

DELAWARE COUNTY
 UNKNOWN PAVEMENT - GRADE AND REPLACE
 NHSX-013-2(42)--3H-28
 LETTING DATE
 Oct 17 2023



REVISIONS

PROJECT IDENTIFICATION NUMBER	
18-28-013-010	TOTAL
PROJECT NUMBER	..
NHSX-013-2(42)--3H-28	
R.O.W. PROJECT NUMBER	
NHSN-013-2(43)--2R-28	

STA. 1513+75.00
 END CONSTRUCTION
 Ref. Loc. 53.7

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM DELAWARE COUNTY

UNKNOWN PAVEMENT - GRADE AND REPLACE
 Honey Creek 0.2 mi N of Co Rd D13 to S Jct IA 3

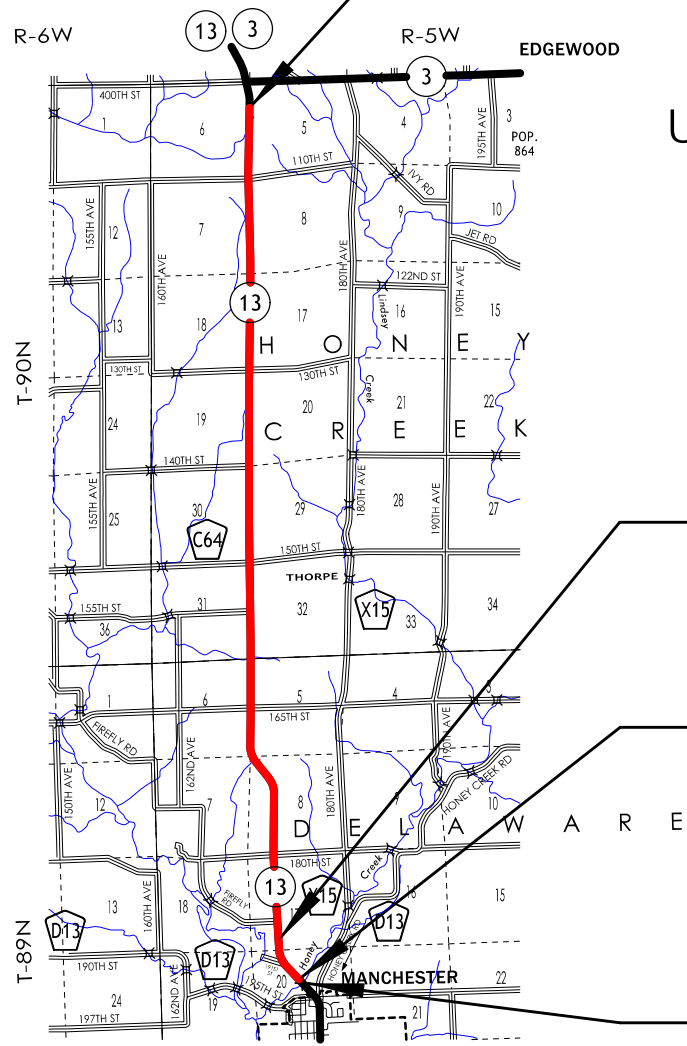
SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



H Sheets----->



STA. 1051+00.00
 END RESURFACING
 BEGIN PAVING

STA. 1025+61.75
 BEGIN CONSTRUCTION
 BEGIN RESURFACING
 Ref. Loc. 44.0

FHWA # 23721

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 5	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
D.1	Plan & Profile Legend & Symbol Information Sheet
D.2 - 18	IA 13
E Sheets	Side Road Plan and Profile Sheets
E.1	Firefly Road
E.2	185th Street
E.3	188th Street
E.4 - 5	195th Street
E.6	198th Street
E.7 - 8	C-61
E.9	148th Street
E.10 - 11	138th Street
E.12 - 13	118th Street
G Sheets	Survey Sheets
G.1	Reference Ties and Bench Marks
G.2 - 6	Control Point Map & Horizontal & Vertical Control
J Sheets	Traffic Control and Staging Sheets
J.1	Detour
W Sheets	Mainline Cross Sections
W.1 - 398	Mainline Cross Sections
X Sheets	Side Road Cross Sections
X.1	Side Road Cross Sections

DESIGN DATA RURAL			
2023	AADT	3000	V.P.D.
2043	AADT	3500	V.P.D.
20	--	DHV	--
			V.P.H.
			TRUCKS
			8 %
			Total
			Design ESALs
			--

INDEX OF SEALS		
	X	
X	X	X

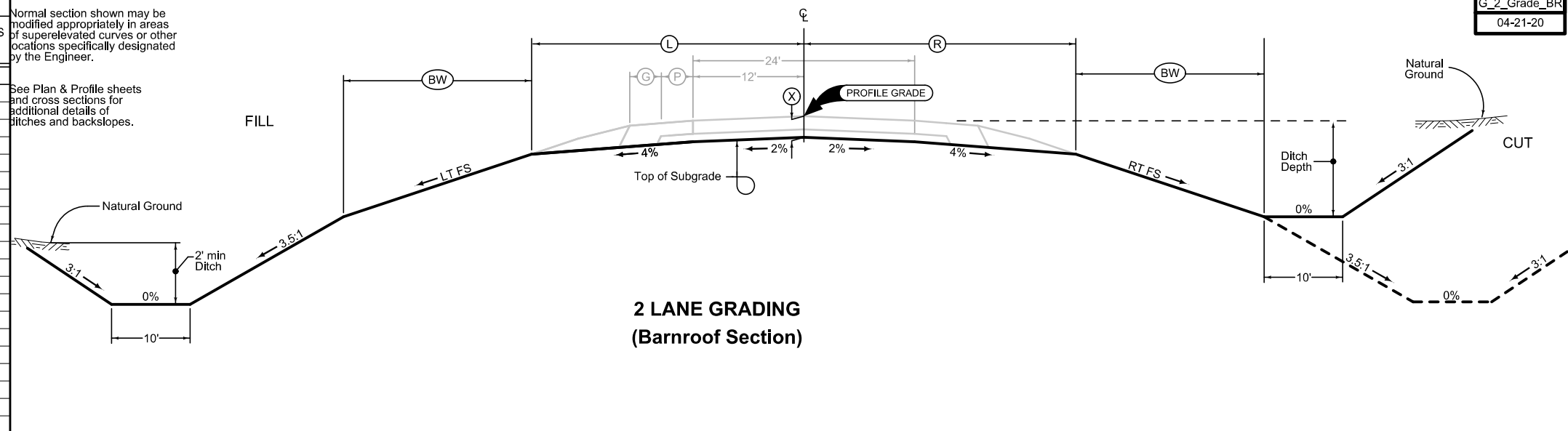
PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 12/3/2021

LOCATION		DIMENSIONS					
ROAD IDENTIFICATION	STATION TO STATION	(L) Feet	(R) Feet	(X) Inches	(BW) Feet	LT FS	RT FS
IA 13	1051+00.00 - 1513+75.00	34.0	34.0	15	17.2	6:1	6:1
	1059+25.00 - 1059+75.00					6:1-4:1	
	1059+75.00 - 1062+40.00					4:1	
	1062+40.00 - 1062+60.00					4:1-6:1	
	1196+50.00 - 1197+00.00					6:1-4:1	
	1197+00.00 - 1197+50.00					4:1	
	1197+50.00 - 1198+00.00					4:1-6:1	
	1324+70.00 - 1324+75.00					6:1-4:1	
	1324+75.00 - 1326+00.00					4:1	
	1375+50.00 - 1376+00.00					6:1-4:1	
	1376+00.00 - 1377+20.00					4:1	
	1427+50.00 - 1430+00.00					4:1	

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.



IOWA 13 GRADING

Full Depth PCC Combination Shoulder

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

2_C_FullPCC_04-21-20				
STATION TO STATION		(P) Feet	(G) Feet	
1051+00.00	1085+50.00	6	4	
1089+00.00	1105+00.00	6	4	
1112+50.00	1216+00.00	6	4	
1218+00.00	1234+25.00	6	4	
1236+75.00	1281+75.00	6	4	
1284+75.00	1310+40.00	6	4	
1313+50.00	1326+00.00	6	4	
1329+25.00	1354+25.00	6	4	
1356+50.00	1377+85.00	6	4	
1378+75.00	1427+75.00	6	4	
1430+80.00	1440+00.00	6	4	
1443+00.00	1446+00.00	6	4	
1448+00.00	1511+25.00	6	4	
1513+50.00	1513+75.00	6	4	

Curbed Shoulder

Shoulder jointing:
 Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: C at 17' spacing
 Single pour: L-2
 Staged: KT-2

1R_Curb_04-21-20				
BEGIN STATION	END STATION	(P) Feet	(G) Feet	Curb Type See PV-102
1085+50.00	1086+50.00	11	13	4" Sloped
1086+50.00	1086+75.00	11	13 - 5	4" Sloped
1086+75.00	1089+00.00	11	5	4" Sloped
1105+00.00	1112+50.00	11	13	4" Sloped
1216+00.00	1218+00.00	11	13	4" Sloped
1233+78.00	1234+28.00	11	13 - 4	4" Sloped
1234+28.00	1236+65.00	11	4	4" Sloped
1281+75.00	1284+75.00	11	13	4" Sloped
1281+75.00	1284+75.00	11	13	4" Sloped
1310+40.00	1313+50.00	11	13	4" Sloped
1326+00.00	1329+25.00	11	13	4" Sloped
1354+25.00	1356+50.00	11	13	4" Sloped
1377+20.00	1379+75.00	11	4	4" Sloped
1427+75.00	1430+80.00	11	13	4" Sloped
1440+00.00	1443+00.00	11	13	4" Sloped
1446+00.00	1448+00.00	11	13	4" Sloped
1511+25.00	1513+50.00	11	13	4" Sloped

Auxiliary Lane

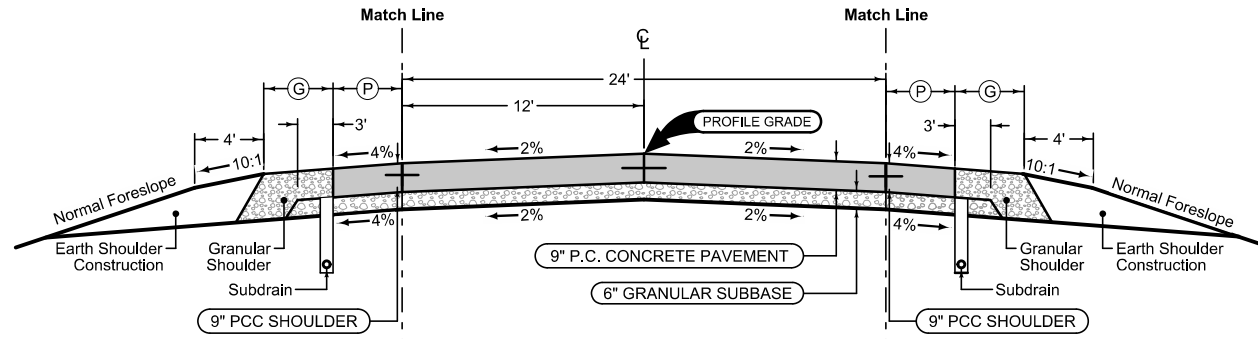
Longitudinal joint: L or KT
 Transverse joint: Match Mainline

2_AuxLane_PCC_10-18-16			
STATION TO STATION		(AL) Feet	
1252+15.5	1260+91.7	0-16	
1260+91.7	1266+61.3	16	
1266+61.3	1275+37.5	16-0	

Full Depth PCC Combination Shoulder

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

2_C_FullPCC_04-21-20			
STATION TO STATION		(P) Feet	(G) Feet
1252+15.5	1275+37.5	6	4



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

2P_04-21-20	
STATION TO STATION	
1051+00	1513+75

Full Depth PCC Combination Shoulder

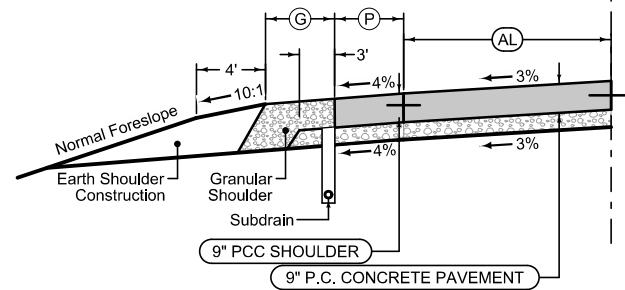
Shoulder Jointing:
 Longitudinal joint: L-2 or KT-2
 Transverse joints: C at 17' spacing

2_C_FullPCC_04-21-20			
STATION TO STATION		(P) Feet	(G) Feet
1051+00.00	1167+50.00	6	4
1171+00.00	1292+50.00	6	4
1297+00.00	1377+00.00	6	4
1380+00.00	1402+62.96	6	4
1404+80.00	1423+00.00	6	4
1429+00.00	1445+50.00	6	4
1448+50.00	1513+75.00	6	4

Curbed Shoulder

Shoulder jointing:
 Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: C at 17' spacing
 Single pour: L-2
 Staged: KT-2

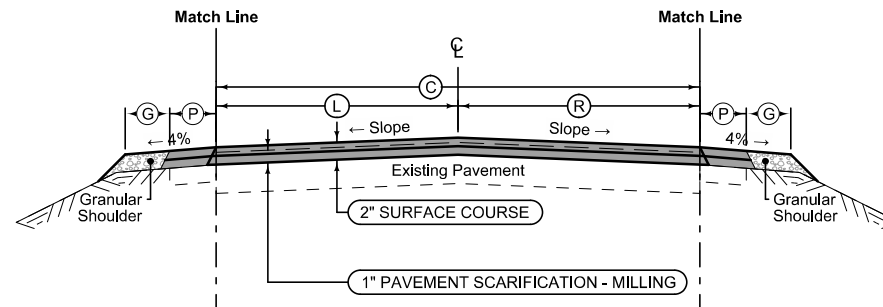


See Tab 100-24 or 100-25 for pavement quantities.
 See Tab 112-9 for shoulder quantities.

IOWA 13 PCC PAVING

Combination Shoulder

3R_Shldr_C_Overlay_04-19-11			
STATION TO STATION		(P) Feet	(G) Feet
1025+61.75	1051+00.00	6	0



Combination Shoulder

3R_Shldr_C_Overlay_04-19-11			
STATION TO STATION		(P) Feet	(G) Feet
1025+61.75	1051+00.00	6	0

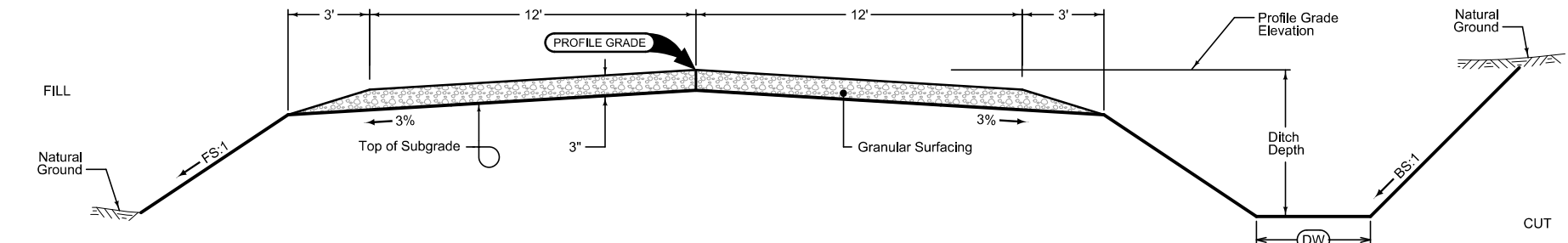
3R_MillingOverlay_04-19-11					
STATION TO STATION		(C) Feet	(L) Feet	(R) Feet	Pavement Scarification SY
1025+61.75	1051+00.00	24	12	12	6,768.67

See Tab 100-24 or 100-25 for pavement quantities.
See Tab 112-9 for shoulder quantities.

IOWA 13 MILLING / RESURFACING

LOCATION		DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION	FS	BS	(DW) Feet	
180th Street	6099+45.37 6100+45.37	x	x	x	x

G_2_GradeGran
10-17-17

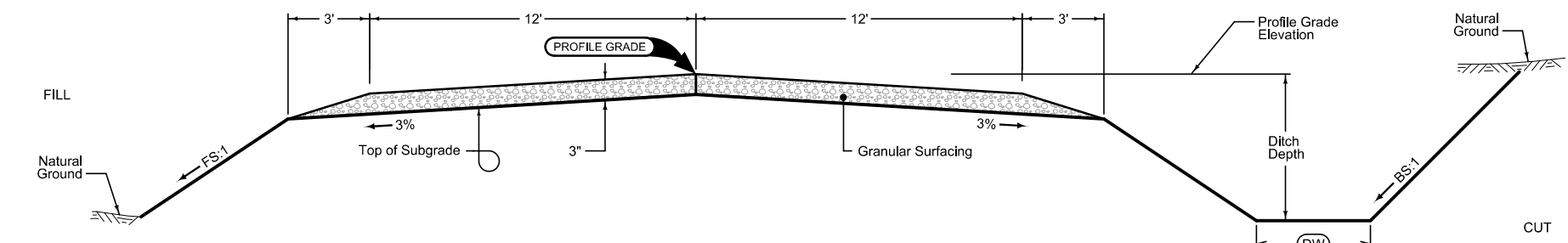


GRADING AND GRANULAR SURFACING
20' Width

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.

LOCATION		DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION	FS	BS	(DW) Feet	
155th Street	8235+95.95 8236+39.98	x	x	x	x
140th Street	10315+99.32 10316+14.87	x	x	x	x
130th Street	11367+70.00 11369+07.95	x	x	x	x
130th Street	11370+43.43 11371+70.00	x	x	x	x
110th Street	12474+15.00 12474+26.13	x	x	x	x
110th Street	12475+60.95 12475+90.01	x	x	x	x

G_2_GradeGran
10-17-17

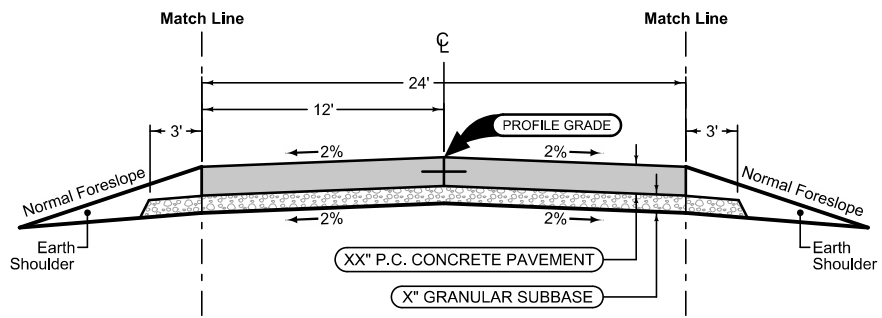


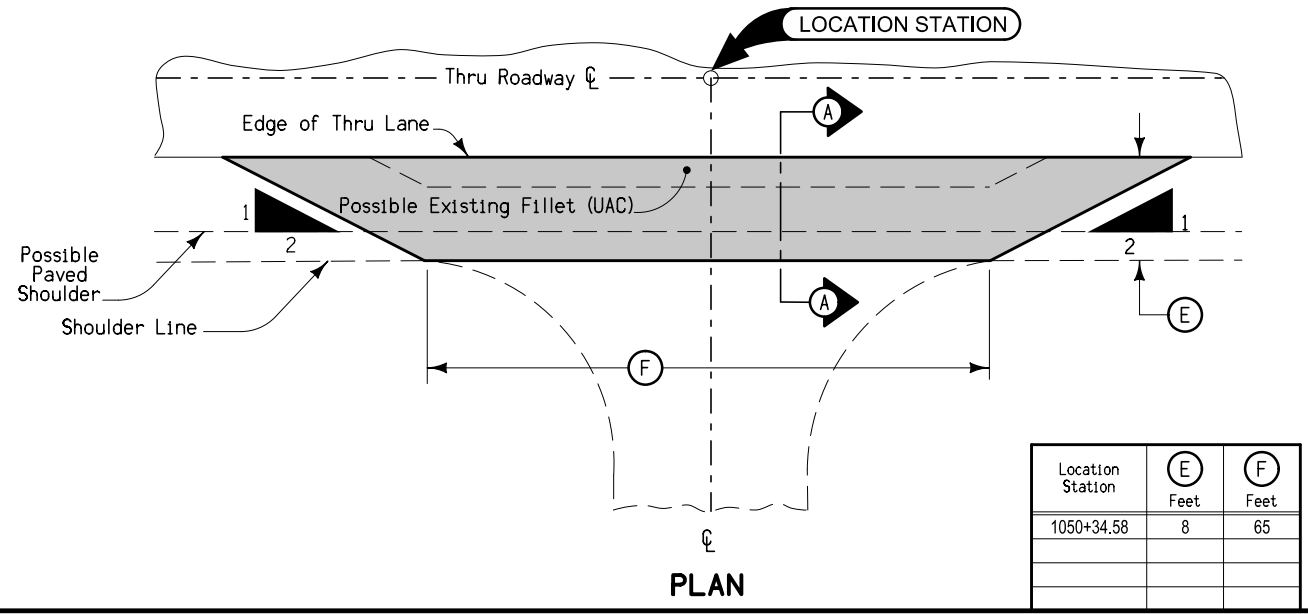
GRADING AND GRANULAR SURFACING
24' Width

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.

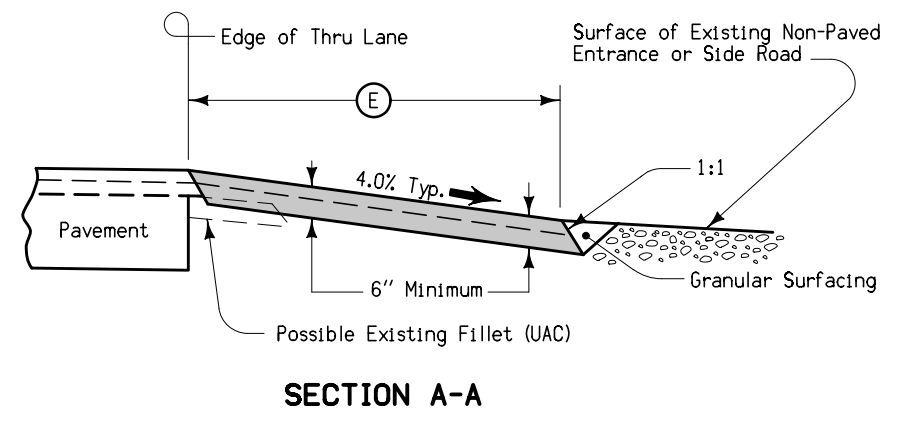
LOCATION		DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION	FS	BS	(DW) Feet	
Firefly Road	4061+74.90 4062+46.73	x	x	x	x
185th Street	5069+47.76 5070+08.48	x	x	x	x
180th Street	6098+56.32 6099+11.32	x	x	x	x
165th Street	7182+41.00 7183+71.35	x	x	x	x
165th Street	7183+96.99 7184+55.27	x	x	x	x
155th Street	8236+39.98 8236+92.98	x	x	x	x
150th Street / C64	9261+80.00 9263+64.69	x	x	x	x
150th Street / C64	9263+88.29 9265+21.84	x	x	x	x
140th Street	10316+14.87 10316+67.87	x	x	x	x
130th Street	11369+07.95 11369+61.95	x	x	x	x
130th Street	11369+88.43 11370+43.43	x	x	x	x
110th Street	12474+26.13 12474+95.13	x	x	x	x
110th Street	12475+07.95 12475+60.95	x	x	x	x

SR_PAVE
NEW



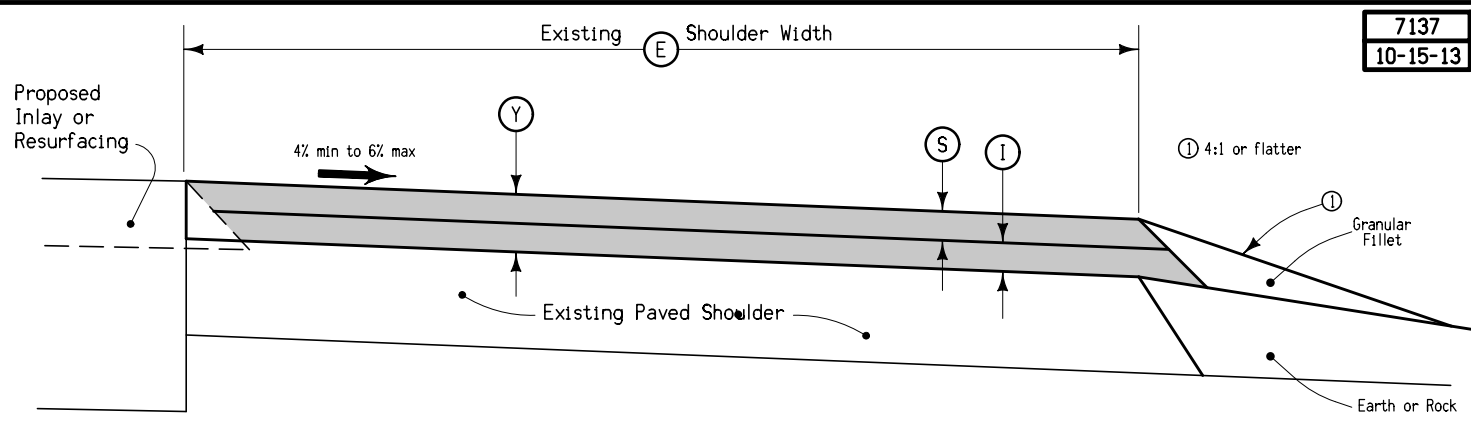


Location Station	(E) Feet	(F) Feet
1050+34.58	8	65



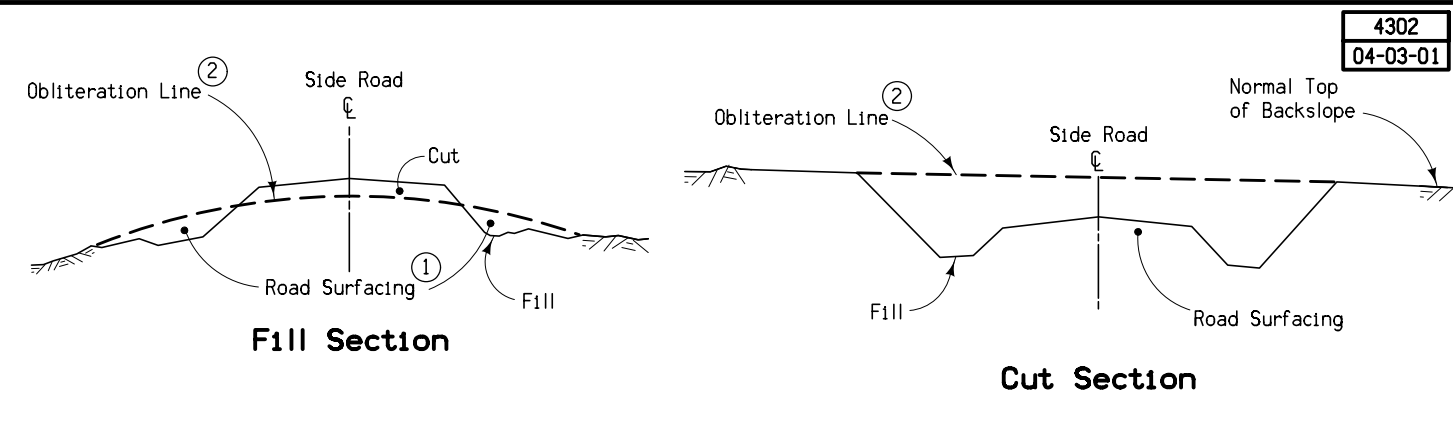
Special shaping of existing surface prior to placement of fillet may be required by the Engineer and is incidental to other work on the project.
Quantities included with mainline quantities.

FILLET FOR NON-PAVED ENTRANCES OR SIDE ROADS



STATION TO STATION	DIRECTION OF TRAVEL	SIDE	(Y)	(E)	(S)	(I)
			Inches	Feet	Inches	Inches

HMA SHOULDER RESURFACING



- ① Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.
 - ② When specified, the upper 1' to be suitable for vegetation (grass or crops).
- Note:
The work of obliterating or reshaping old roadbeds shall be done at the direction of the Engineer.

TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

SURVEY SYMBOLS

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

UTILITY LEGEND

- EL1D Iowa DOT - Quality D**
Jason Dale
800 Lincoln Way
Ames IA, 50010
(515) 239-1995
Jason.Dale@iowadot.us
- EL2D Alliant Energy - Quality D**
Mary Montgomery
PO Box 351
Cedar Rapids IA, 52406-9874
(319) 786-4768
MaryMontgomery@alliantenergy.com
- FO2D Iowa Communications Network - Quality D**
Mike Broderick
400 E 14th St, Grimes State Office Building
Des Moines IA, 50319
(515) 725-4610
Mike.Broderick@iowa.gov
- GL1D Black Hills - Quality D**
Brad Fleming
1102 E. First St.
Papillion NE, 68046-7641
(402) 221-2714
brad.fleming@blackhillscorp.com
- TL1D Windstream Communications - Quality D**
Steve Kness
1450 N. Center Pt. Rd.
Hiawatha IA, 52233
(319) 790-7678
stephen.kness@windstream.com
- WL1D Central Iowa Water Association - Quality D**
Matt Mahler
1351 Iowa Speedway Drive
Newton IA, 50208
(800) 400-6066
mmahler@irua.net

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
Gray, Light	(48)		Proposed Pavement Shading
Gray, Med	(80)		Proposed Granular Shading
Gray, Dark	(112)		Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)		Grading Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		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

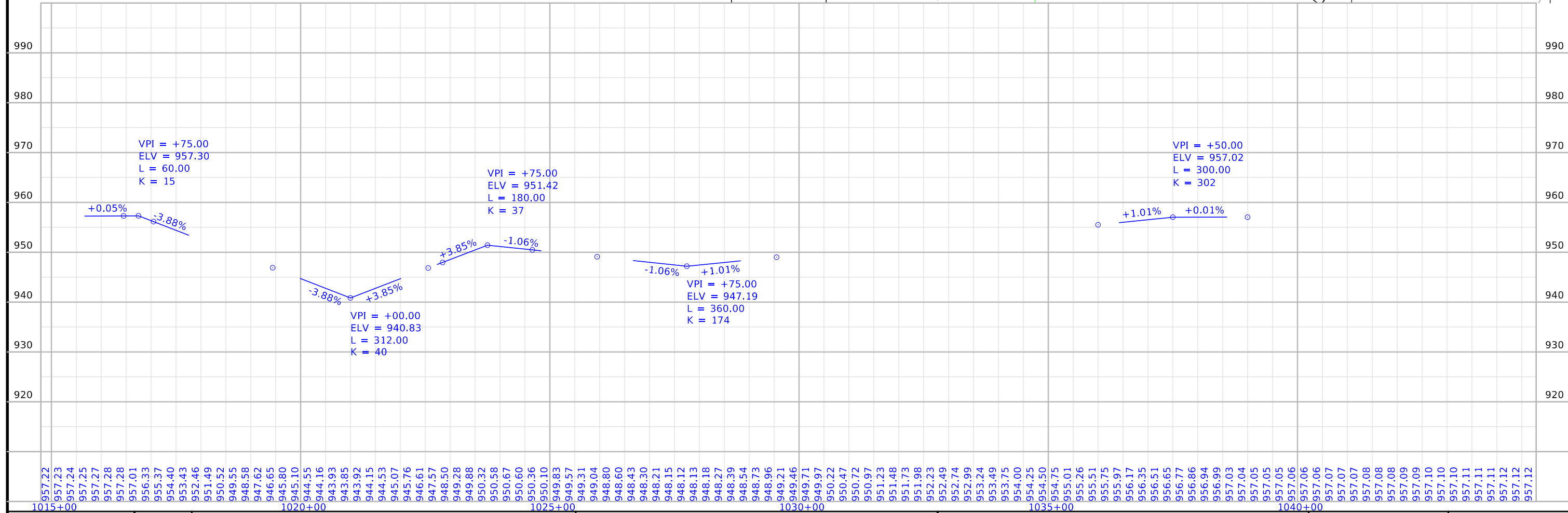
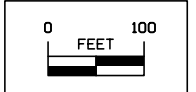
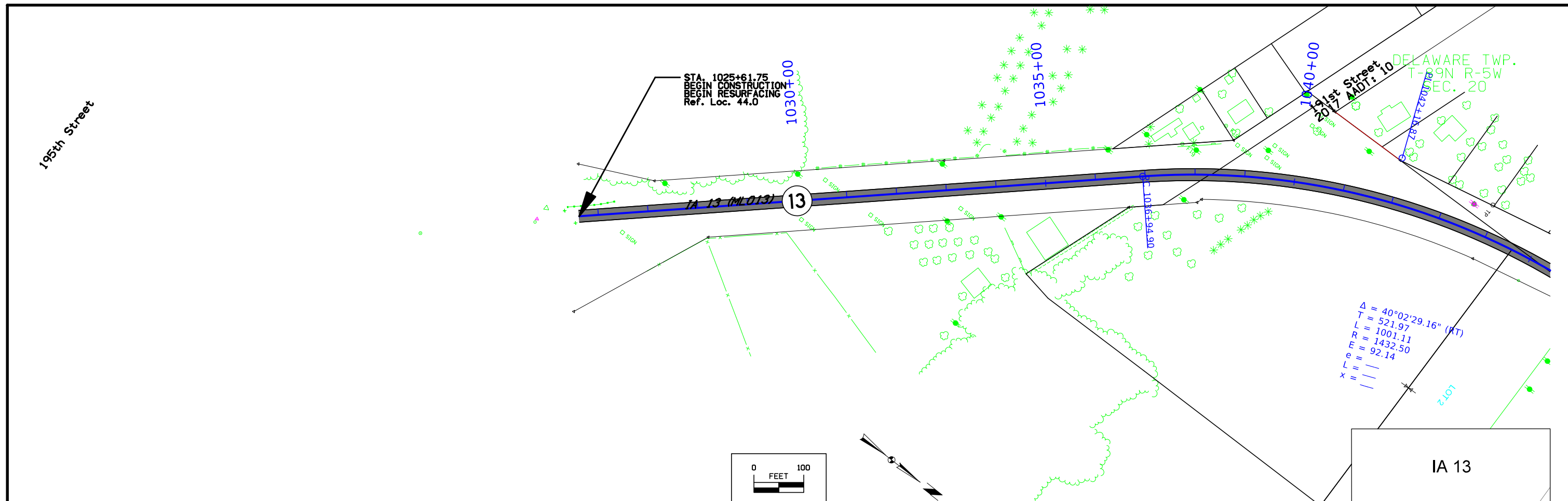
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

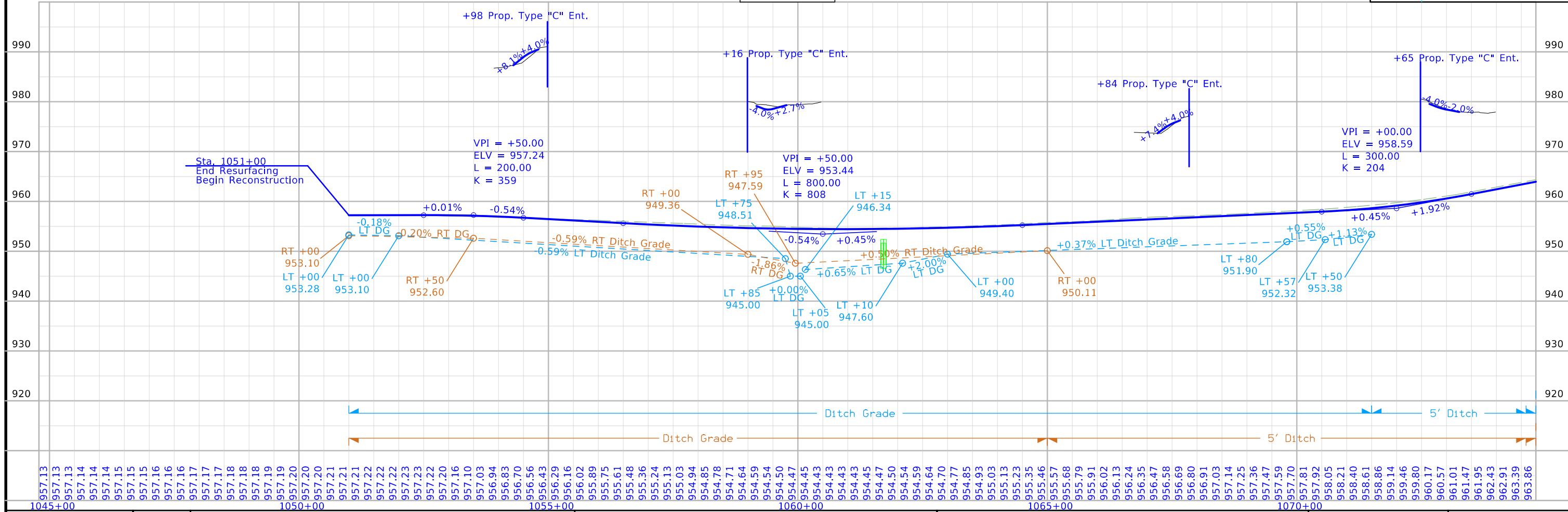
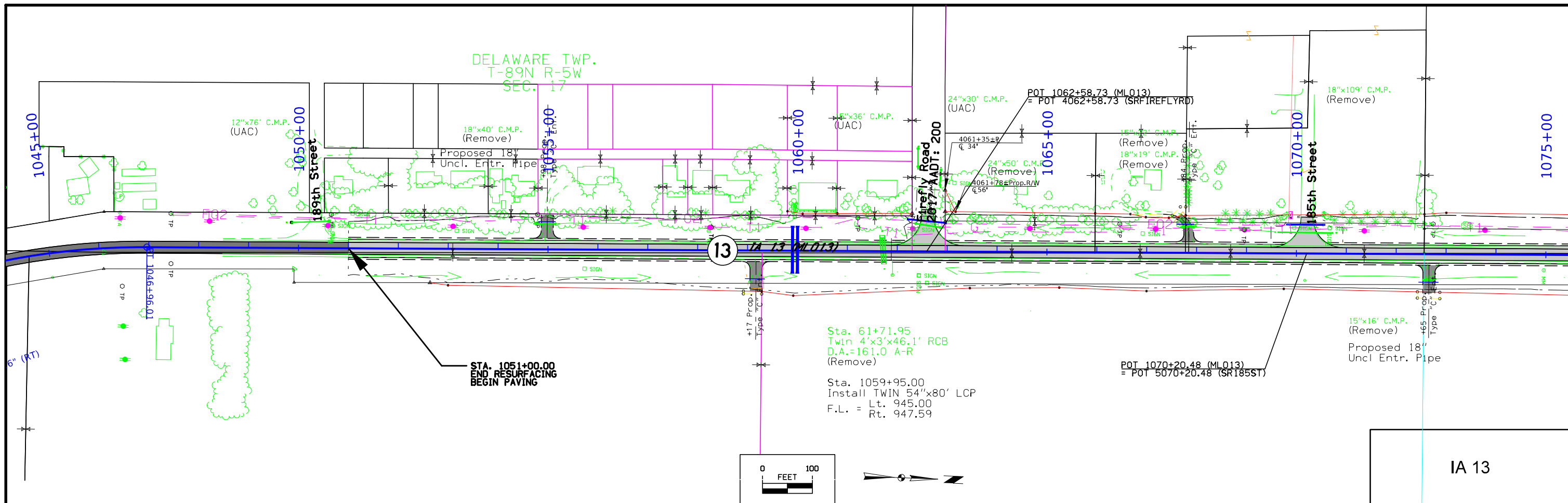
- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

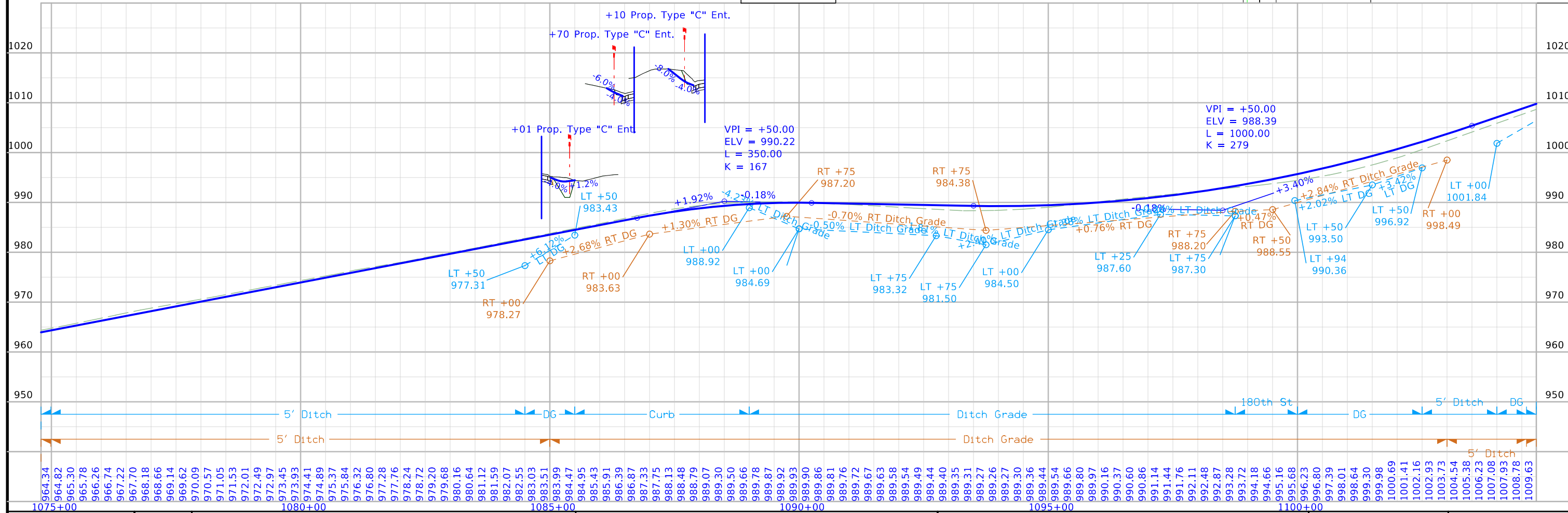
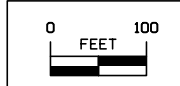
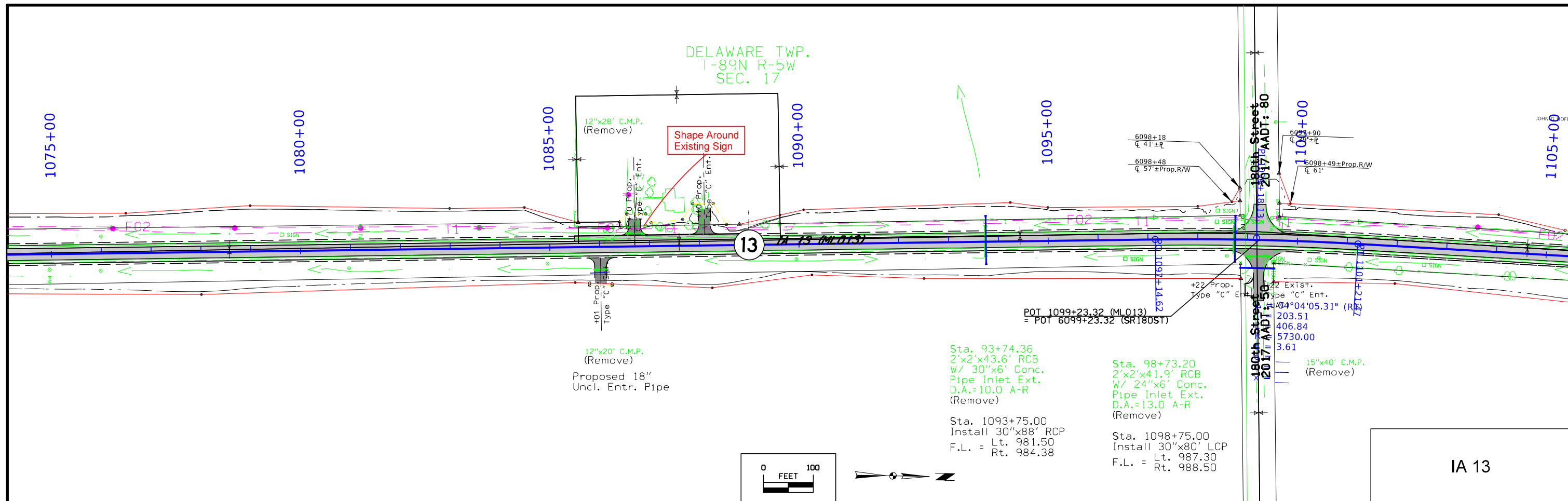
(COVERS SHEET SERIES D, E, F, & K)



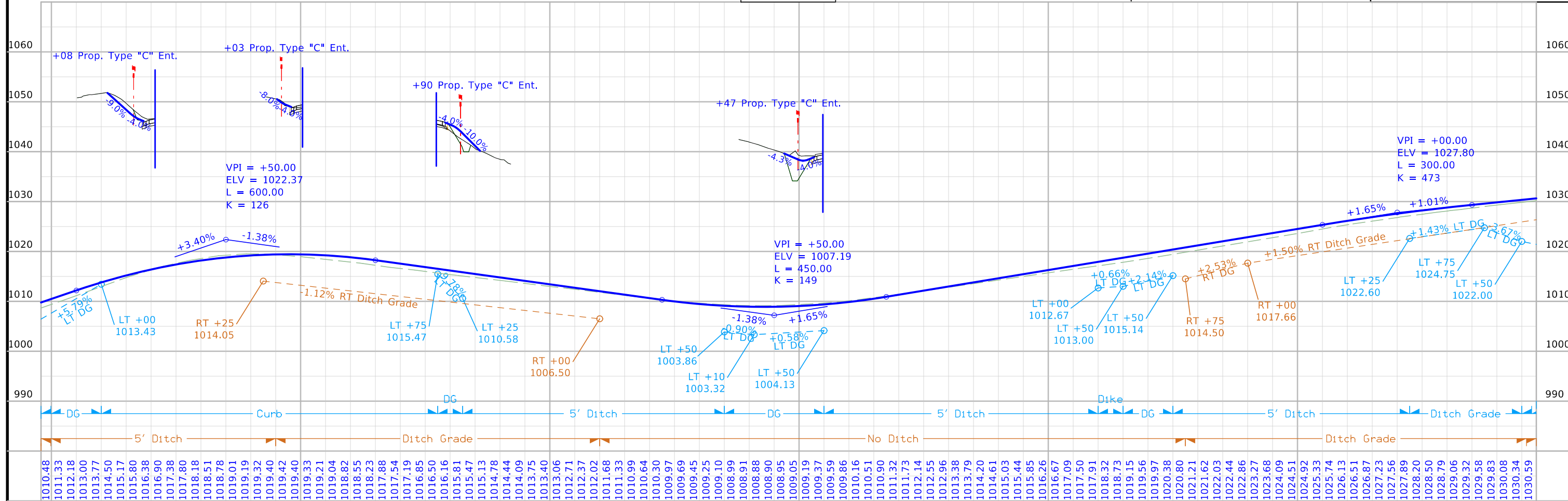
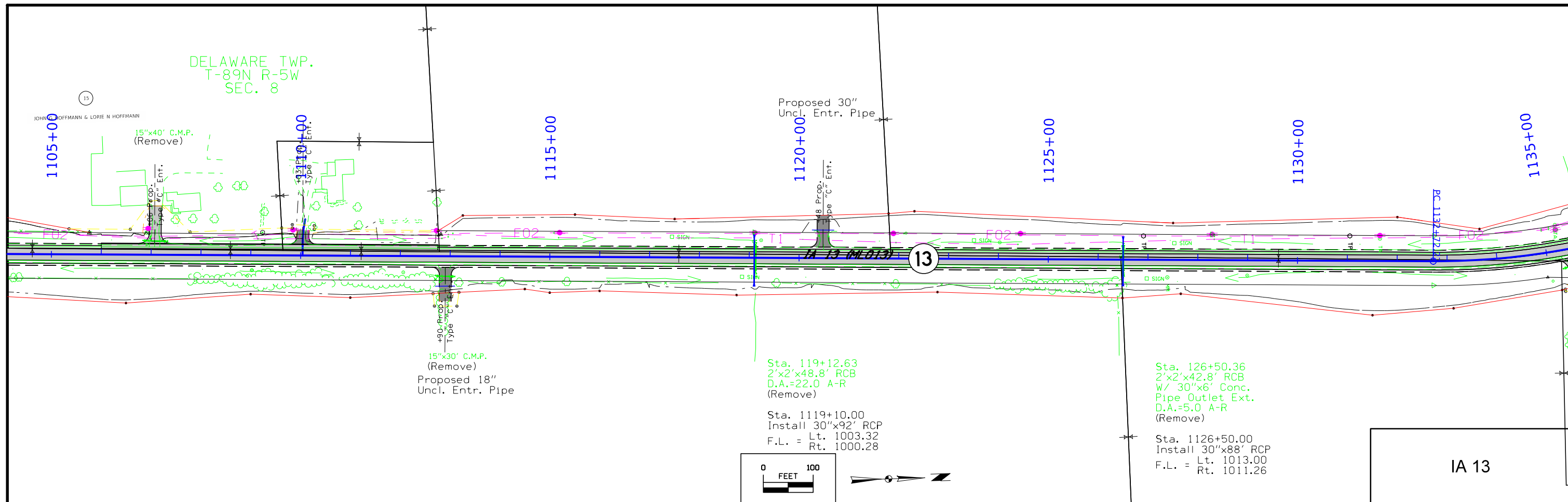
1015+00	1020+00	1025+00	1030+00	1035+00	1040+00
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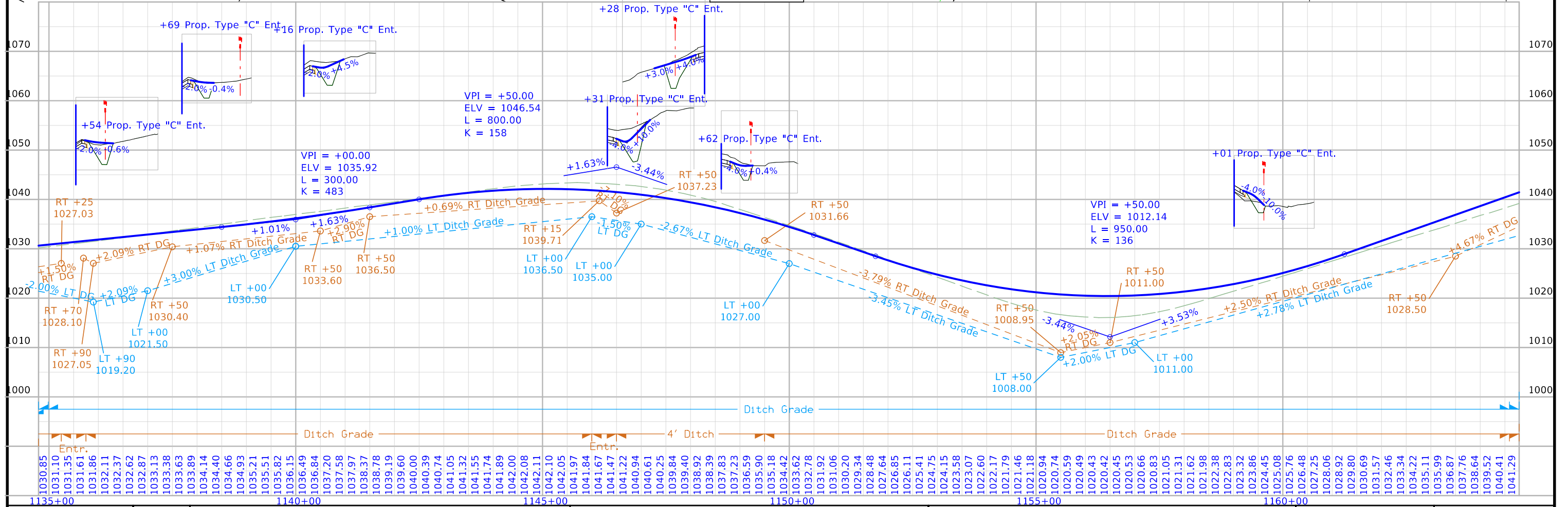
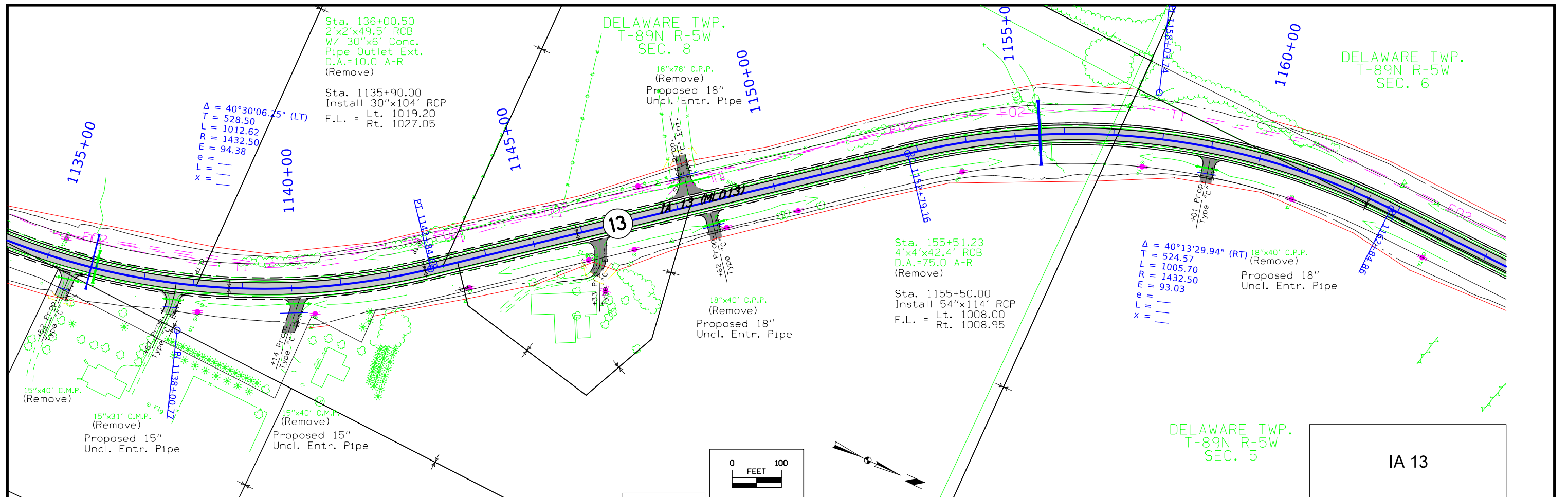
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1045+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.3

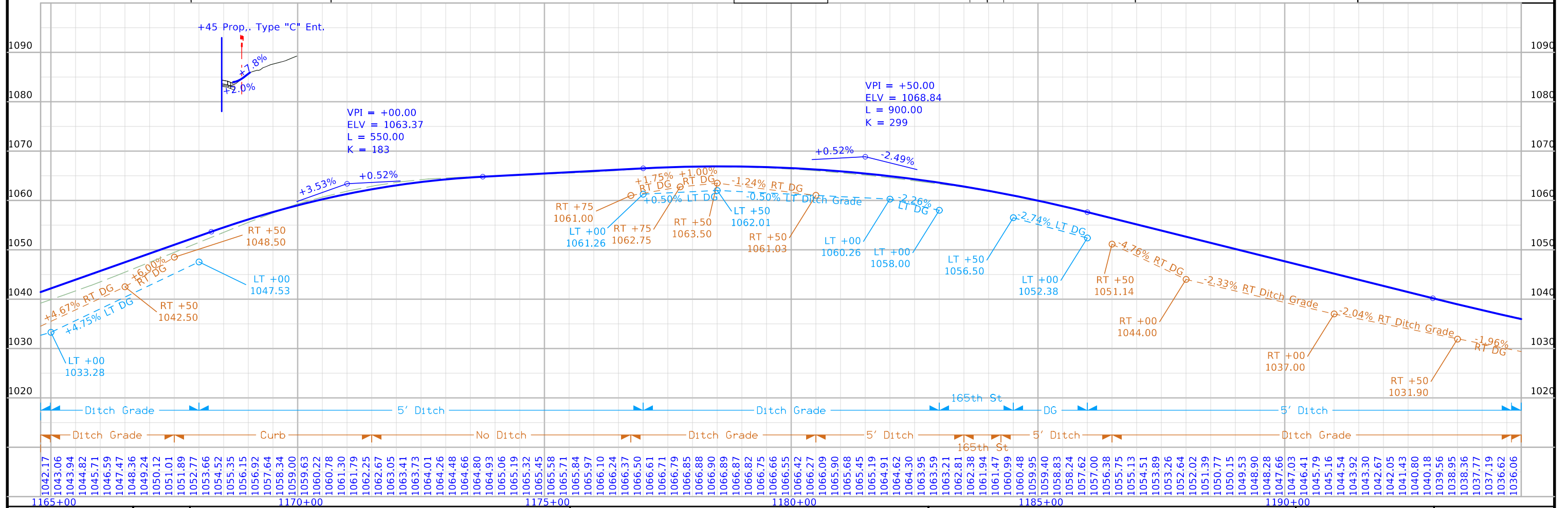
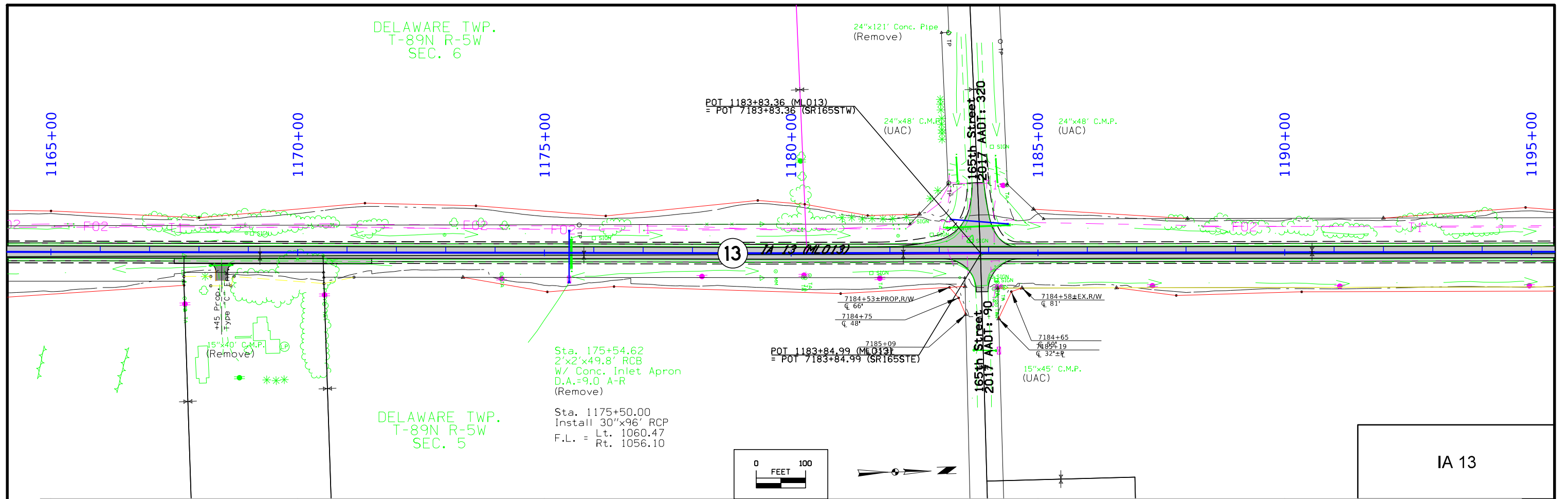


FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1075+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.4



1105+00	1110+00	1115+00	1120+00	1125+00	1130+00
1010.48	1011.33	1012.18	1013.00	1013.77	1014.50
1015.17	1015.80	1016.38	1016.90	1017.38	1017.80
1018.18	1018.51	1018.78	1019.01	1019.19	1019.32
1019.40	1019.42	1019.33	1019.21	1019.04	1018.82
1018.55	1018.23	1017.88	1017.54	1017.19	1016.85
1016.50	1016.16	1015.81	1015.47	1015.13	1014.78
1014.44	1014.09	1013.75	1013.40	1013.06	1012.71
1012.37	1012.02	1011.68	1011.33	1010.99	1010.64
1010.30	1009.97	1009.69	1009.45	1009.25	1009.10
1008.91	1008.88	1008.90	1008.95	1009.05	1009.19
1009.37	1009.59	1009.86	1010.16	1010.51	1010.90
1011.32	1011.73	1012.14	1012.55	1013.38	1013.79
1014.20	1014.61	1015.03	1015.44	1015.85	1016.26
1016.67	1017.09	1017.50	1017.91	1018.32	1018.73
1019.15	1019.56	1019.97	1020.38	1020.80	1021.21
1021.62	1022.03	1022.44	1022.86	1023.27	1023.68
1024.09	1024.51	1024.92	1025.33	1025.74	1026.13
1026.51	1026.87	1027.23	1027.56	1027.89	1028.20
1028.50	1028.79	1029.06	1029.32	1029.58	1029.83
1030.08	1030.34	1030.59			





FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.7

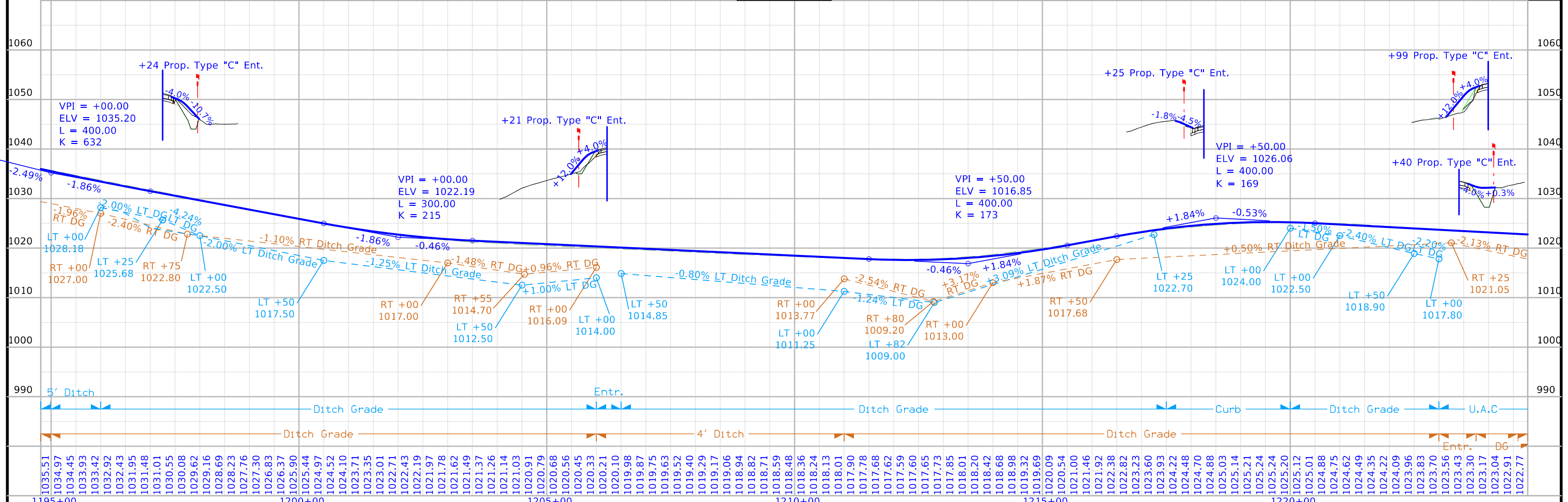
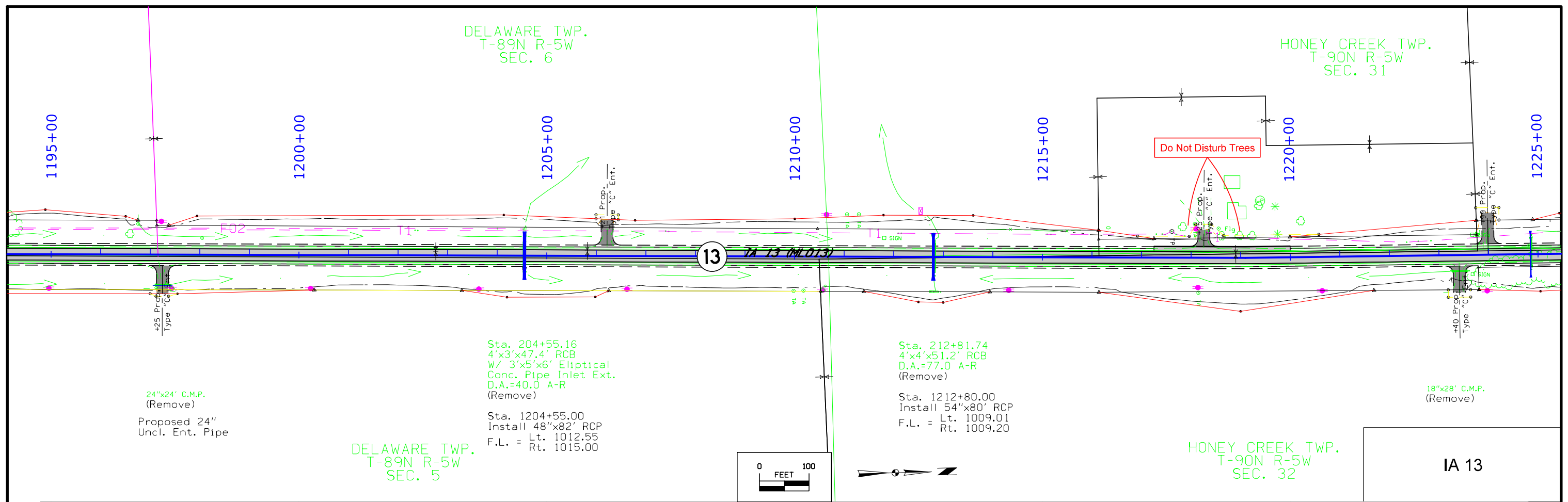
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T-89N R-5W
SEC. 6

HONEY CREEK TWP.
T-90N R-5W
SEC. 31

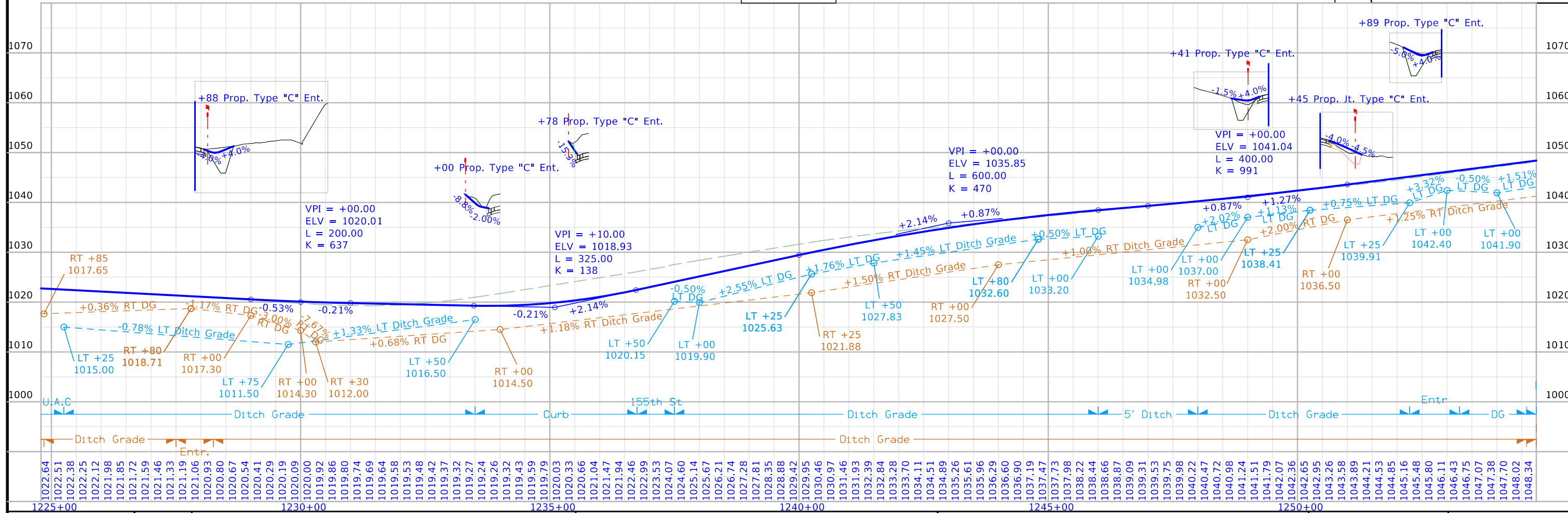
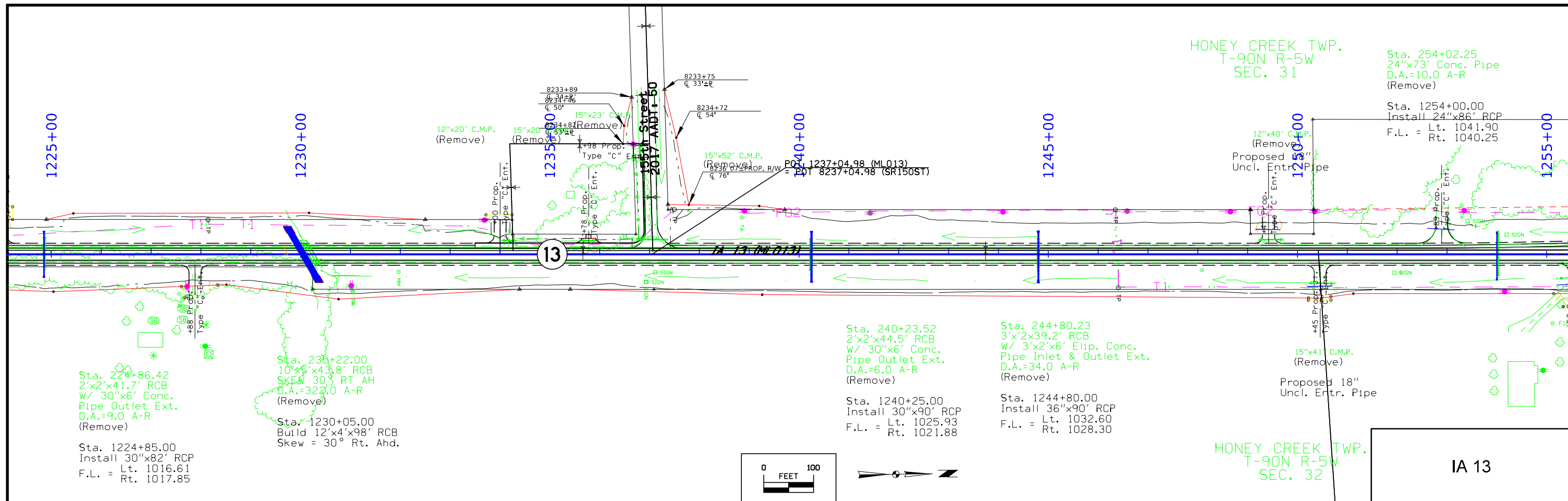
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T-89N R-5W
SEC. 5

HONEY CREEK TWP.
T-90N R-5W
SEC. 32

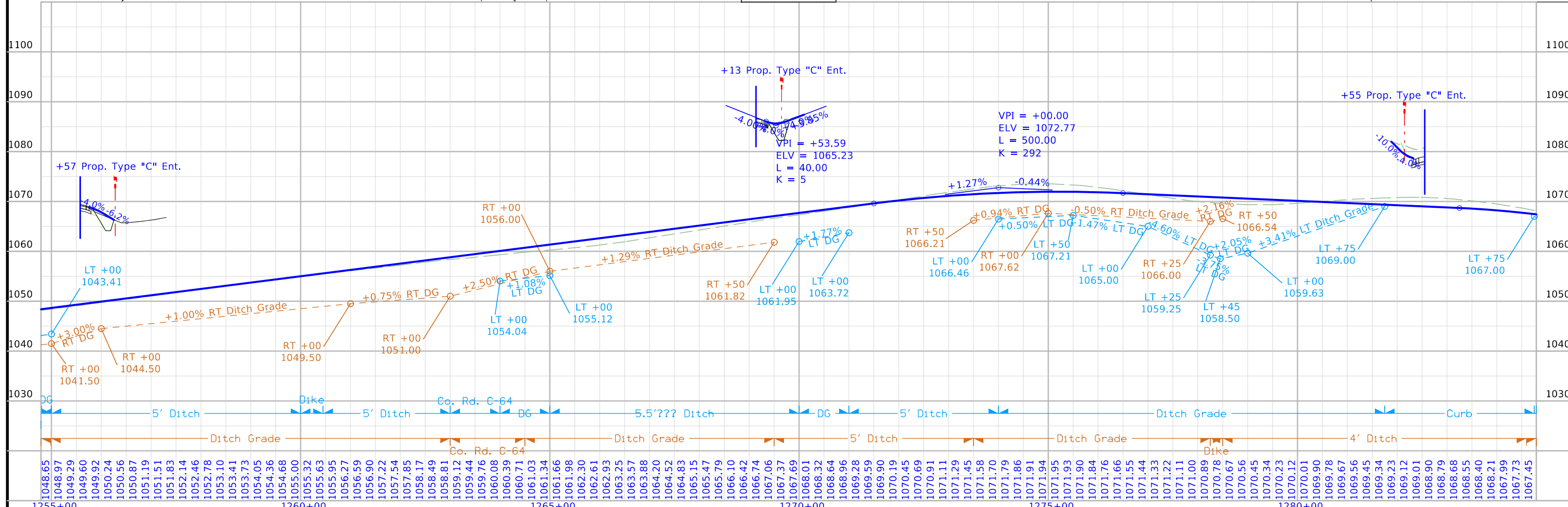
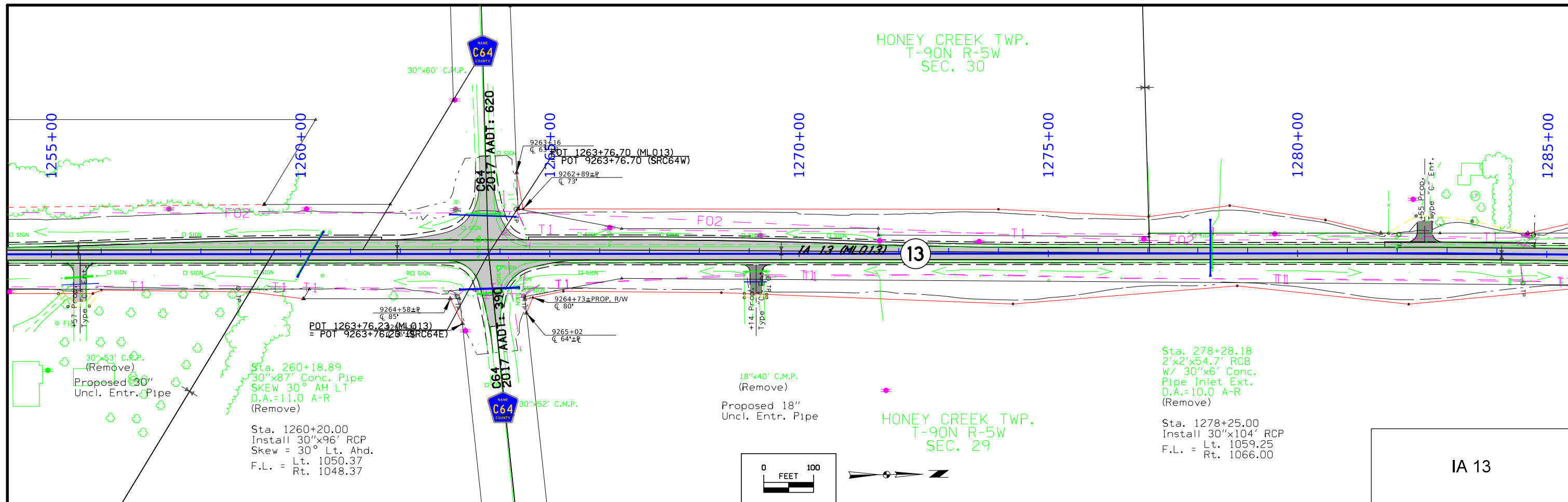
IA 13



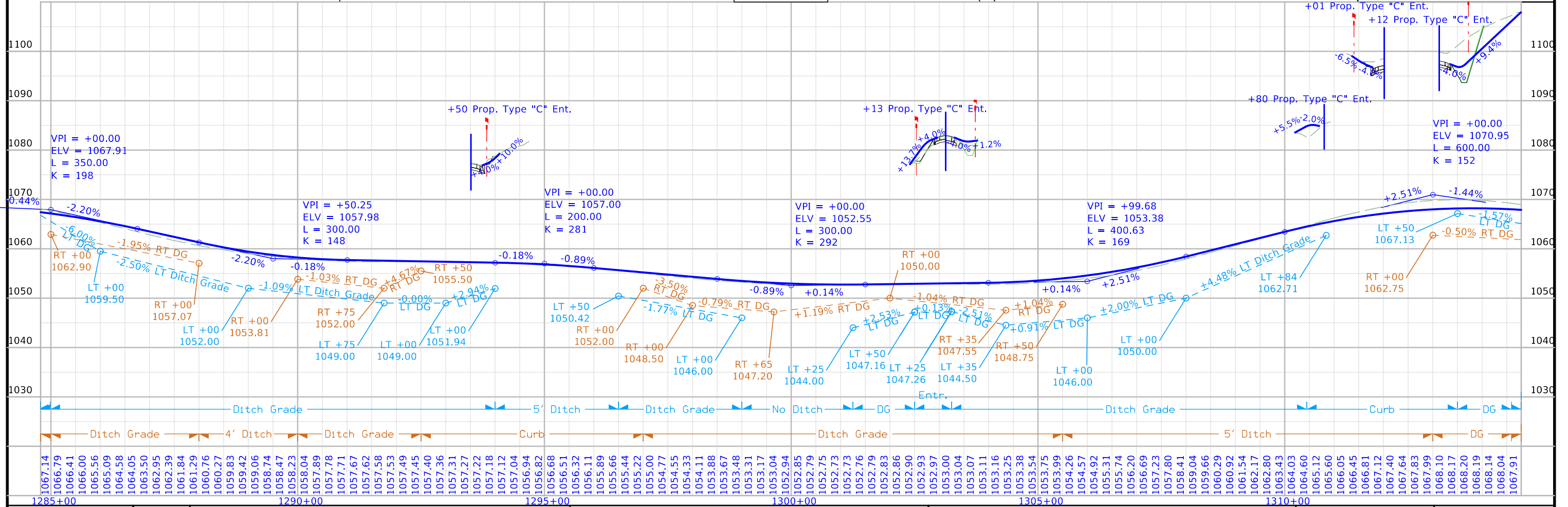
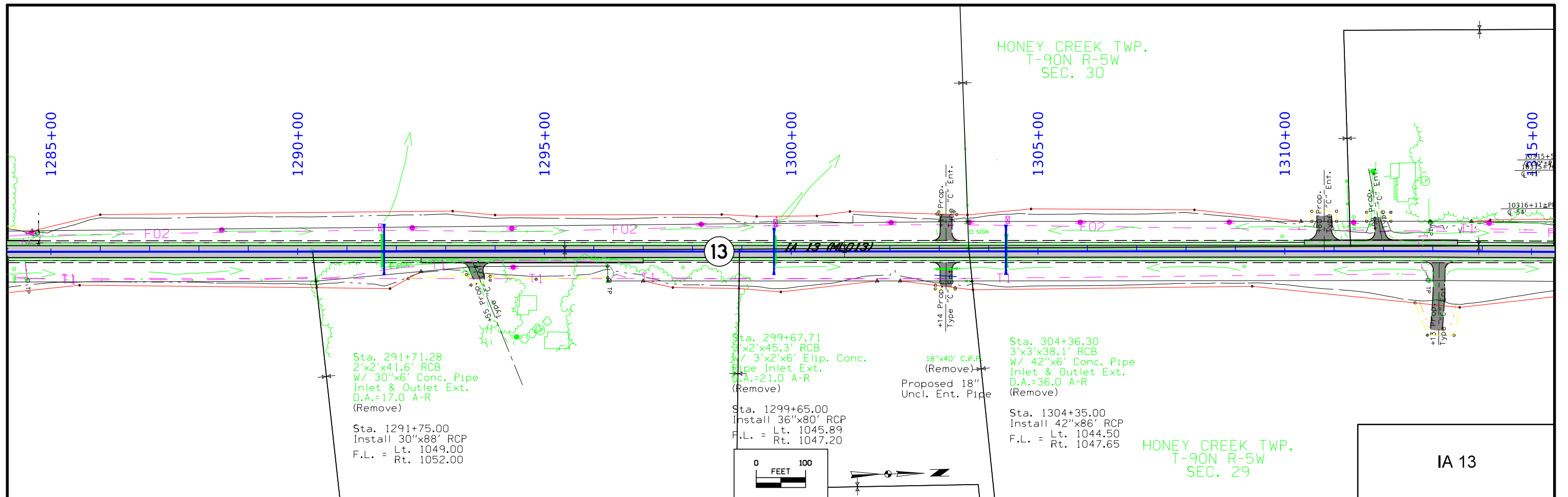
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1195+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.8

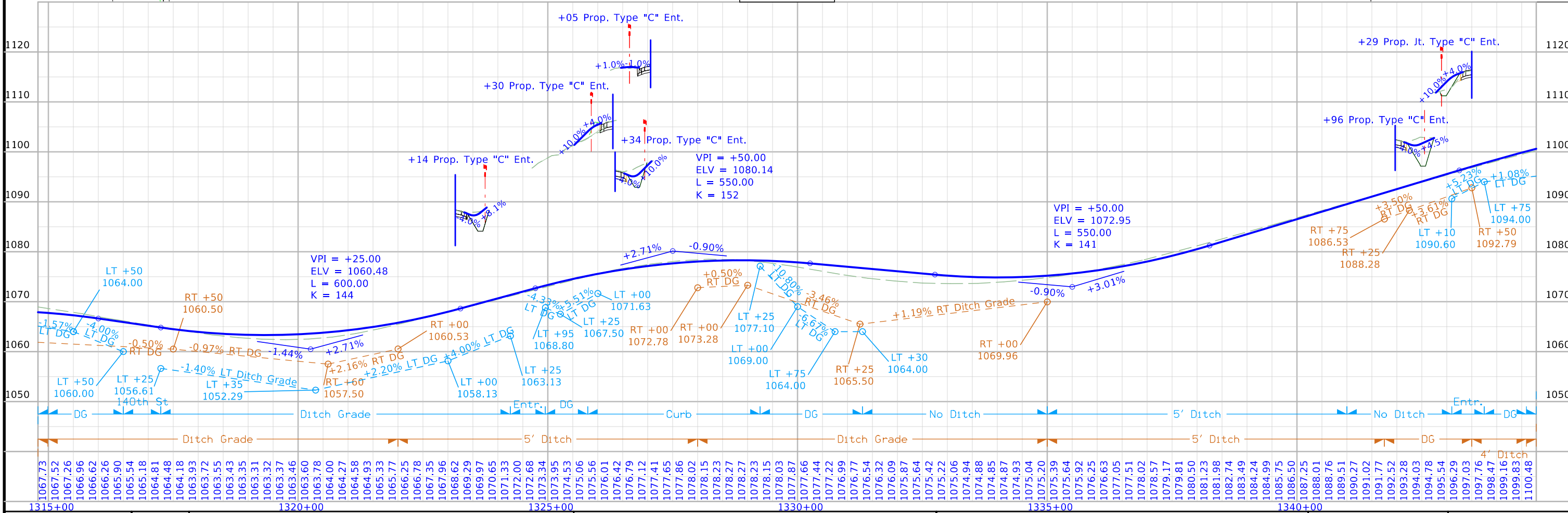
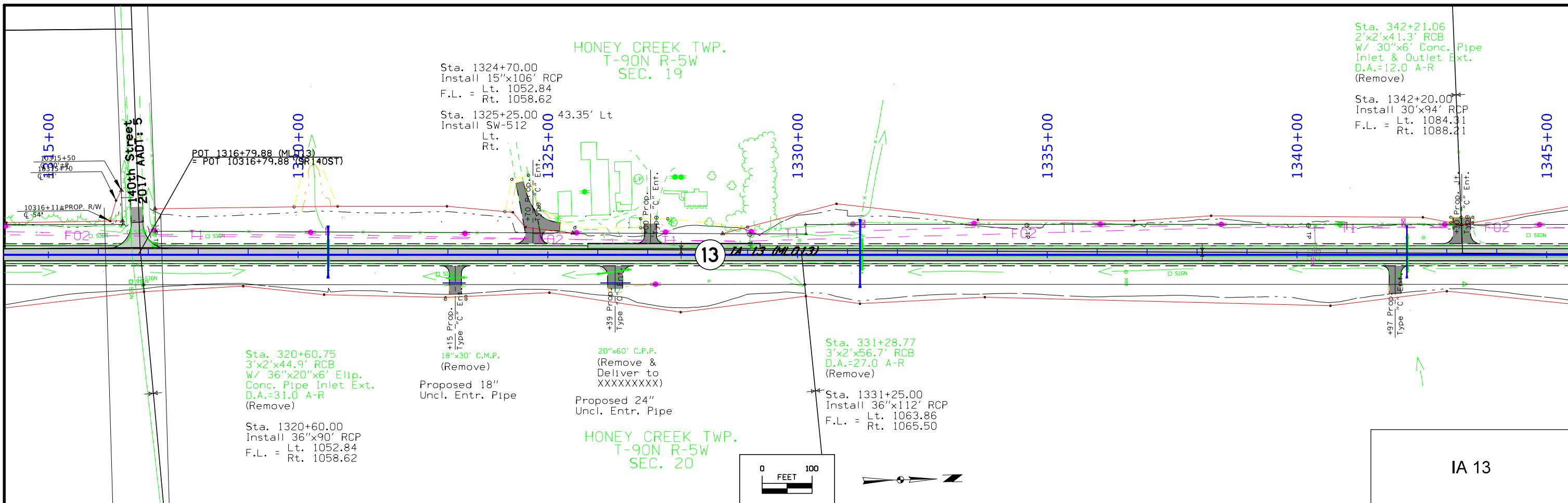


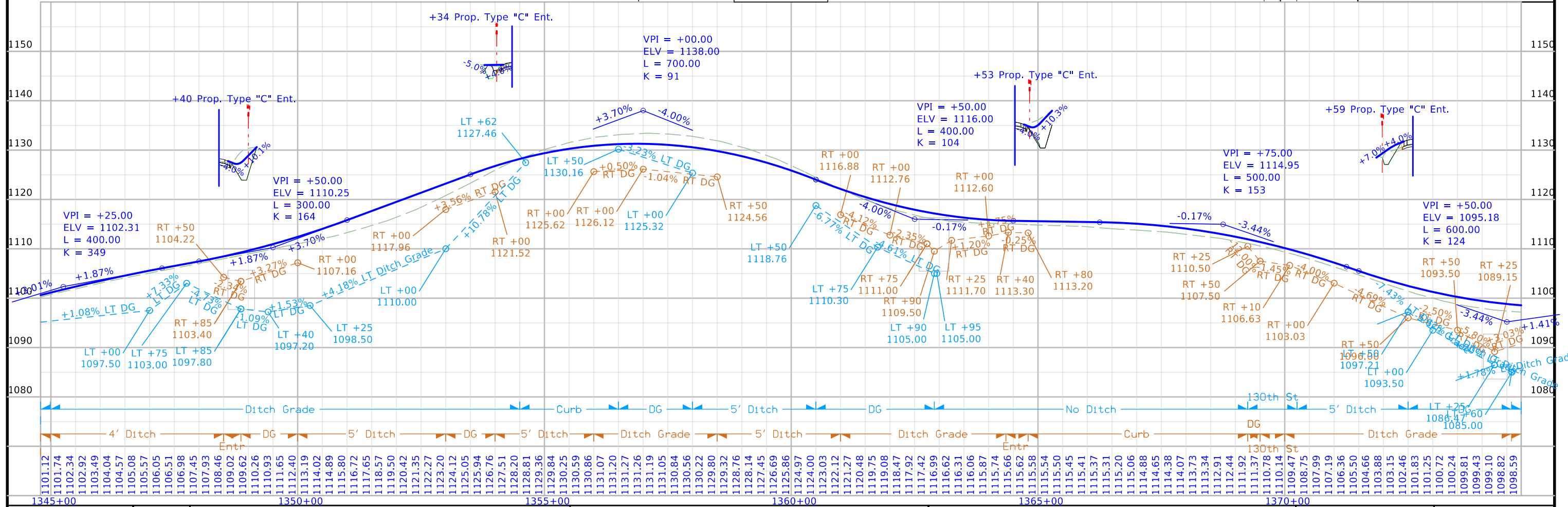
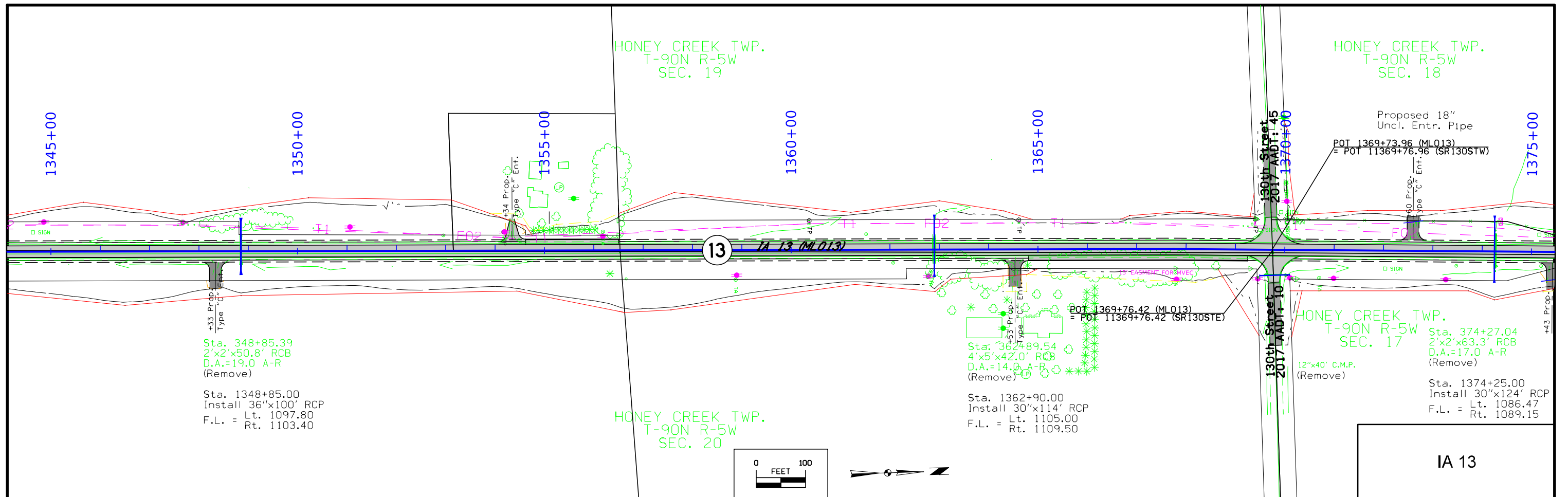
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		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.9



