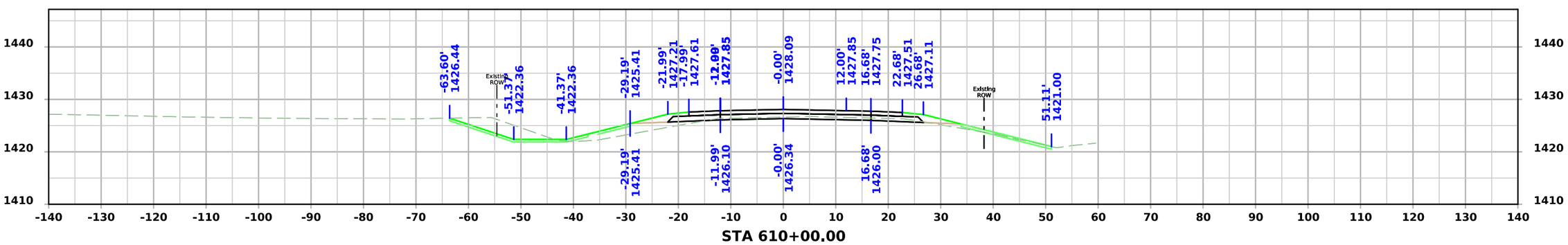
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STA 610+25.00

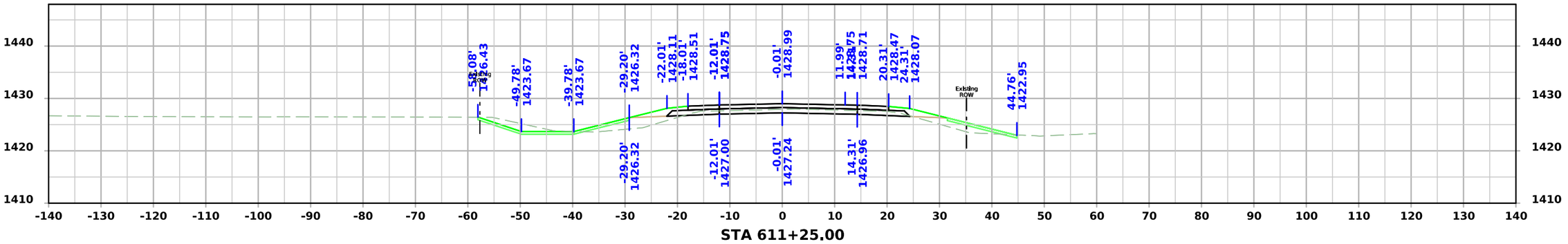


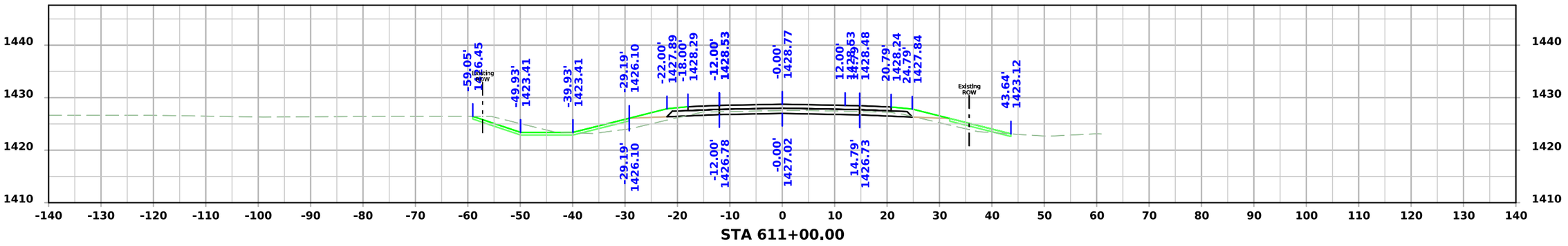
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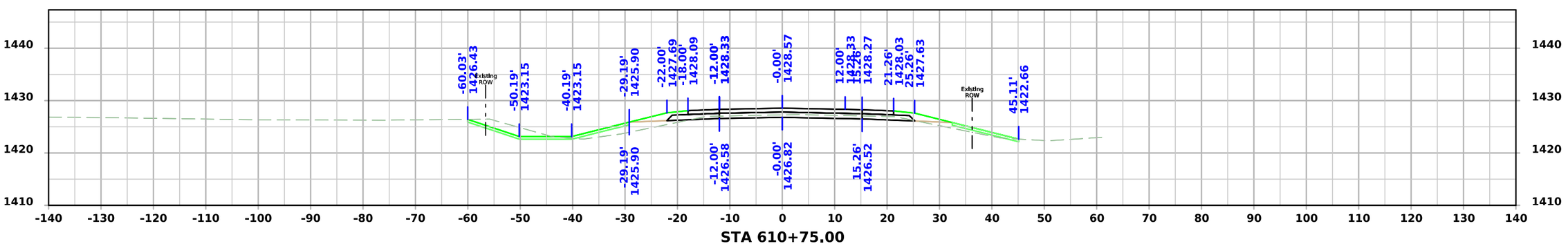
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IA 7



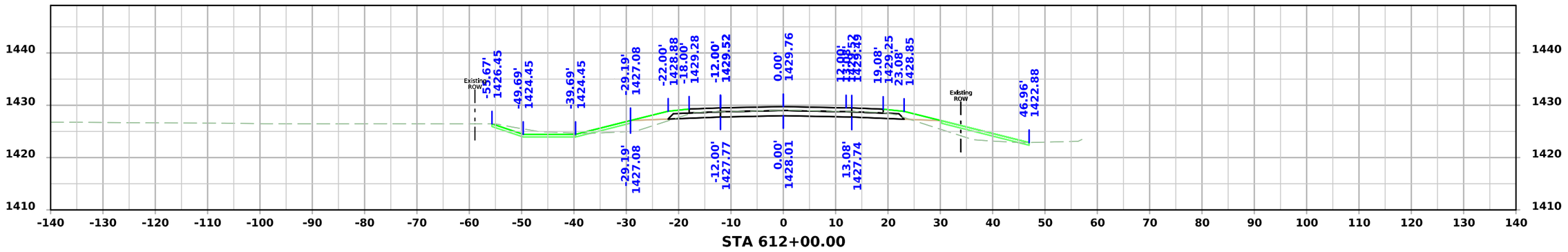


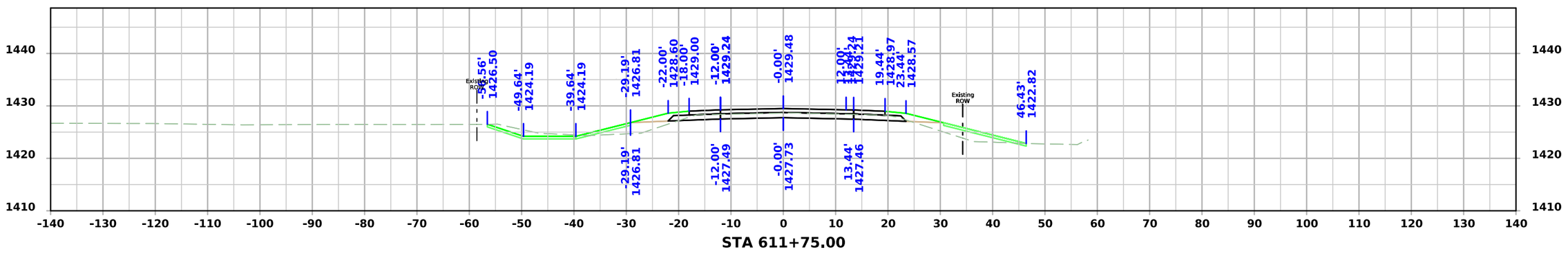


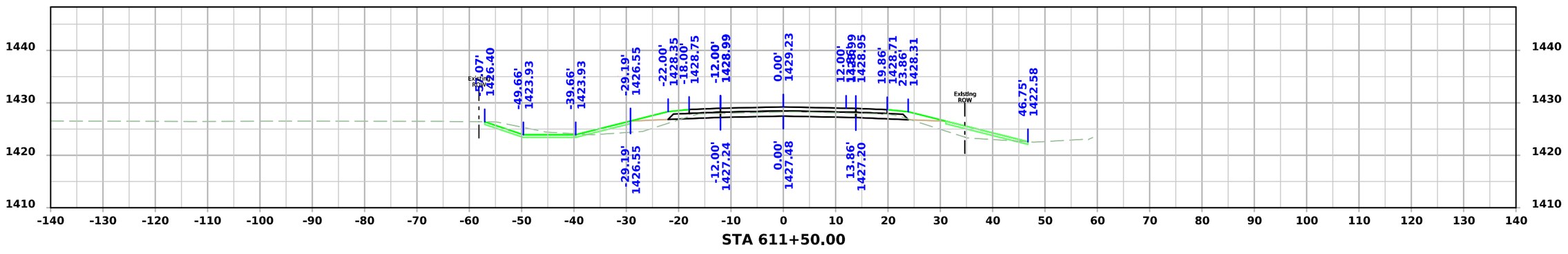
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.113**

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IA 7



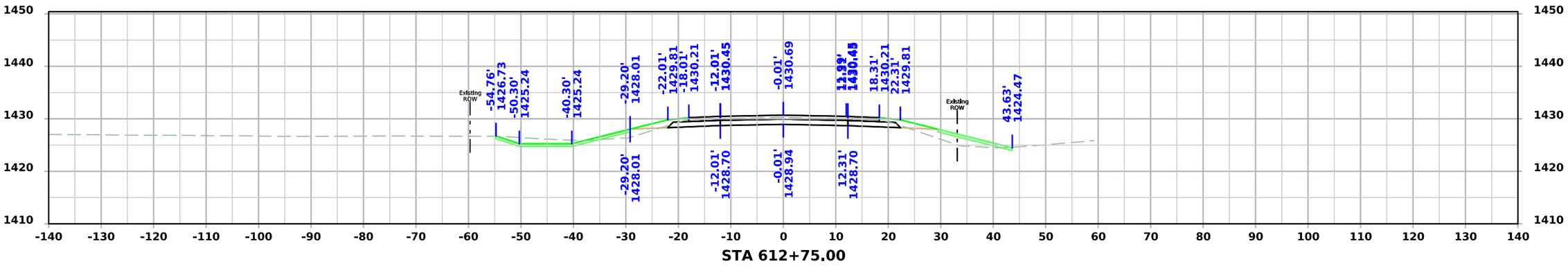




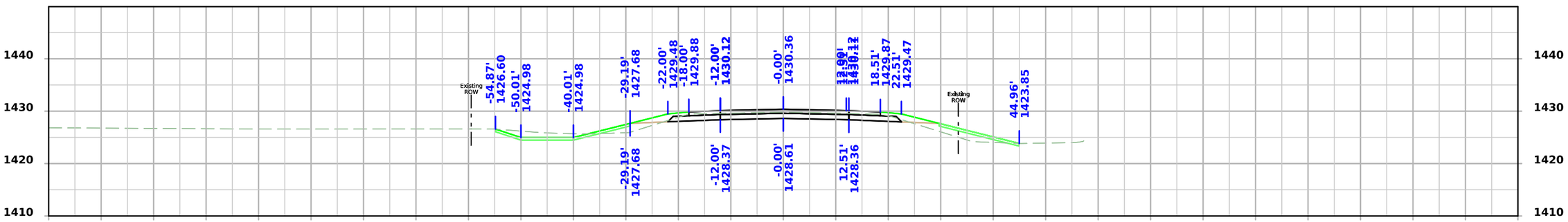
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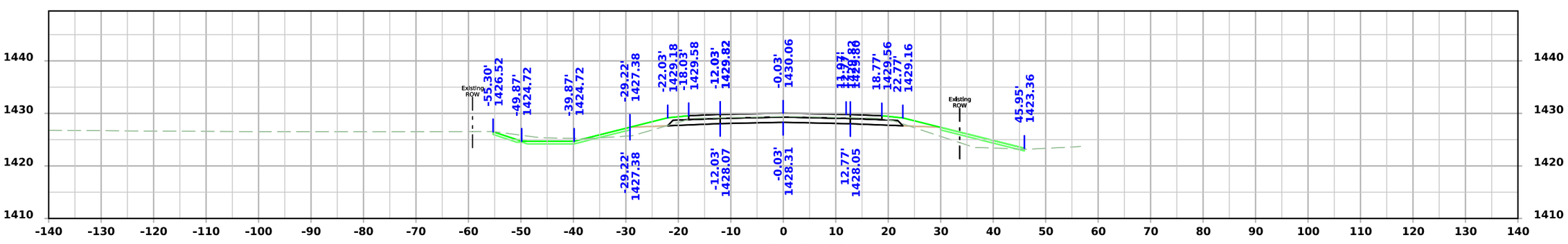
IA 7



STA 612+75.00



STA 612+50.00

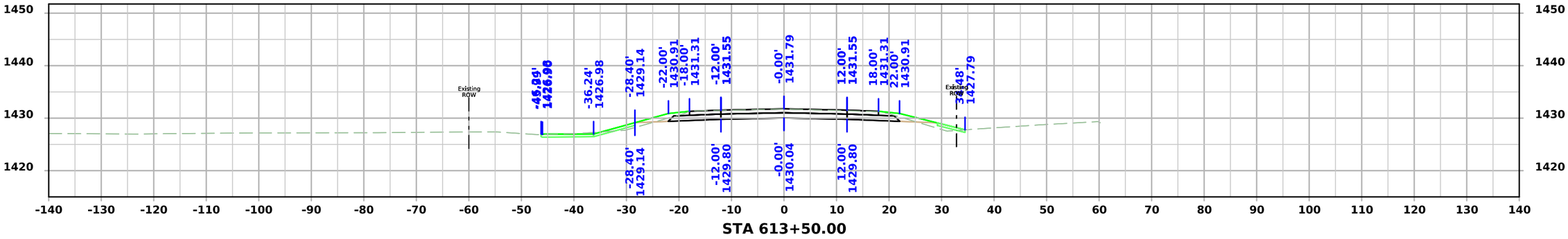


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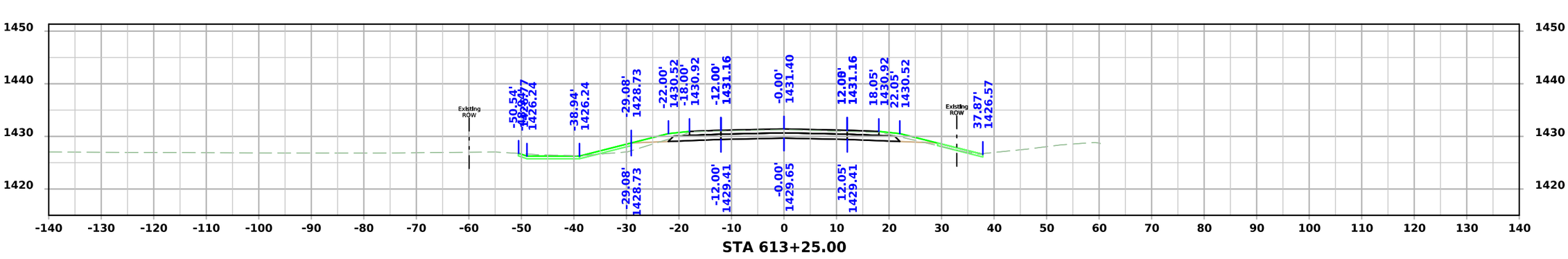
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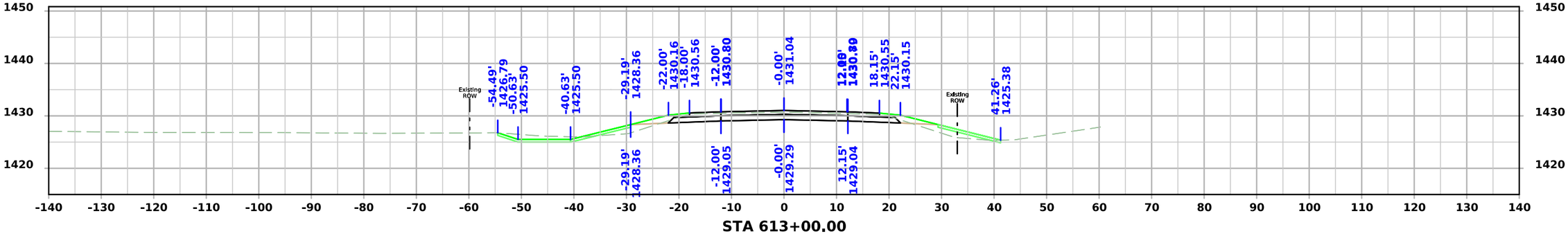
IA 7



STA 613+50.00



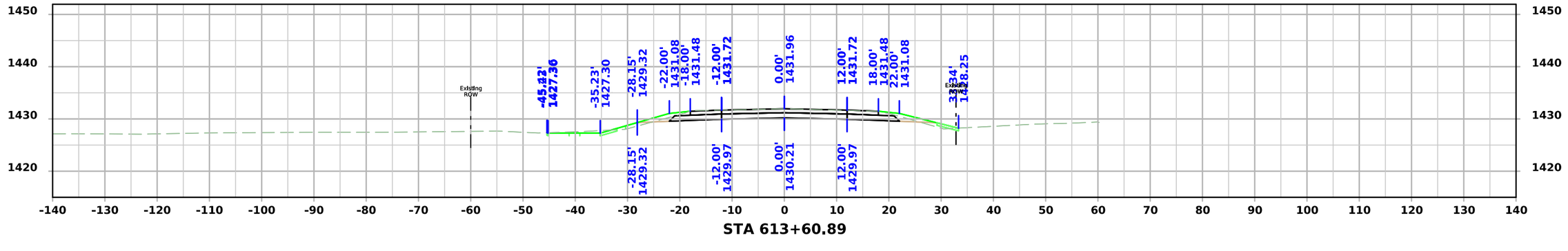
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FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.116**

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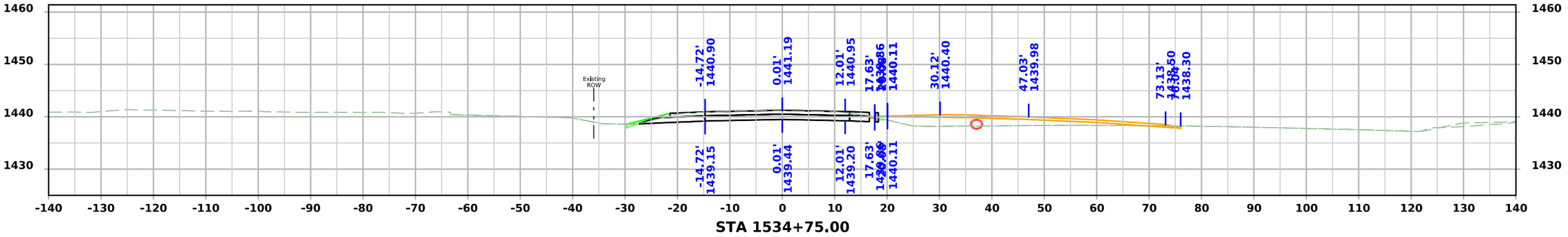


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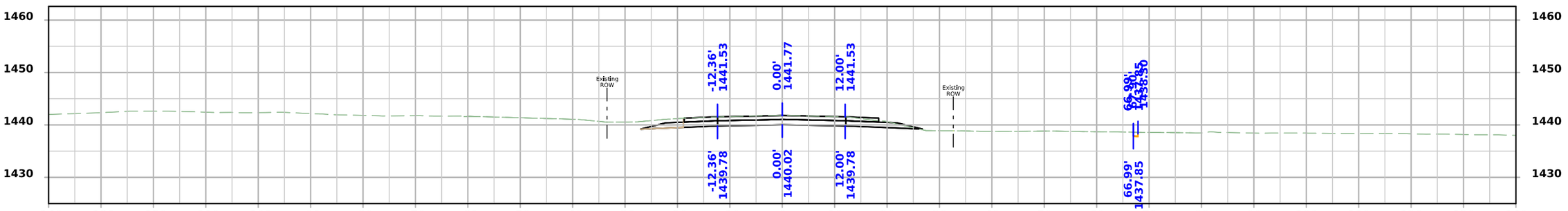
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **W.117**

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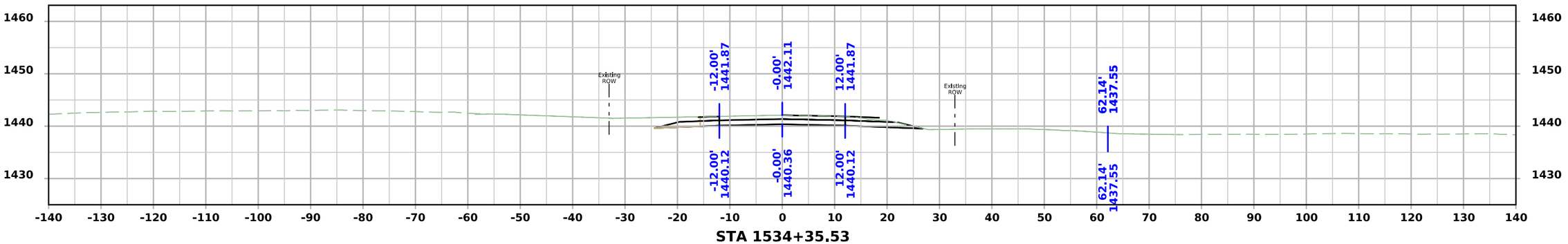
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STA 1534+75.00



STA 1534+50.00

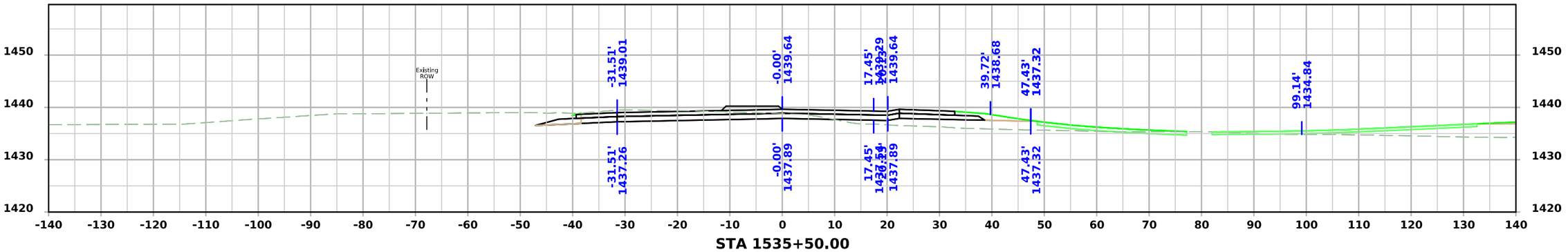


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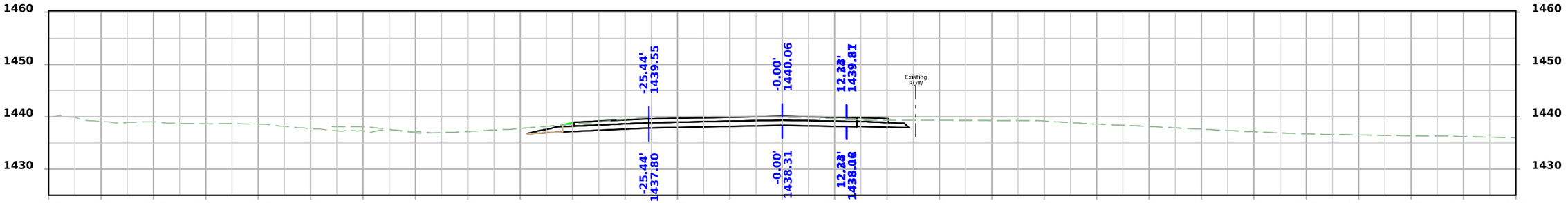
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1:47:44 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

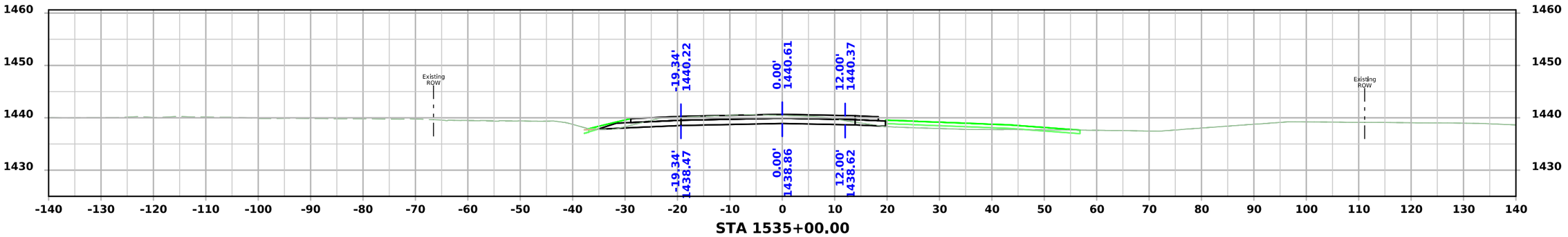
70th Ave/Villa Rd



STA 1535+50.00



STA 1535+25.00

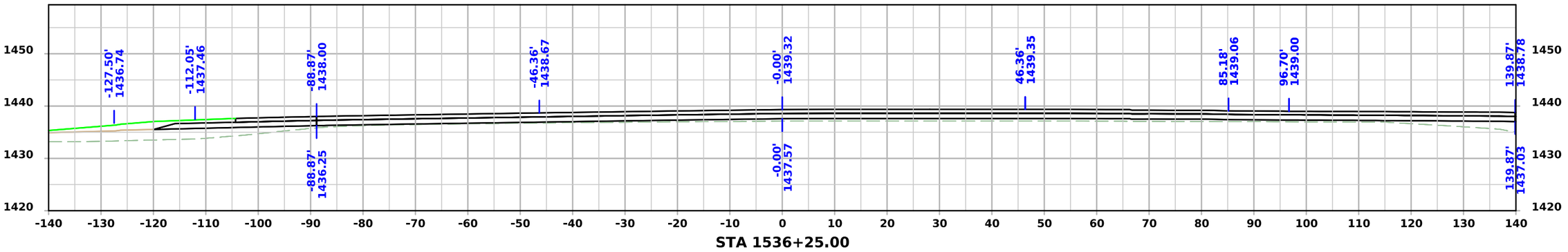


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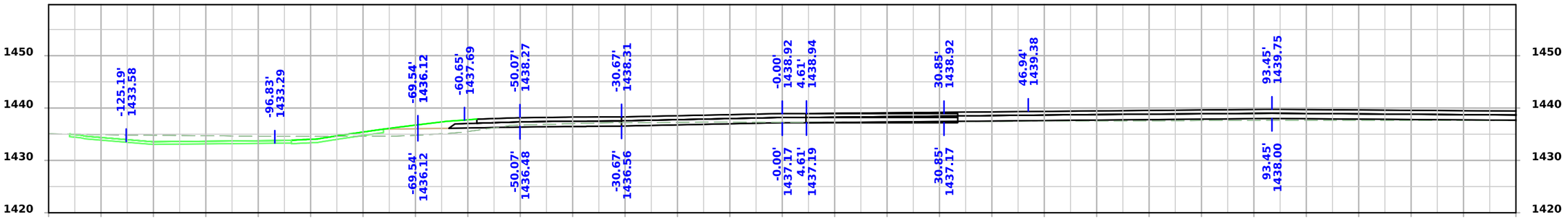
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.2**