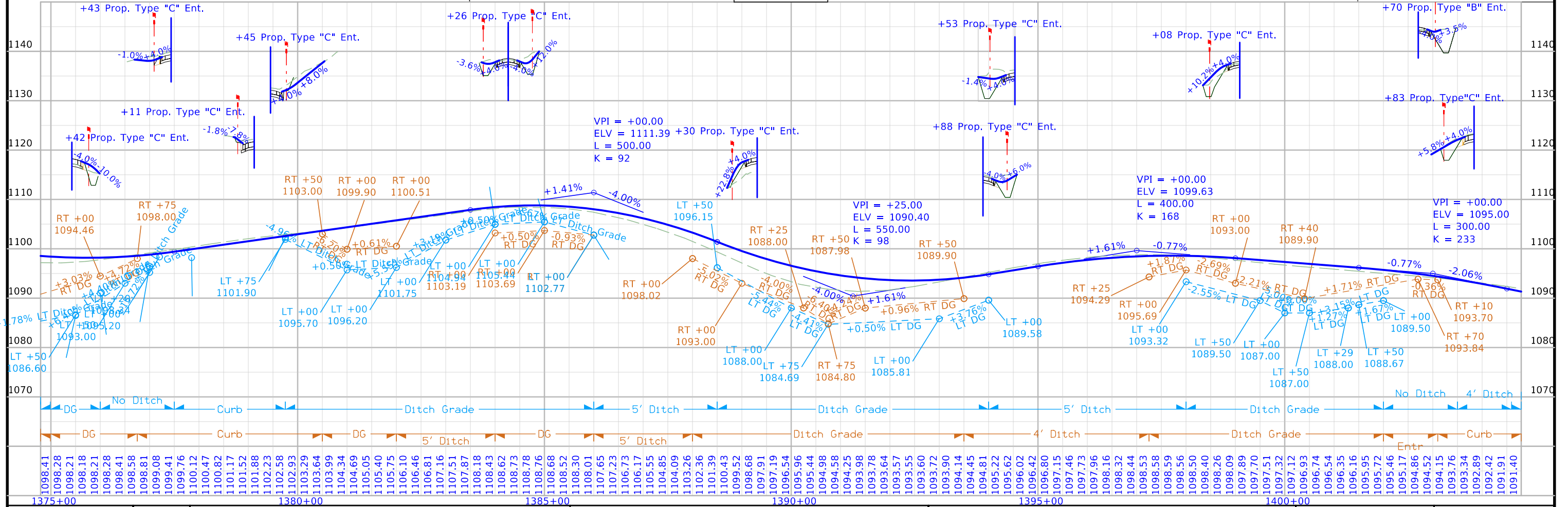
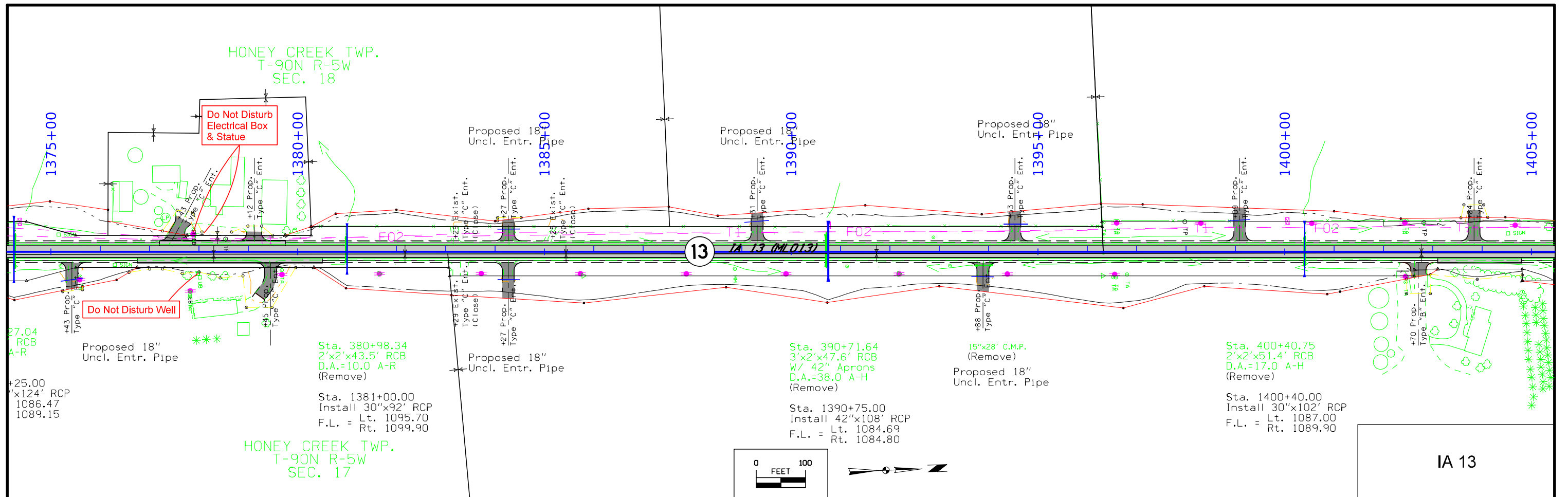
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FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
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FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.14

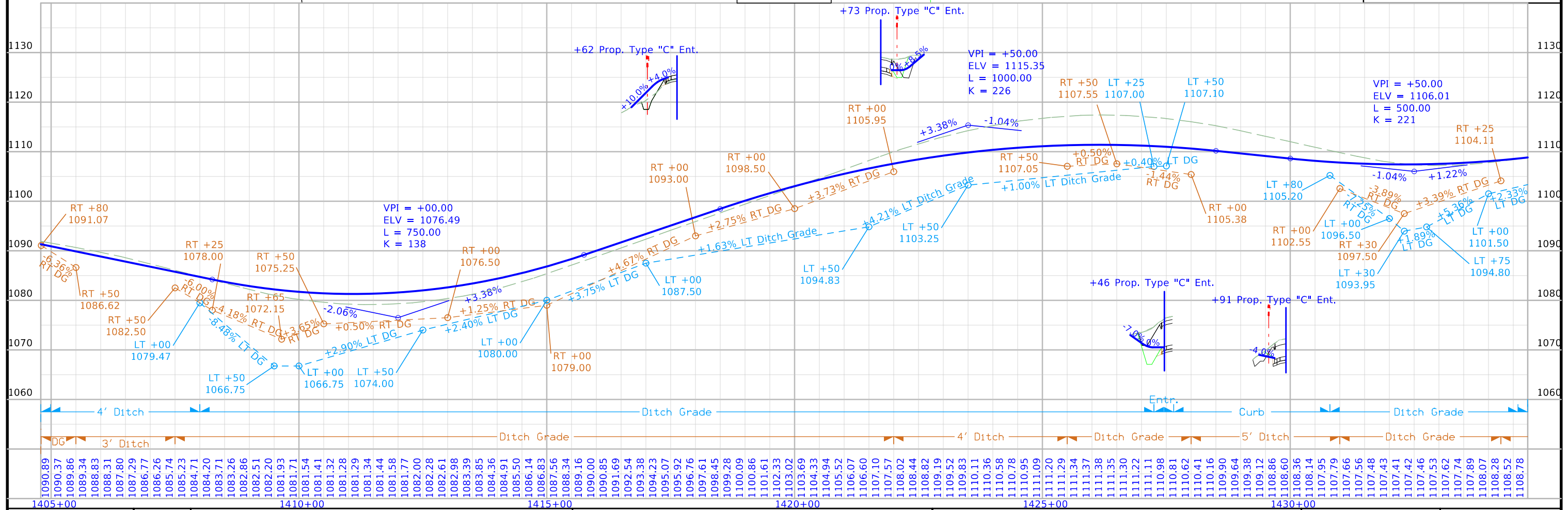
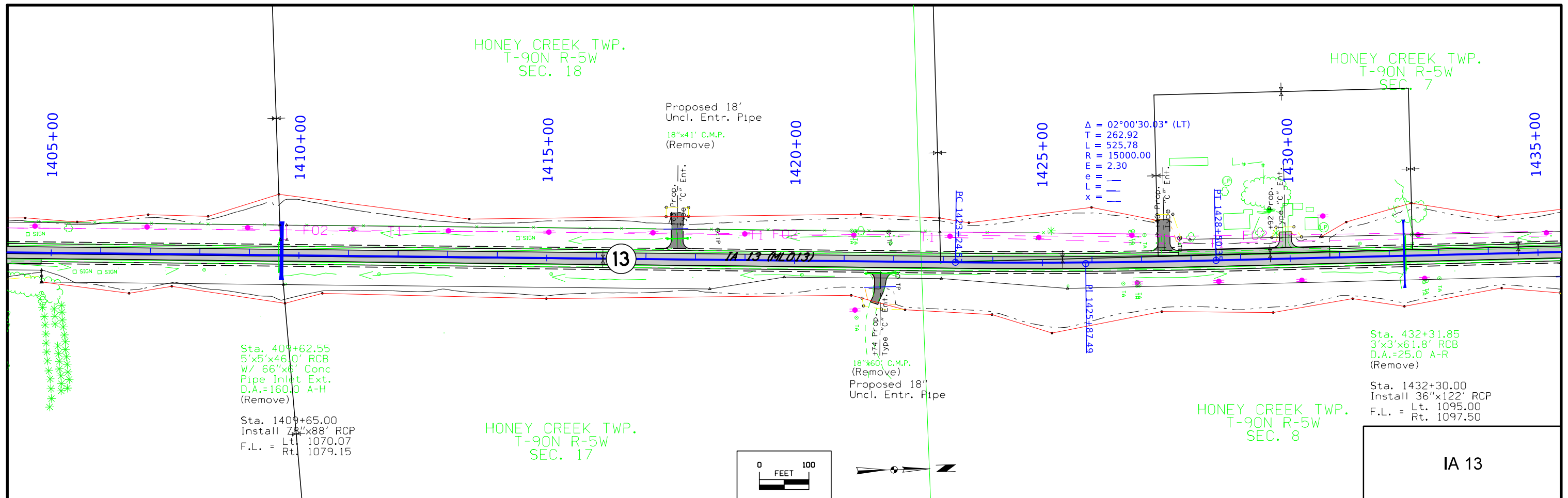
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T-90N R-5W
SEC. 18

HONEY CREEK TWP.
T-90N R-5W
SEC. 7

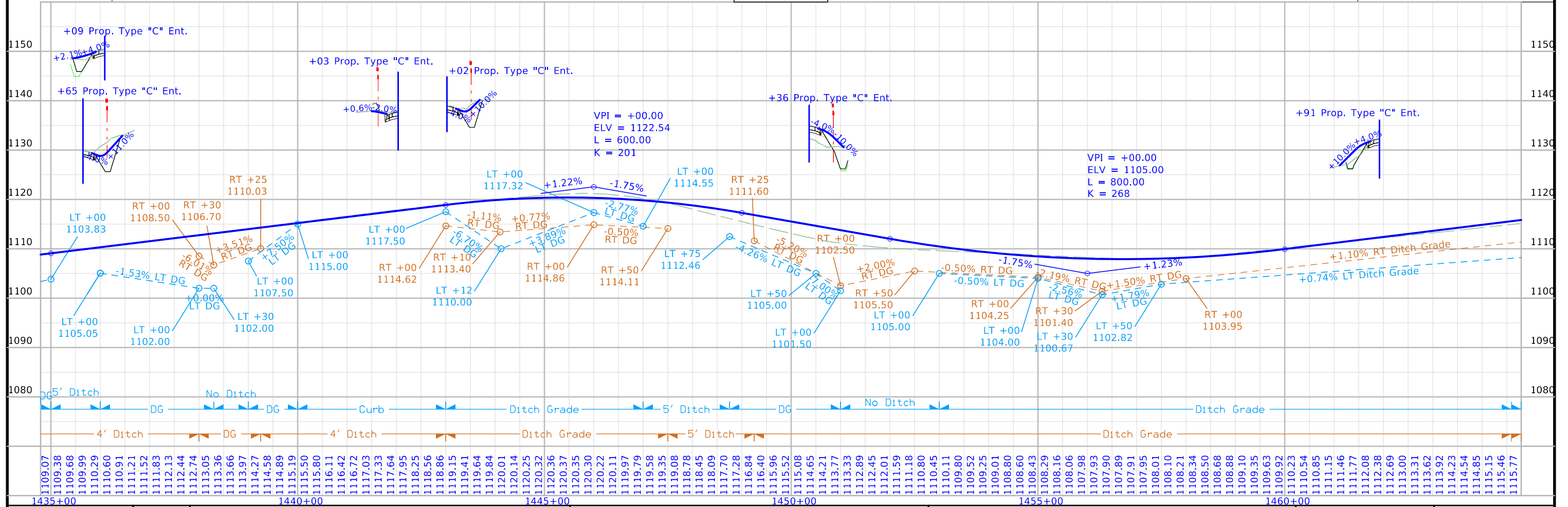
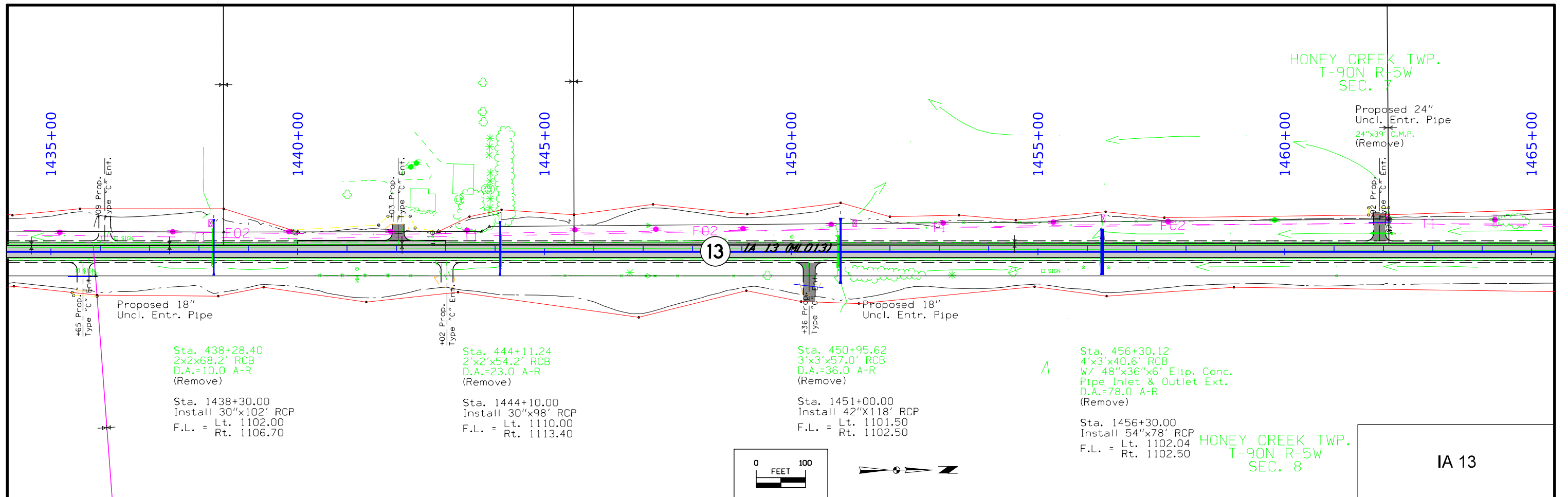
HONEY CREEK TWP.
T-90N R-5W
SEC. 17

HONEY CREEK TWP.
T-90N R-5W
SEC. 8

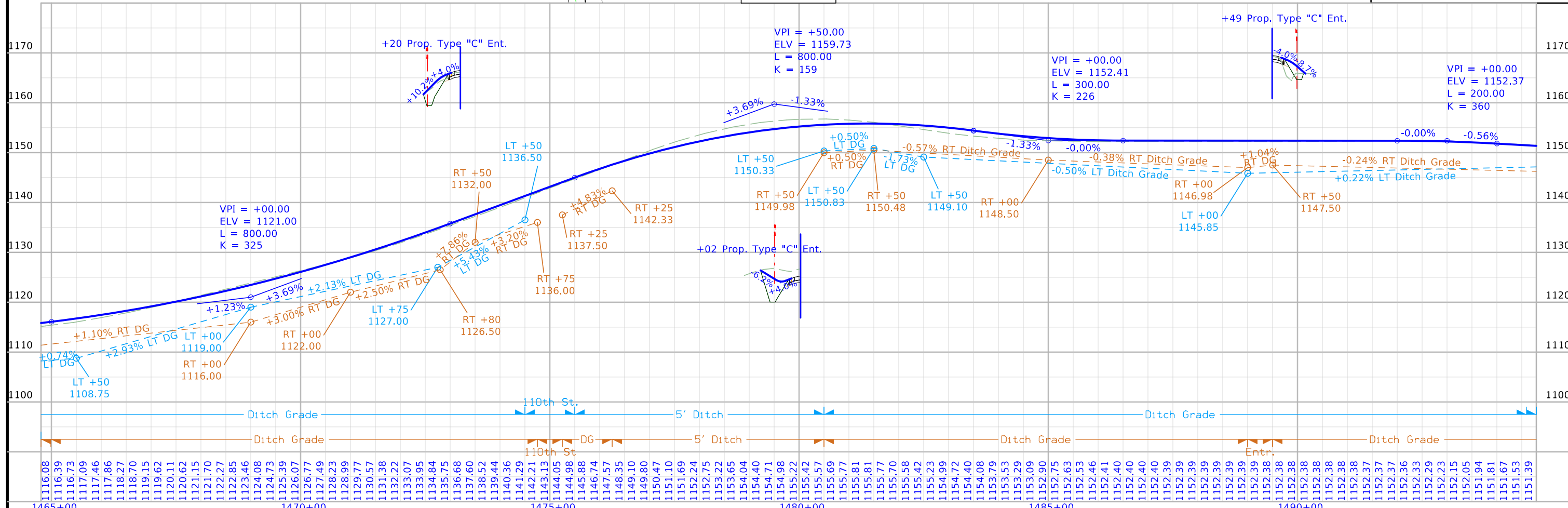
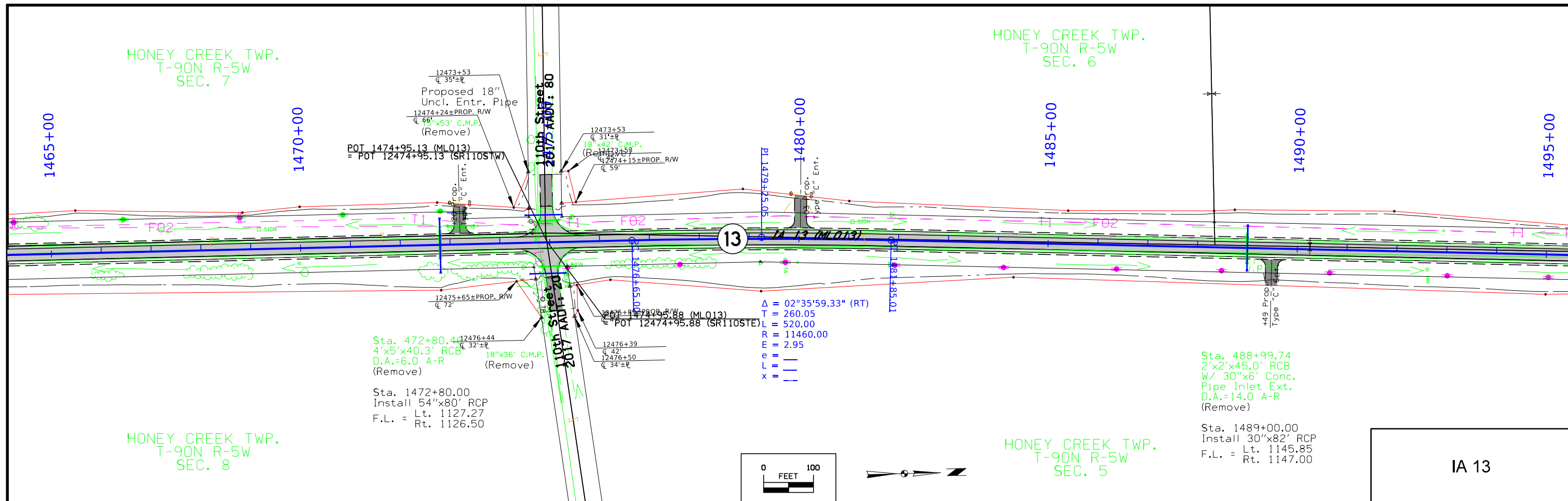
IA 13

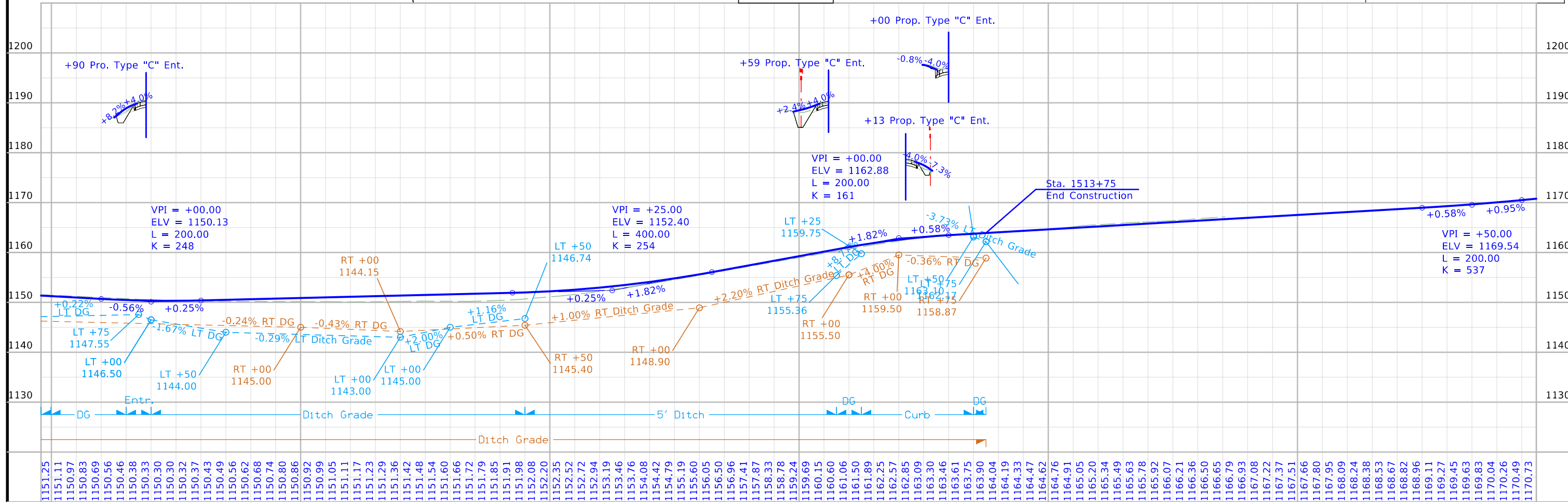
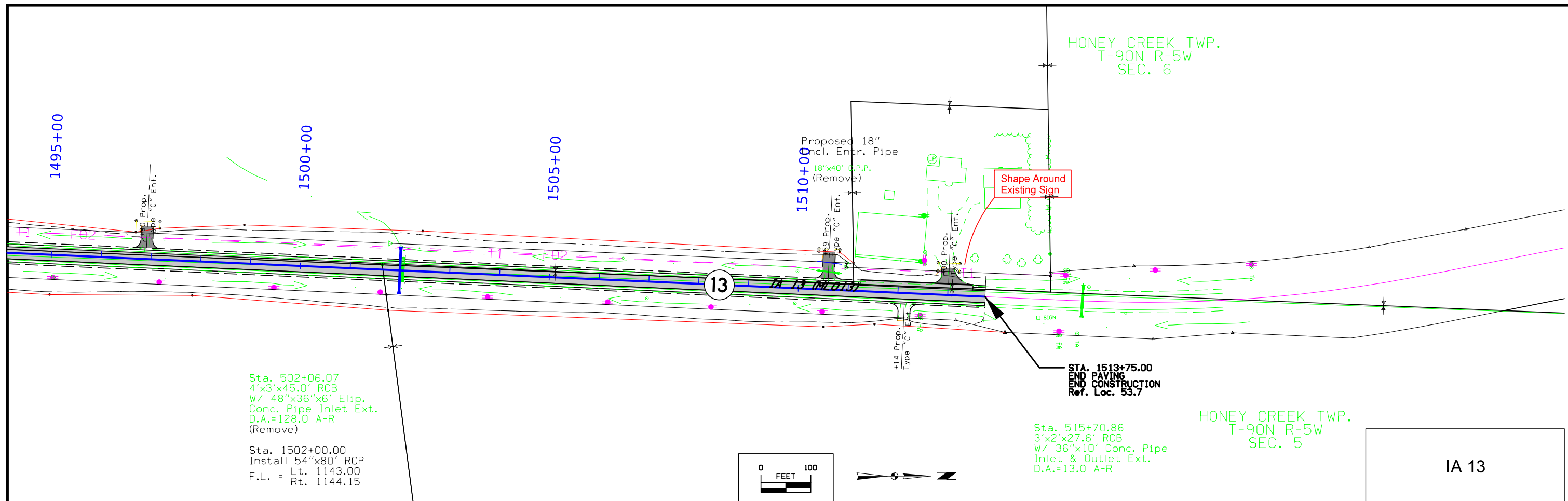


FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.15

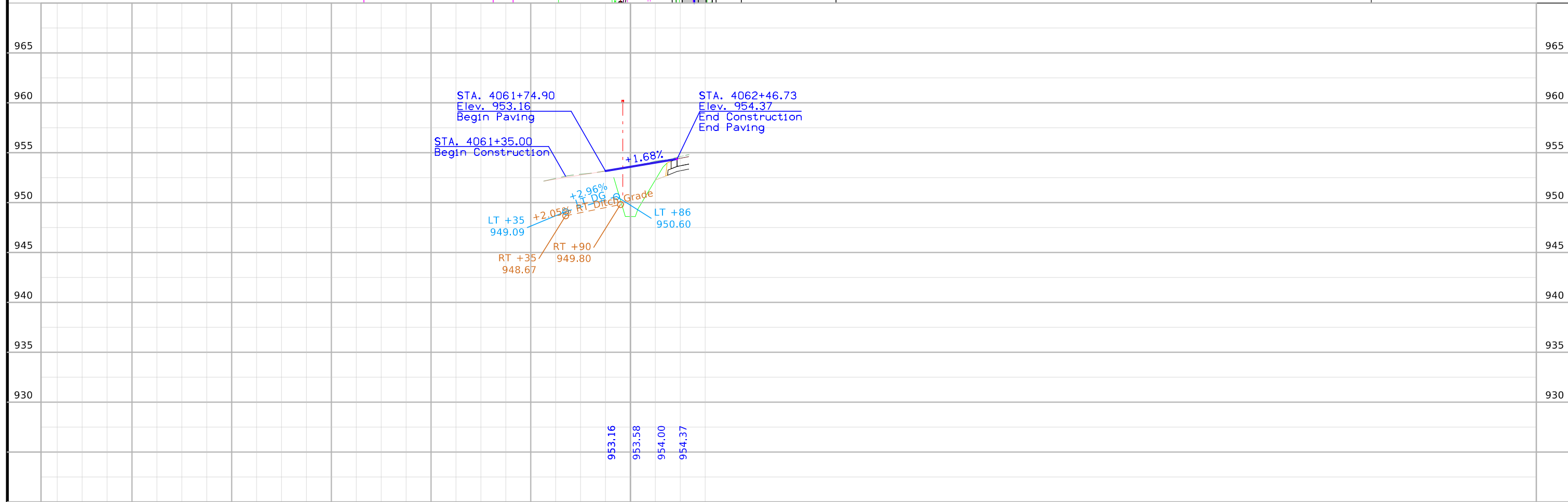
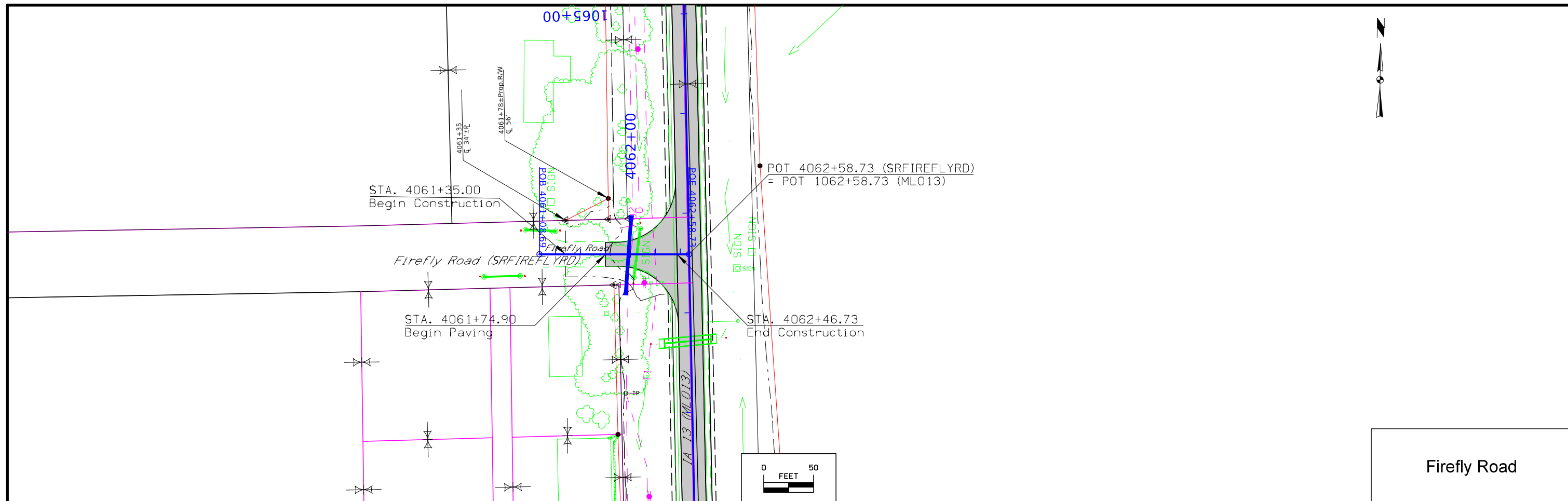


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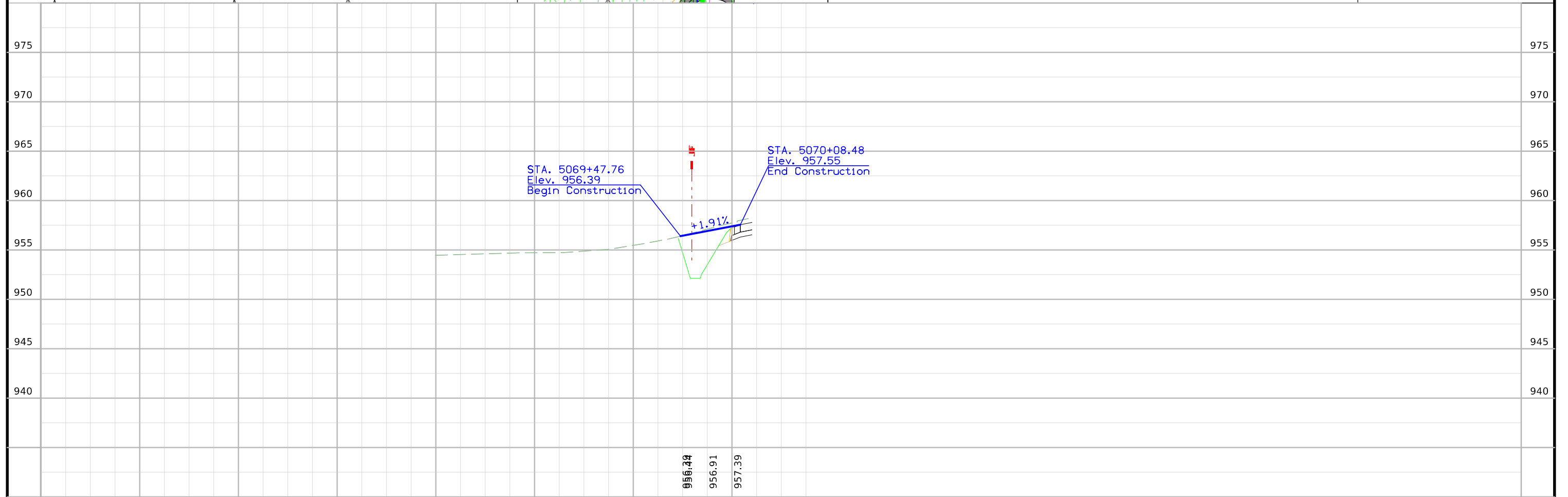
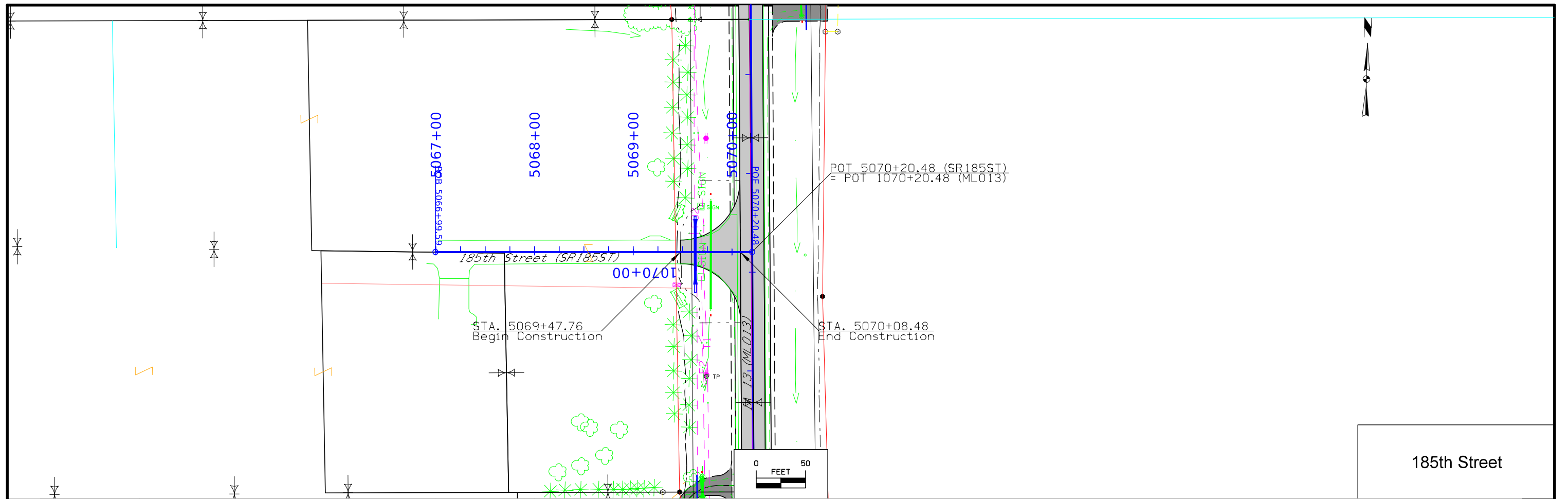




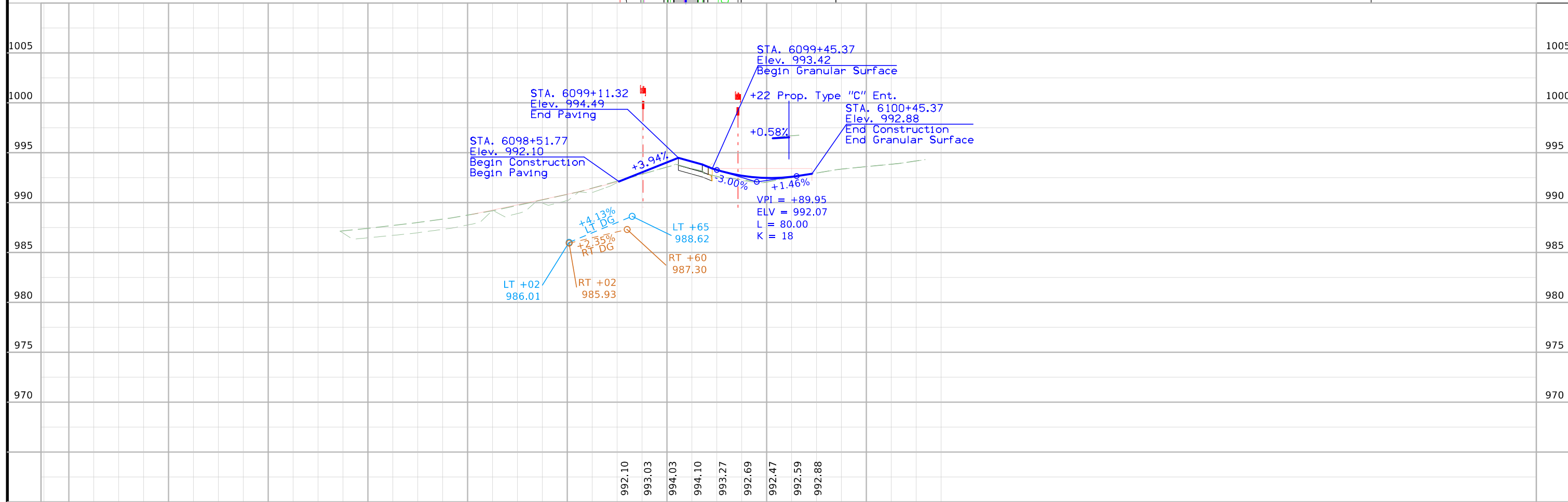
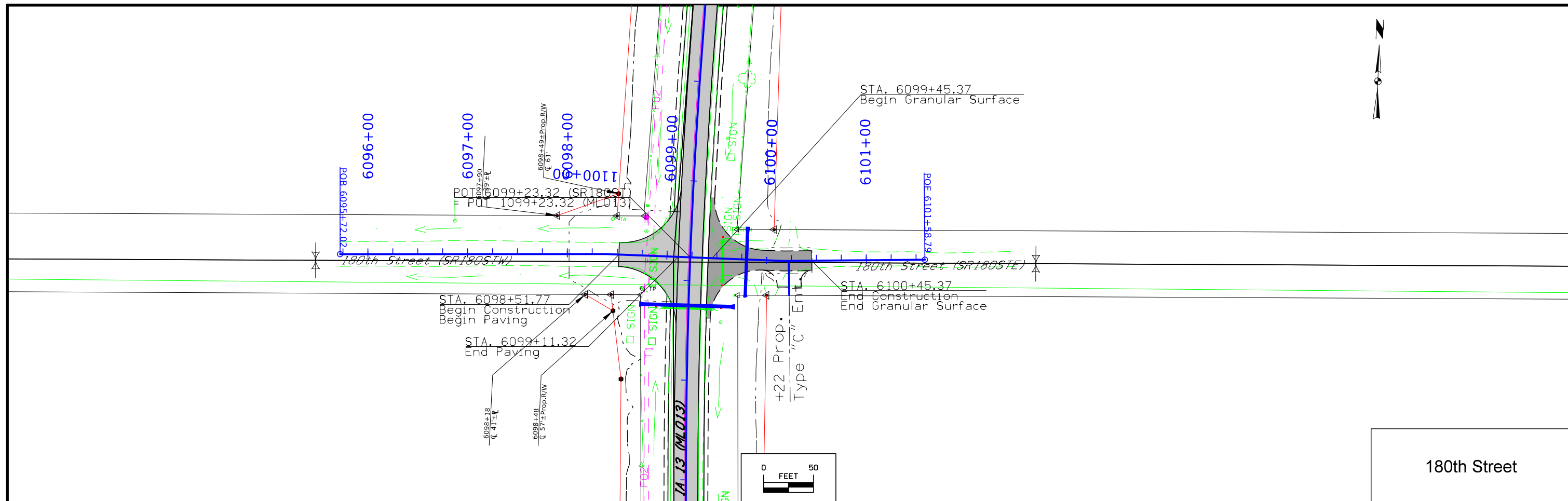
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
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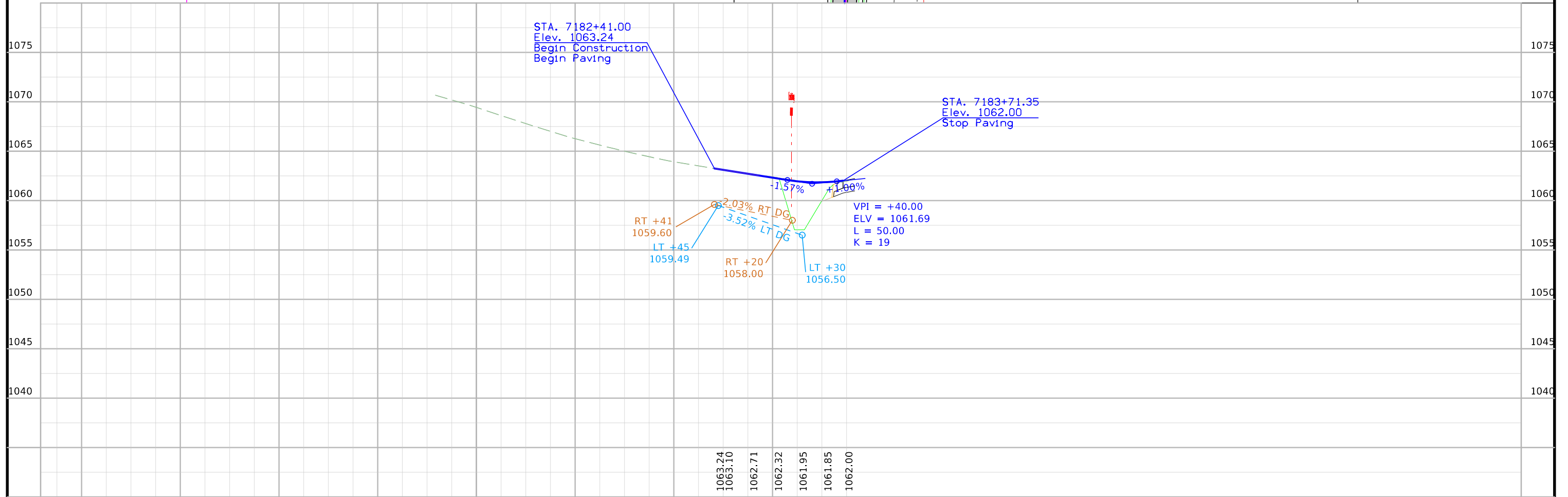
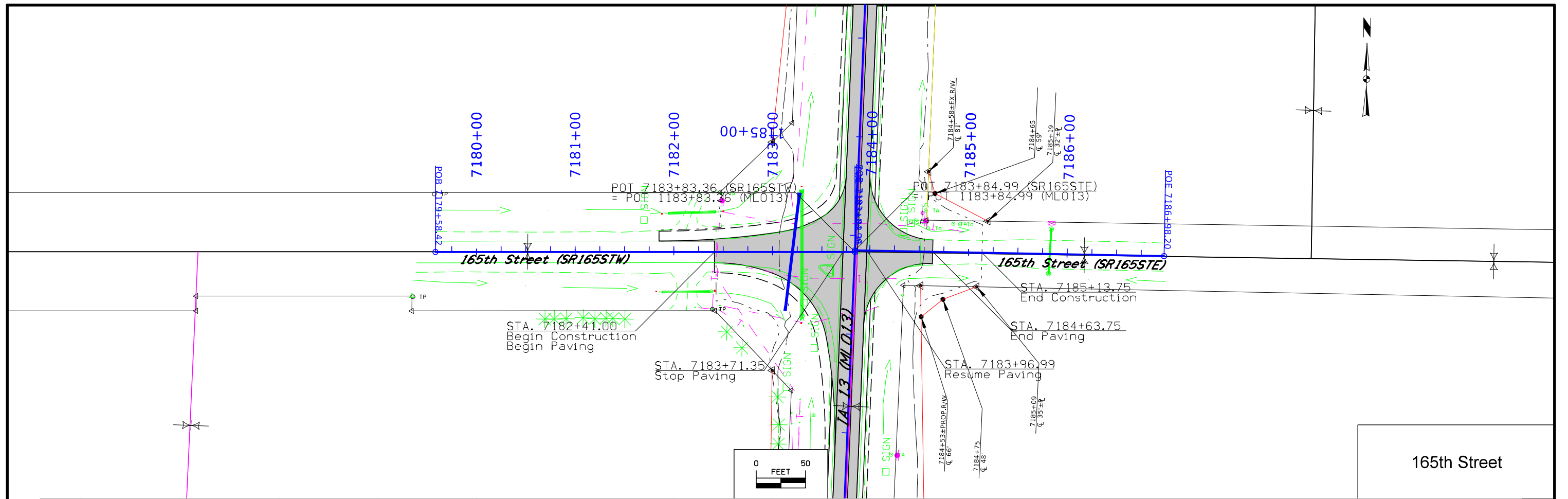
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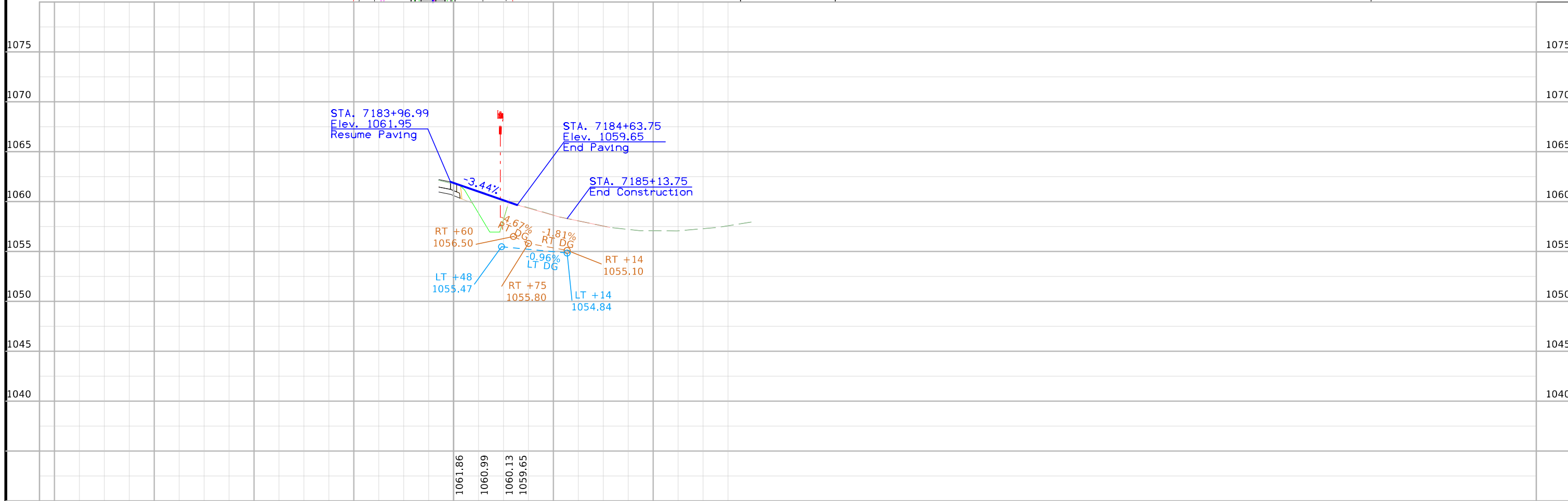
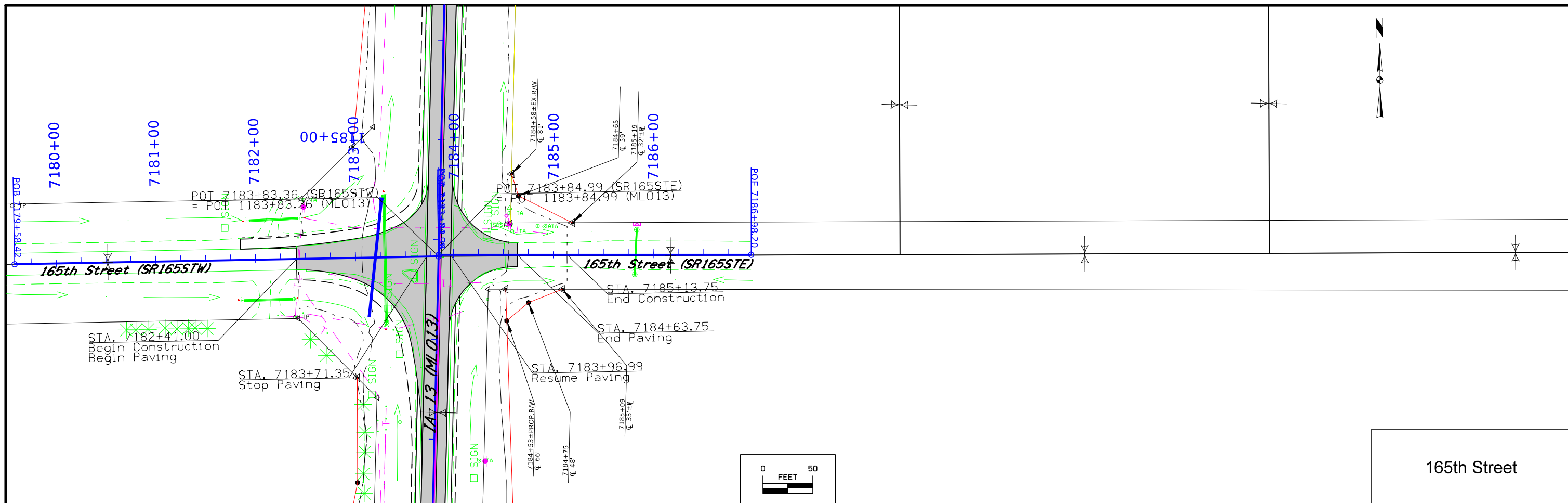
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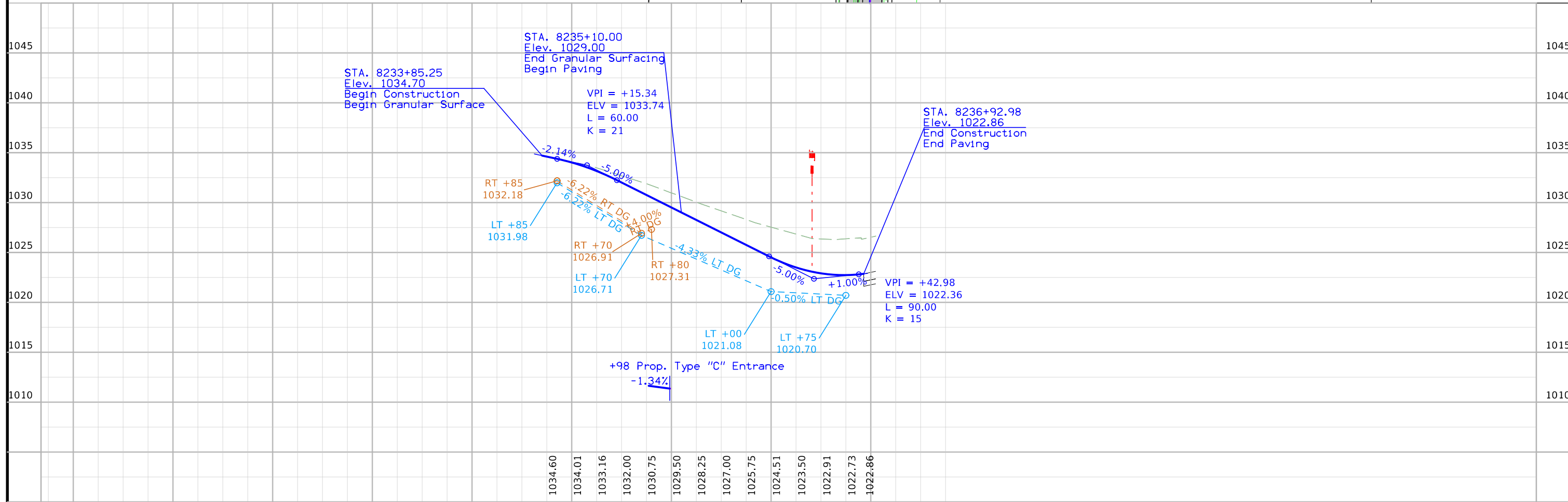
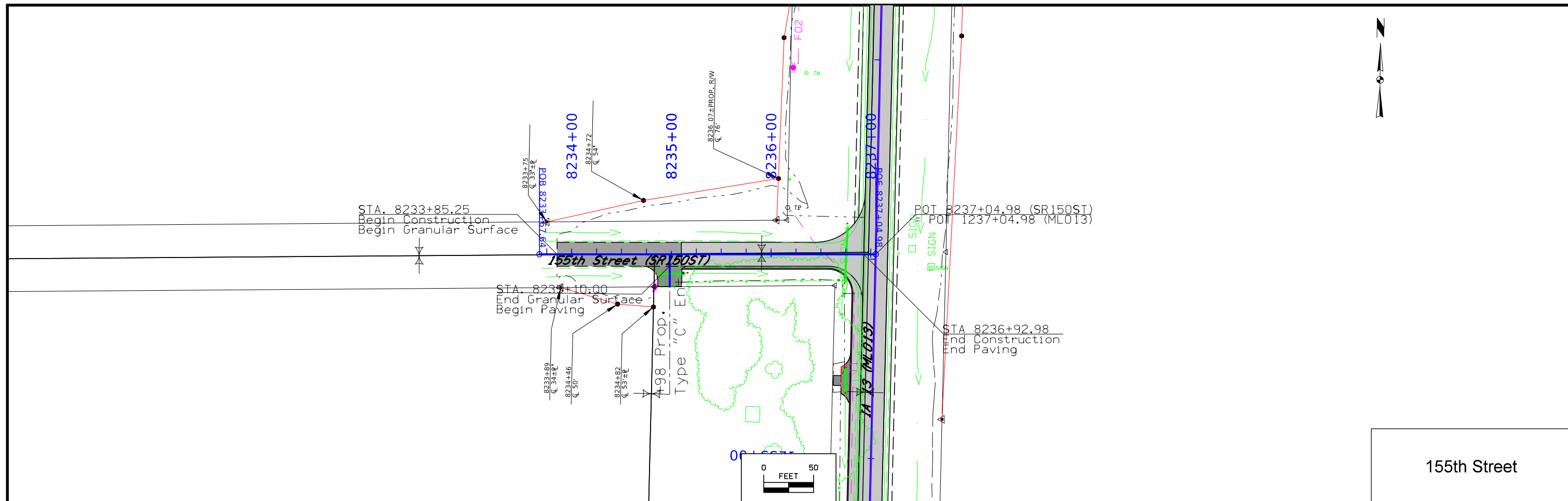
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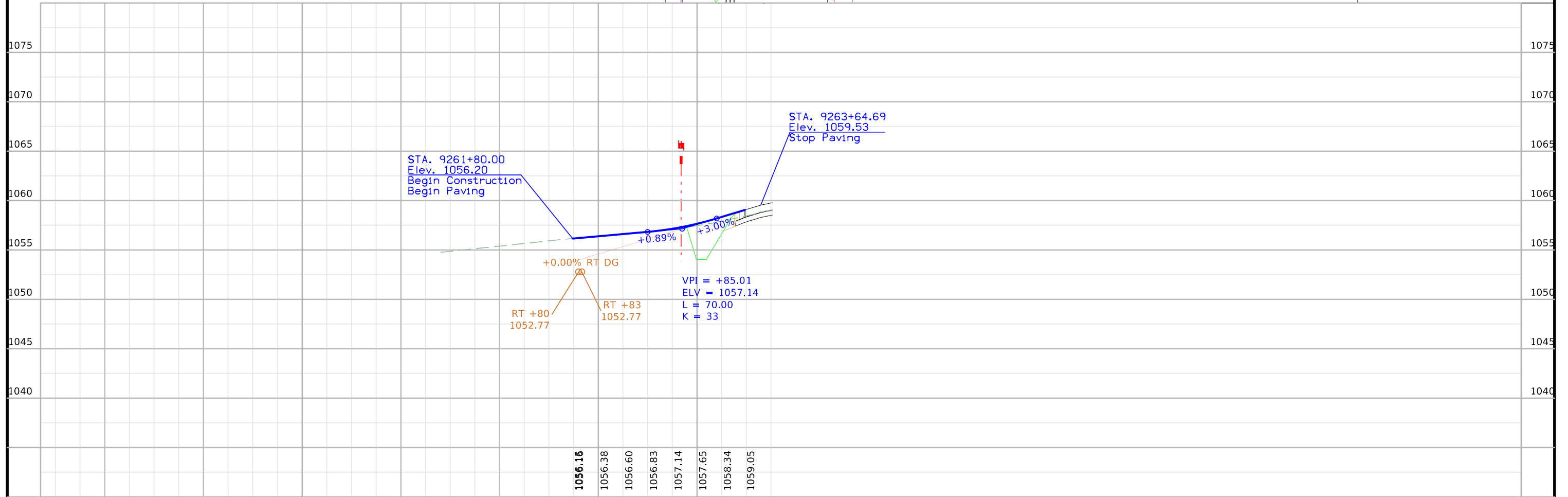
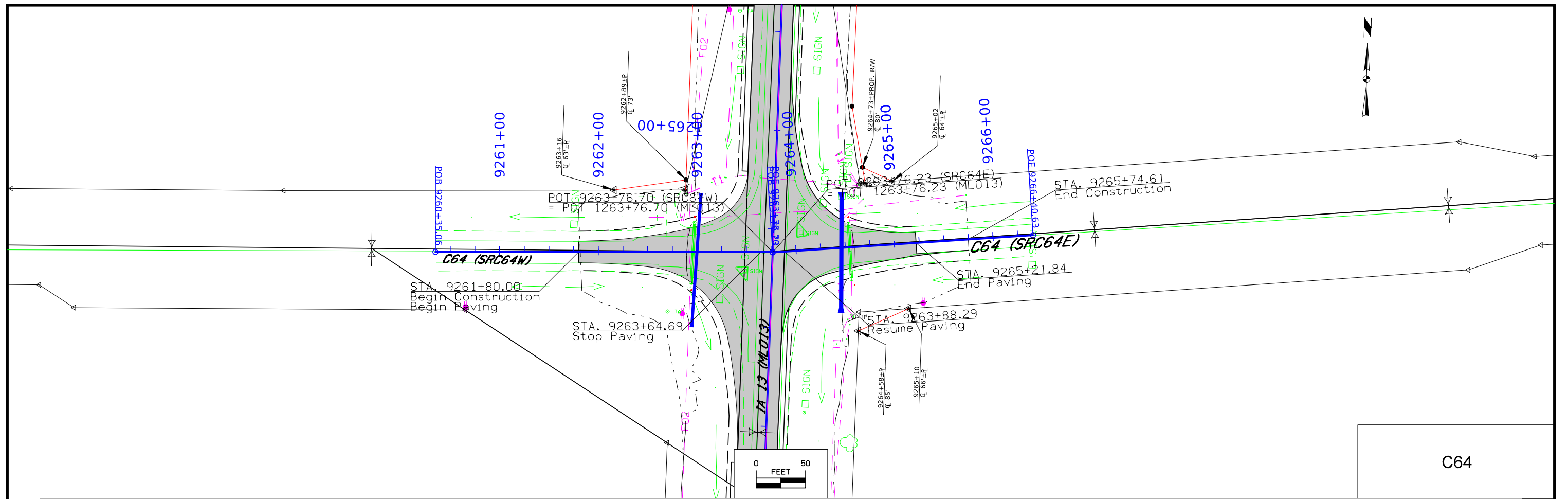


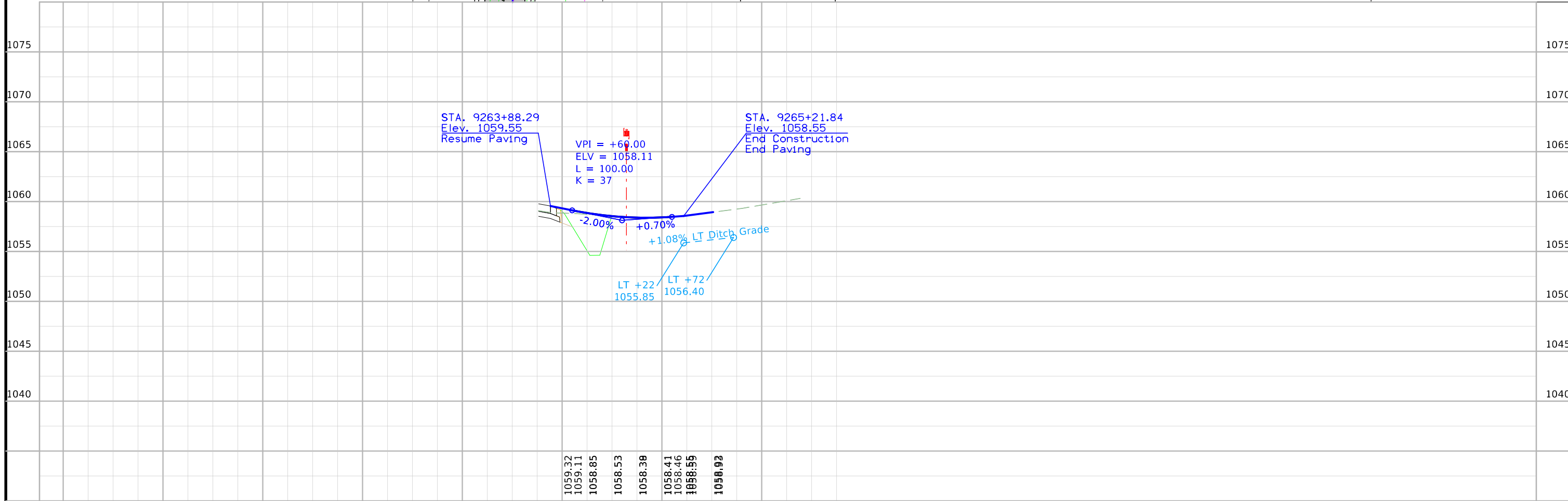
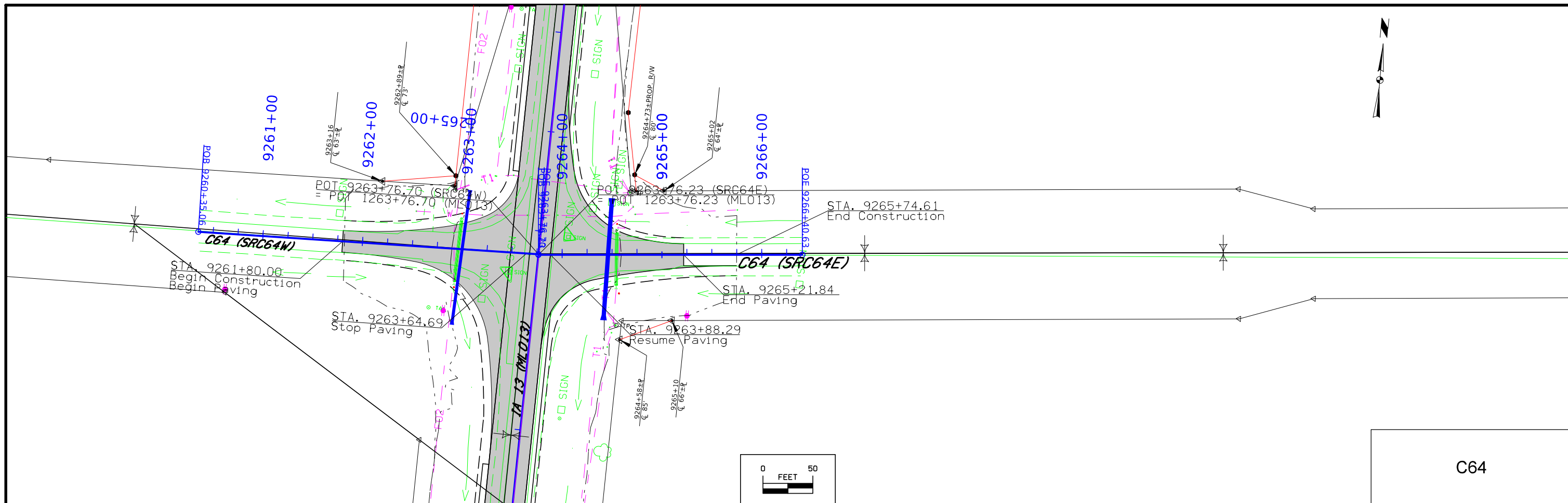
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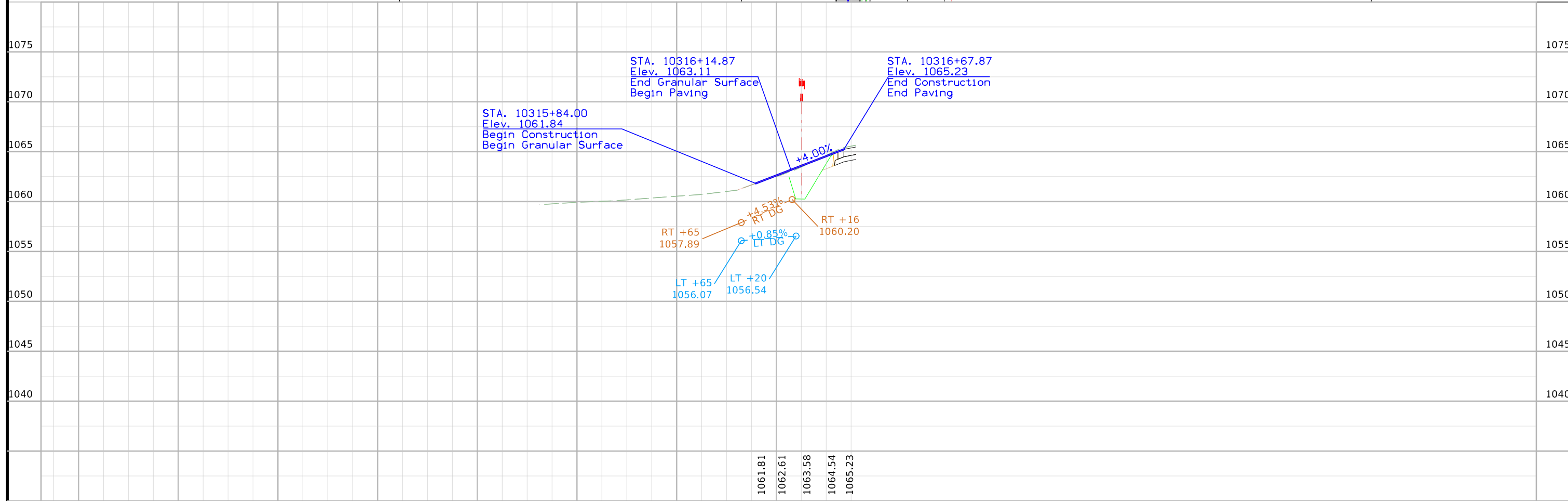
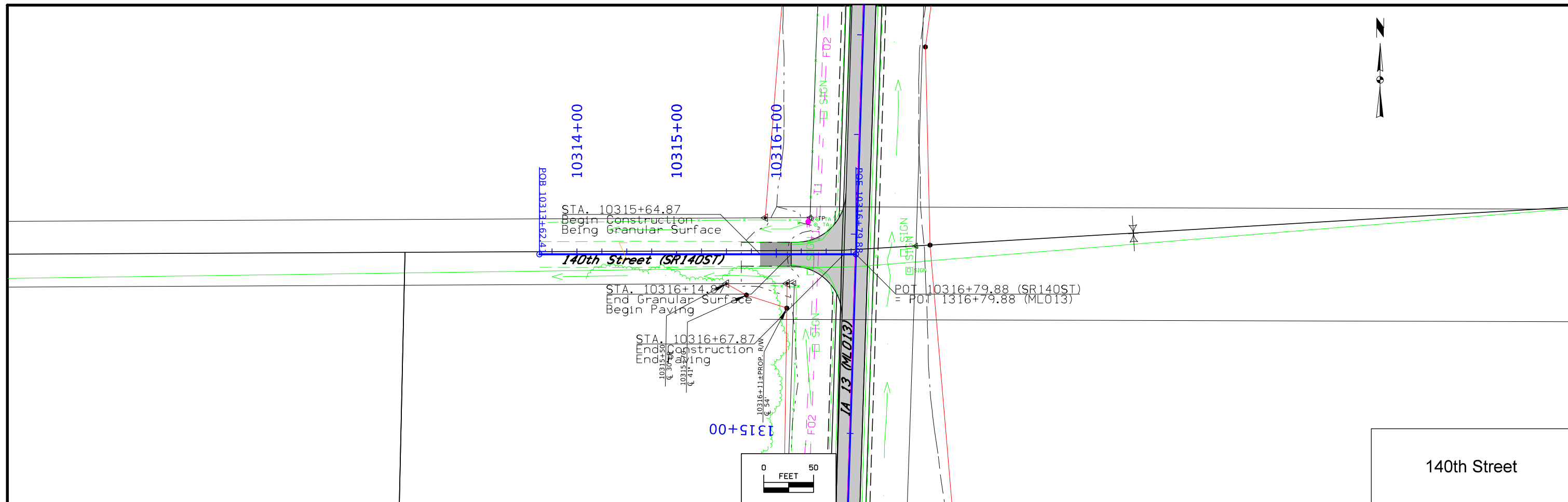
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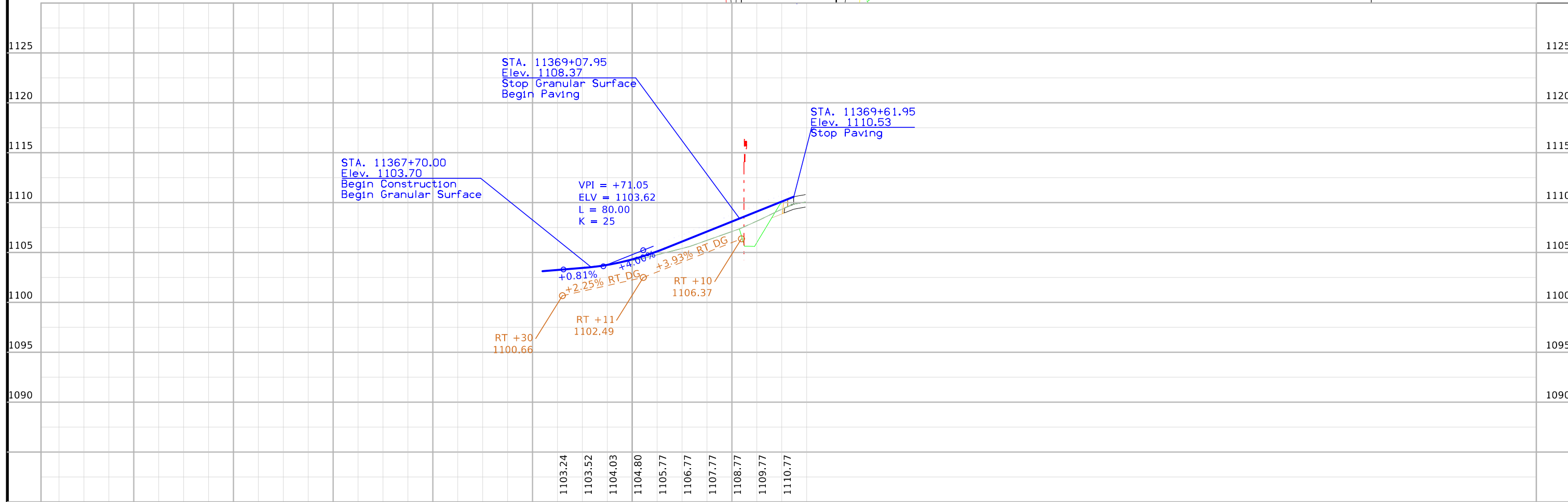
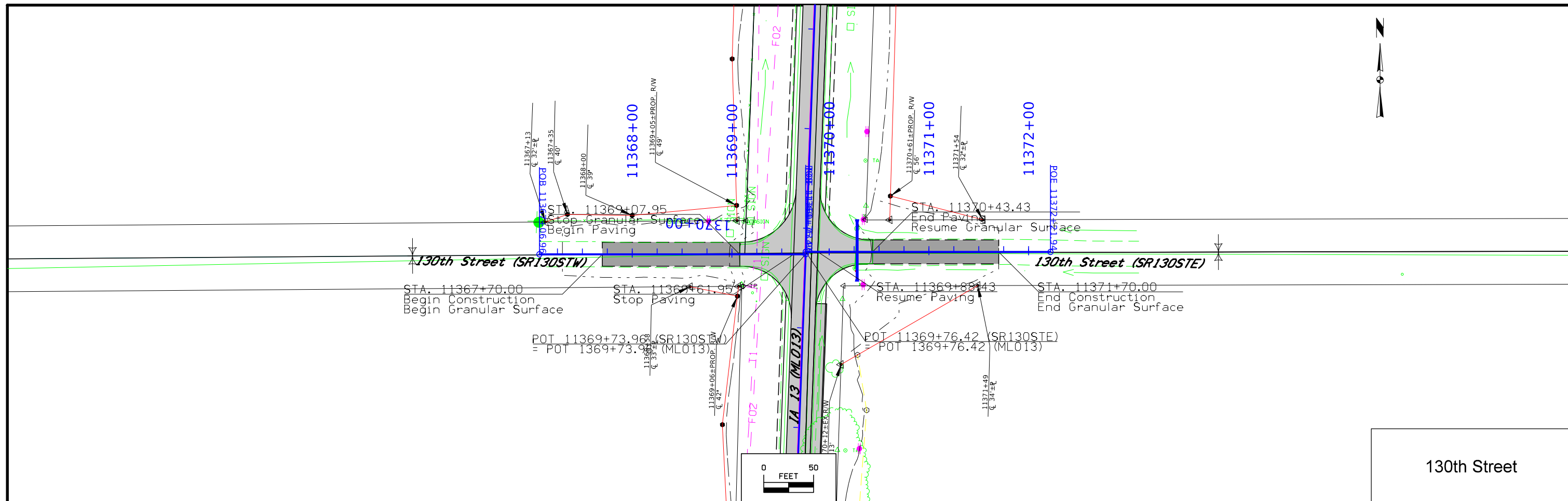




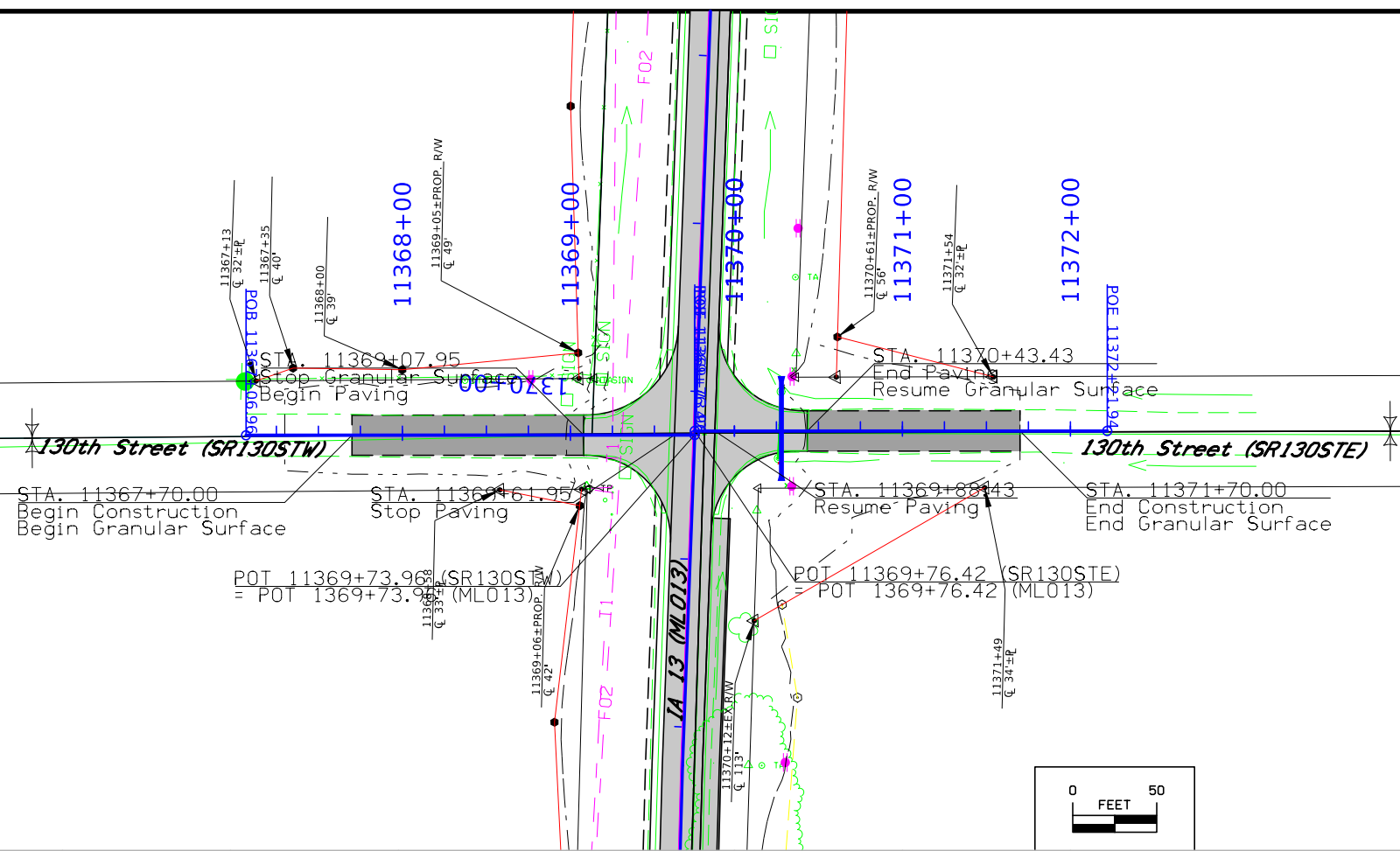
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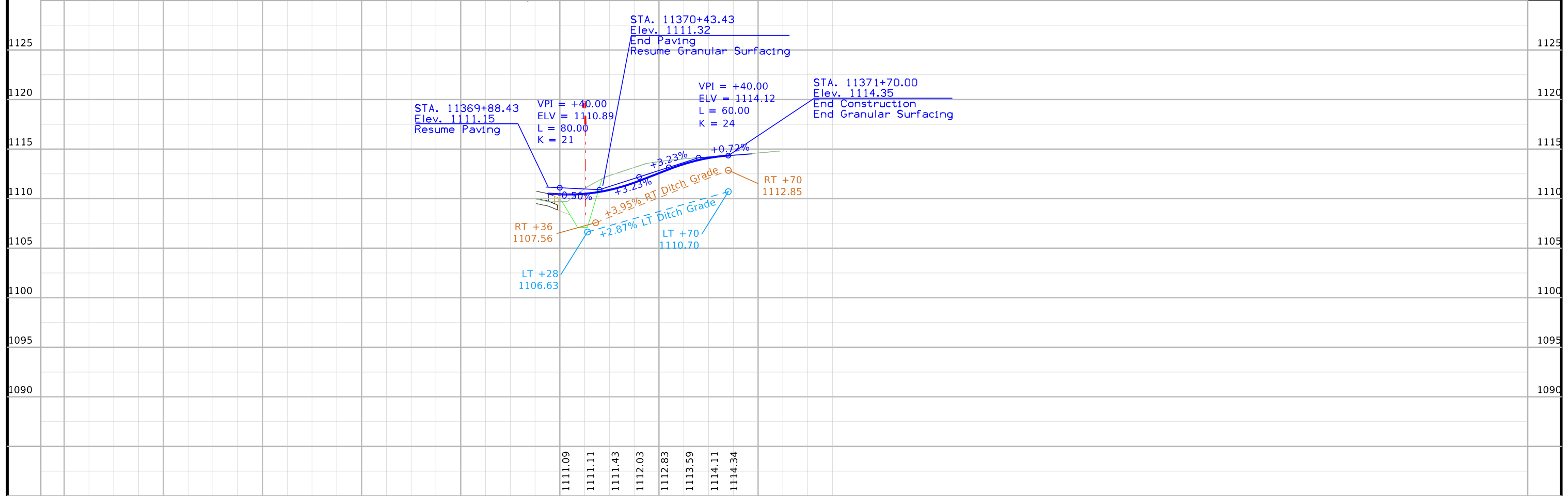
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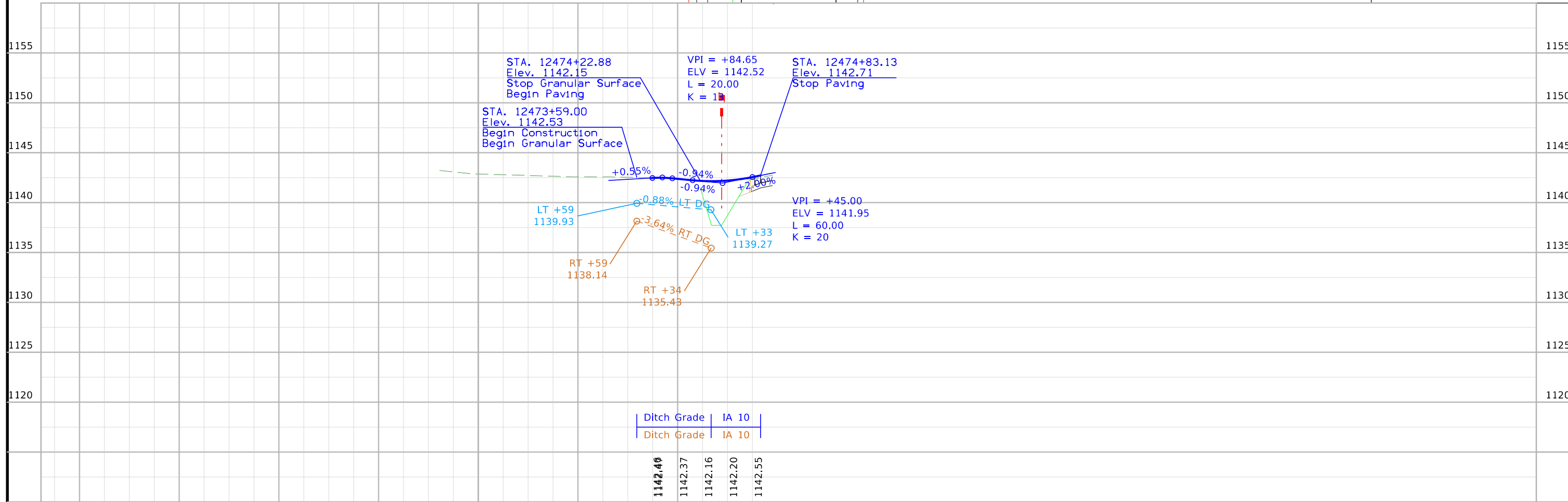
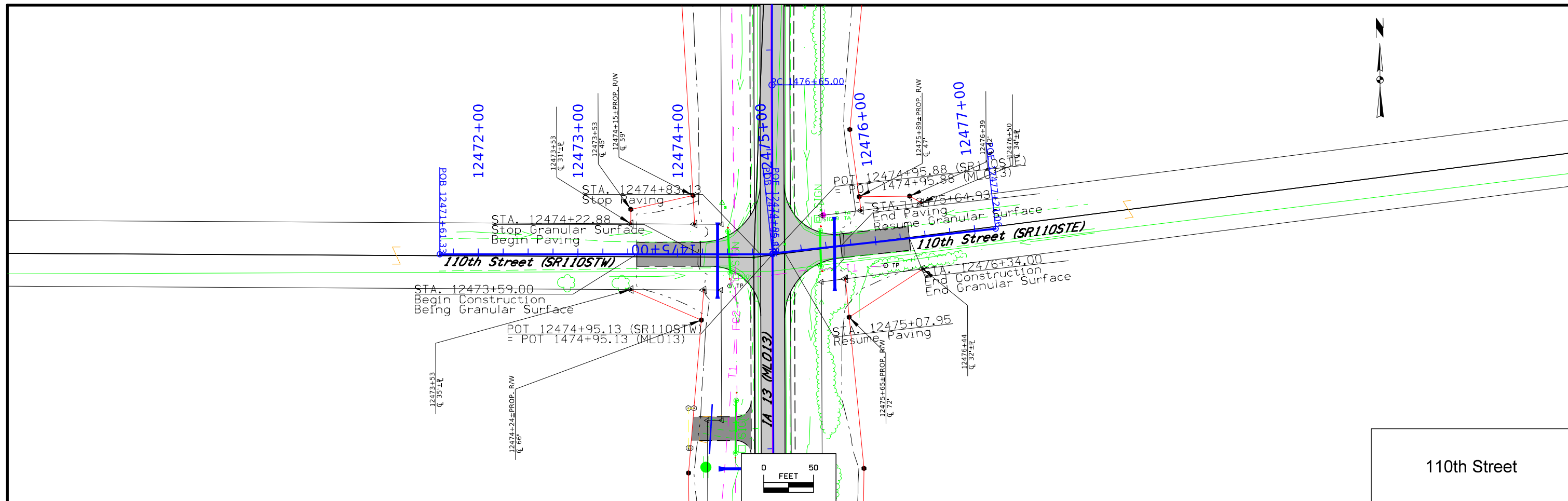
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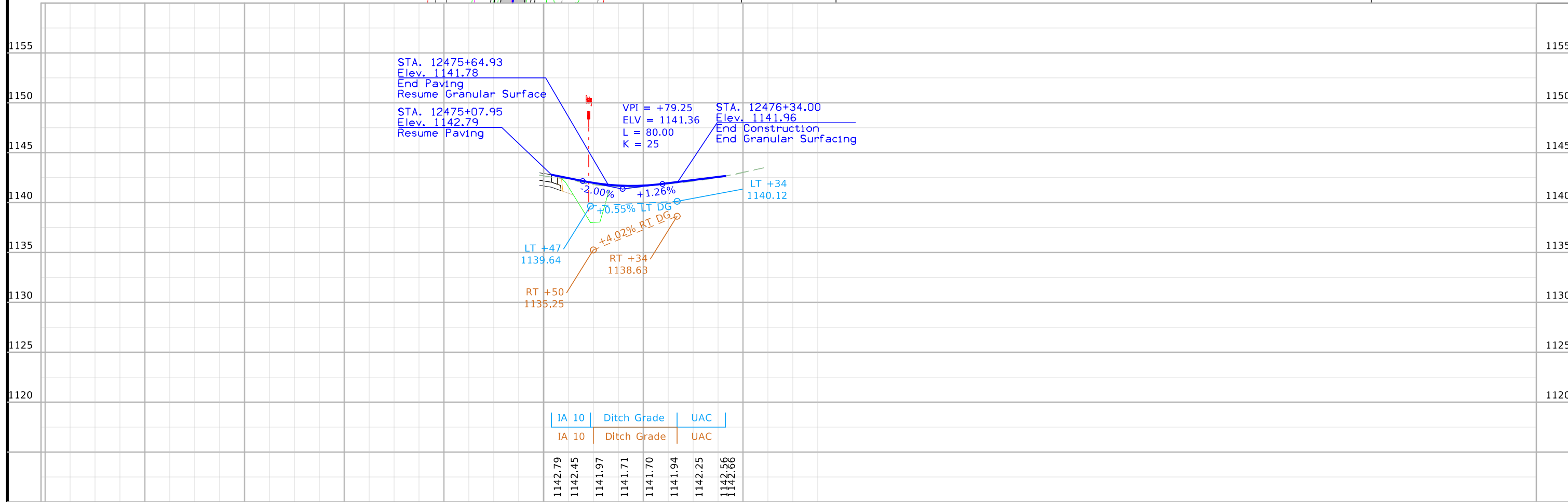
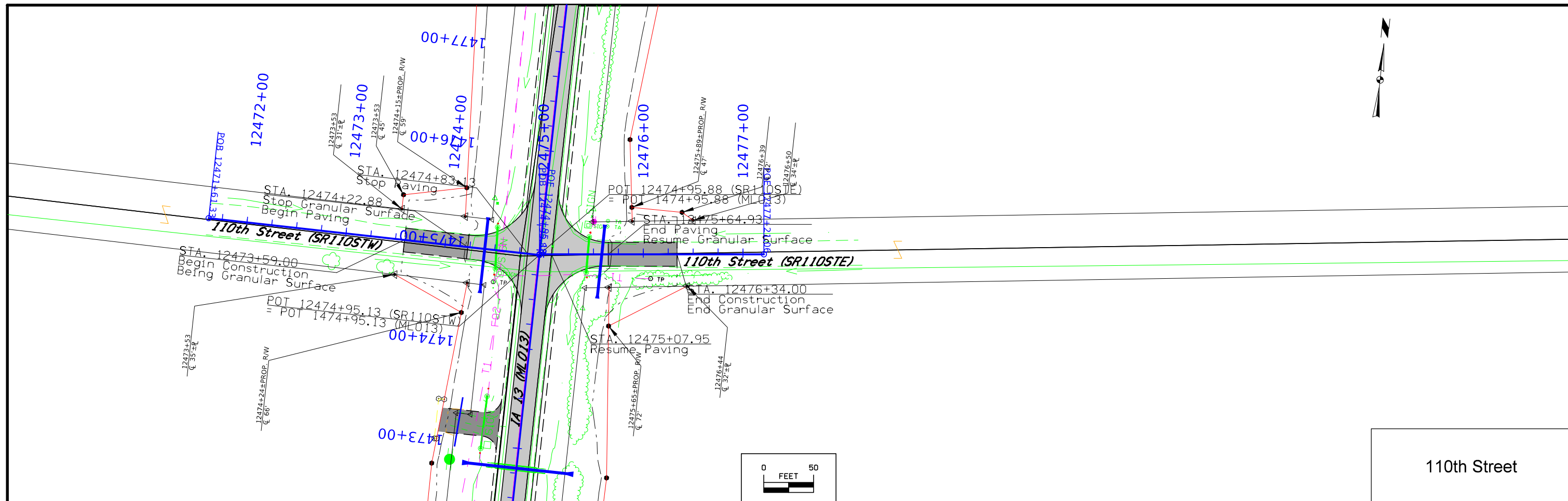
130th Street



11365+00	11366+00	11367+00	11368+00	11369+00	11370+00	11371+00	11372+00	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER E.11
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12468+00	12469+00	12470+00	12471+00	12472+00	12473+00	12474+00	12475+00	12476+00	12477+00
FILE NO.	ENGLISH	DESIGN TEAM Strum \ Prindle \ McNamara				DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28		SHEET NUMBER E.12



Survey Information

Delaware County
 NHSX-013-2(42)--3H-28
 PIN 18-28-013-010
 IA 13 – Partial Survey of IA 13 0.5 Miles N of Honey Creek to 0.2 Miles S of Junction IA 3
 Approx. 9 Miles
 SAP 0953.0

General Information

Measurement units for this survey are US survey feet. Project datum and control was established using IARTN. This is a partial survey of IA 13. Starting 0.5 Miles north of Honey Creek and ending 0.2 Miles south of Junction IA 3

Vertical Control

Vertical datum for this survey is relative to NAVD88. Geoid 12B was used in this survey. Iowa RTN was used to establish 16 control points surrounding the perimeter of the project. CP101-CP116 were then calibrated from CP100. Additional benchmarks were placed throughout the project using RTK GPS.

BM #518 EL= 1018.714' this survey 1983 AB Plan Sheet 16 of 97 EL=1018.75'
 BM #530 EL=1069.312' this survey 1983 AB Plan Sheet 16 of 97 EL=1069.57'
 BM #535 EL= 1093.007' this survey 1983 AB Plan Sheet 16 of 97 EL=1093.27'
 BM #542 EL= 1102.501' this survey 1983 AB Plan Sheet 16 of 97 EL=1102.75'
 BM #543 EL= 1110.365' this survey 1983 AB Plan Sheet 16 of 97 EL=1110.71'
 BM #544 EL= 1107.384' this survey 1983 AB Plan Sheet 16 of 97 EL=1107.57'

Horizontal Control

The project coordinate system for this survey is IaRCS Zone 3(U.S. Survey Feet). This survey control is relative to IaRTN reference Stations. IaRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. We establish 16 control points surrounding the perimeter of the project limits, observing each for 180 epochs. CP101-CP116 were then calibrated from CP100. Additional control points were placed throughout the project using GNSS Base-Rover setup relative to CP100.

The Combined Scale Factor may be used for total station stakeout and location to survey in the State Plane Coordinate system.

Alignment Information

The horizontal alignment for this survey is a retrace of As-Built Plans No. P-236Abc-24390948. Survey stationing was equated to the plan PC at STA 152+79.40 at point #4228, Found Cut "X" in Pavement, and run back and ahead without equation throughout the end of the survey. The alignment from STA 514+72.75 forward throughout the end of the survey is a retrace of As-Built Plans No. F-13-2(13)—20-28.