1:47:46 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

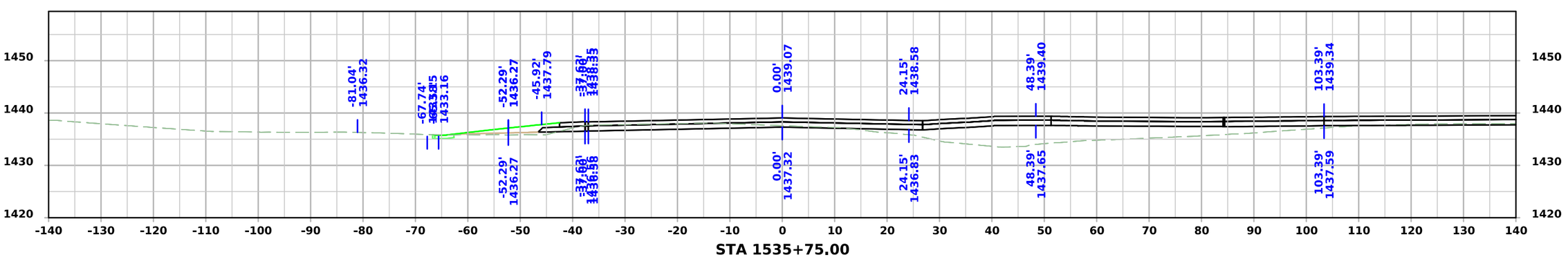
70th Ave/Villa Rd



STA 1536+25.00



STA 1536+00.00

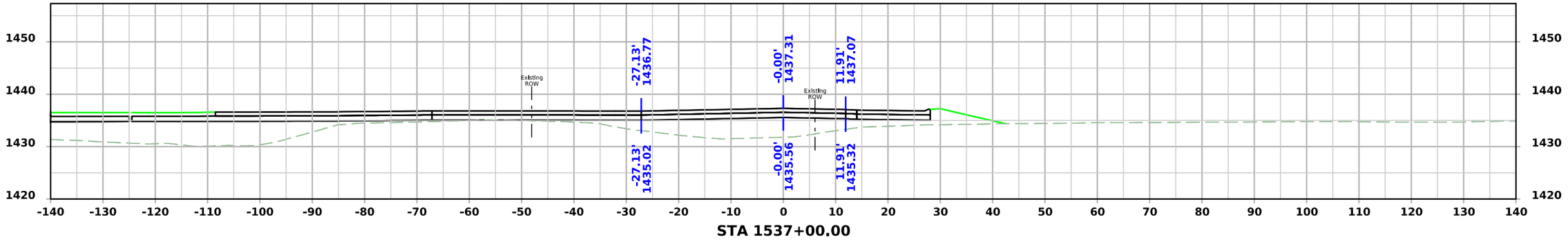


STA 1535+75.00

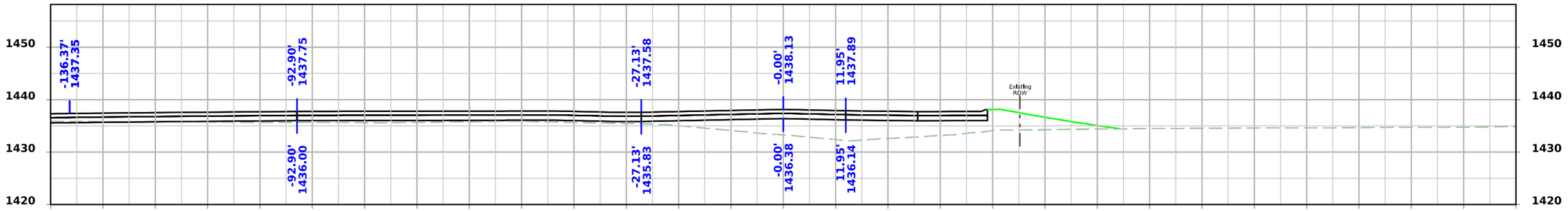
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.3**

1:47:48 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

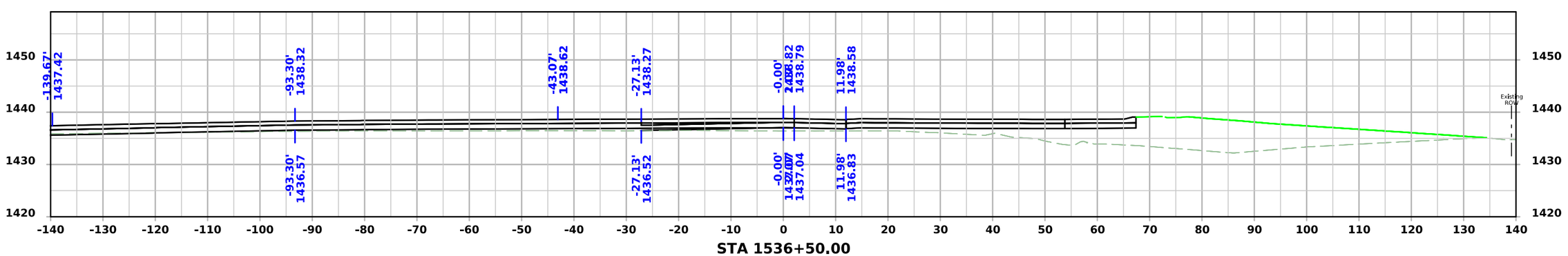
70th Ave/Villa Rd



STA 1537+00.00



STA 1536+75.00

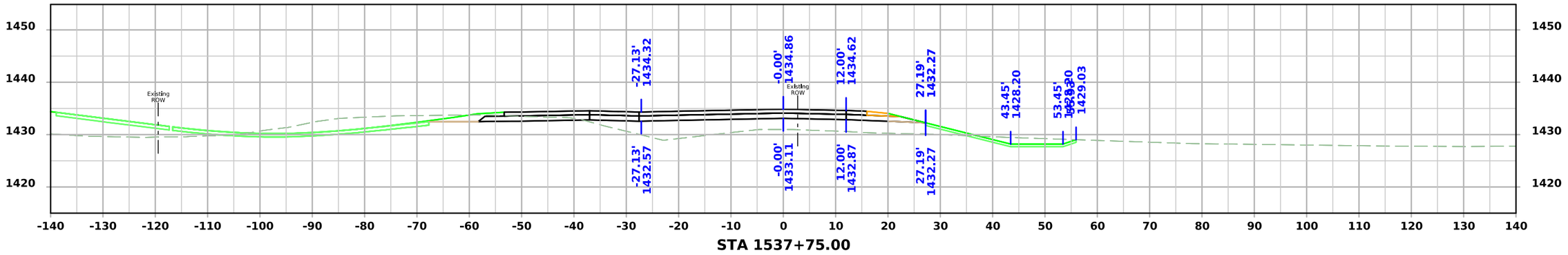


STA 1536+50.00

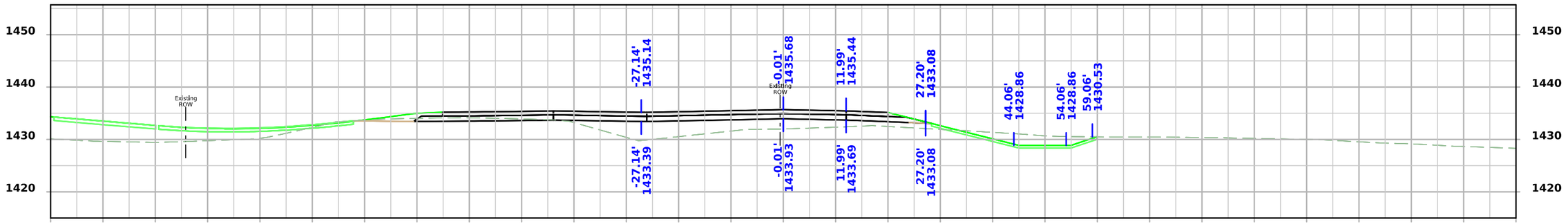
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.4**

1:47:50 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

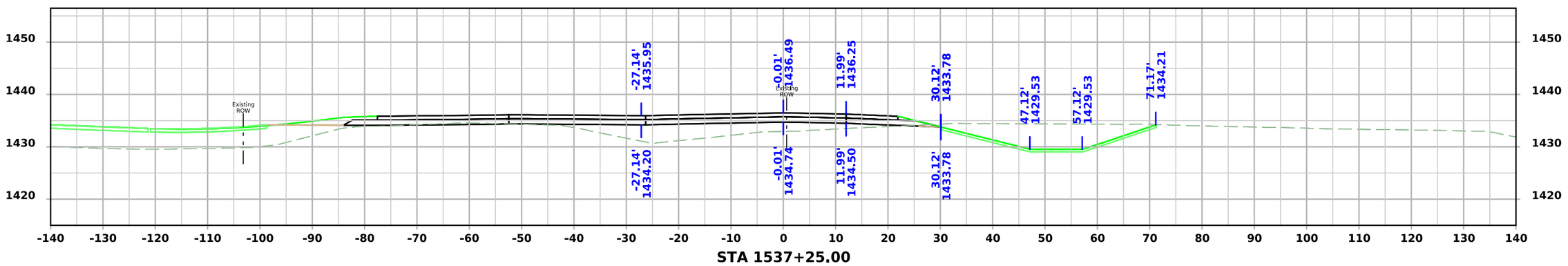
70th Ave/Villa Rd



STA 1537+75.00



STA 1537+50.00

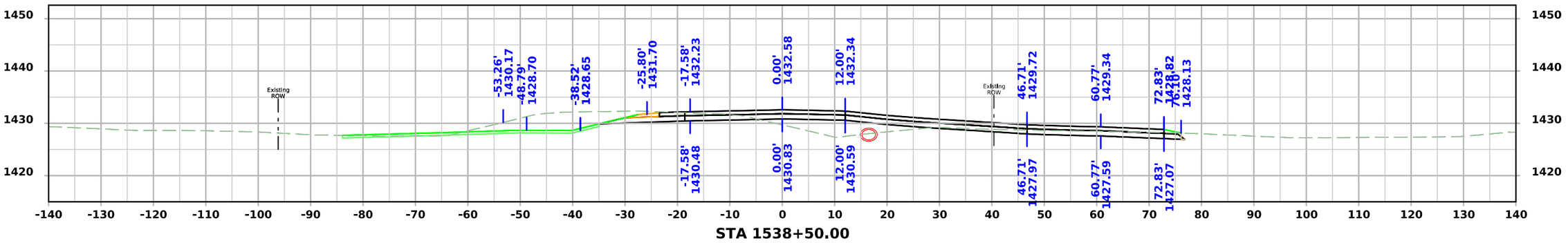


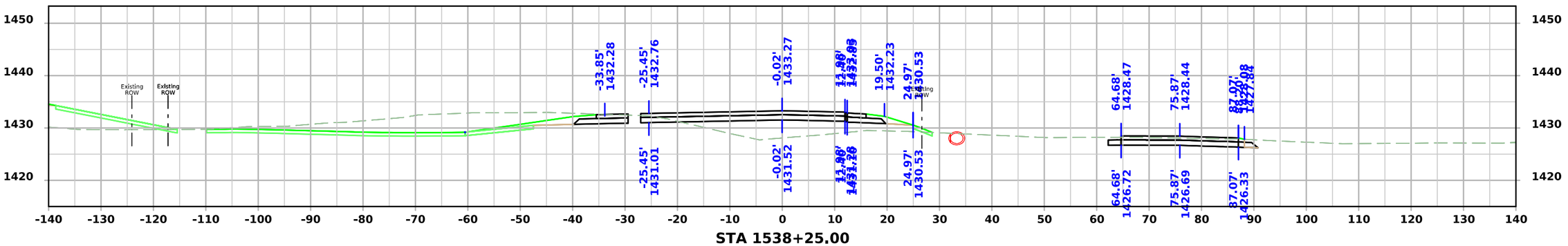
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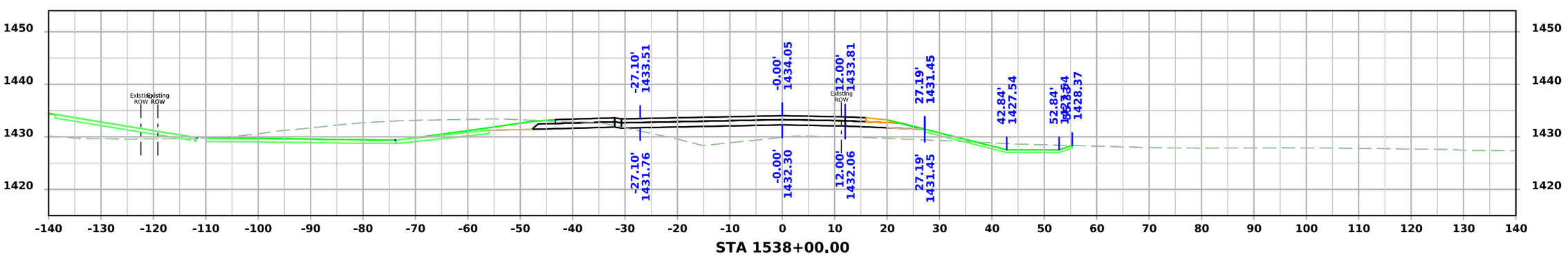
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1:47:51 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

70th Ave/Villa Rd



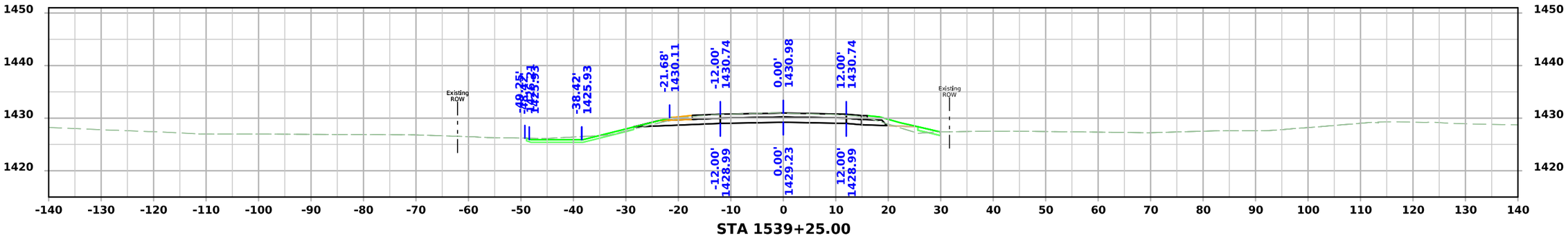




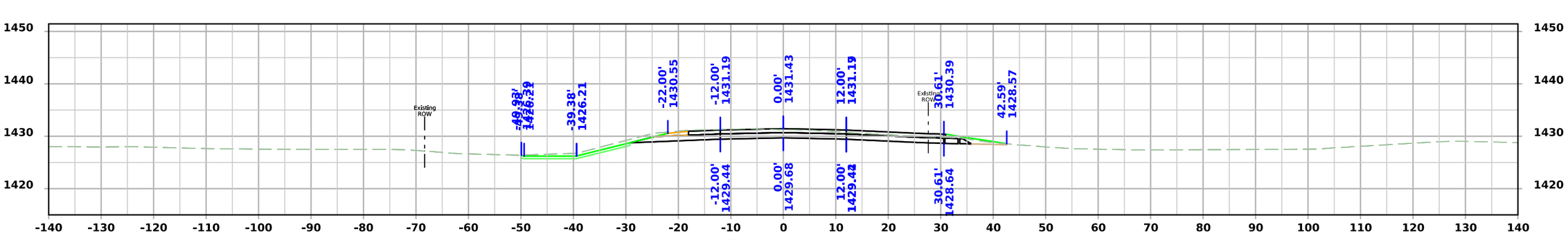
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.6**

1:47:54 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

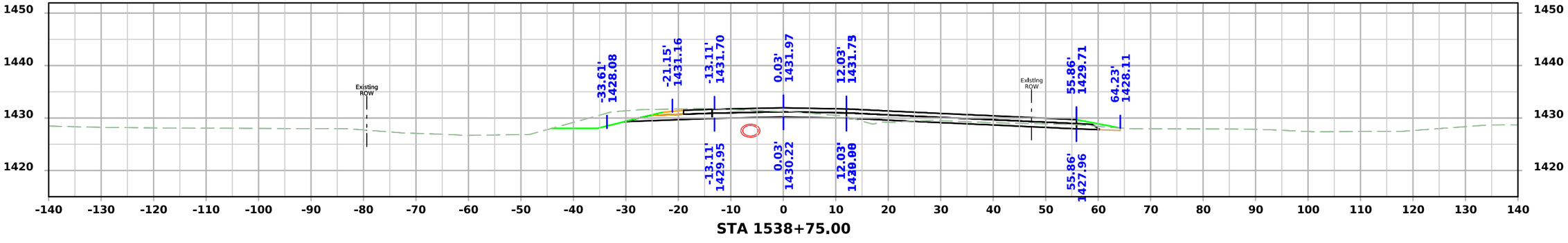
70th Ave/Villa Rd



STA 1539+25.00



STA 1539+00.00

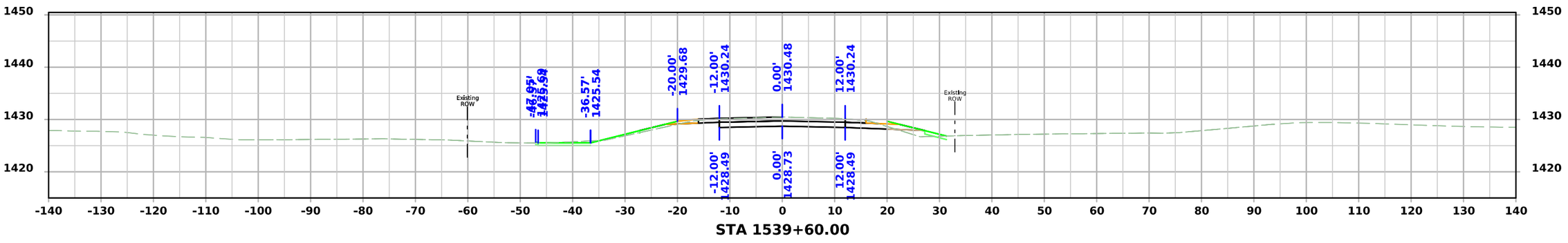


STA 1538+75.00

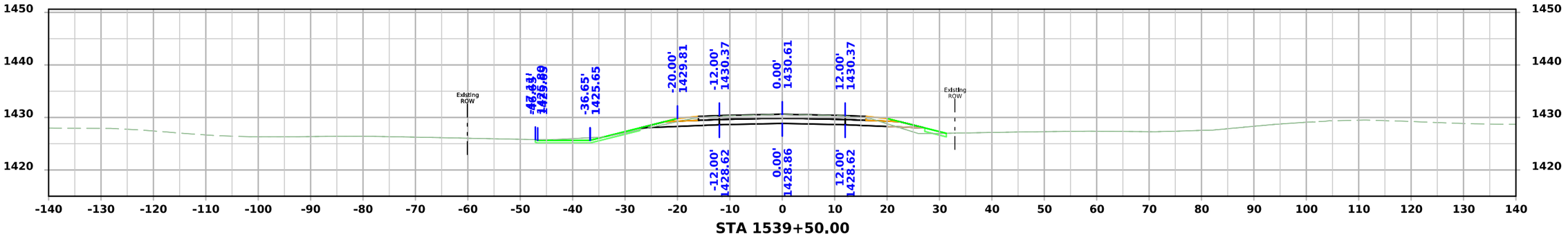
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.7**

1:47:56 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR70_11007038Z04.dgn

70th Ave/Villa Rd



STA 1539+60.00

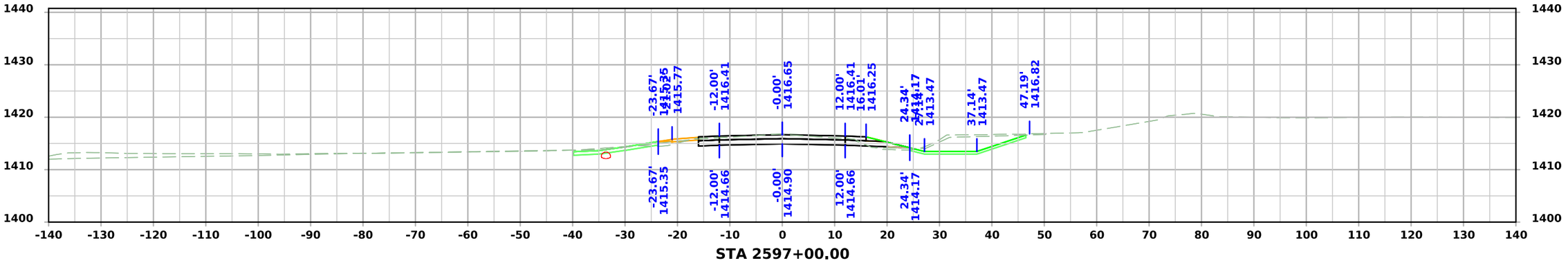


STA 1539+50.00

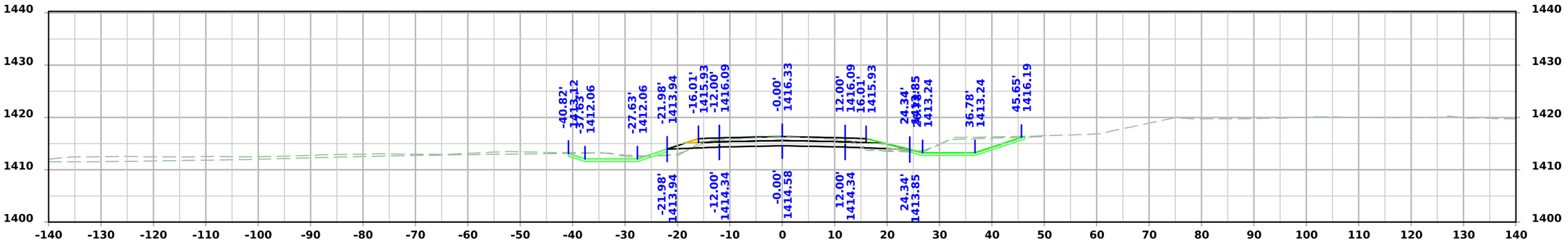
FILE NO.	ENGLISH	DESIGN TEAM Iowa DOT / HNTB	BUENA VISTA COUNTY	PROJECT NUMBER RP-007-2(038)--16-11	SHEET NUMBER X.8

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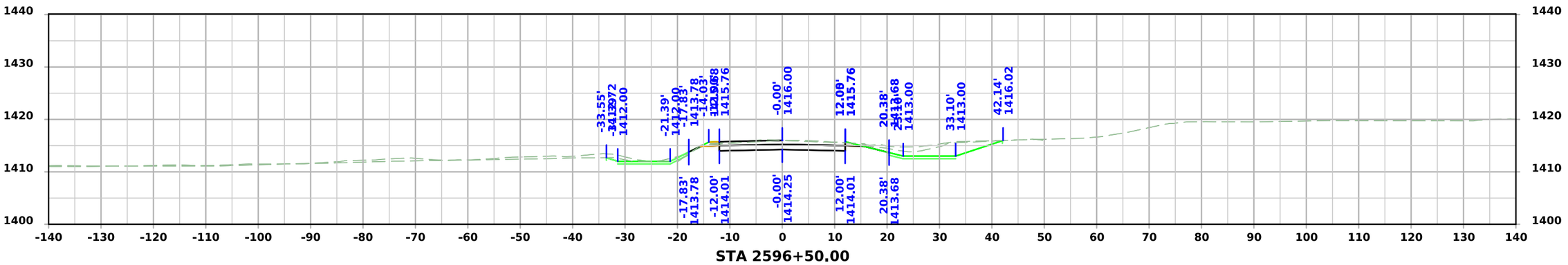
80th Ave



STA 2597+00.00



STA 2596+75.00

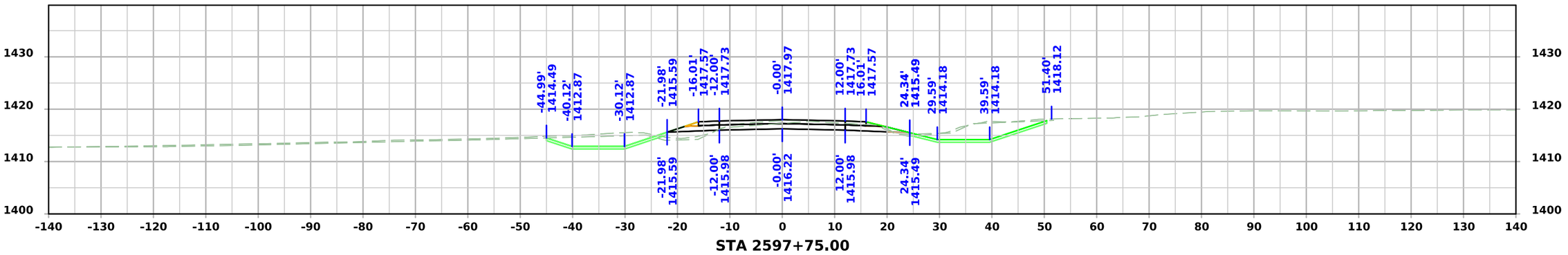


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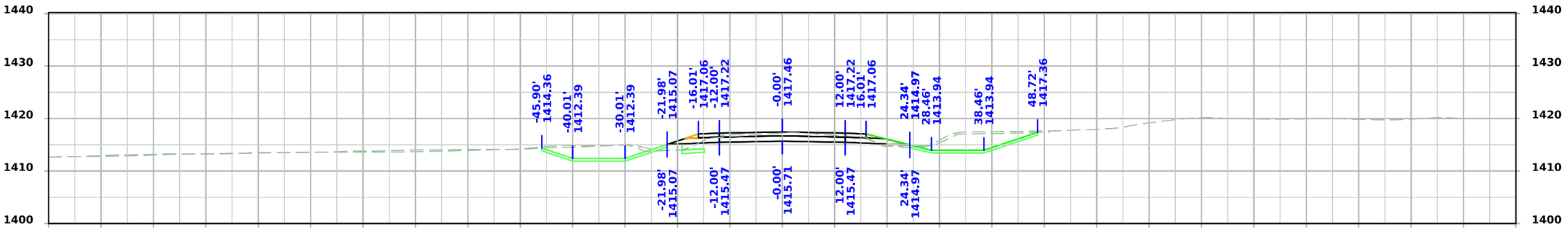
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.9**	

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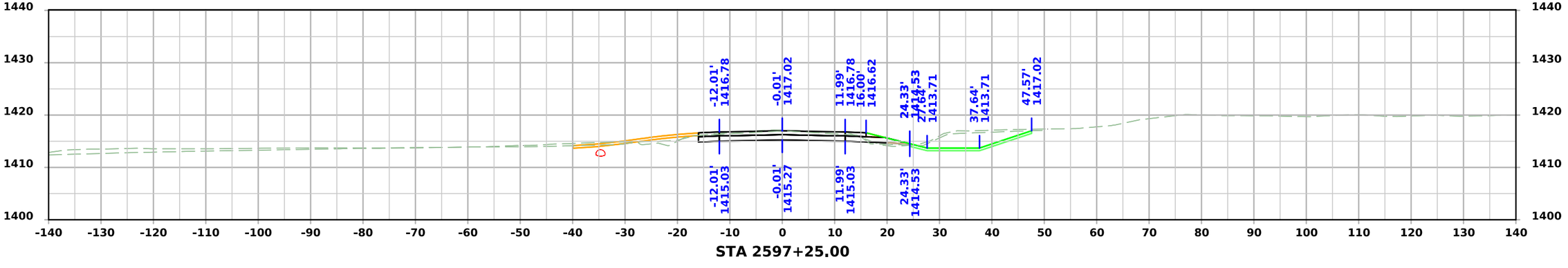
80th Ave