Survey stationing relates to as-built plan stationing as follows:

PT Sta. 14+79.40 Project No. P-236Abc-24390948
 Survey POT Sta. 14+79.40

PC Sta 152+79.40 Project No. P-236Abc-24390948
 Survey PC STA 152+79.40

PI STA 367+77.10 Project No. P-236Abc-24390948
 Survey PI STA 367+77.40

PC STA 423+86.60 Project No. P-236Abc-24390948
 Survey PC STA 423+86.90

PC STA 476+65.00 Project No. P-236Abc-24390948
 Survey PC STA 476+65.30

TS STA 616+83.75 Project No. F-13-2(13)—20-28
 Survey TS STA 514+72.75

CS STA 621+42.02 Project No. F-13-2(13)—20-28
 Survey CS STA 521+60.25

POT STA 628+44.99 Project No. F-13-2(13)—20-28
 Survey POT STA 528+64.19

Point Numbers Used

Control Points 100-117, 120-158
 Bench Points 500-536,538-551
 Topo 4000-33435,37000-38355,40000-40469

Point Numbers available for future surveys
 1-99,118,119,159-499,537,552-999,1037-1999,2034-2999,3027-3999,
 33436-36999,38356-39999,40470-100000

Date(s) of Survey

Begin Date 10/28/2019
 End Date 4/30/2020

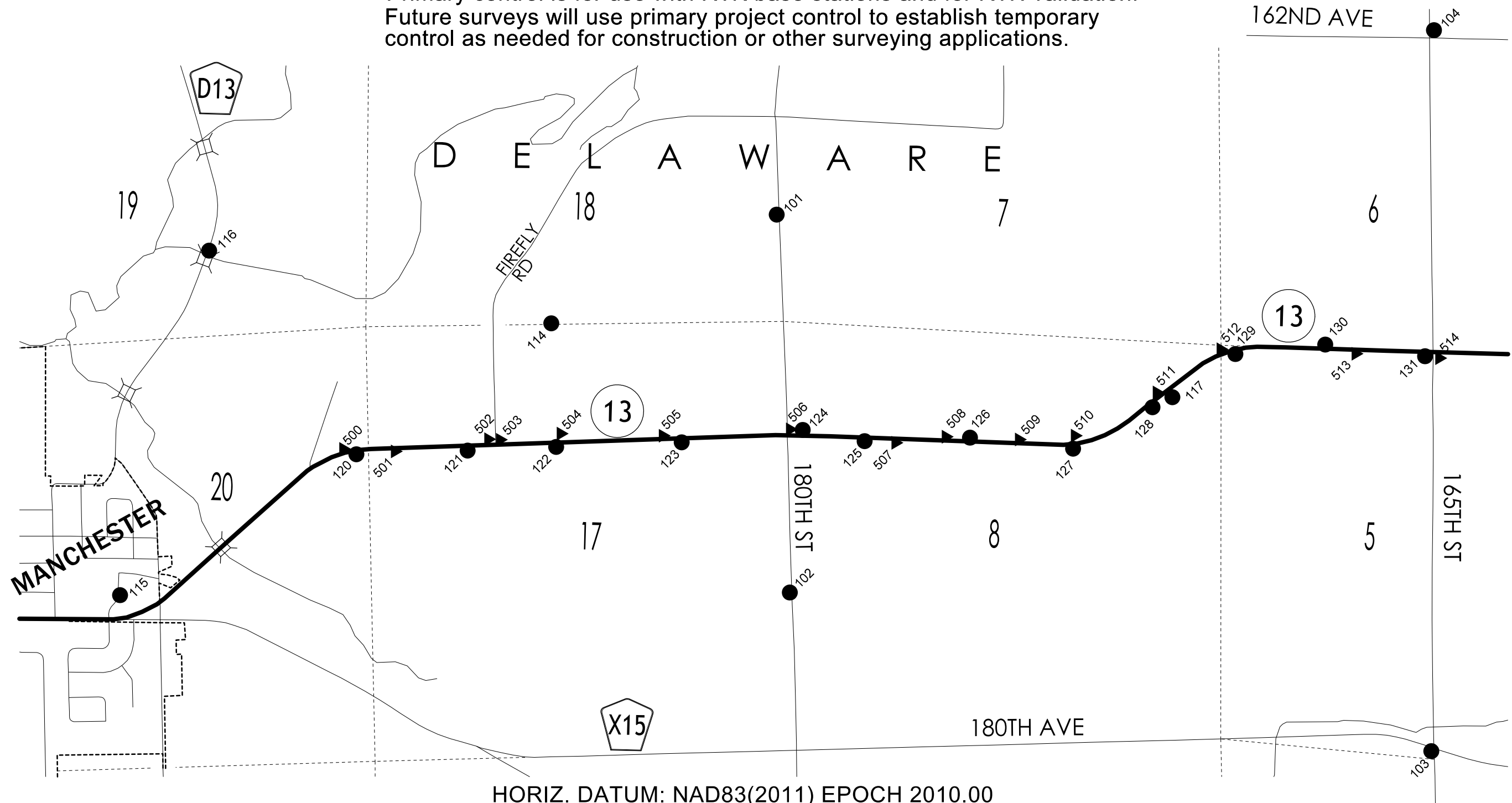
Party Personnel

Jeremy Leemon	Survey Project Manager
Chris Ries	Assistant Survey Project Manager
CJ Beckman	Instrument
Scott Jones	Instrument
Jacob Powers	Instrument

Survey Feature table lafea1/22/2015.doc
 Trimble IowaDOT19.1.fxl file
 CADD Feature Table and Cell files IDOTsurvey_smd

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) EPOCH 2010.00

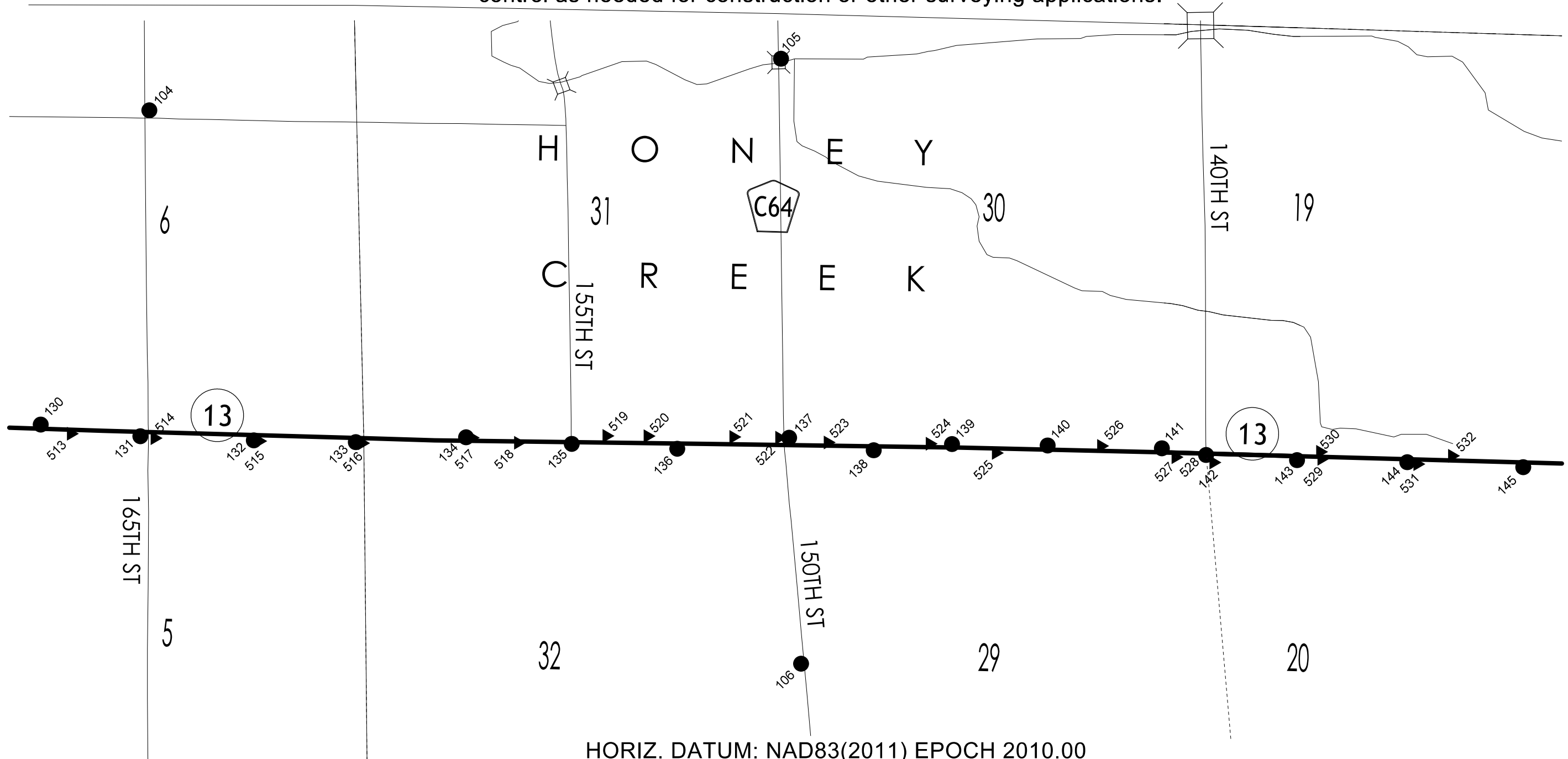
VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 3

Coordinate listing from next sheet will be used with 1aRTN 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) EPOCH 2010.00

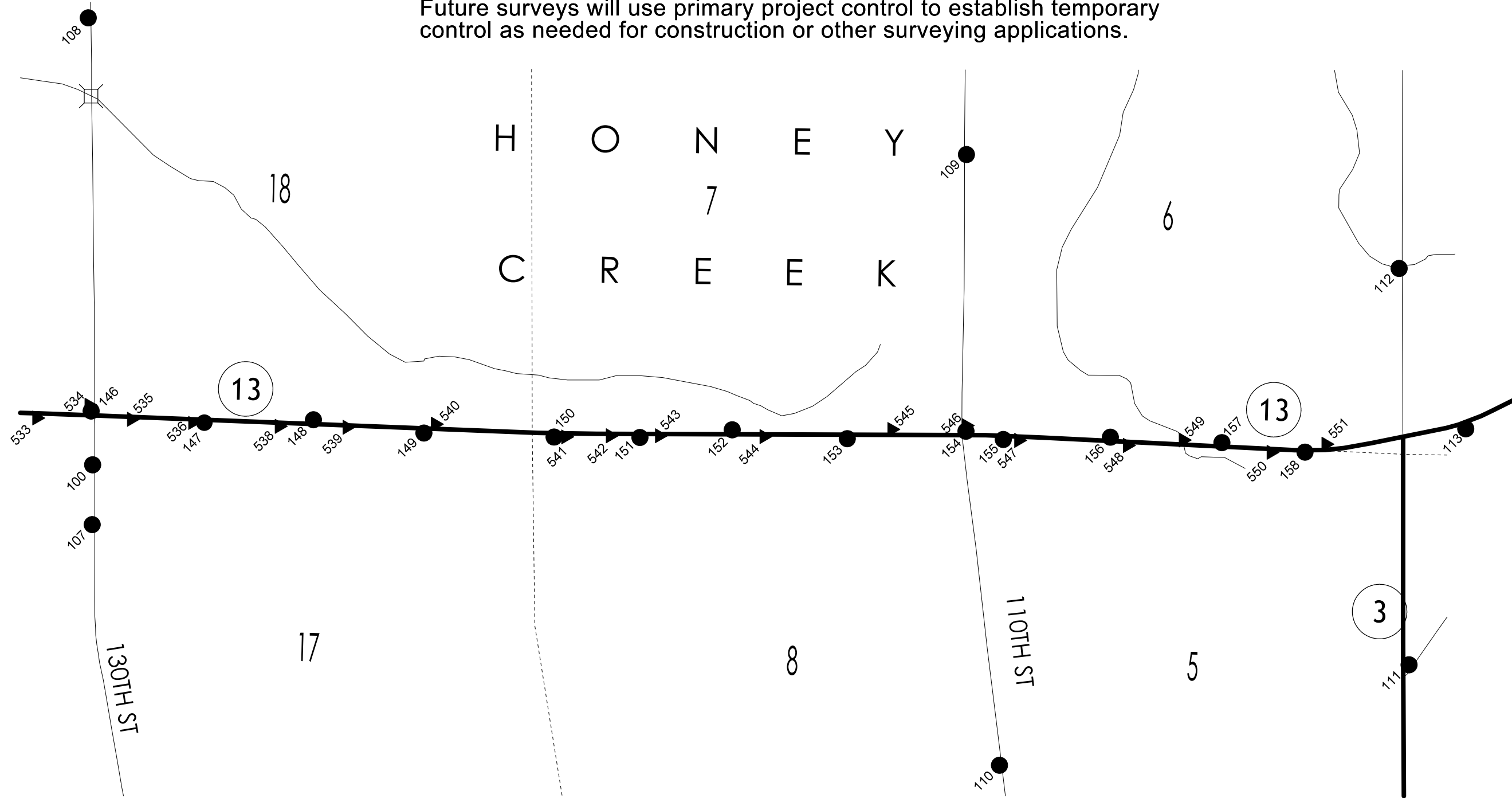
VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 3

Coordinate listing from next sheet will be used with 1aRTN 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
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 control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 3

Coordinate listing from next sheet will be used with 1aRTN for monument
 recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 3

Point Name	Northing	Easting	Elev.	Fea. Code	Description						
100	9156609.88	13428109.73	1113.52	CP	SET REBAR 6 IN DEEP 24 FT SOUTH OF 130TH ST CL 599 FT EAST OF IA 13 CL	136	9144692.05	13427297.85	1038.75	CP	SET REBAR 6 IN DEEP 67 FT EAST OF CL SOUTH SIDE OF FIELD ENT
101	9129808.81	13425361.63	965.32	CP	SET REBAR 6 IN DEEP 38 FT SOUTH OF 180TH ST CL 120 FT WEST OF CULVERT	137	9146097.64	13427159.21	1055.44	CP	FD REBAR 6 IN DEEP 90 FT WEST OF CL 60 FT NORTH OF 150TH ST CL
102	9129972.80	13430107.40	973.24	CP	FD REBAR 6 IN DEEP 26 FT SOUTH OF 180TH ST CL NEAR CORNER POST	138	9147160.26	13427317.49	1077.17	CP	SET REBAR 6 IN DEEP 54 FT EAST OF CL
103	9138025.75	13432098.74	1004.52	CP	SET REBAR 6 IN DEEP 50 FT SE OF 180TH AVE CL 38 FT SOUTH OF 165TH ST CL	139	9148144.45	13427239.17	1066.63	CP	SET REBAR 6 IN DEEP 40 FT WEST OF CL 24 FT NORTH OF PP
104	9138059.37	13423046.27	1014.03	CP	SET REBAR 6 IN DEEP 55 FT NORTH OF 165TH CL 93 FT WEST OF 162ND AVE CL	140	9149346.52	13427256.49	1051.70	CP	SET REBAR 6 IN DEEP 50 FT WEST OF CL 130 FT SOUTH OF PP
105	9145995.39	13422398.91	999.64	CP	SET REBAR 6 IN DEEP 26 FT NORTH OF 150TH ST 20 FT WEST OF TRIP BOX CUL	141	9150780.92	13427291.81	1064.30	CP	SET REBAR 6 IN DEEP 49 FT WEST OF CL 74 FT SOUTH OF RES ENT
106	9146247.69	13429998.35	1057.44	CP	SET REBAR 6 IN DEEP 44 FT SOUTH OF 150TH ST AT CORNER POST	142	9151337.12	13427376.73	1064.43	CP	SET REBAR 6 IN DEEP 21 FT EAST OF CL AT 140TH ST INTERSECTION
107	9156605.01	13428834.84	1108.73	CP	SET REBAR 6 IN DEEP 30 FT SOUTH OF 130TH ST CL AT FENCE	143	9152479.63	13427441.53	1086.44	CP	SET REBAR 6 IN DEEP 53 FT EAST OF CL 180 FT NORTH OF FARM ENT
108	9156557.81	13422695.84	1079.62	CP	FD REBAR 6 IN DEEP 30 FT SOUTH OF 130TH ST 100 FT WEST OF TREE	144	9153864.57	13427467.49	1092.56	CP	SET REBAR 6 IN DEEP 38 FT EAST OF CL NORTH SIDE OF FIELD ENT
109	9167201.34	13424352.04	1161.98	CP	FD REBAR 6 IN DEEP 20 FT NORTH OF 110TH ST 530 FT WEST OF FARM ENT	145	9155321.18	13427529.19	1145.65	CP	SET REBAR 6 IN DEEP 58 FT EAST OF CL NORTH SIDE OF FENCE
110	9167602.09	13431749.77	1095.75	CP	FD REBAR 6 IN DEEP 24 FT SOUTH OF 110TH ST WEST SIDE OF FIELD ENT	146	9156592.29	13427457.94	1107.17	CP	SET REBAR 6 IN DEEP 52 FT WEST OF CL 40 FT SOUTH OF 130TH ST CL
111	9172565.41	13430532.79	1142.69	CP	FD REBAR 6 IN DEEP 63 FT NORTH OF IA 3 CL 45 FT SW OF 398TH CL	147	9157963.77	13427599.85	1105.72	CP	FD REBAR 6 IN DEEP 36 FT EAST OF CL 63 FT SOUTH OF PP
112	9172446.34	13425731.62	1135.93	CP	FD REBAR 6 IN DEEP 40 FT SOUTH OF 400TH ST 45 FT EAST OF CULVERT	148	9159286.59	13427564.38	1104.43	CP	FD REBAR 6 IN DEEP 51 FT WEST OF CL 31 FT SOUTH OF PP
113	9173253.97	13427674.30	1171.00	CP	FD REBAR 6 IN DEEP 77 FT NE OF CL 13 FT SE OF BILLBOARD	149	9160625.43	13427725.48	1076.09	CP	SET REBAR 6 IN DEEP 58 FT EAST OF CL 10 FT NORTH OF PIPE
114	9126978.75	13426726.67	961.96	CP	SET REBAR 6 IN DEEP 42 SOUTH OF 185TH ST ACROSS FORM HOUSE #16939	150	9162203.10	13427774.44	1131.86	CP	SET REBAR 6 IN DEEP 47 FT EAST OF CL 140 FT SOUTH OF PP
115	9121566.03	13430140.63	953.12	CP	FD REBAR 6 IN DEEP W CAP 4 FEET BEHIND CURB NORTH OF WINDSOR DR	151	9163243.30	13427778.90	1112.35	CP	SET REBAR 6 IN DEEP 44 FT EAST OF CL NORTH SIDE OF FIELD ENT
116	9122683.94	13425814.54	943.05	CP	FD MAG NAIL NW COR OF BRIDGE 195TH ST	152	9164363.14	13427685.82	1127.42	CP	CUT X ON ROW RAIL 53 FT WEST OF CL 17 FT SOUTH OF PP
117	9134714.93	13427604.45	1037.31	CP	SET REBAR 6 IN DEEP W/ ALUM. CAP 32 FT EAST OF CL NORTH OF FIELD ENT	153	9165757.49	13427793.10	1111.73	CP	SET REBAR 6 IN DEEP 49 FT EAST OF CL 100 FT SOUTH OF FIELD ENT
120	9124532.64	13428371.06	951.85	CP	SET REBAR 6 IN DEEP 48 FT EAST OF CL	154	9167195.05	13427702.90	1142.33	CP	SET REBAR 6 IN DEEP 47 FT WEST OF CL 44 FT NORTH OF 110 ST CL
121	9125928.89	13428325.25	953.30	CP	SET REBAR 6 IN DEEP 62 FT EAST OF CL 15 FT SOUTH OF FIELD ENT	155	9167648.42	13427803.78	1160.74	CP	SET REBAR 6 IN DEEP 47 FT EAST OF CL 24 FT NORTH OF PP
122	9127040.58	13428279.03	953.24	CP	SET REBAR 6 IN DEEP 54 FT EAST OF CL AT 185TH ST	156	9168946.09	13427776.34	1147.54	CP	SET REBAR 6 IN DEEP 43 FT WEST OF CL
123	9128616.20	13428220.96	984.65	CP	SET REBAR 6 IN DEEP 48 FT EAST OF CL SOUTH SIDE OF FIELD ENT	157	9170297.74	13427841.49	1148.83	CP	SET REBAR 6 IN DEEP 45 FT WEST OF CL
124	9129993.81	13428086.94	990.79	CP	FD REBAR 6 IN DEEP 45 FT WEST OF CL 47 FT NORTH OF 180TH ST	158	9171305.63	13427956.13	1165.63	CP	SET REBAR 6 IN DEEP 22 FT EAST OF CL 85 FT NORTH OF PIPE
125	9130911.52	13428206.35	1018.27	CP	SET REBAR 6 IN DEEP 42 FT EAST OF CL 105 FT SOUTH OF RES ENT						
126	9132234.92	13428163.03	1014.19	CP	SET REBAR 6 IN DEEP 51 FT WEST OF CL 23 FT NORTH OF PP						
127	9133529.21	13428301.41	1029.12	CP	SET REBAR 6 IN DEEP 58 FT EAST OF CL 50 FT SOUTH OF FARM ENT						
128	9134525.69	13427780.45	1043.43	CP	SET REBAR 6 IN DEEP 52 FT EAST OF CL 12 FT SE OF FARM ENT						
129	9135566.27	13427113.17	1018.46	CP	SET REBAR 6 IN DEEP 53 FT EAST OF CL SOUTH SIDE OF FIELD ENT						
130	9136694.59	13426993.96	1059.95	CP	SET REBAR 6 IN DEEP 50 FT WEST OF CL 120 FT NORTH OF SIGN						
131	9138002.20	13427135.72	1058.79	CP	SET REBAR 6 IN DEEP 50 FT EAST OF CL 43 FT SOUTH OF 165TH ST CL						
132	9139371.31	13427192.45	1026.19	CP	SET REBAR 6 IN DEEP 67 FT EAST OF CL 14 FT SOUTH OF FIELD ENT						
133	9140721.13	13427224.26	1015.91	CP	SET REBAR 6 IN DEEP 59 FT EAST OF CL NW OF PP						
134	9142038.67	13427154.53	1019.07	CP	CUT X ON ROW RAIL 41 FT WEST OF CL						
135	9143366.41	13427236.14	1023.65	CP	SET REBAR 6 IN DEEP 23 FT EAST OF CL AT 155TH ST INTERSECTION						

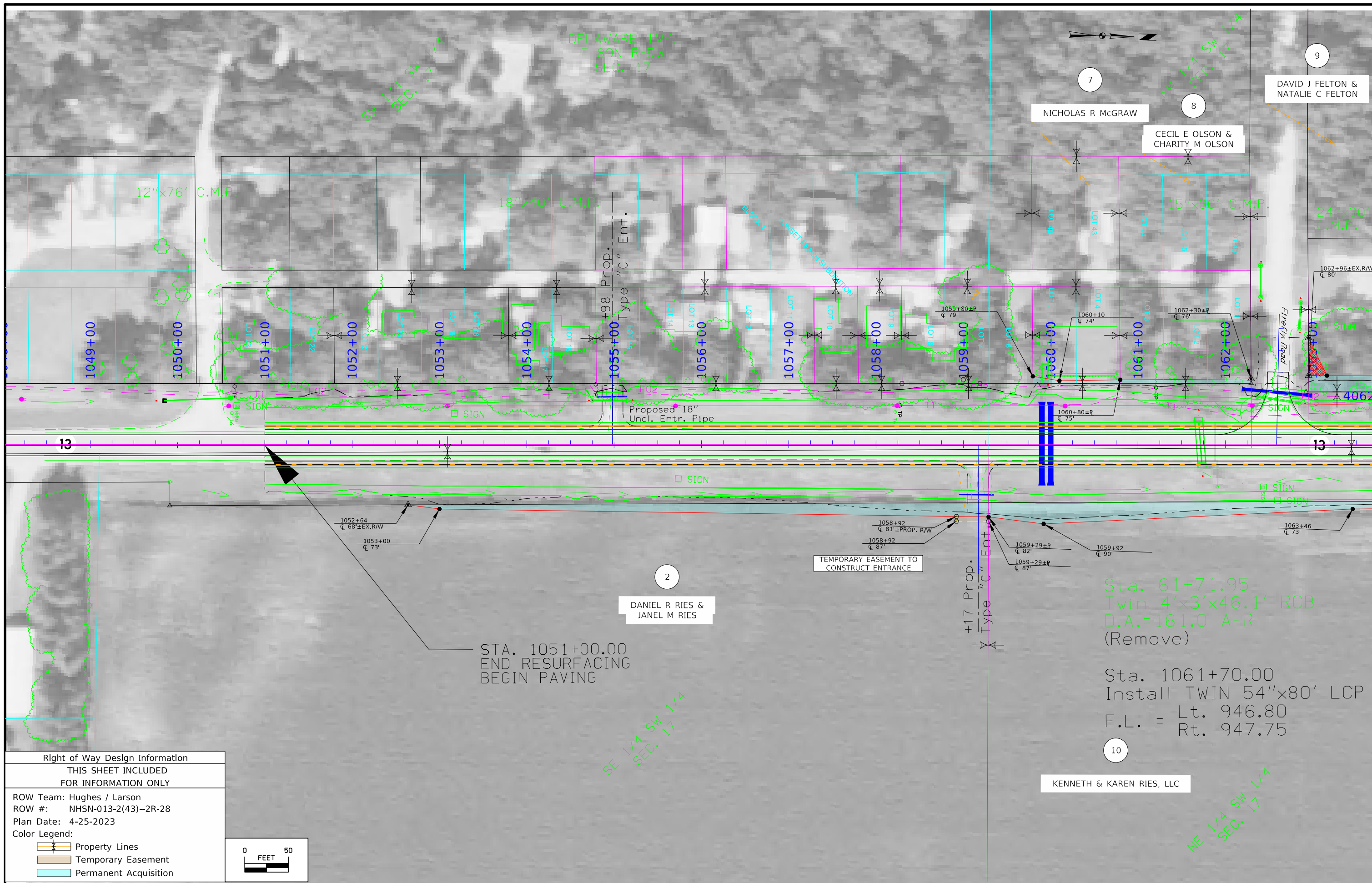
HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 3

500	9124367.87	13428304.94	953.41	BM	SET RR SPK E SIDE PP 50 FT WEST OF CL	536	9157819.84	13427602.50	1105.61	BM	SET RR SPK W SIDE PP 45 FT EAST OF CL
501	9125015.63	13428335.26	956.41	BM	CUT X ON ROW RAIL 42 FT EAST OF CL 50 FT NORTH OF FIREFLY RD	538	9158871.98	13427643.70	1092.79	BM	SET RR SPK W SIDE PP 45 EAST OF CL 146 FT NORTH OF PIPE
502	9126252.25	13428205.88	952.15	BM	FD BARN SPIKE 46 FT WEST OF CL 33 FT SOUTH OF FIREFLY RD	539	9159694.28	13427655.07	1093.66	BM	FD IHC BM ON INHDWL EAST SIDE
503	9126333.77	13428188.76	954.23	BM	CUT X ON ROW RAIL 60 FT WEST OF CL	540	9160764.89	13427618.51	1075.62	BM	SET RR SPK E SIDE PP 54 FT WEST OF CL 146 NORTH OF PIPE
504	9127073.13	13428145.74	956.48	BM	CUT A SQUARE ON SOUTH CORNER FAWN TRAIL SIGN	541	9162343.30	13427772.27	1121.83	BM	SET RR SPK W SIDE PP 42 FT EAST OF CL 45 FT SOUTH OF ENT
505	9128378.46	13428138.74	980.67	BM	SET RR SPK E SIDE PP 42 FT WEST OF CL	542	9162884.26	13427758.79	1102.50	BM	FD IHC BM ON IN HDWL
506	9129981.76	13428086.45	991.42	BM	SET RR SPK E SIDE PP 45 FT WEST OF CL 35 FT NORTH OF 180TH ST	543	9163480.59	13427758.23	1110.37	BM	FD IHC BM ON IN HDWL
507	9131298.93	13428227.31	1013.60	BM	CUT X ON ROW RAIL 48 FT EAST OF CL SOUTH SIDE OF FIELD ENT	544	9164747.64	13427767.74	1107.38	BM	FD IHC BM ON IN HDWL 60 FT NORTH OF FIELD ENT
508	9131931.03	13428151.38	1008.81	BM	SET RR SPK SE SIDE PP 51 FT WEST OF CL	545	9166298.36	13427681.72	1116.18	BM	FD RR SPK E SIDE PP 65 FT WEST OF CL
509	9132848.53	13428185.66	1020.72	BM	FD RR SPK E SIDE PP 51 FT WEST OF CL	546	9167199.65	13427699.85	1143.95	BM	CUT X ON ROW RAIL 50 FT WEST OF CL 50 FT NORTH OF 110TH ST CL
510	9133536.88	13428198.69	1025.00	BM	SET RR SPK E SIDE PP 42 FT WEST OF CL	547	9167834.12	13427813.87	1155.36	BM	CUT X ON ROW RAIL 49 FT EAST OF CL 9 FT SOUTH OF PP
511	9134578.81	13427595.87	1038.06	BM	CUT X ON ROW RAIL 59 FT WEST OF CL 57 FT SE OF FARM ENT	548	9169153.50	13427875.31	1151.51	BM	SET RR SPK W SIDE PP 46 FT EAST OF CL 185 FT SOUTH OF FIELD ENT
512	9135381.15	13427053.04	1013.40	BM	CUT X ON ROW RAIL 60 FT WEST OF CL NEAR CORNER POST	549	9169829.91	13427809.79	1146.65	BM	CUT X ON ROW RAIL 53 FT WEST OF CL 31 FT SOUTH OF PIPE
513	9137074.28	13427109.24	1060.21	BM	SET RR SPK W SIDE PP 52 FT EAST OF CL 200 FT NORTH OF FIELD ENT	550	9170893.14	13427958.47	1161.97	BM	SET RR SPK W SIDE PP 43 FT EAST OF CL 30 FT NORTH OF FIELD ENT
514	9138093.51	13427158.50	1058.74	BM	CUT X ON ROW RAIL 70 EAST OF CL 45 FT NORTH OF 165TH ST CL	551	9171558.18	13427859.82	1166.25	BM	SET RR SPK E SIDE PP 68 FT WEST OF CL
515	9139403.13	13427194.82	1025.92	BM	SET RR SPK W SIDE PP 68 FT EAST OF CL 18 FT NORTH OF FIELD ENT						
516	9140716.19	13427232.57	1017.22	BM	FD RR SPKW SIDE PP 68 FT EAST OF CL						
517	9142038.67	13427154.53	1019.07	BM	CUT X ON ROW RAIL 41 FT WEST OF CL						
518	9142692.99	13427222.81	1018.71	BM	FD IHC BM ON INHDWL EAST SIDE						
519	9143804.03	13427136.15	1034.70	BM	SET RR SPK E SIDE PP 83 FT WEST OF CL 115 FT NORTH OF PIPE						
520	9144319.69	13427139.48	1040.88	BM	FD RR SPK E SIDE PP 86 FT WEST OF CL 175 FT NORTH OF PIPE						
521	9145397.75	13427149.63	1049.69	BM	FD RR SPK E SIDE PP 91 FT WEST OF CL 175 FT NORTH OF RES ENT						
522	9145972.96	13427158.95	1055.54	BM	SET RR SPK E SIDE PP 89 FT WEST OF CL 64 FT SOUTH OF 150 ST CL						
523	9146583.33	13427219.26	1063.36	BM	FD RR SPK E SIDE PP 37 FT WEST OF CL AT FARM ENT						
524	9147863.97	13427235.09	1071.92	BM	SET RR SPK E SIDE PP 38 FT WEST OF CL 55 FT SOUTH OF FARM ENT						
525	9148696.26	13427351.26	1057.73	BM	CUT X ON ROW RAIL 60 FT EAST OF CL AT CORNER OF CROPFIELD						
526	9150017.75	13427262.76	1048.97	BM	CUT X ON ROW RAIL 60 FT WEST OF CL 52 FT NORTH OF FIELD ENT						
527	9150953.48	13427403.68	1077.07	BM	CUT X ON ROW RAIL 59 FT EAST OF CL 18 FT SOUTH OF FARM ENT						
528	9151347.00	13427415.94	1065.73	BM	CUT X ON ROW RAIL 60 FT EAST OF CL AT 140TH ST INTERSECTION						
529	9152770.85	13427336.24	1066.14	BM	SET RR SPK E SIDE PP 61 FT WEST OF CL 20 FT SOUTH OF PIPE						
530	9152786.49	13427424.88	1069.31	BM	FD IHC BM ON INHDWL EAST SIDE						
531	9153991.57	13427491.43	1096.47	BM	CUT X ON ROW RAIL 59 FT EAST OF CL 135 FT NORTH OF FIELD ENT						
532	9154427.31	13427386.57	1105.55	BM	SET RR SPK E SIDE PP 59 FT WEST OF CL 118 SOUTH OF PIPE						
533	9155933.32	13427543.17	1112.71	BM	SET RR SPK W SIDE PP 58 FT EAST OF CL 10 FT SOUTH OF PIPE						
534	9156600.53	13427447.03	1109.06	BM	CUT X ON ROW RAIL 63 FT WEST OF CL 30 FT SOUTH OF 130TH ST CL						
535	9157081.97	13427558.75	1093.01	BM	FD IHC BM ON INHDWL EAST SIDE						



DELAWARE TWP.
T-89N R-5W
SEC. 17

SW 1/4 SW 1/4
SEC. 17

NW 1/4 SW 1/4
SEC. 17

SE 1/4 SW 1/4
SEC. 17

NE 1/4 SW 1/4
SEC. 17

NICHOLAS R McGRAW

CECIL E OLSON &
CHARITY M OLSON

DAVID J FELTON &
NATALIE C FELTON

DANIEL R RIES &
JANEL M RIES

KENNETH & KAREN RIES, LLC

12"x76' C.M.P.

18"x40' C.M.P.

15"x36' C.M.P.

24"x30'
C.M.P.

Proposed 18"
Uncl. Entr. Pipe

Sta. 61+71.95
Twin 4'x3'x46.1' RCB
D.A.=161.0 A-R
(Remove)

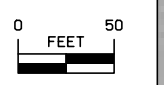
Sta. 1061+70.00
Install TWIN 54"x80' LCP
F.L. = Lt. 946.80
Rt. 947.75

STA. 1051+00.00
END RESURFACING
BEGIN PAVING

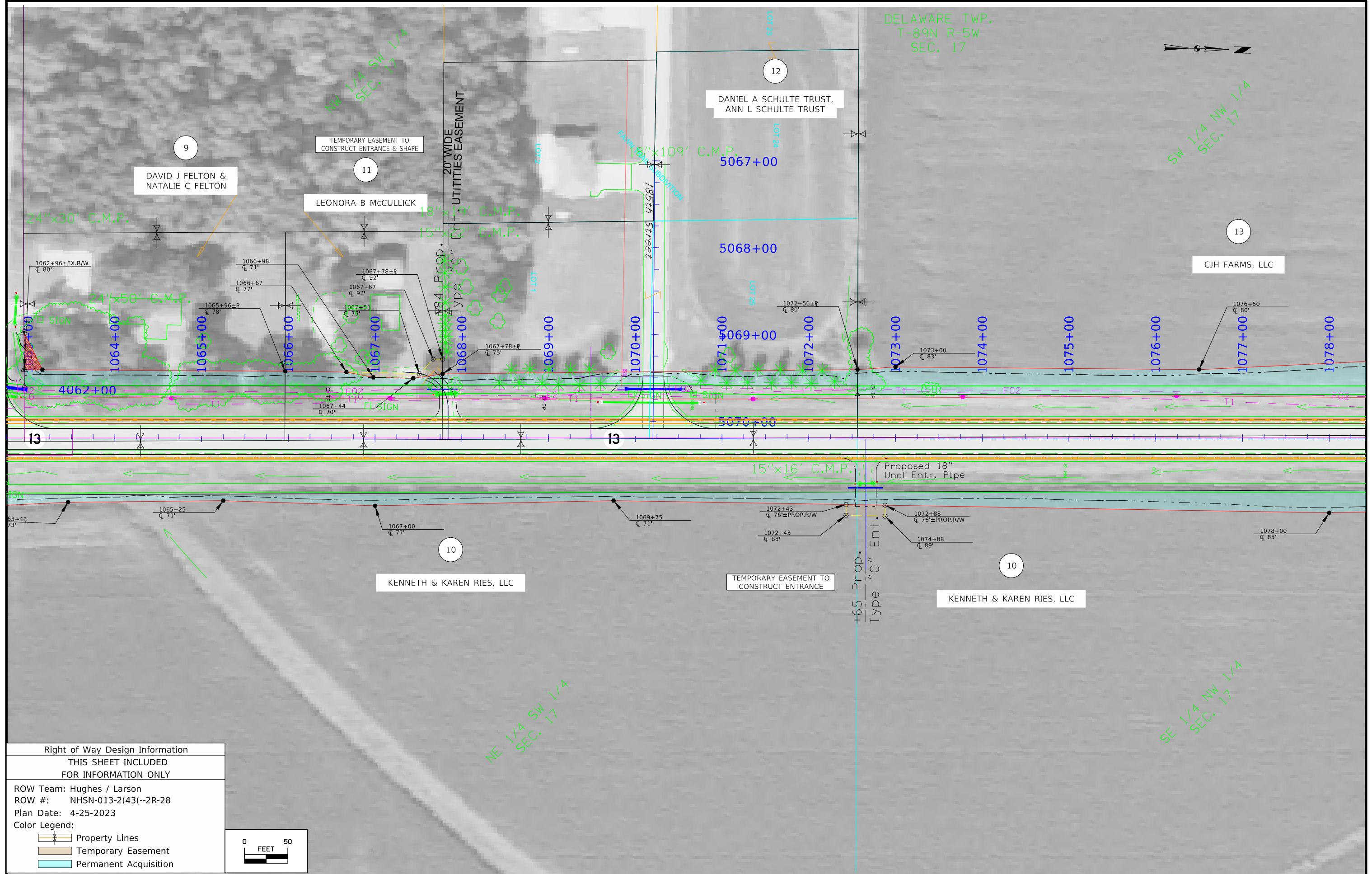
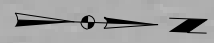
TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

+17 Prop.
Type "C" Ent.

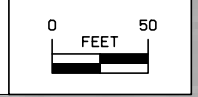
Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	4-25-2023
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



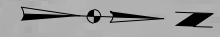
DELAWARE TWP.
T-89N R-5W
SEC. 17



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 4-25-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

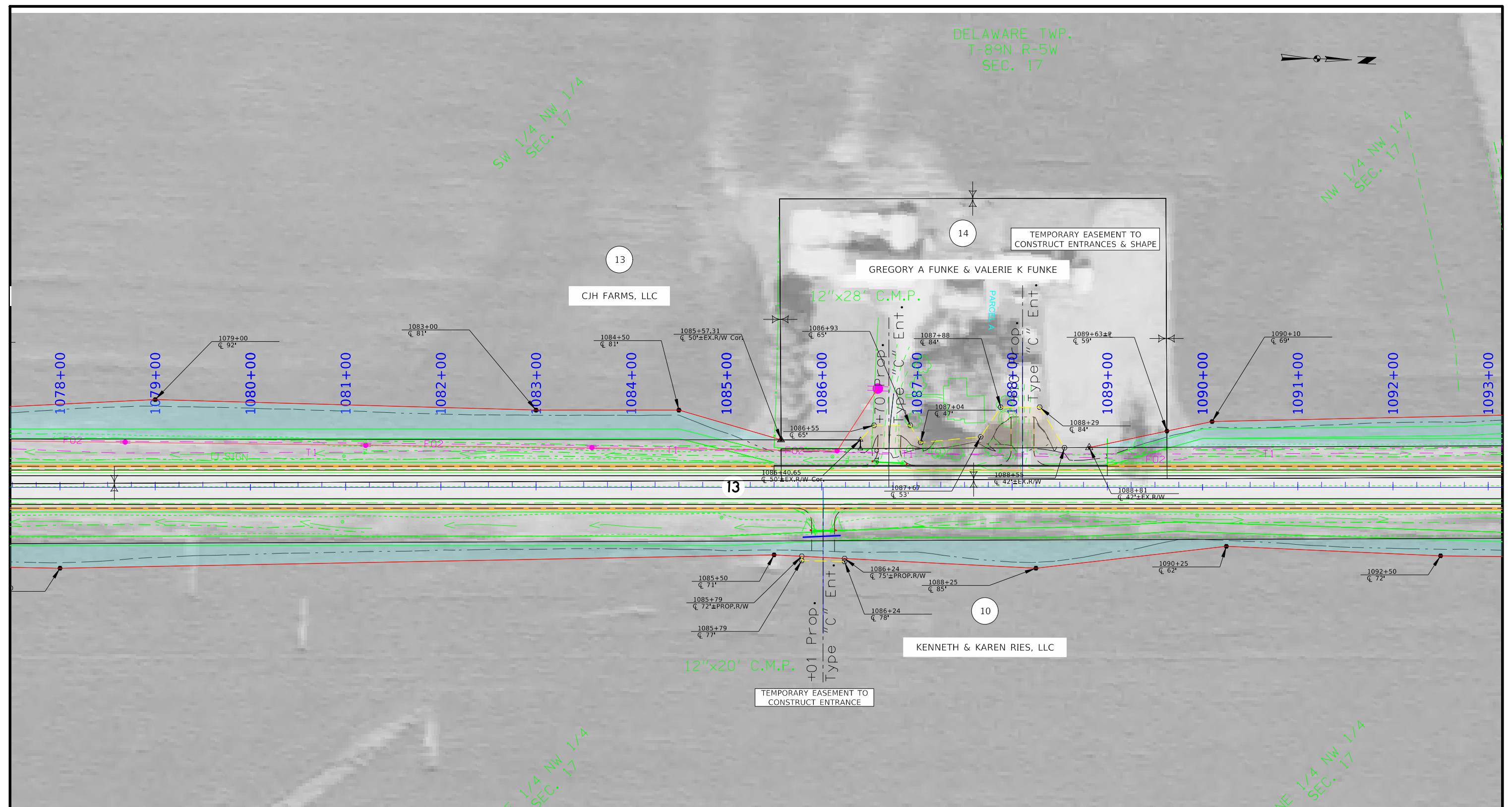


DELAWARE TWP.
T-89N R-5W
SEC. 17

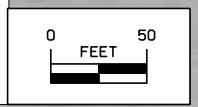


SW 1/4 NW 1/4
SEC. 17

NW 1/4 NW 1/4
SEC. 17



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	10-26-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.
T-89N R-5W
SEC. 17

DELAWARE TWP.
T-89N R-5W
SEC. 8

SW 1/4 SW 1/4
SEC. 8

NW 1/4 NW 1/4
SEC. 17

13

CJH FARMS, LLC

15

JOHN G HOFFMANN & LORIE N HOFFMANN

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

1093+00

1094+00

1095+00

1096+00

1097+00

1098+00

1099+00

1100+00

1101+00

1102+00

1103+00

1104+00

1105+00

1106+00

1107+00

6096+00

6097+00

6098+00

6099+00

6100+00

6101+00

Sta. 93+74.36
2'x2'x43.6' RCB
W/ 30"x6' Conc.
Pipe Inlet Ext.
D.A.=10.0 A-R
(Remove)

10

KENNETH & KAREN RIES, LLC

Sta. 1093+75.00
Install 30"x88' RCP
F.L. = Lt. 981.50
Rt. 984.38

NE 1/4 NW 1/4
SEC. 17

Sta. 98+73.20
2'x2'x41.9' RCB
W/ 24"x6' Conc.
Pipe Inlet Ext.
D.A.=13.0 A-R
(Remove)

+22 Prop.
Type "C" Ent.

+22 Exist.
Type "C" Ent.
(UAC)

16

RL KLEIN, LLC.

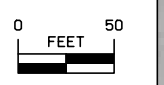
15"x40' C.M.P.

SE 1/4 SW 1/4
SEC. 8

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 5-1-2023

Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition



Sta. 1098+75.00
Install 30"x80' LCP
F.L. = Lt. 987.30
Rt. 988.50

DELAWARE TWP.
T-89N R-5W
SEC. 8

19
ANTHONY C
BROGHAMMER TRUST

15
JOHN G HOFFMANN & LORIE N HOFFMANN

17
ROBERT G NAEVE &
KARY L NAEVE

18
DAVID A BROGHAMMER

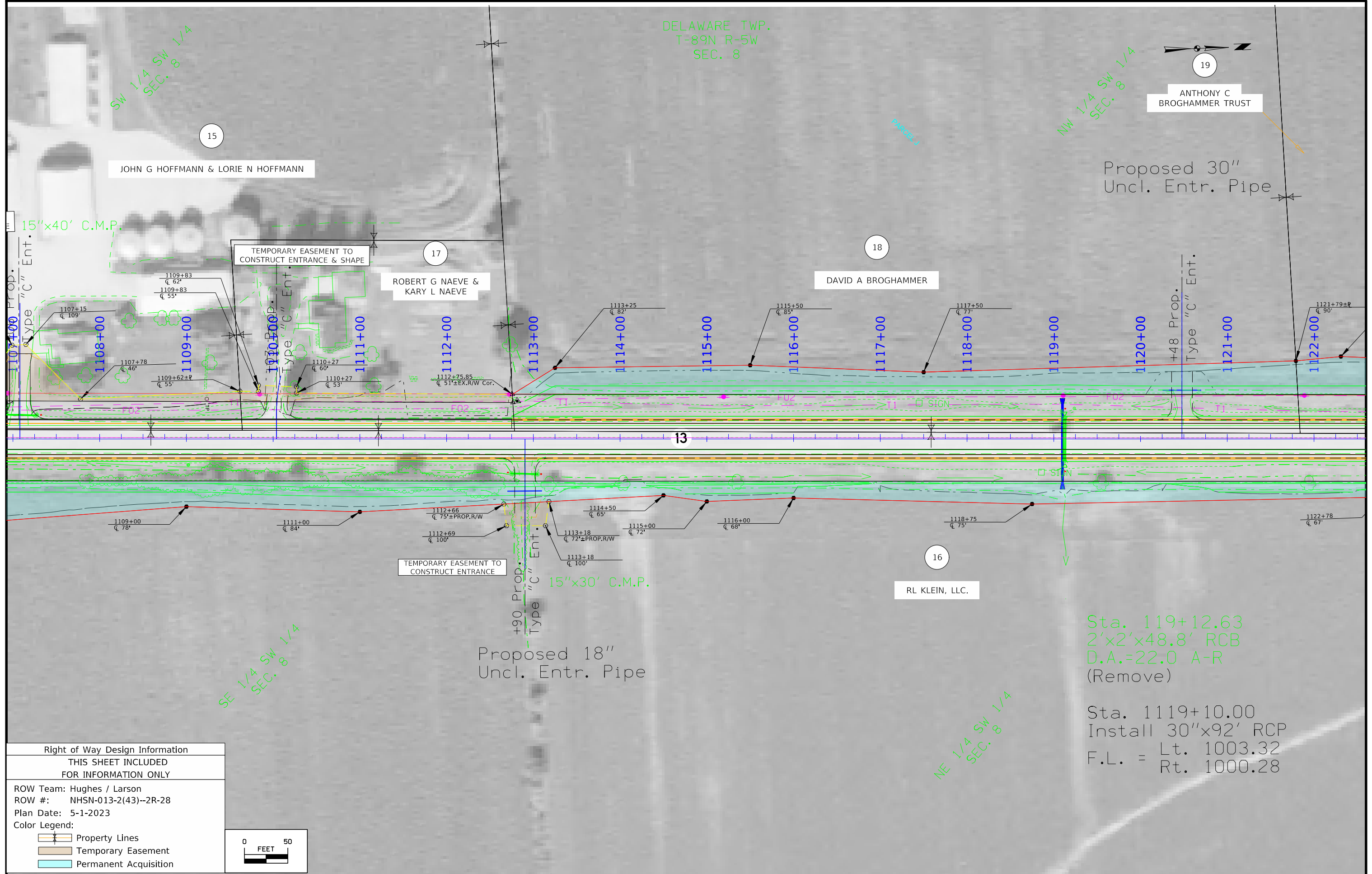
16
RL KLEIN, LLC.

Proposed 30"
Uncl. Entr. Pipe

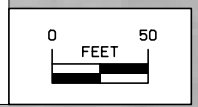
Proposed 18"
Uncl. Entr. Pipe

Sta. 119+12.63
2'x2'x48.8' RCB
D.A.=22.0 A-R
(Remove)

Sta. 1119+10.00
Install 30"x92' RCP
F.L. = Lt. 1003.32
Rt. 1000.28



Right of Way Design Information	
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ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 5-1-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.
T-89N R-5W
SEC. 8

NW 1/4 SW 1/4
SEC. 8

SW 1/4 NW 1/4
SEC. 8

(Remove)

Sta. 1135+90.00
Install 30"x104' RCP
Lt. 1019.20
F.L. = Rt. 1027.05

Sta. 136+00.50
2'x2'x49.5' RCB
W/ 30"x6' Conc.
Pipe Outlet Ext.
D.A.=10.0 A-R

ANTHONY C BROGHAMMER TRUST

RL KLEIN, LLC.

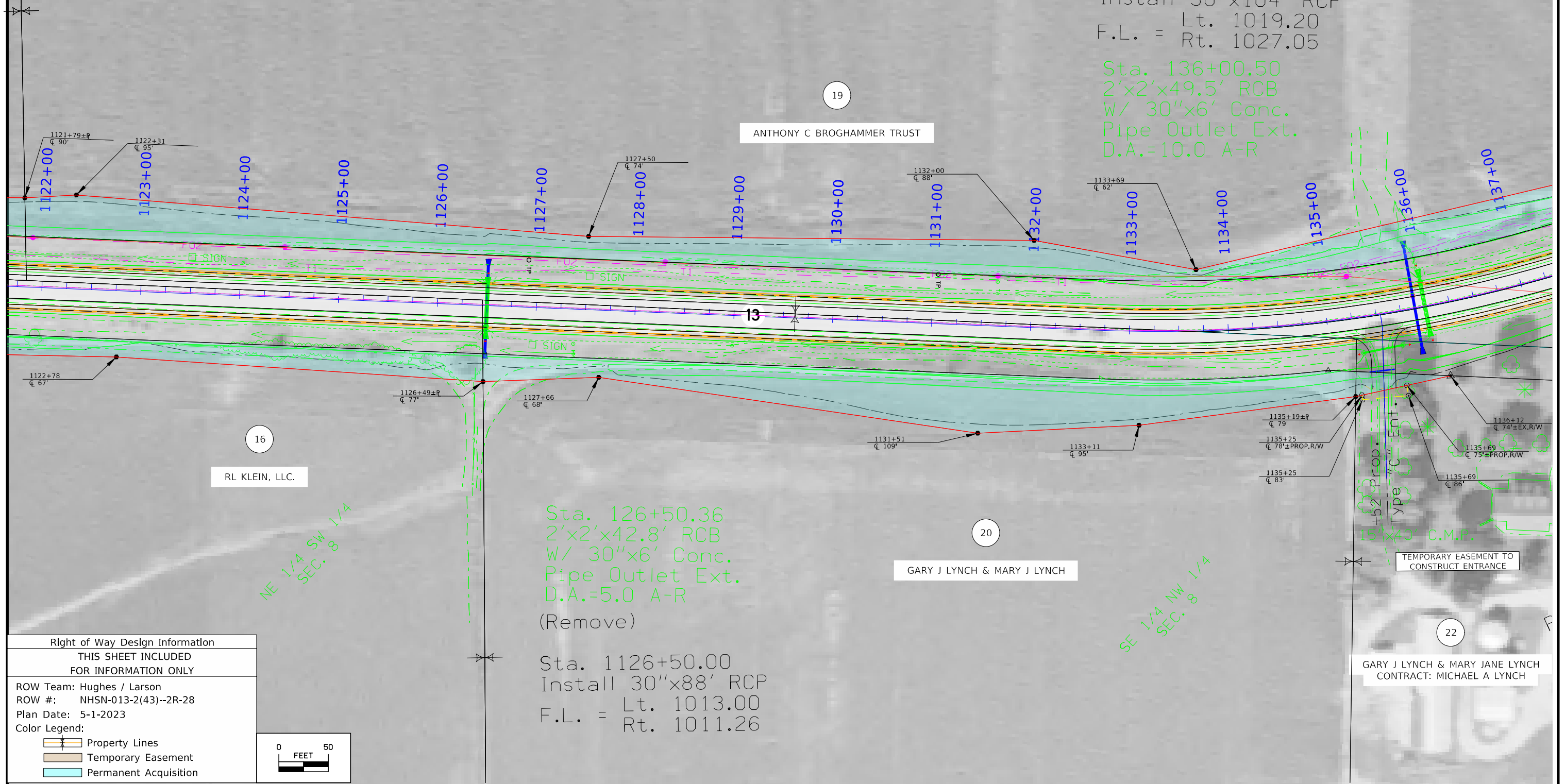
GARY J LYNCH & MARY J LYNCH

GARY J LYNCH & MARY JANE LYNCH
CONTRACT: MICHAEL A LYNCH

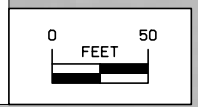
Sta. 126+50.36
2'x2'x42.8' RCB
W/ 30"x6' Conc.
Pipe Outlet Ext.
D.A.=5.0 A-R

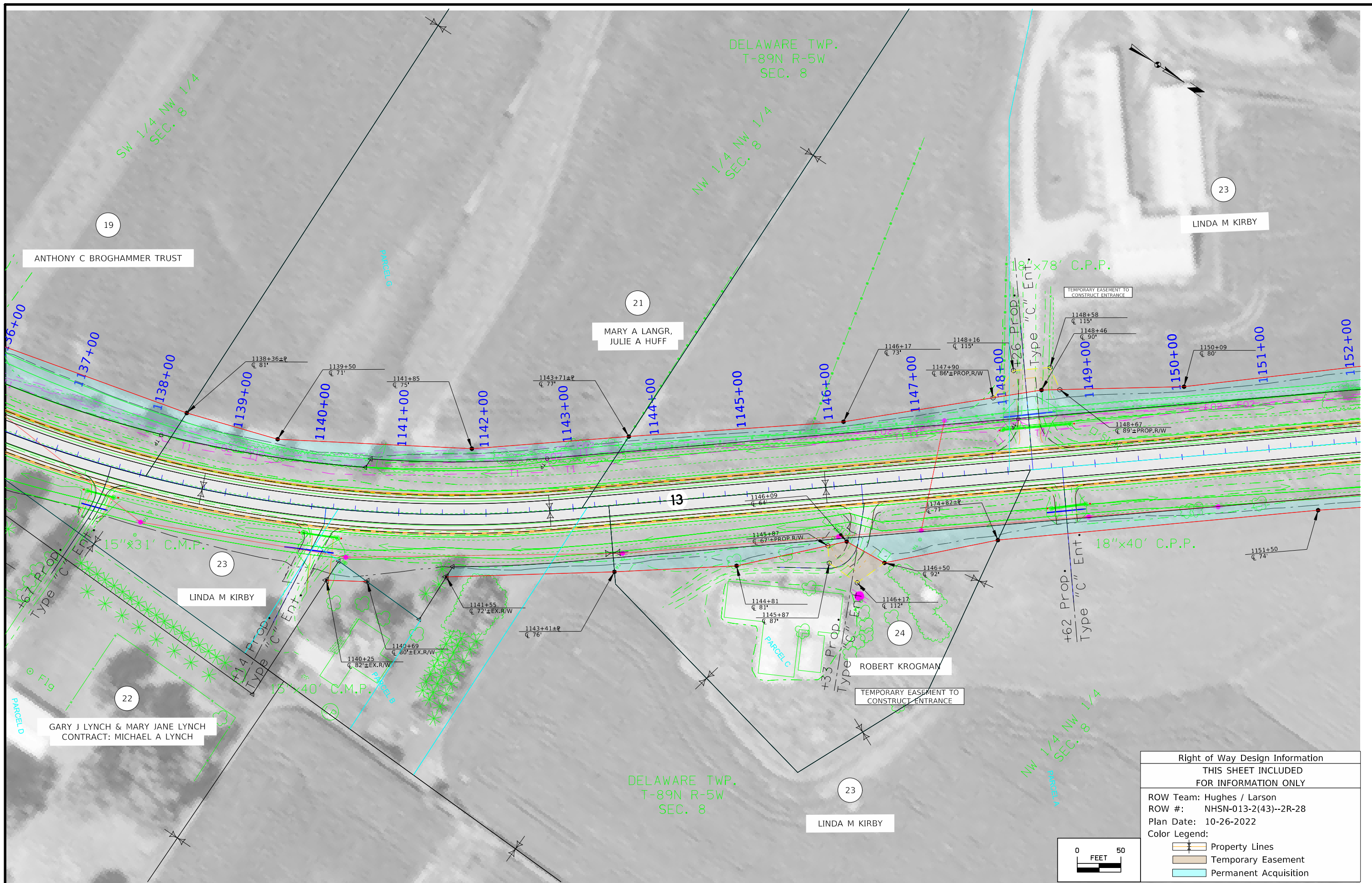
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Sta. 1126+50.00
Install 30"x88' RCP
Lt. 1013.00
F.L. = Rt. 1011.26

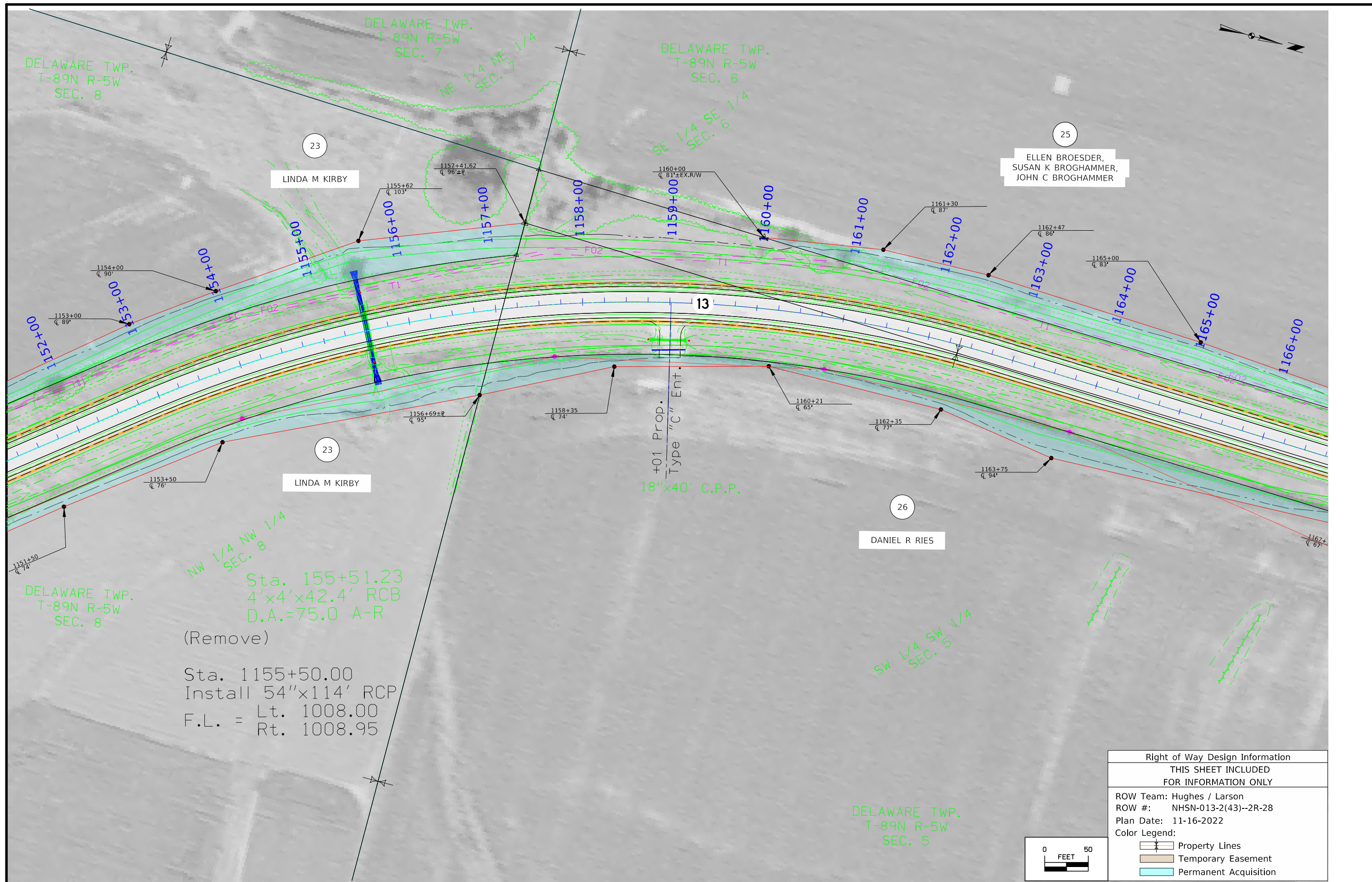


Right of Way Design Information	
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ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 5-1-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



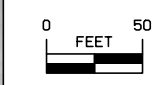


Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 10-26-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

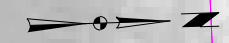


Sta. 155+51.23
 4'x4'x42.4' RCB
 D.A.=75.0 A-R
 (Remove)
 Sta. 1155+50.00
 Install 54"x114' RCP
 F.L. = Lt. 1008.00
 Rt. 1008.95

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.
T-89N R-5W
SEC. 6



SE 1/4 SE 1/4
SEC. 6

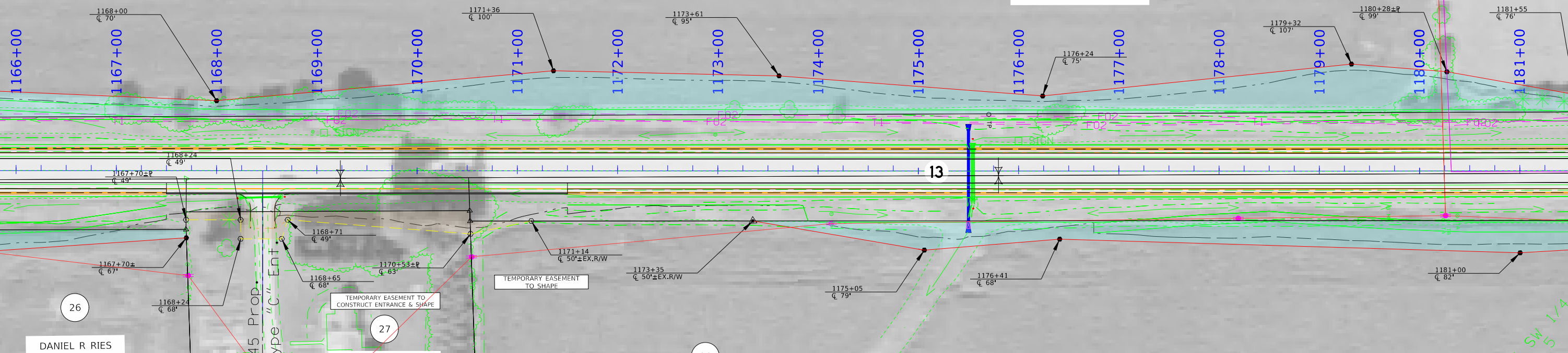
NE 1/4 SE 1/4
SEC. 6

29

ROGER D &
CONNIE GROTH

25

ELLEN BROESDER,
SUSAN K BROGHAMMER,
JOHN C BROGHAMMER



26

DANIEL R RIES

27

KENNETH L JR, &
WANDA A LINDERWELL

28

GILBERT A & MAUREEN E HOFFMANN

Sta. 175+54.62
2'x2'x49.8' RCB
w/ Conc. Inlet Apron
D.A.=9.0 A-R
(Remove)

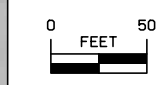
Sta. 1175+50.00
Install 30"x96' RCP
F.L. = Lt. 1060.47
Rt. 1056.10

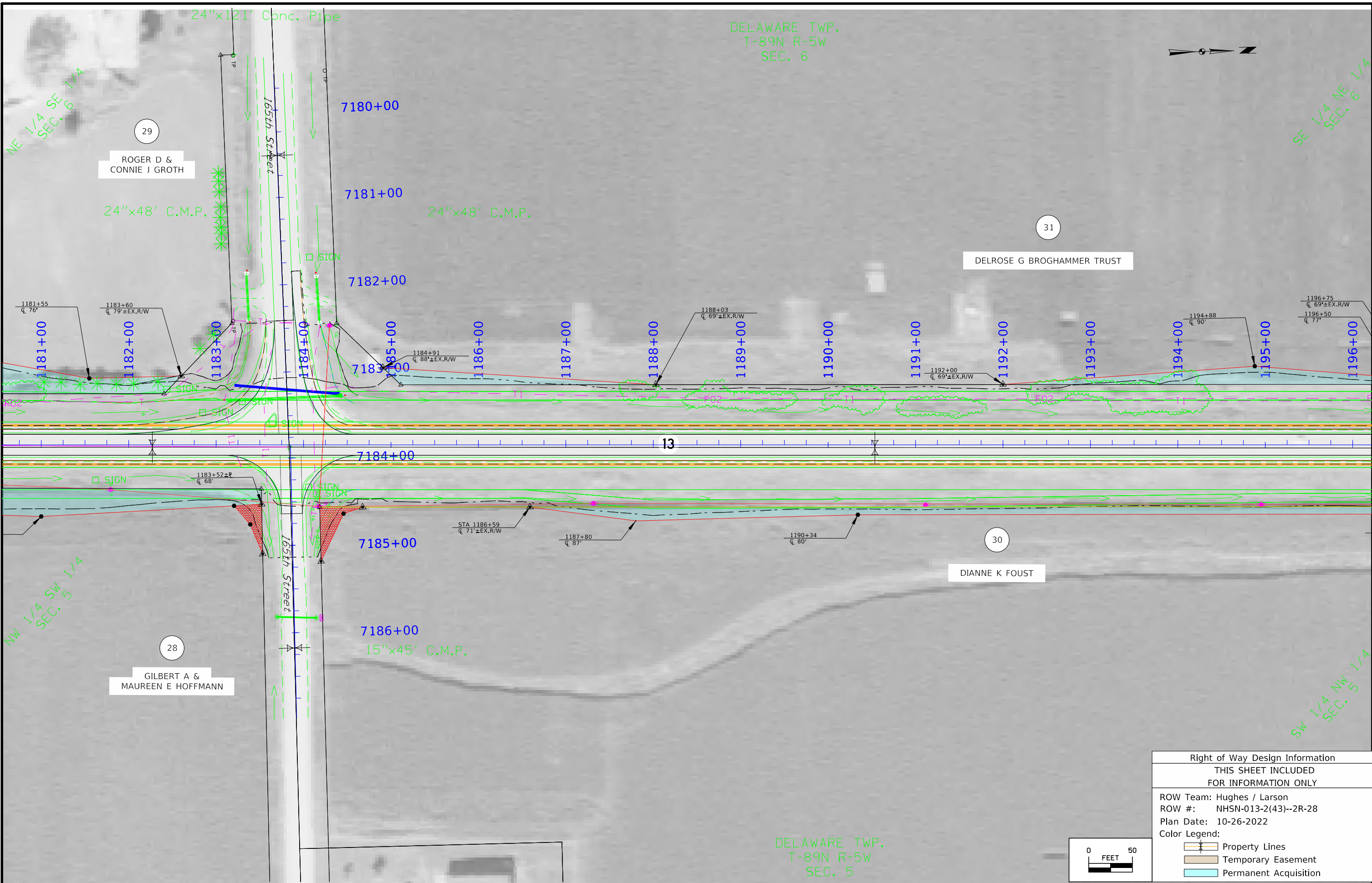
SW 1/4 SW 1/4
SEC. 5

NW 1/4 SW 1/4
SEC. 5

DELAWARE TWP.
T-89N R-5W
SEC. 5

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-18-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

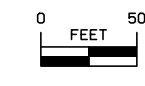




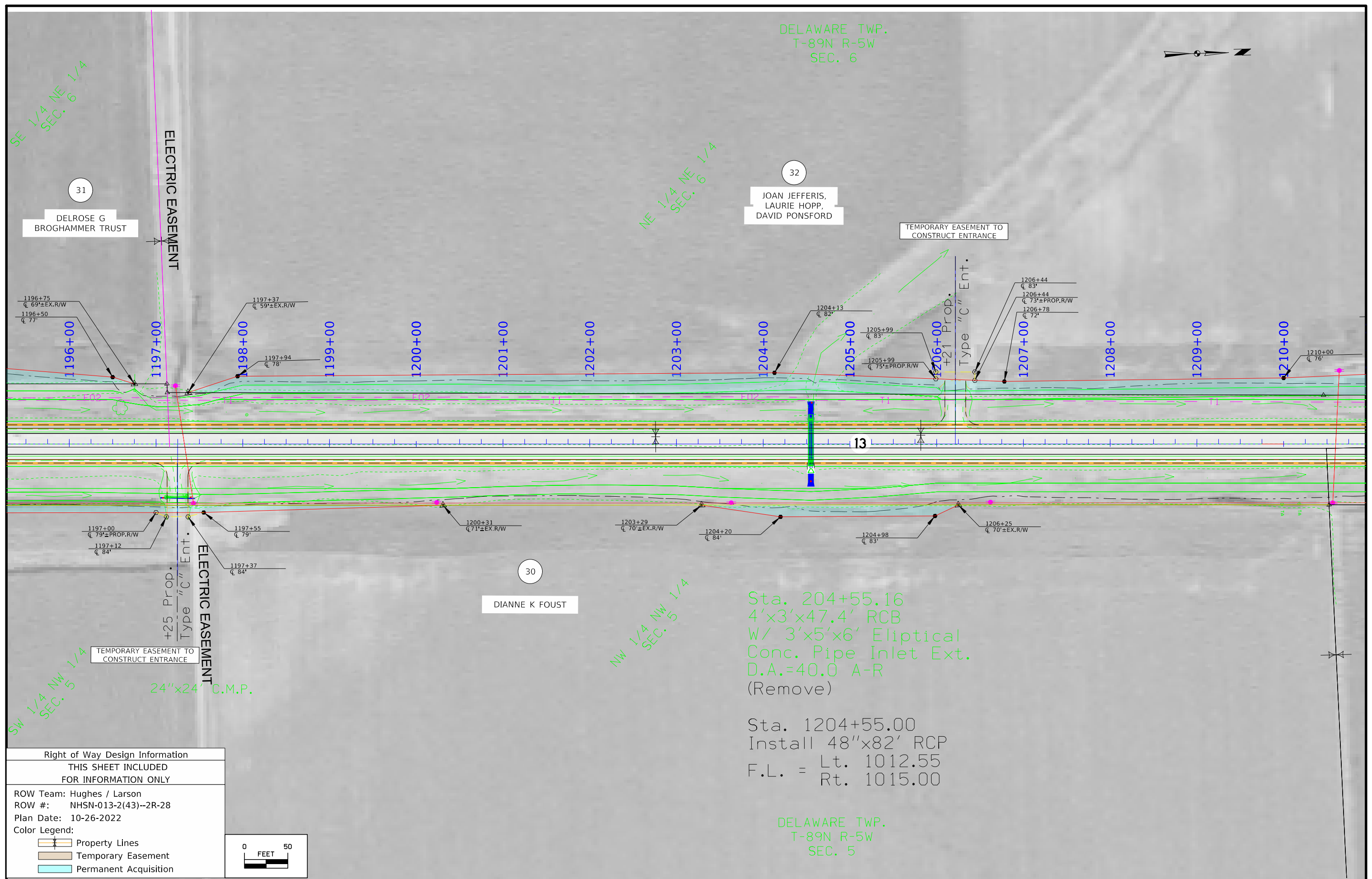
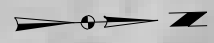
DELAWARE TWP.
T-89N R-5W
SEC. 6

DELAWARE TWP.
T-89N R-5W
SEC. 5

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 10-26-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.
T-89N R-5W
SEC. 6



32
JOAN JEFFERIS,
LAURIE HOPP,
DAVID PONSFORD

31
DELROSE G
BROGHAMMER TRUST

30
DIANNE K FOUST

Sta. 204+55.16
4'x3'x47.4' RCB
W/ 3'x5'x6' Elliptical
Conc. Pipe Inlet Ext.
D.A.=40.0 A-R
(Remove)

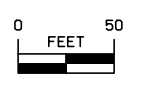
Sta. 1204+55.00
Install 48"x82' RCP
F.L. = Lt. 1012.55
Rt. 1015.00

DELAWARE TWP.
T-89N R-5W
SEC. 5

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 10-26-2022

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition



32
 JOAN JEFFERIS,
 LAURIE HOPP,
 DAVID PONSFORD

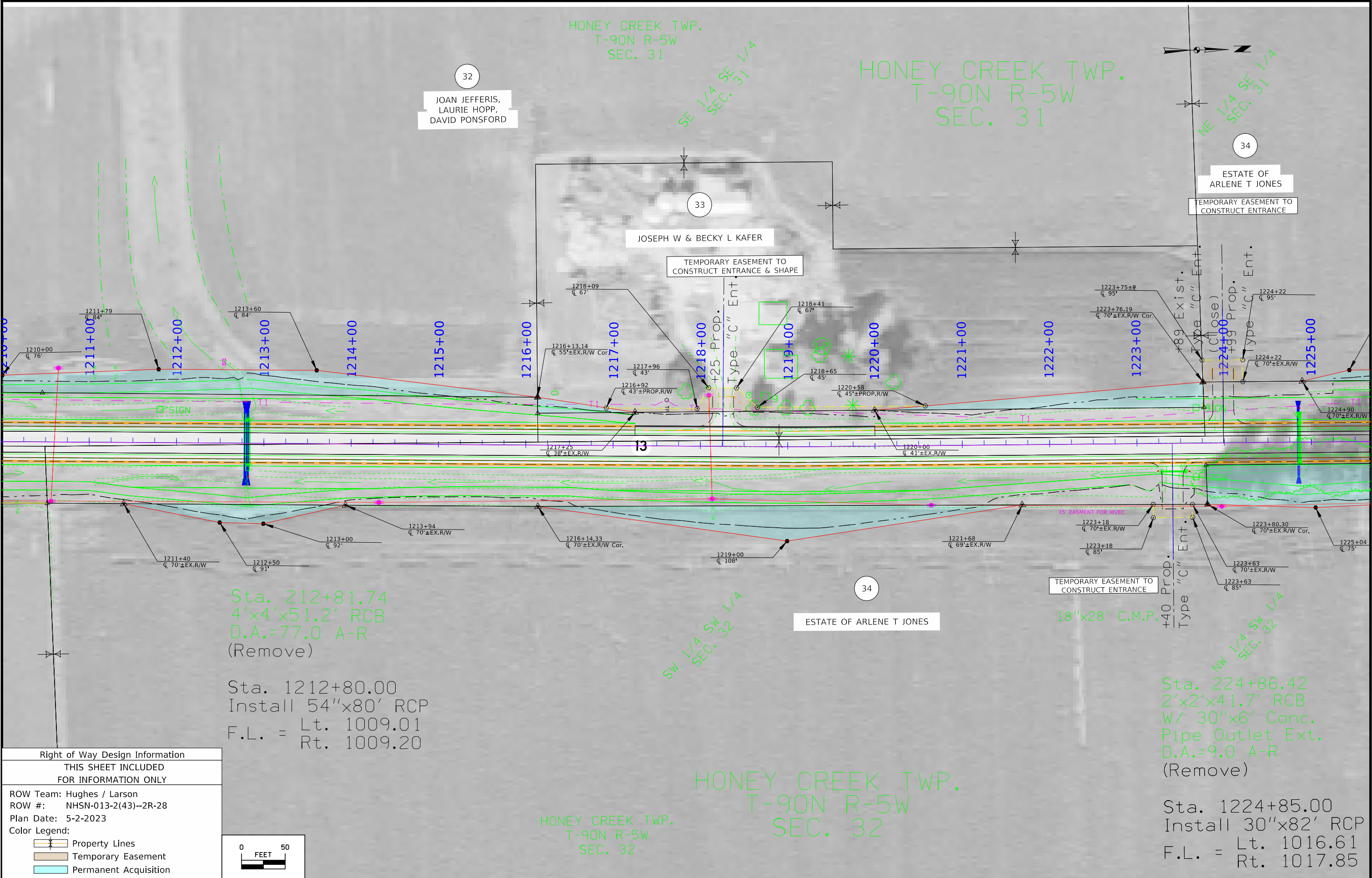
HONEY CREEK TWP.
 T-90N R-5W
 SEC. 31

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 31

34
 ESTATE OF
 ARLENE T JONES
 TEMPORARY EASEMENT TO
 CONSTRUCT ENTRANCE

JOSEPH W & BECKY L KAFER

TEMPORARY EASEMENT TO
 CONSTRUCT ENTRANCE & SHAPE



Sta. 212+81.74
 4'x4'x51.2' RCB
 D.A.=77.0 A-R
 (Remove)

Sta. 1212+80.00
 Install 54"x80' RCP
 F.L. = Lt. 1009.01
 Rt. 1009.20

TEMPORARY EASEMENT TO
 CONSTRUCT ENTRANCE
 18"x28' C.M.P.

Sta. 224+86.42
 2'x2'x41.7' RCB
 W/ 30"x6' Conc.
 Pipe Outlet Ext.
 D.A.=9.0 A-R
 (Remove)

Sta. 1224+85.00
 Install 30"x82' RCP
 F.L. = Lt. 1016.61
 Rt. 1017.85

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 32

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 32

Right of Way Design Information
 THIS SHEET INCLUDED
 FOR INFORMATION ONLY

ROW Team: Hughes / Larson
 ROW #: NHSN-013-2(43)--2R-28
 Plan Date: 5-2-2023

- Color Legend:
- Property Lines
 - Temporary Easement
 - Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 31

SE 1/4 NE 1/4
SEC. 31

NE 1/4 SE 1/4
SEC. 31

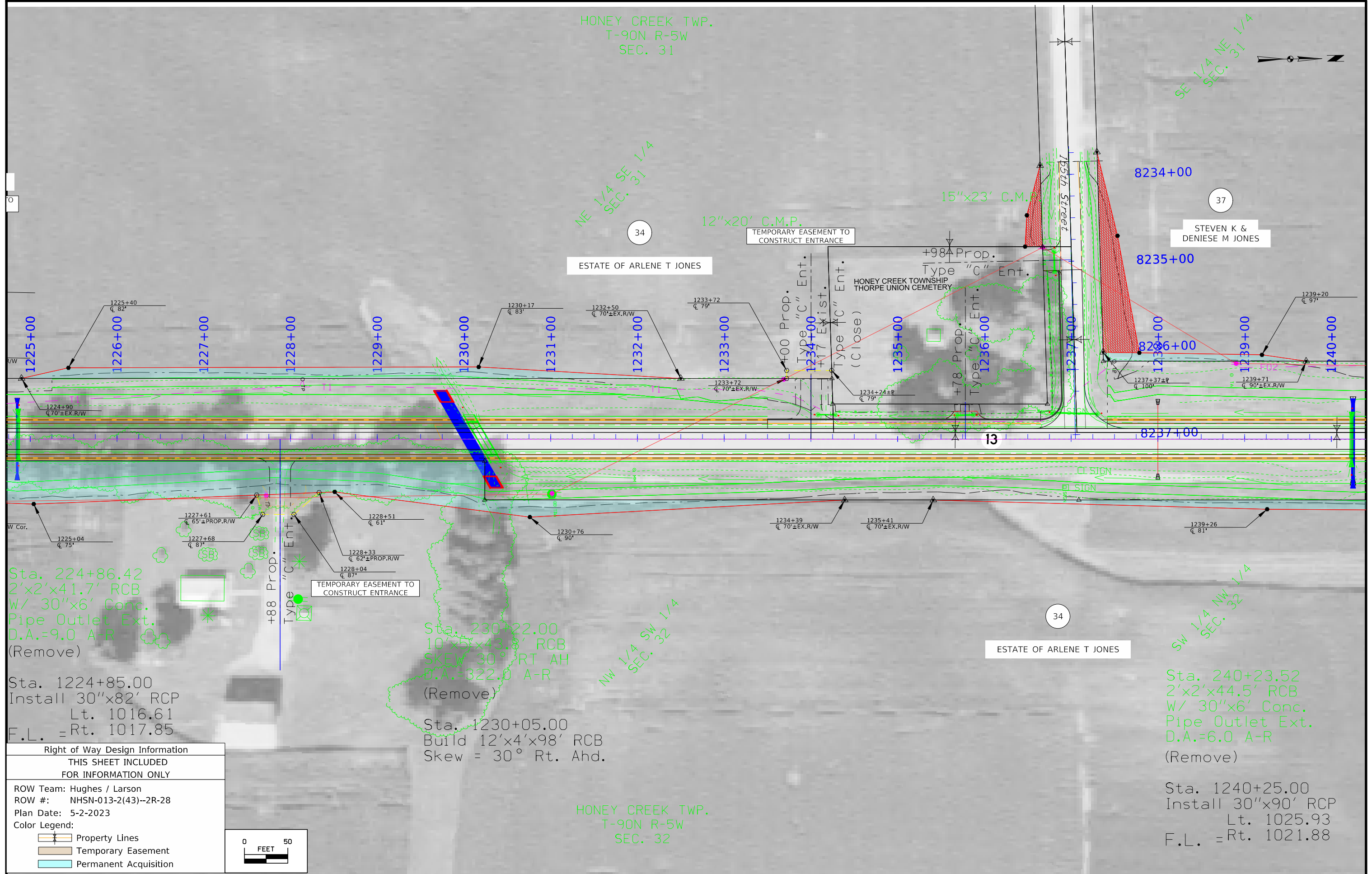
12"x20' C.M.P.

15"x23' C.M.P.

ESTATE OF ARLENE T JONES

STEVEN K &
DENIESE M JONES

HONEY CREEK TOWNSHIP
THORPE UNION CEMETERY



Sta. 224+86.42
2'x2'x41.7' RCB
w/ 30"x6' Conc.
Pipe Outlet Ext.
D.A.=9.0 A-R
(Remove)

Sta. 1224+85.00
Install 30"x82' RCP
Lt. 1016.61
F.L. =Rt. 1017.85

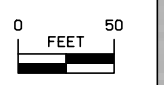
Sta. 230+22.00
10'x5'x43.8' RCB
SKEW 30° RT AH
D.A.=322.0 A-R
(Remove)

Sta. 1230+05.00
Build 12'x4'x98' RCB
Skew = 30° Rt. Ahd.

Sta. 240+23.52
2'x2'x44.5' RCB
w/ 30"x6' Conc.
Pipe Outlet Ext.
D.A.=6.0 A-R
(Remove)

Sta. 1240+25.00
Install 30"x90' RCP
Lt. 1025.93
F.L. =Rt. 1021.88

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 5-2-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 31

Sta. 254+02.25
24"x73' Conc. Pipe
D.A.=10.0 A-R
(Remove)

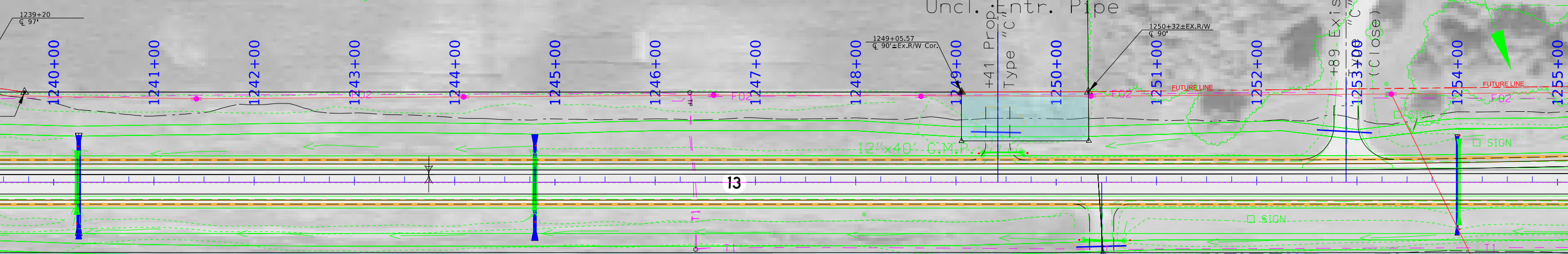
Sta. 1254+00.00
Install 24"x86' RCP
F.L. = Lt. 1041.90
Rt. 1040.25

COUNTY DOES NOT WANT TO MAINTAIN THIS ROAD SIDE PARK
STATE IS GOING TO ABANDON SOME OF THIS EASEMENT
NEED TO KNOW WHAT TO RETAIN FOR THIS PROJECT

STEVEN K & DENIESE M JONES

STATE OF IOWA

Proposed 18"
Uncl. Entr. Pipe



Sta. 240+23.52
2'x2'x44.5' RCB
W/ 30"x6' Conc.
Pipe Outlet Ext.
D.A.=6.0 A-R
(Remove)

Sta. 244+80.23
3'x2'x39.2' RCB
W/ 3'x2'x6' Elip. Conc.
Pipe Inlet & Outlet Ext.
D.A.=34.0 A-R
(Remove)

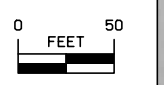
ESTATE OF ARLENE T JONES

Sta. 1240+25.00
Install 30"x90' RCP
F.L. = Lt. 1025.93
Rt. 1021.88

Sta. 1244+80.00
Install 36"x90' RCP
F.L. = Lt. 1032.60
Rt. 1028.30

Proposed 18"
Uncl. Entr. Pipe

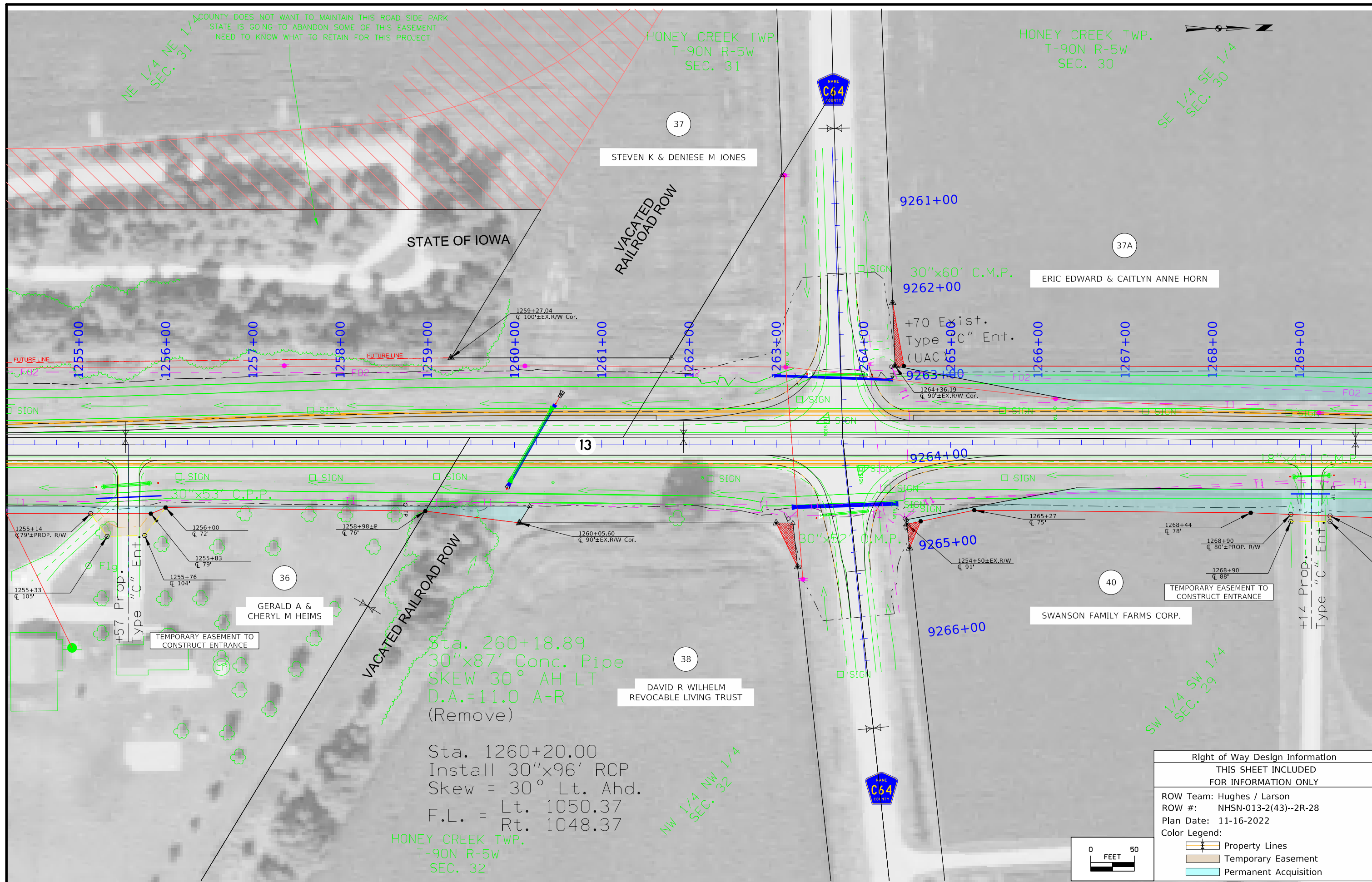
Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 5-2-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 32

NW 1/4 NW 1/4
SEC. 32

GERALD A & CHERYL M HEIMS



NE 1/4 NE 1/4 SEC. 31
 COUNTY DOES NOT WANT TO MAINTAIN THIS ROAD SIDE PARK
 STATE IS GOING TO ABANDON SOME OF THIS EASEMENT
 NEED TO KNOW WHAT TO RETAIN FOR THIS PROJECT

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 31

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 30

SE 1/4 SE 1/4
 SEC. 30

STEVEN K & DENIESE M JONES

ERIC EDWARD & CAITLYN ANNE HORN

GERALD A &
 CHERYL M HEIMS

DAVID R WILHELM
 REVOCABLE LIVING TRUST

SWANSON FAMILY FARMS CORP.

Sta. 260+18.89
 30"x87' Conc. Pipe
 SKEW 30° AH LT
 D.A.=11.0 A-R
 (Remove)

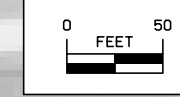
Sta. 1260+20.00
 Install 30"x96' RCP
 Skew = 30° Lt. Ahd.
 F.L. = Lt. 1050.37
 Rt. 1048.37

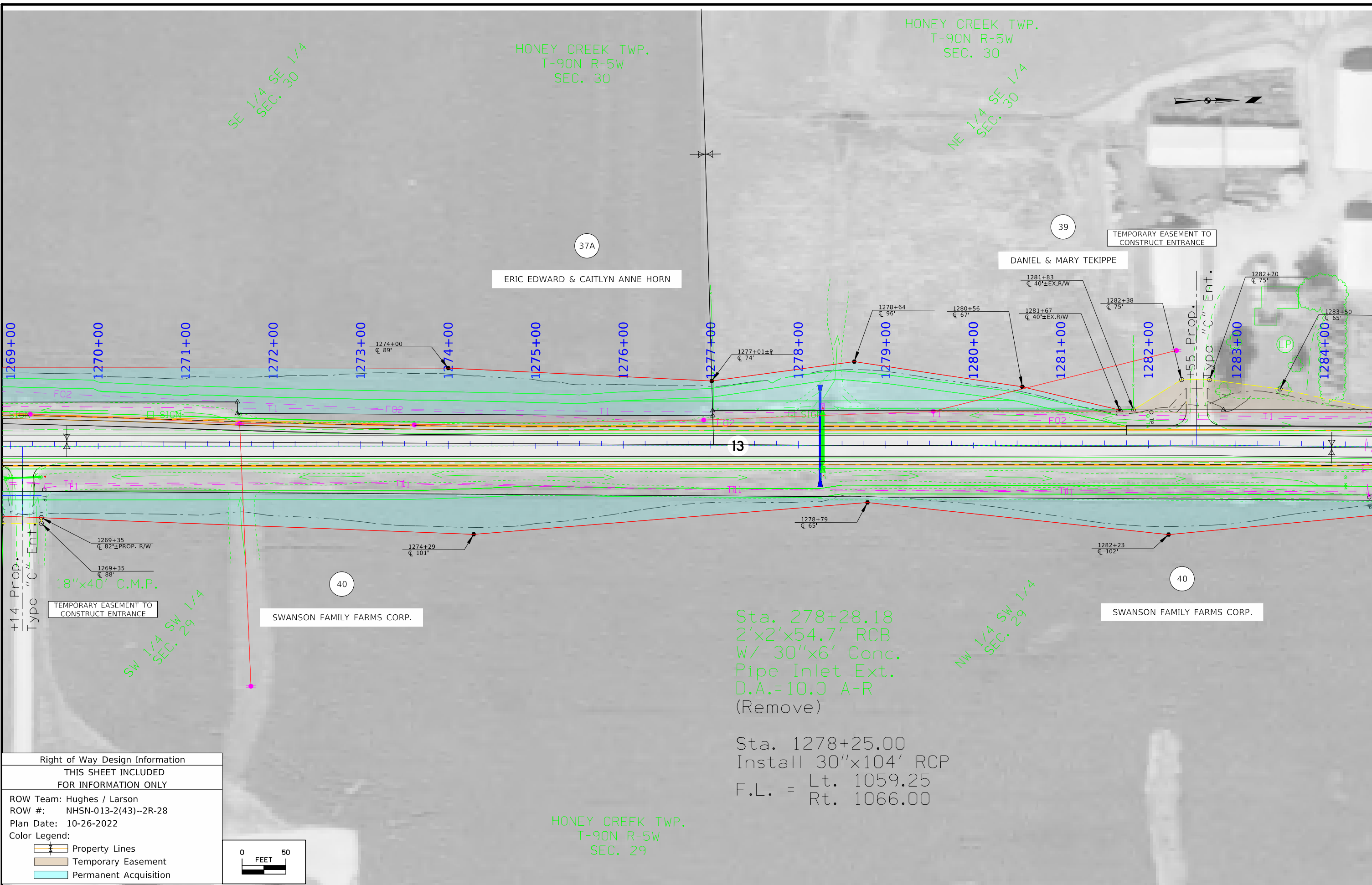
HONEY CREEK TWP.
 T-90N R-5W
 SEC. 32

Right of Way Design Information
 THIS SHEET INCLUDED
 FOR INFORMATION ONLY

ROW Team: Hughes / Larson
 ROW #: NHSN-013-2(43)--2R-28
 Plan Date: 11-16-2022

Color Legend:
 [Yellow] Property Lines
 [Light Blue] Temporary Easement
 [Light Green] Permanent Acquisition





HONEY CREEK TWP.
T-90N R-5W
SEC. 30

HONEY CREEK TWP.
T-90N R-5W
SEC. 30

SE 1/4 SE 1/4
SEC. 30

NE 1/4 SE 1/4
SEC. 30

37A

39

ERIC EDWARD & CAITLYN ANNE HORN

DANIEL & MARY TEKIPPE

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00 1283+00 1284+00

13

40

40

SWANSON FAMILY FARMS CORP.

SWANSON FAMILY FARMS CORP.

Sta. 278+28.18
2'x2'x54.7' RCB
W/ 30"x6' Conc.
Pipe Inlet Ext.
D.A.=10.0 A-R
(Remove)

Sta. 1278+25.00
Install 30"x104' RCP
F.L. = Lt. 1059.25
Rt. 1066.00

HONEY CREEK TWP.
T-90N R-5W
SEC. 29

SW 1/4 SW 1/4
SEC. 29

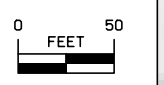
NW 1/4 SW 1/4
SEC. 29

+14 Prop.
Type "C" Ent.
1269+35
C 82'±PROP. R/W
1269+35
C 88'
18"x40' C.M.P.
TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

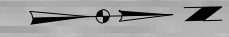
Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 10-26-2022

Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 30



NE 1/4 SE 1/4
SEC. 30

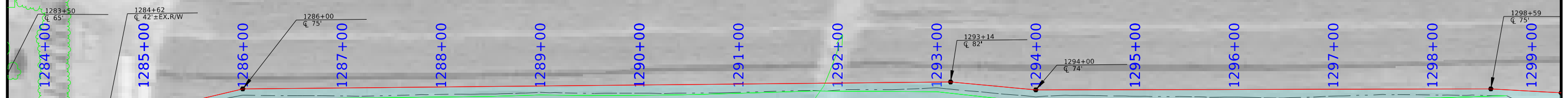
SE 1/4 NE 1/4
SEC. 30

39

DANIEL & MARY TEKIPPE

39

DANIEL & MARY TEKIPPE



13

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

NW 1/4 SW 1/4
SEC. 29

40

SWANSON FAMILY FARMS CORP.