STA 2597+75.00



STA 2597+50.00

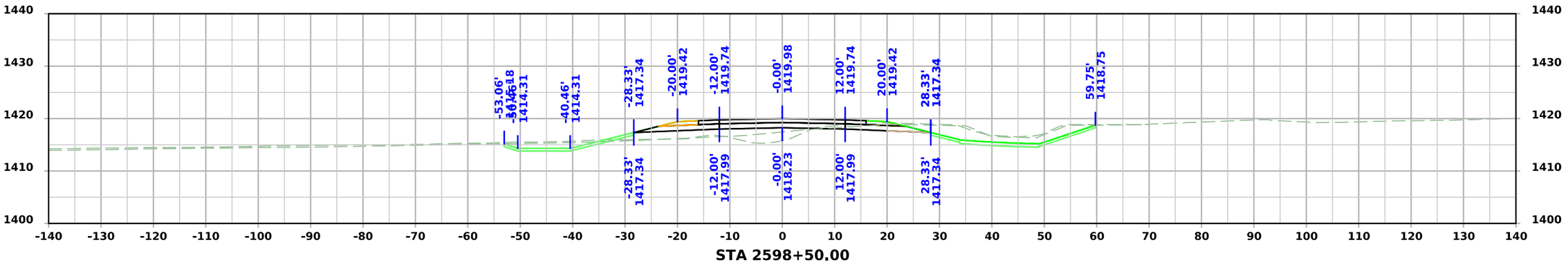


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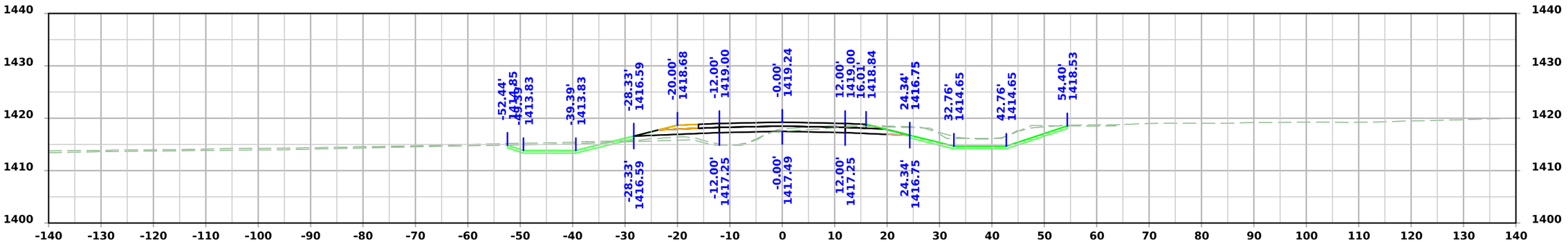
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1:48:11 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

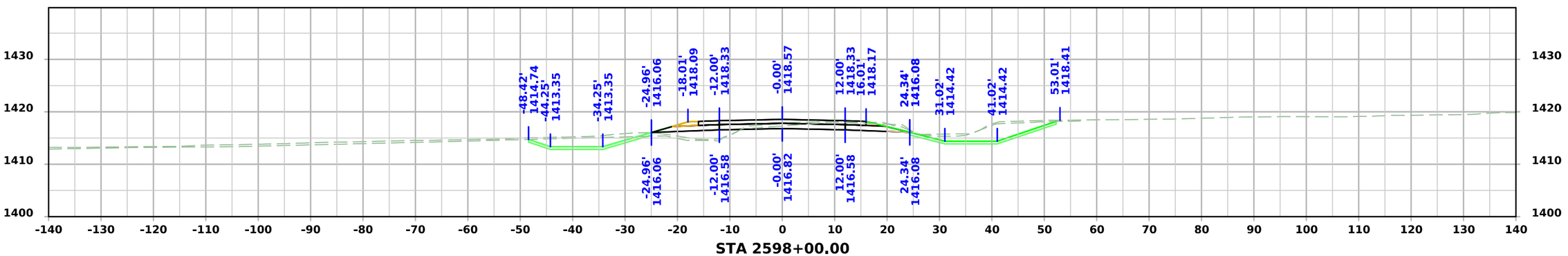
80th Ave



STA 2598+50.00



STA 2598+25.00

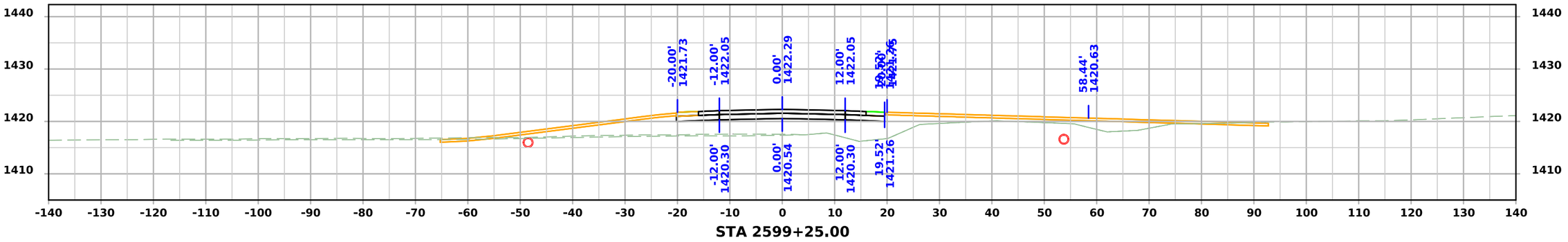


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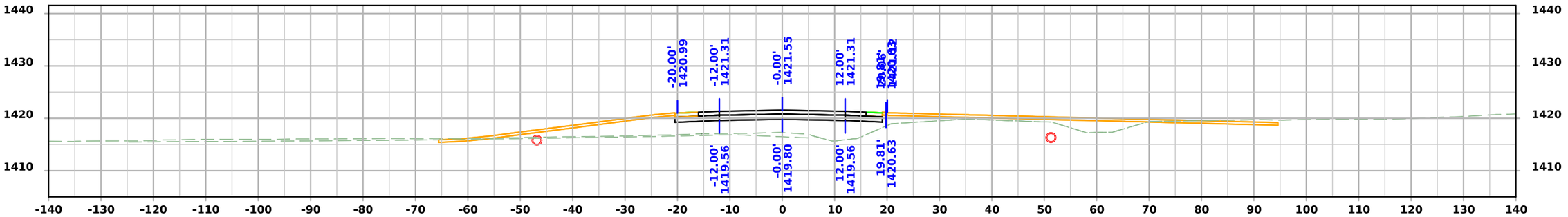
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.11**

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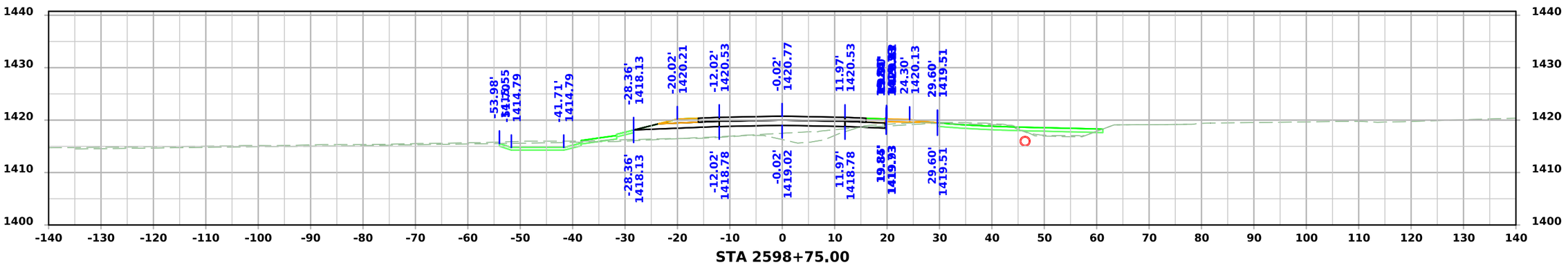
80th Ave



STA 2599+25.00



STA 2599+00.00

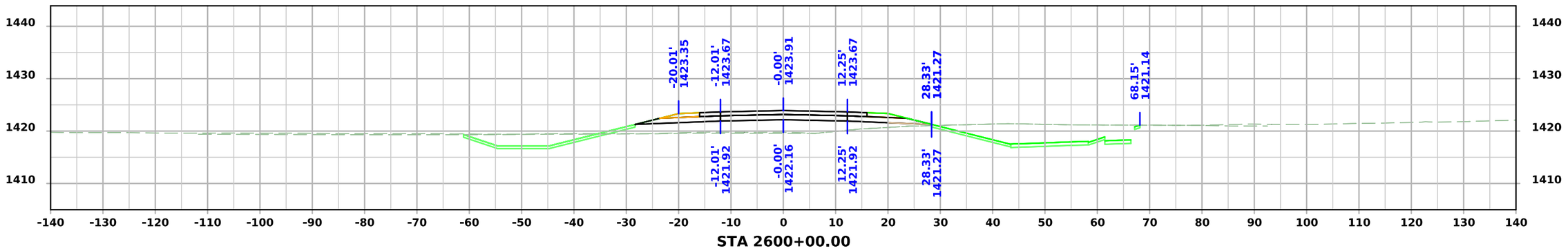


STA 2598+75.00

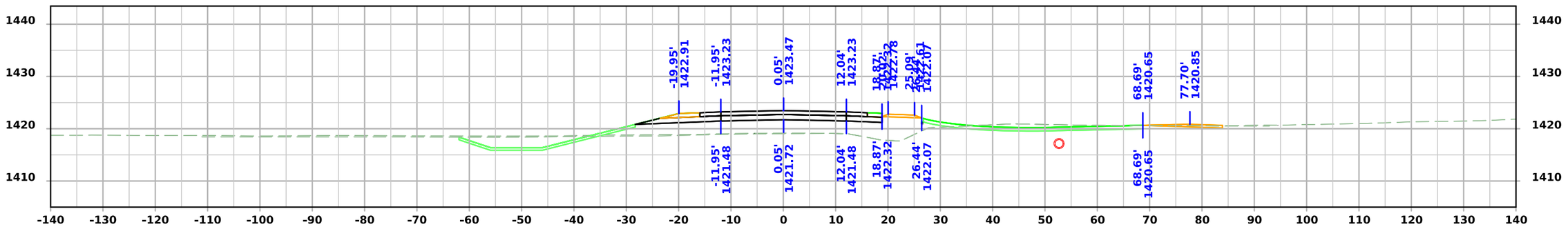
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.12**

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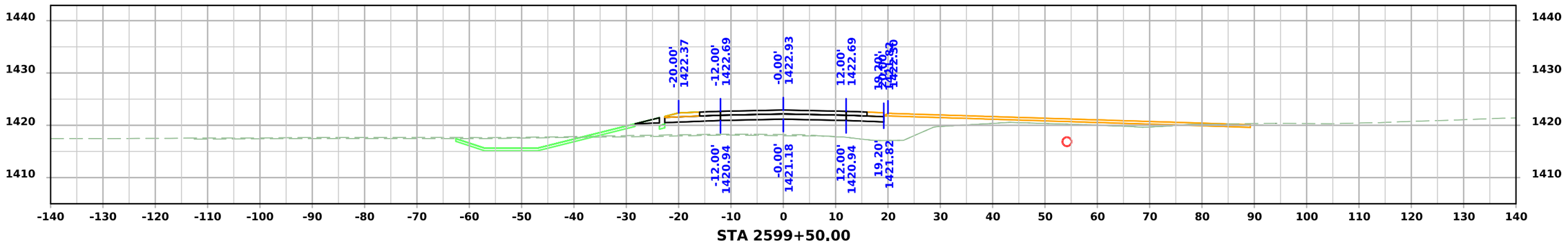
80th Ave



STA 2600+00.00



STA 2599+75.00

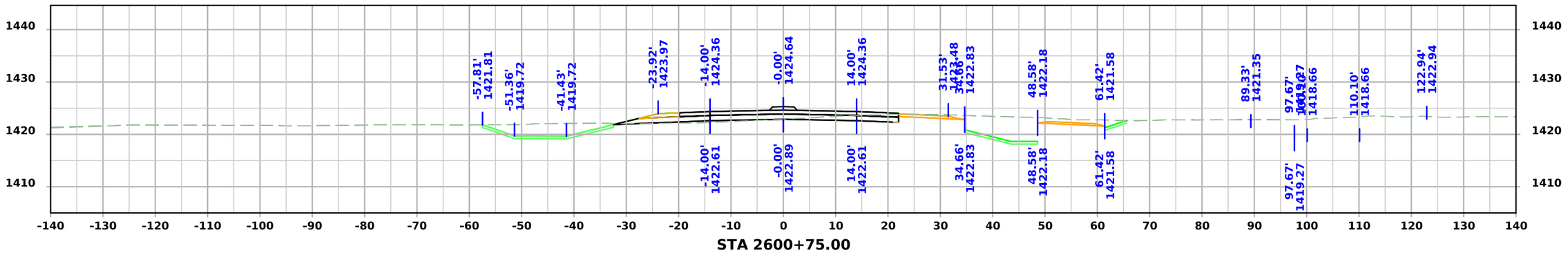


STA 2599+50.00

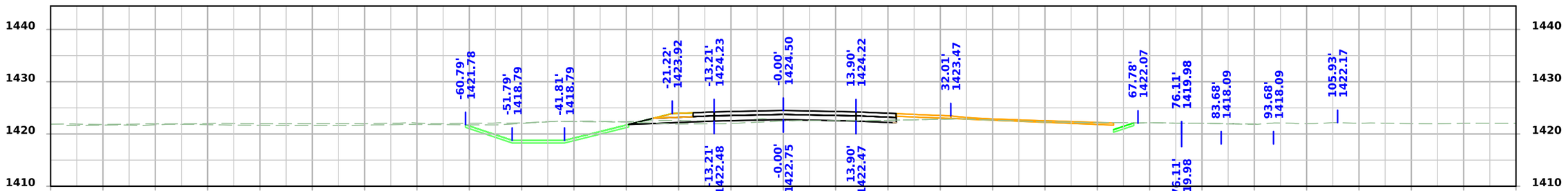
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.13**