41

STEVEN B & ROSE M SCHMOCK

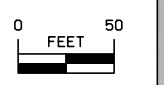
SW 1/4 NW 1/4
SEC. 29

Sta. 291+71.28
2'x2'x41.6' RCB
W/ 30"x6' Conc. Pipe
Inlet & Outlet Ext.
D.A.=17.0 A-R
(Remove)

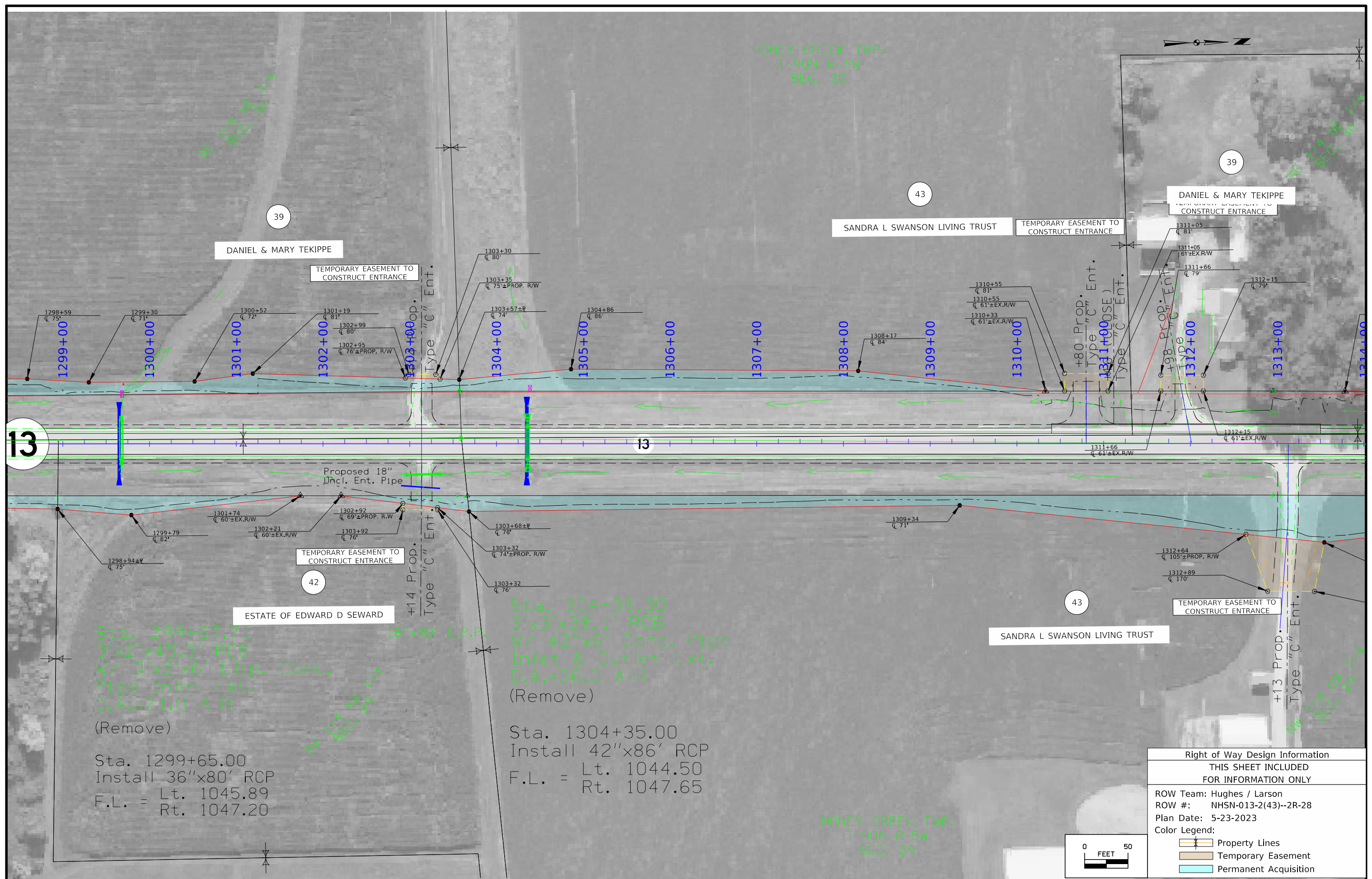
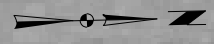
Sta. 1291+75.00
Install 30"x88' RCP
F.L. = Lt. 1049.00
Rt. 1052.00

HONEY CREEK TWP.
T-90N R-5W
SEC. 29

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 10-26-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 30



13

13

43

Sta. 299+67.71
3'x2'x45.3' RCB
W/ 3'x2'x6' Elip. Conc.
Pipe Inlet Ext.
D.A.=21.0 A-R
(Remove)

Sta. 1299+65.00
Install 36"x80' RCP
F.L. = Lt. 1045.89
Rt. 1047.20

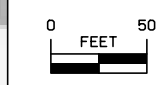
18"x40' C.P.P.

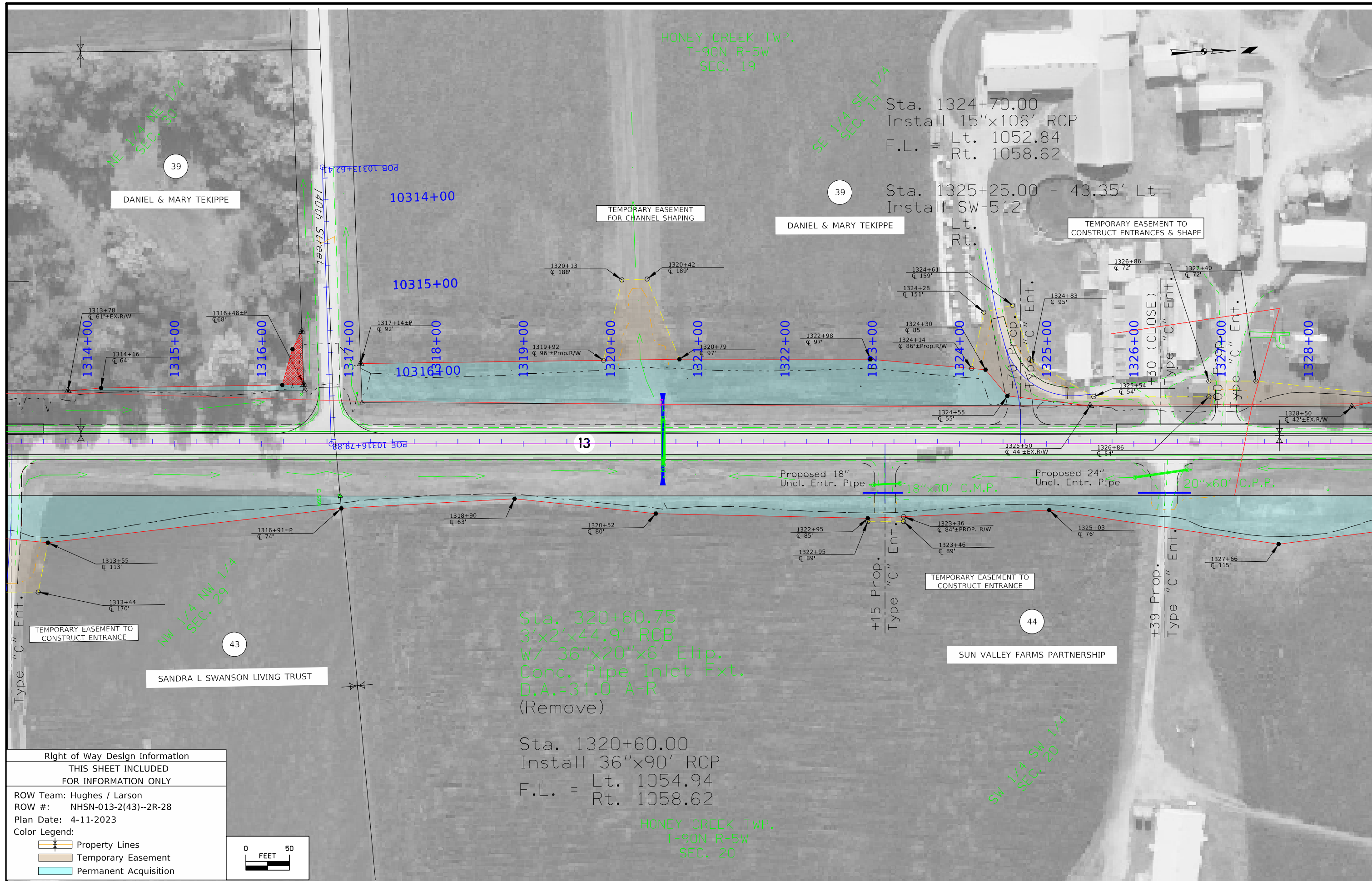
Sta. 304+36.30
3'x3'x38.1' RCB
W/ 42"x6' Conc. Pipe
Inlet & Outlet Ext.
D.A.=36.0 A-R
(Remove)

Sta. 1304+35.00
Install 42"x86' RCP
F.L. = Lt. 1044.50
Rt. 1047.65

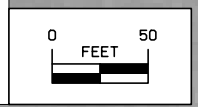
HONEY CREEK TWP.
T-90N R-5W
SEC. 29

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 5-23-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 4-11-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 19

Sta. 342+21.06
2'x2'x41.3' RCB
W/ 30"x6' Conc. Pipe
Inlet & Outlet Ext.
D.A.=12.0 A-R
(Remove)

Sta. 1342+20.00
Install 30'x94' RCP
Lt. 1084.31
F.L. = Rt. 1088.21

DANIEL & MARY TEKIPPE

DANIEL & MARY TEKIPPE

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

SE 1/4 SE 1/4
SEC. 19 1/4

NE 1/4 SE 1/4
SEC. 19 1/4

44
SUN VALLEY FARMS PARTNERSHIP

Sta. 331+28.77
3'x2'x56.7' RCB
D.A.=27.0 A-R
(Remove)

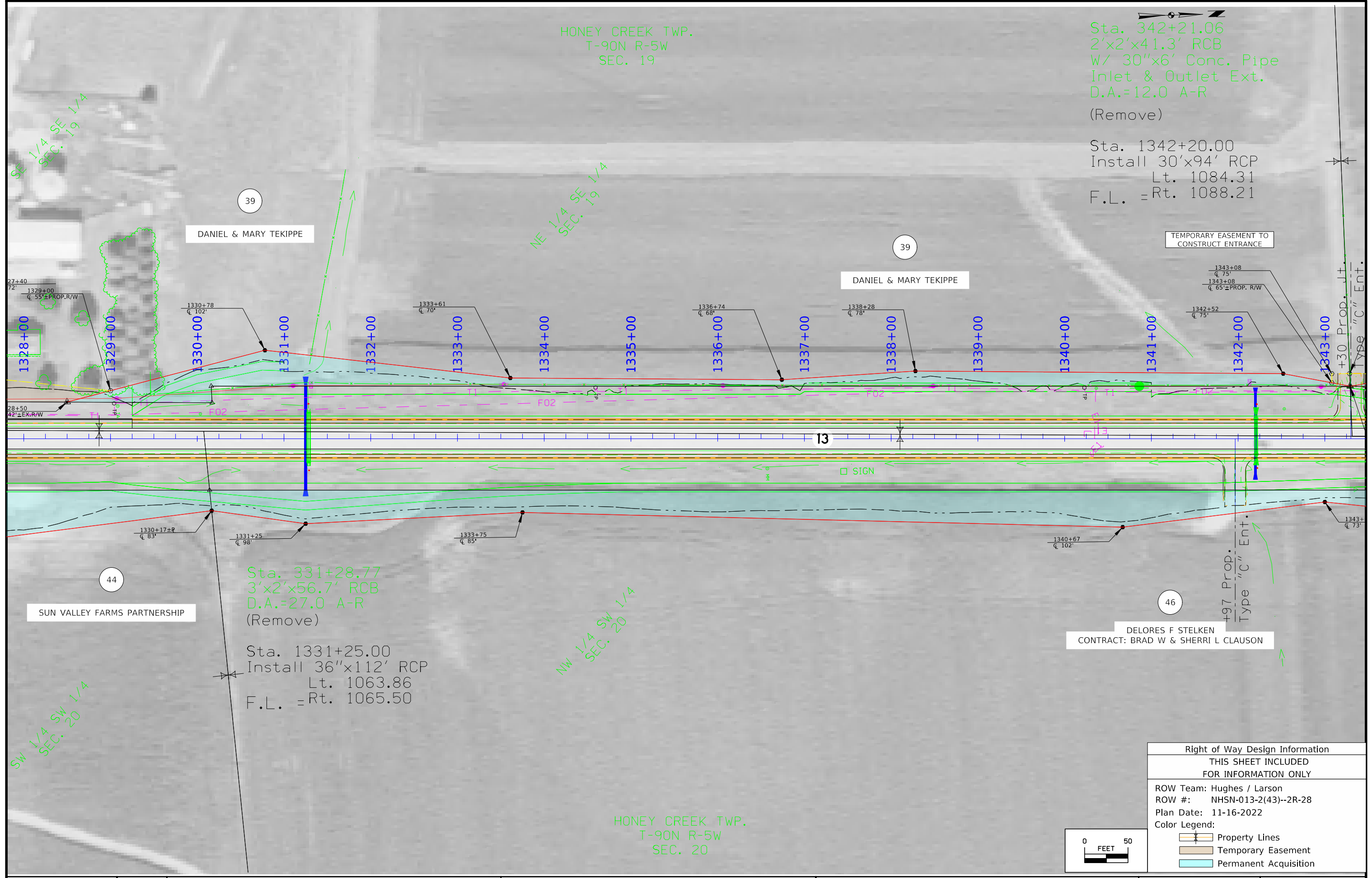
Sta. 1331+25.00
Install 36"x112' RCP
Lt. 1063.86
F.L. = Rt. 1065.50

SW 1/4 SW 1/4
SEC. 20 1/4

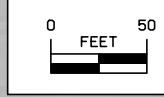
NW 1/4 SW 1/4
SEC. 20 1/4

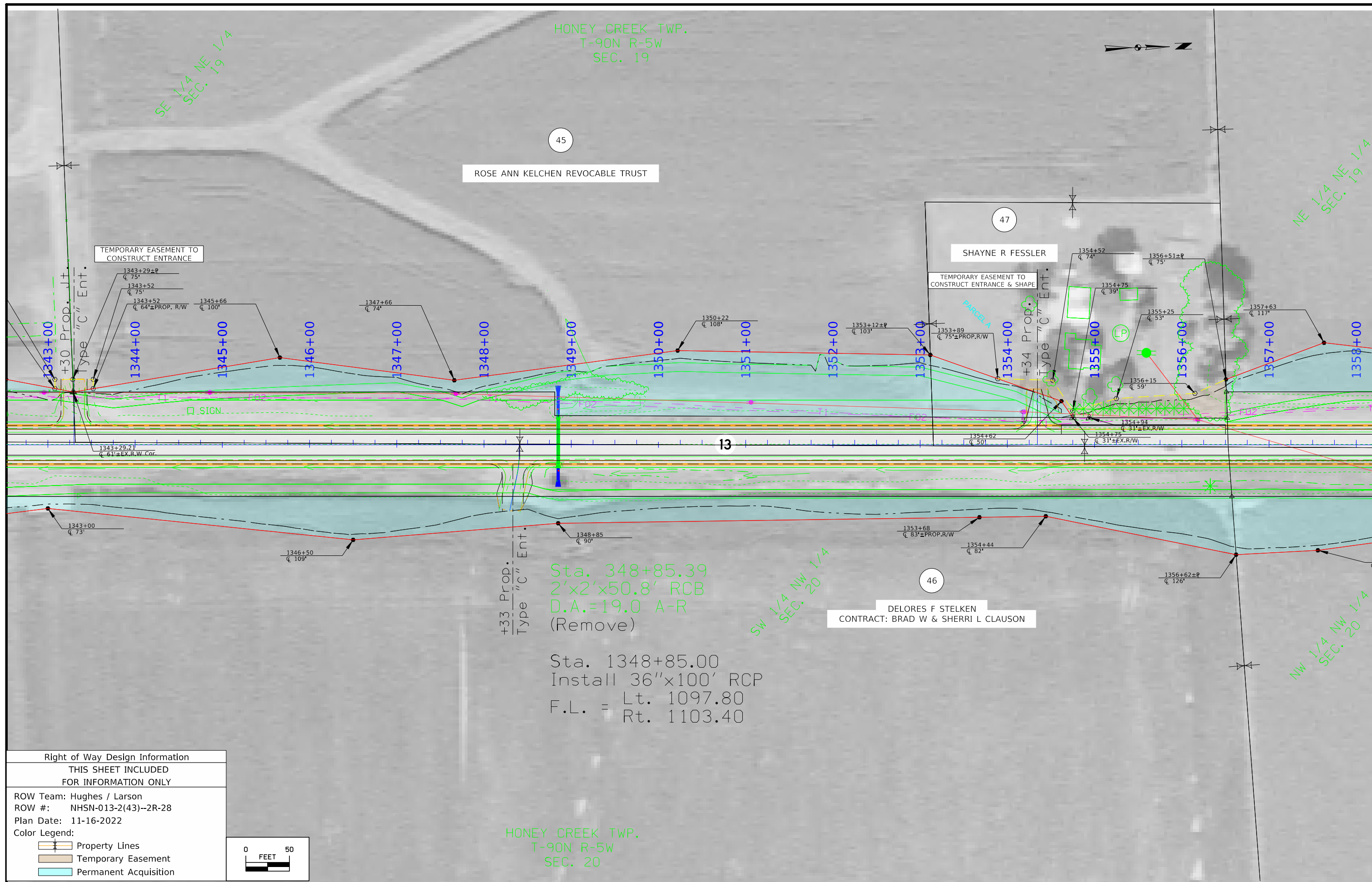
46
DELORES F STELKEN
CONTRACT: BRAD W & SHERRI L CLAUSON

HONEY CREEK TWP.
T-90N R-5W
SEC. 20



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





HONEY CREEK TWP.
T-90N R-5W
SEC. 19

SE 1/4 NE 1/4
SEC. 19

NE 1/4 NE 1/4
SEC. 19

ROSE ANN KELCHEN REVOCABLE TRUST

SHAYNE R FESSLER

DELORES F STELKEN
CONTRACT: BRAD W & SHERRI L CLAUSON

Sta. 348+85.39
2'x2'x50.8' RCB
D.A.=19.0 A-R
(Remove)

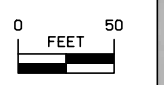
Sta. 1348+85.00
Install 36"x100' RCP
F.L. = Lt. 1097.80
Rt. 1103.40

HONEY CREEK TWP.
T-90N R-5W
SEC. 20

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 11-16-2022

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 19

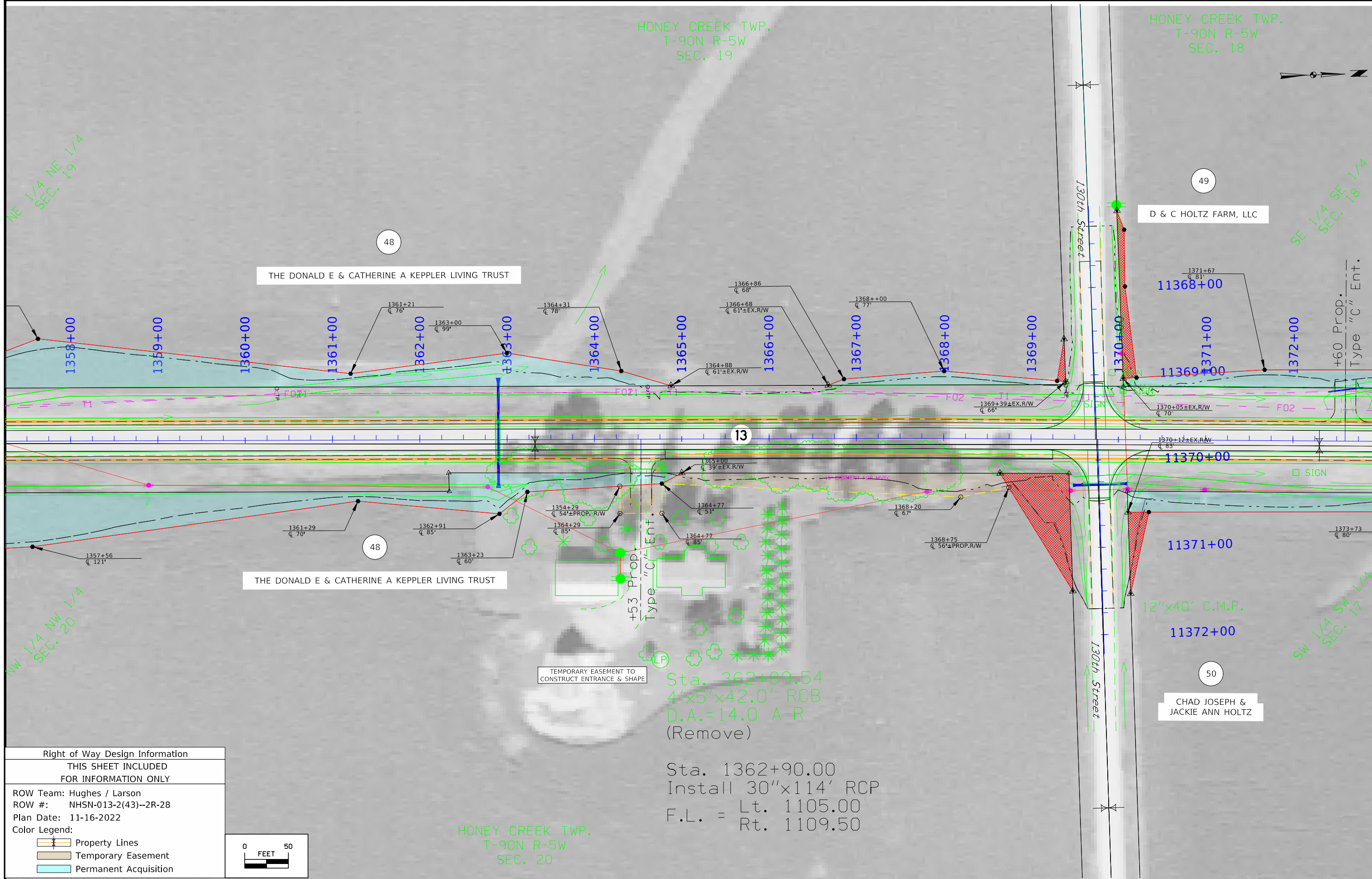
HONEY CREEK TWP.
T-90N R-5W
SEC. 18

NE 1/4 NE 1/4
SEC. 19

SE 1/4 SE 1/4
SEC. 18

NW 1/4 NW 1/4
SEC. 20

SW 1/4 SW 1/4
SEC. 17



THE DONALD E & CATHERINE A KEPPLER LIVING TRUST

D & C HOLTZ FARM, LLC

THE DONALD E & CATHERINE A KEPPLER LIVING TRUST

CHAD JOSEPH &
JACKIE ANN HOLTZ

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

Sta. 362+89.54
4'x5'x42.0' RCB
D.A.=14.0 A-R
(Remove)

Sta. 1362+90.00
Install 30"x114' RCP
F.L. = Lt. 1105.00
Rt. 1109.50

HONEY CREEK TWP.
T-90N R-5W
SEC. 20

Right of Way Design Information

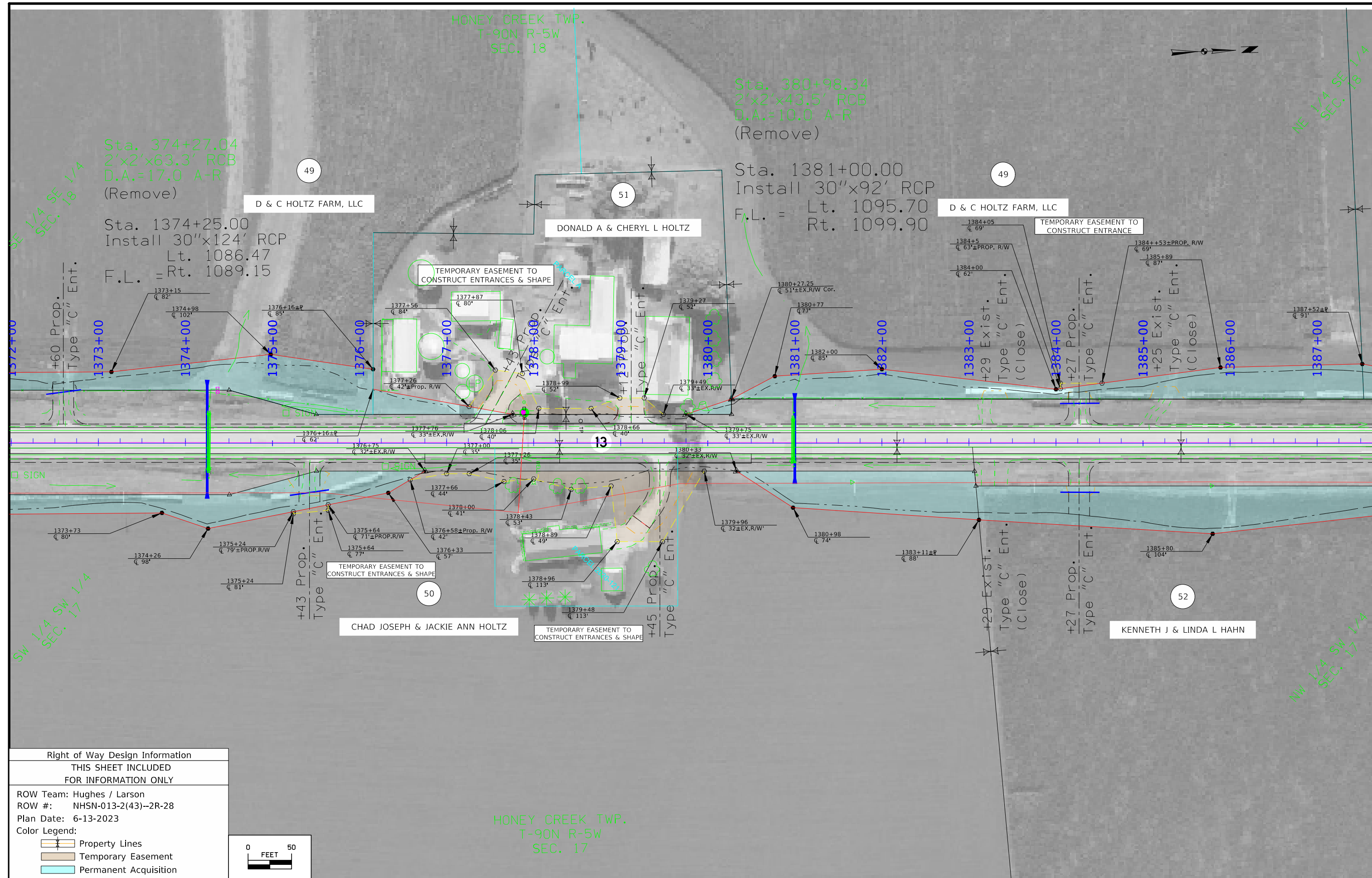
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 11-16-2022

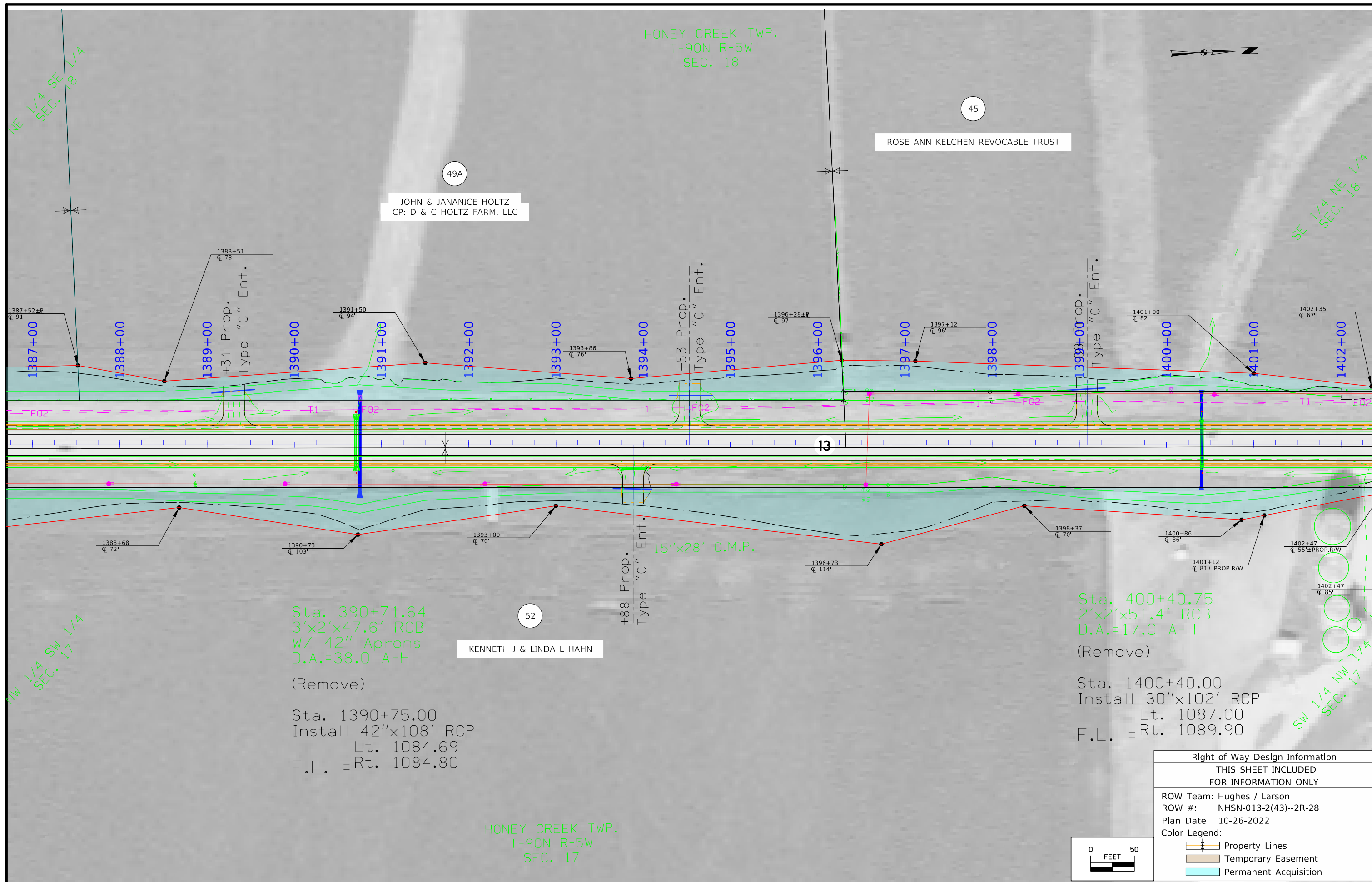
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition





Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 6-13-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



NE 1/4 SE 1/4
SEC. 18

HONEY CREEK TWP.
T-90N R-5W
SEC. 18

ROSE ANN KELCHEN REVOCABLE TRUST

49A
JOHN & JANANICE HOLTZ
CP: D & C HOLTZ FARM, LLC

SE 1/4 NE 1/4
SEC. 18

1387+52+P
C 91'

1388+00

1388+51
C 73'
+31 Prop.
Type "C" Ent.

1390+00

1391+50
C 94'

1391+00

1392+00

1393+00

1393+86
C 76'

1394+00

+53 Prop.
Type "C" Ent.

1395+00

1396+28+P
C 97'

1396+00

1397+00

1397+12
C 96'

1398+00

+88 Prop.
Type "C" Ent.

1401+00
C 82'

1401+00

1401+00

1402+35
C 67'

1402+00

1388+68
C 72'

1390+73
C 103'

1393+00
C 70'

+88 Prop.
Type "C" Ent.

15"x28" C.M.P.

1396+73
C 114'

1398+37
C 70'

1400+86
C 86'

1401+12
C 81± PROP.R/W

1402+47
C 55± PROP.R/W

1402+47
C 85'

NW 1/4 SW 1/4
SEC. 17

Sta. 390+71.64
3'x2'x47.6' RCB
W/ 42" Aprons
D.A.=38.0 A-H

(Remove)

52
KENNETH J & LINDA L HAHN

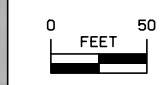
Sta. 400+40.75
2'x2'x51.4' RCB
D.A.=17.0 A-H

(Remove)

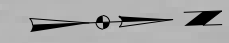
Sta. 1400+40.00
Install 30"x102' RCP
Lt. 1087.00
F.L. = Rt. 1089.90

SW 1/4 NW 1/4
SEC. 17

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 10-26-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 18



SE 1/4 NE 1/4
SEC. 18

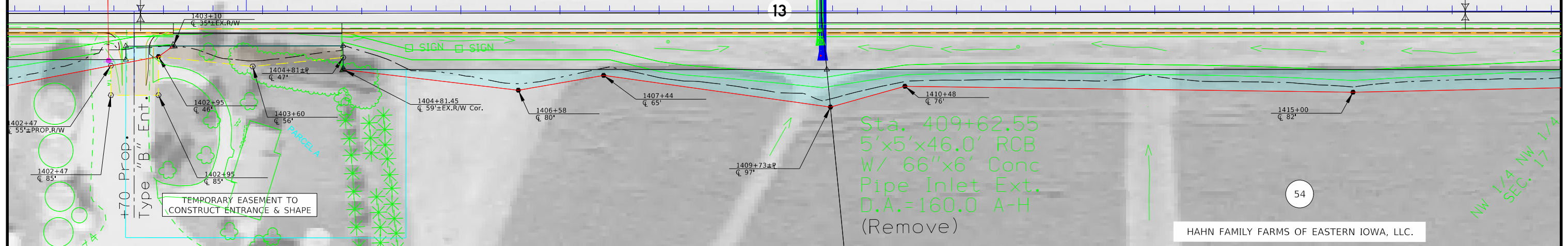
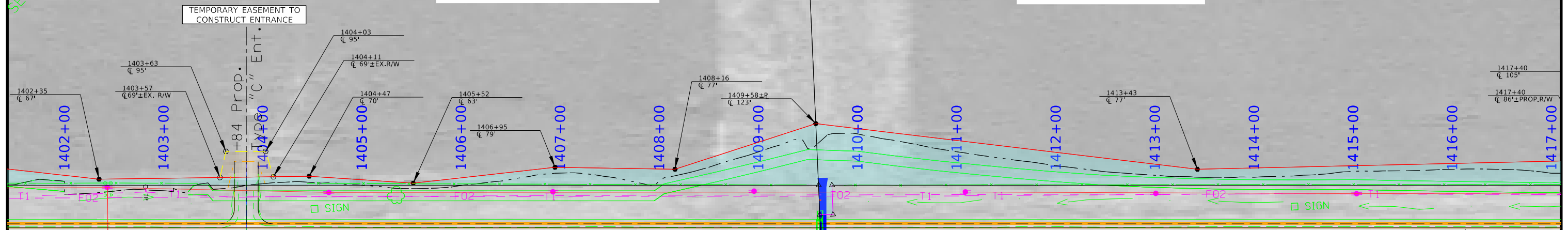
NE 1/4 NE 1/4
SEC. 18

45

55

ROSE ANN KELCHEN REVOCABLE TRUST

LAVERN A & JEFFREY F KELCHEN



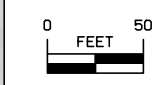
KENNETH J & LINDA L HAHN

Sta. 409+62.55
5'x5'x46.0' RCB
w/ 66"x6' Conc
Pipe Inlet Ext.
D.A.=160.0 A-H
(Remove)

Sta. 1409+65.00
Install 78"x88' RCP
F.L. = Lt. 1070.07
Rt. 1079.15

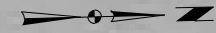
HAHN FAMILY FARMS OF EASTERN IOWA, LLC.

NW 1/4 NW 1/4
SEC. 17



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	11-16-22
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

HONEY CREEK TWP.
T-90N R-5W
SEC. 18



NE 1/4 NE 1/4
SEC. 18

SE 1/4 SE 1/4
SEC. 17

55

LAVERN A & JEFFREY F KELCHEN

56

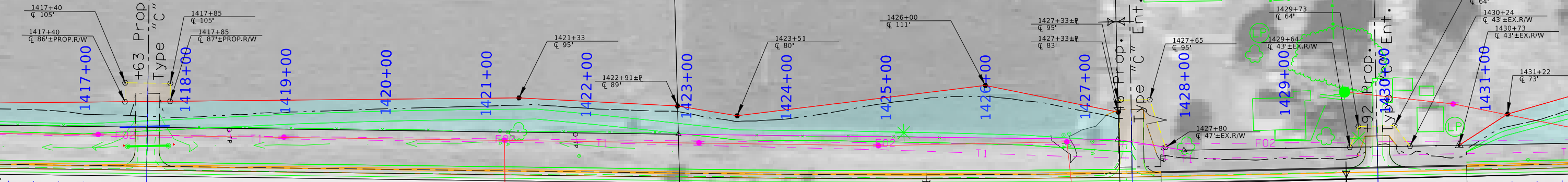
BARR LIVING TRUST

57

THOMAS E AMTHAUER

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCES



13

NW 1/4 NW 1/4
SEC. 17

SW 1/4 SW 1/4
SEC. 8

1421+15
± 69'
1421+37
± 75'±PROP.R/W
1421+40
± 90'

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

+74 Prop.
Type "C" Ent.

1421+76
± 96'
1422+24
± 97'

1423+99
± 105'

1425+19
± 142'

1427+39
± 101'

1429+63
± 108'

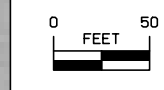
1431+24
± 84'

54

HAHN FAMILY FARMS OF EASTERN IOWA, LLC.

HONEY CREEK TWP.
T-90N R-5W
SEC. 17

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	6-19-23
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 7

HONEY CREEK TWP.
T-90N R-5W
SEC. 8

THOMAS E AMTHAUER

ASHLEY M LANSING

BARR LIVING TRUST

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

JAMES B ARTHUR 2008 REVOCABLE TRUST

HAHN FAMILY FARMS OF EASTERN IOWA, LLC.

Sta. 432+31.85
3'x3'x61.8' RCB
D.A.=25.0 A-R
(Remove)

Sta. 1432+30.00
Install 36"x122' RCP
F.L. = Lt. 1095.00
Rt. 1097.50

Sta. 438+28.40
2'x2'x68.2' RCB
D.A.=10.0 A-R
(Remove)

Sta. 1438+30.00
Install 30"x102' RCP
F.L. = Lt. 1102.00
Rt. 1106.70

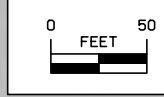
Sta. 444+11.24
2'x2'x54.2' RCB
D.A.=23.0 A-R
(Remove)

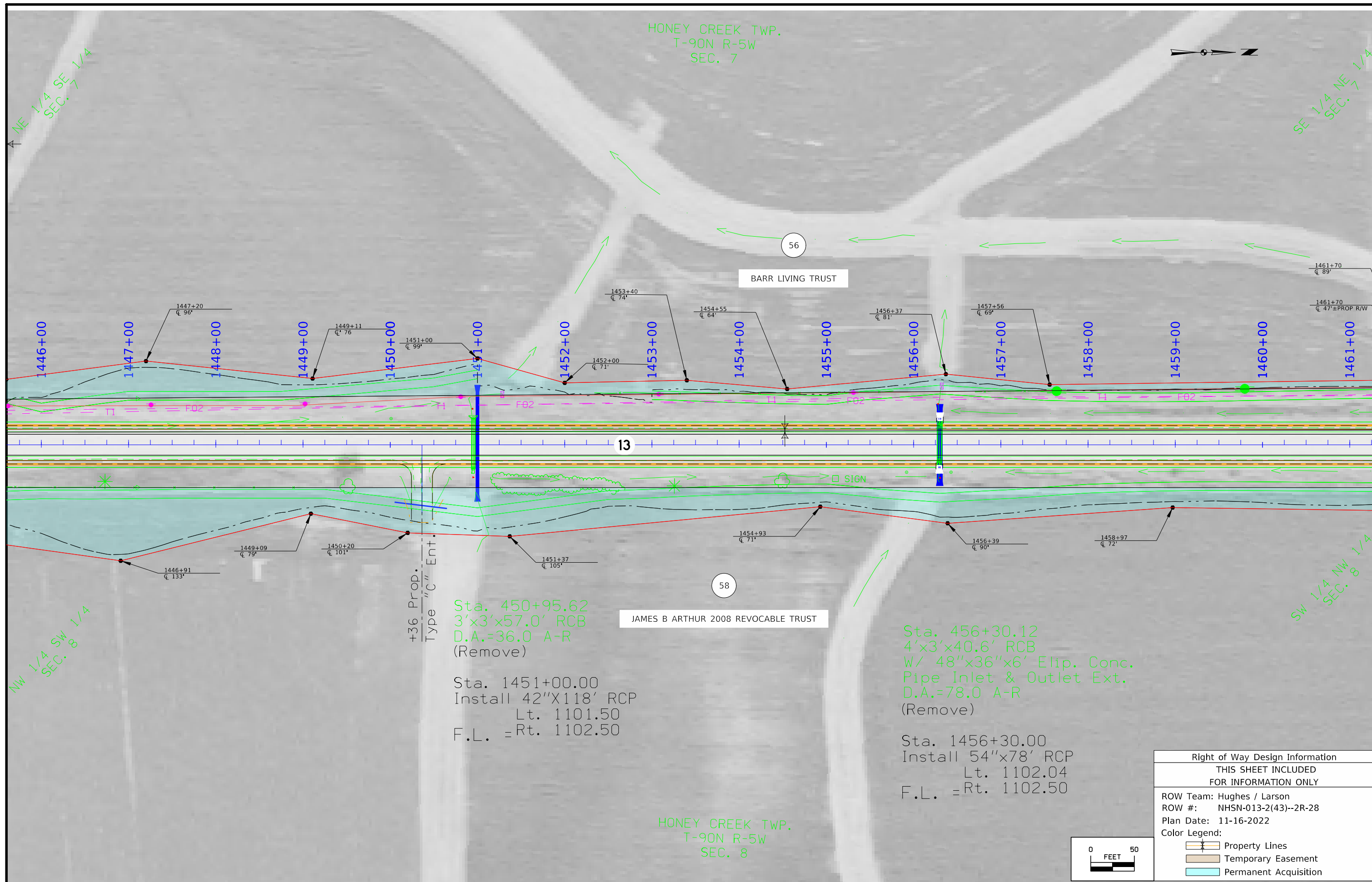
Sta. 1444+10.00
Install 30"x98' RCP
F.L. = Lt. 1110.00
Rt. 1113.40

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 6-19-2023

Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition





Sta. 450+95.62
 3'x3'x57.0' RCB
 D.A.=36.0 A-R
 (Remove)

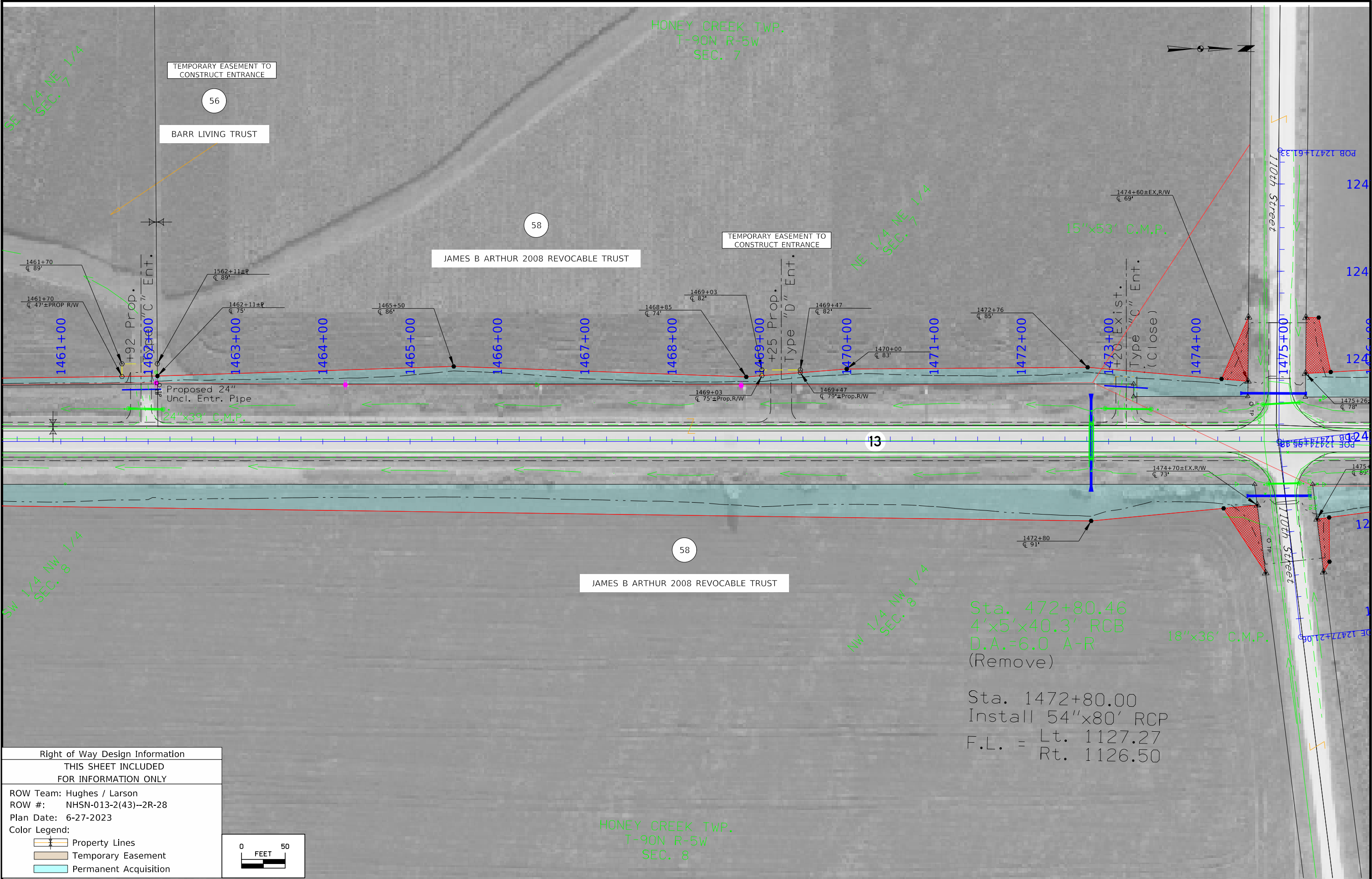
Sta. 1451+00.00
 Install 42"X118' RCP
 Lt. 1101.50
 F.L. = Rt. 1102.50

Sta. 456+30.12
 4'x3'x40.6' RCB
 w/ 48"x36"x6' Elip. Conc.
 Pipe Inlet & Outlet Ext.
 D.A.=78.0 A-R
 (Remove)

Sta. 1456+30.00
 Install 54"x78' RCP
 Lt. 1102.04
 F.L. = Rt. 1102.50

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

HONEY CREEK TWP.
T-90N R-5W
SEC. 7



TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

56

BARR LIVING TRUST

58

JAMES B ARTHUR 2008 REVOCABLE TRUST

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

58

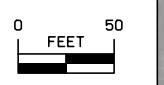
JAMES B ARTHUR 2008 REVOCABLE TRUST

Sta. 472+80.46
4'x5'x40.3' RCB
D.A.=6.0 A-R
(Remove)

Sta. 1472+80.00
Install 54"x80' RCP
F.L. = Lt. 1127.27
Rt. 1126.50

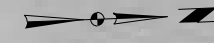
HONEY CREEK TWP.
T-90N R-5W
SEC. 8

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 6-27-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



FILE NO.	ENGLISH	DESIGN TEAM STRUM / PRINDLE / McNAMARA	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER H.29
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HONEY CREEK TWP.
T-90N R-5W
SEC. 6



NE 1/4 SEC. 6
1/4

SE 1/4 SEC. 6
1/4

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

JAMES B ARTHUR 2008 REVOCABLE TRUST

MOORMAN INC.

12472+00

58

61

12473+00

18"x42' C.M.P.

1479+84
± PROP. R/W
± 92'

1480+24
± PROP. R/W
± 91'

1480+24
± PROP. R/W
± 77'

1481+00

1485+39
± PROP. R/W
± 67'

1488+32±P
± 73'

1488+73
± 76'

12474+00

1477+00

1478+00

1479+00

1481+00

1482+00

1483+00

1484+00

1485+00

1486+00

1487+00

1488+00

1489+00

1490+00

12475+00

13

1475+26±EX.R/W
± 78'

12476+00

1476+20
± 78'

1479+24
± 105'

58

1484+32
± 69'

12477+00

JAMES B ARTHUR 2008 REVOCABLE TRUST

Sta. 488+99.74
2'x2'x45.0' RCB
W/ 30"x6' Conc.
Pipe Inlet Ext.
D.A.=14.0 A-R
(Remove)

+49 Prop.
Type "C" Ent.

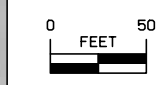
Sta. 1489+00.00
Install 30"x82' RCP
F.L. = Lt. 1145.85
Rt. 1147.00

NW 1/4 SW 1/4
SEC. 5

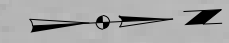
SW 1/4 SW 1/4
SEC. 5

HONEY CREEK TWP.
T-90N R-5W
SEC. 5

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 6



Sta. 502+06.07
4'x3'x45.0' RCB
W/ 48"x36"x6' Elip.
Conc. Pipe Inlet Ext.
D.A.=128.0 A-R
(Remove)

Sta. 1502+00.00
Install 54"x80' RCP
F.L. = Lt. 1143.00
Rt. 1144.15

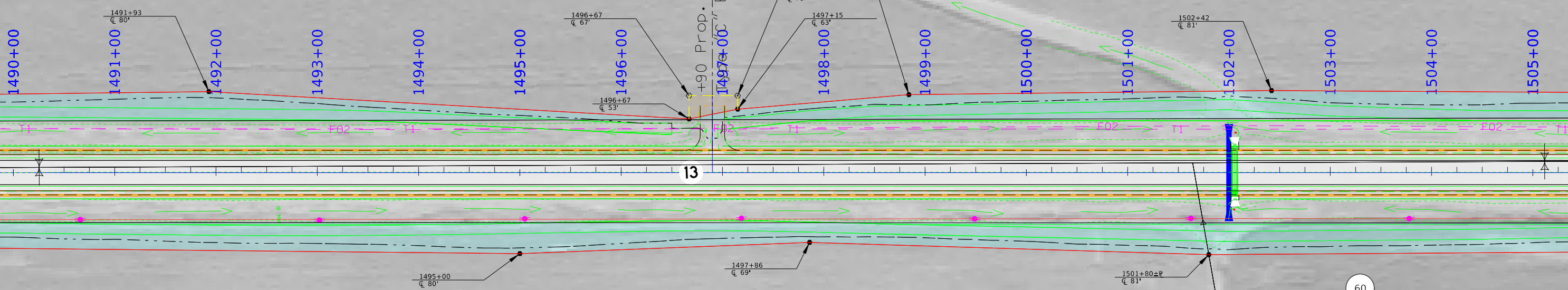
NE 1/4 SE 1/4
SEC. 6

SE 1/4 NE 1/4
SEC. 6

61

MOORMAN INC.

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE



58

JAMES B ARTHUR 2008 REVOCABLE TRUST

60

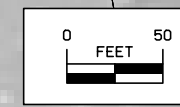
JOSEPH C KINTZLE REVOCABLE TRUST

NW 1/4 SW 1/4
SEC. 5

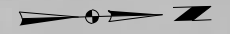
SW 1/4 NW 1/4
SEC. 5

HONEY CREEK TWP.
T-90N R-5W
SEC. 5

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 6



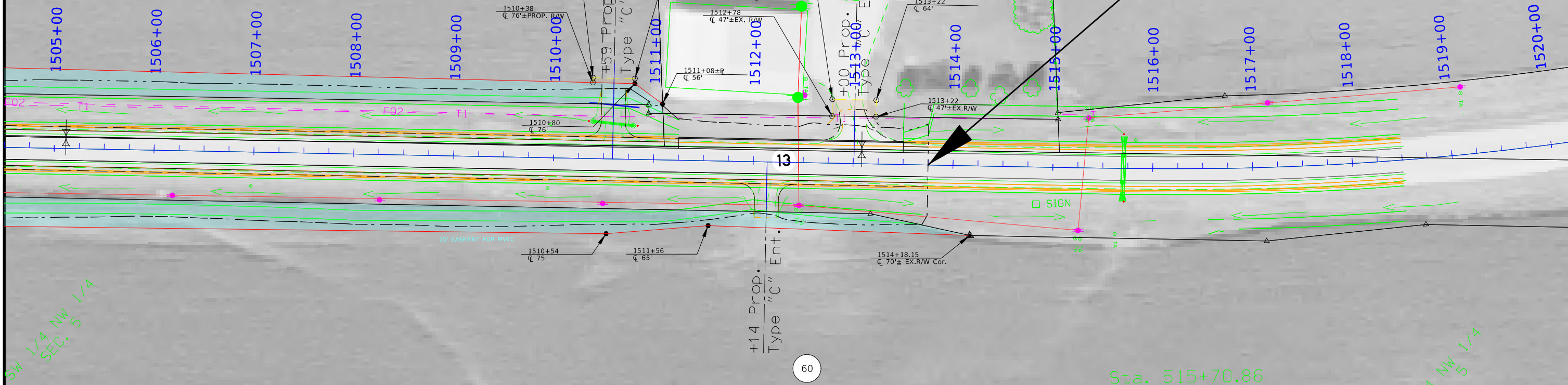
SE 1/4 NE 1/4
SEC. 6

NE 1/4 NE 1/4
SEC. 6

61
MOORMAN INC.

MICHAEL J & EDEN C GAUL

STA. 1513+75.00
END PAVING
END CONSTRUCTION
Ref. Loc. 53.7



SW 1/4 NW 1/4
SEC. 5

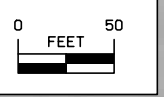
NW 1/4 NW 1/4
SEC. 5

60
JOSEPH C KINTZLE REVOCABLE TRUST

Sta. 515+70.86
3'x2'x27.6' RCB
W/ 36"x10' Conc. Pipe
Inlet & Outlet Ext.
D.A.=13.0 A-R

HONEY CREEK TWP.
T-90N R-5W
SEC. 5

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





Sta. 61+71.95
Twin 4'x3'x46.1' RCB
D.A.=161.0 A-R

NE 1/4 SW 1/4
SEC. 17

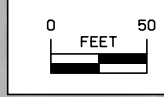
SE 1/4 SW 1/4
SEC. 17

DELAWARE TWP.
T-89N R-5W
SEC. 17

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-3(43)--2R-28
Plan Date: 4-25-2023

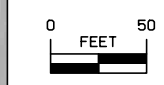
Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition






FILE NO.	ENGLISH	DESIGN TEAM STRUM / PRINDLE / McNAMARA	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER HE.1
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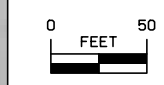


Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 5-1-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 10-26-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.
T-90N R-5W
SEC. 31

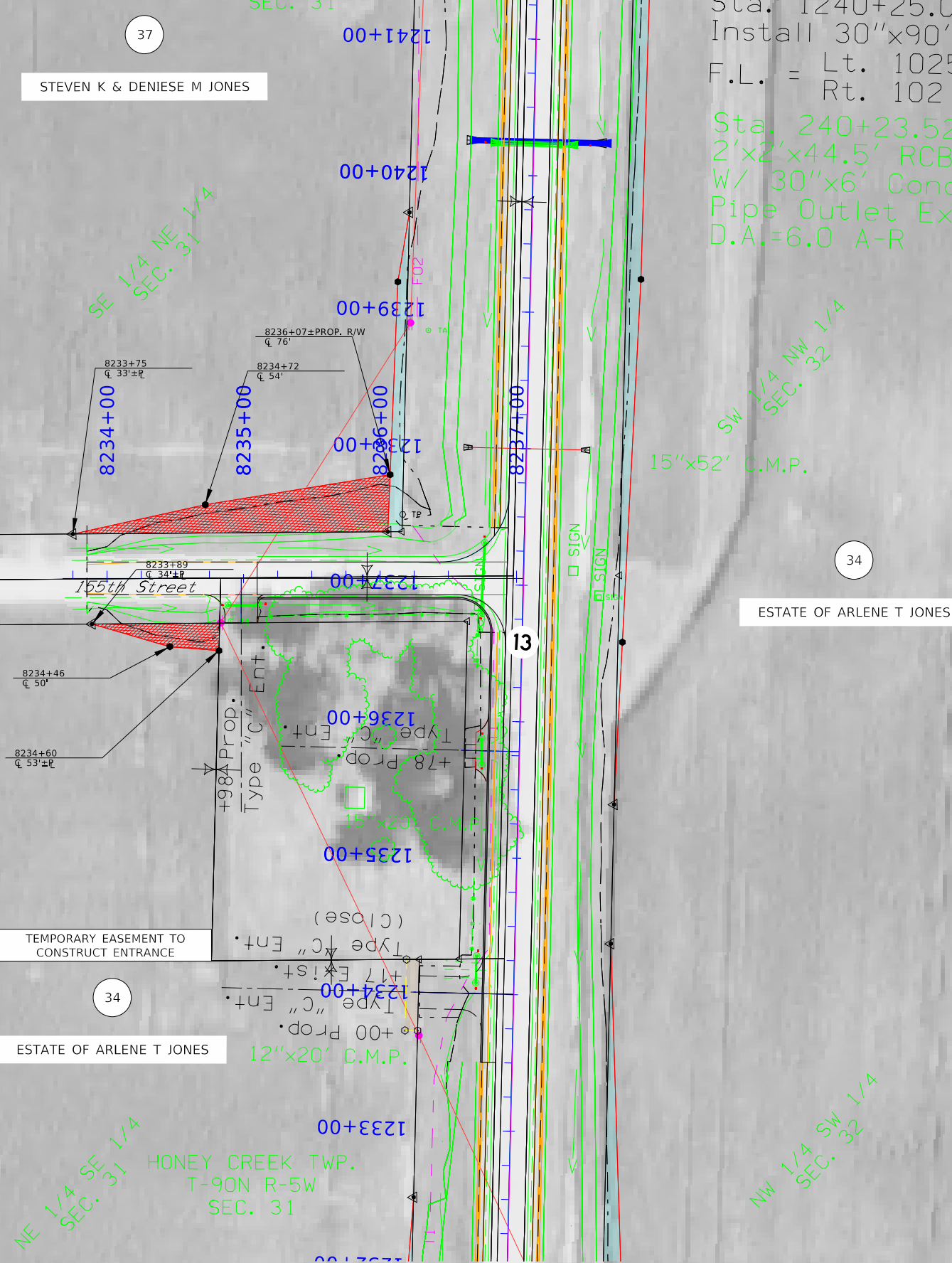
HONEY CREEK TWP.
T-90N R-5W
SEC. 32

(Remove)
Sta. 1240+25.00
Install 30"x90' RCP
F.L. = Lt. 1025.93
Rt. 1021.88

Sta. 240+23.52
2'x2'x44.5' RCB
W/ 30"x6' Conc.
Pipe Outlet Ext.
D.A.=6.0 A-R

SW 1/4 NW 1/4
SEC. 32
15"x52' C.M.P.

HONEY CREEK TWP.
T-90N R-5W
SEC. 32



STEVEN K & DENIESE M JONES

ESTATE OF ARLENE T JONES

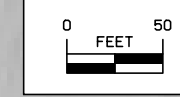
TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

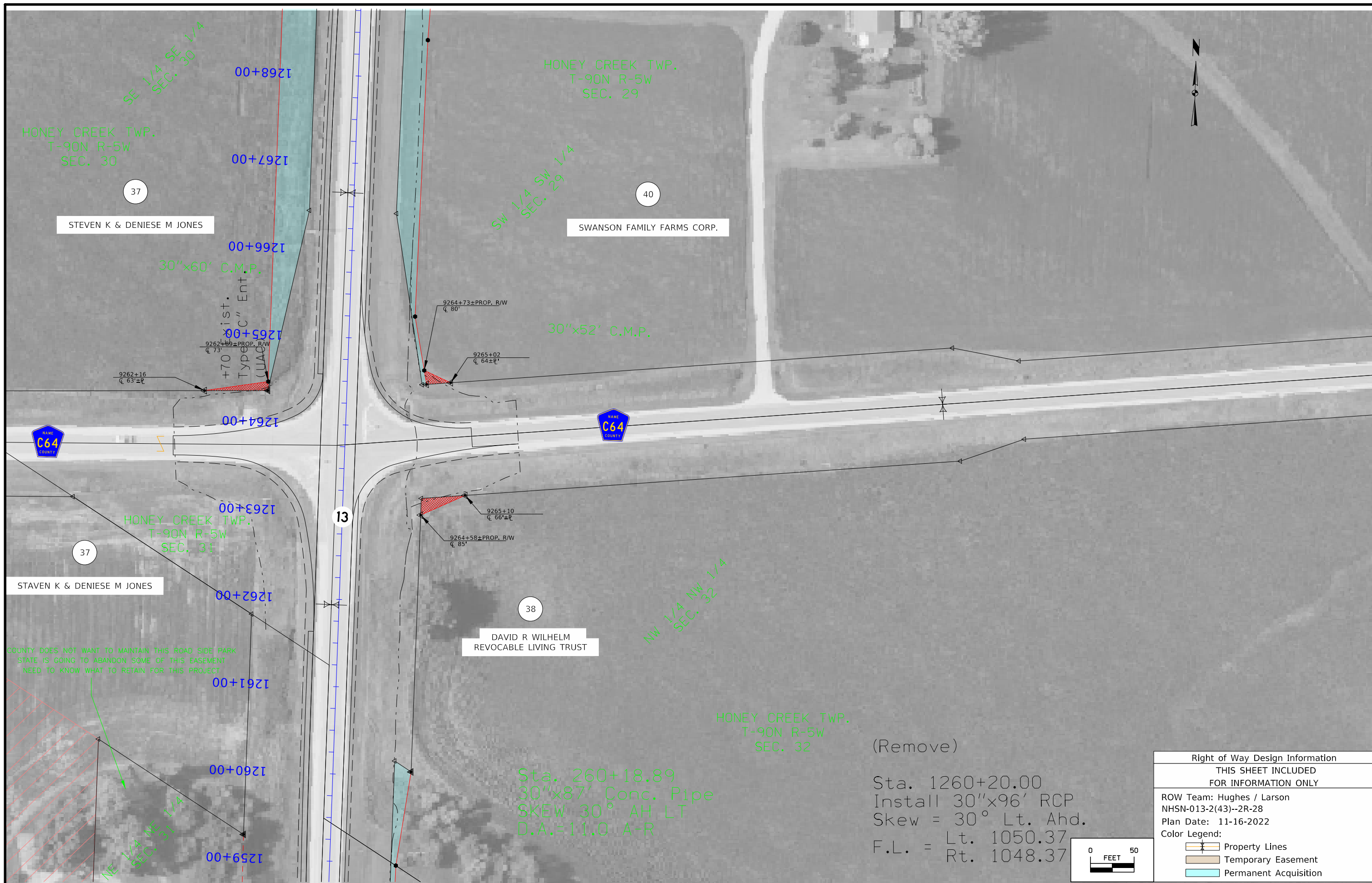
ESTATE OF ARLENE T JONES

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 5/2/2023

Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

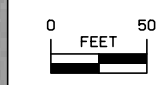




COUNTY DOES NOT WANT TO MAINTAIN THIS ROAD SIDE PARK
STATE IS GOING TO ABANDON SOME OF THIS EASEMENT
NEED TO KNOW WHAT TO RETAIN FOR THIS PROJECT

Sta. 260+18.89
30"x87' Conc. Pipe
SKEW 30° AH LT
D.A.=11.0 A-R

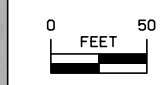
(Remove)
Sta. 1260+20.00
Install 30"x96' RCP
Skew = 30° Lt. Ahd.
F.L. = Lt. 1050.37
Rt. 1048.37



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson NHSN-013-2(43)--2R-28 Plan Date: 11-16-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 4-11-2023	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



FILE NO.	ENGLISH	DESIGN TEAM STRUM / PRINDLE / McNAMARA	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER HE.6
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Sta. 374+27.04
 2'x2'x63.3' RCB
 D.A.=17.0 A-R

(Remove)

Sta. 1374+25.00
 Install 30"x124' RCP
 F.L. = Lt. 1086.47
 Rt. 1089.15



49

D & C HOLTZ FARM, LLC

50

CHAD JOSEPH & JACKIE ANN HOLTZ

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 18

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 17

SE 1/4 SE 1/4
 SEC. 18 1/4

SW 1/4 SW 1/4
 SEC. 17 1/4

130th Street

130th Street

48

THE DONALD E &
 CATHERINE A KEPPLER LIVING TRUST

THE DONALD E & CATHERINE A KEPPLER LIVING TRUST

NE 1/4 NE 1/4
 SEC. 19 1/4

NW 1/4 NW 1/4
 SEC. 20 1/4

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 19

HONEY CREEK TWP.
 T-90N R-5W
 SEC. 20

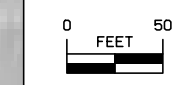
Type "C" Ent.
 +60 Prop.

12"x40' C.M.P.

Right of Way Design Information
 THIS SHEET INCLUDED
 FOR INFORMATION ONLY

ROW Team: Hughes / Larson
 ROW #: NHNS-013-2943)--2R-28
 Plan Date: 11-16-22

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition





HONEY CREEK TWP.
T-90N R-5W
SEC. 6

HONEY CREEK TWP.
T-90N R-5W
SEC. 5

SW 1/4 SW 1/4
SEC. 5

JAMES B ARTHUR 2008 REVOCABLE TRUST

JAMES B ARTHUR 2008 REVOCABLE TRUST

JAMES B ARTHUR 2008 REVOCABLE TRUST

JAMES B ARTHUR 2008 REVOCABLE TRUST

HONEY CREEK TWP.
T-90N R-5W
SEC. 7

HONEY CREEK TWP.
T-90N R-5W
SEC. 8

58

58

58

58

13

1479+00

1478+00

1477+00

1476+00

1475+00

1474+00

1473+00

1472+00

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12475+00

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12473+00

12472+00

12471+00

12470+00

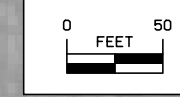
Sta. 472+80.46
4'x5'x40.3' RCB
D.A.=6.0 A-R

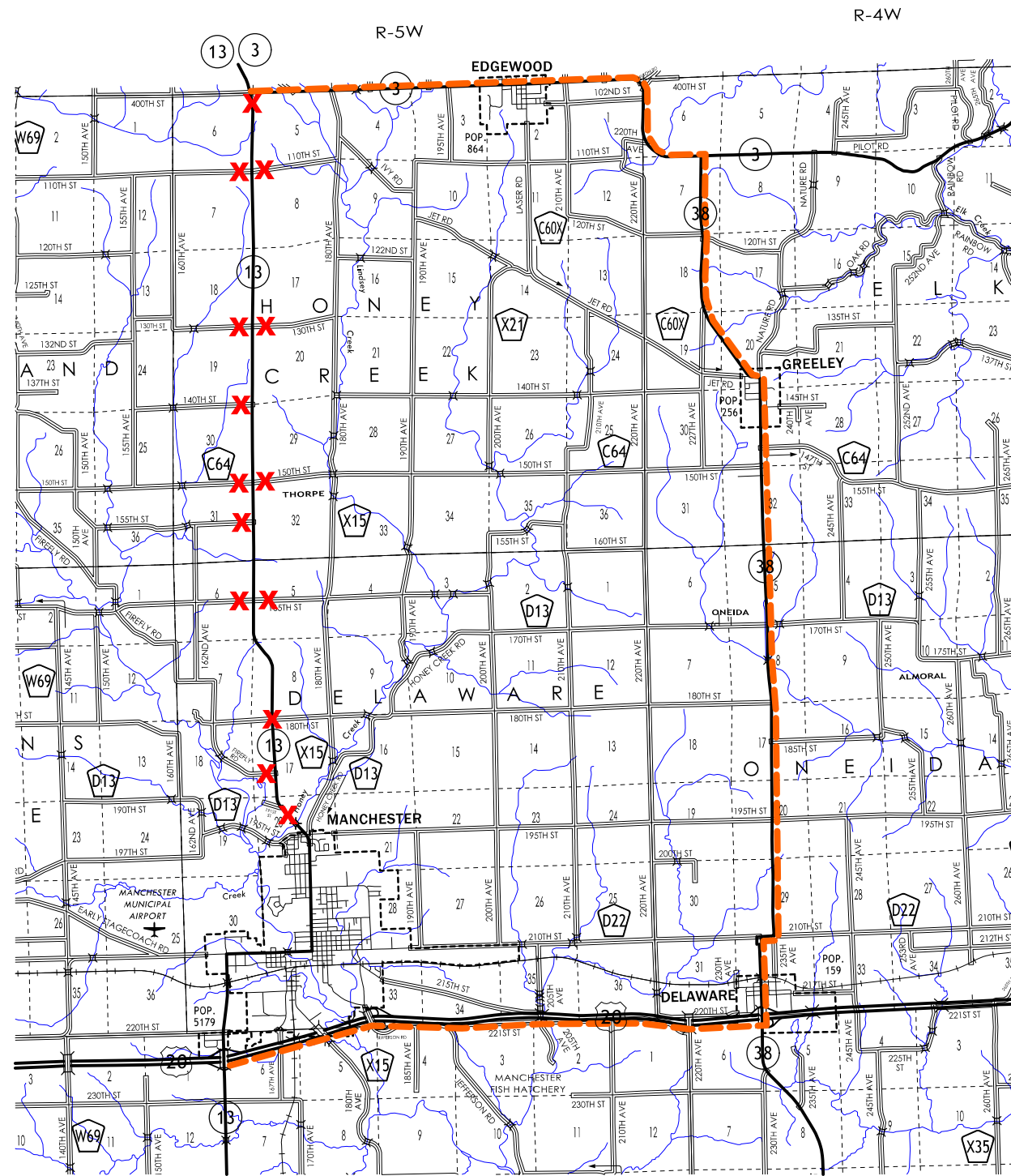
(Remove)
Sta. 1472+80.00
Install 54"x80' RCP
F.L. = Lt. 1127.27
Rt. 1126.50

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: NHSN-013-2(43)--2R-28
Plan Date: 6-27-2023

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition





LEGEND:

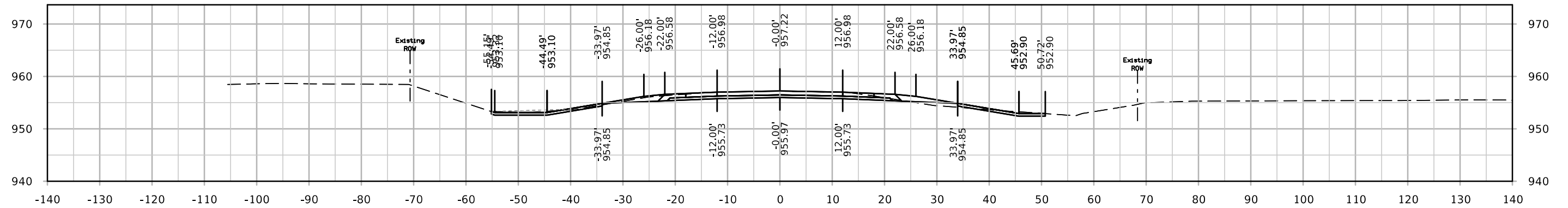
X Closure

- - - - - Detour Route

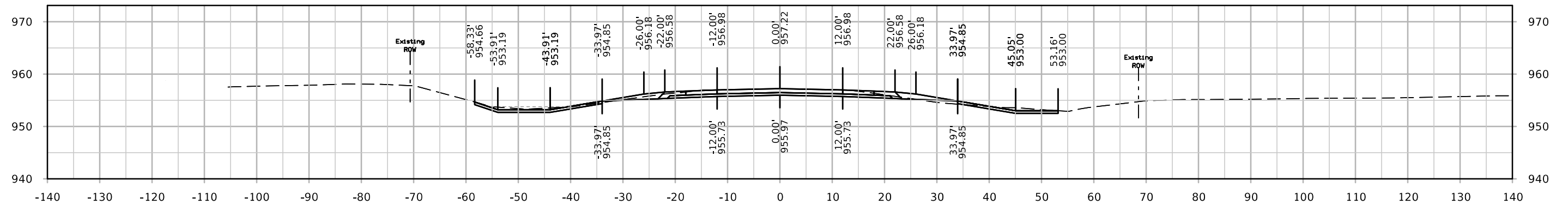
DETOUR
 HONEY CREEK 0.2 mi N of Co Rd to S Jct IA 3
 IA 13 NB/SB CLOSED

FILE NO.	ENGLISH	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER	J.1
12:52:03 PM	11/23/2021	jstrum				

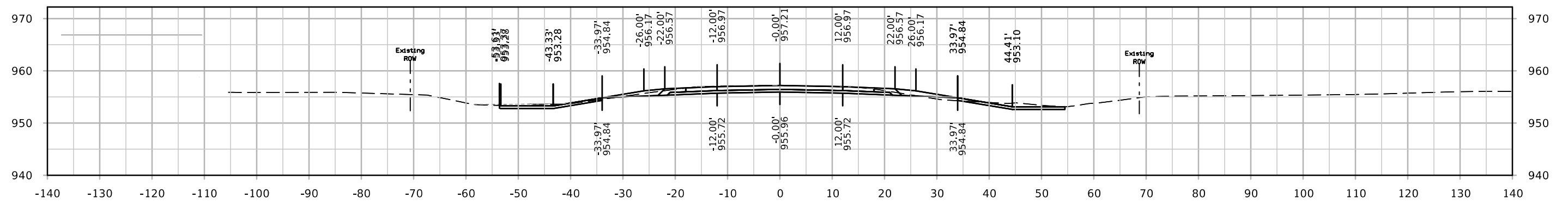
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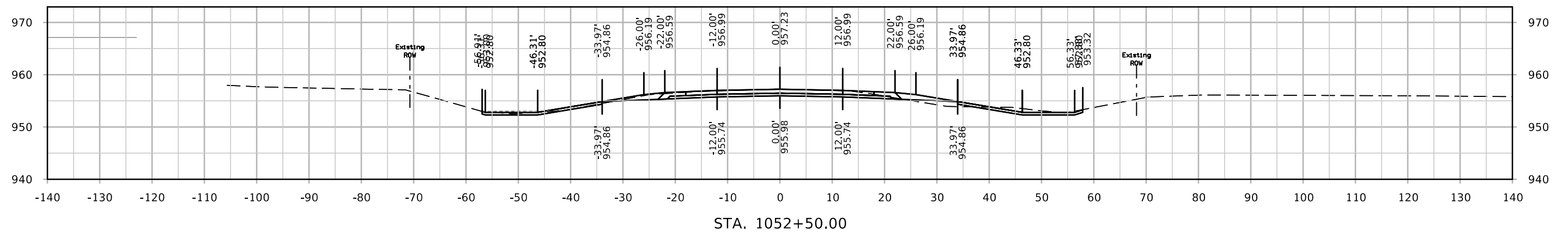
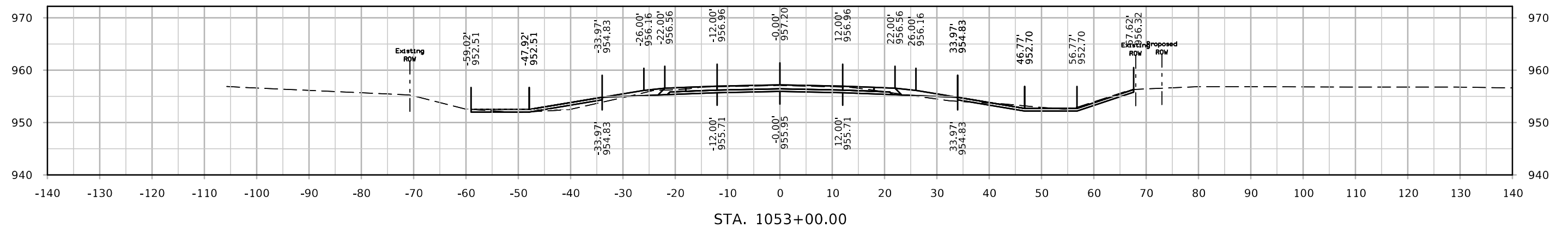
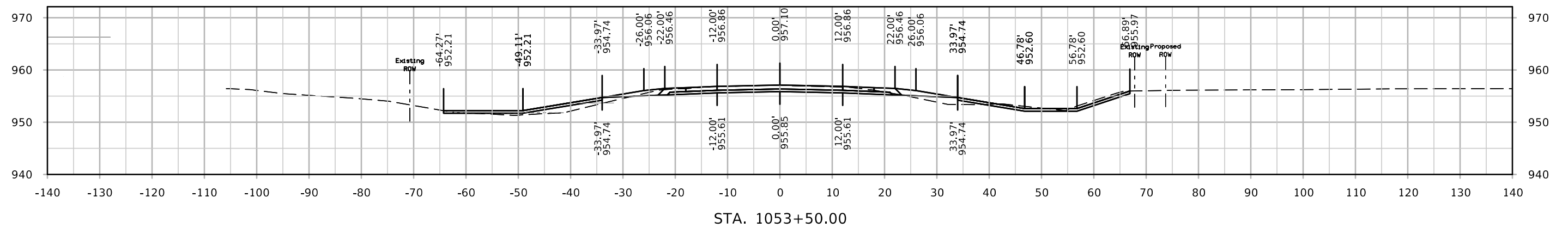
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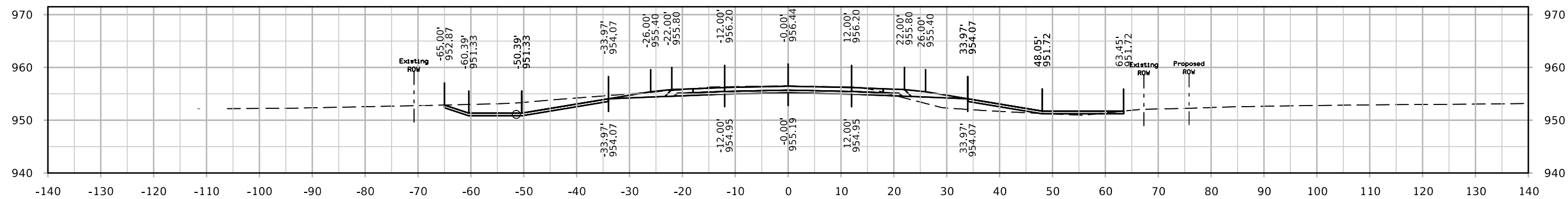


STA. 1051+50.00

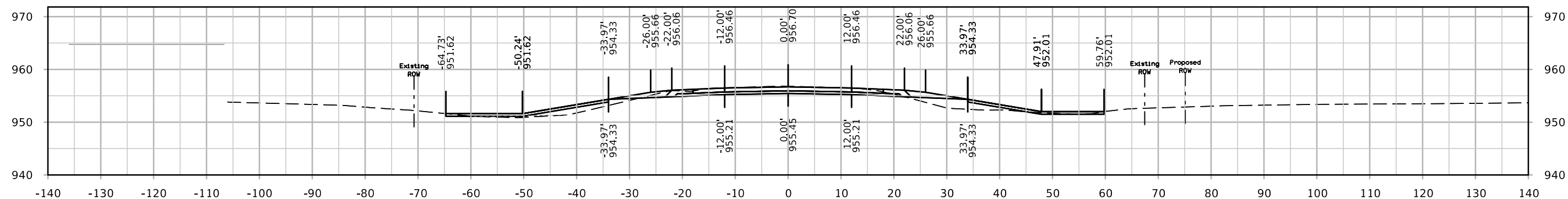


STA. 1051+00.00

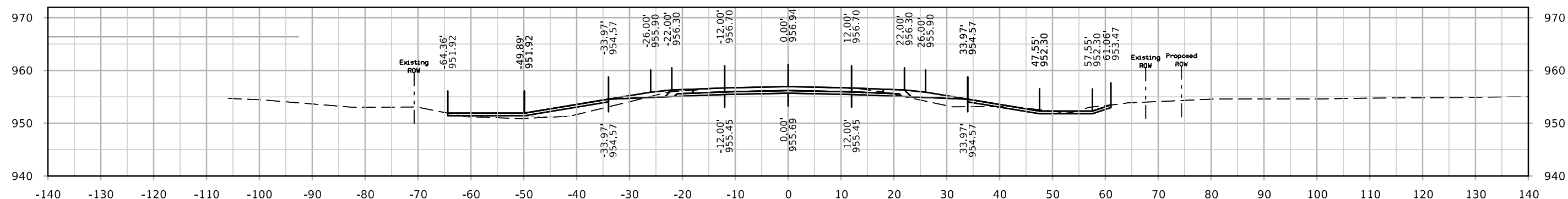




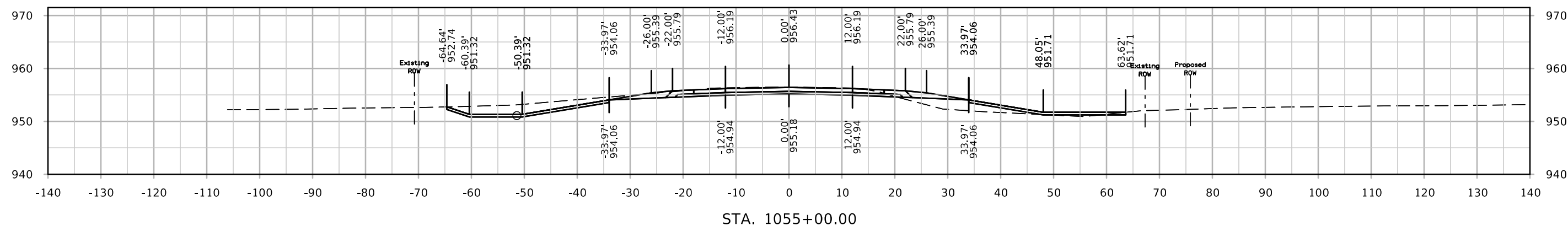
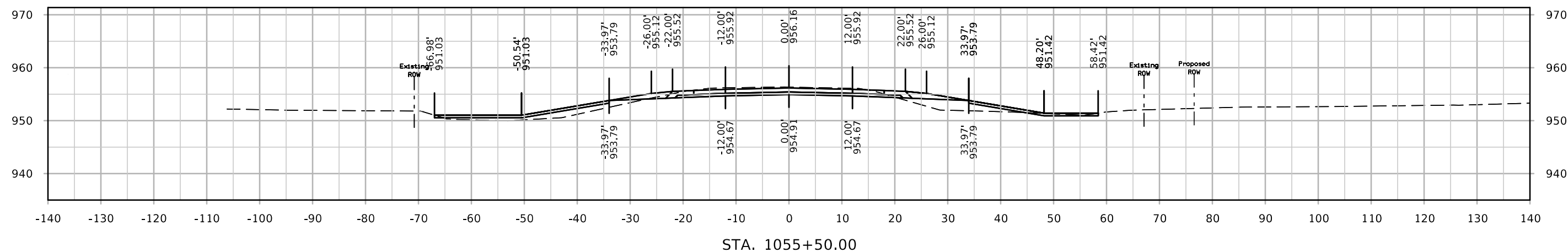
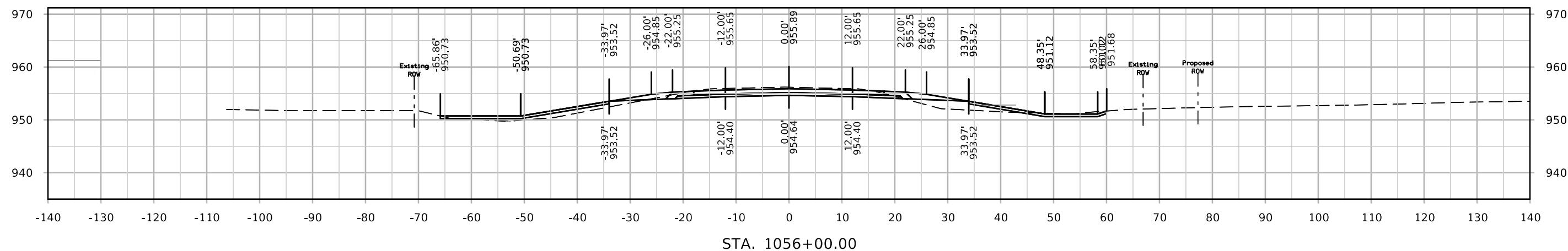
STA. 1054+98.18

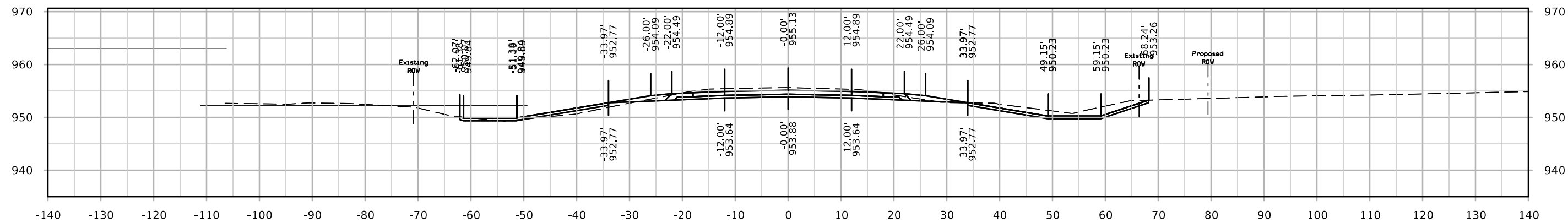


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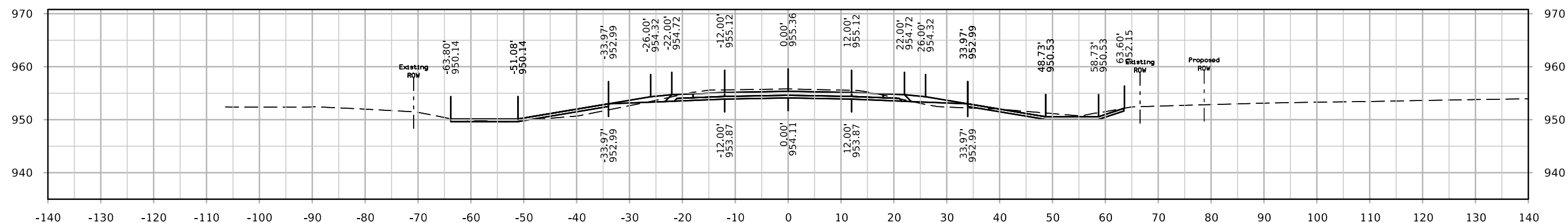


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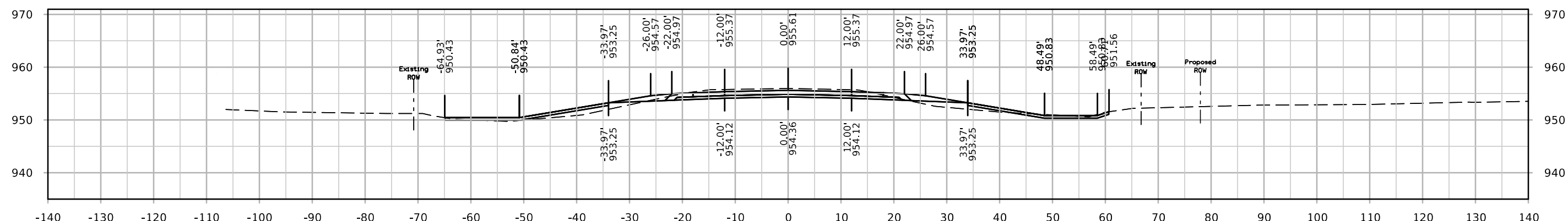




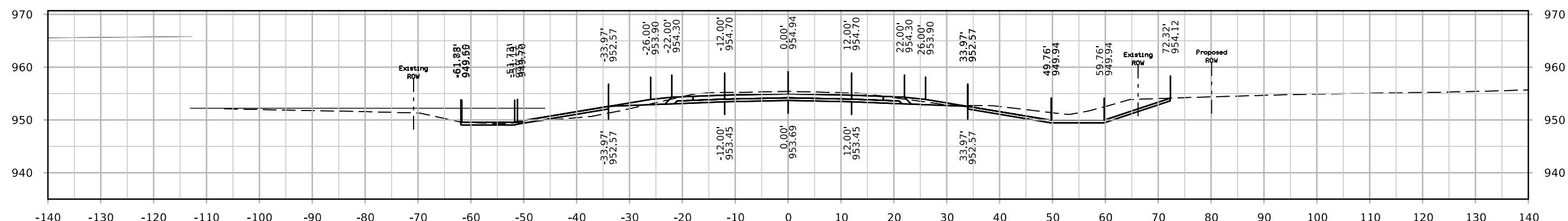
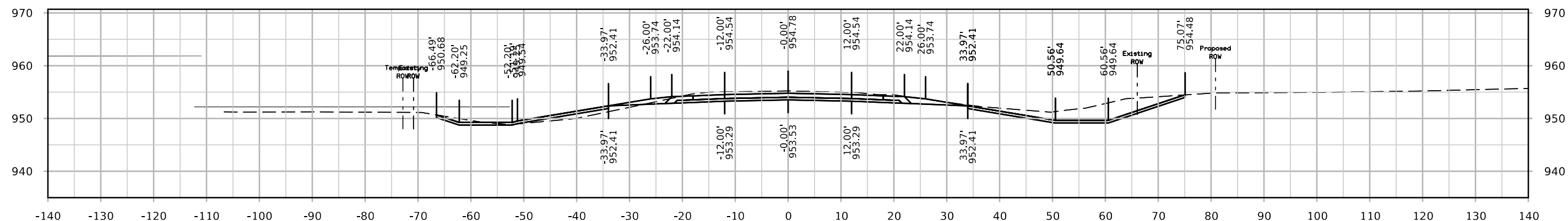
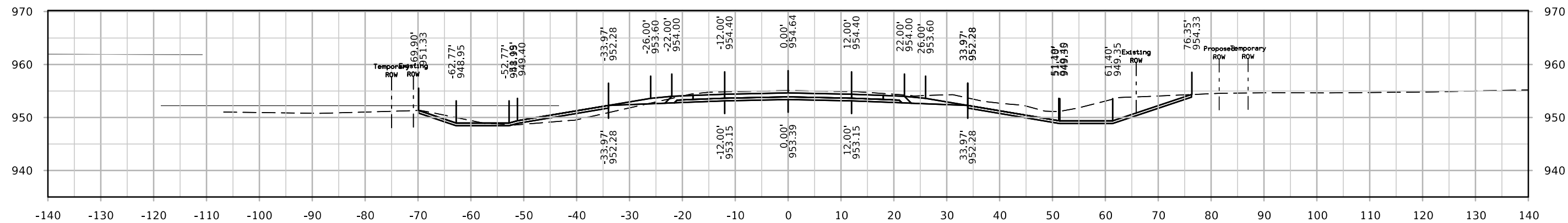
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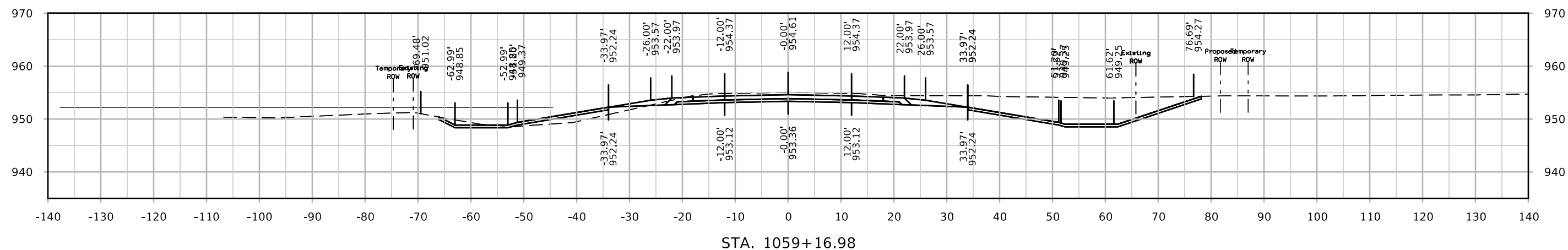
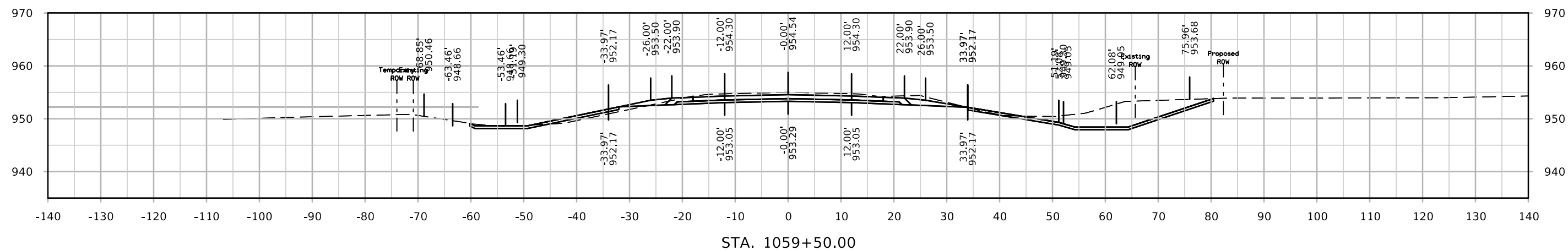
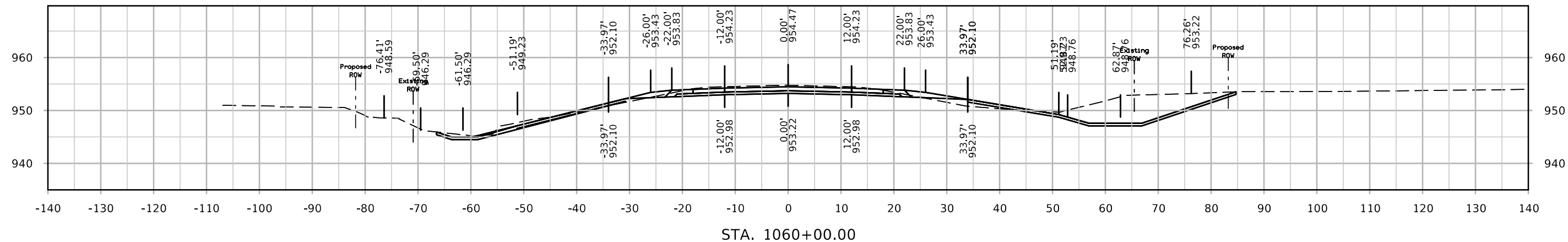