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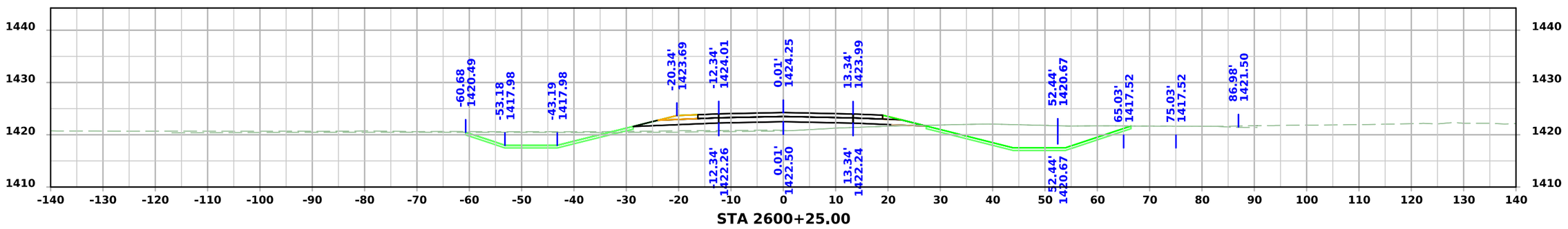
80th Ave



STA 2600+75.00



STA 2600+50.00

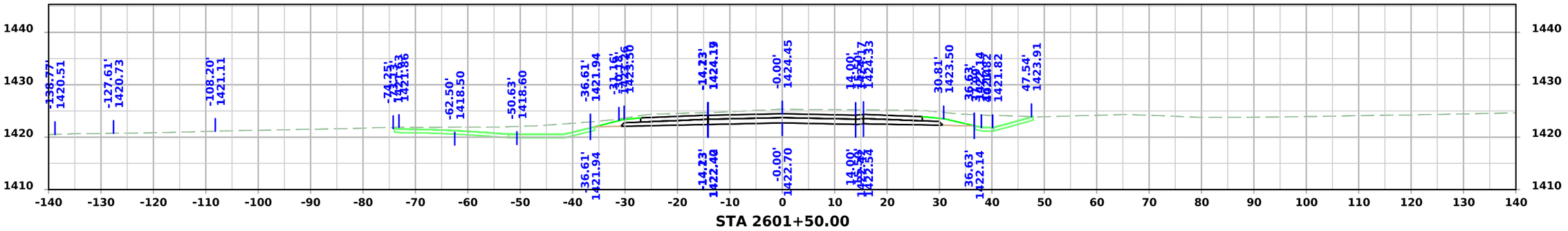


STA 2600+25.00

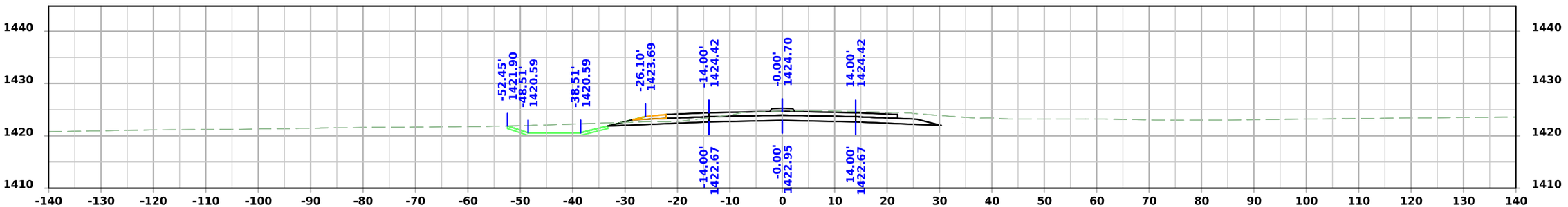
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.14**

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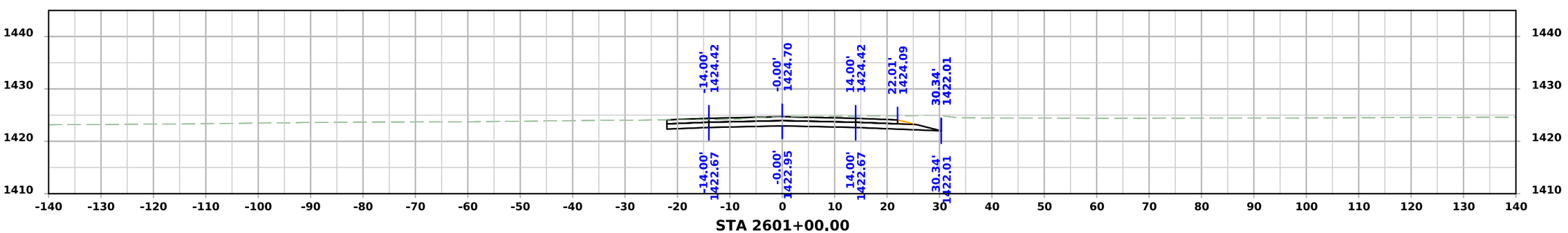
80th Ave



STA 2601+50.00



STA 2601+25.00

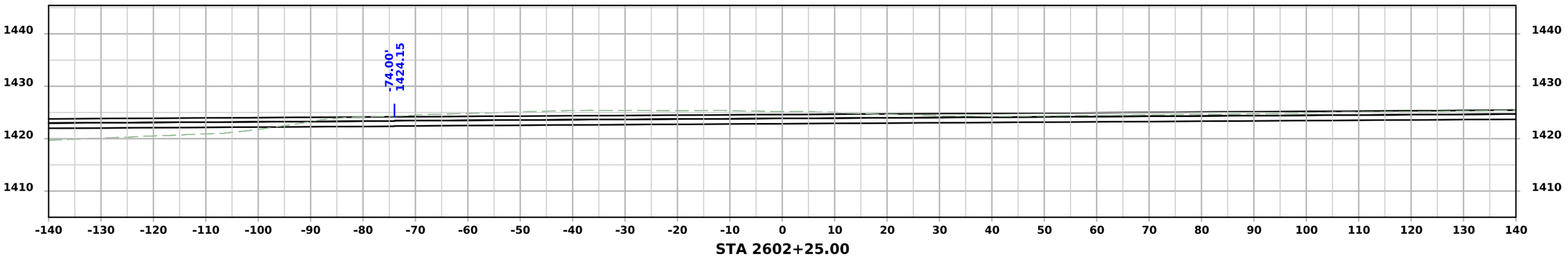


STA 2601+00.00

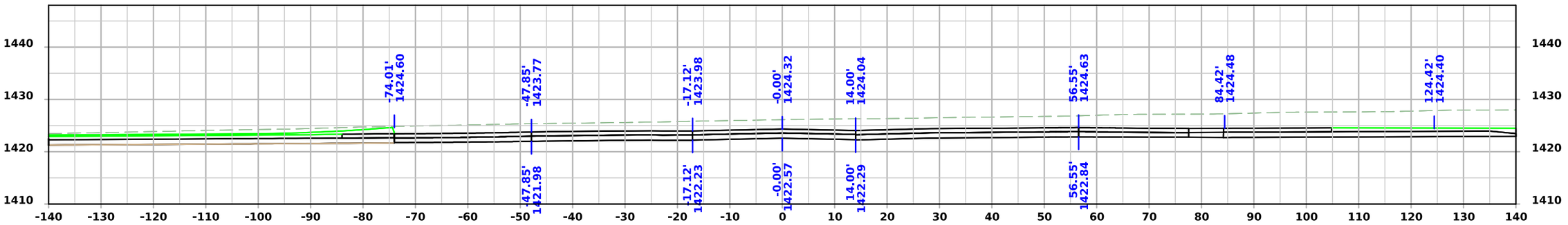
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.15**	

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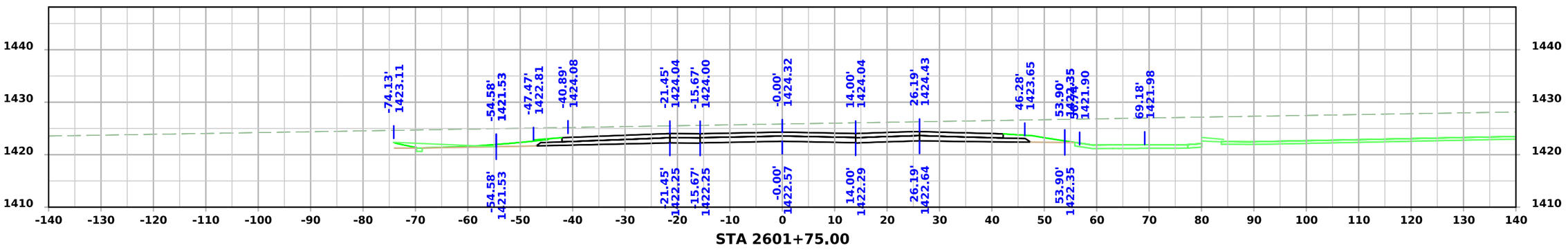
80th Ave



STA 2602+25.00



STA 2602+00.00

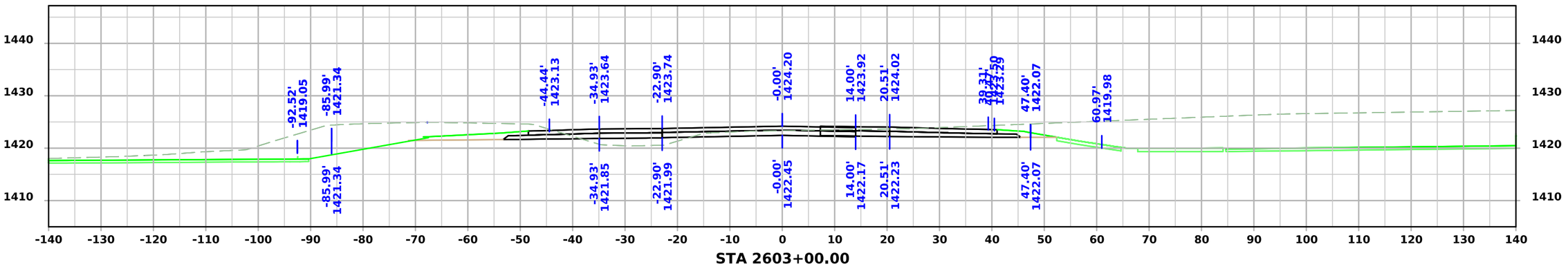


STA 2601+75.00

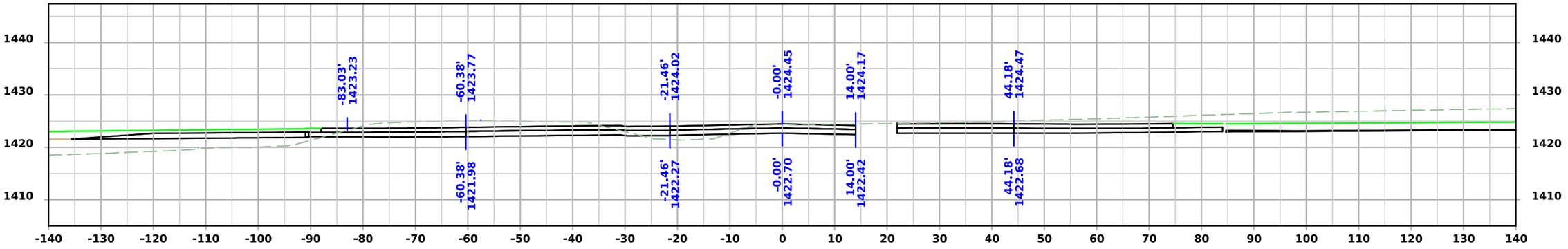
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.16**	