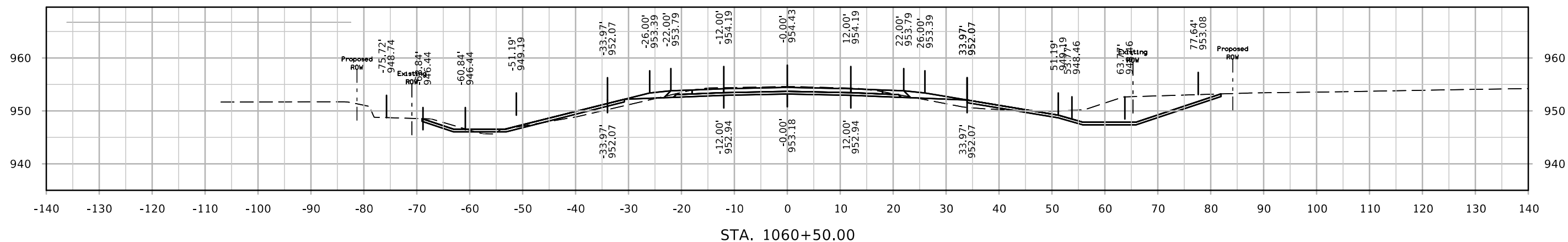
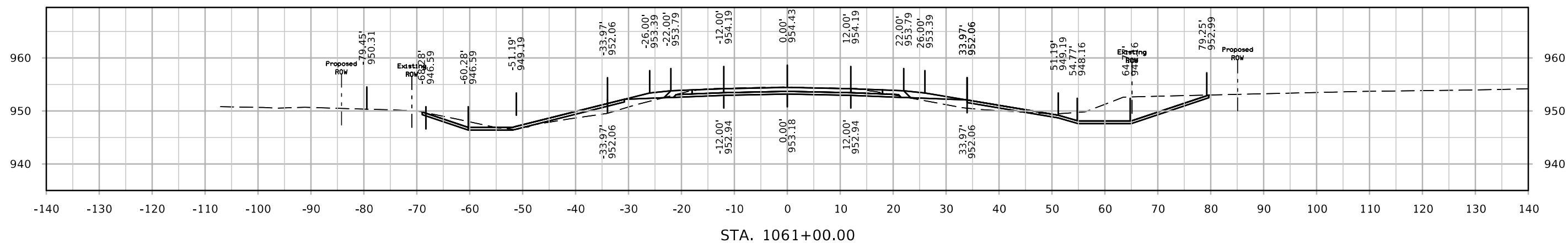
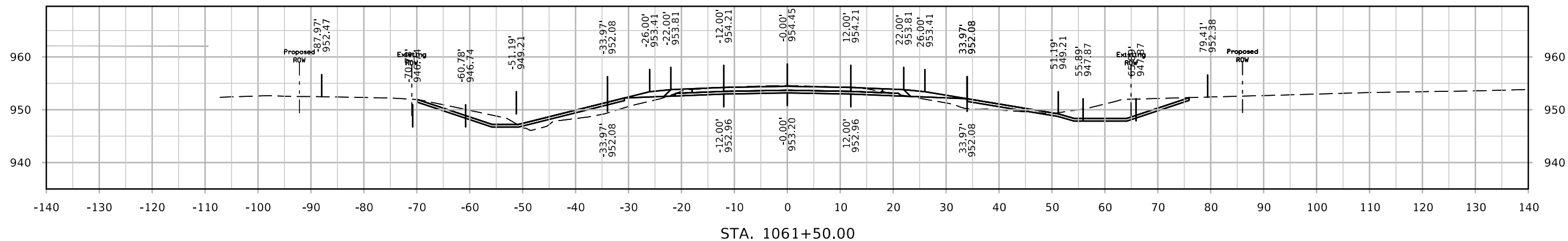
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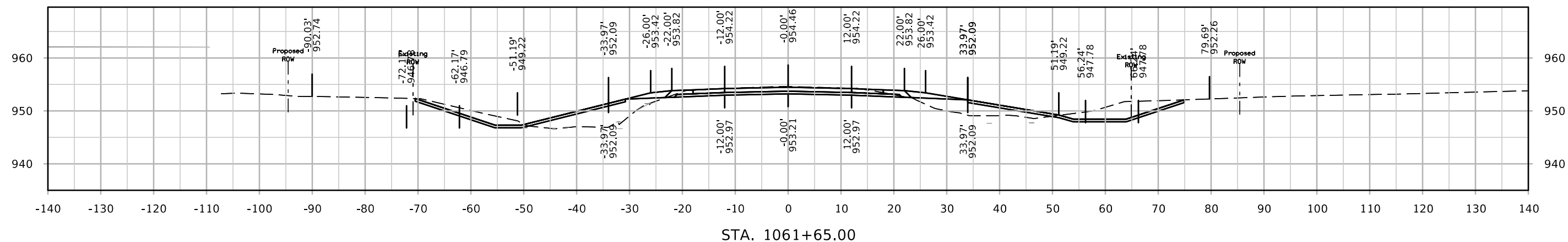
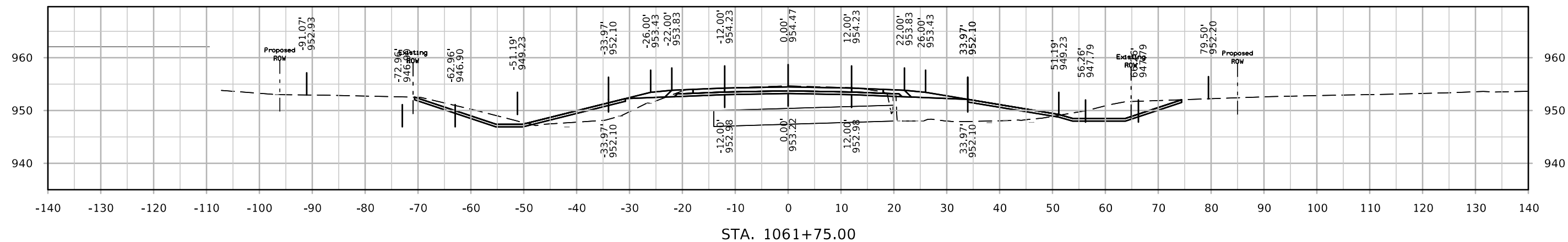
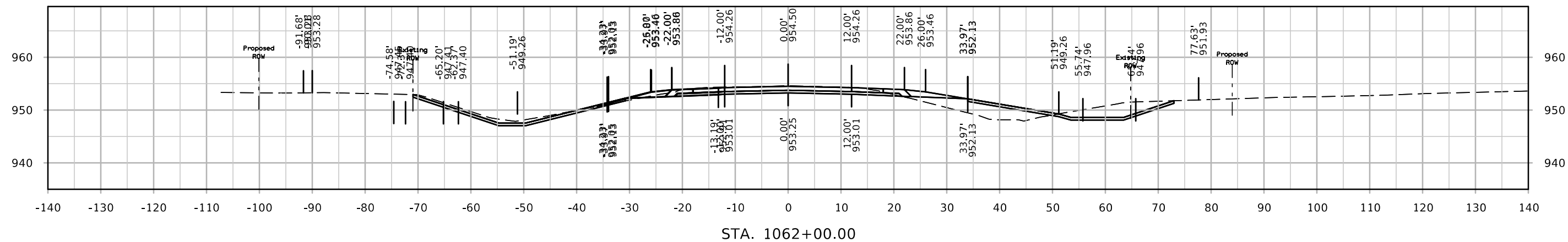


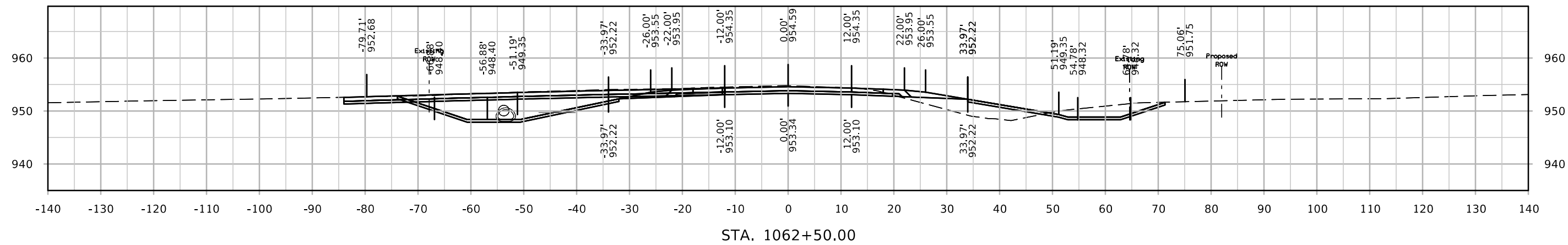
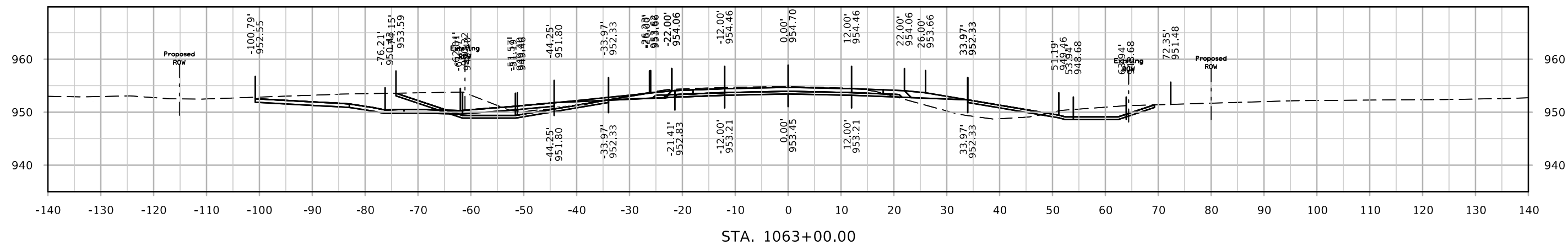
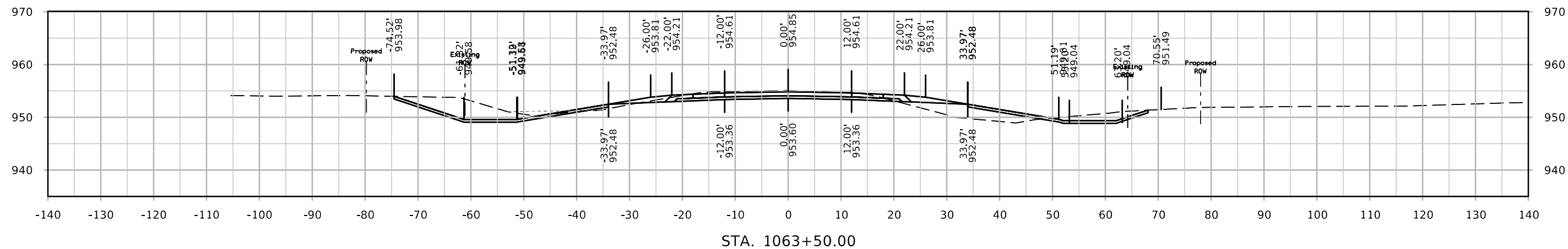
STA. 1056+50.00

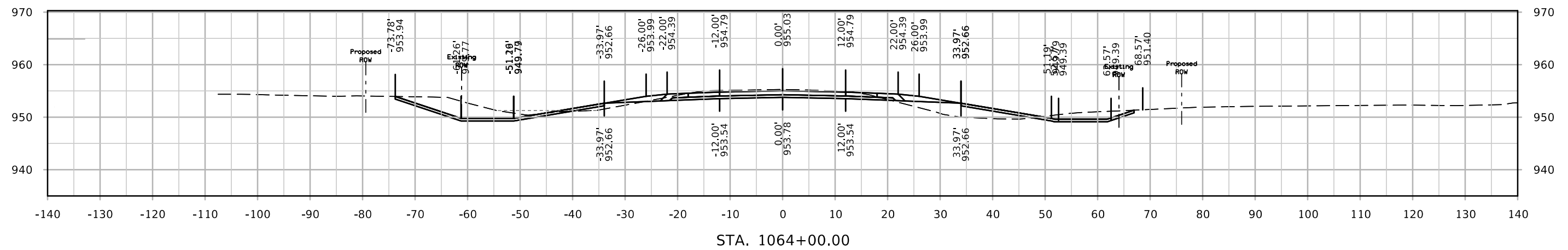
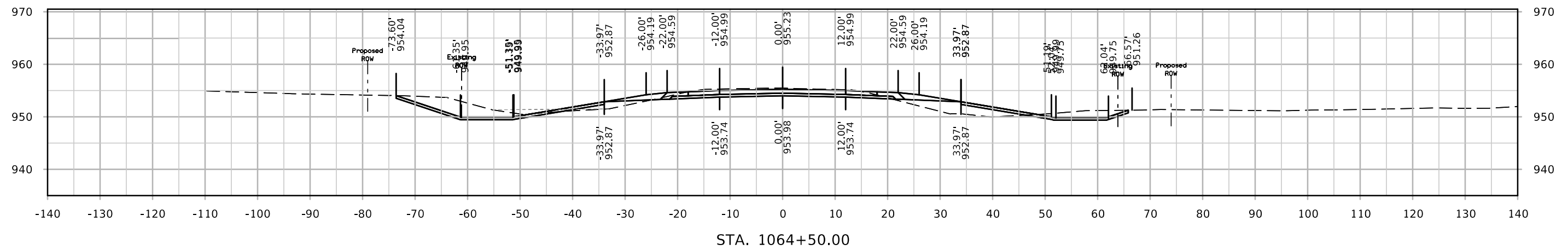
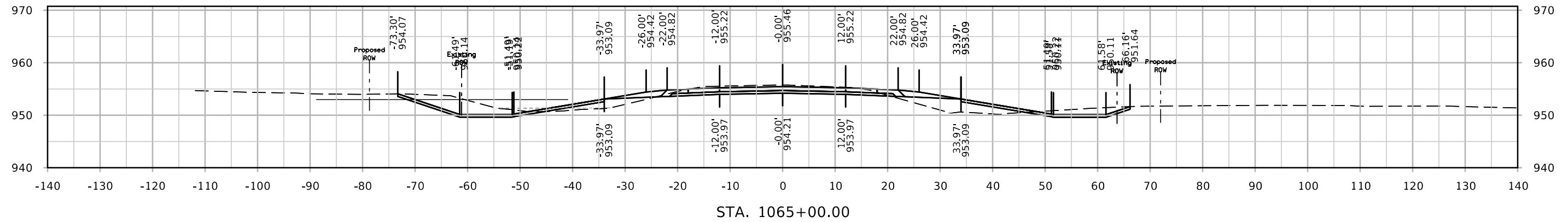


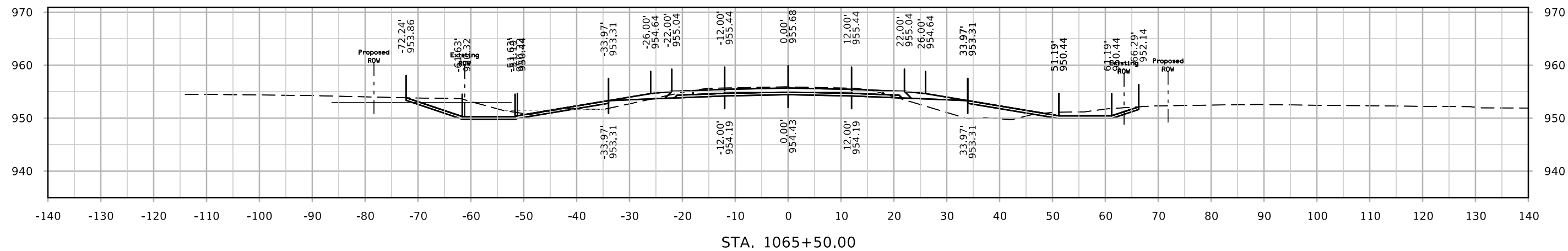
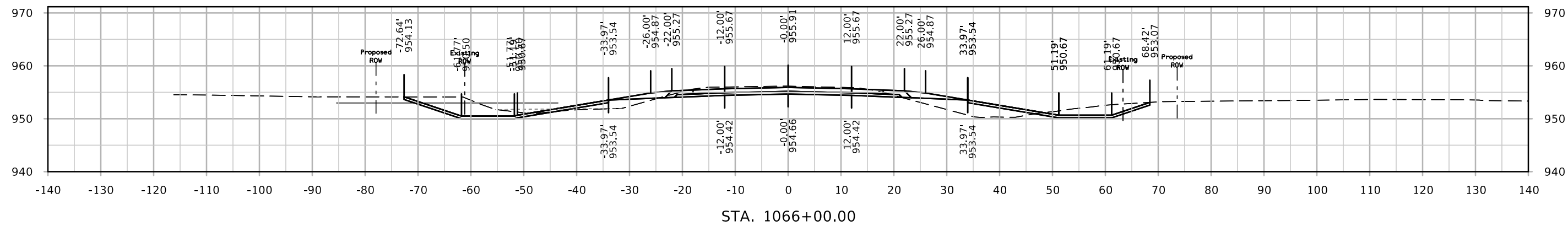
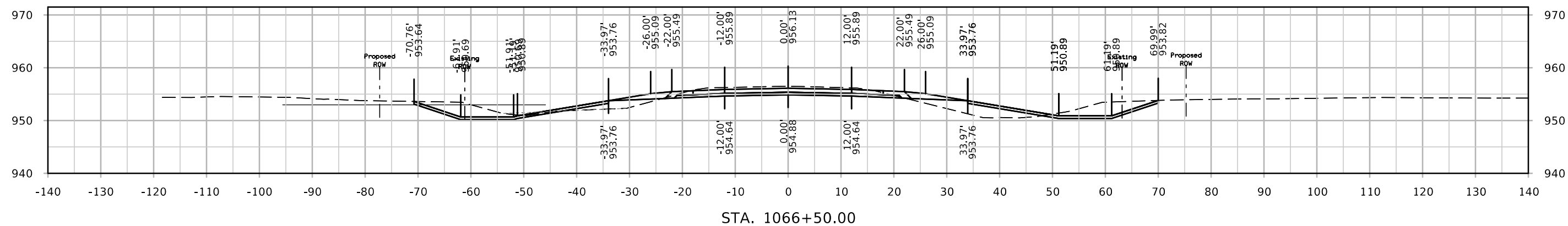


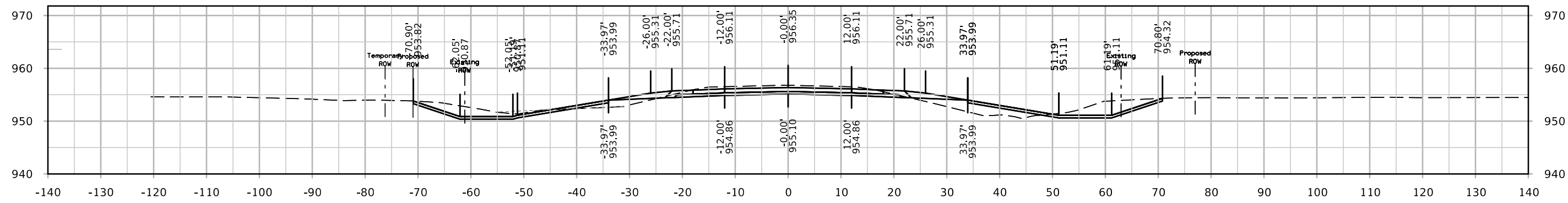
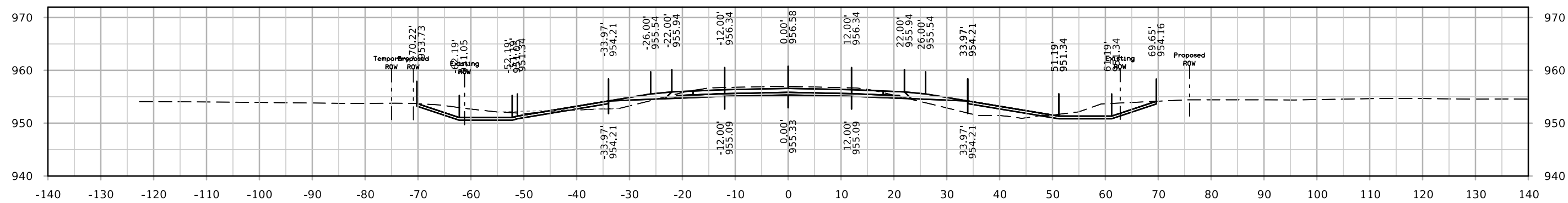
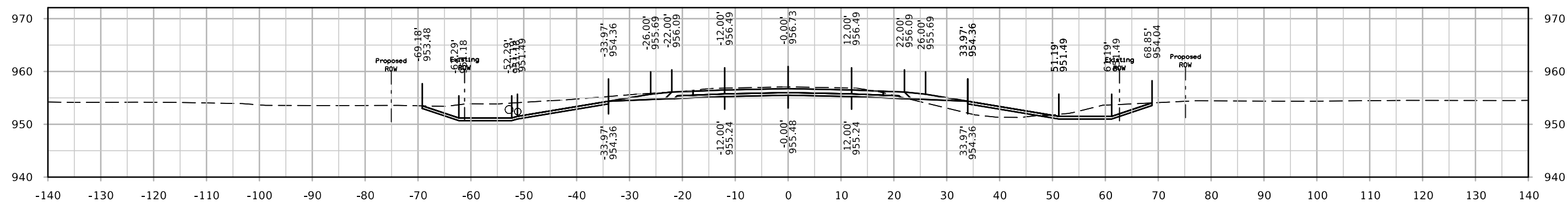


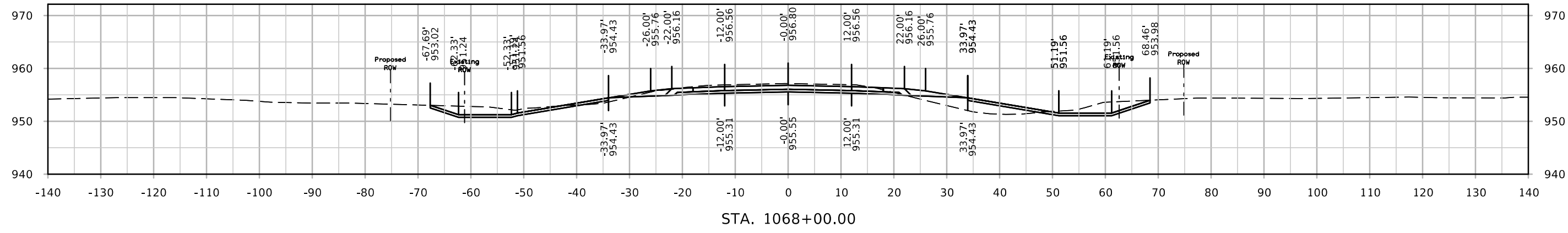
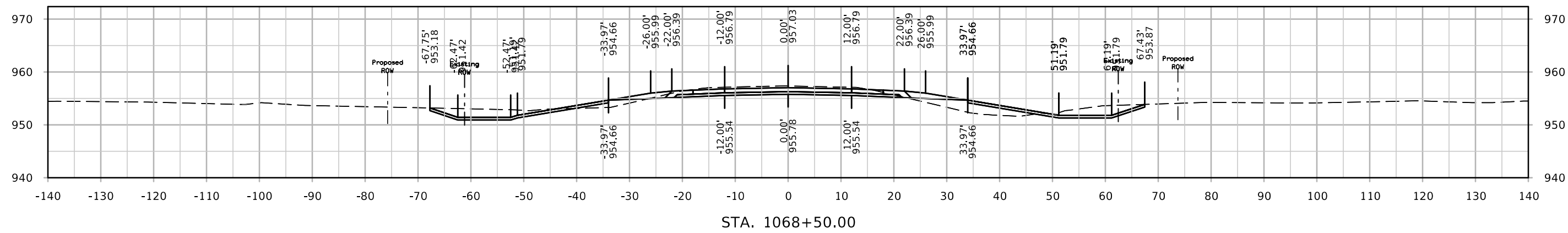
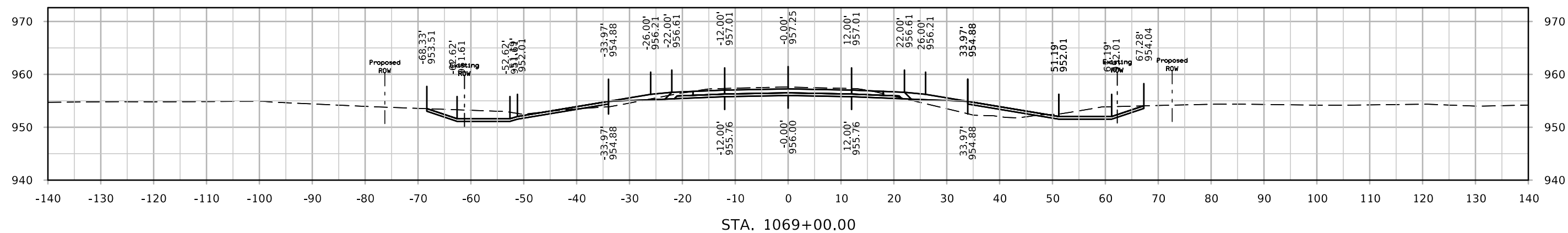


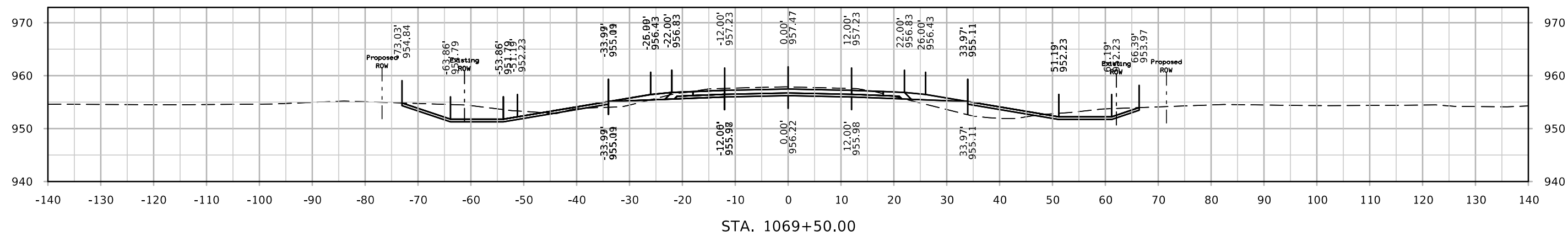
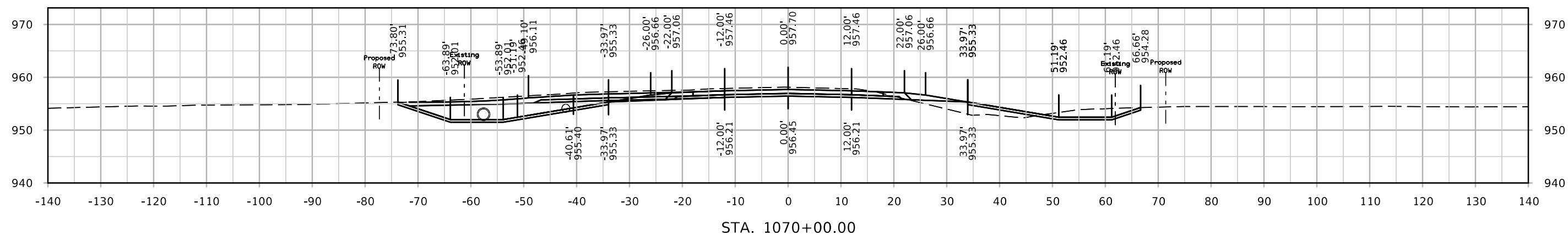
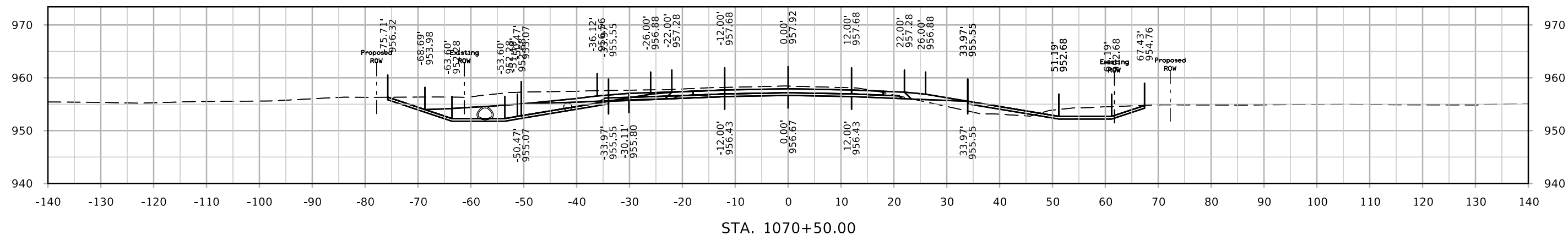


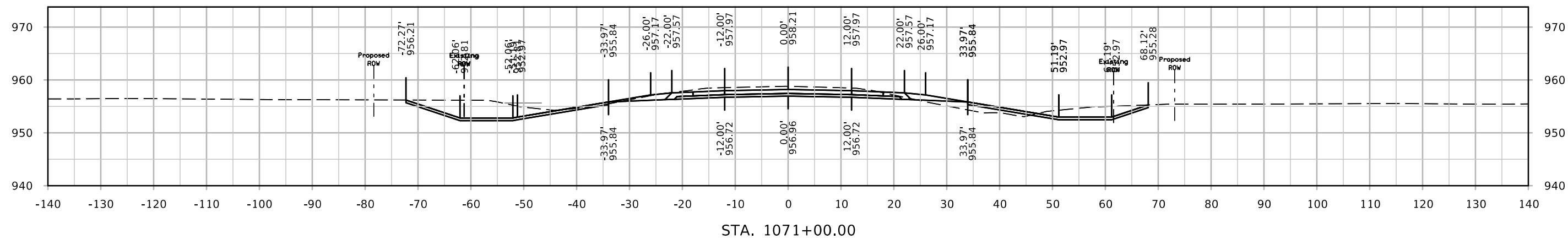
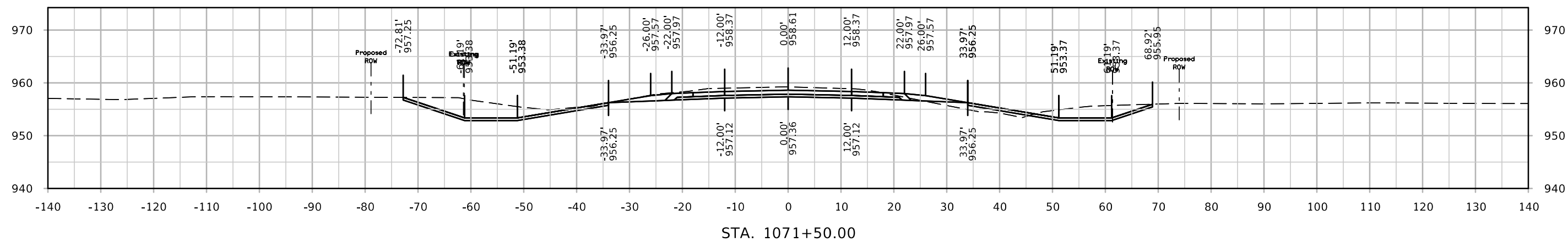
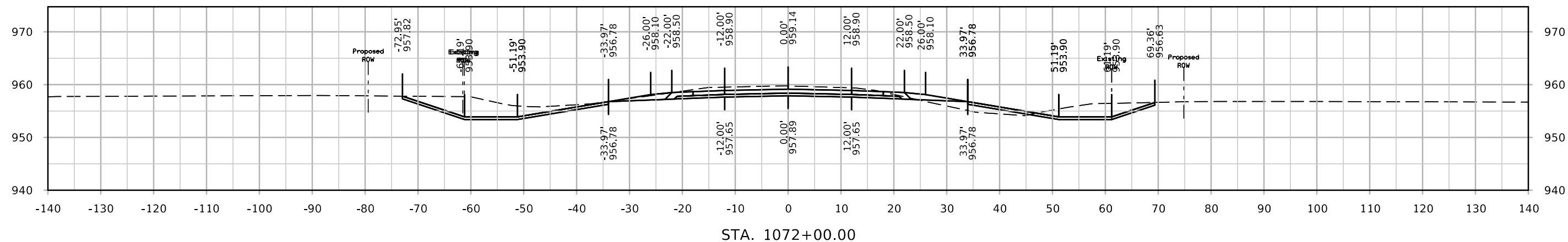


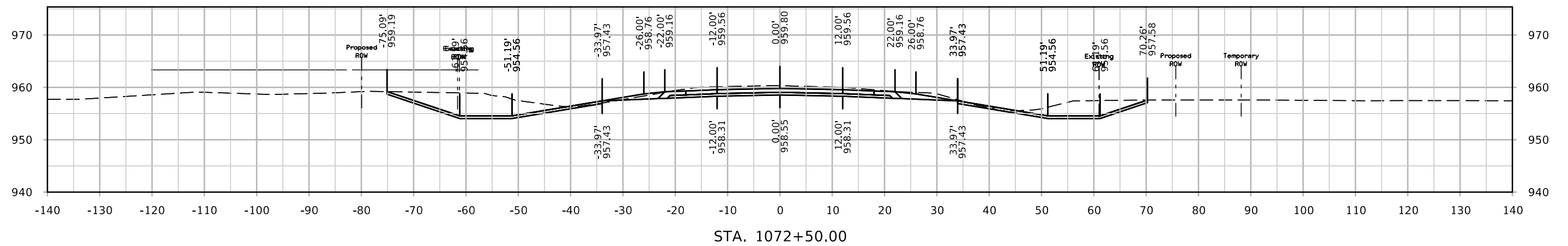
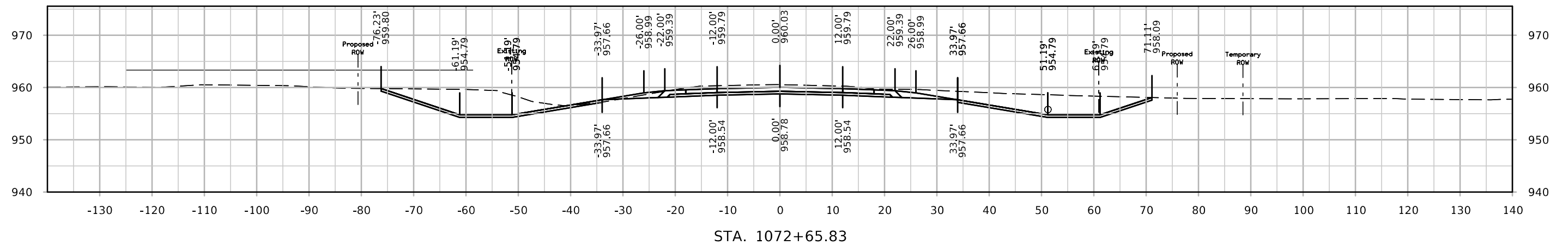
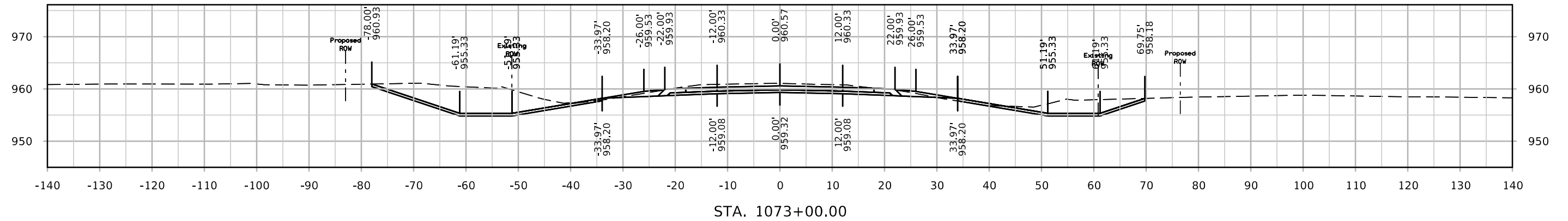


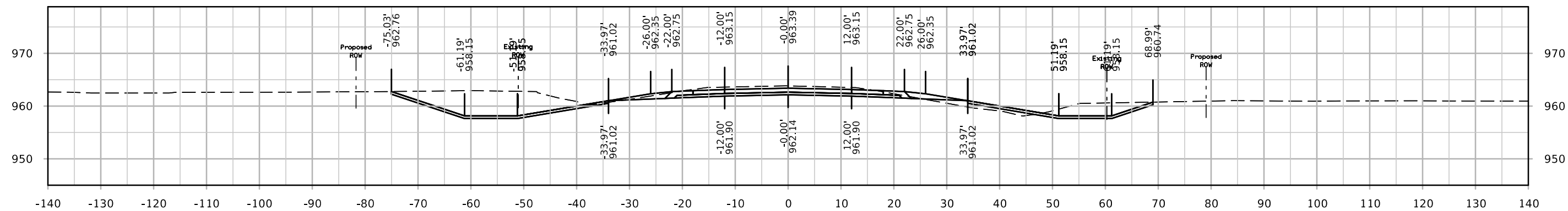




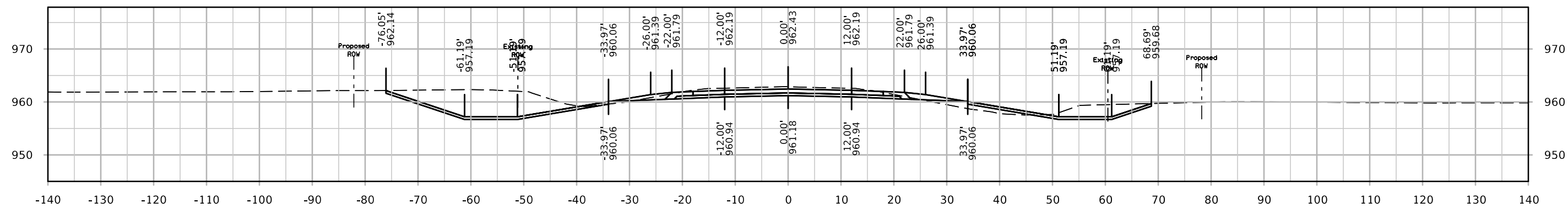




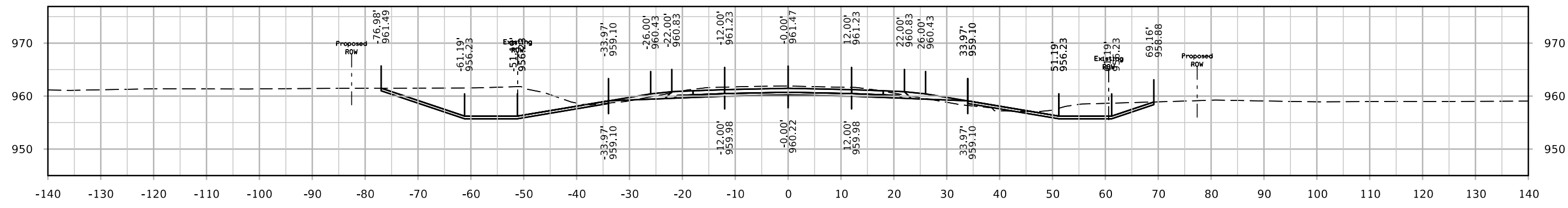




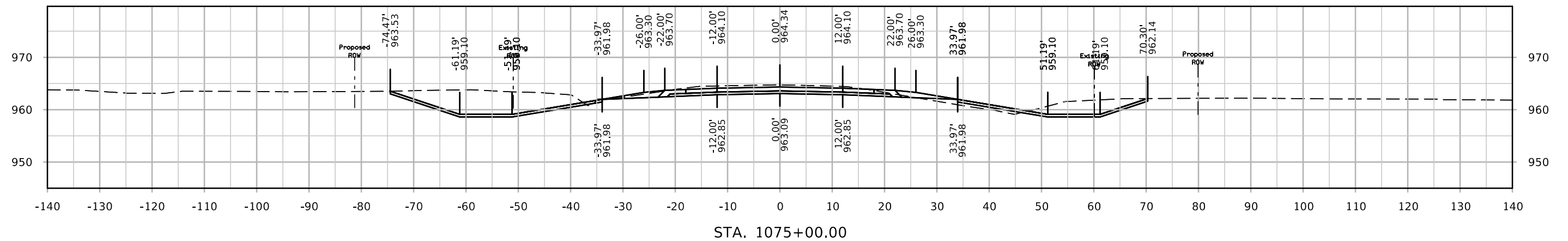
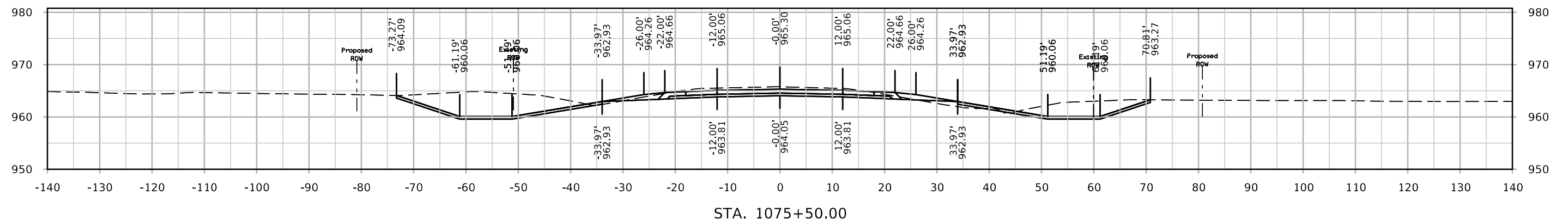
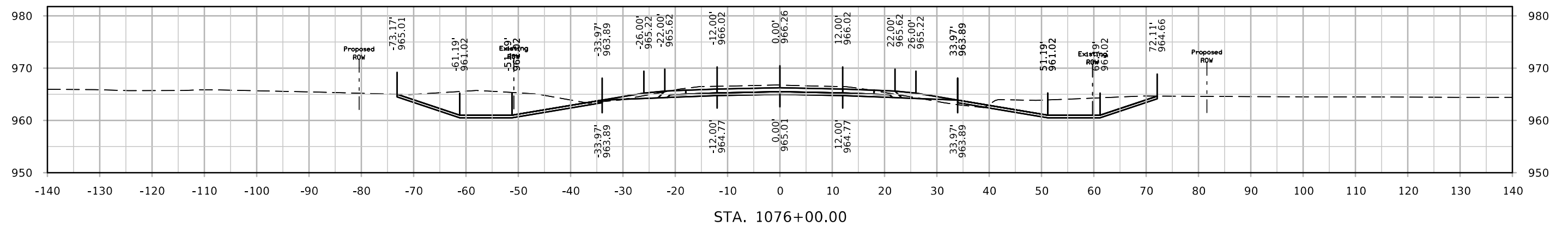
STA. 1074+50.00

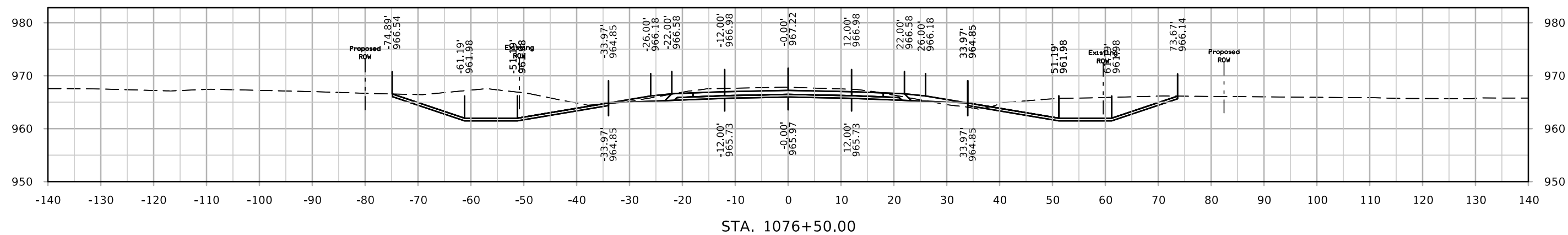
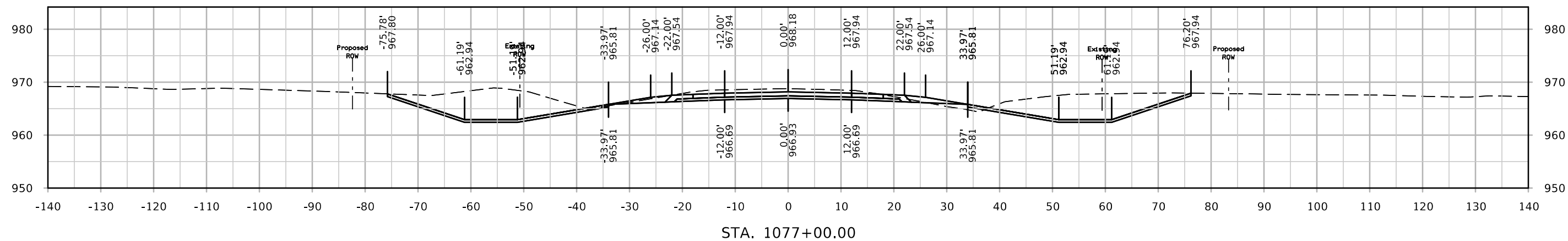
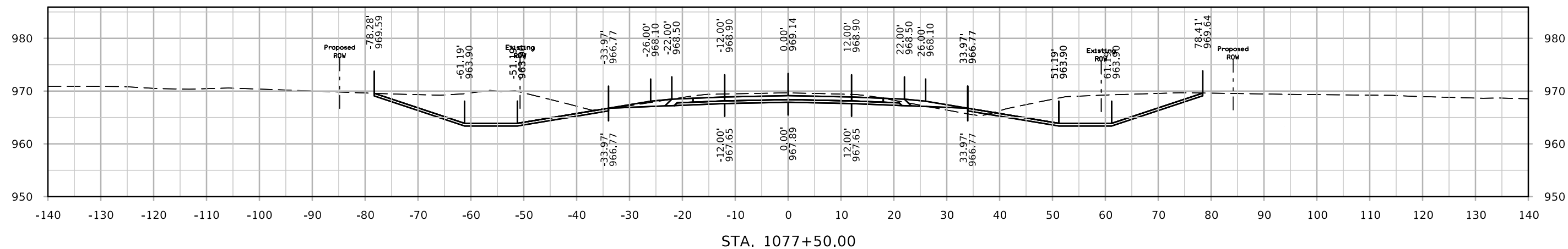


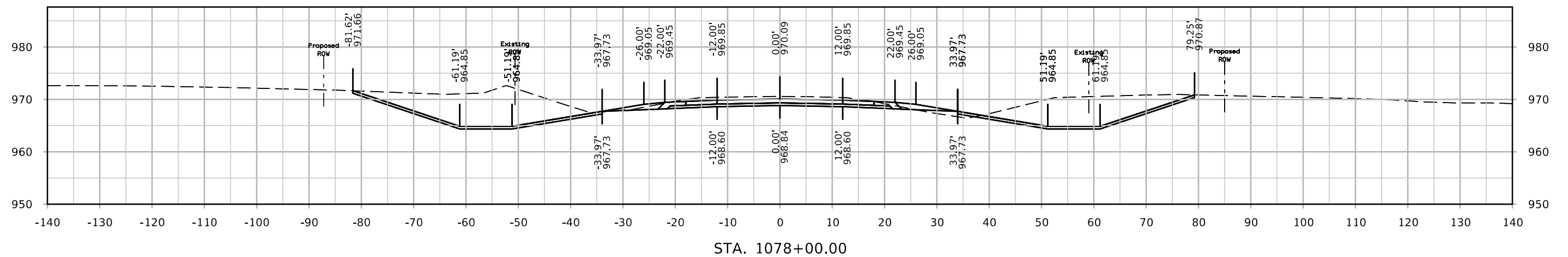
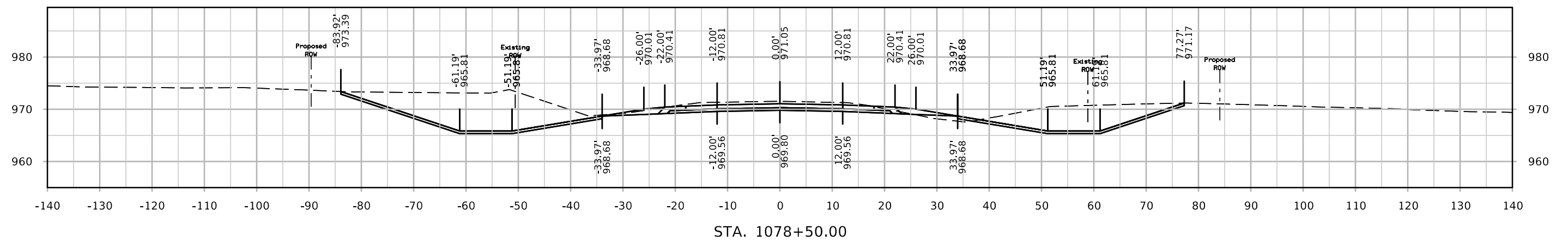
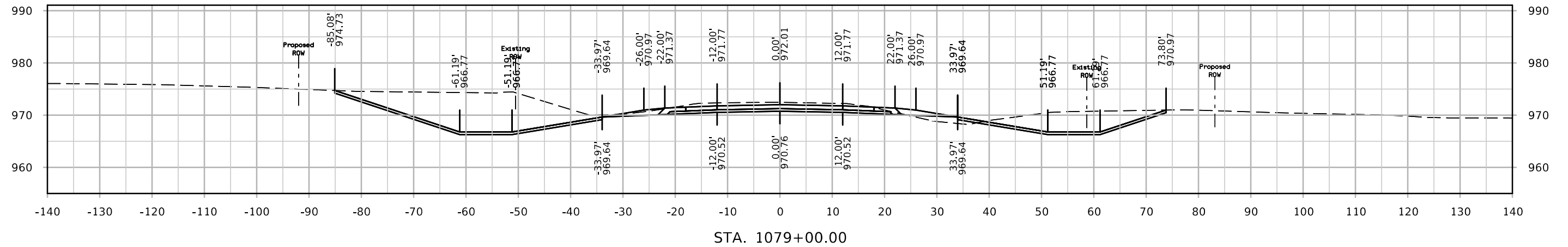
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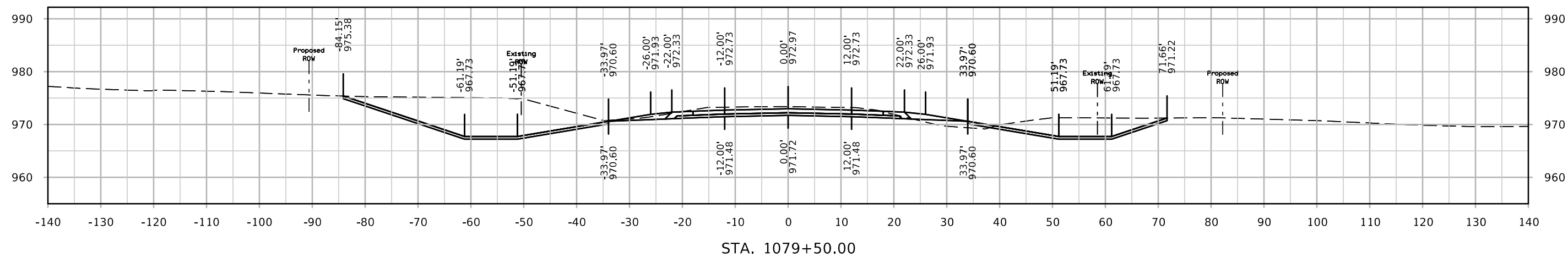
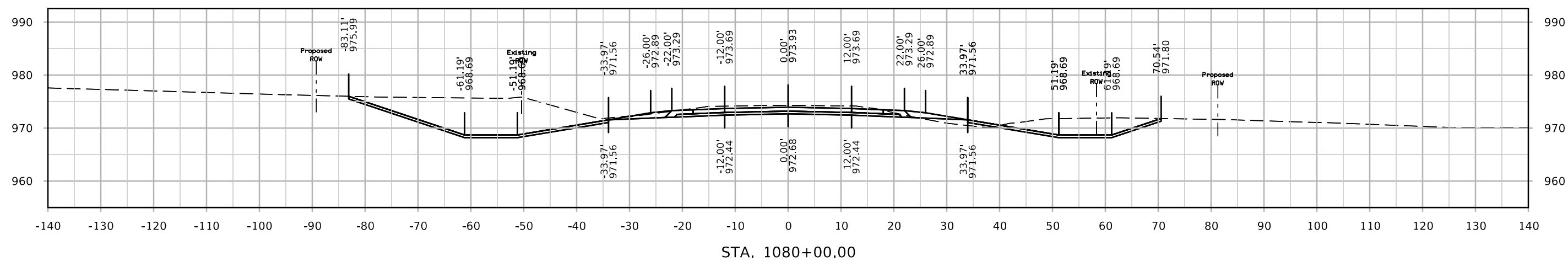
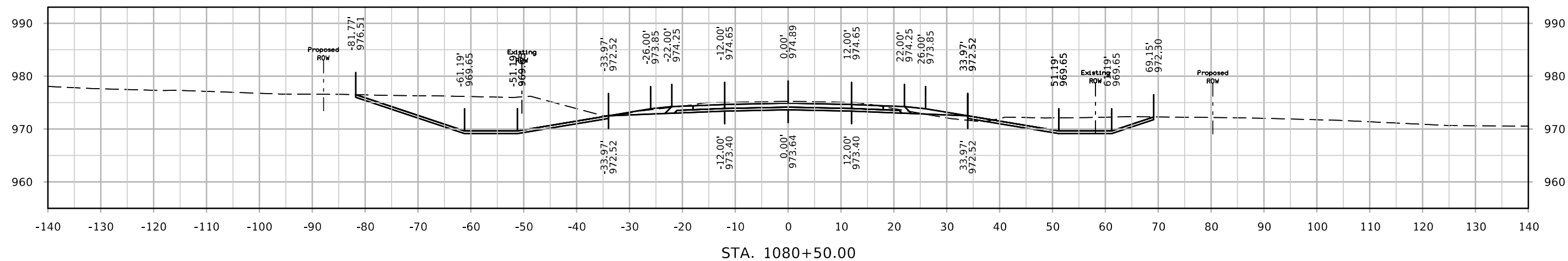


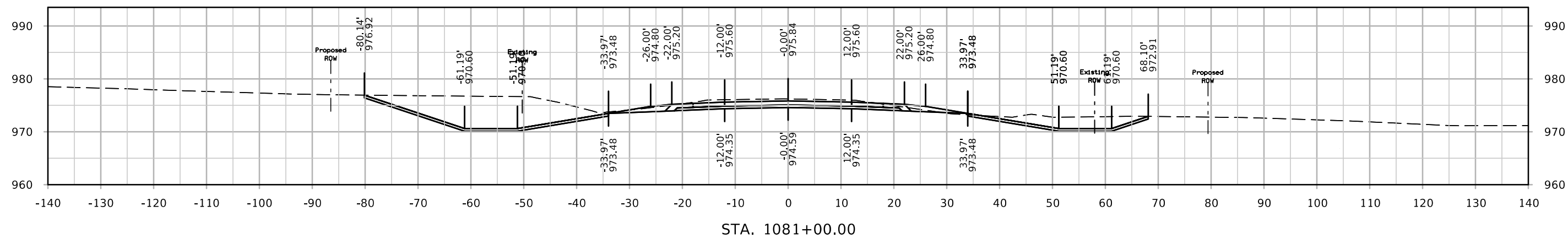
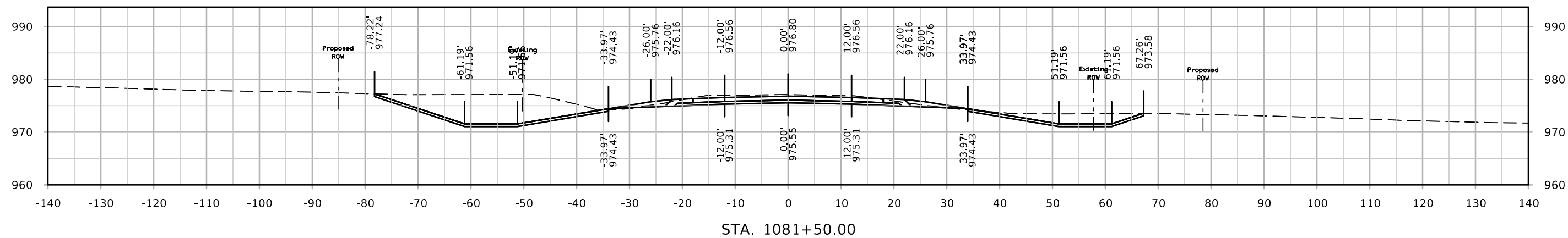
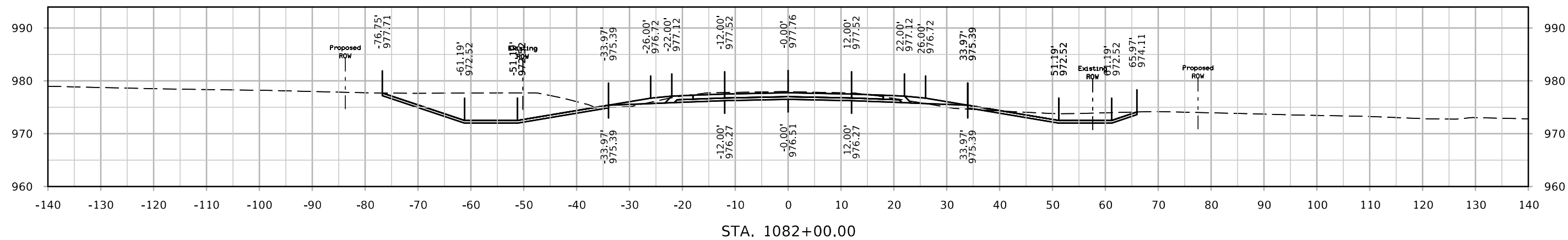
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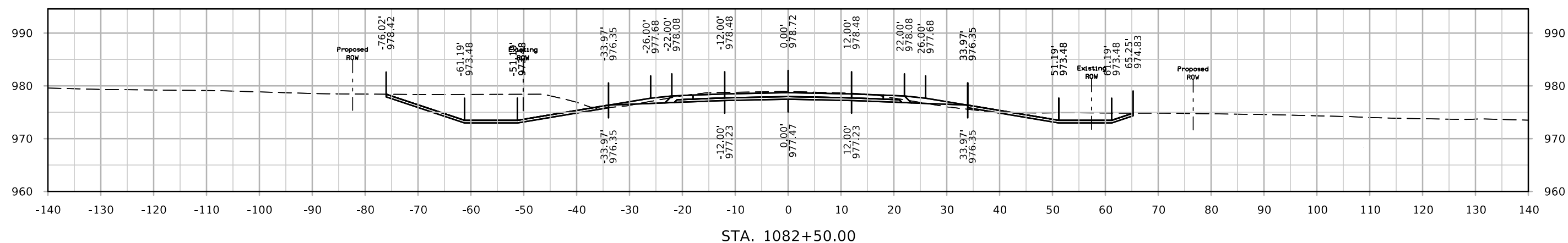
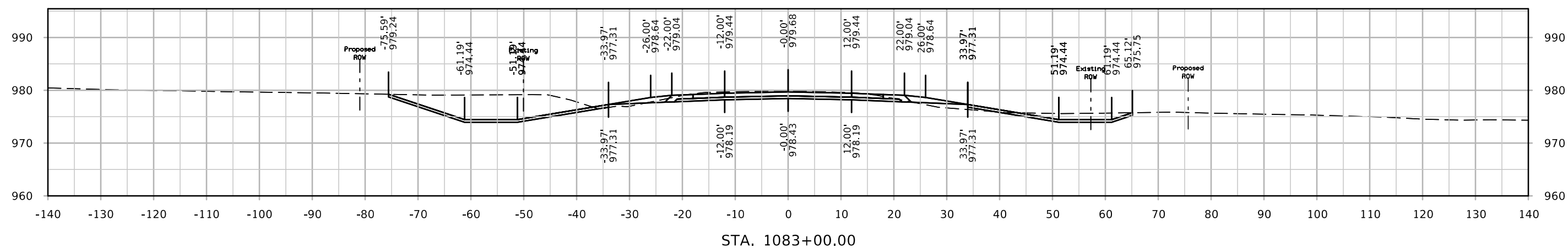
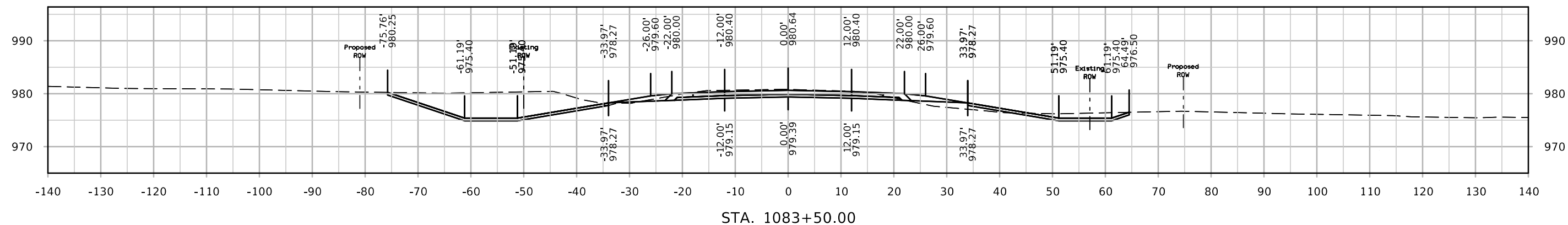


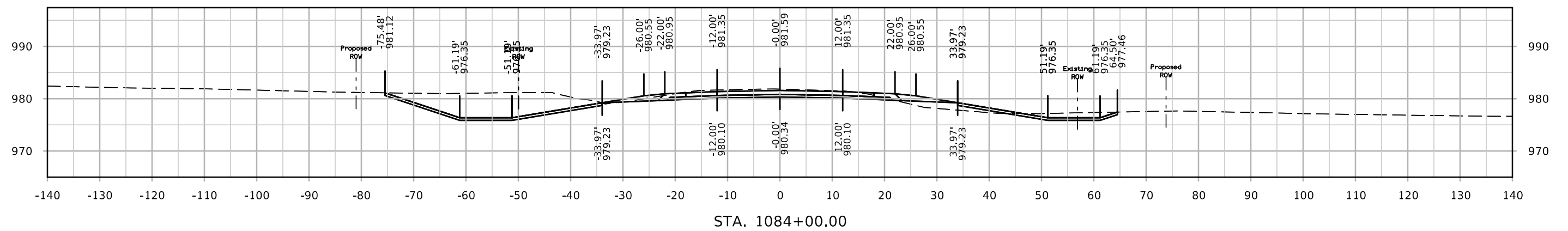
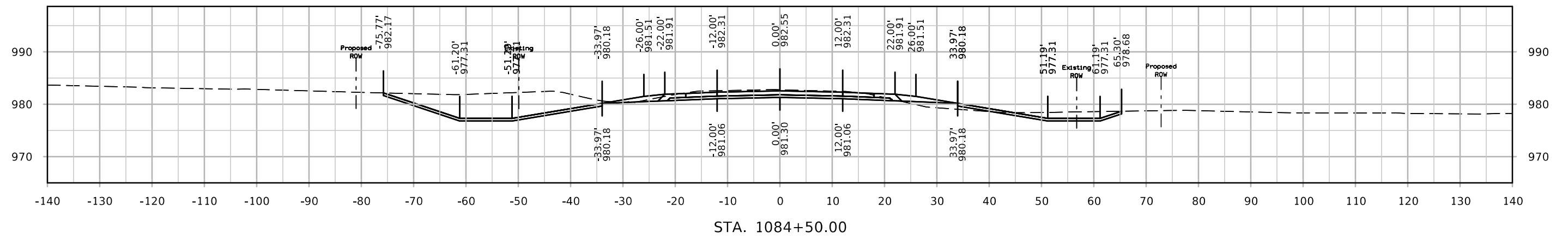
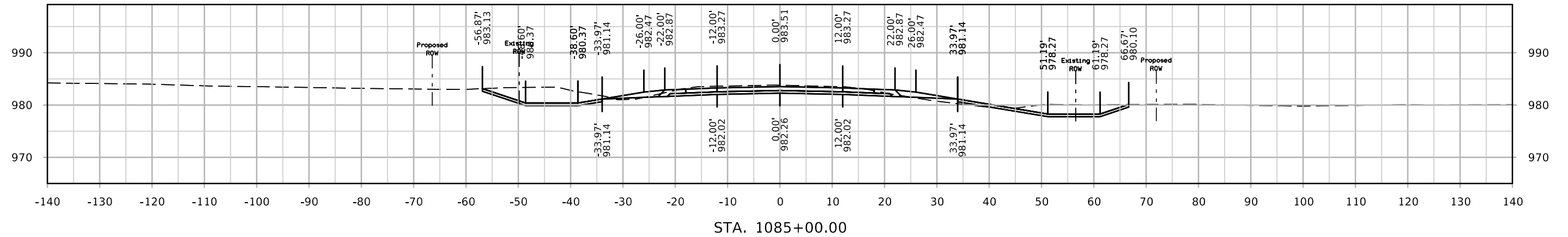


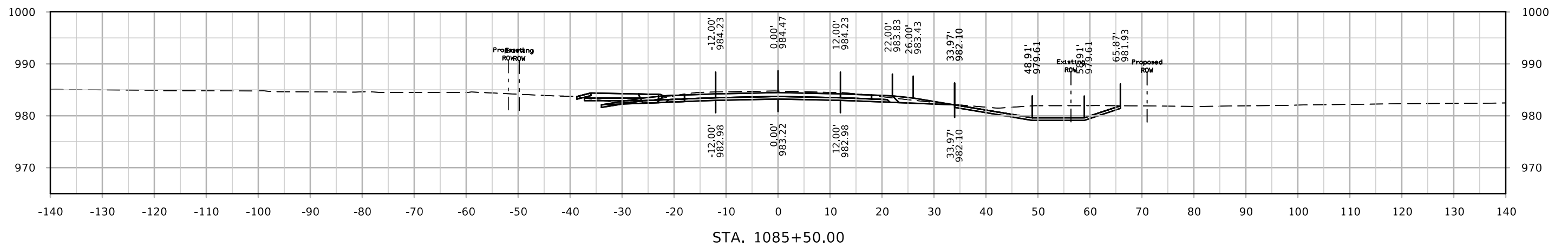
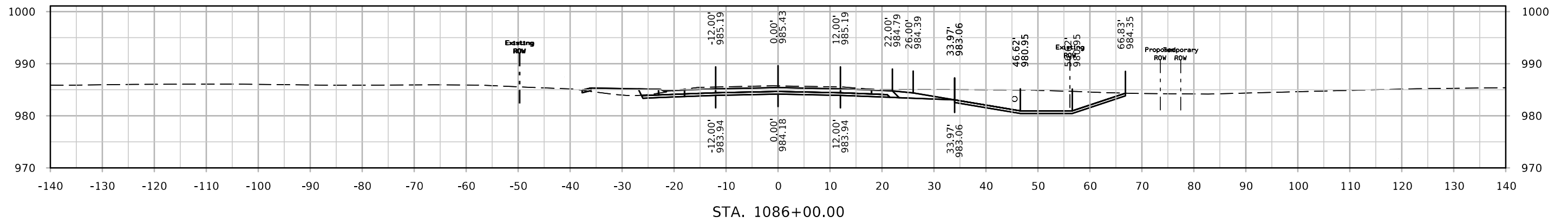
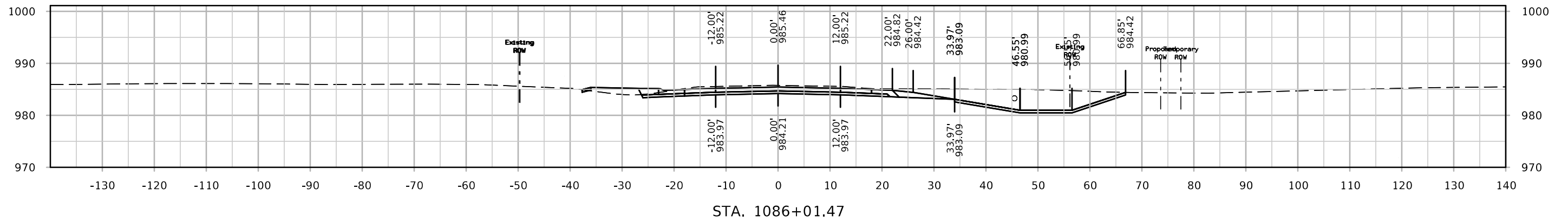


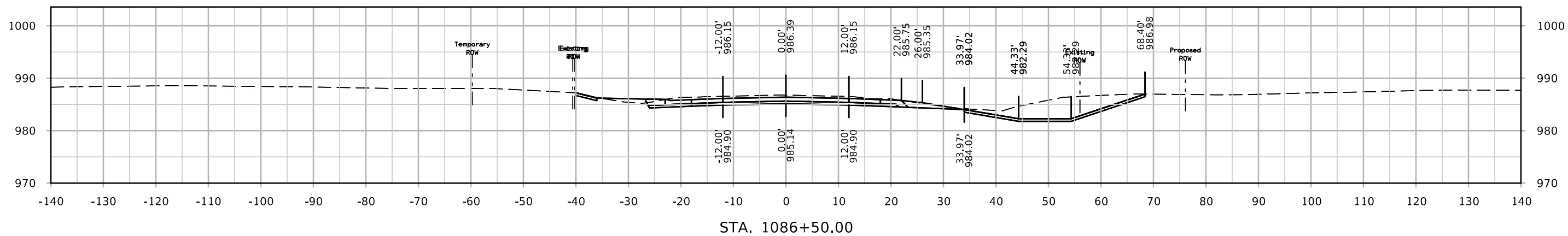
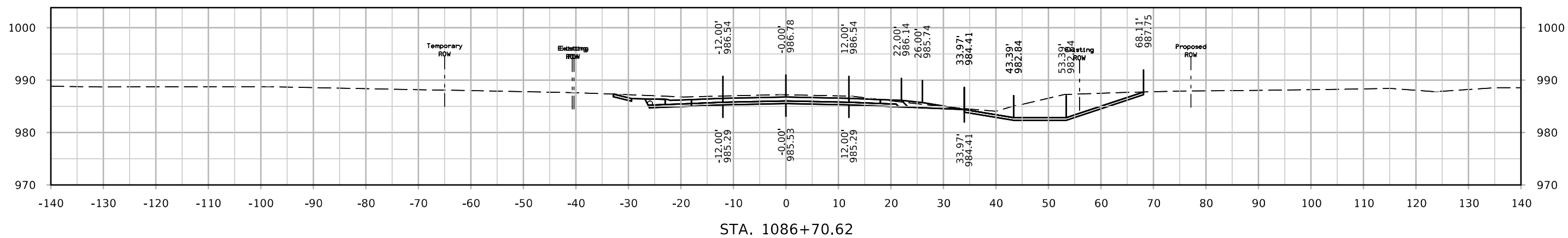
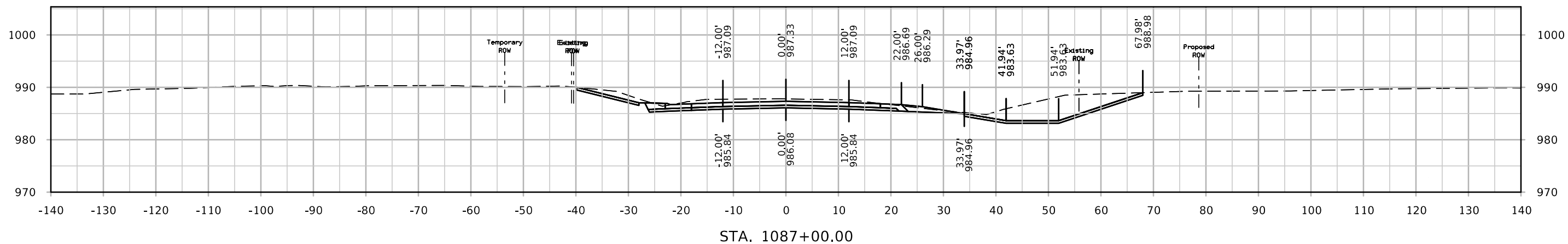


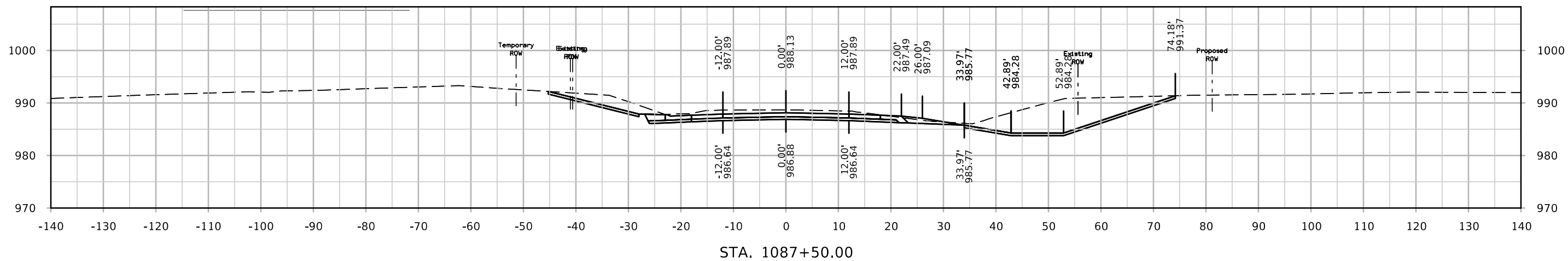
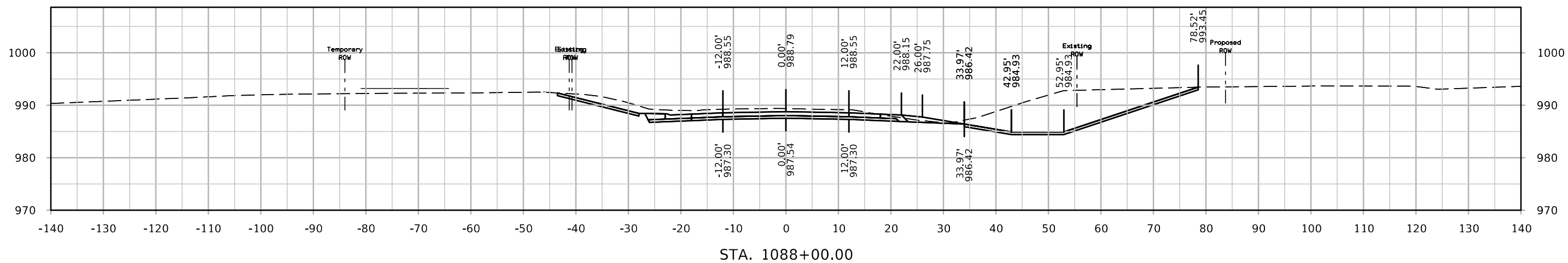
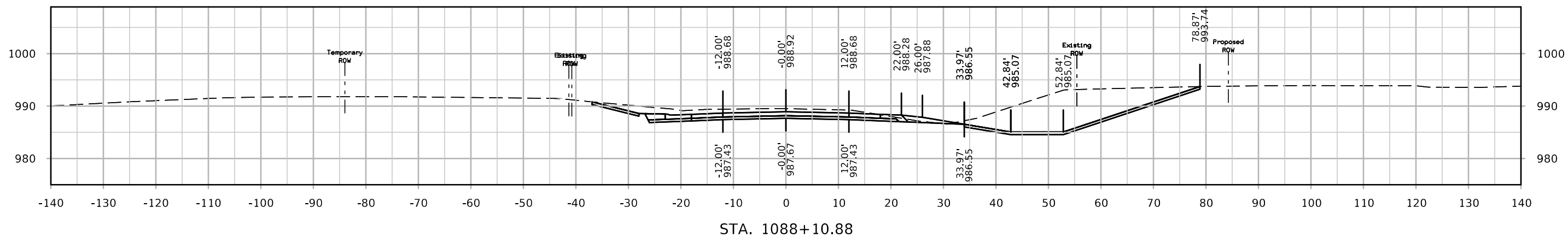


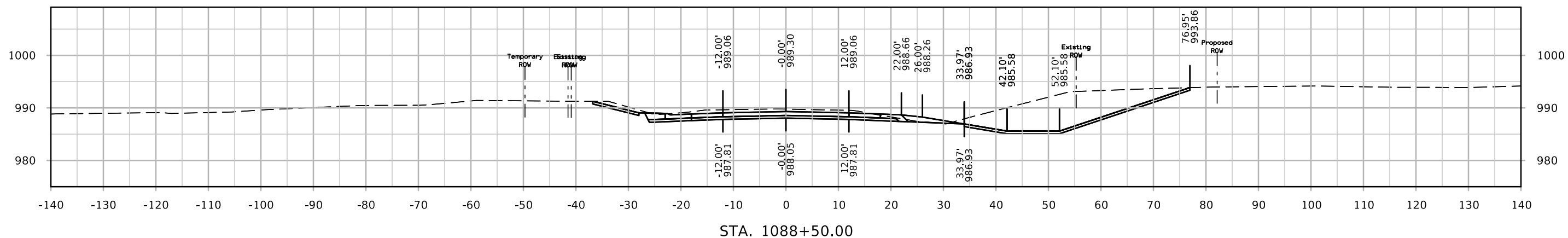
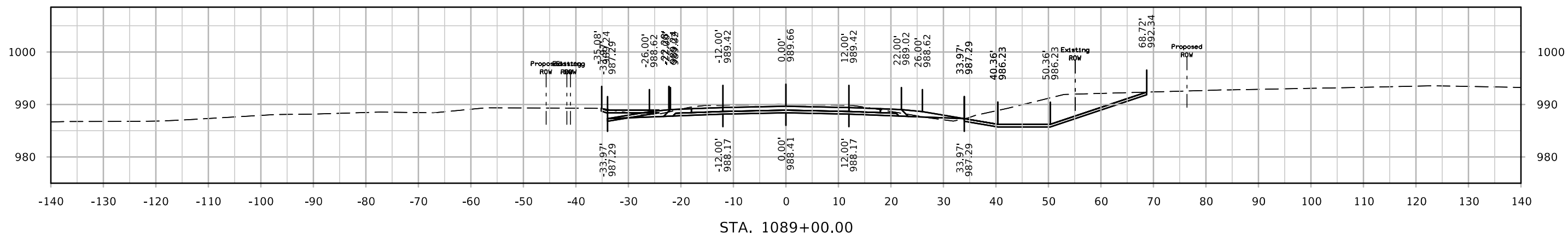
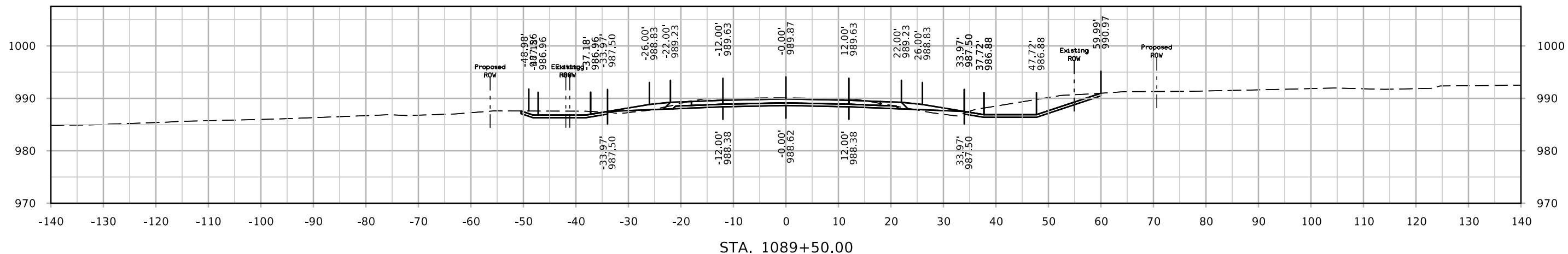


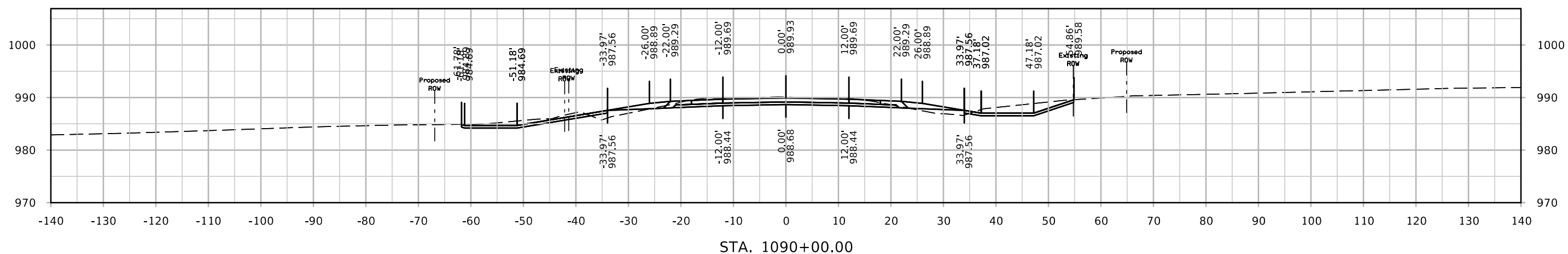
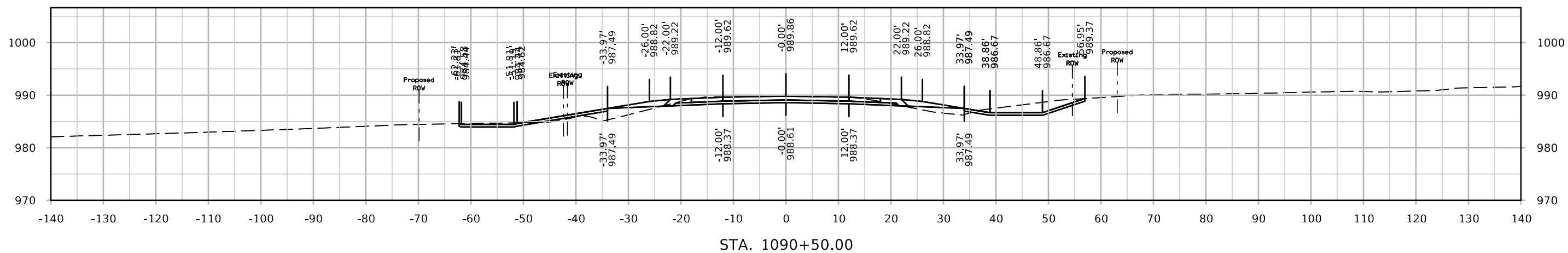
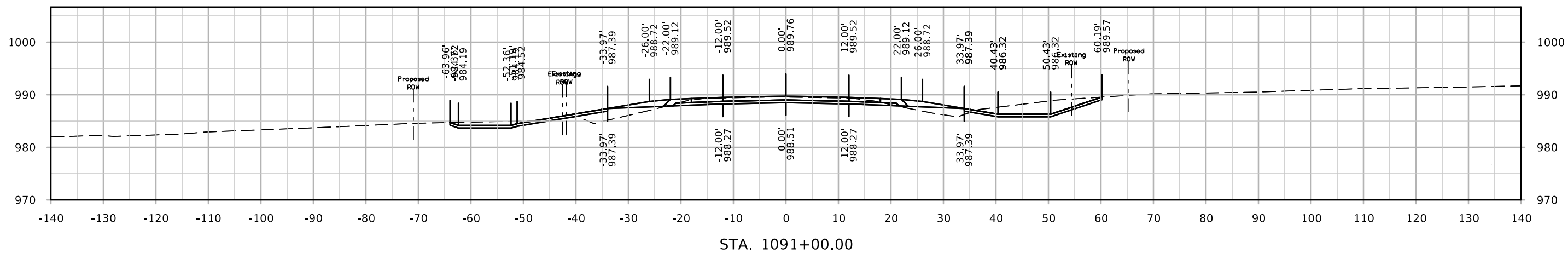


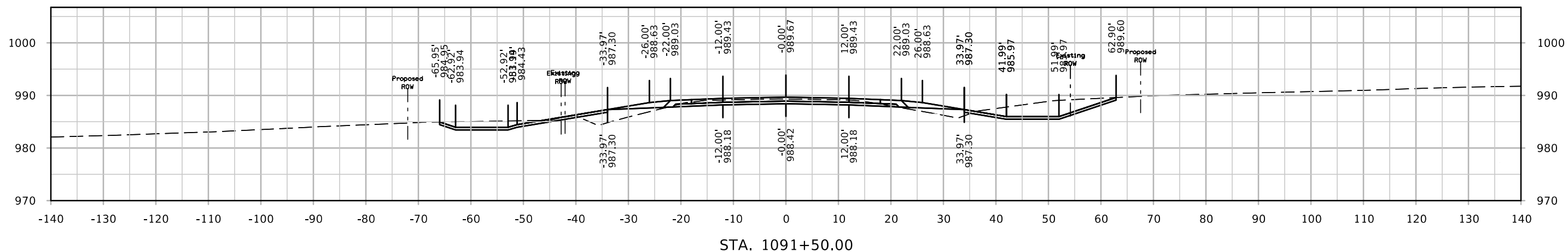
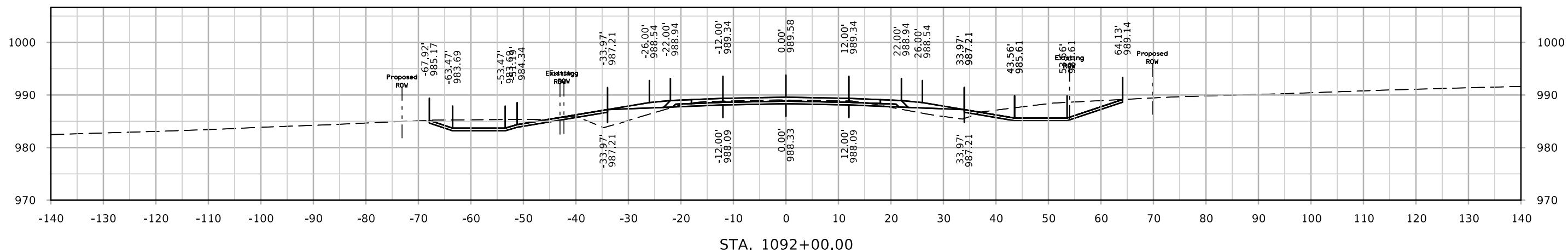
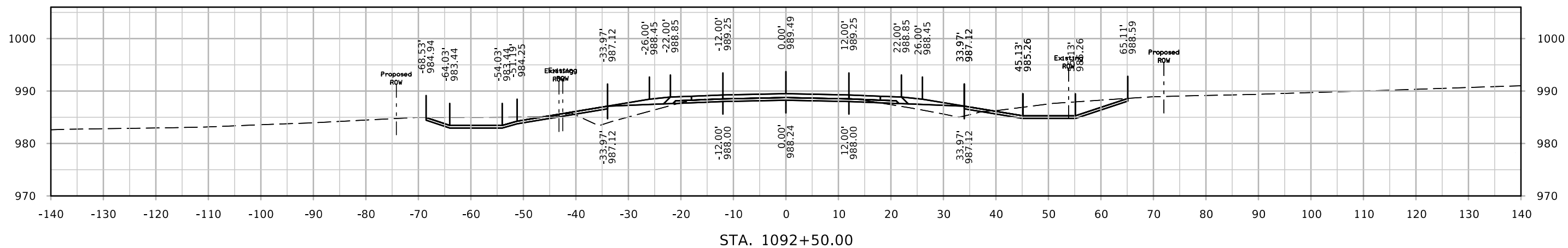


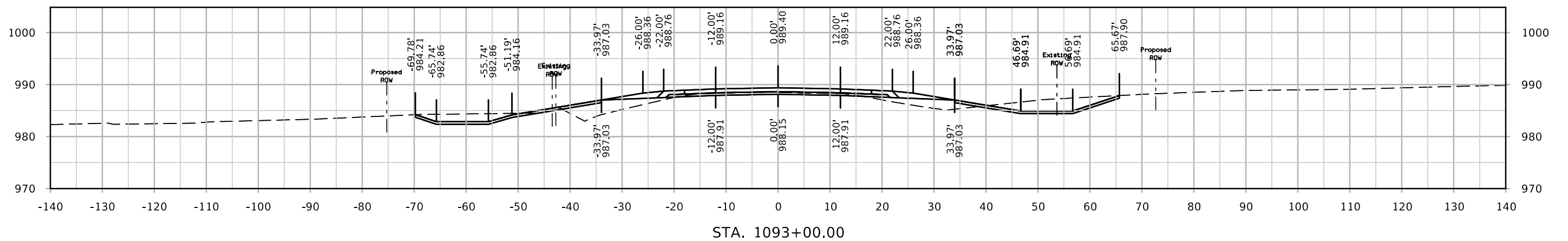
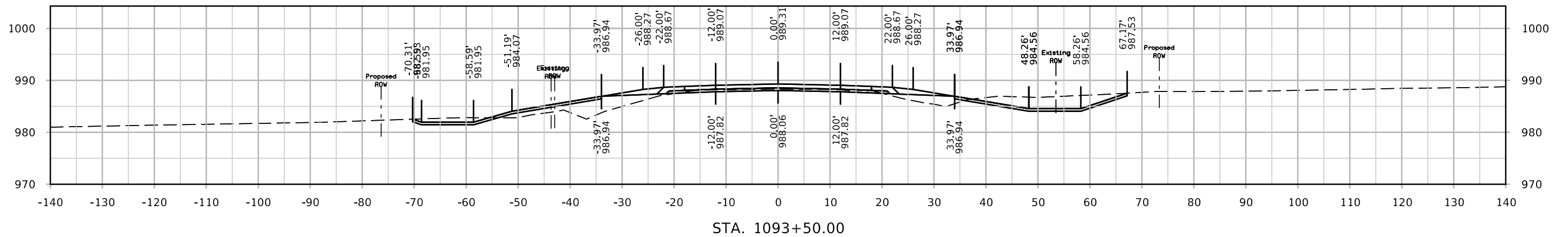
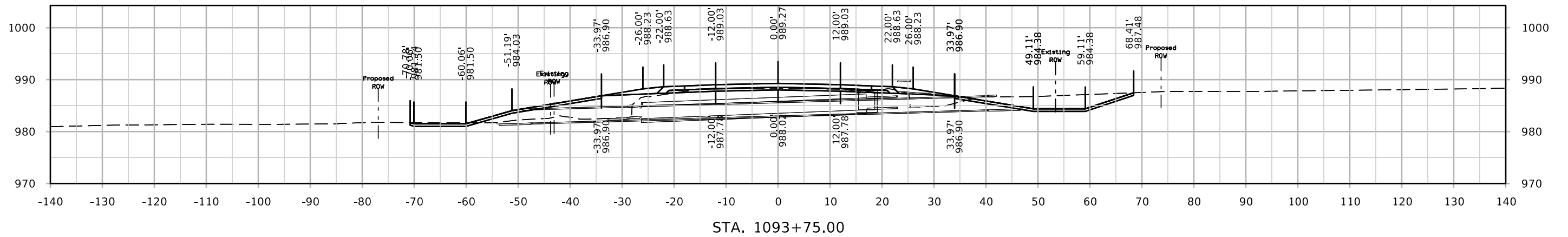