1:48:24 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

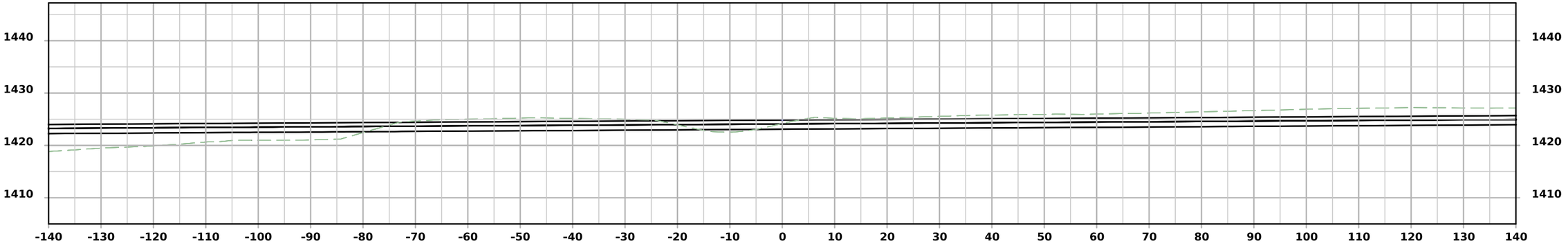
80th Ave



STA 2603+00.00



STA 2602+75.00

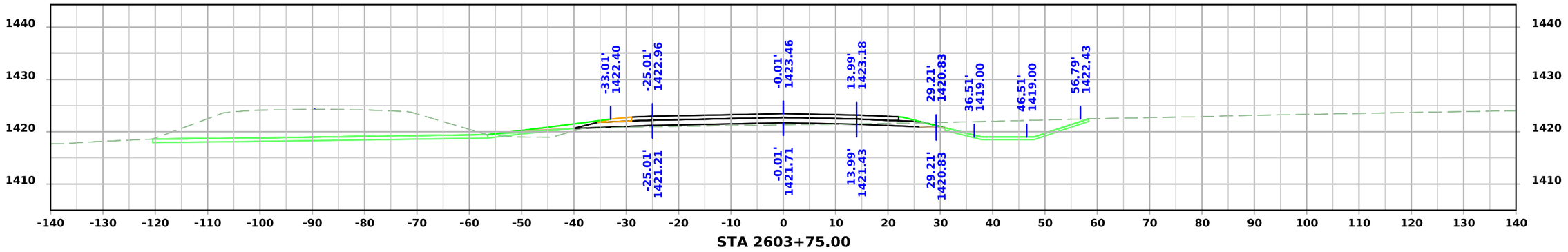


STA 2602+50.00

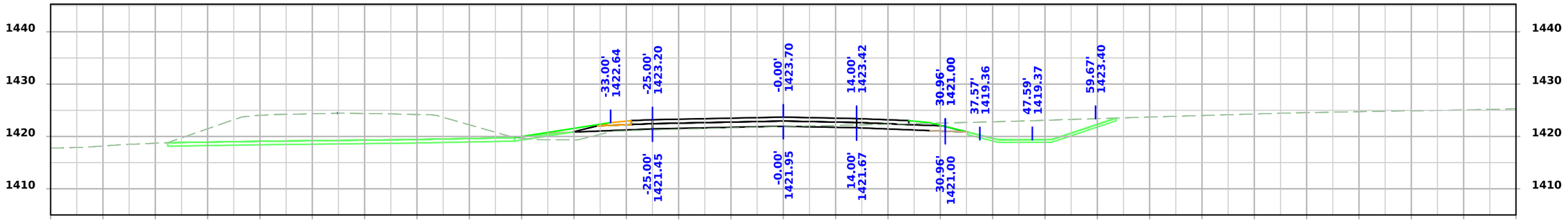
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.17**

1:48:26 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

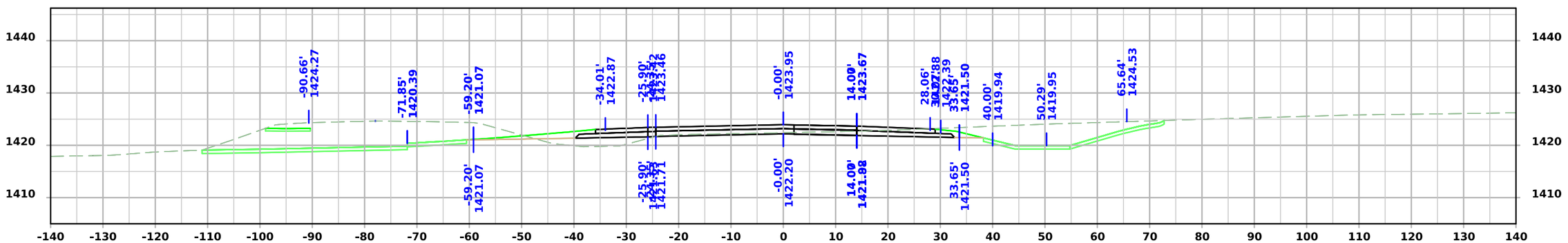
80th Ave



STA 2603+75.00



STA 2603+50.00

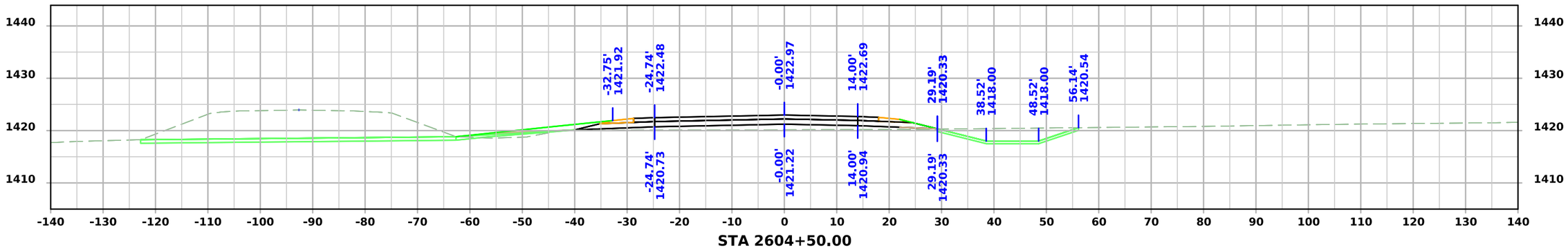


STA 2603+25.00

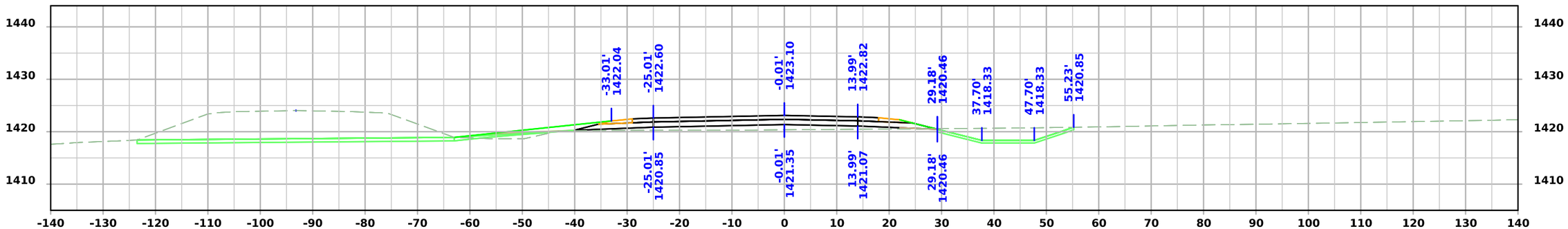
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.18**

1:48:28 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

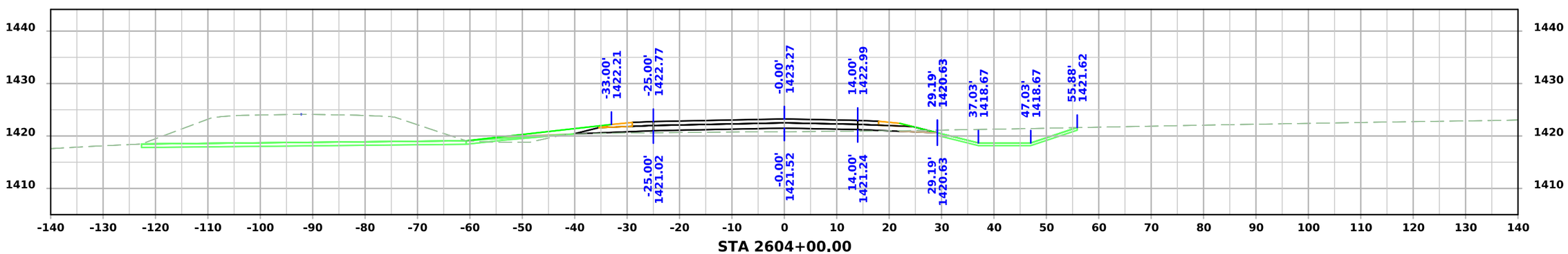
80th Ave



STA 2604+50.00



STA 2604+25.00

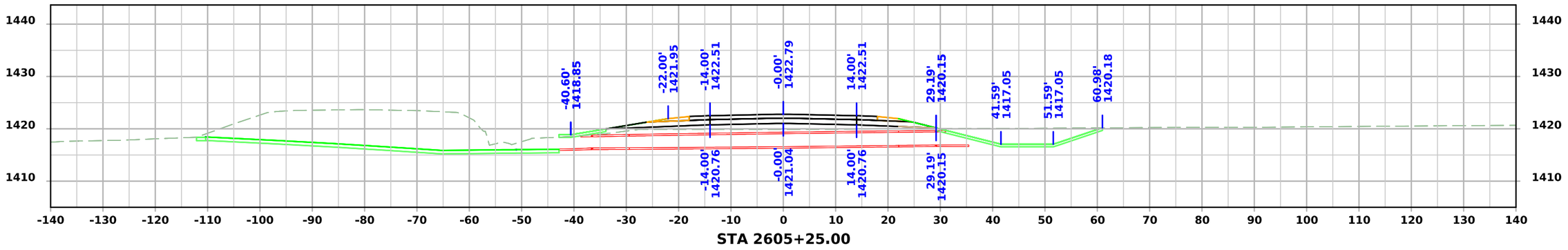


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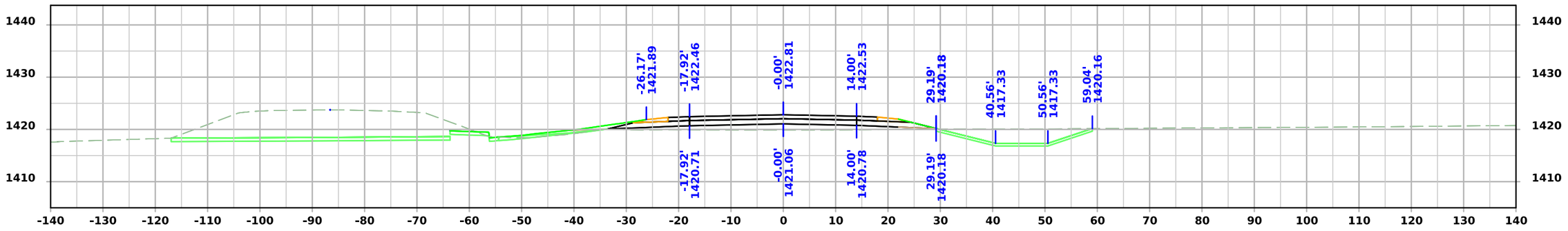
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.19**	

1:48:30 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

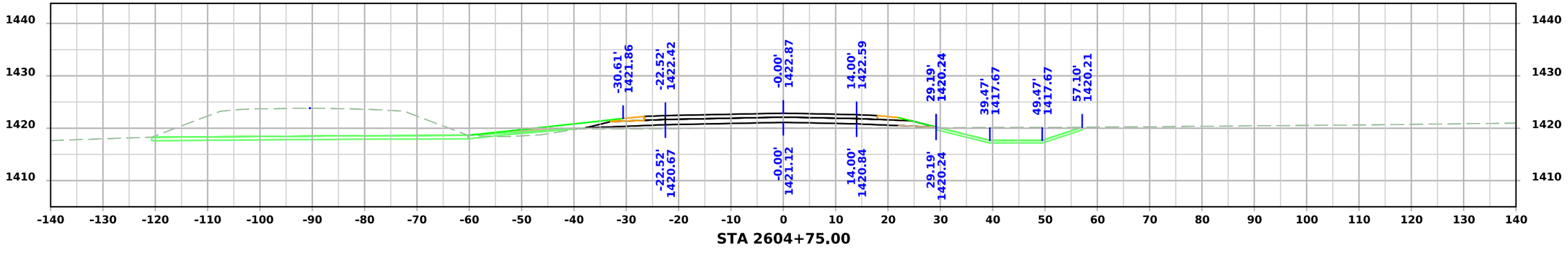
80th Ave



STA 2605+25.00



STA 2605+00.00

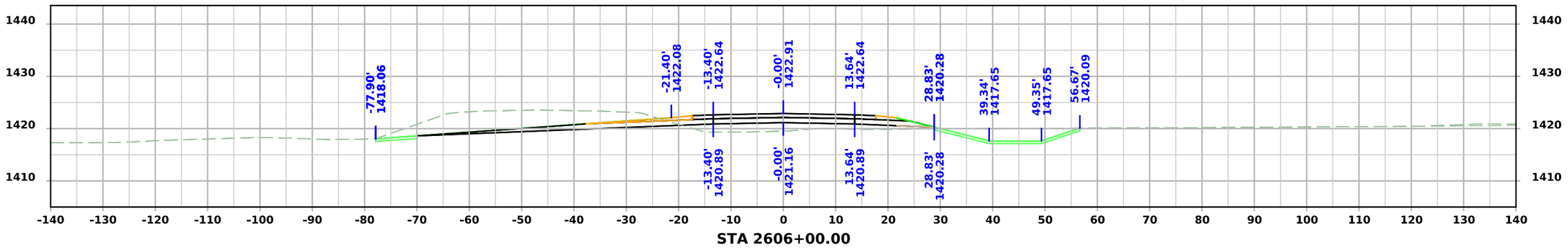


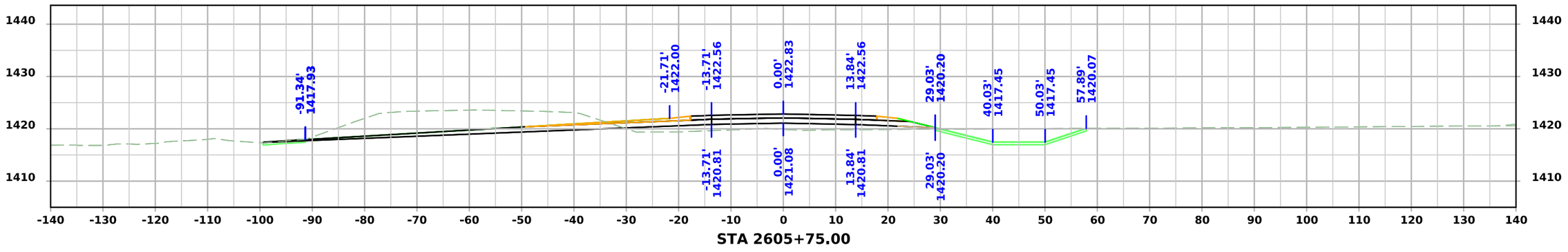
STA 2604+75.00

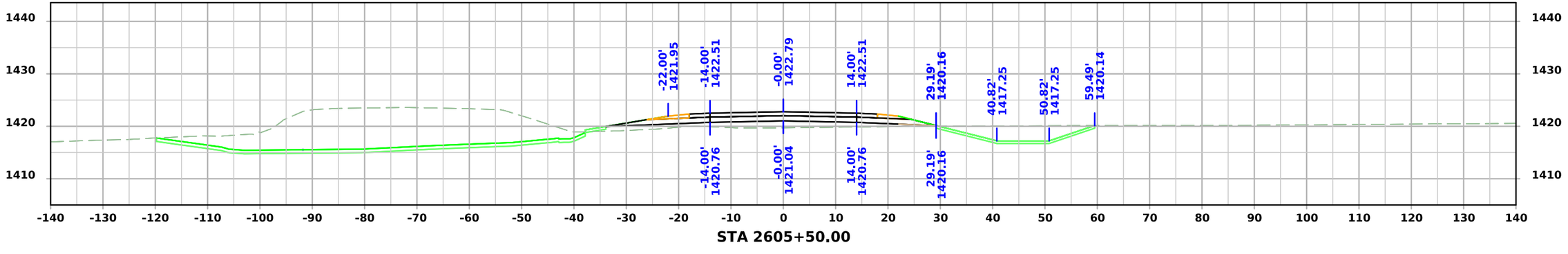
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.20**

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80th Ave



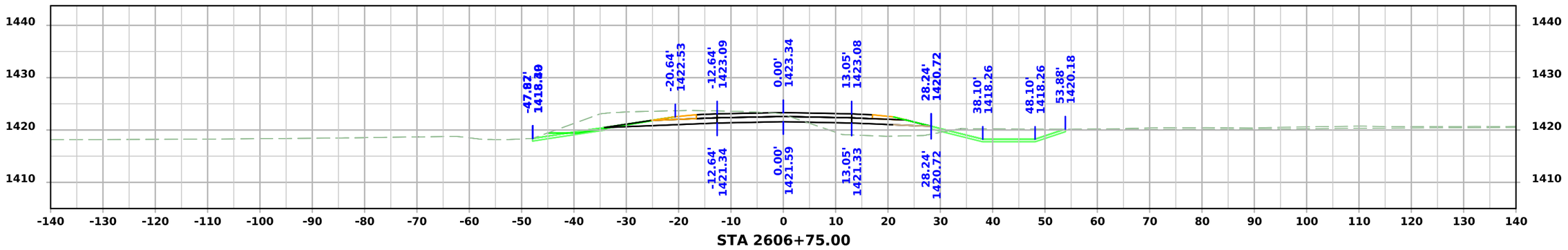




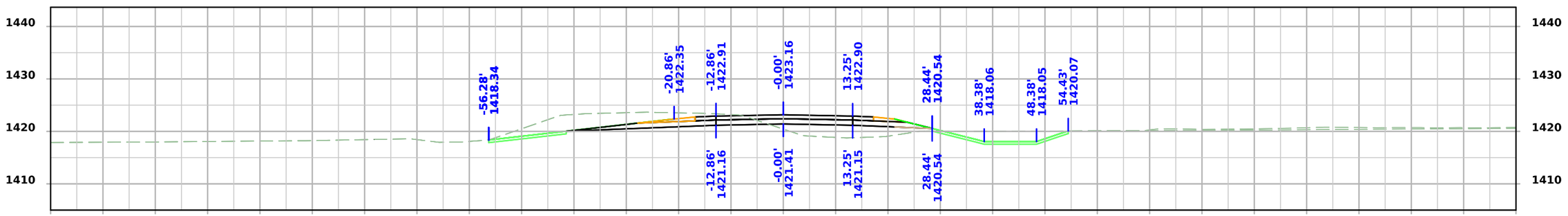
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.21**

1:48:34 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

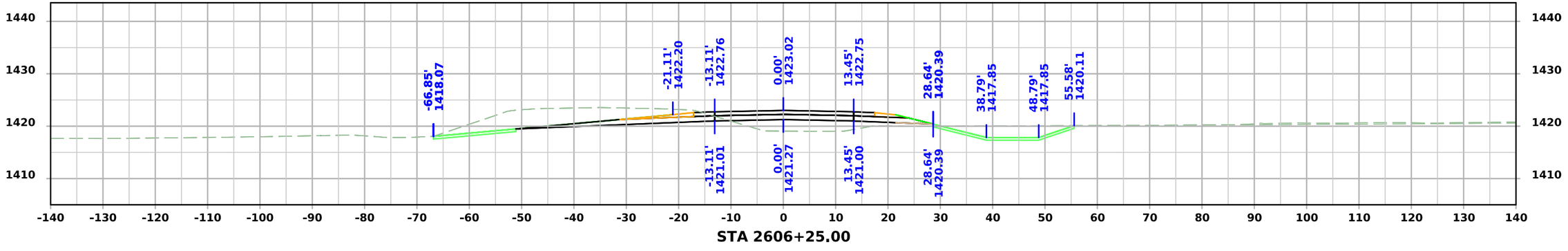
80th Ave



STA 2606+75.00



STA 2606+50.00

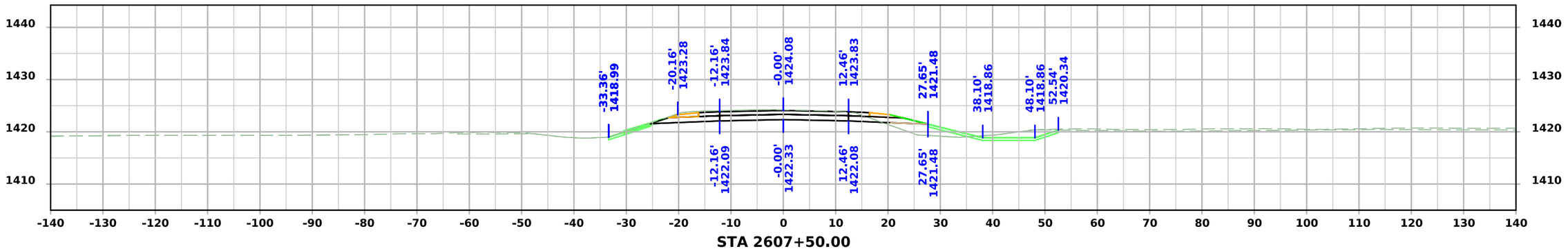


STA 2606+25.00

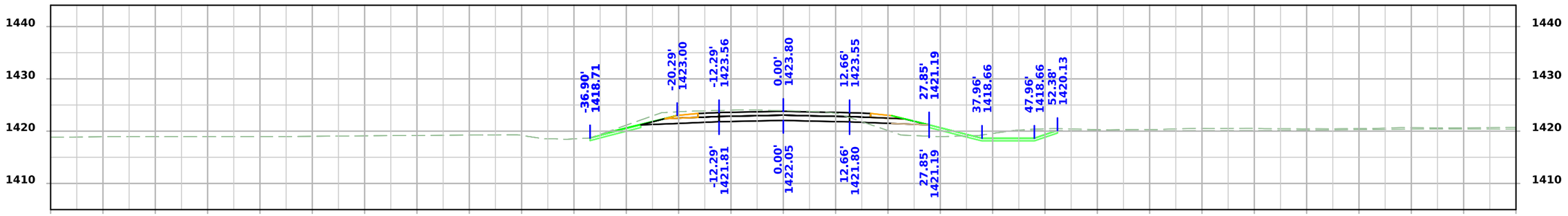
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.22**

1:48:36 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn

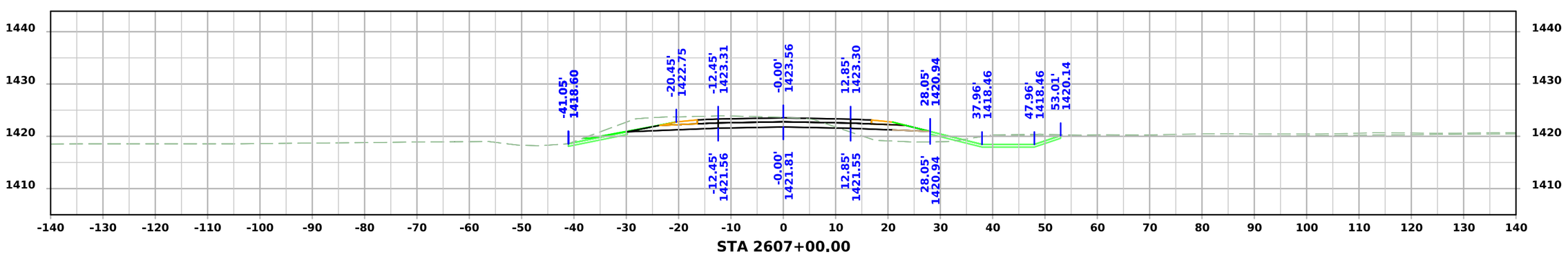
80th Ave



STA 2607+50.00



STA 2607+25.00

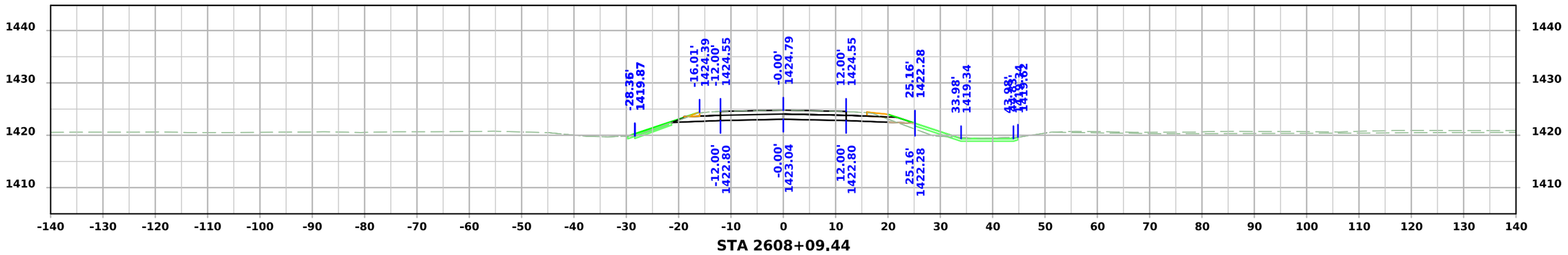


STA 2607+00.00

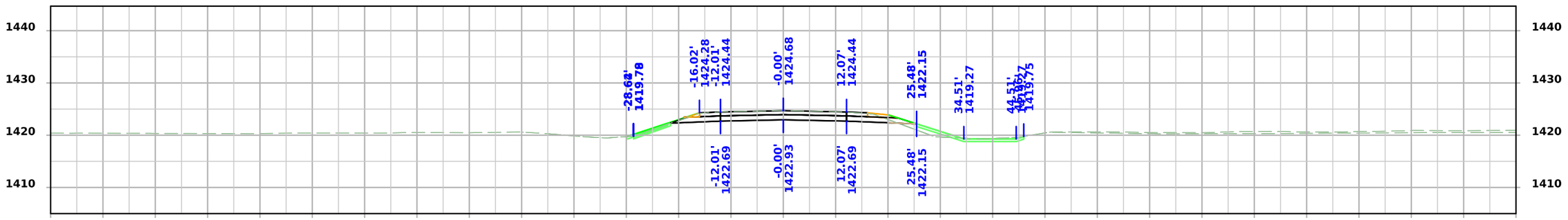
FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.23**	

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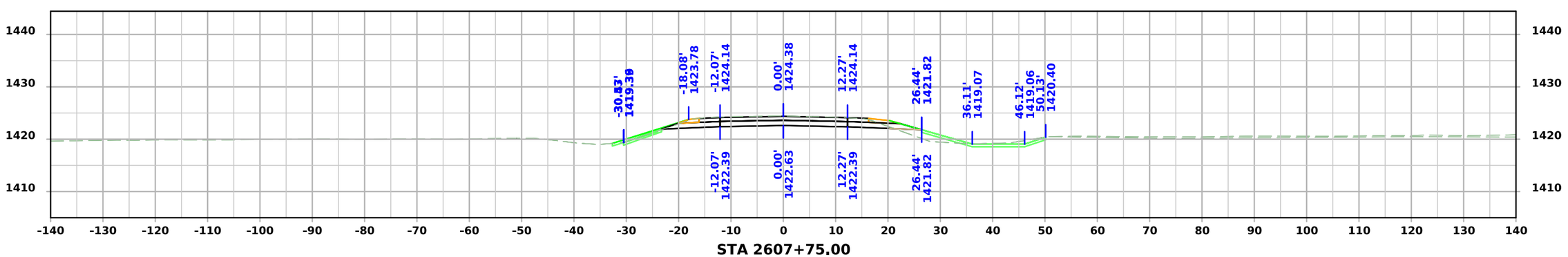
80th Ave



STA 2608+09.44



STA 2608+00.00



STA 2607+75.00

FILE NO.	ENGLISH	DESIGN TEAM **Iowa DOT / HNTB**	**BUENA VISTA** COUNTY	PROJECT NUMBER **RP-007-2(038)--16-11**	SHEET NUMBER **X.24**

1:48:40 PM 6/9/2026 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\1100704025\Design\CADD_Files\Cross_Sections\XS_SR80_11007038Z04.dgn