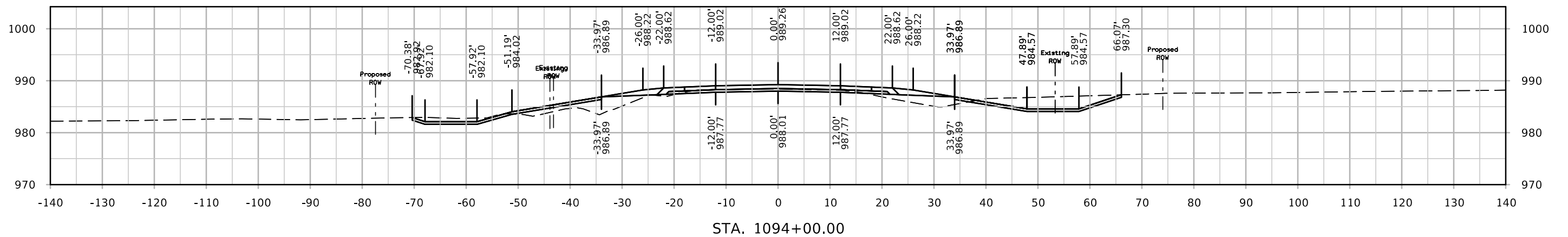
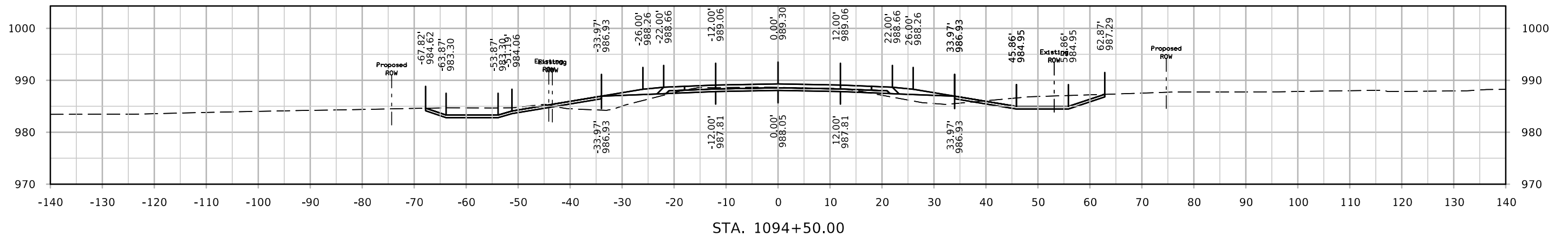
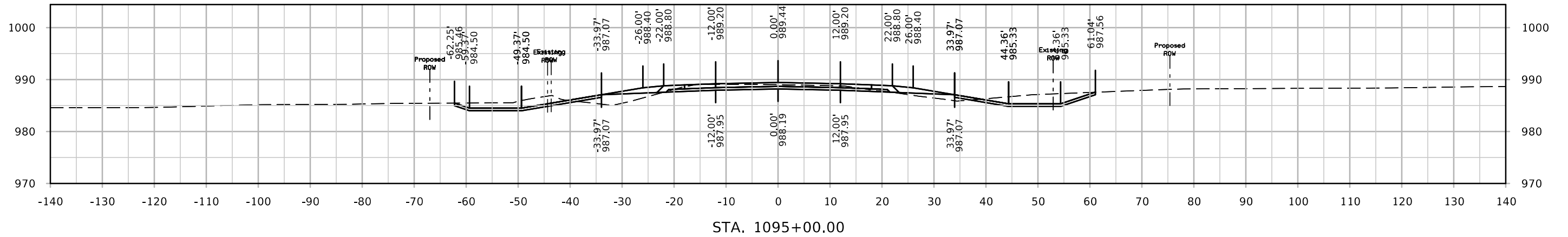


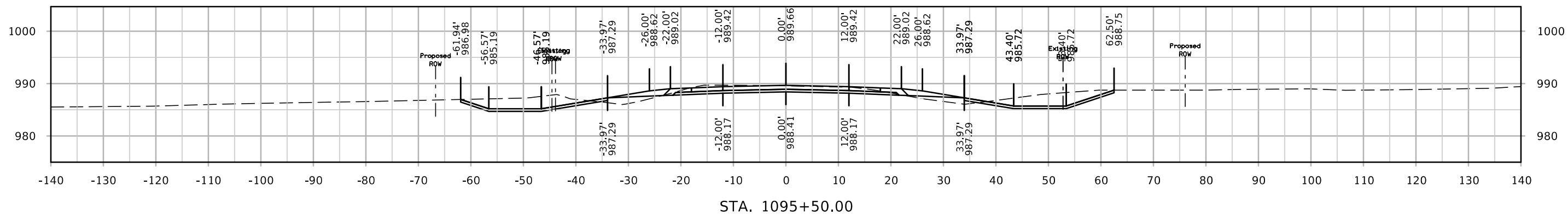
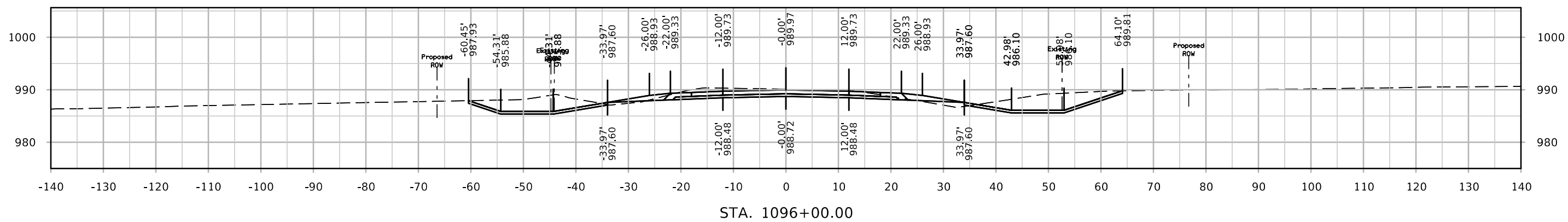
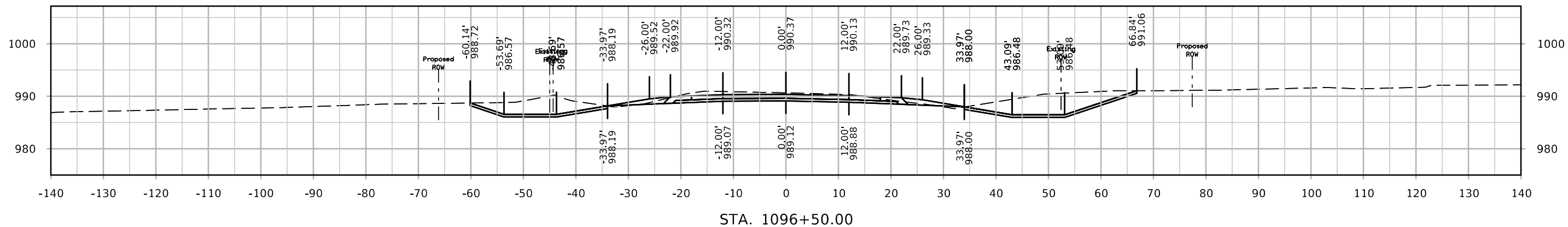


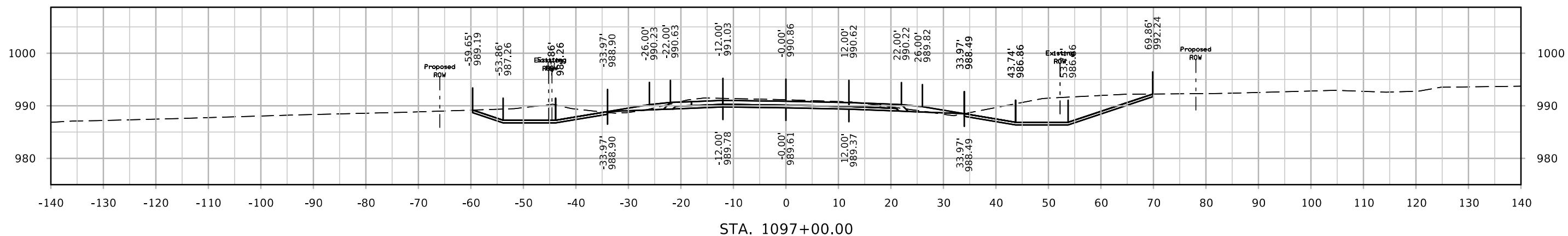
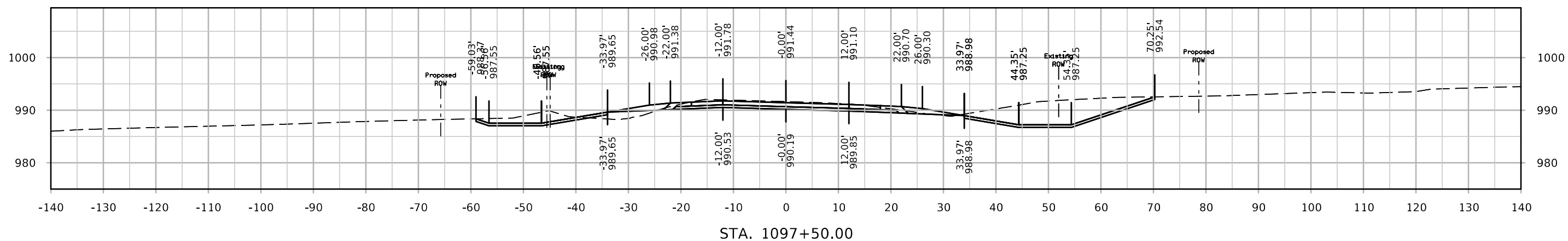
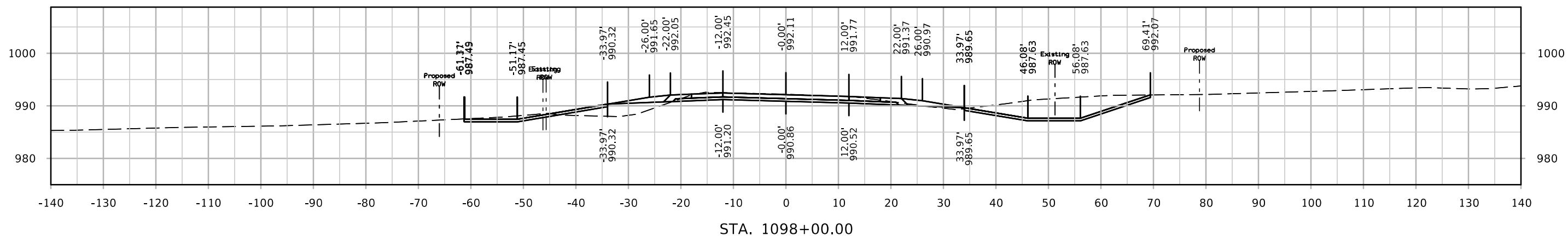


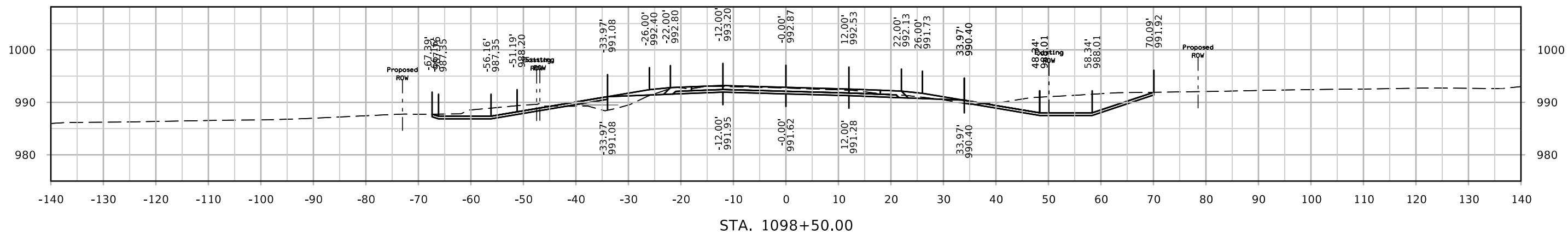
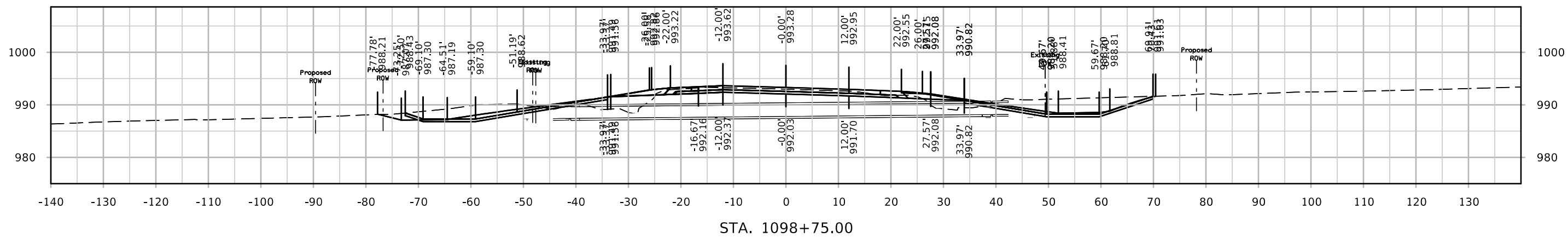
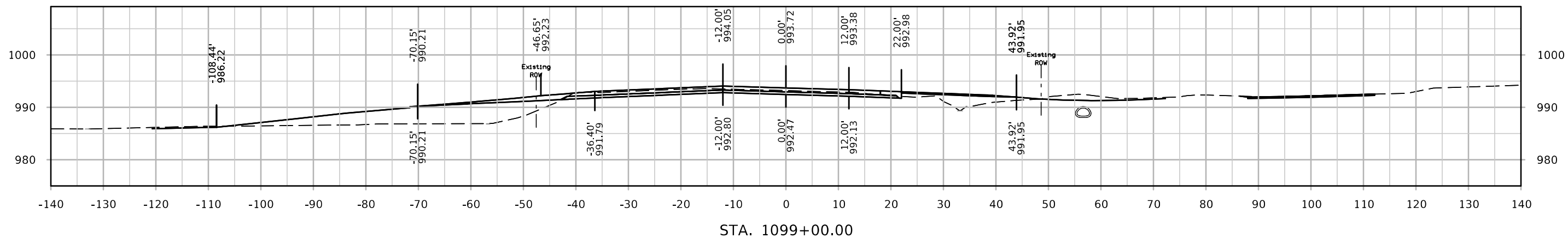


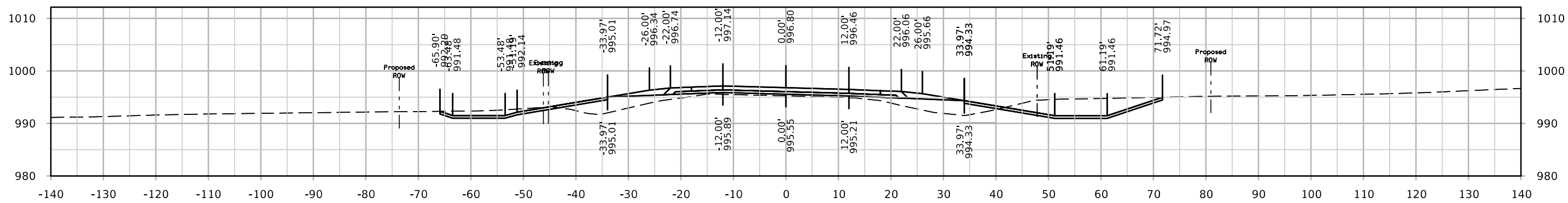




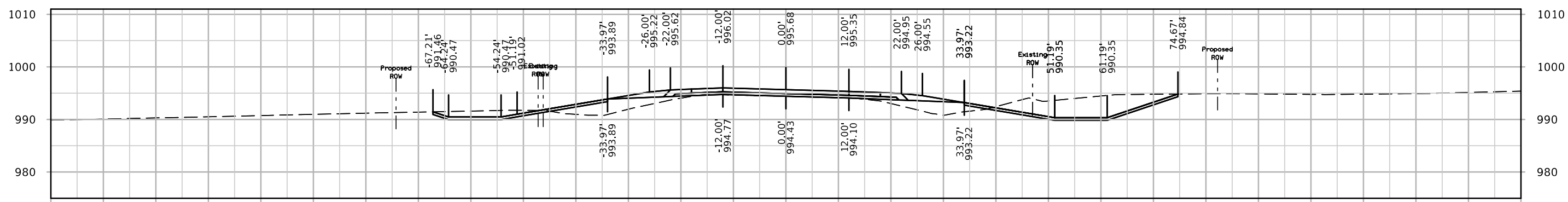




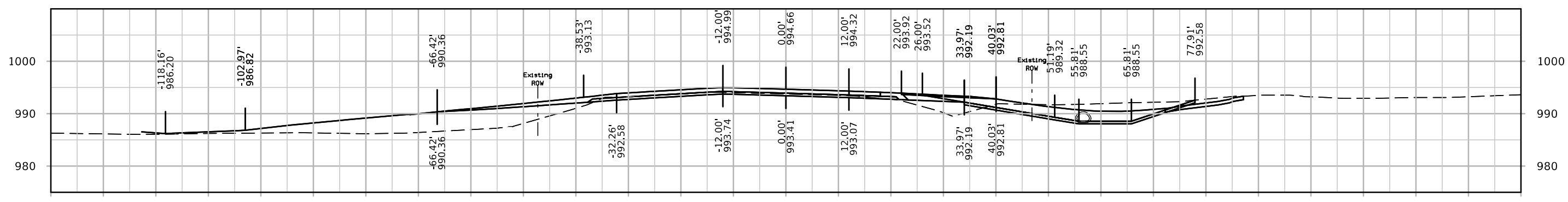




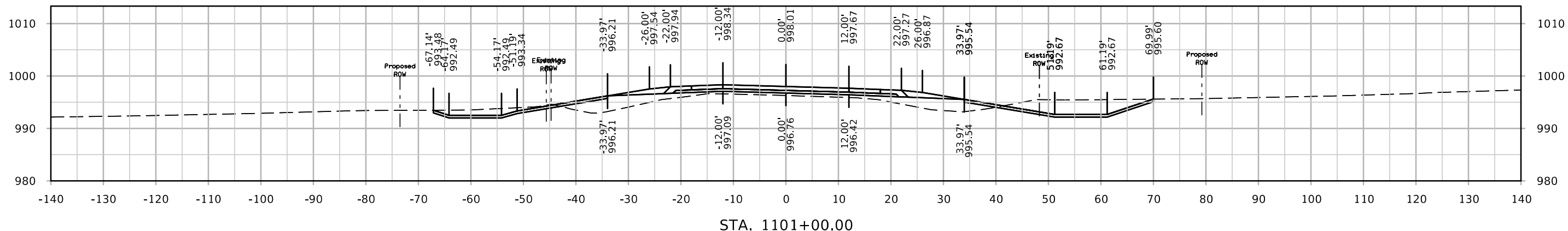
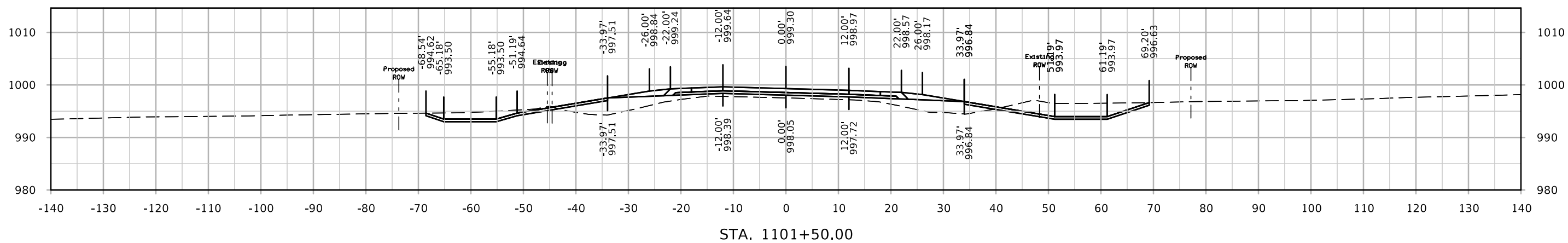
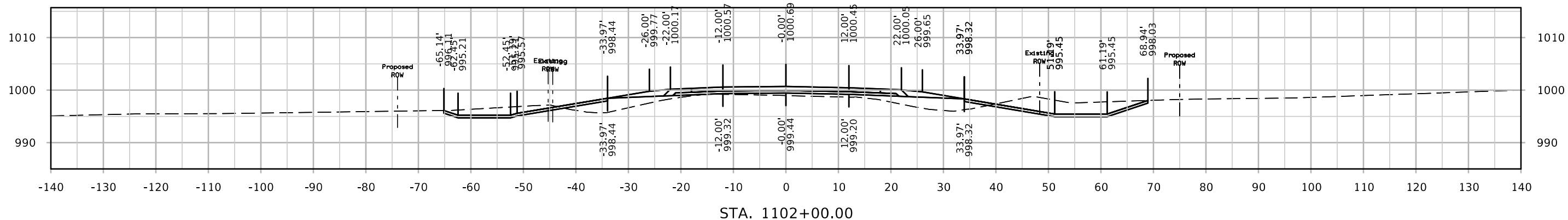
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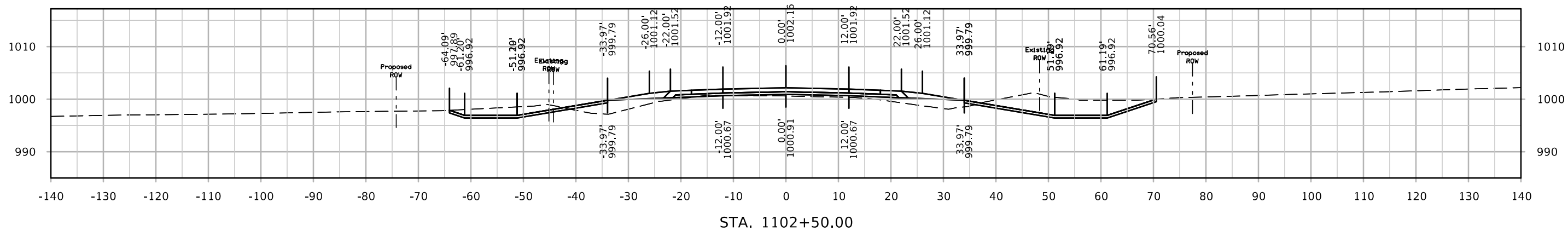
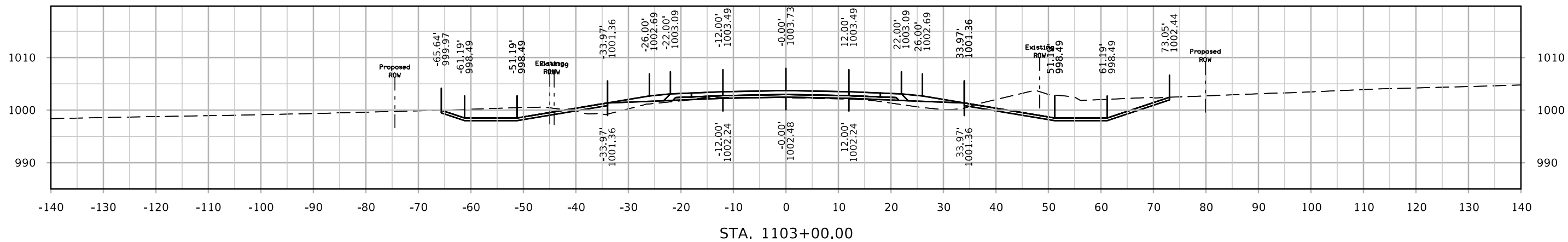
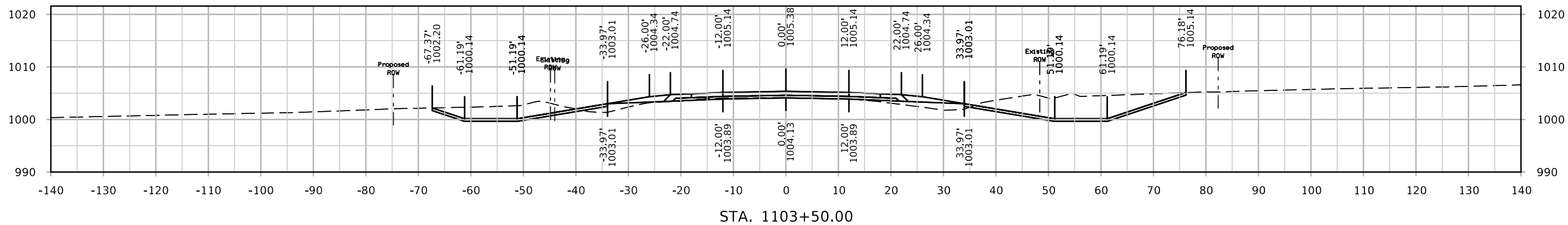


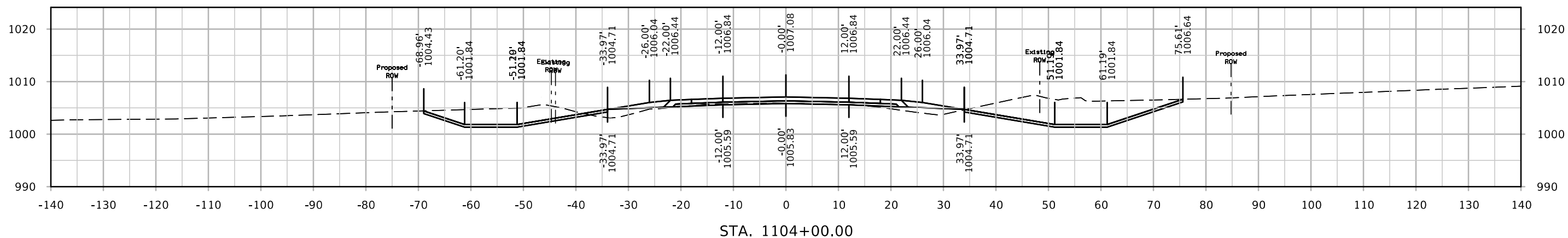
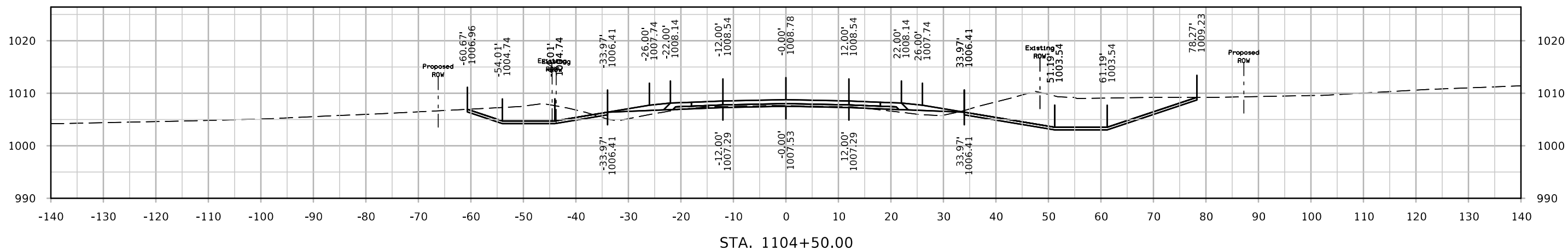
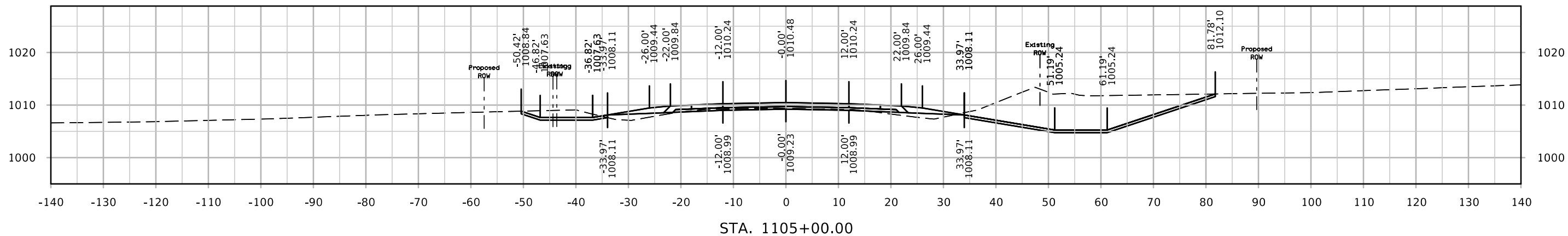
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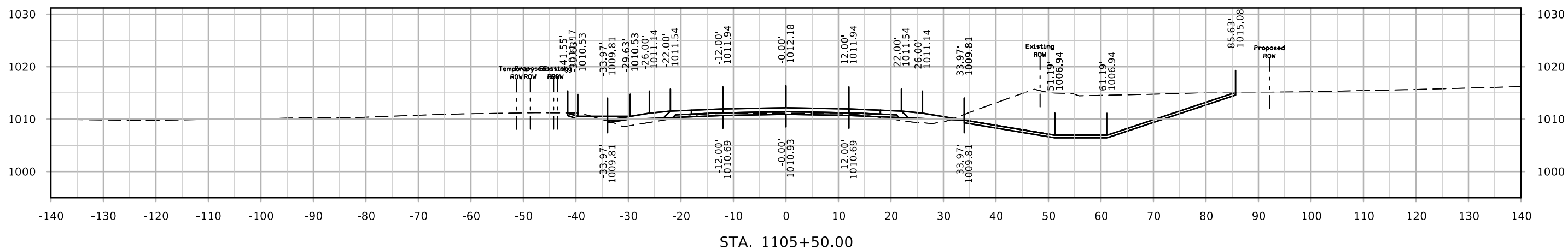
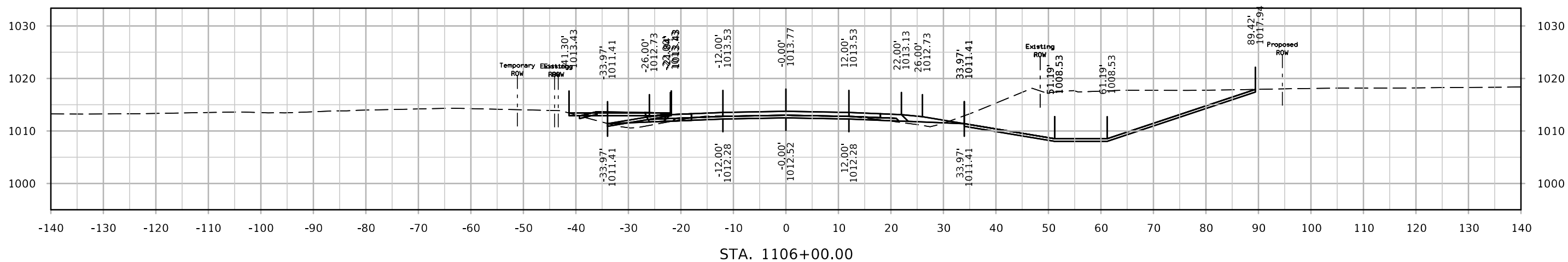
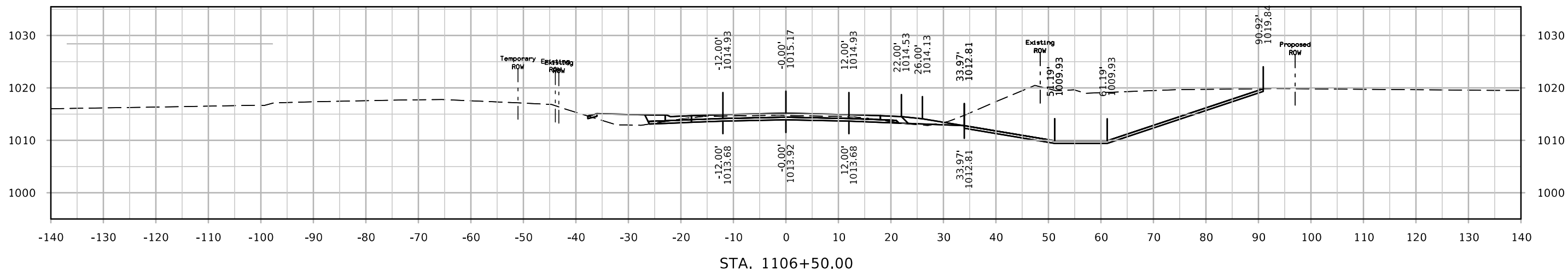


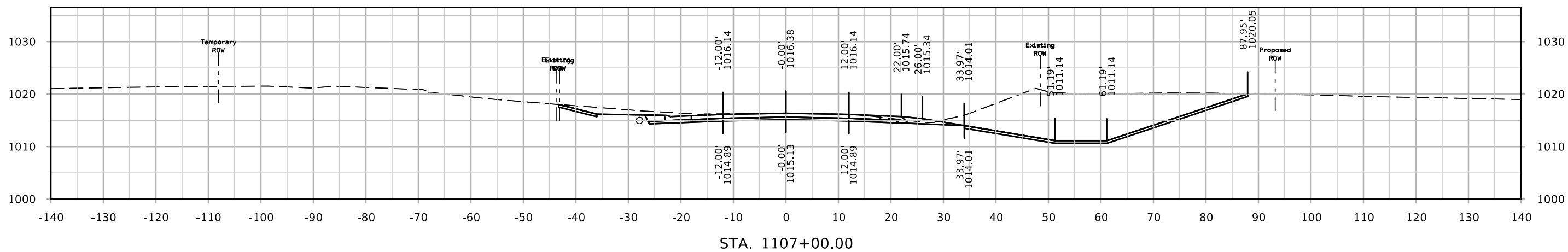
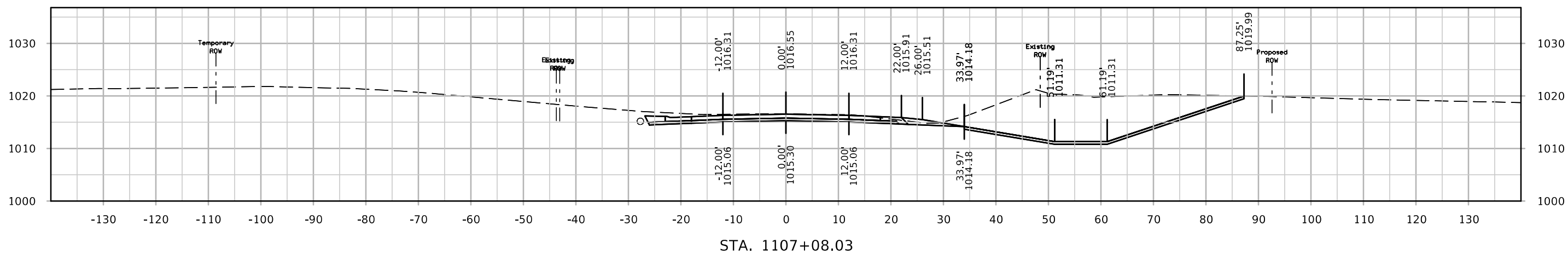
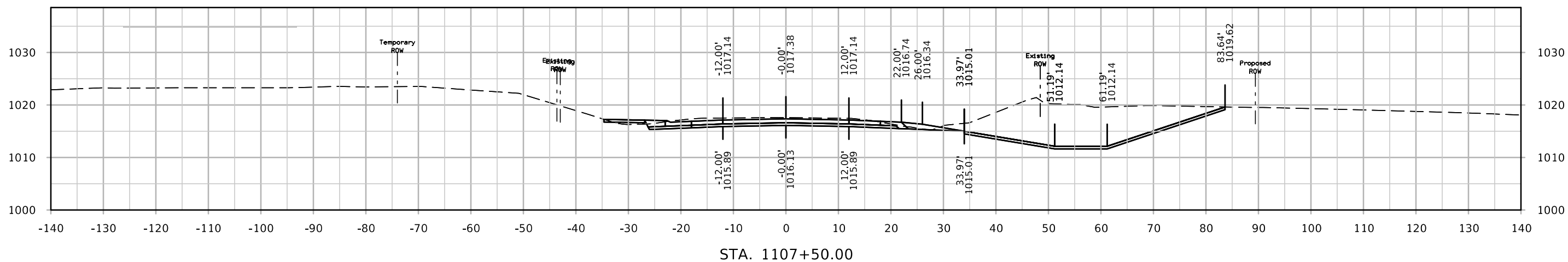
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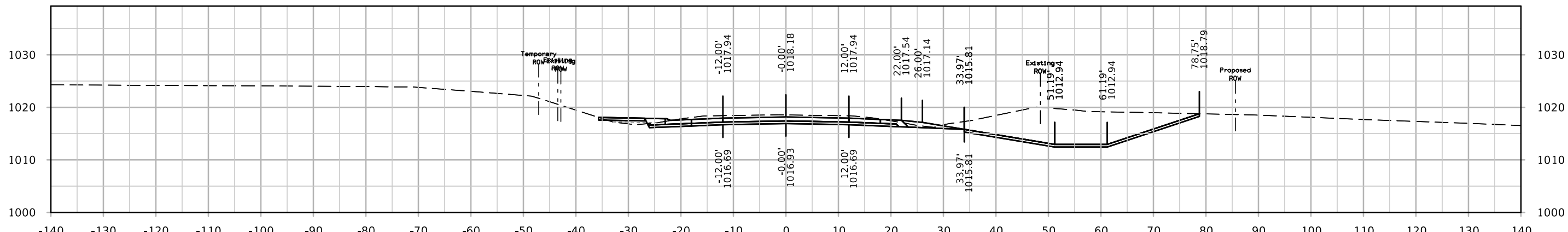
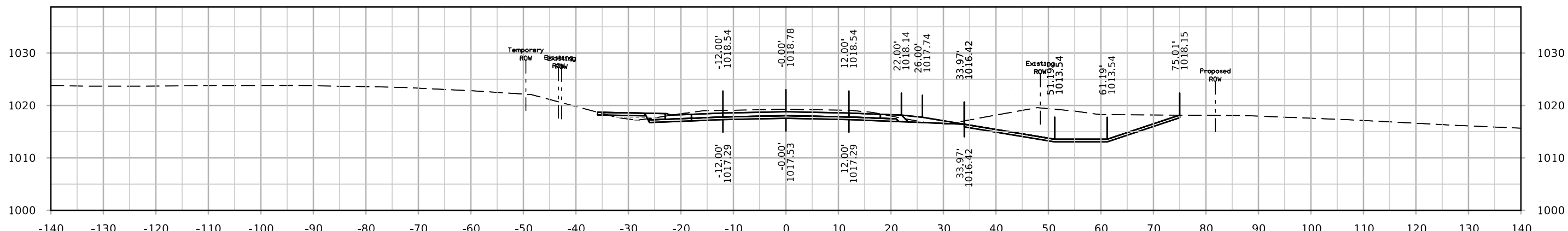
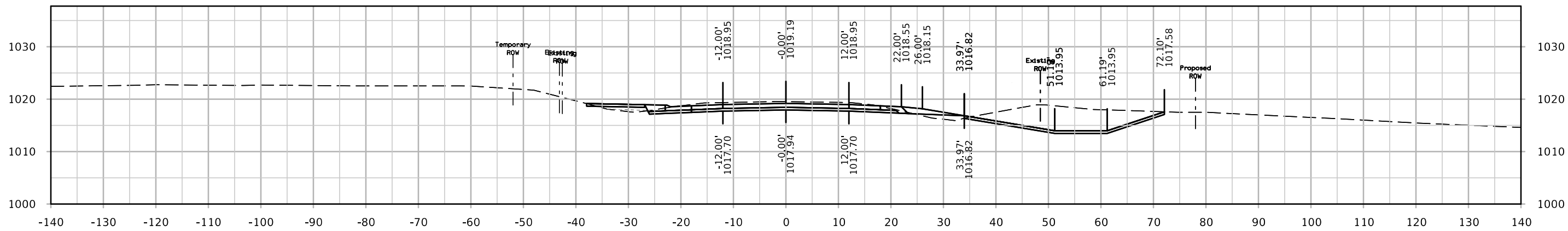


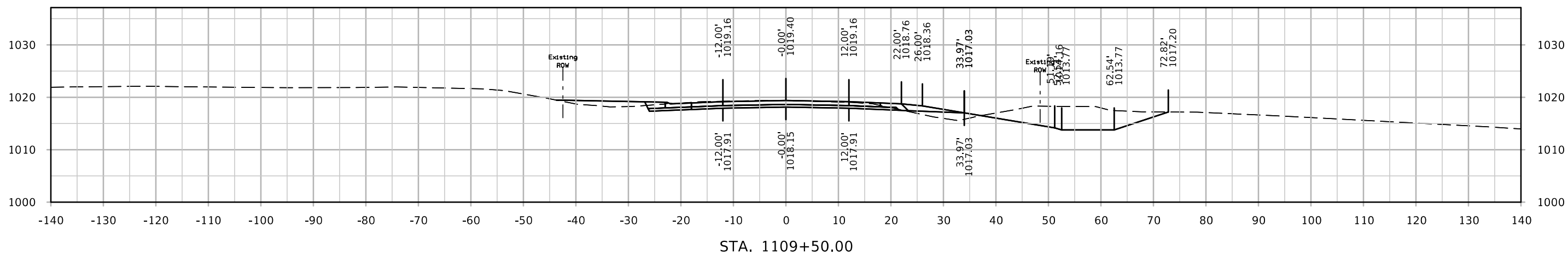
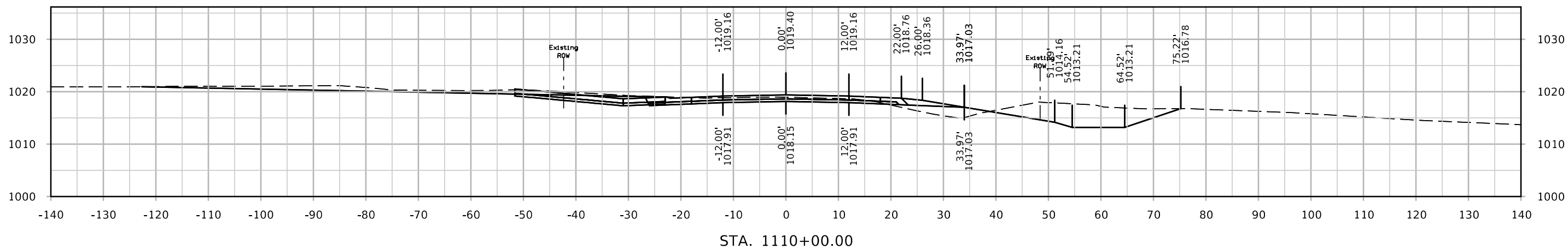
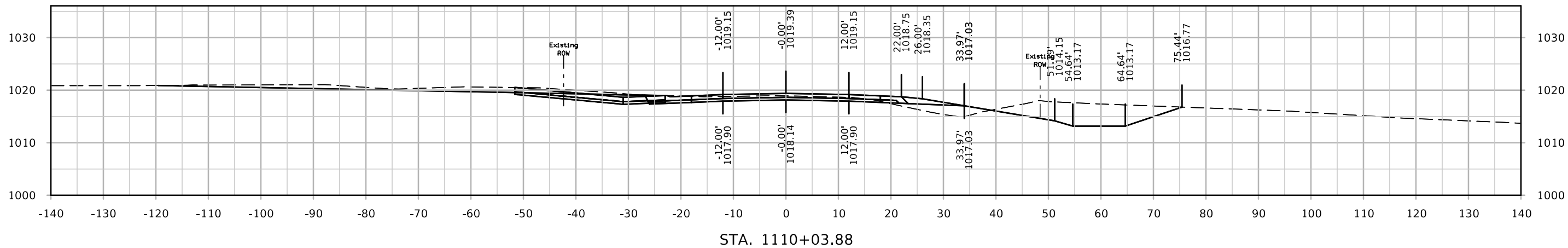


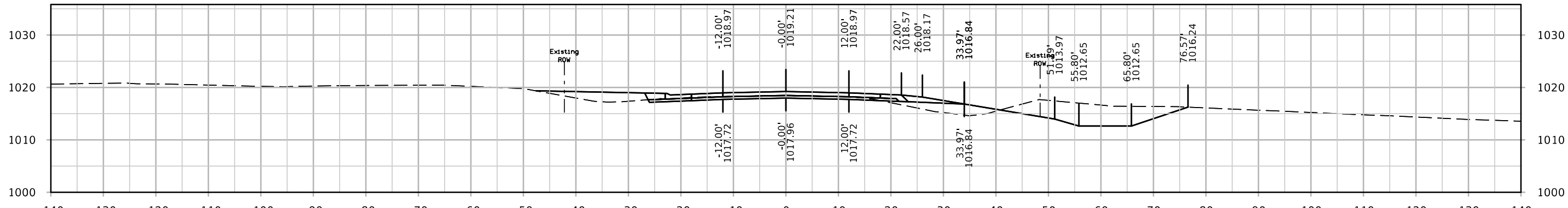
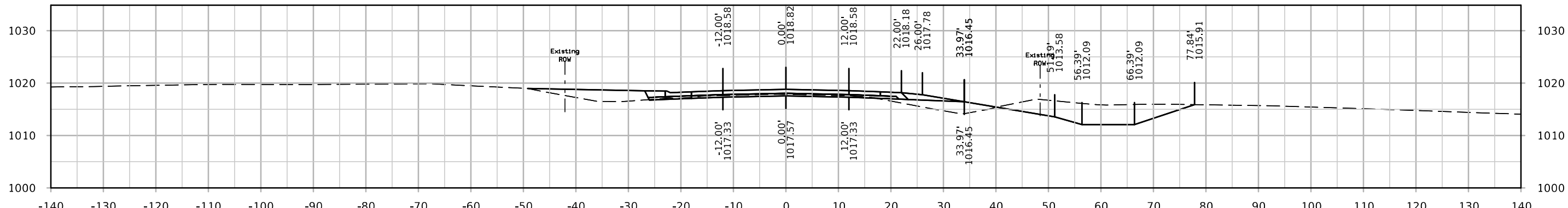
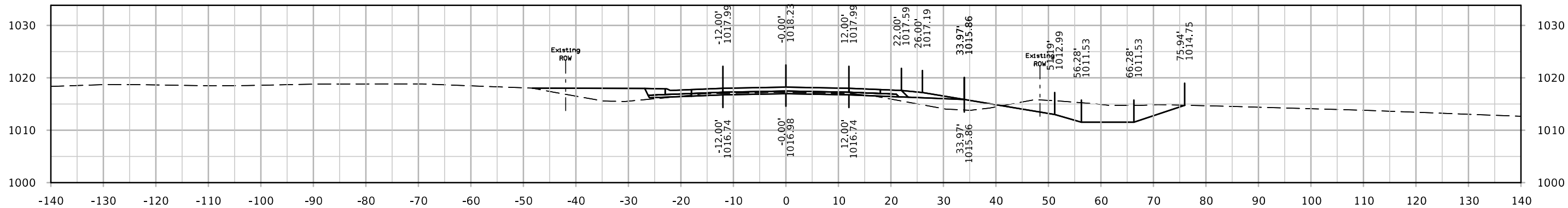


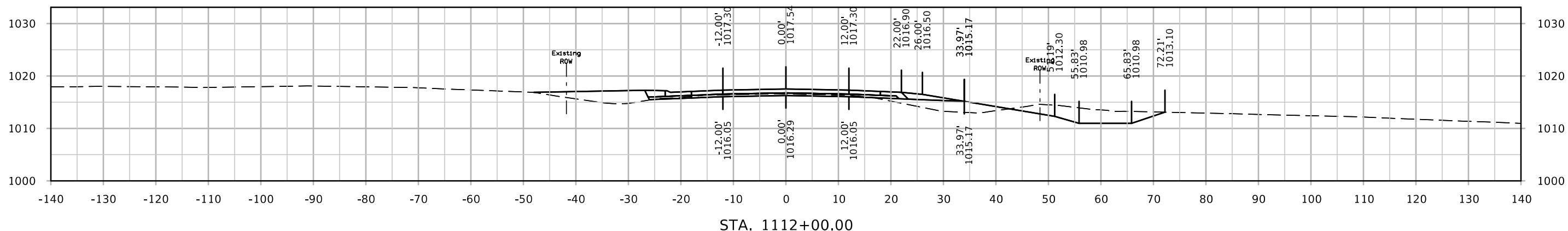
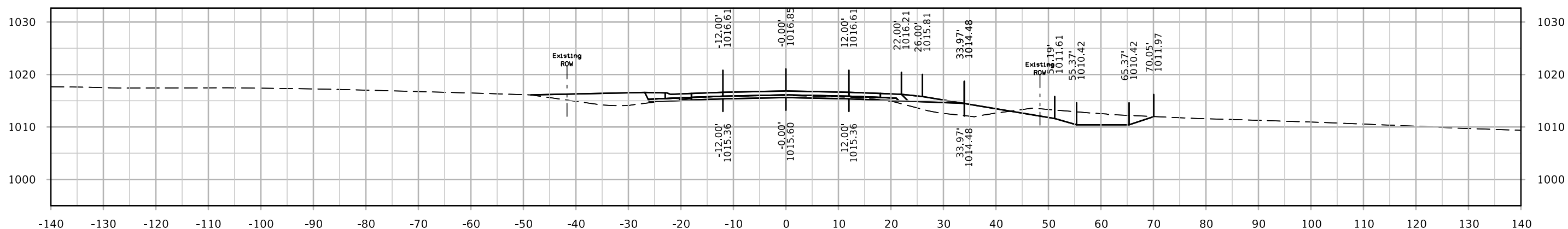
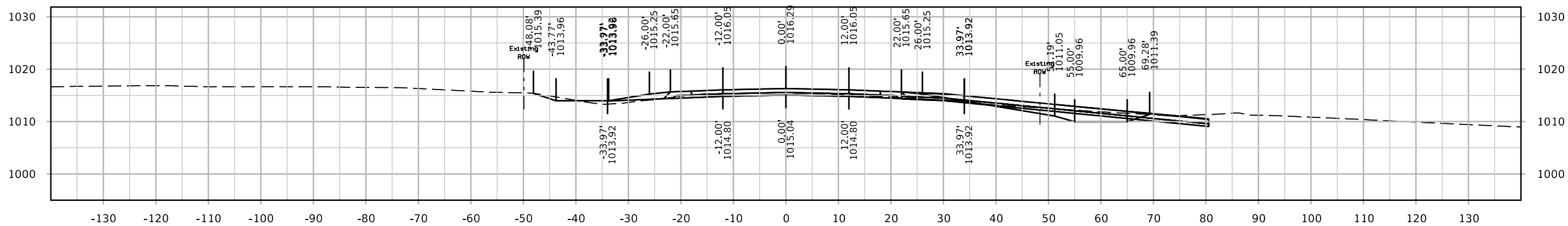


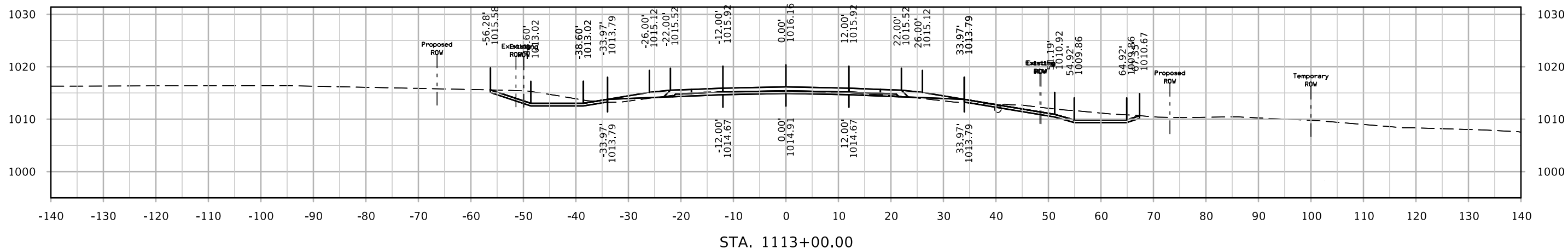
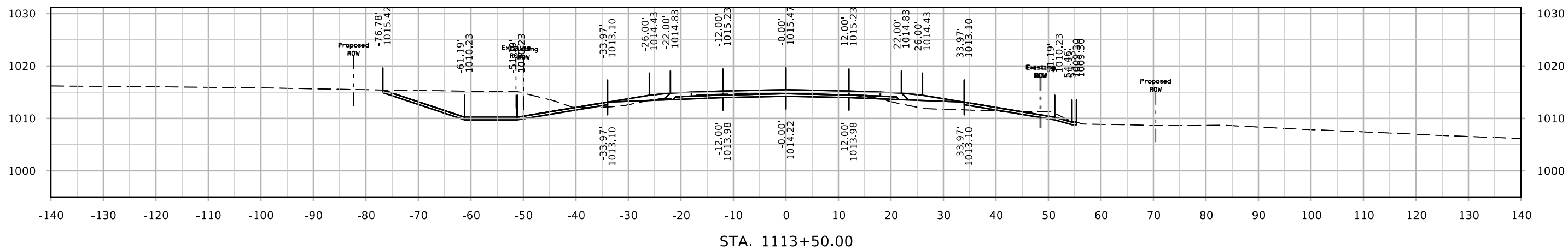
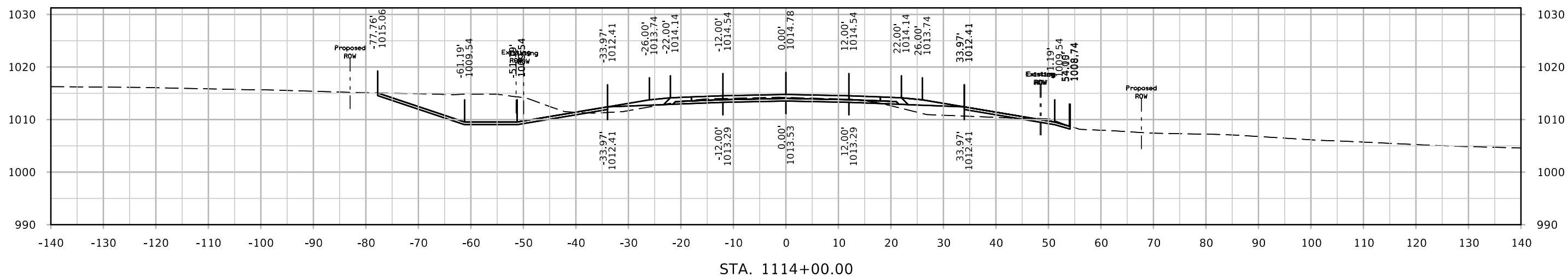


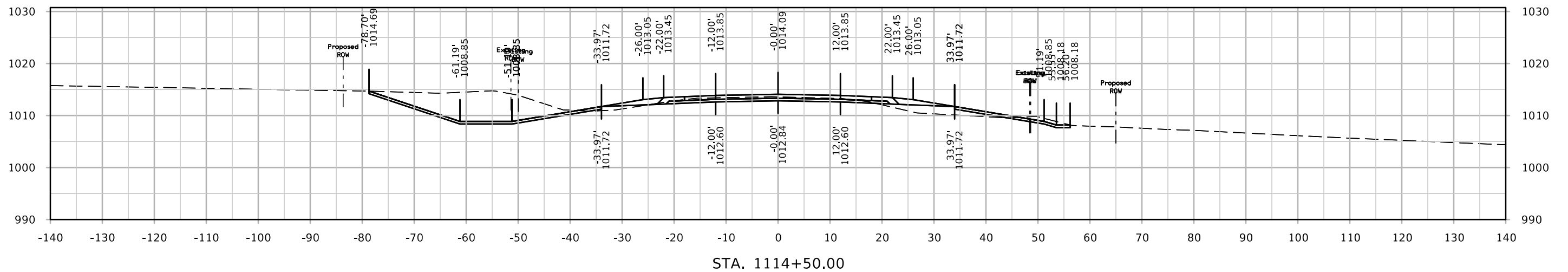
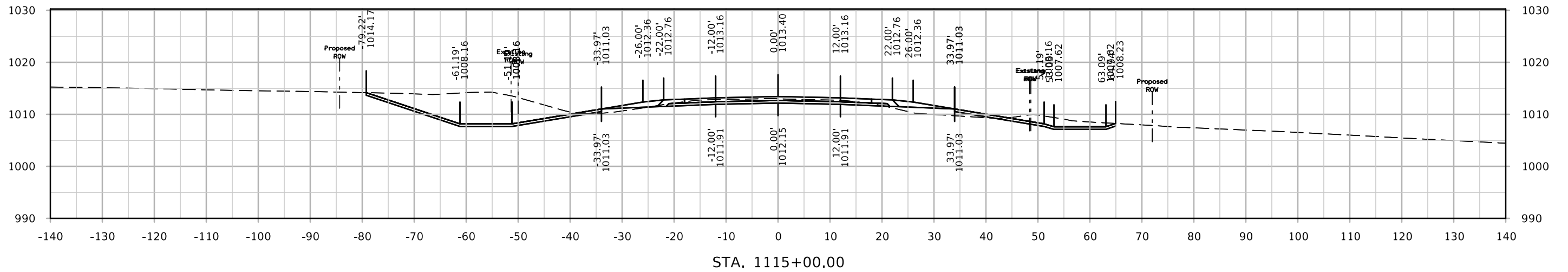
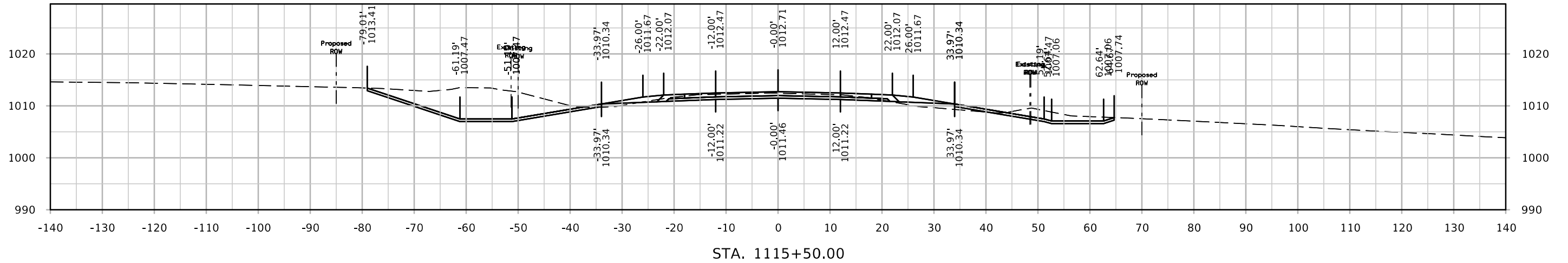


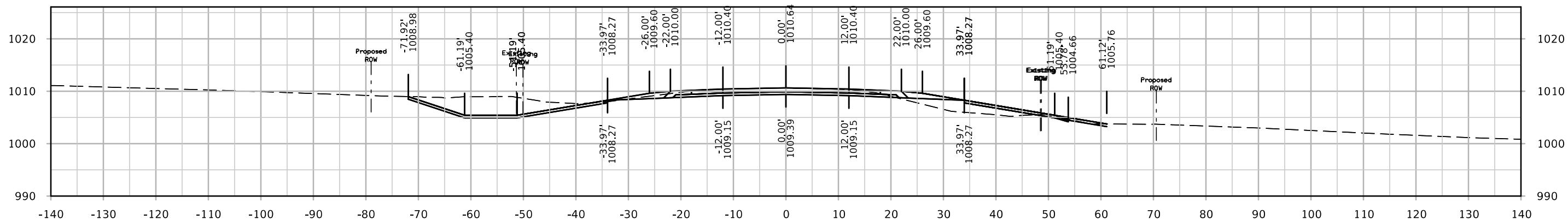




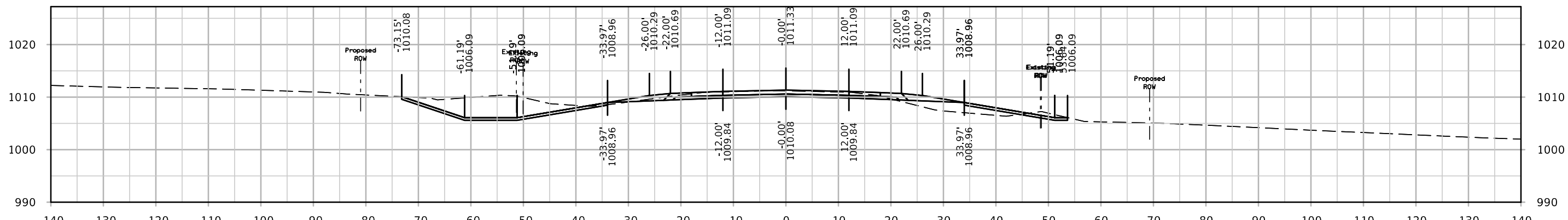




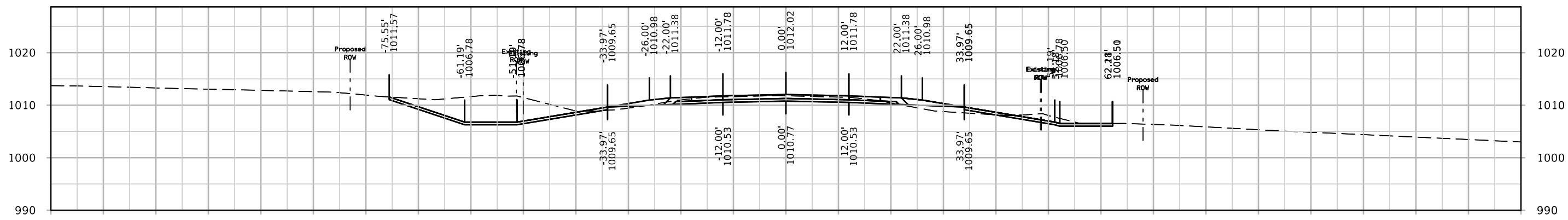




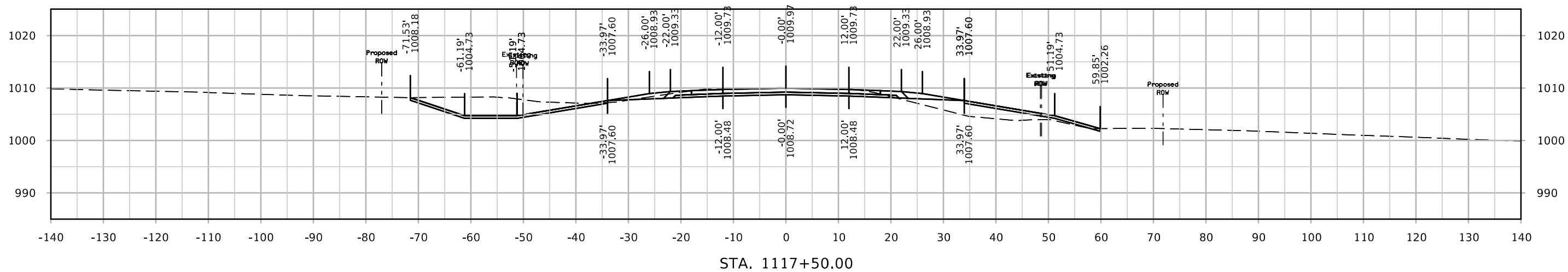
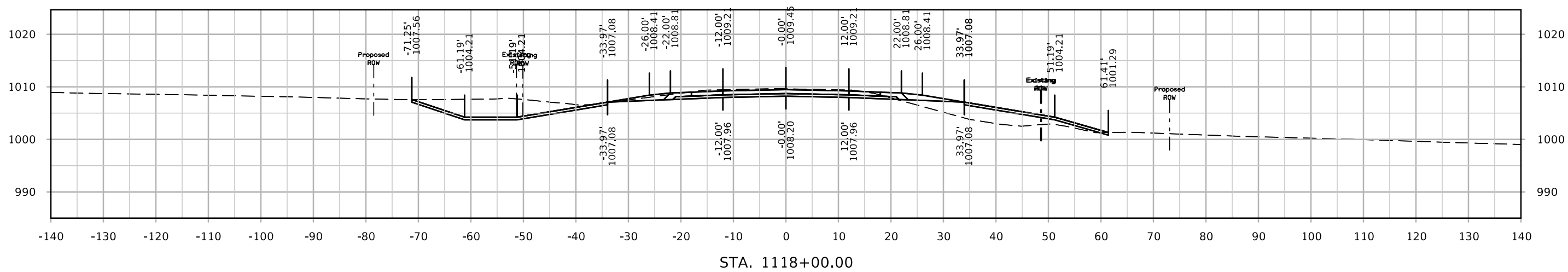
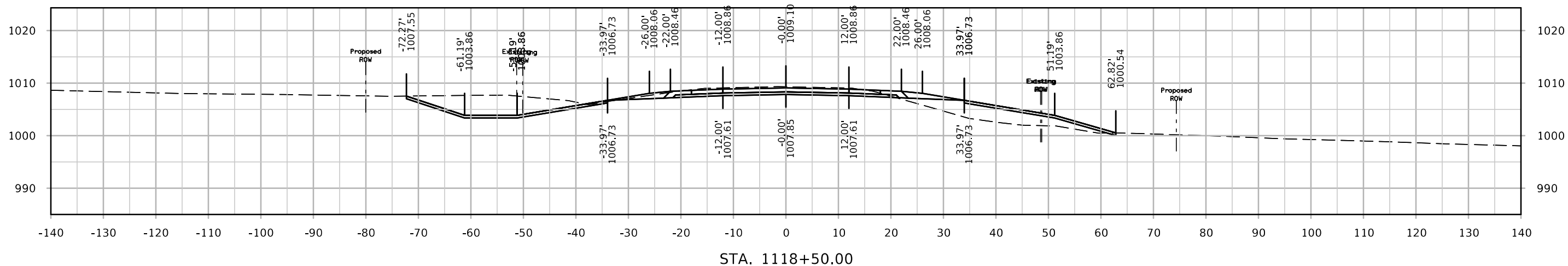
STA. 1117+00.00

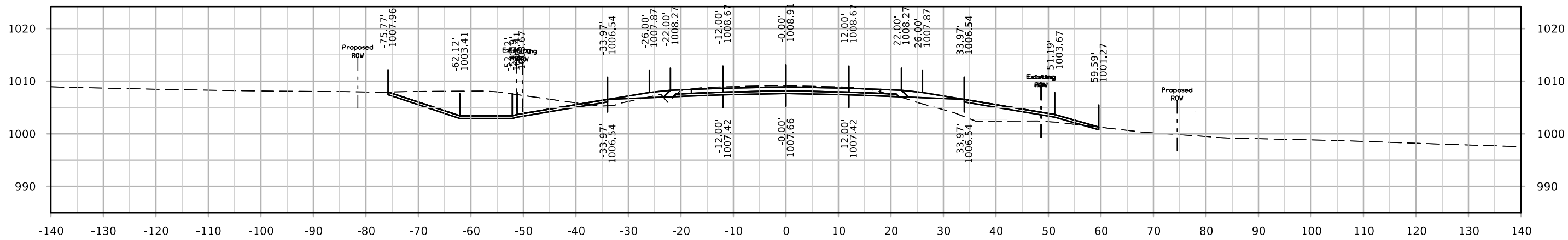
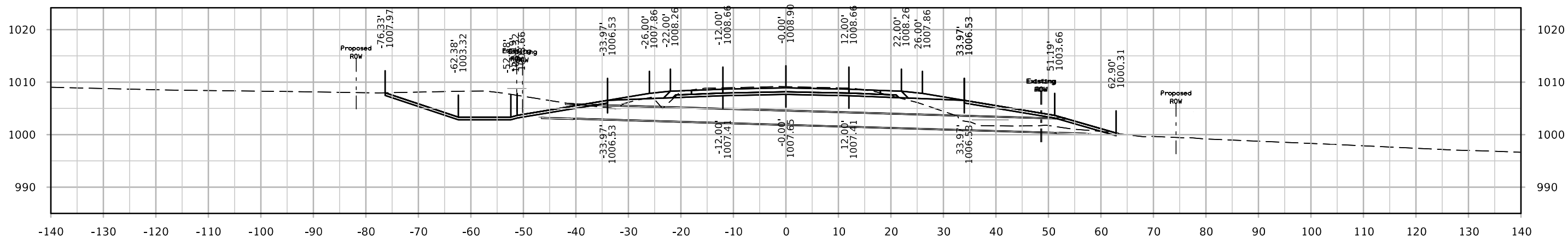
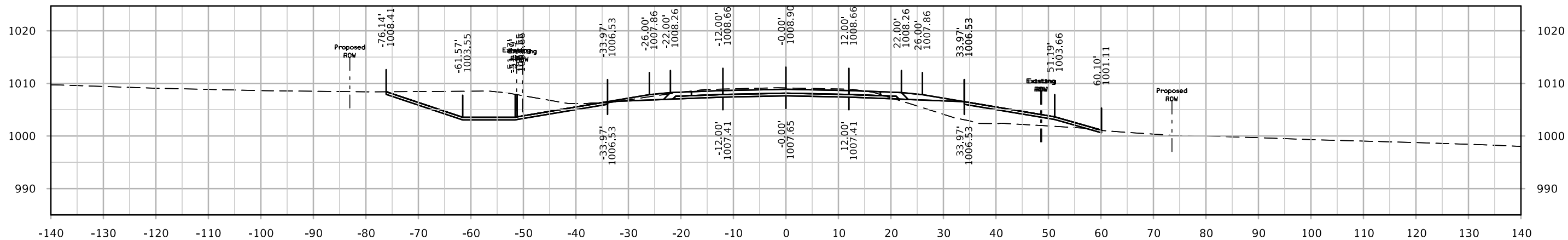


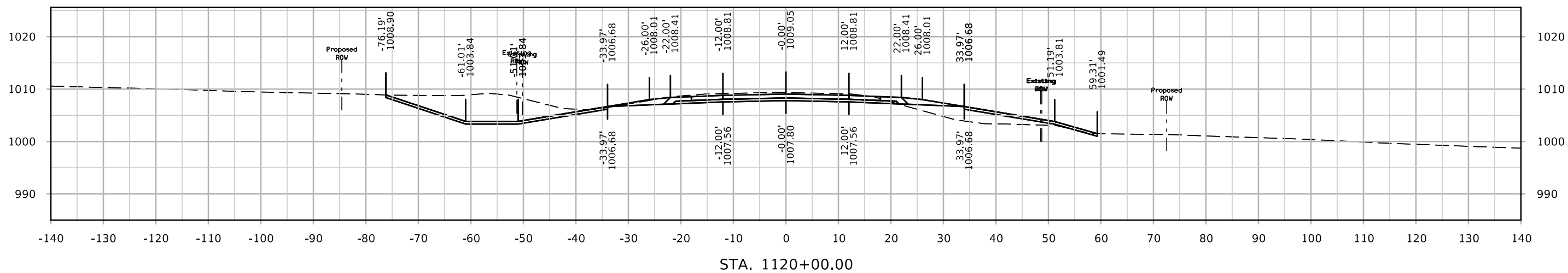
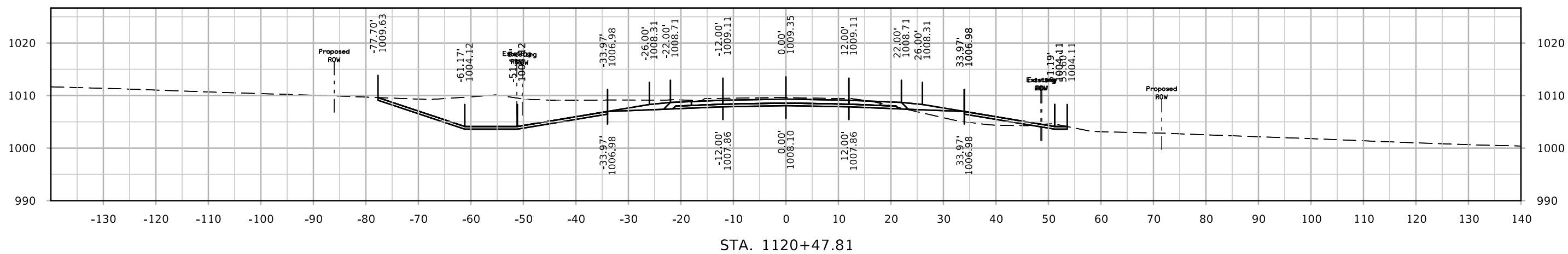
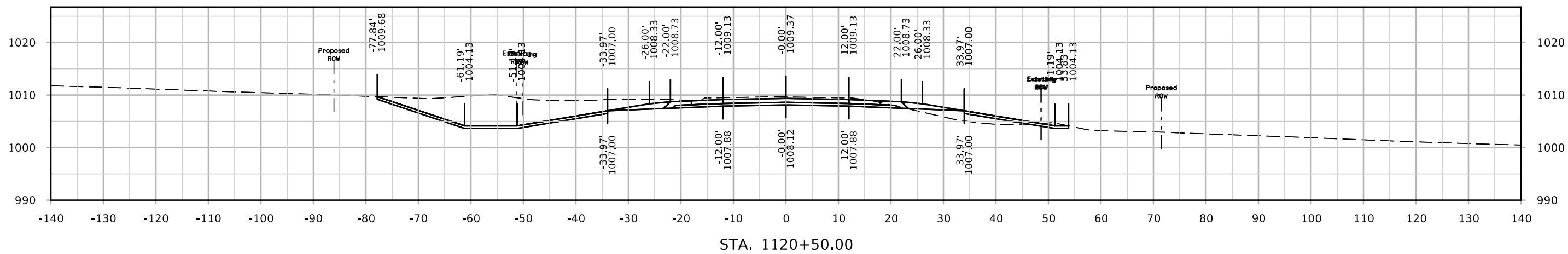
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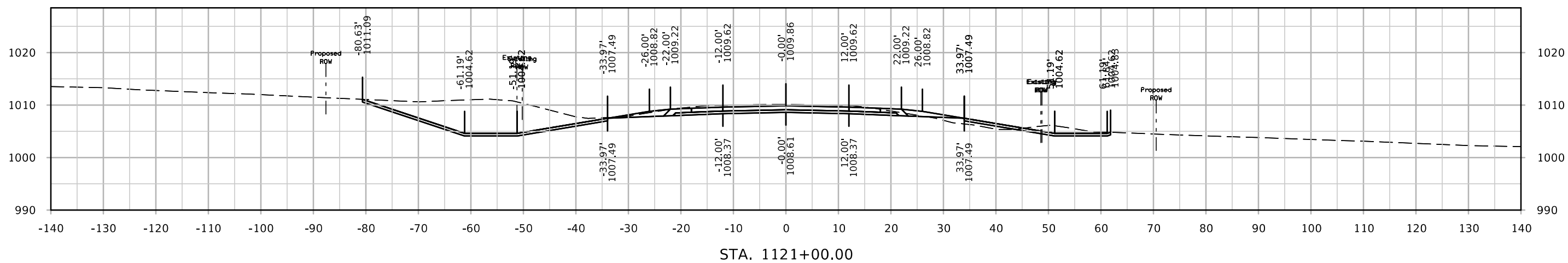
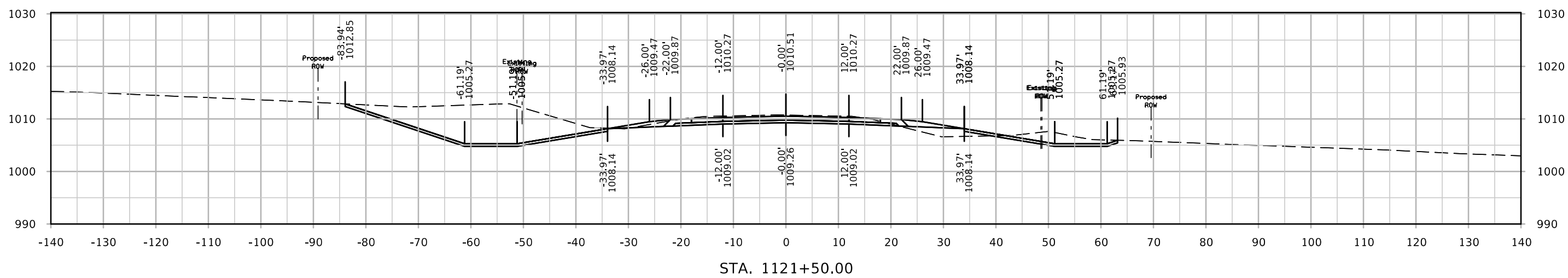
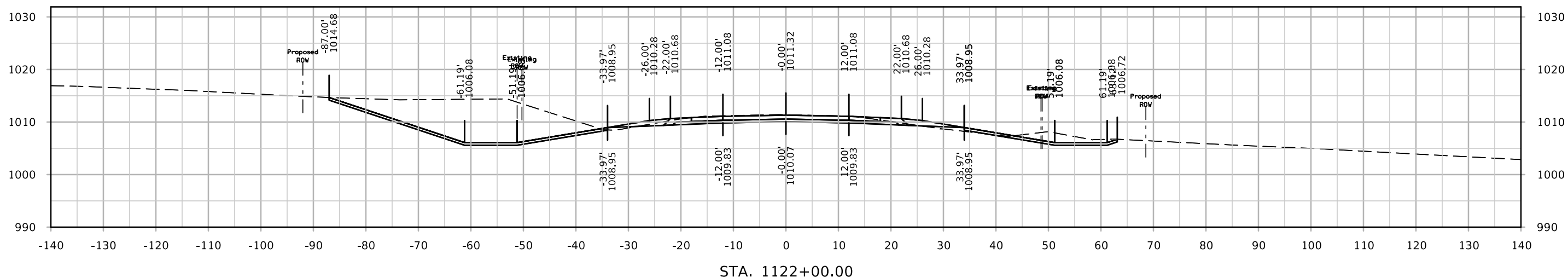


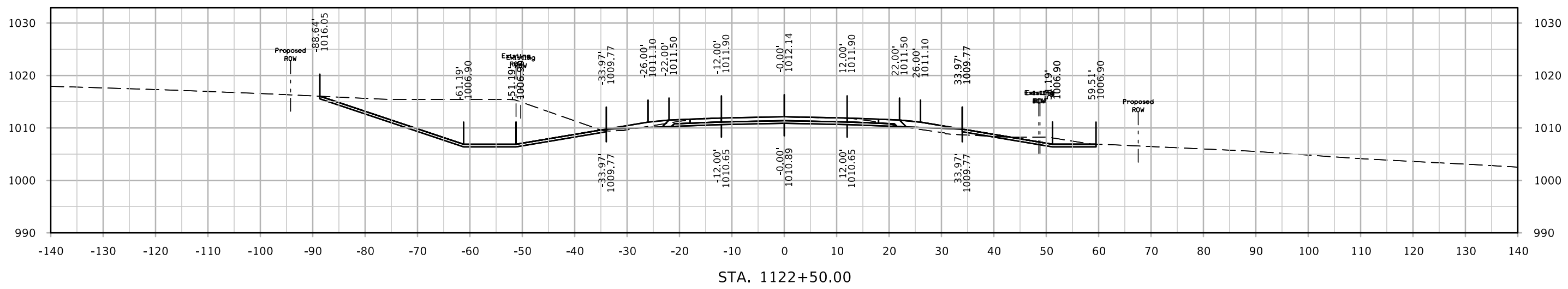
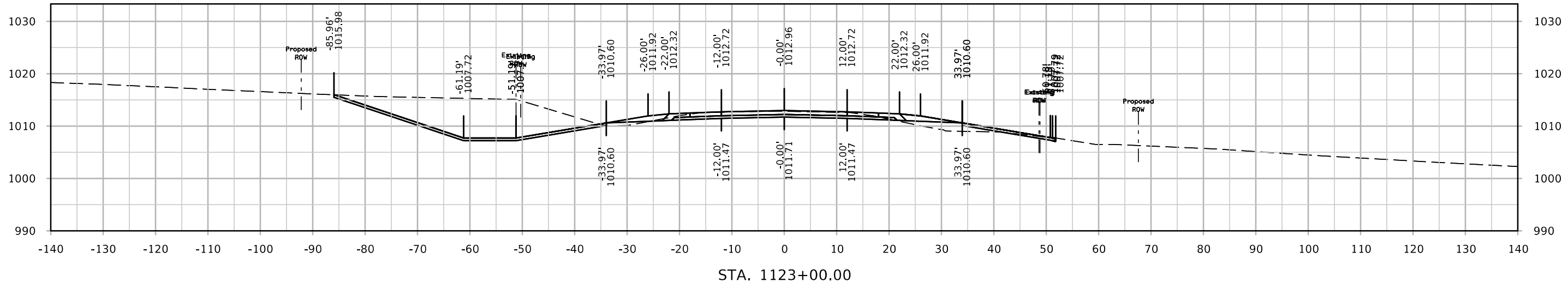
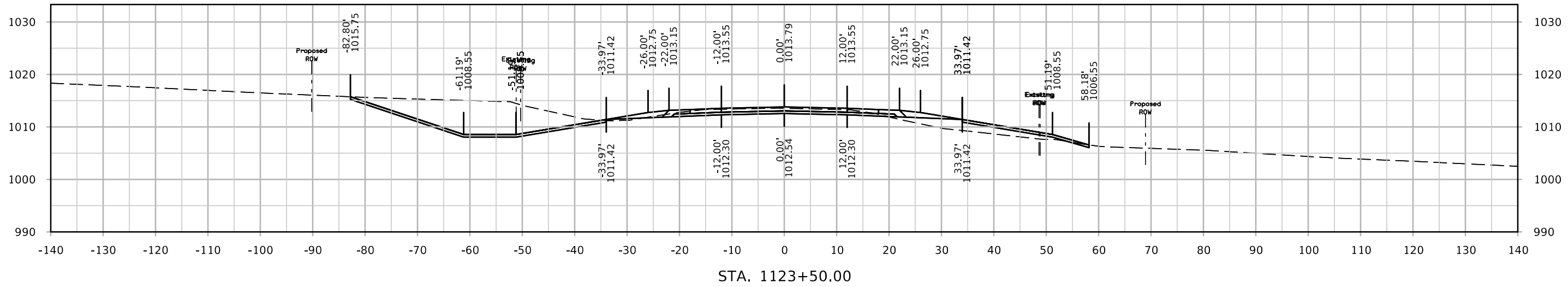
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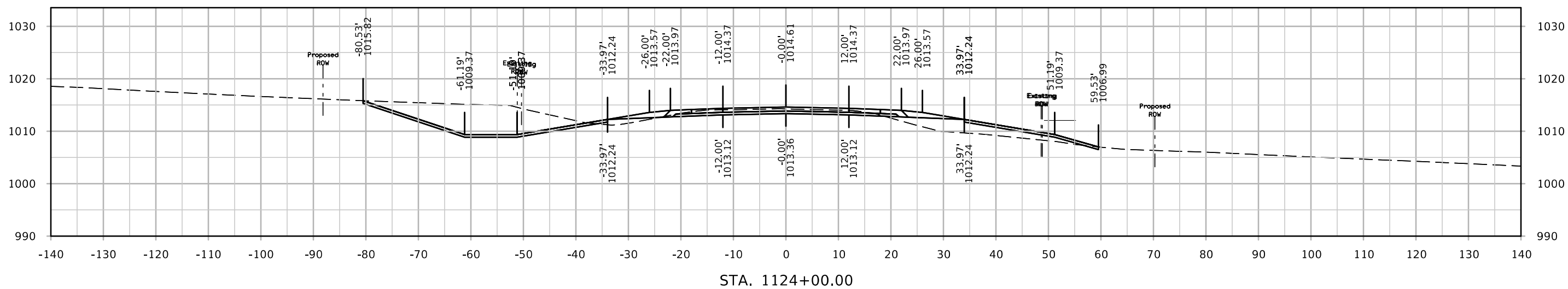
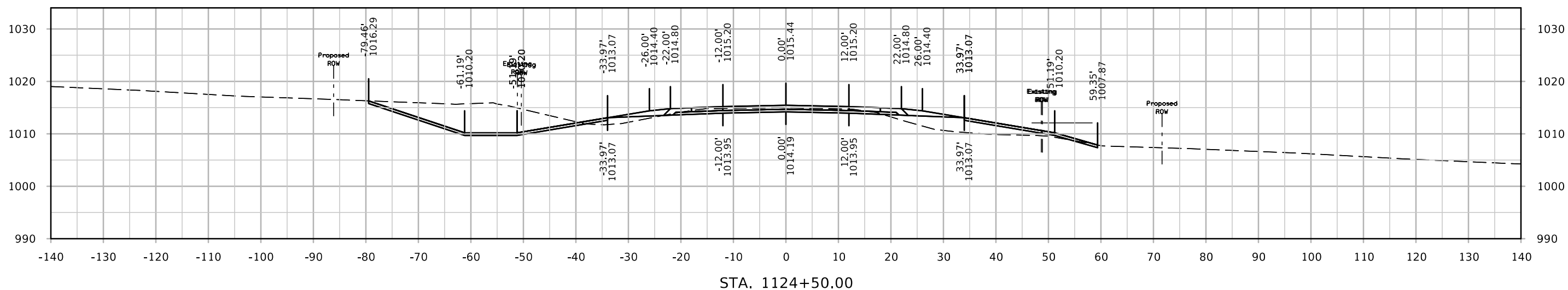
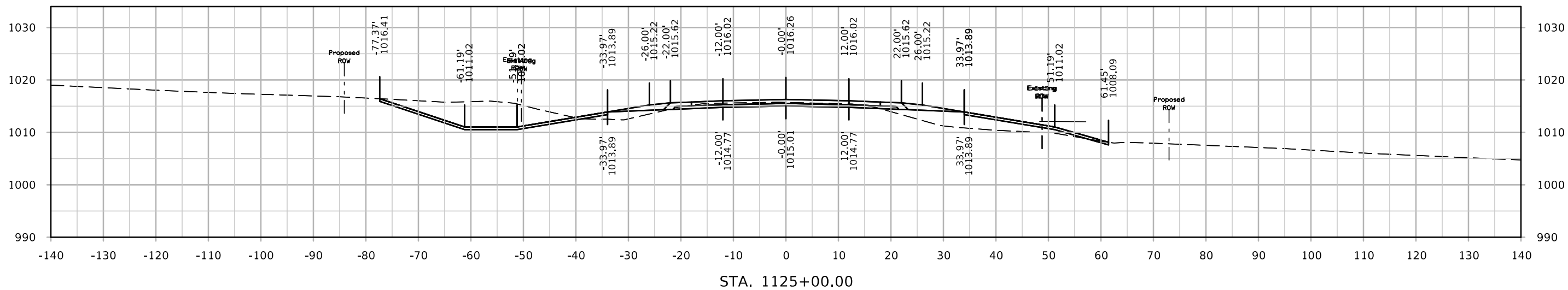


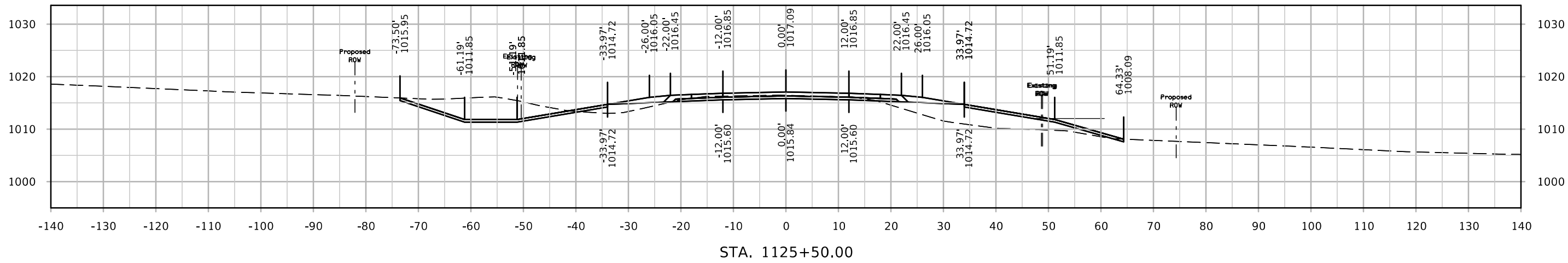
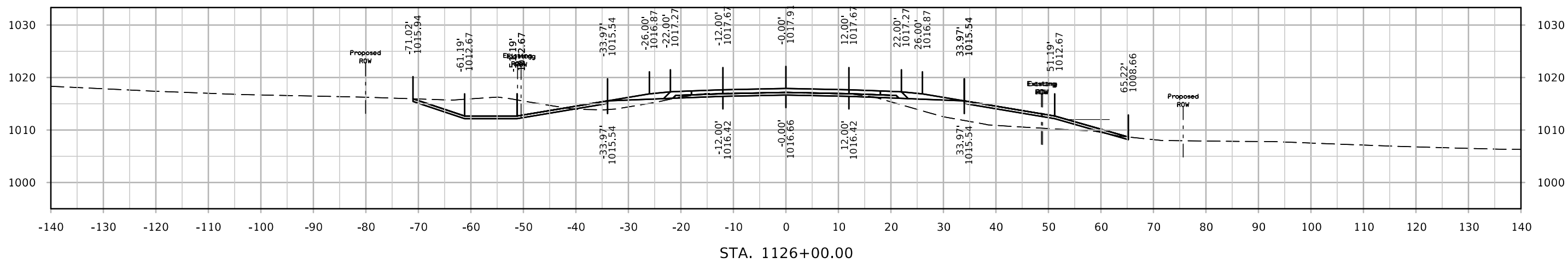
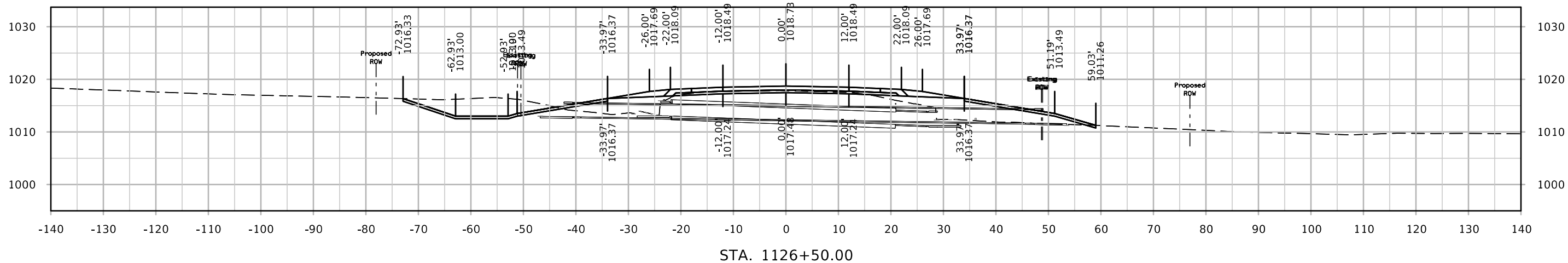


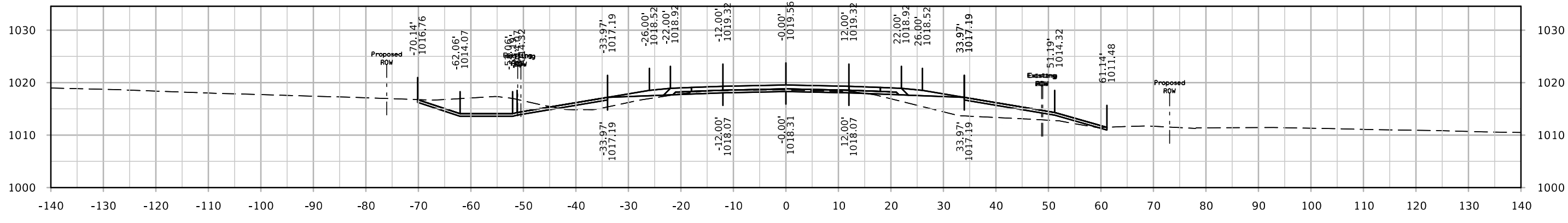
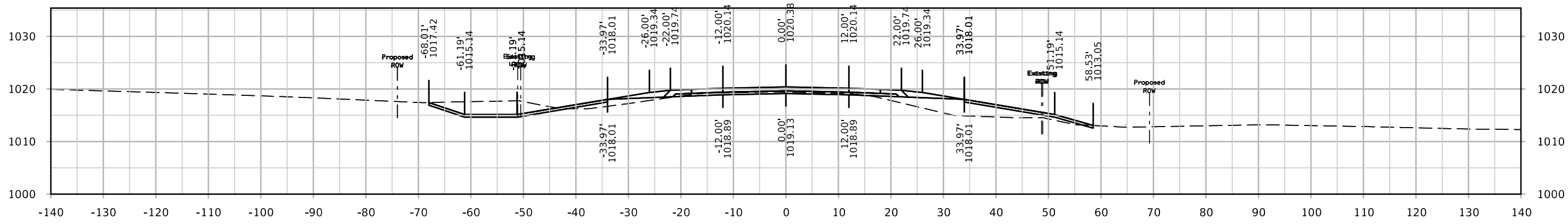
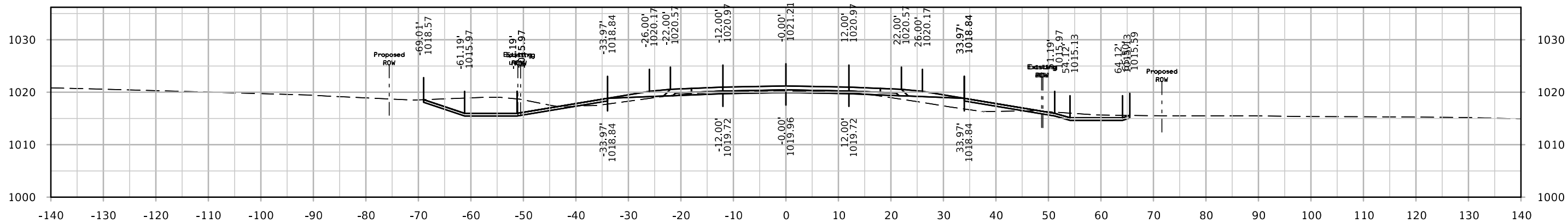


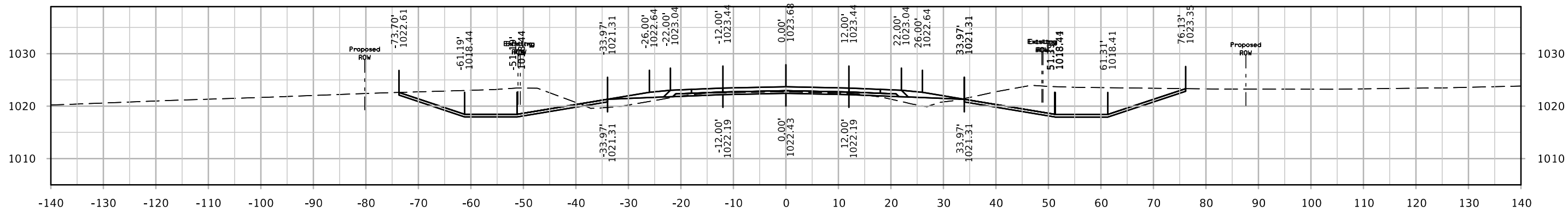




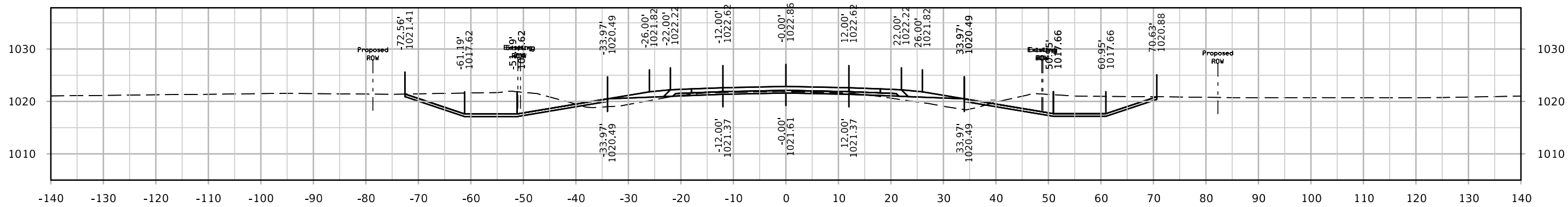




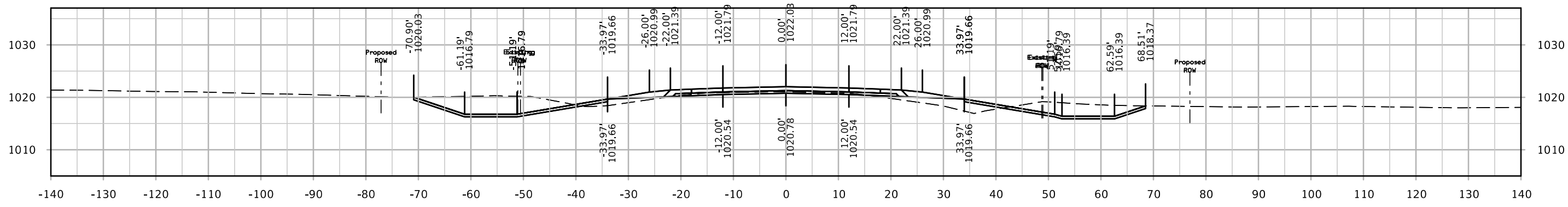




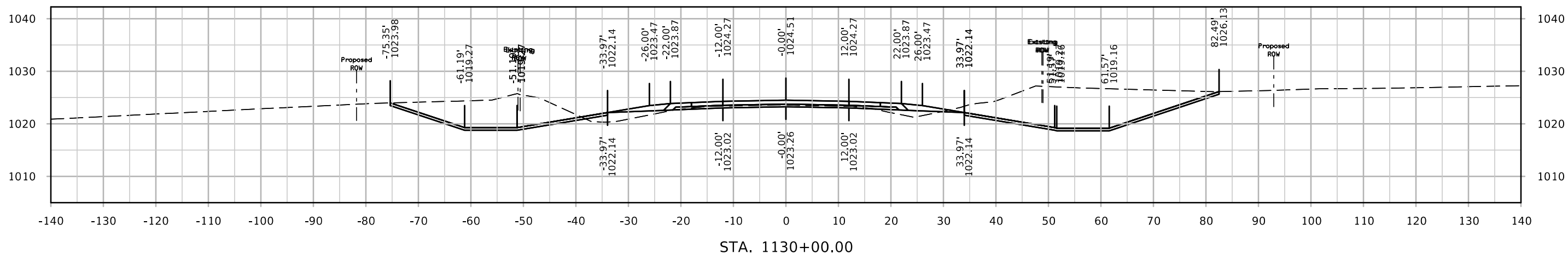
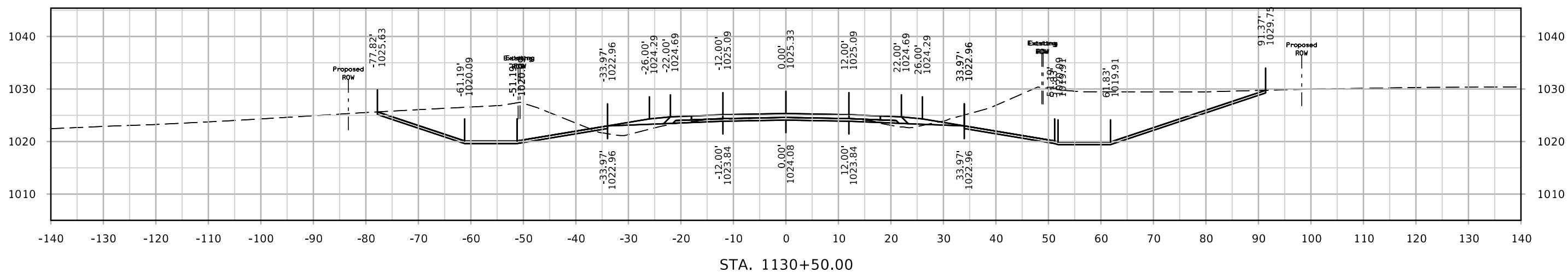
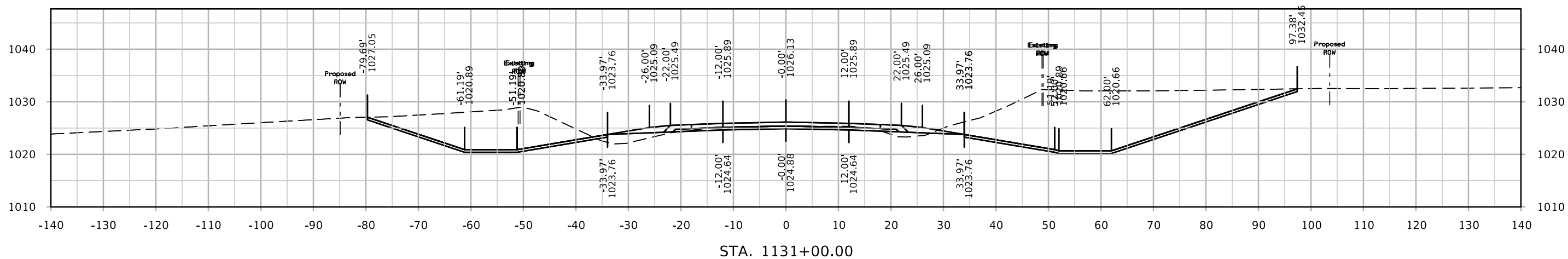
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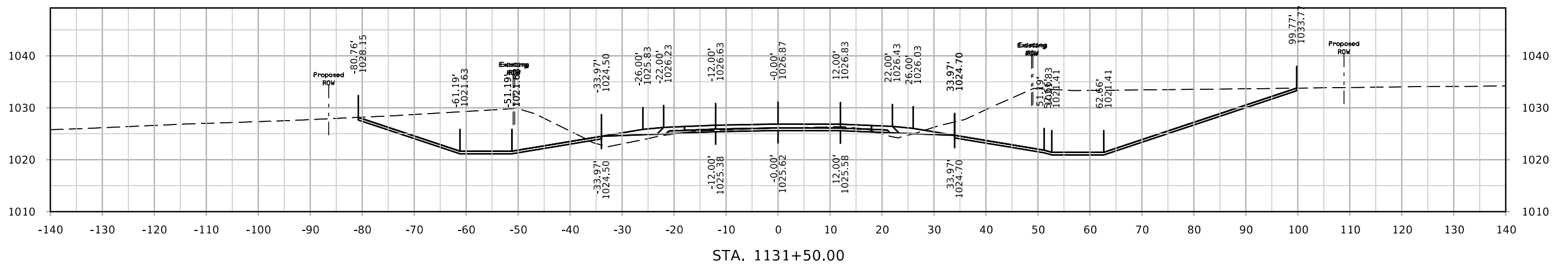
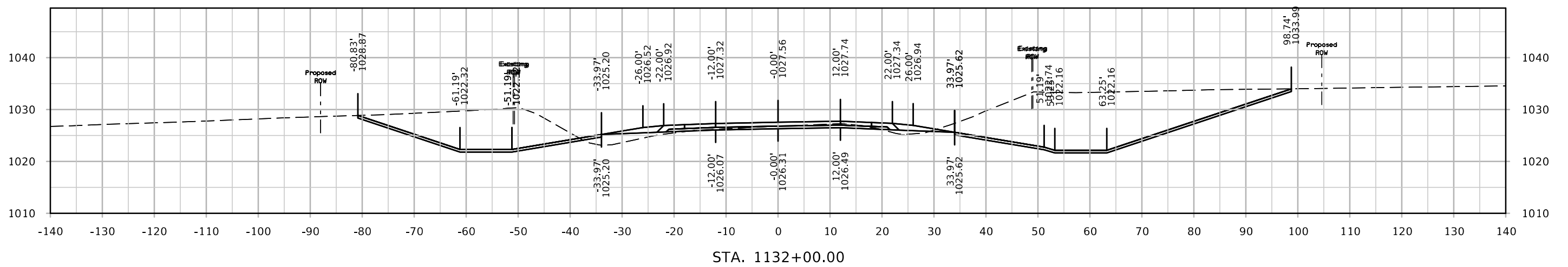
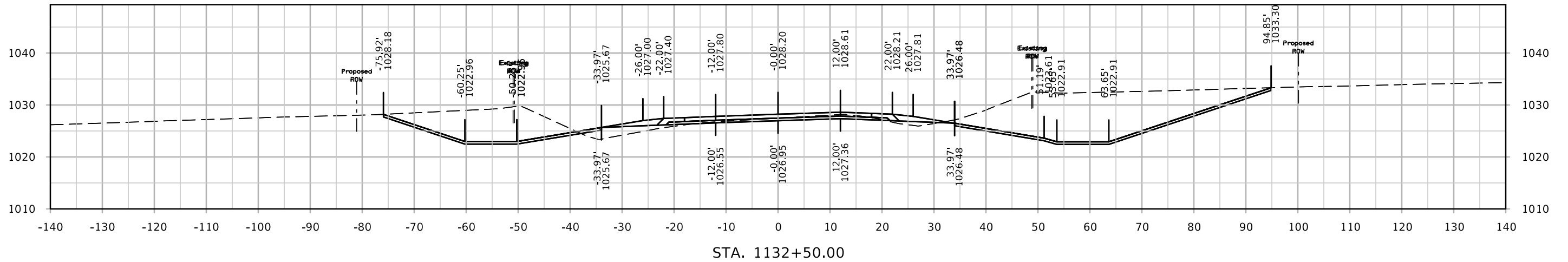


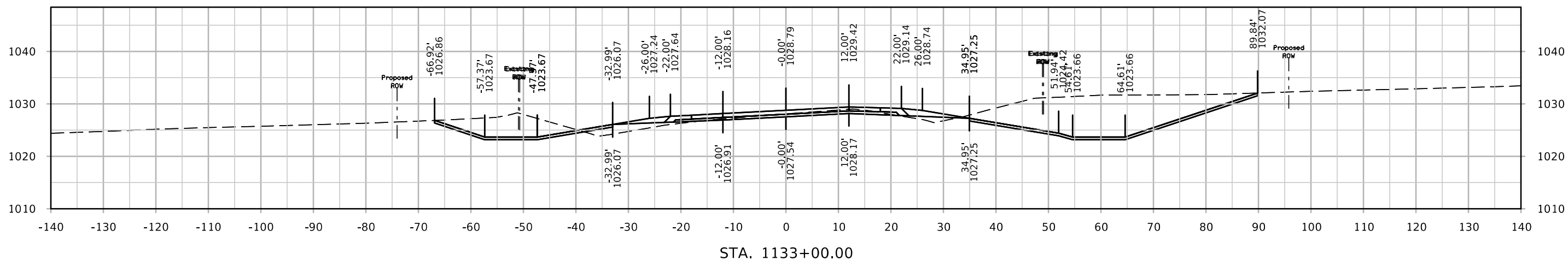
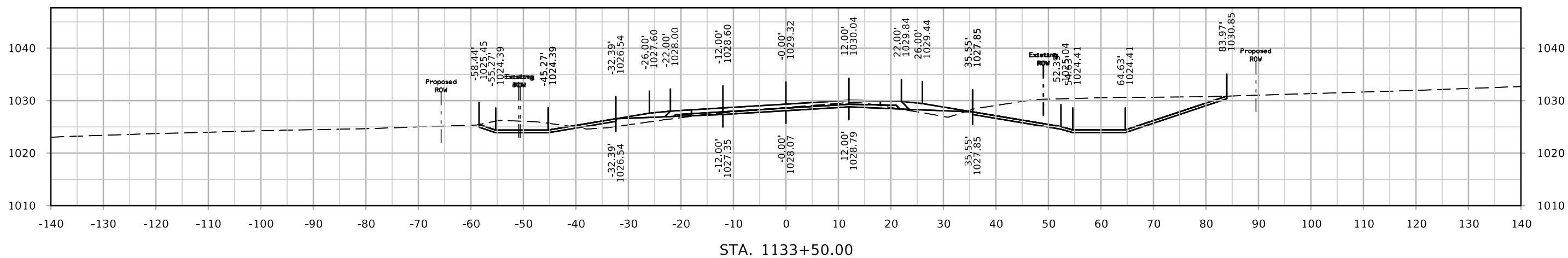
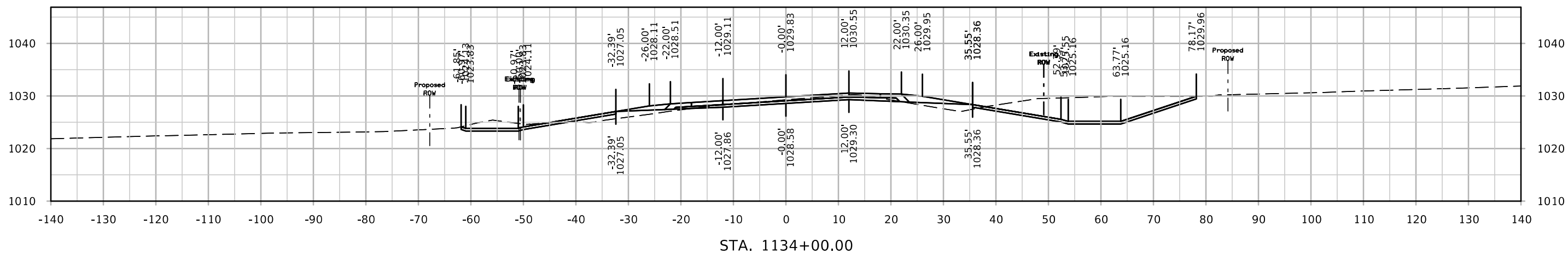
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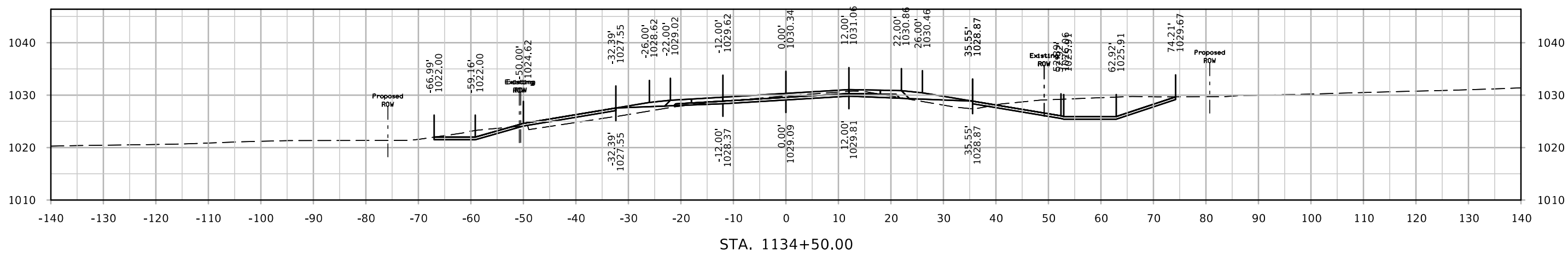
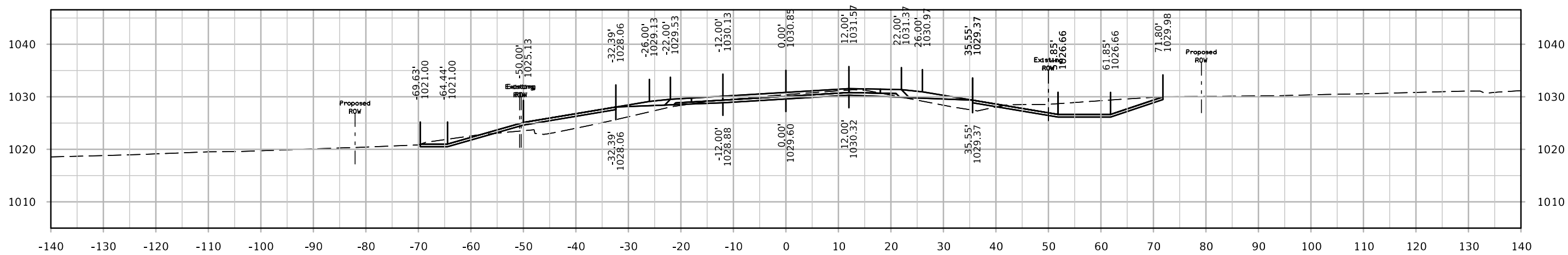
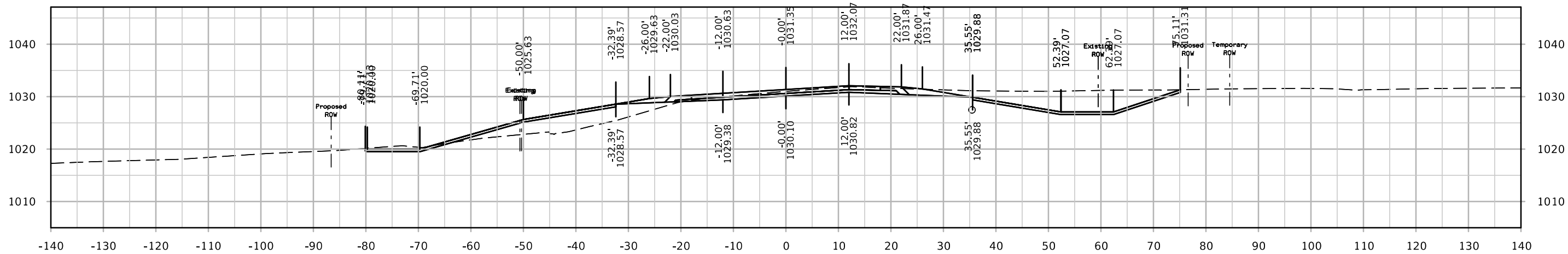


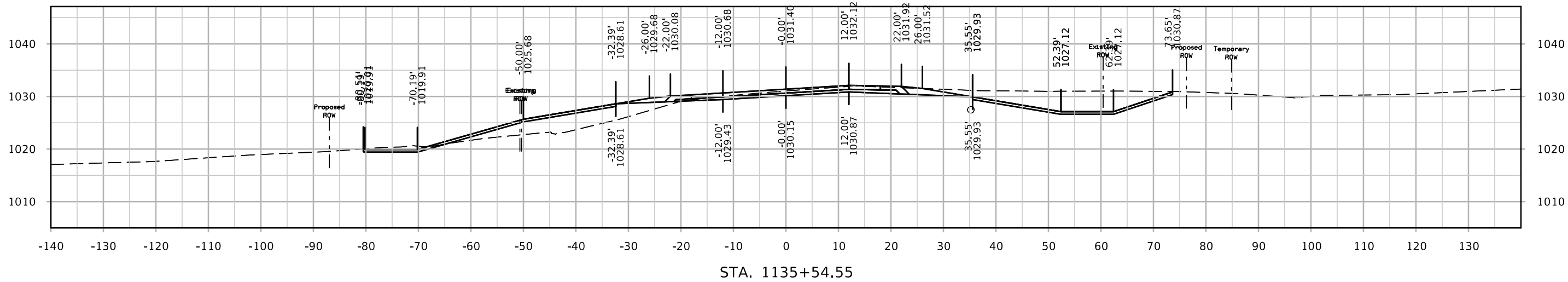
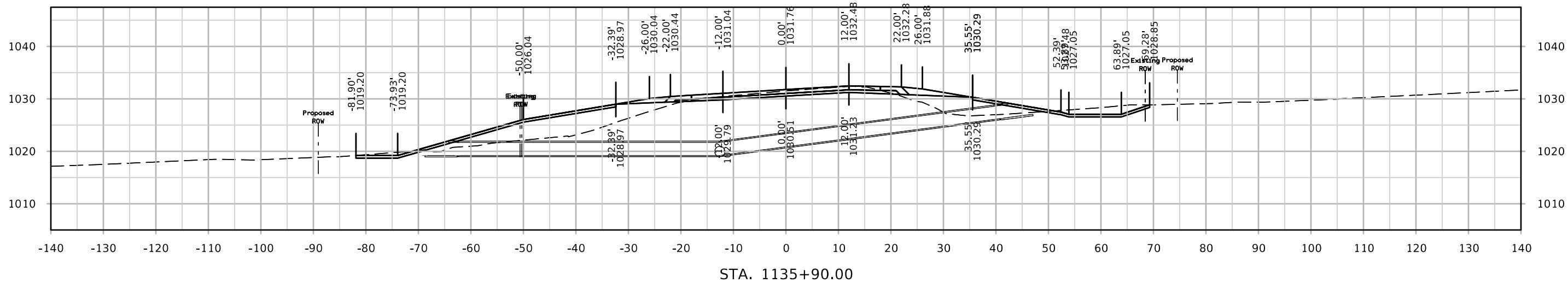
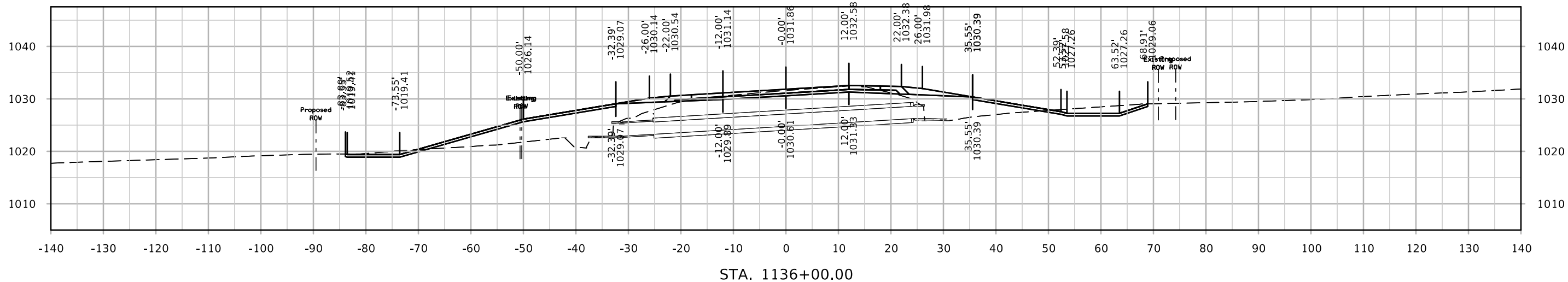
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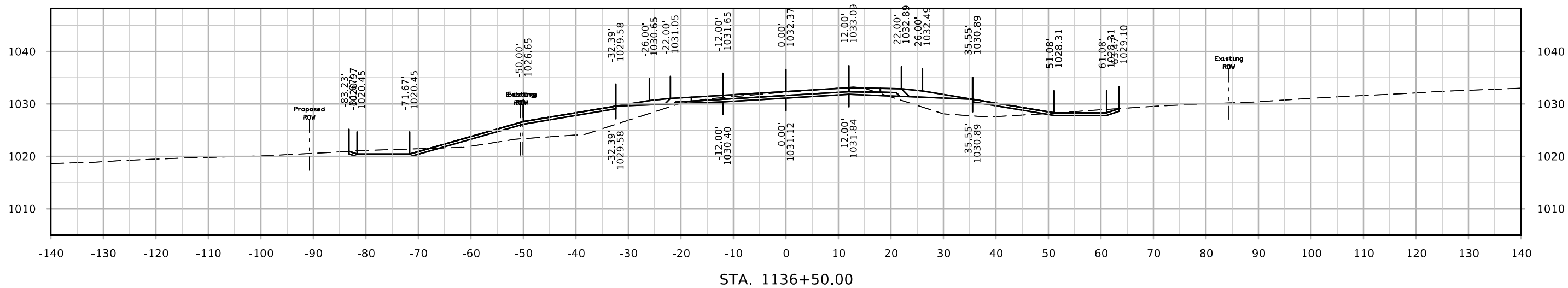
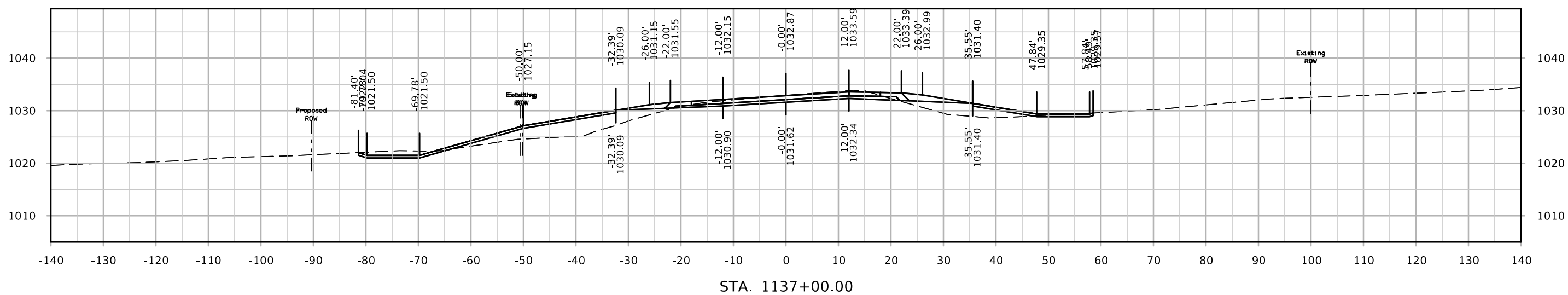
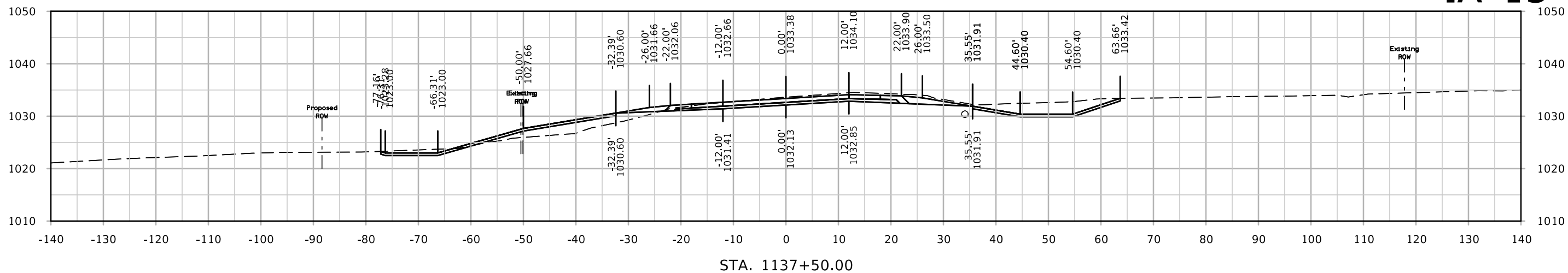


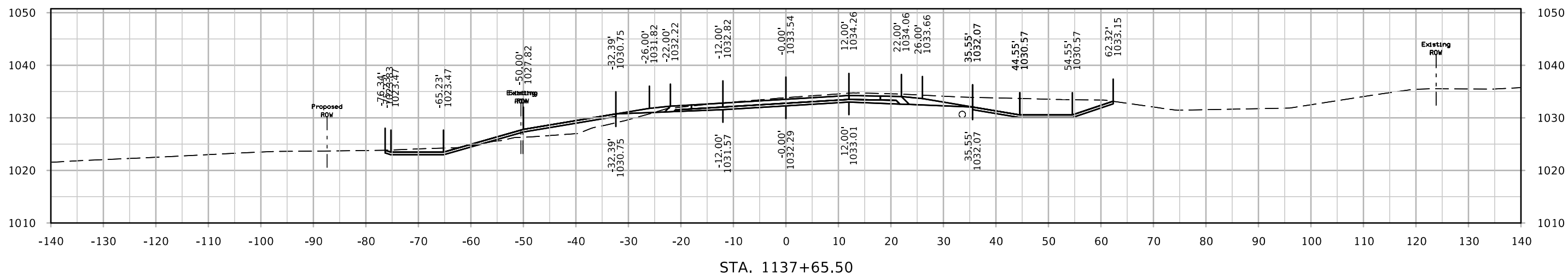
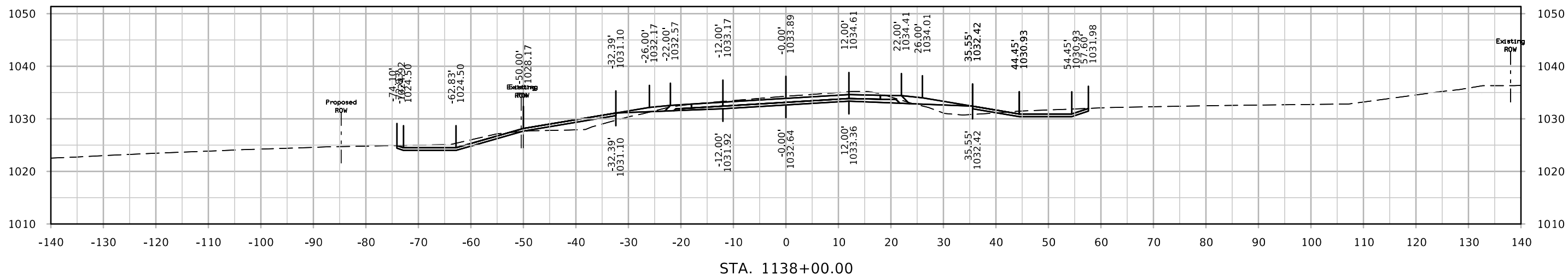
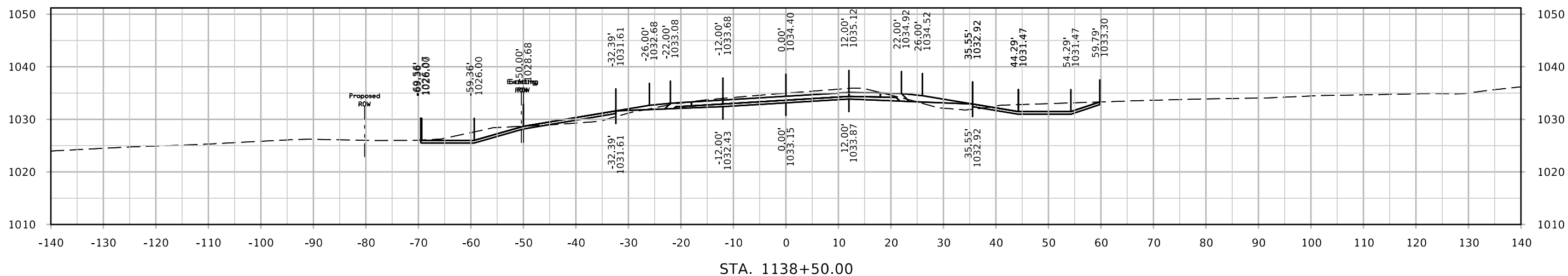


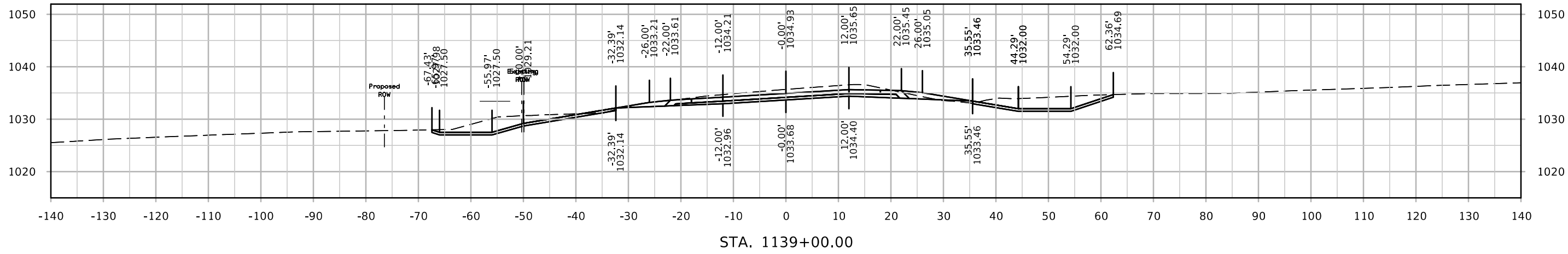
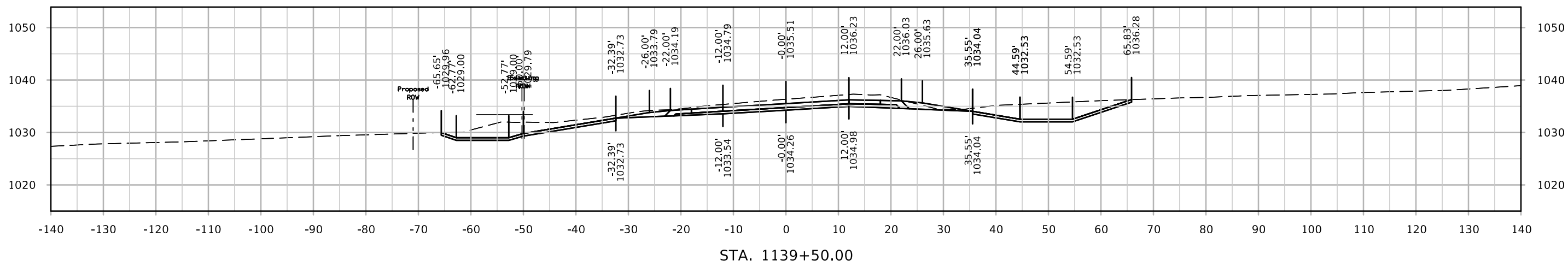
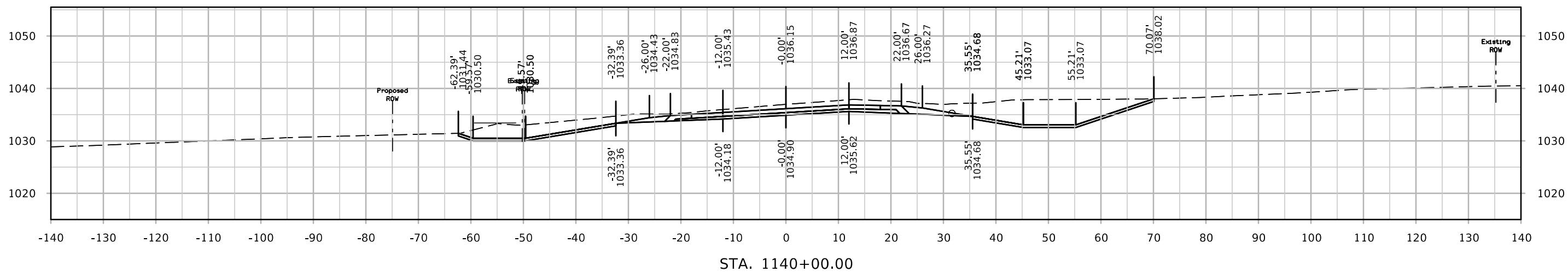


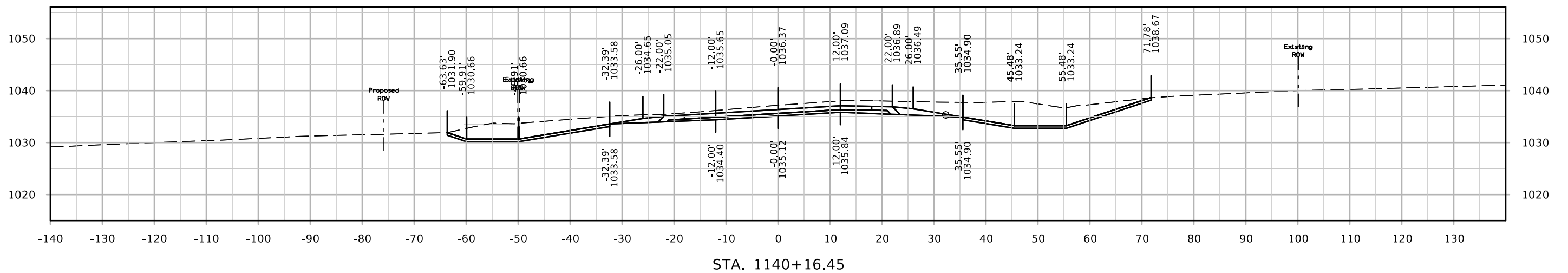
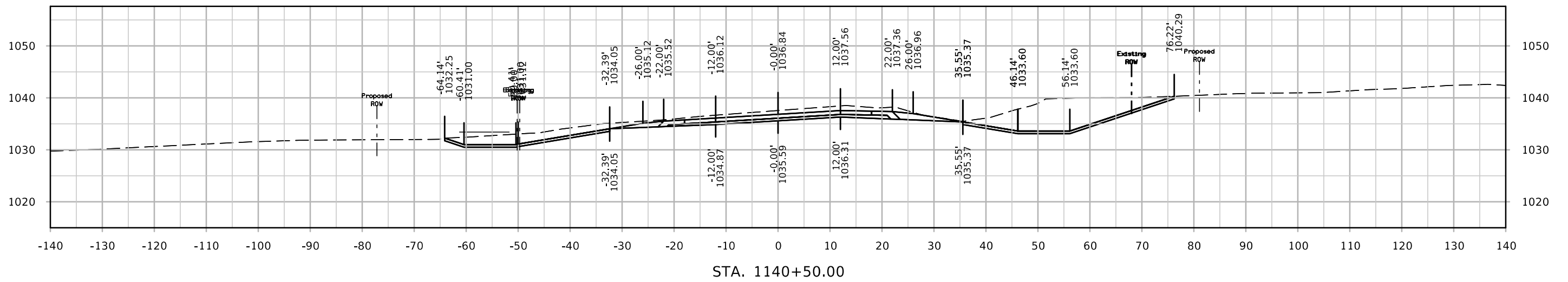
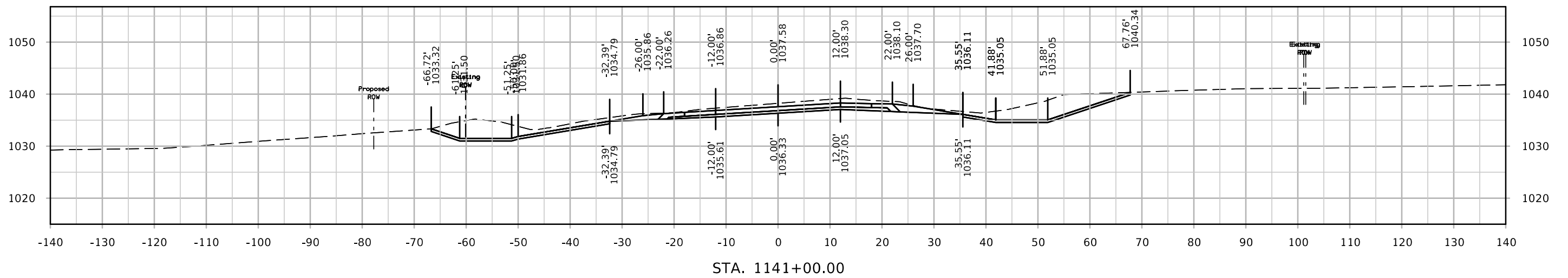


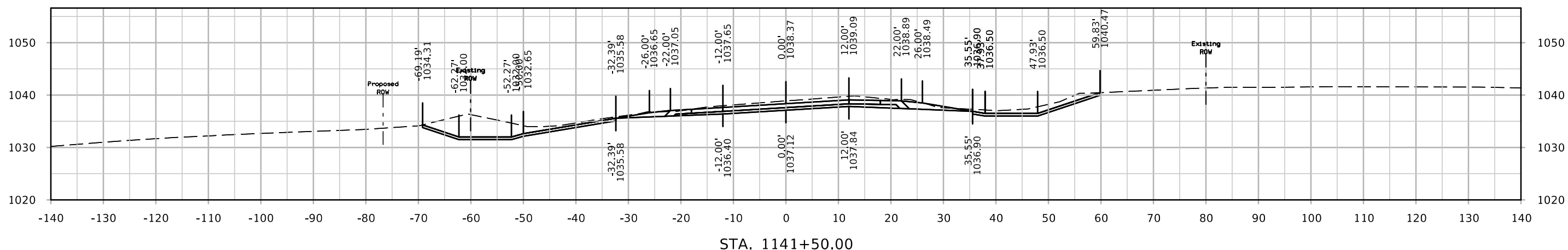
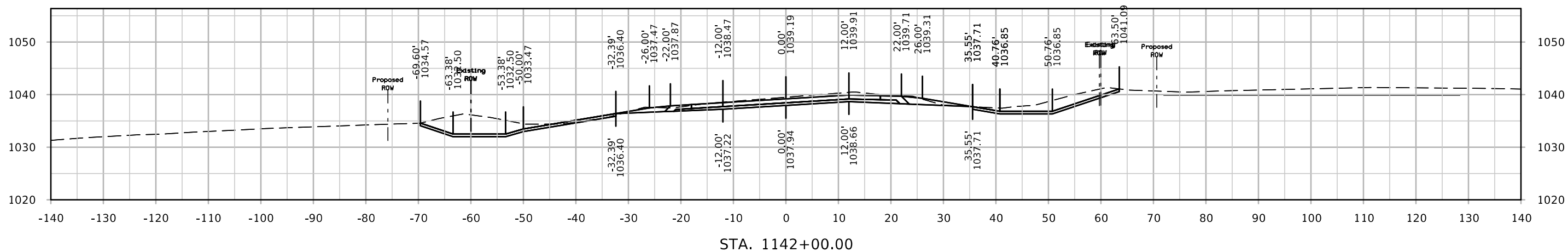
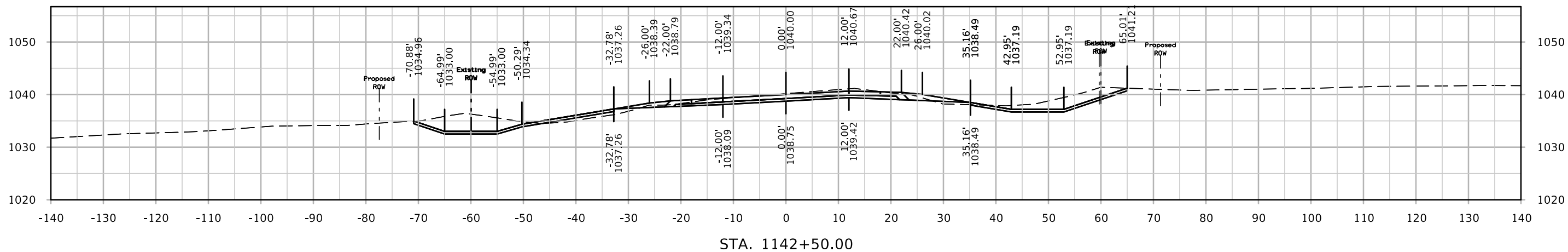


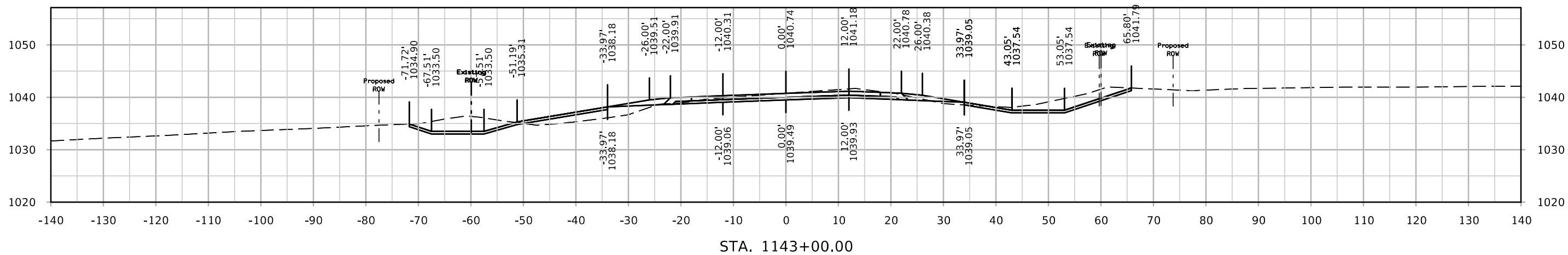
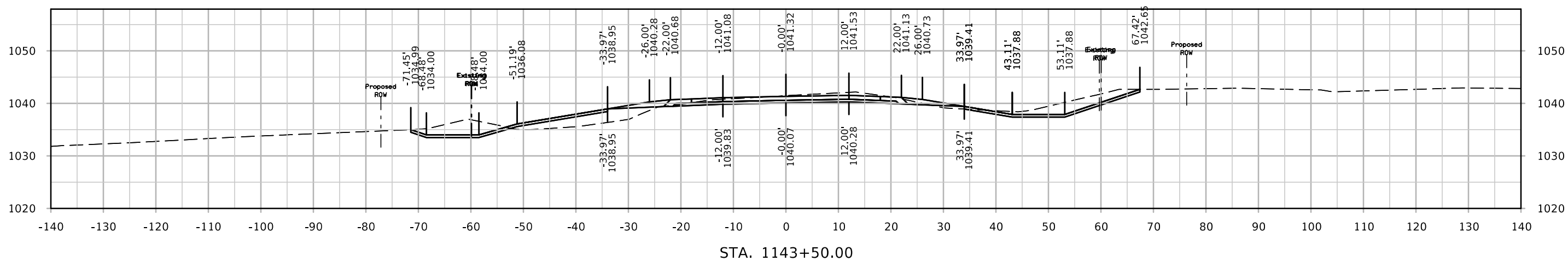
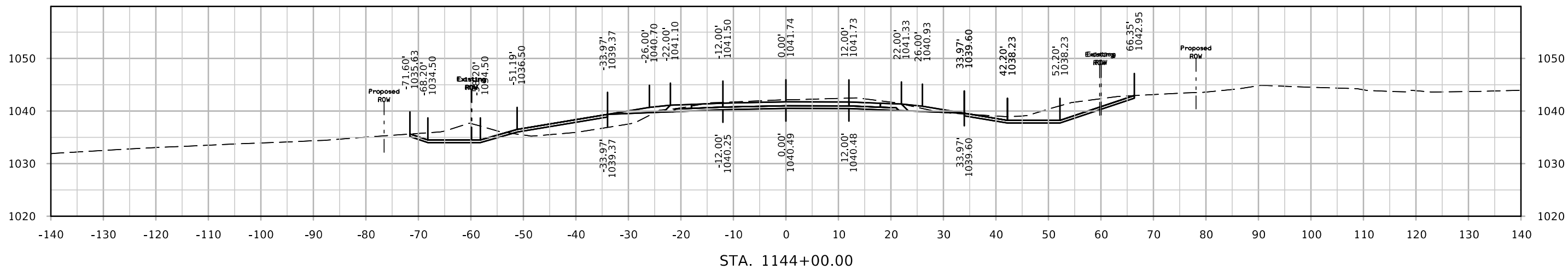


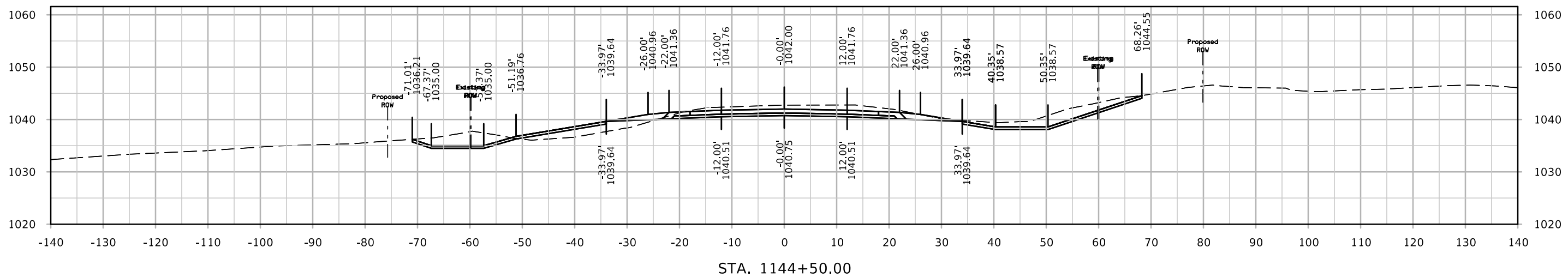
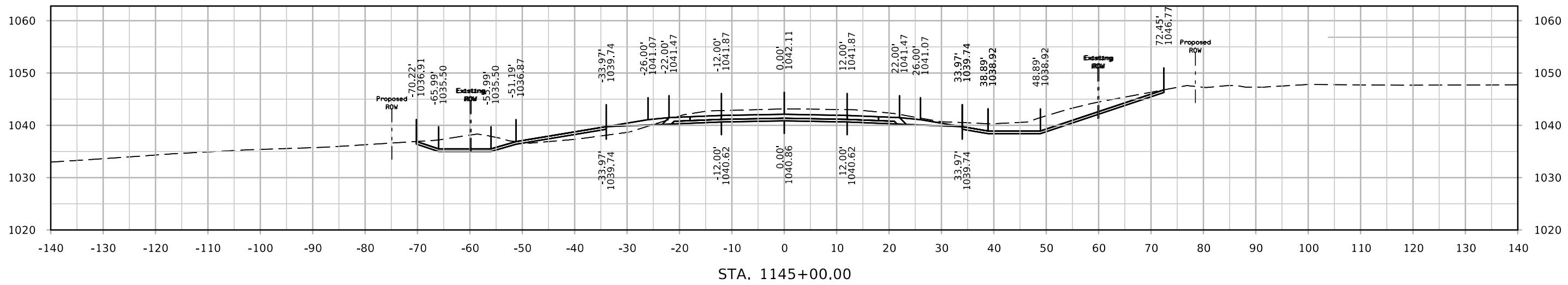
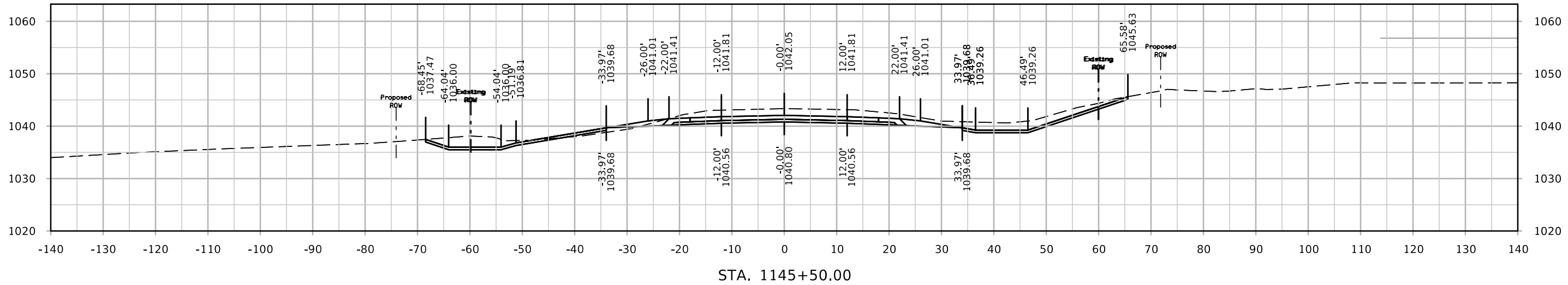


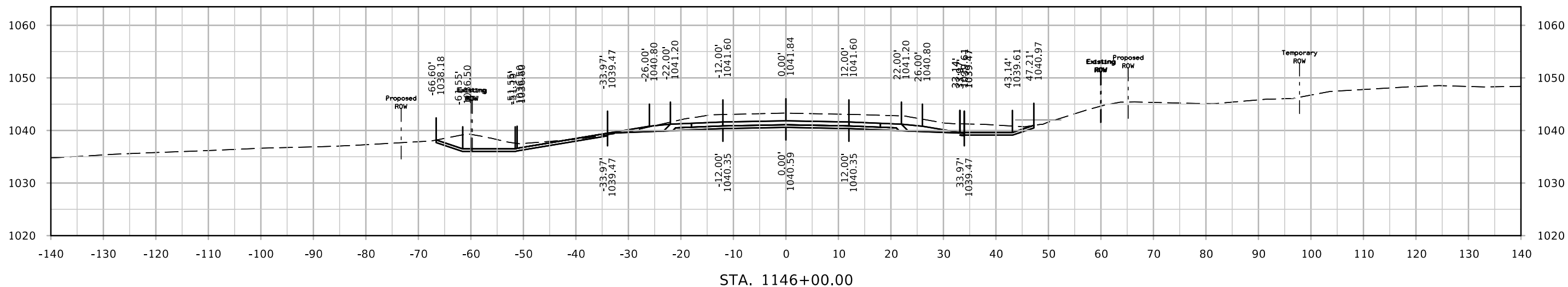
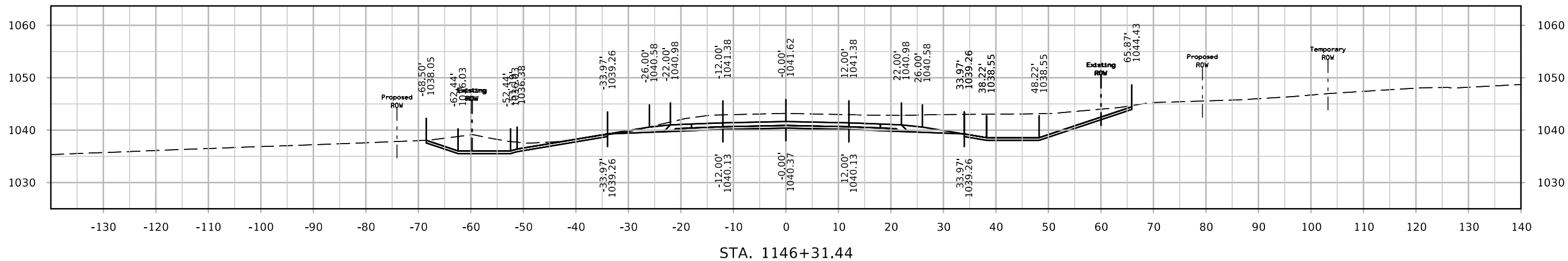
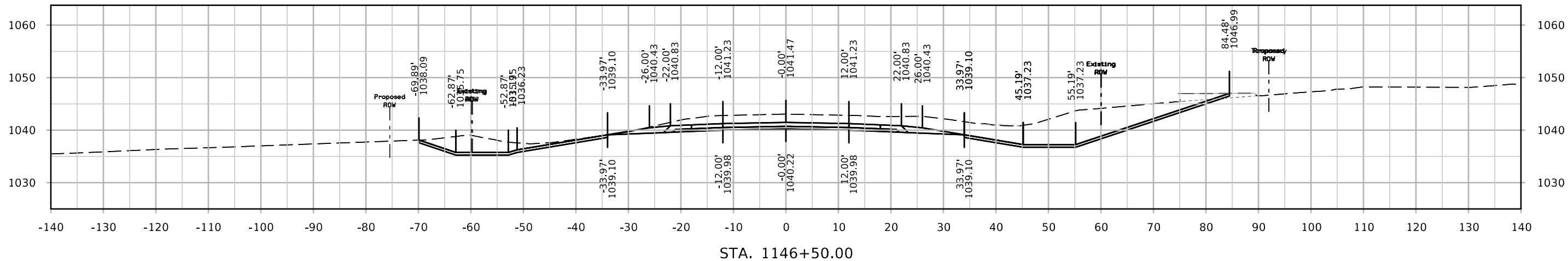


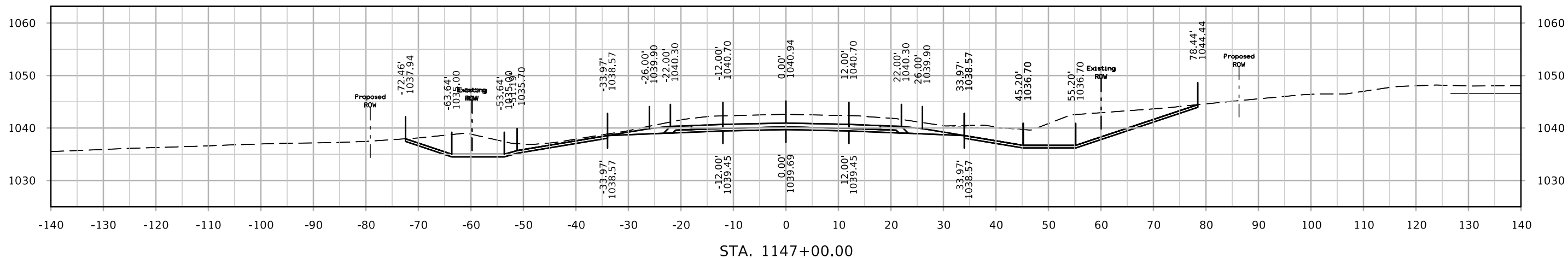
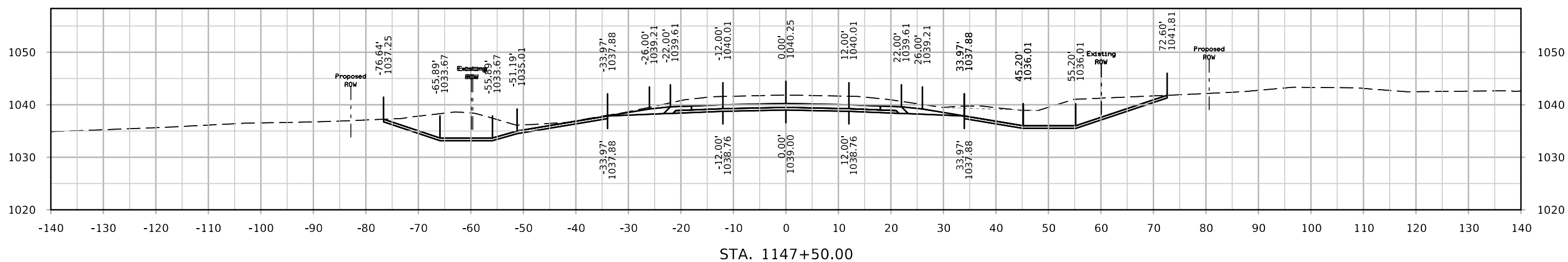
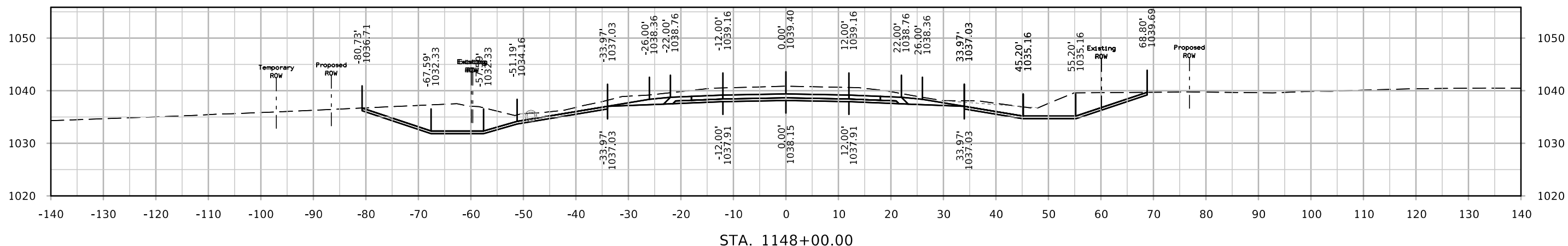


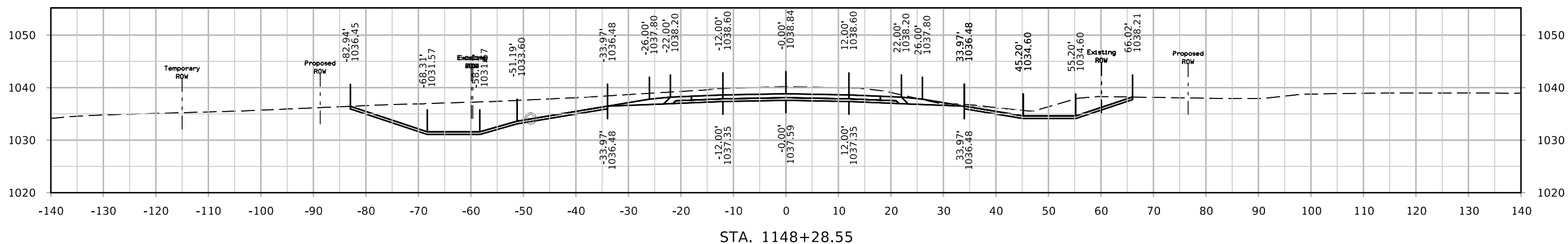
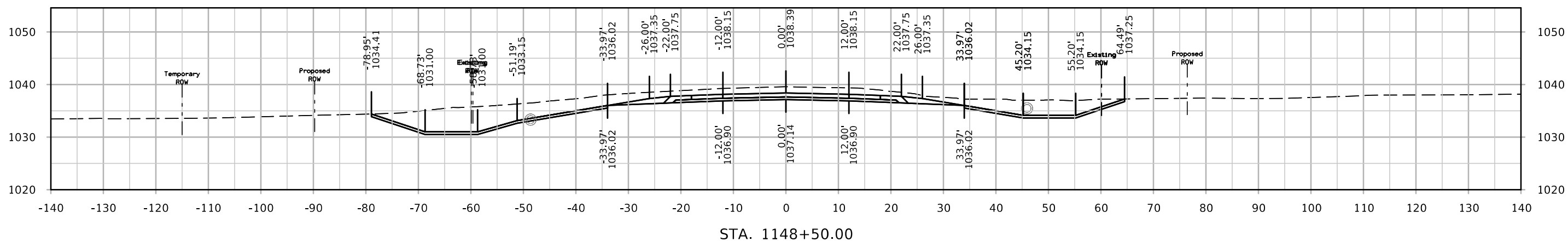
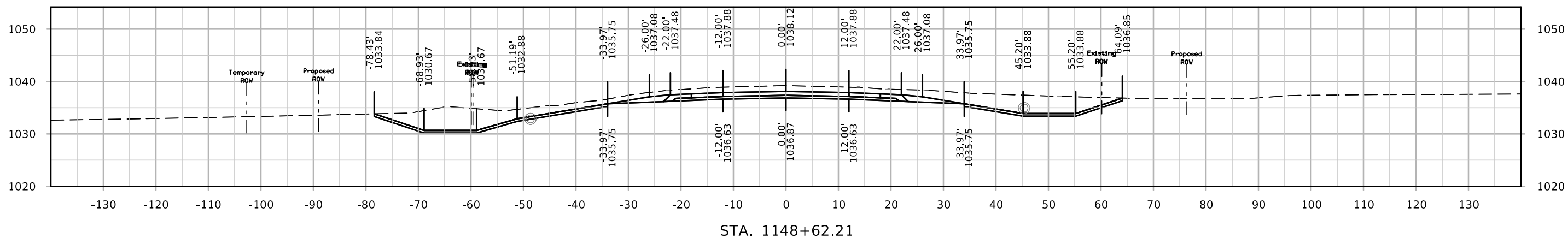


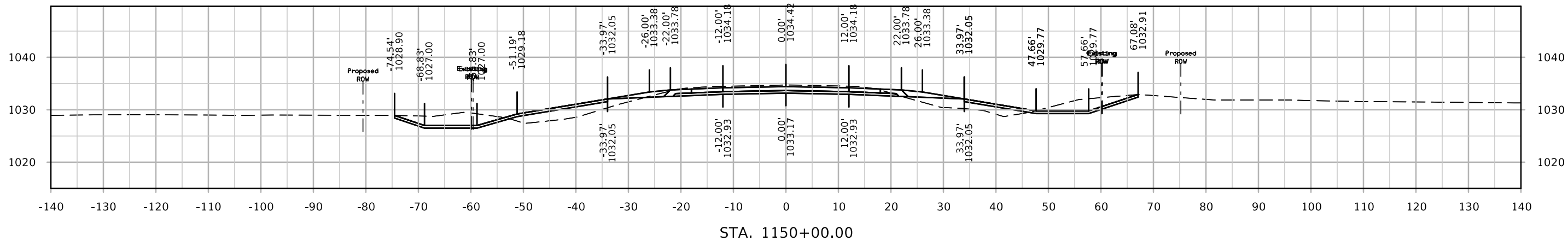




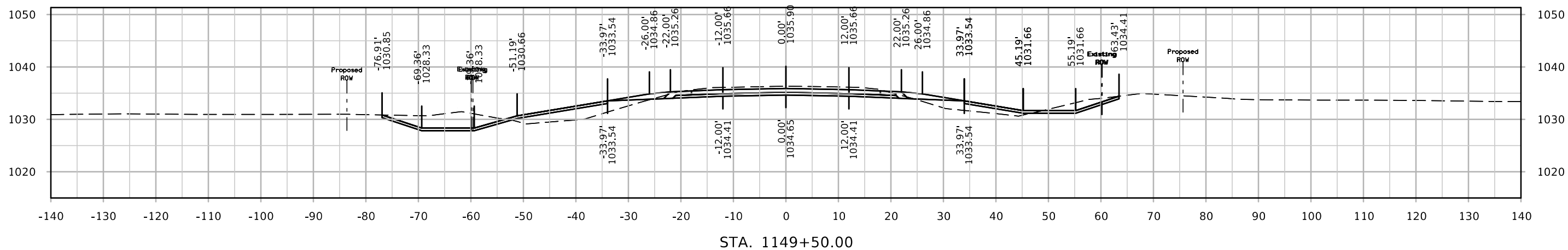




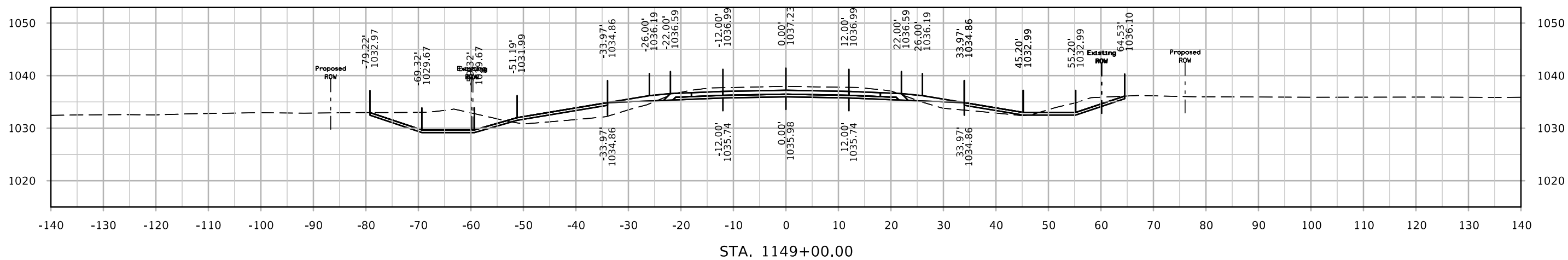




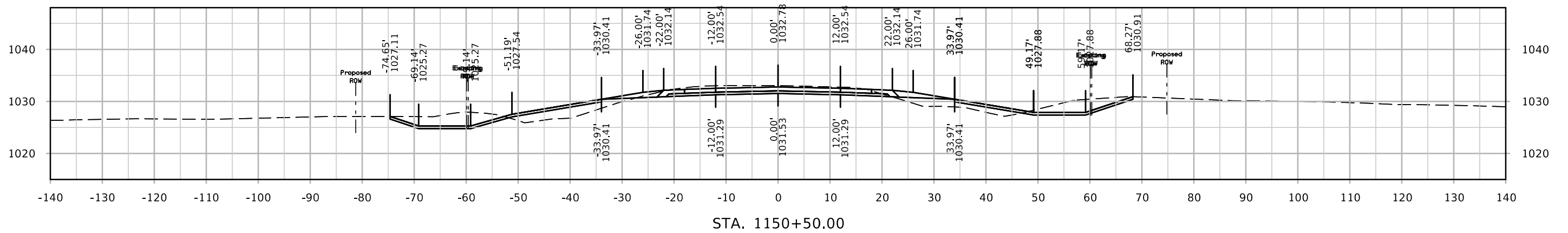
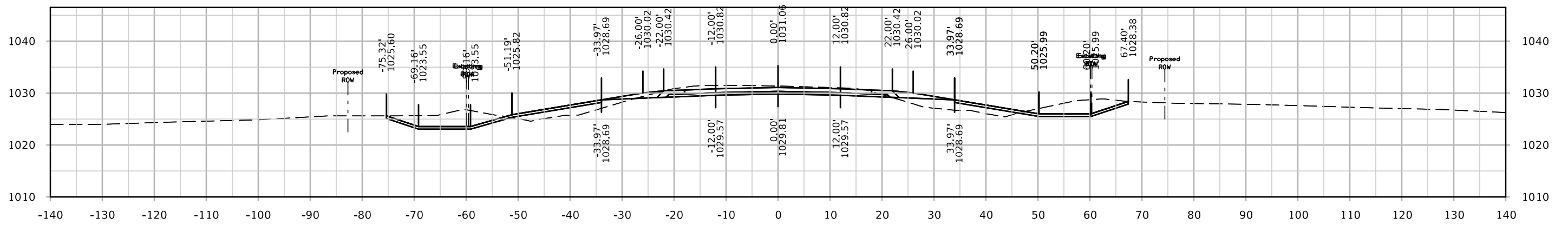
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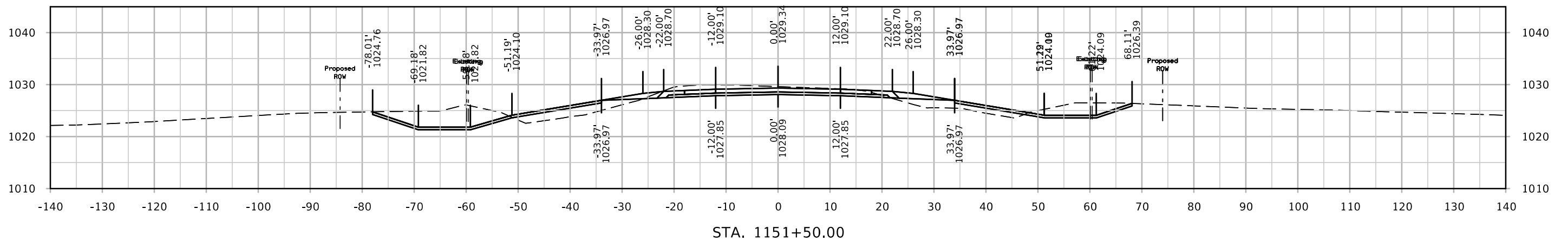
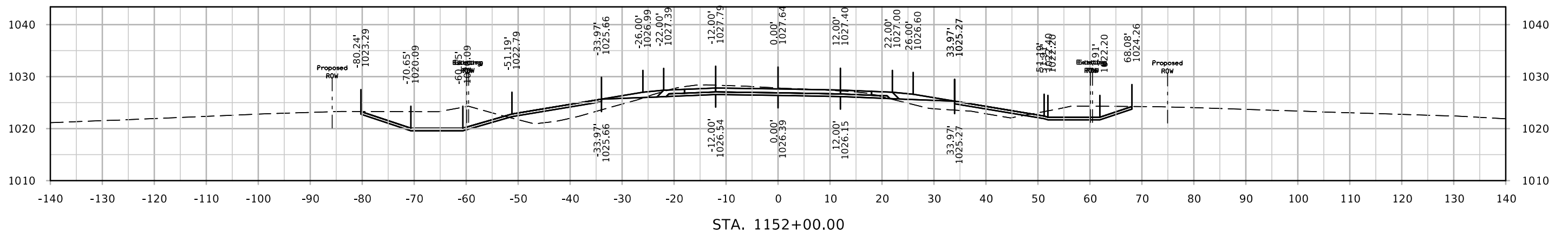
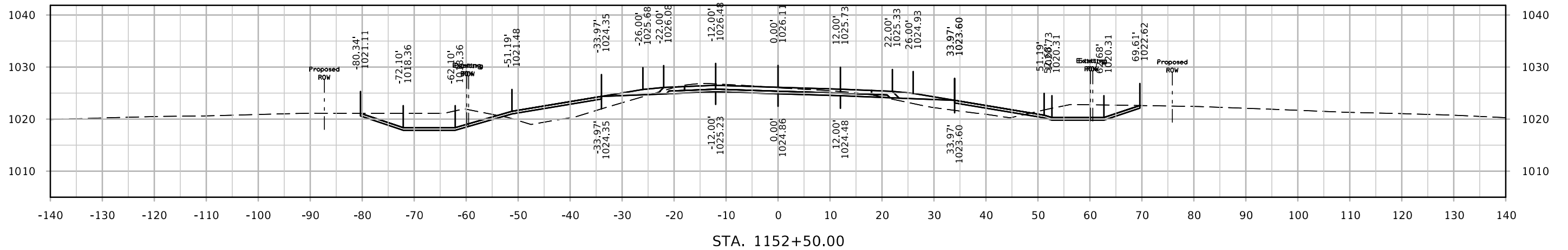


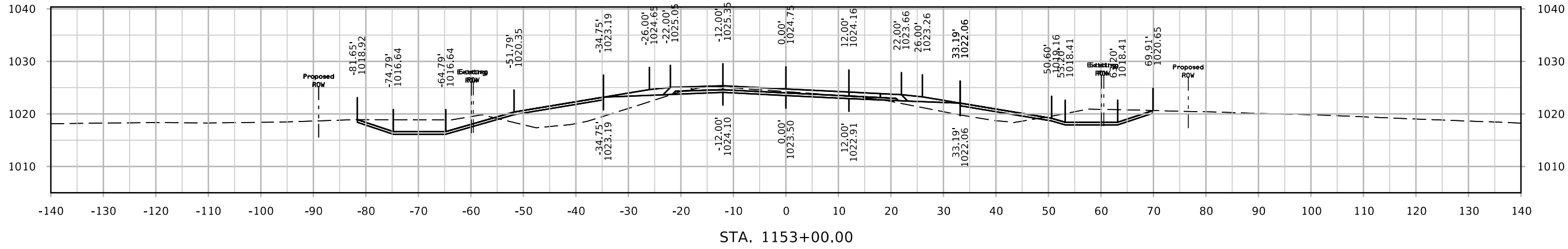
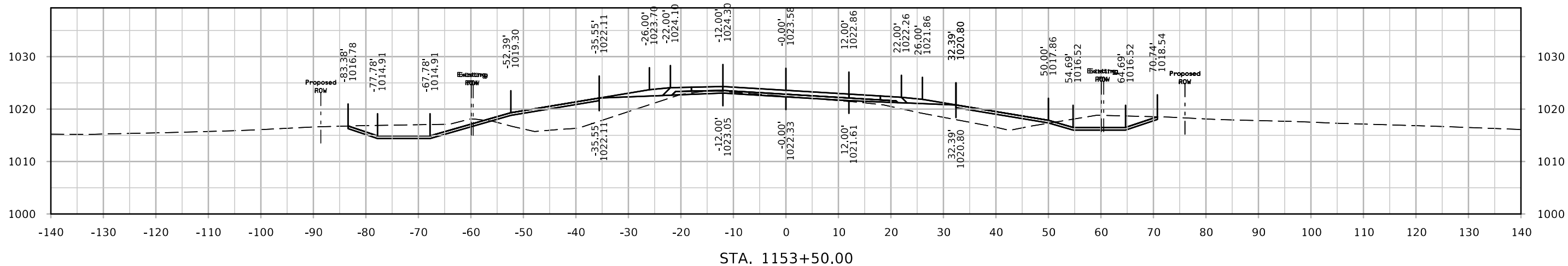
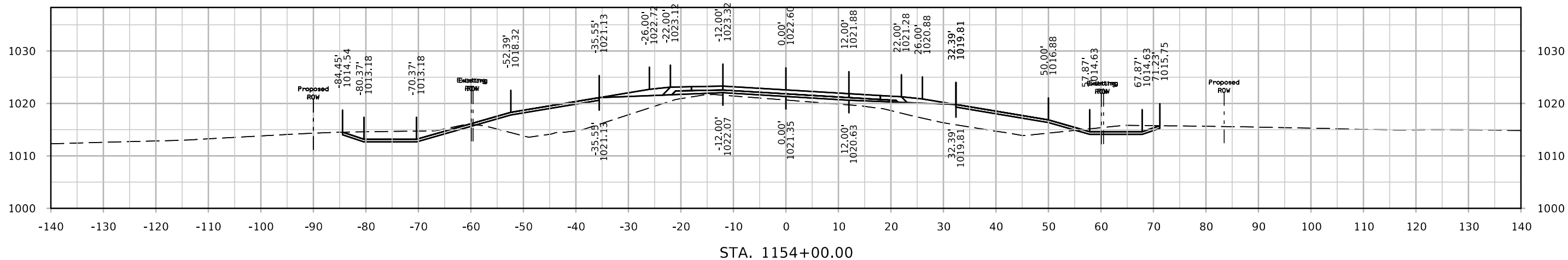
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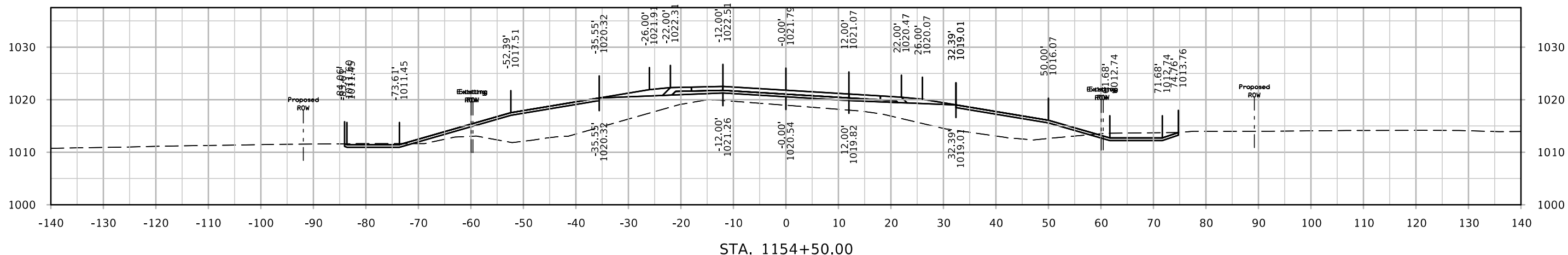
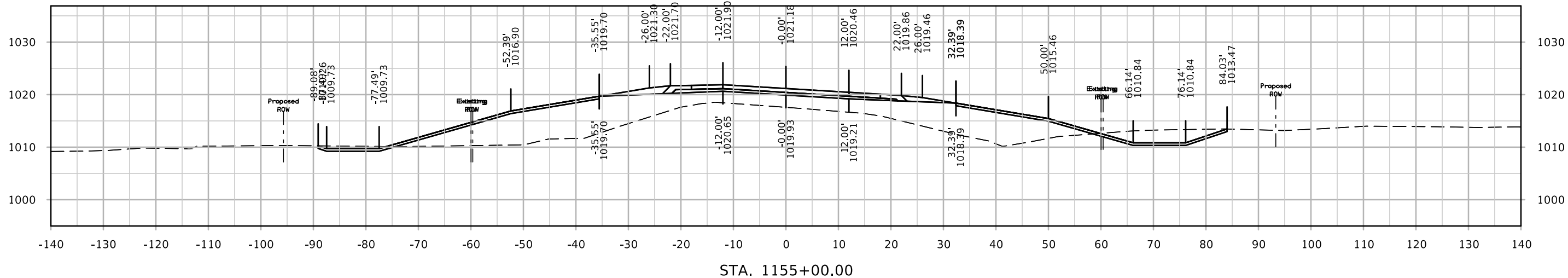
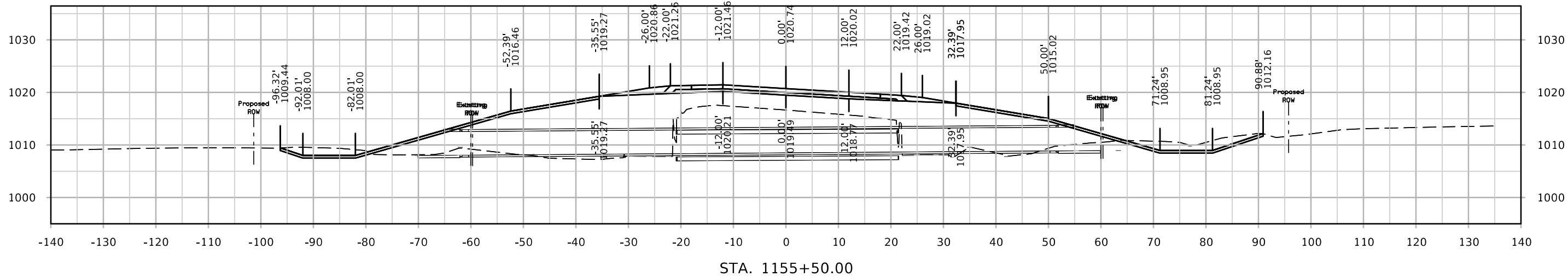


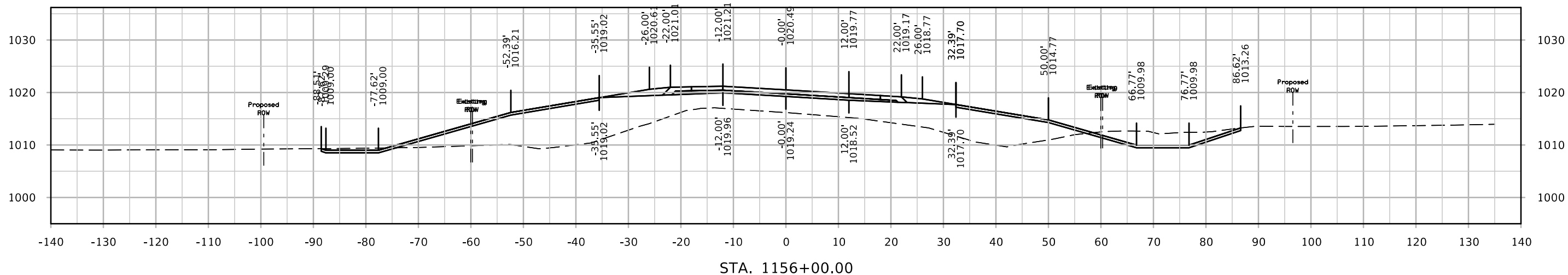
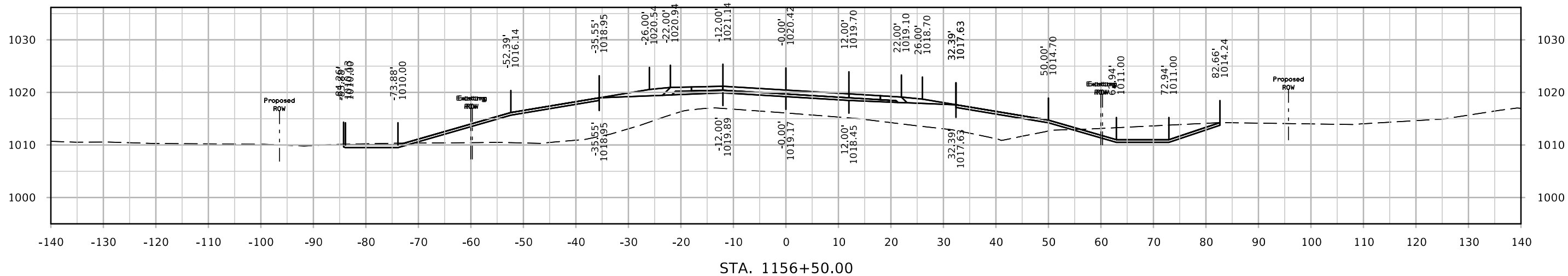
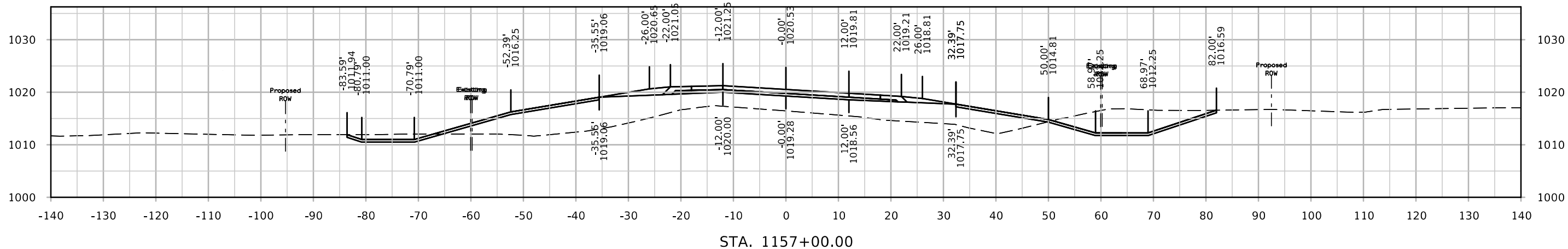
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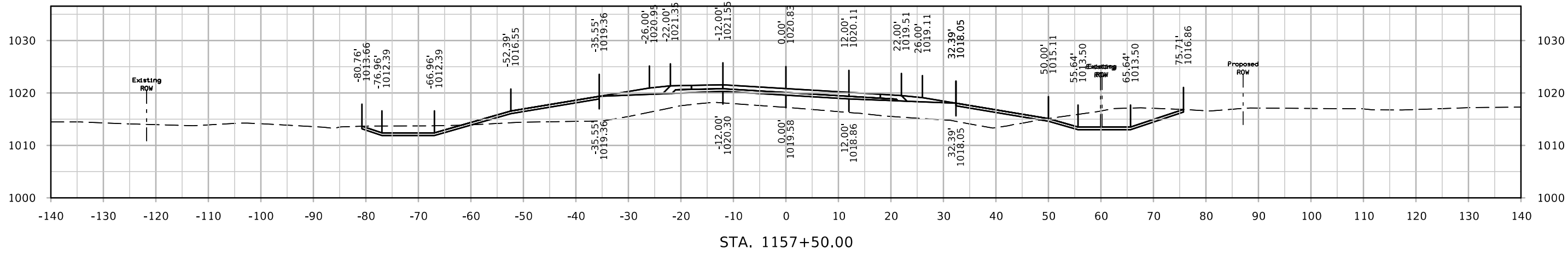
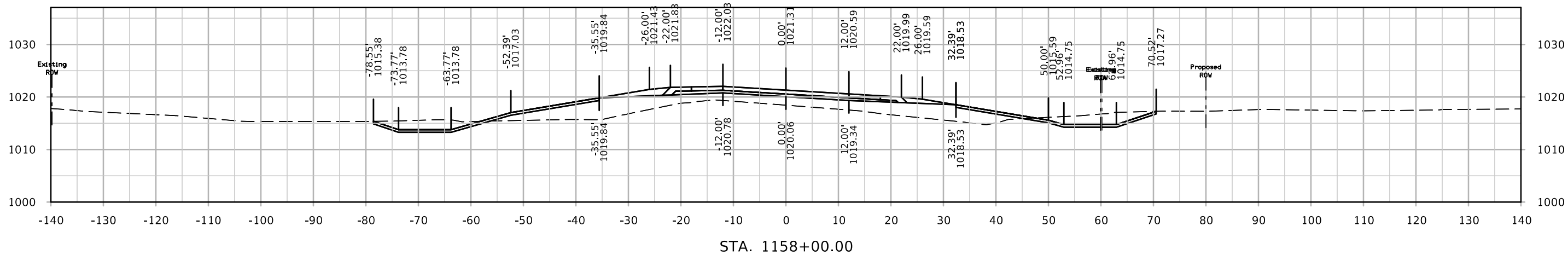
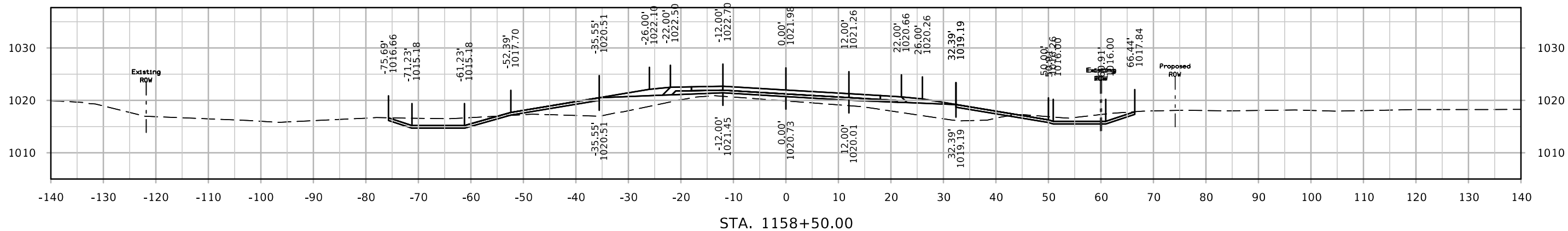


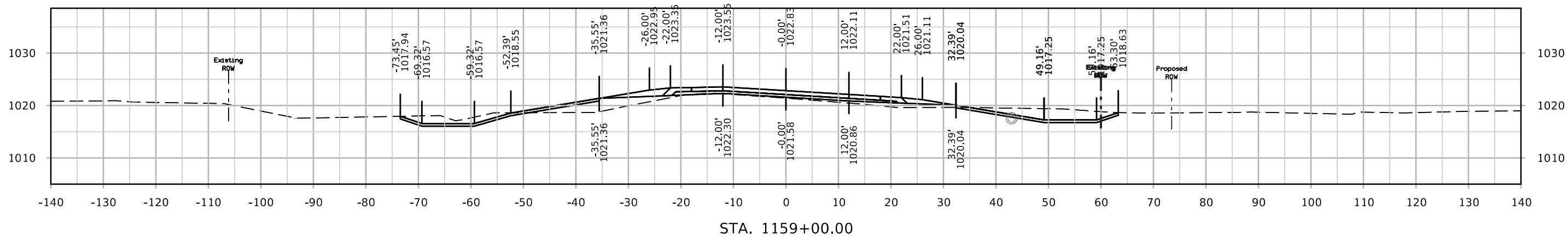
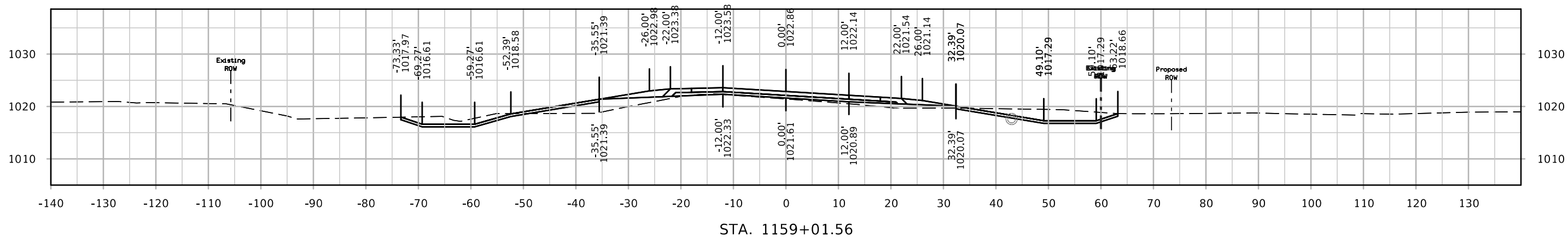
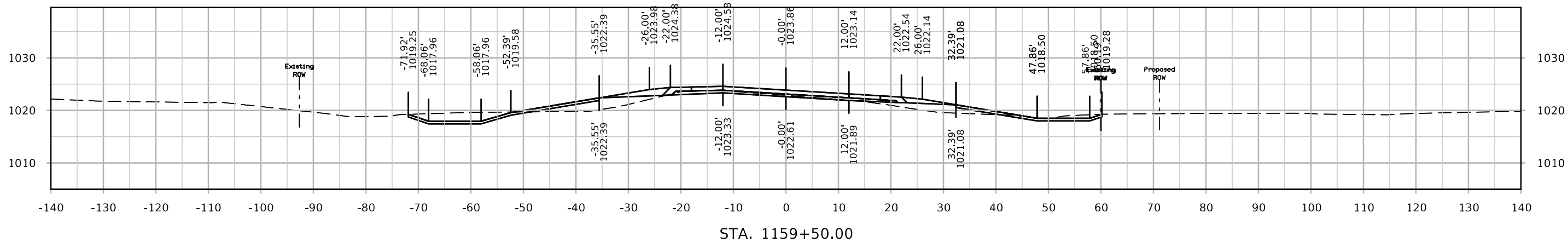


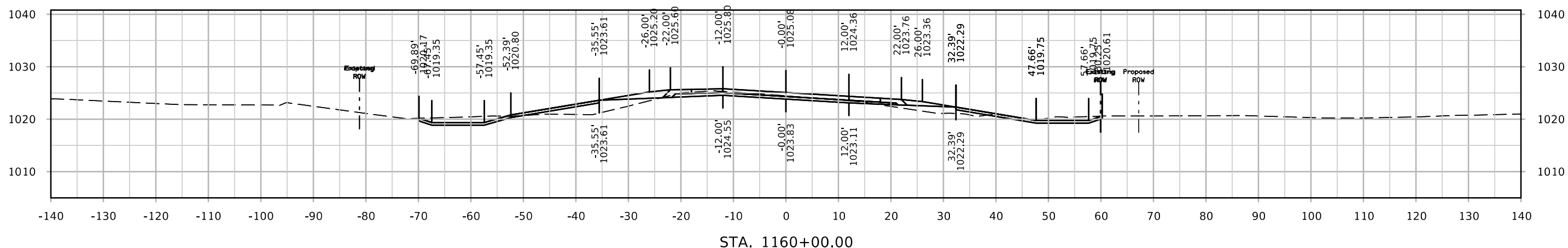
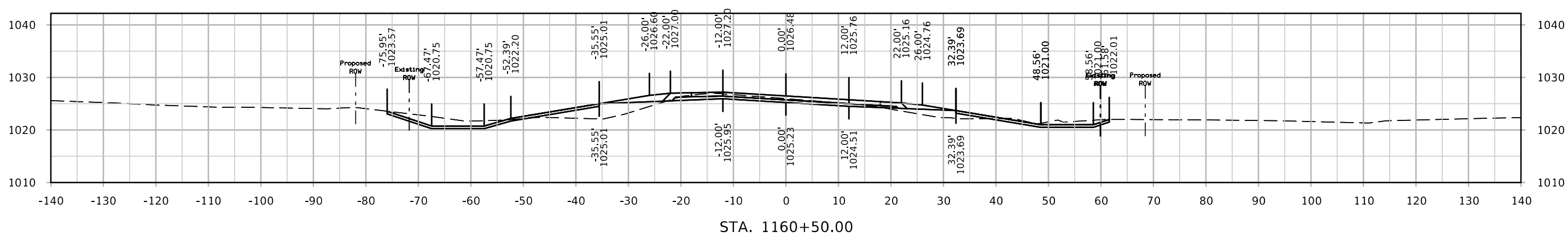
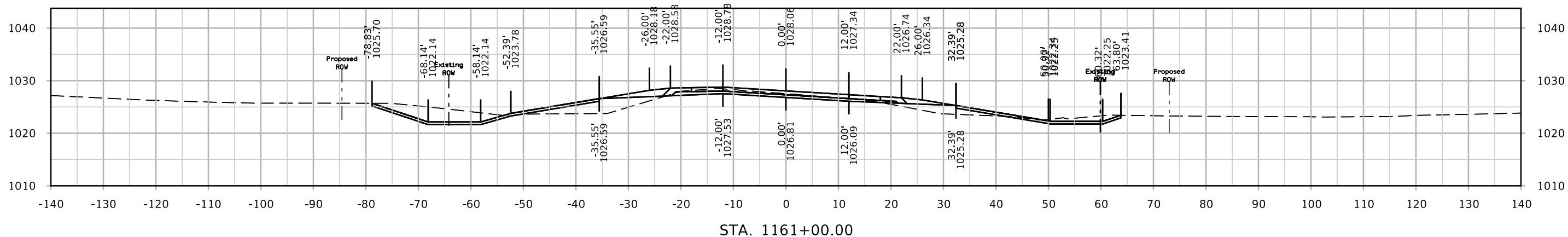


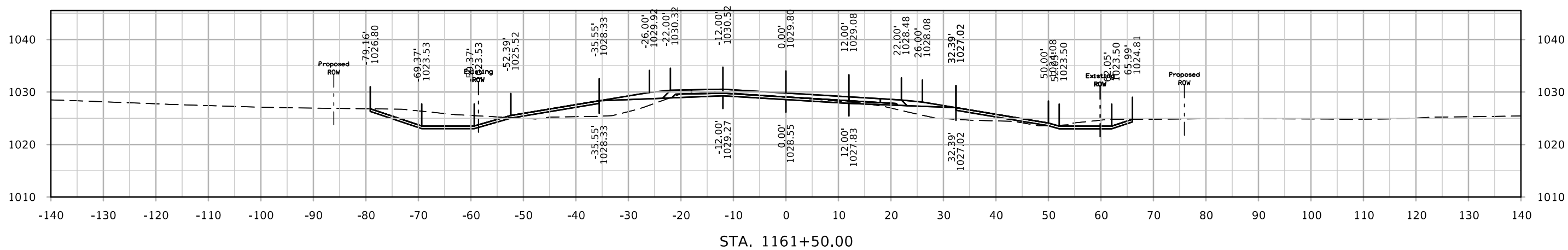
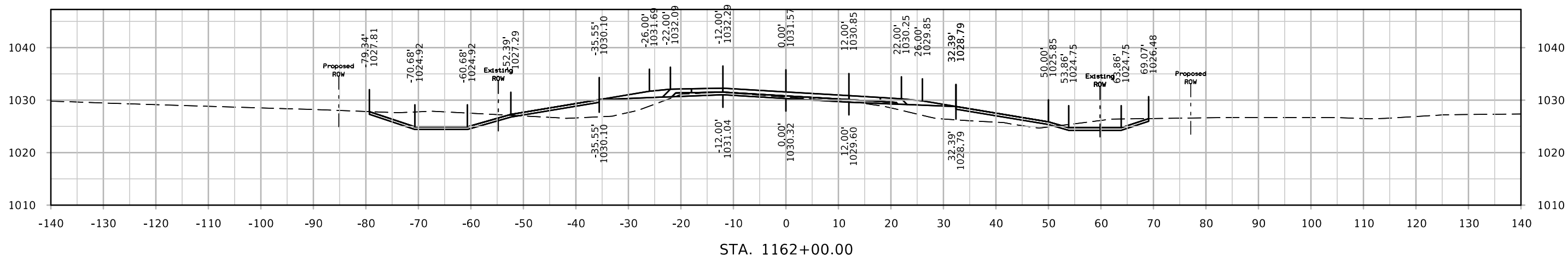
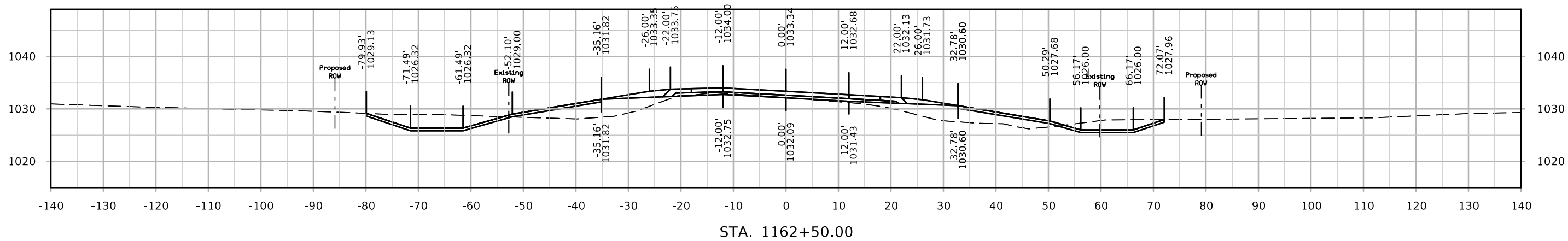


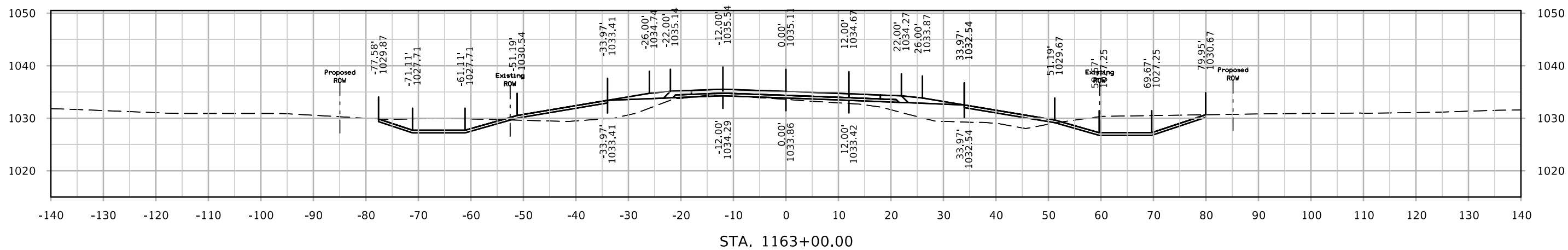
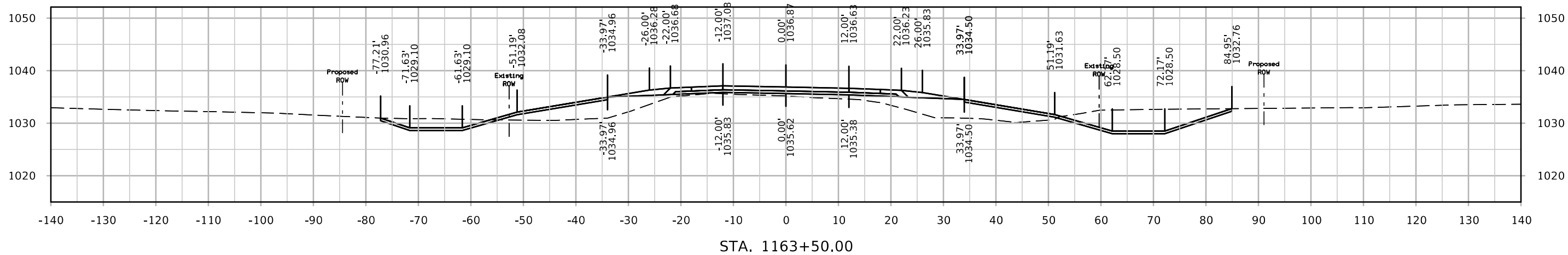
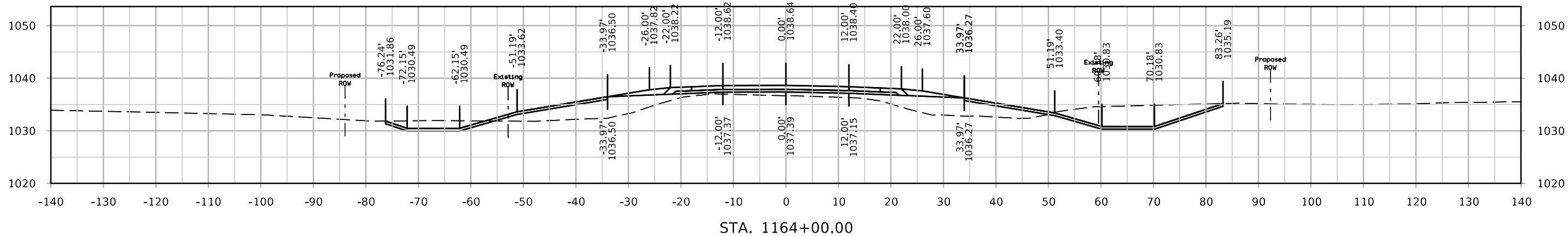


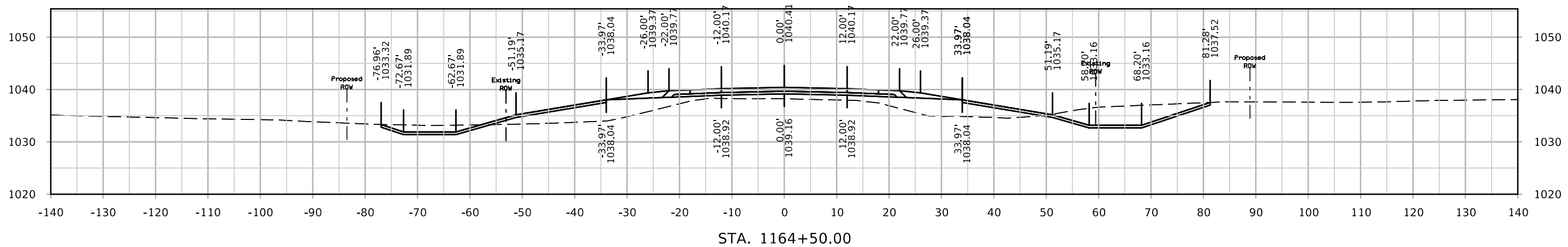
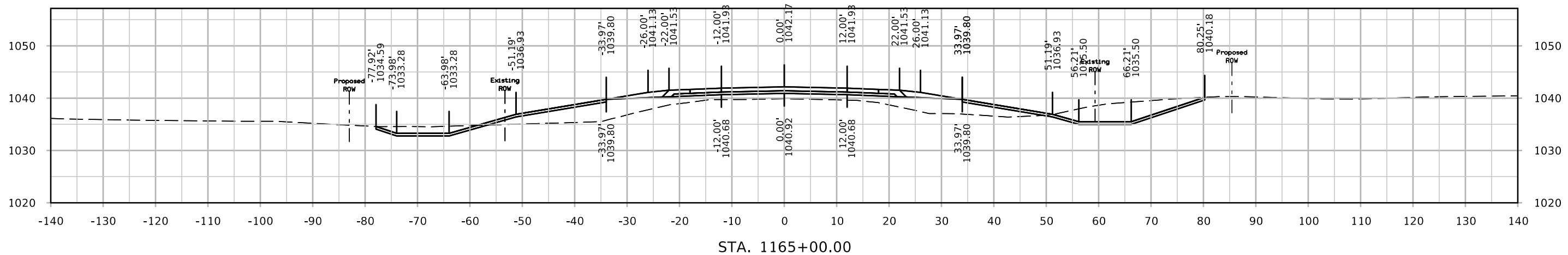
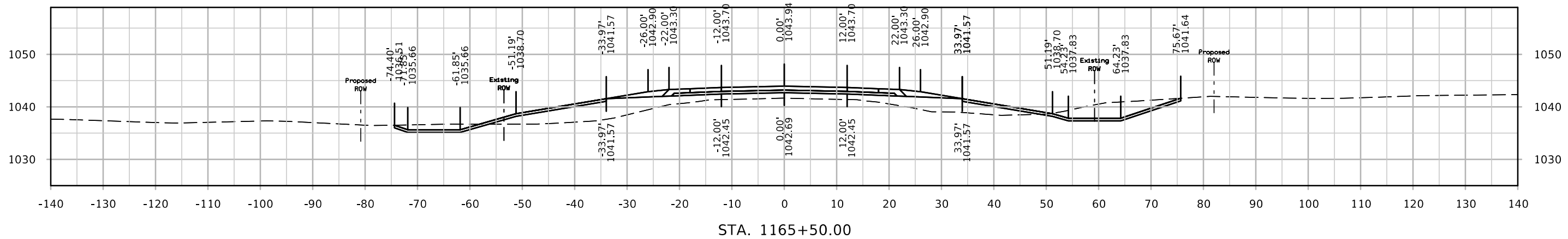


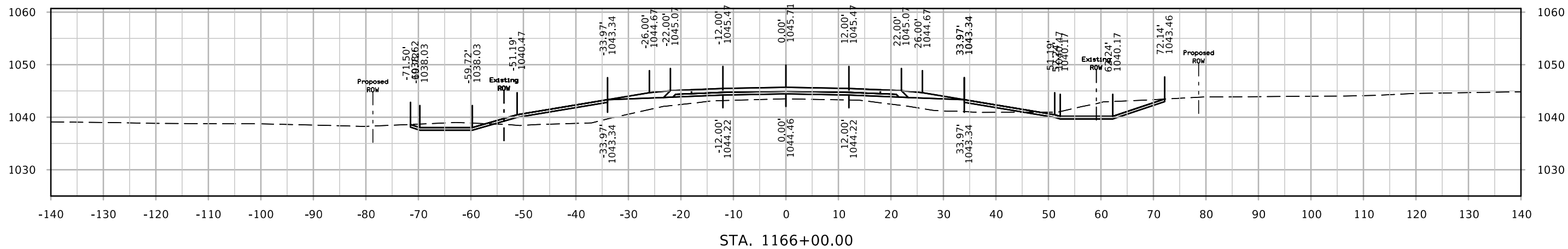
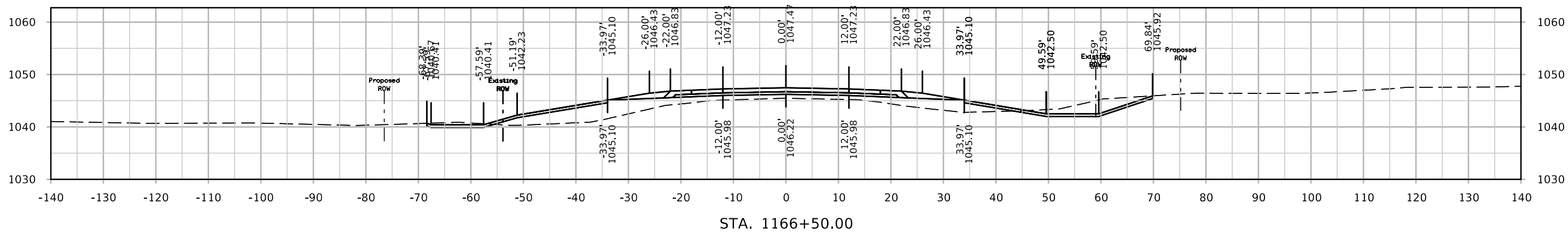
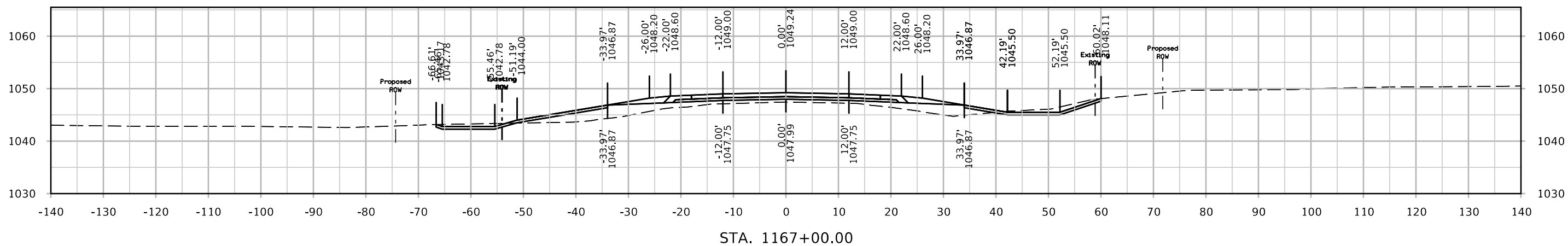


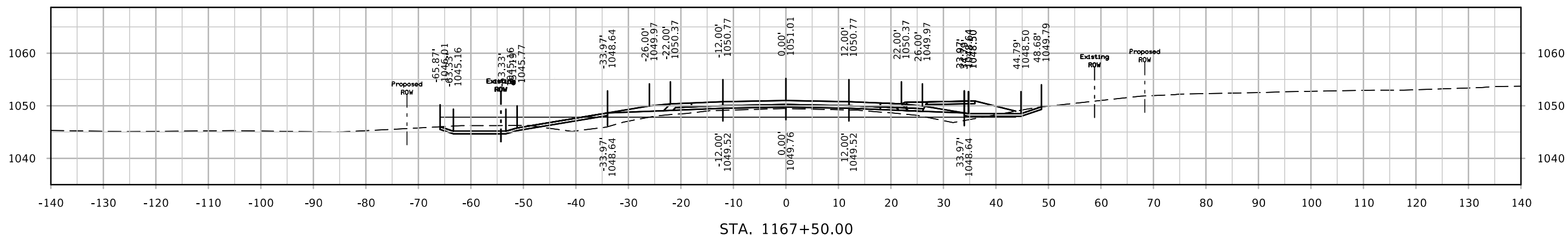
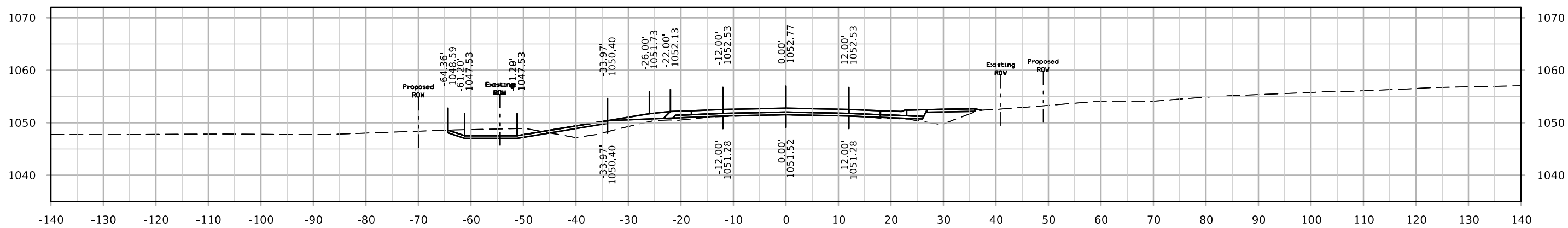
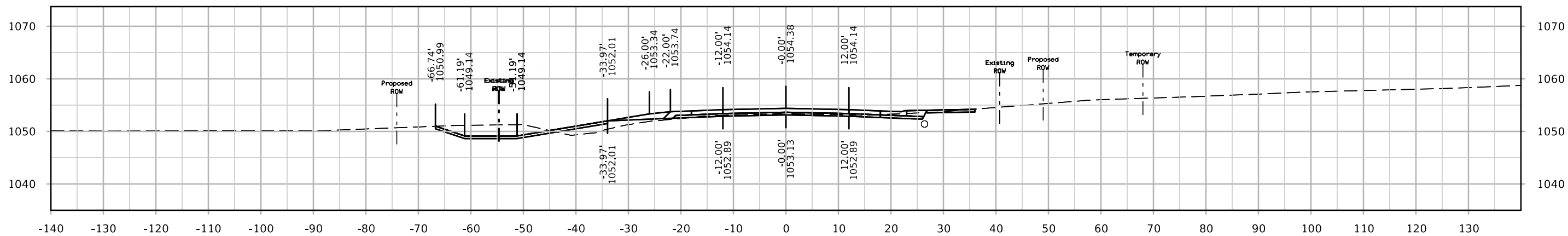


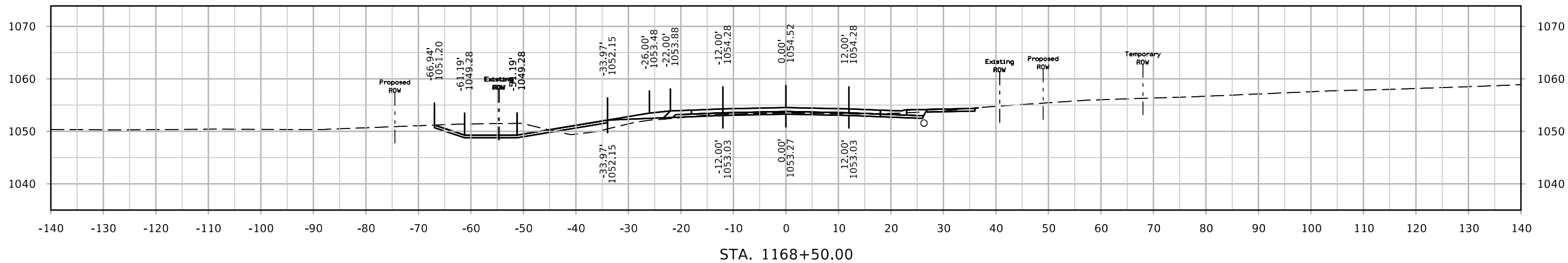
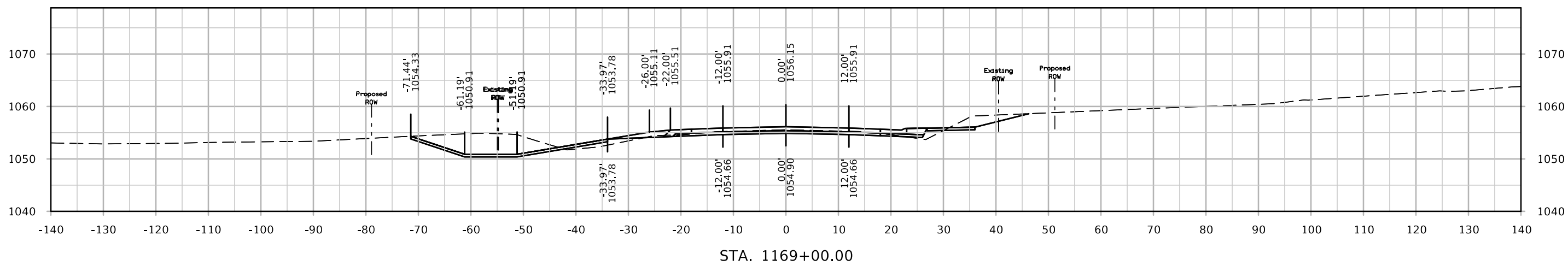
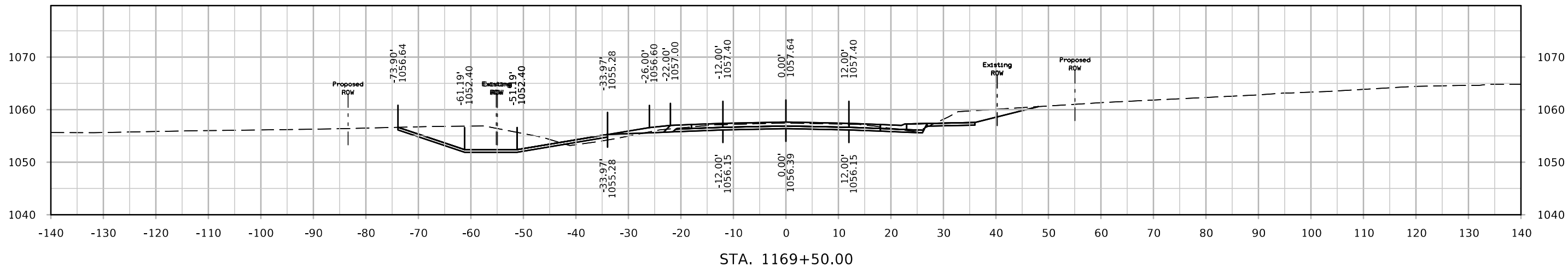


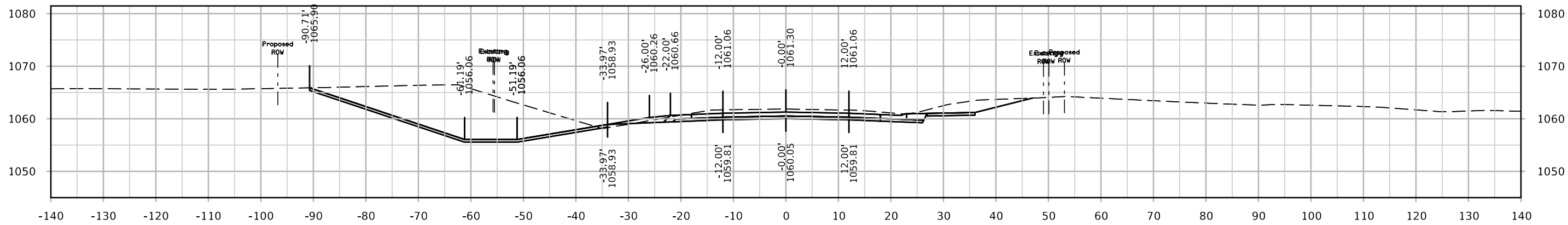




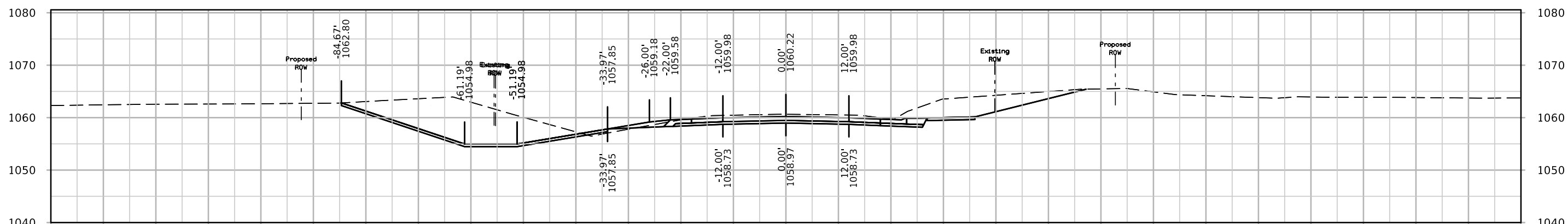




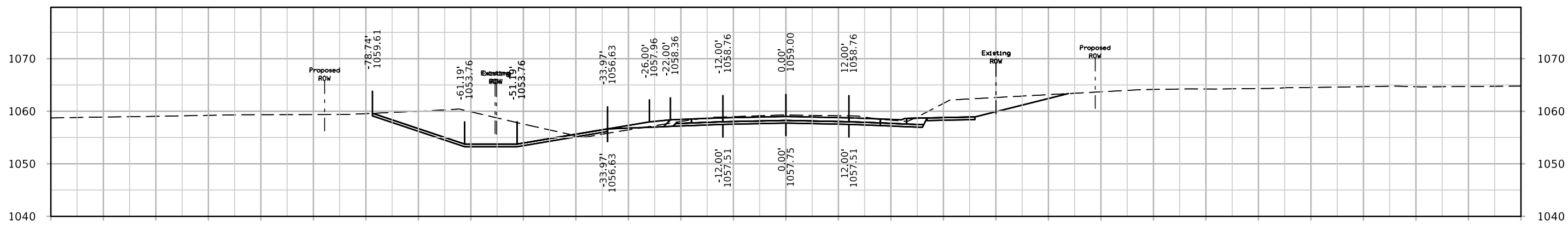




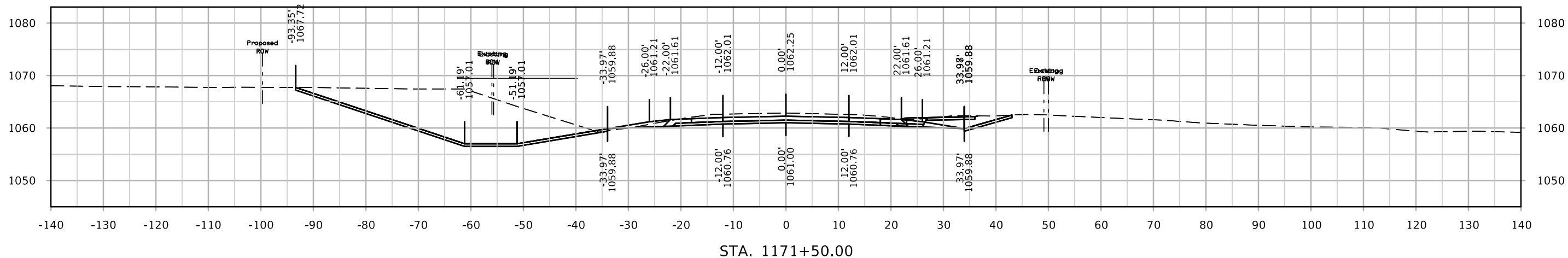
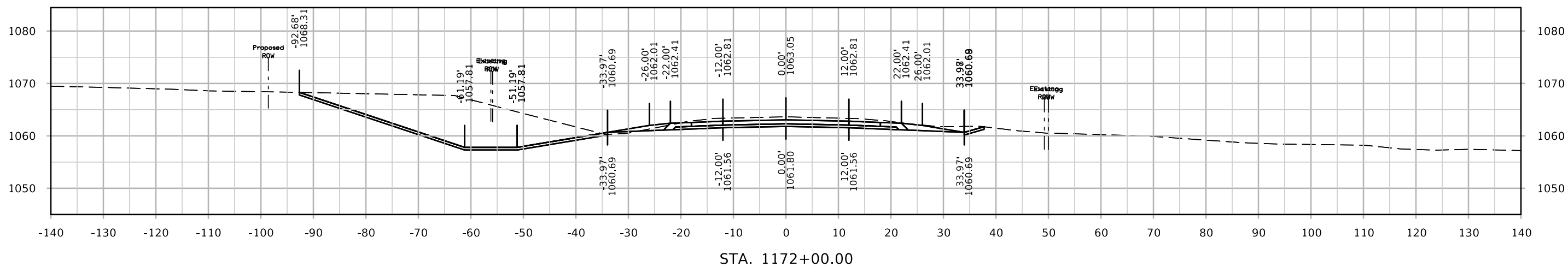
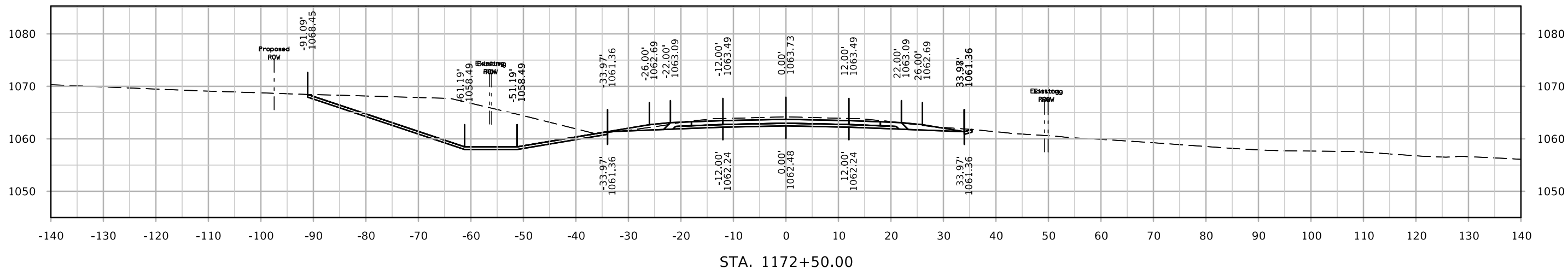
STA. 1171+00.00



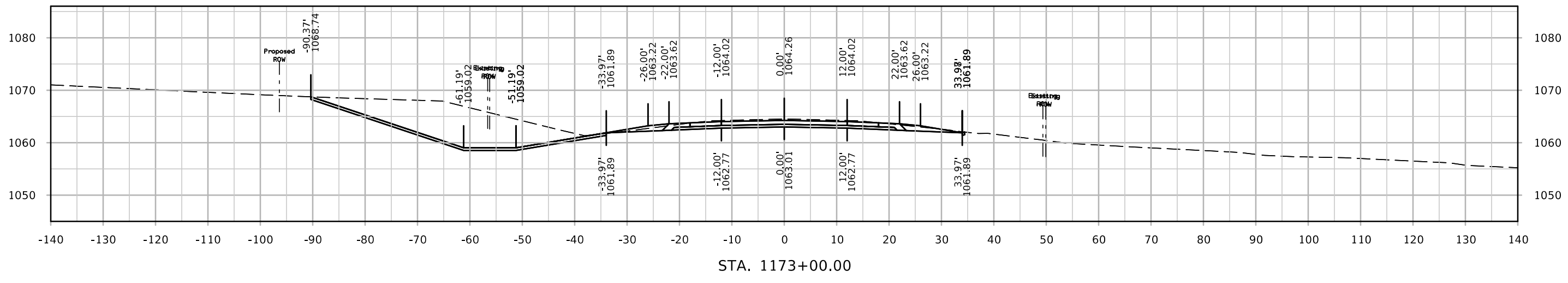
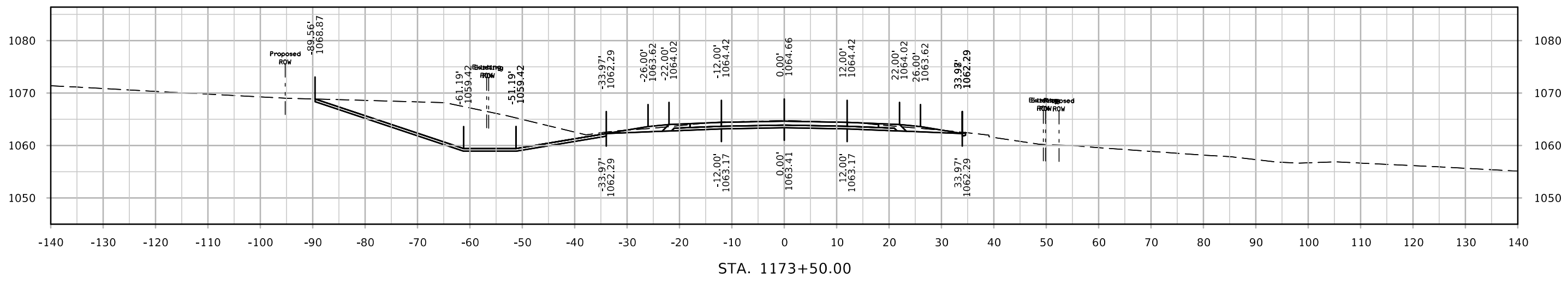
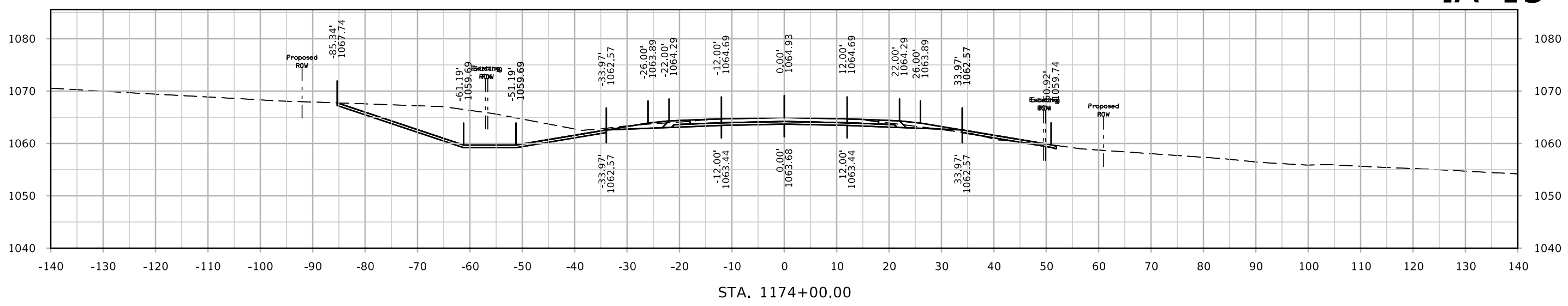
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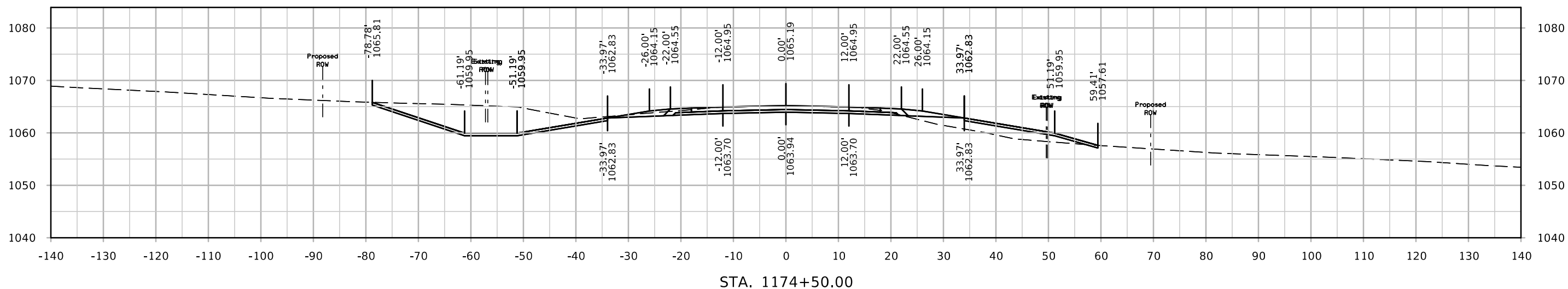
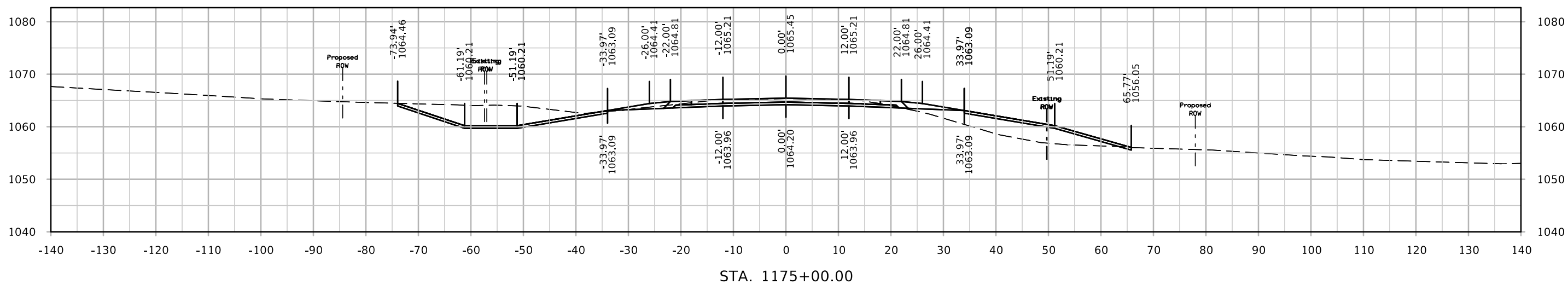
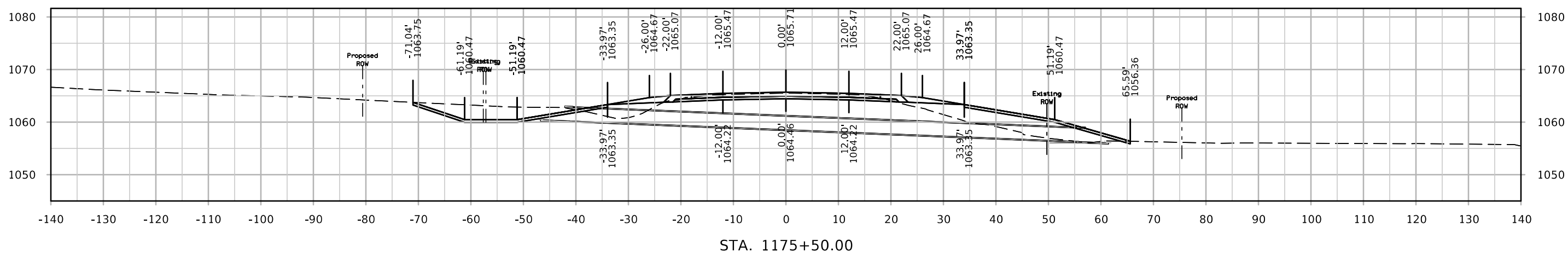
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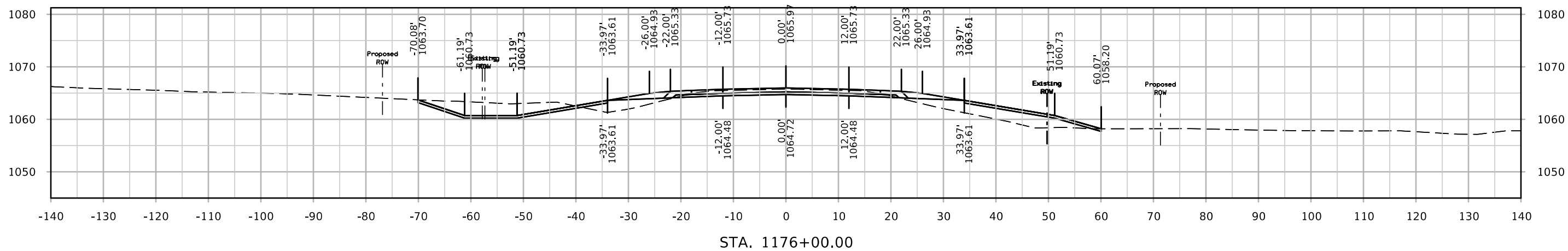
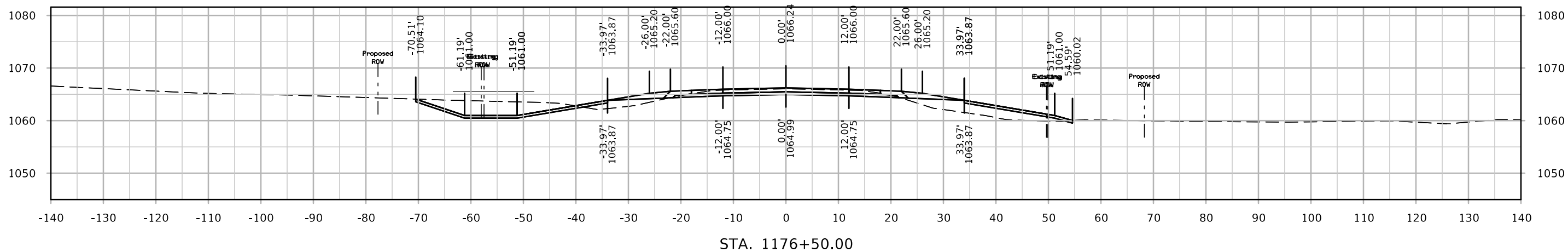
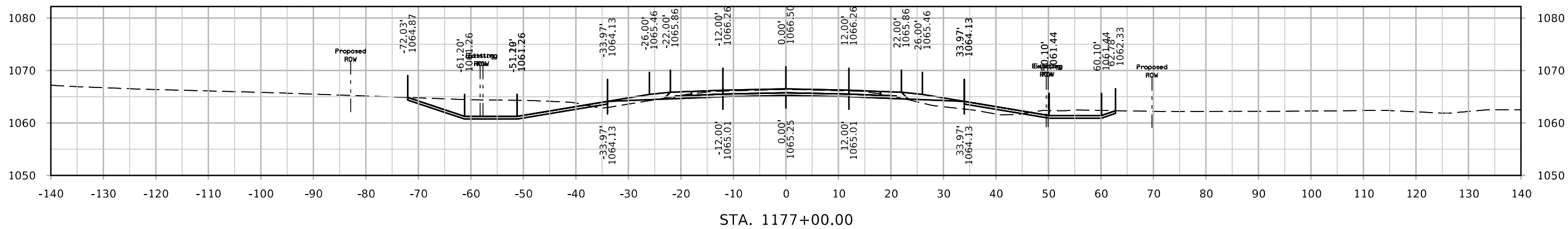


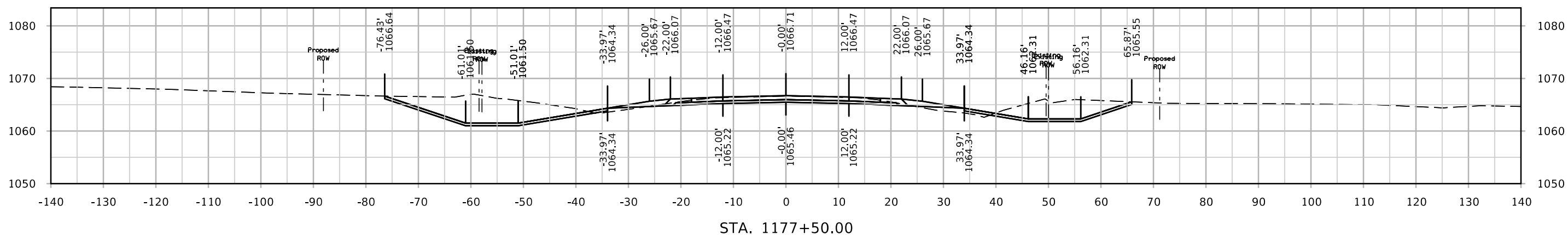
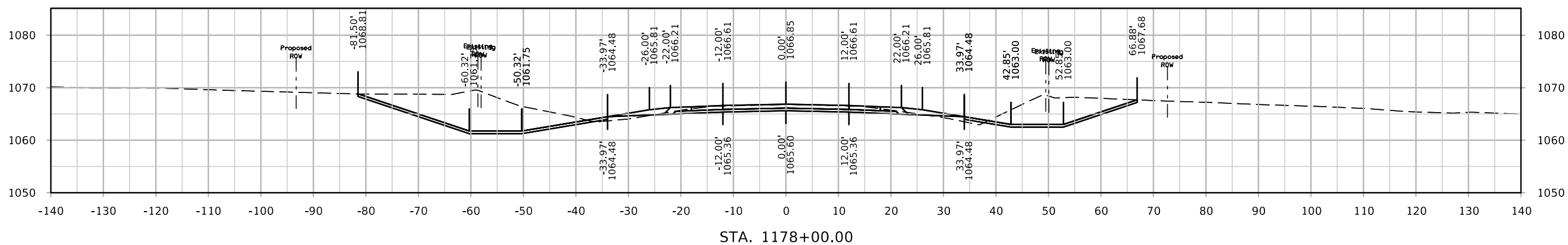
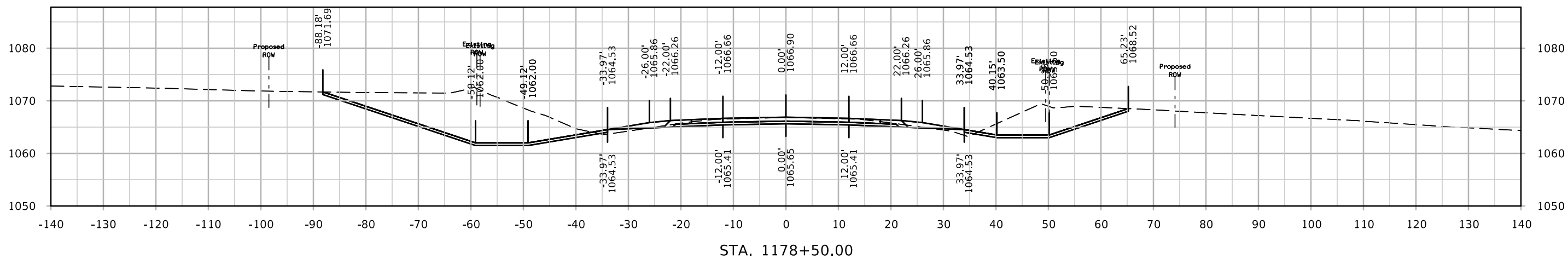
IA 13

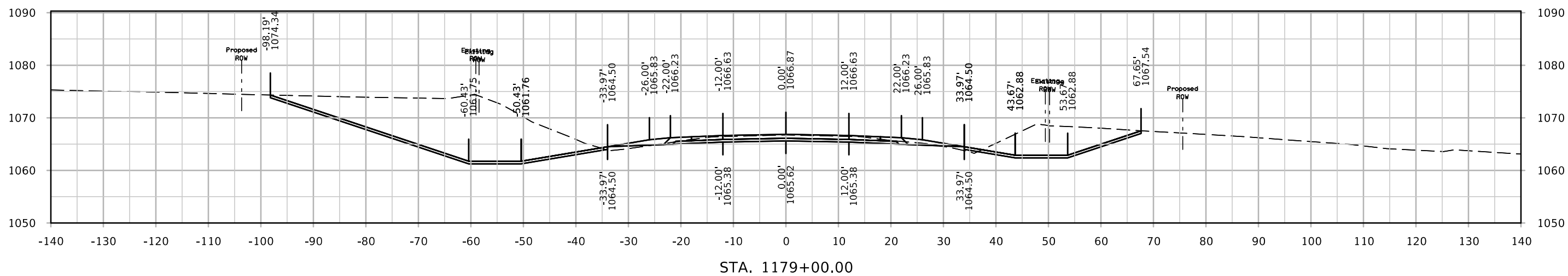
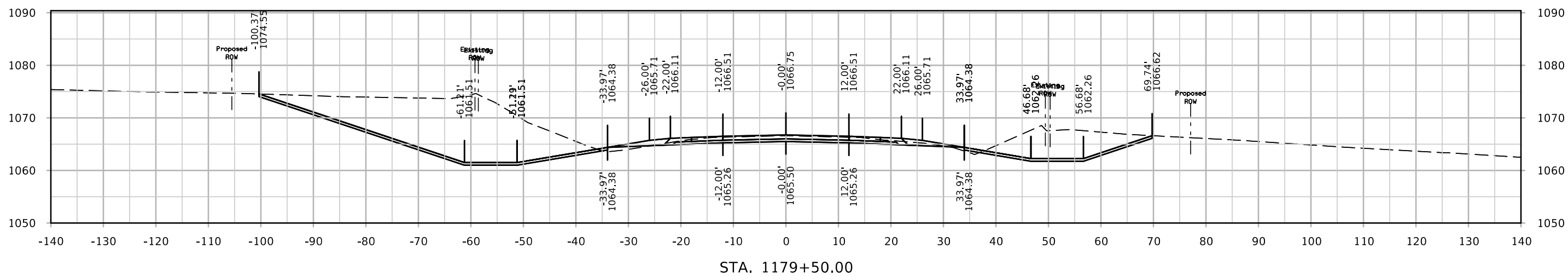
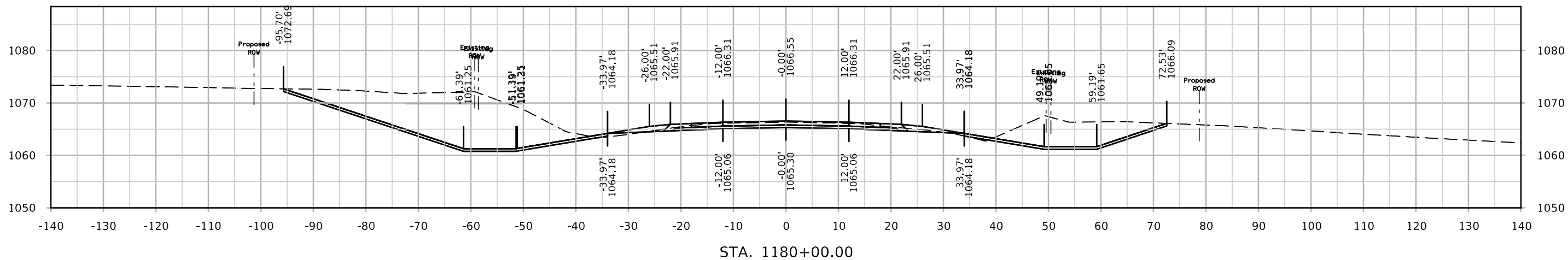


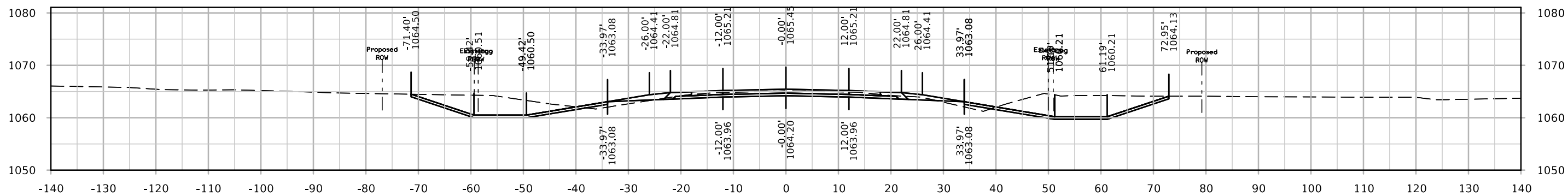
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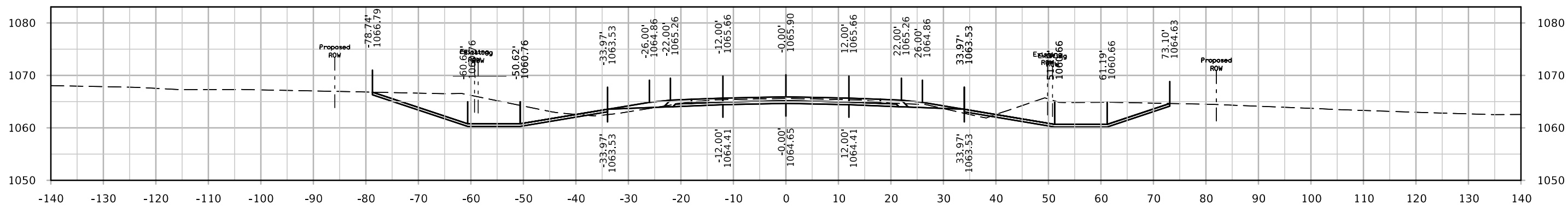




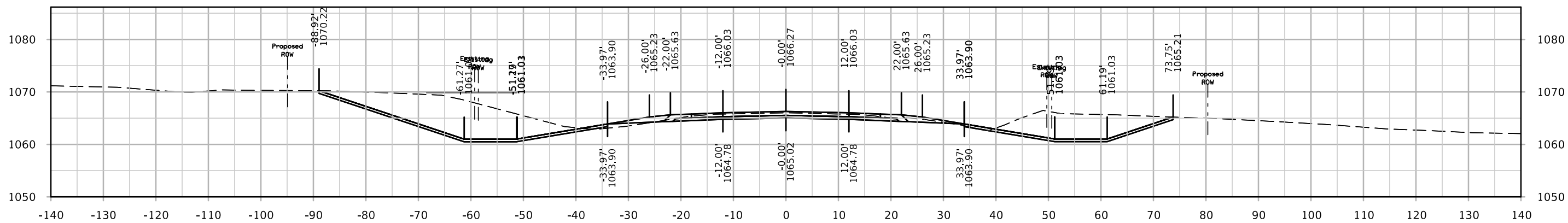




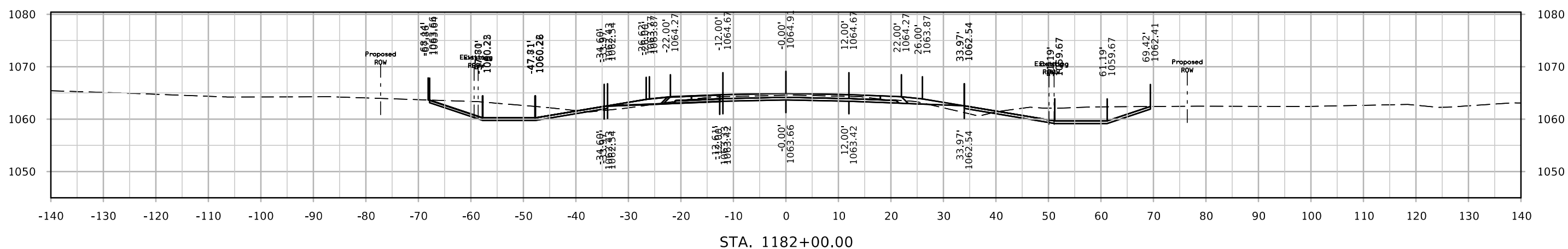
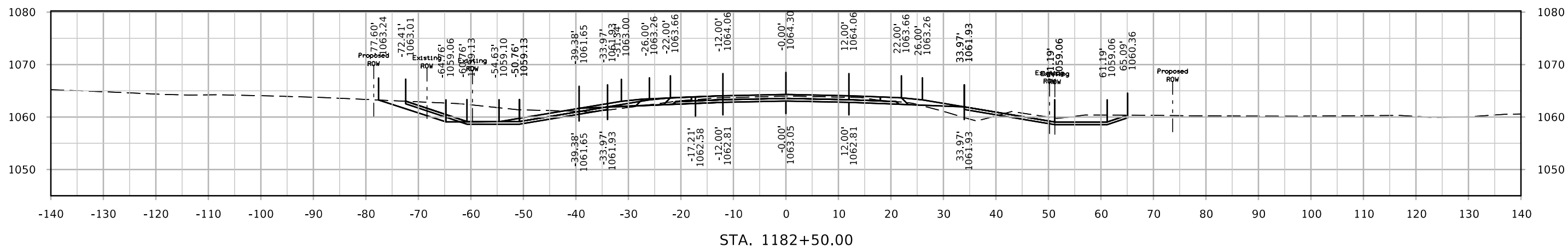
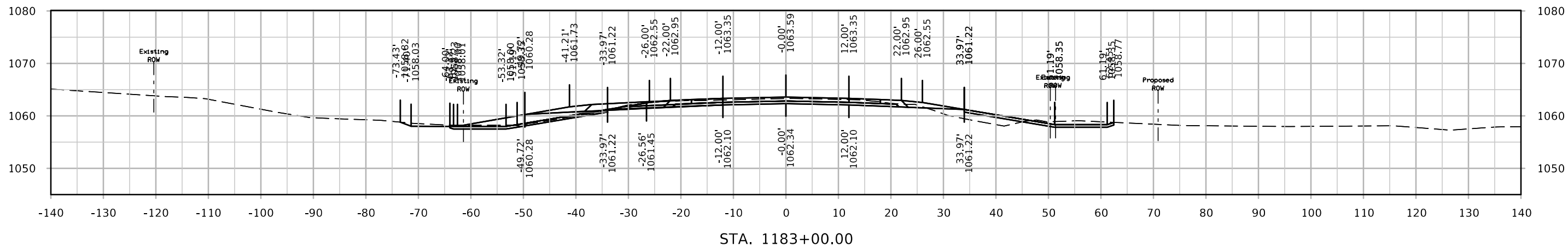
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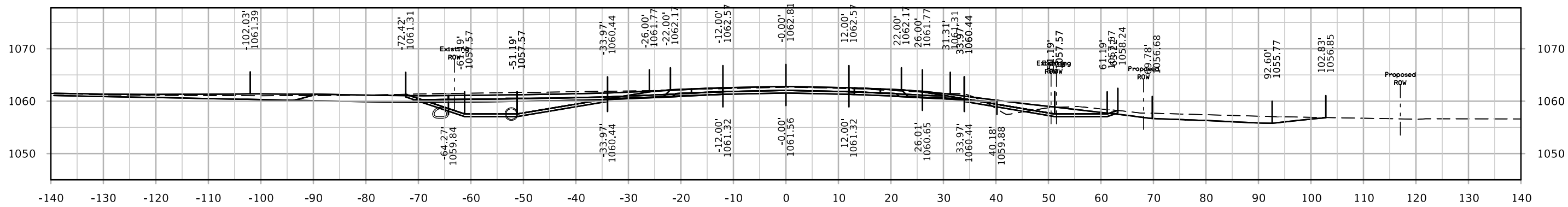
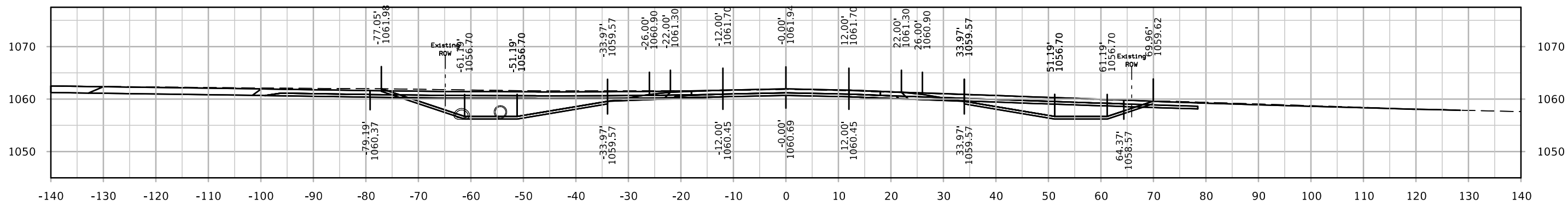
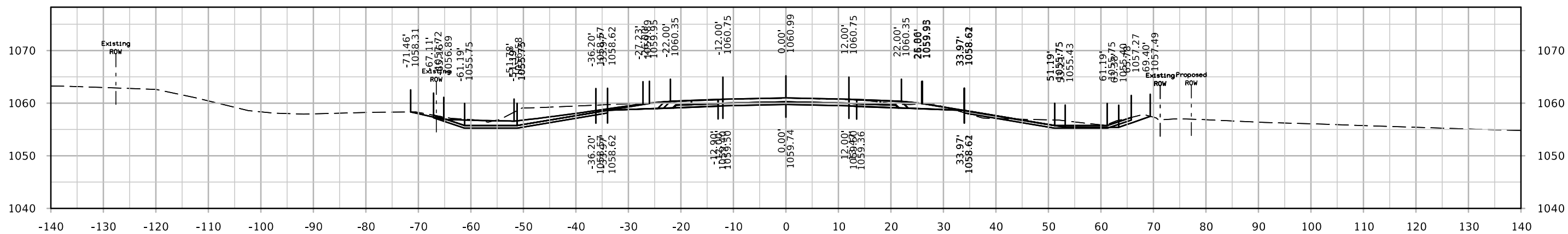


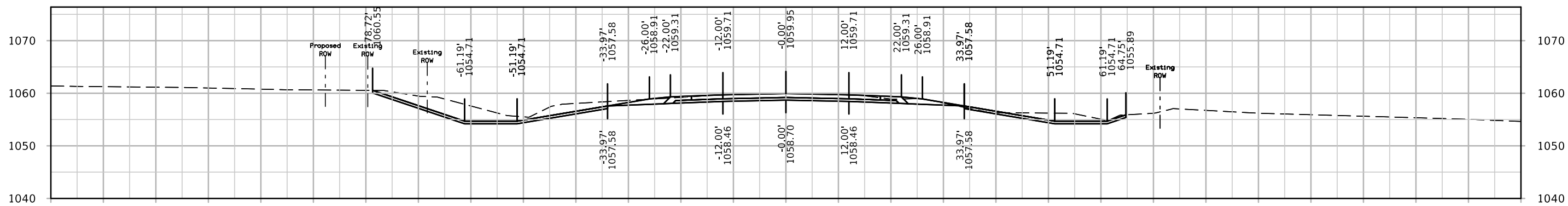
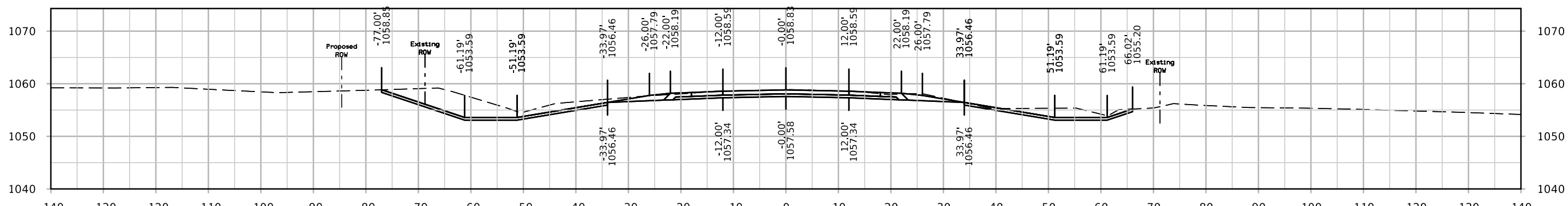
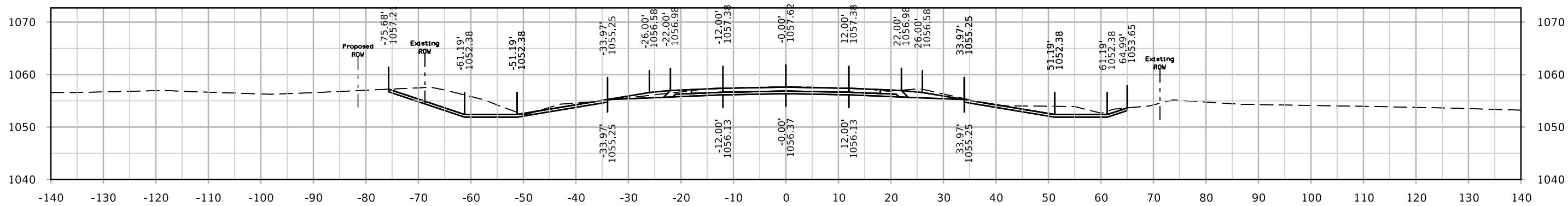
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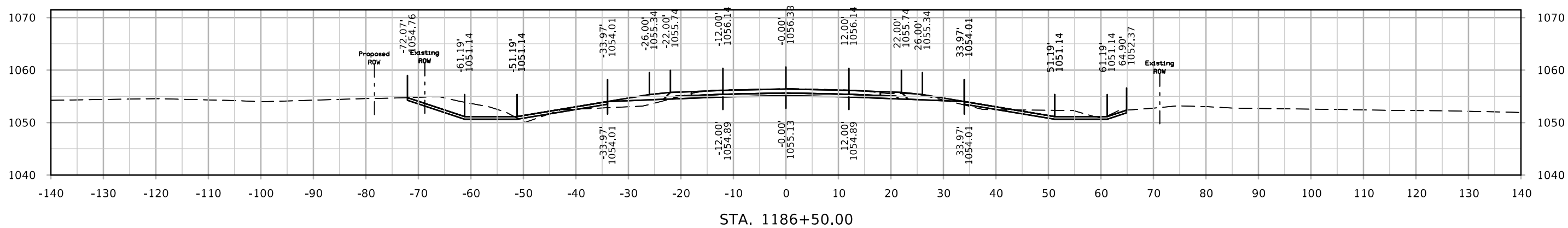
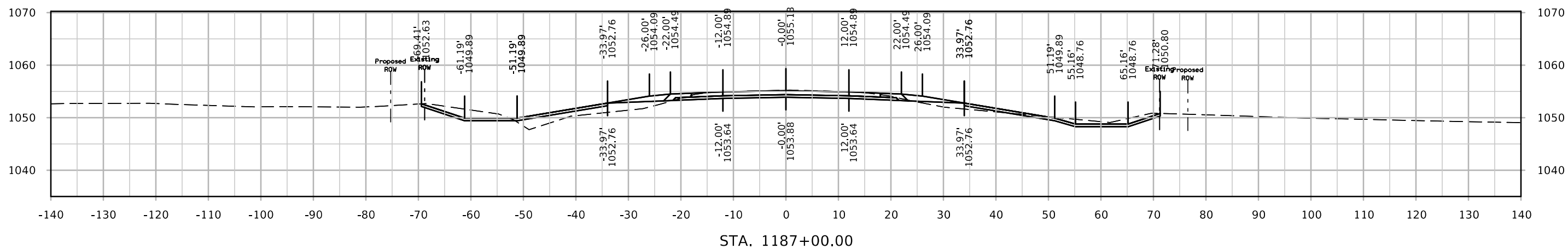
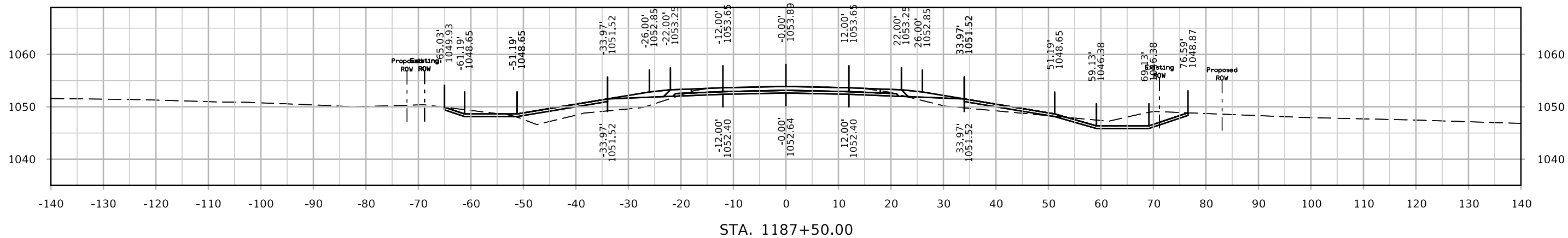


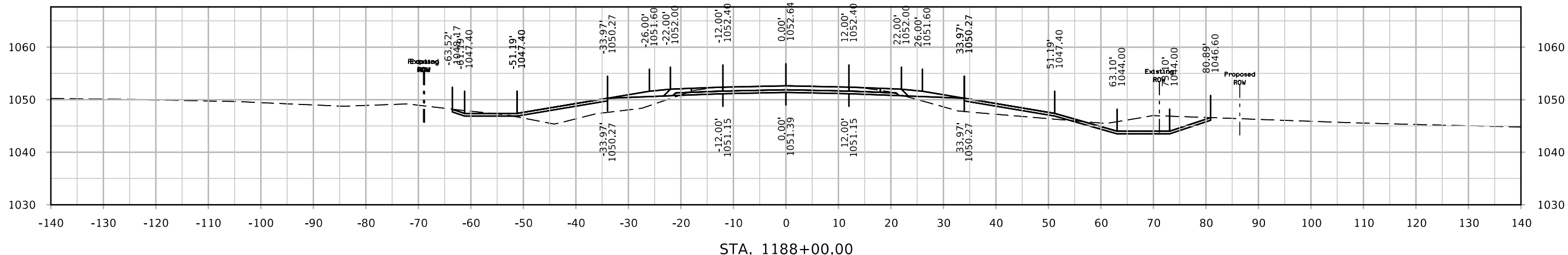
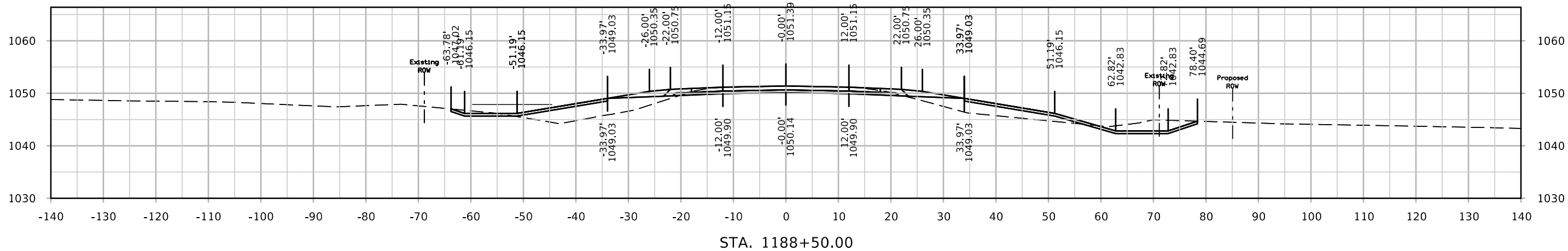
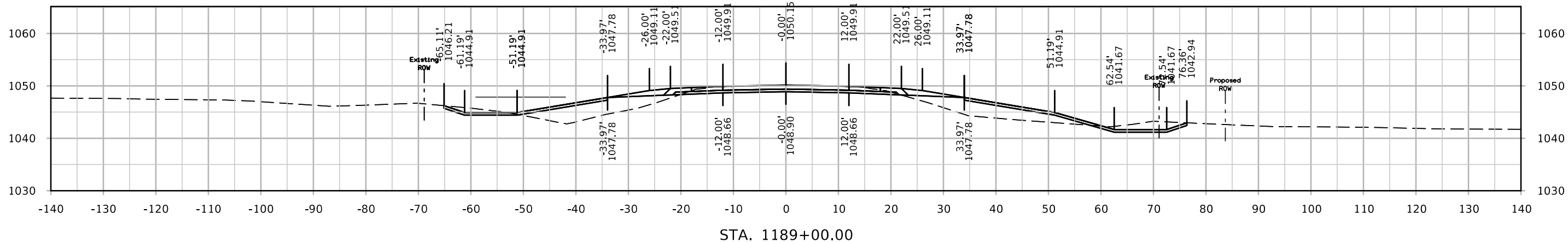
STA. 1180+50.00

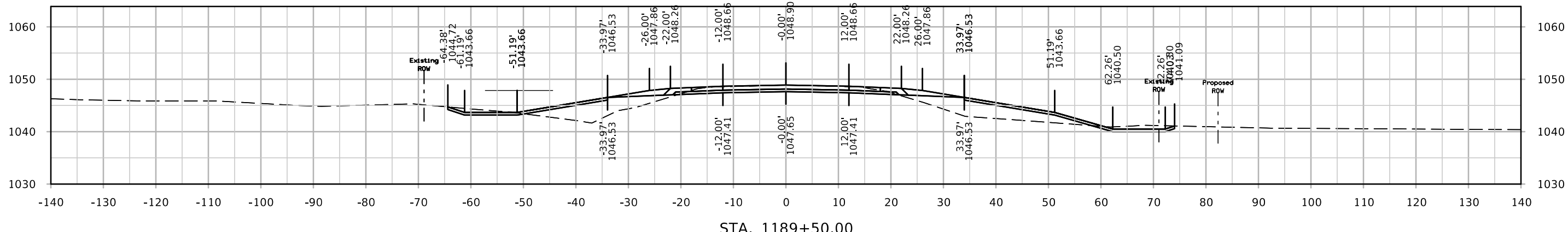
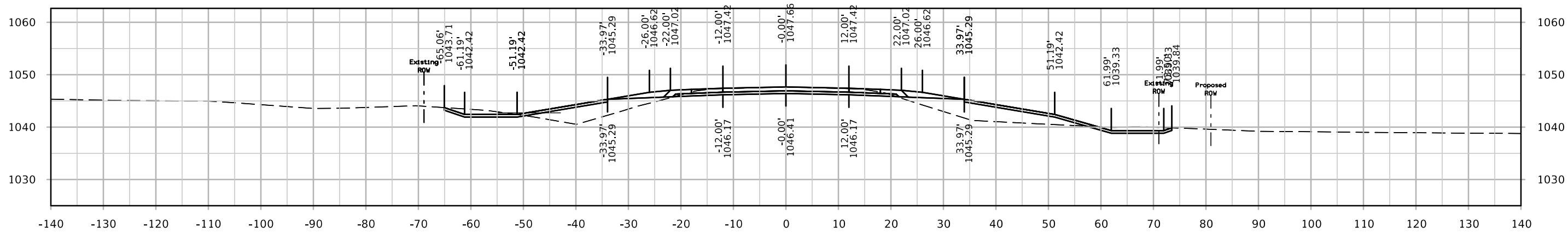
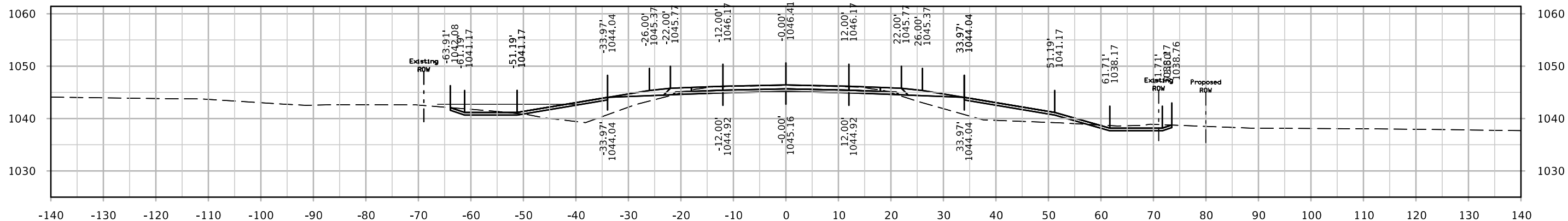


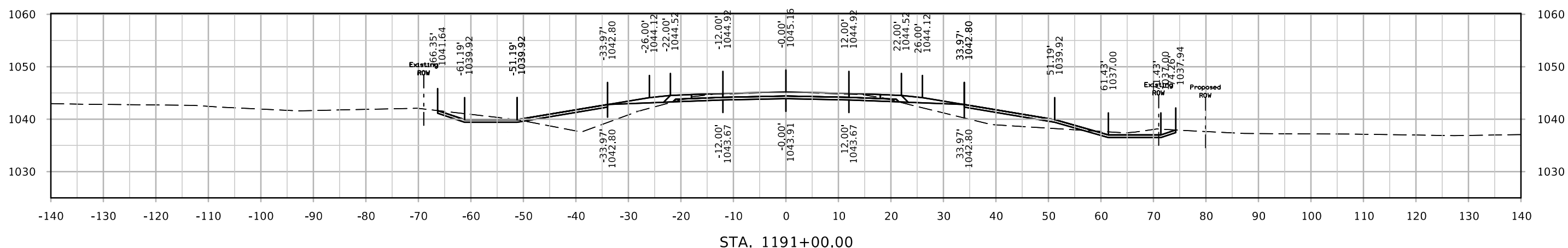
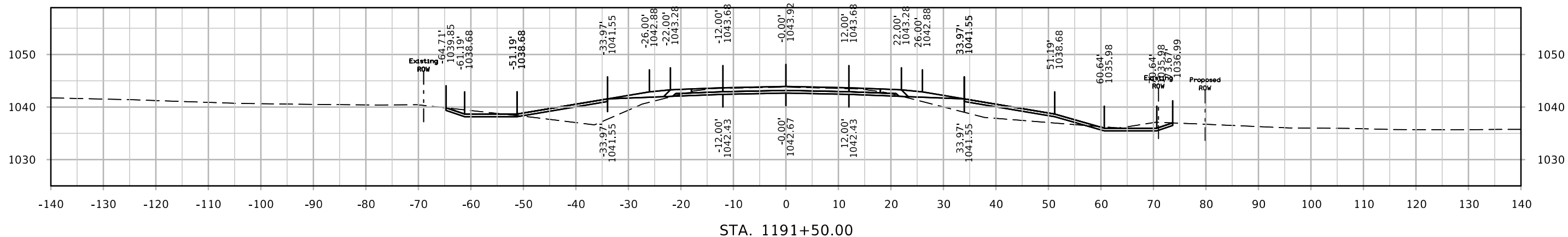
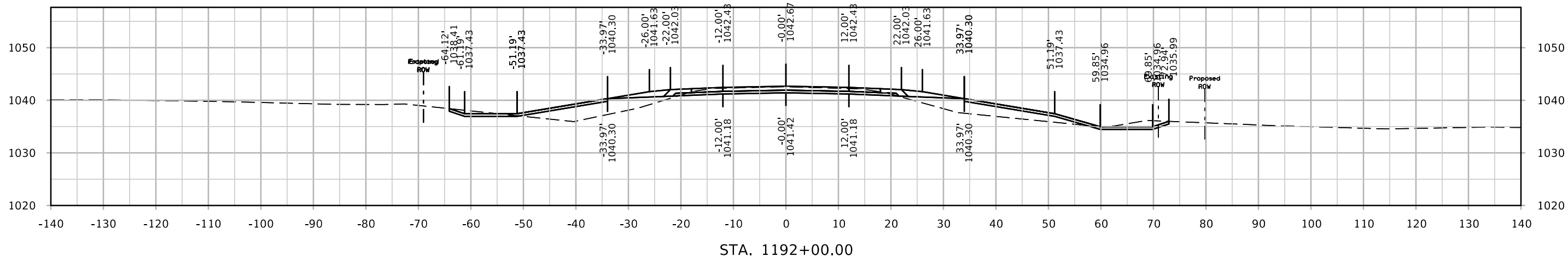


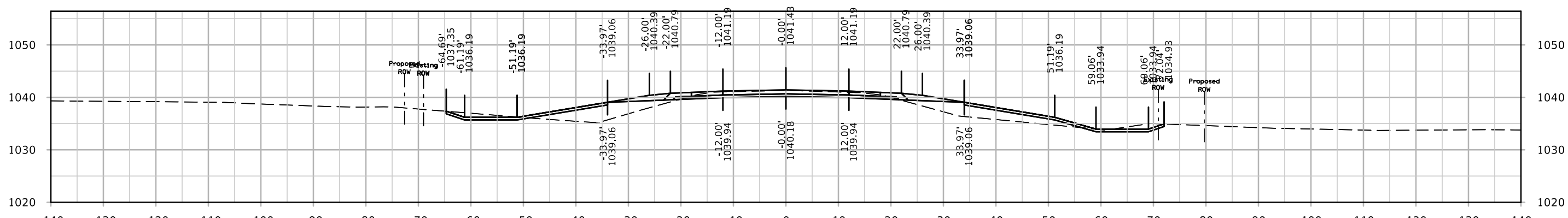
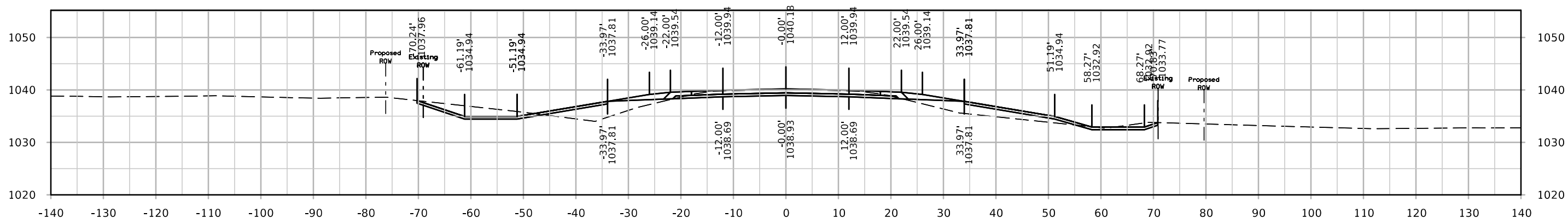
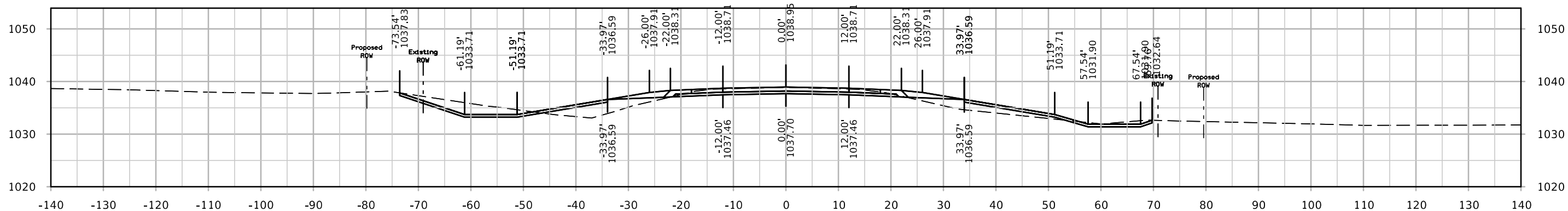


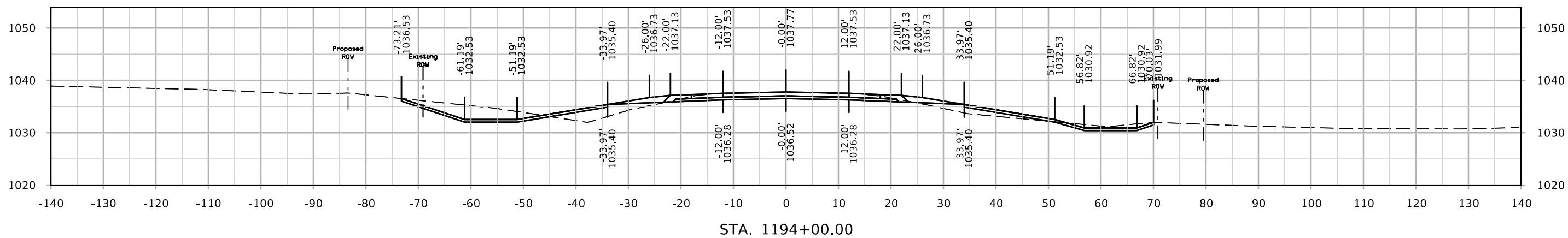
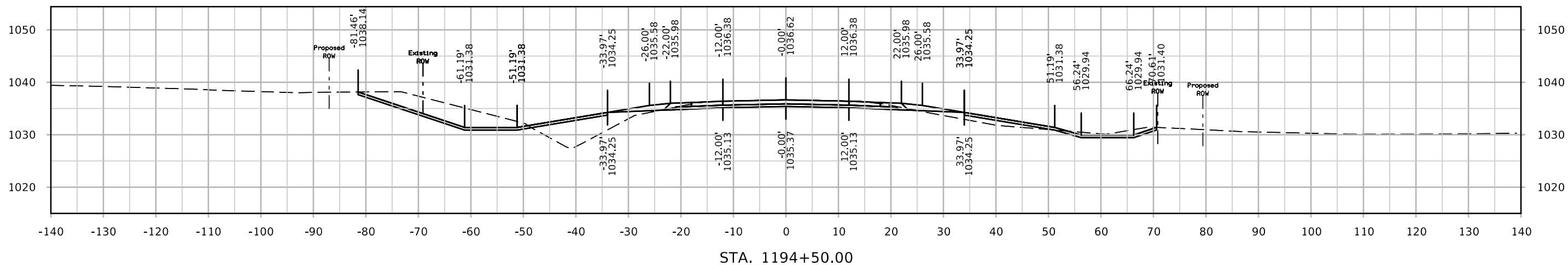
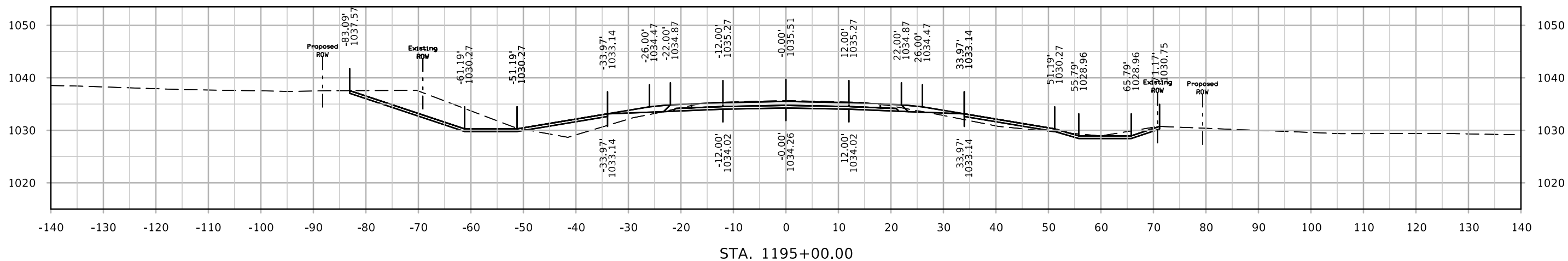


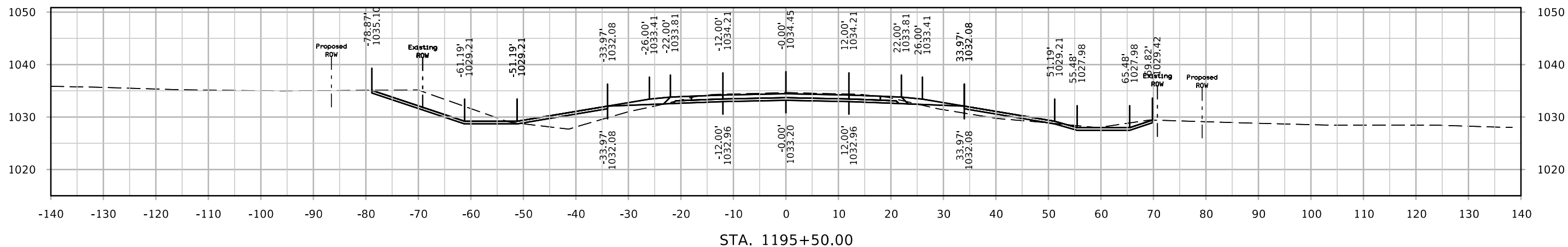
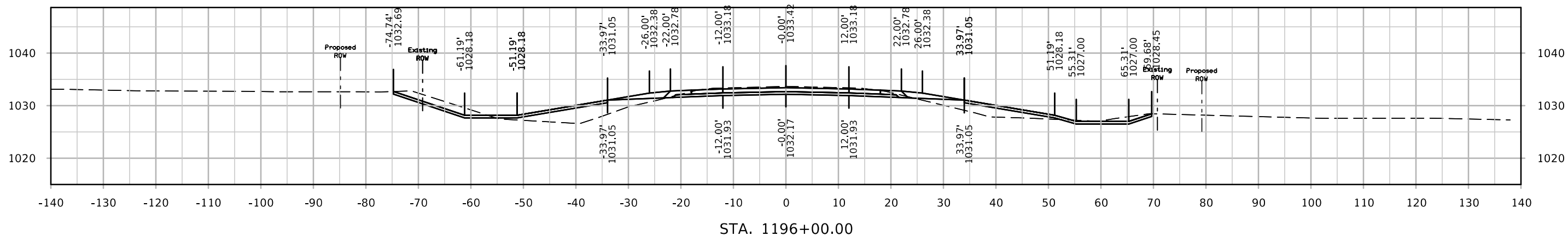
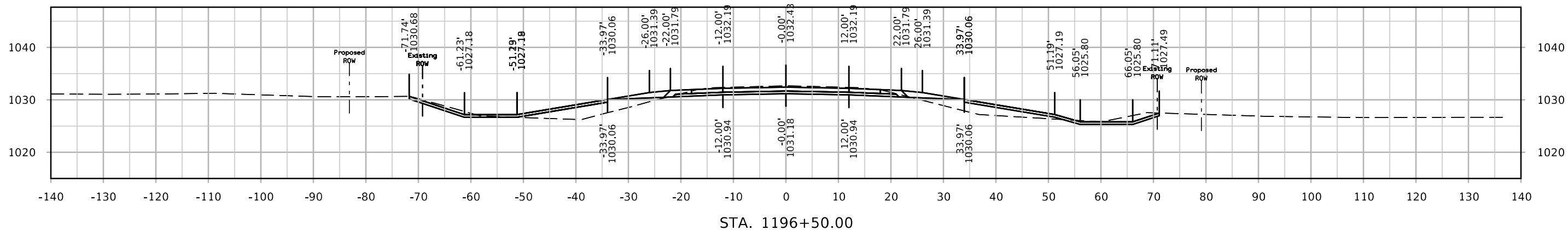


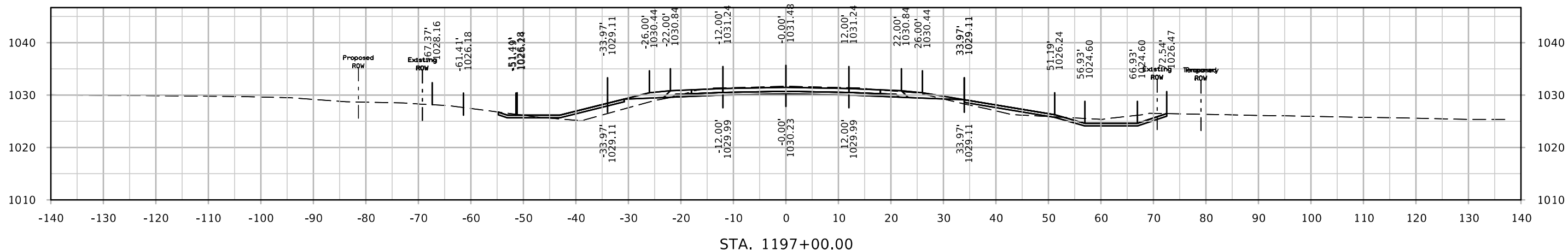
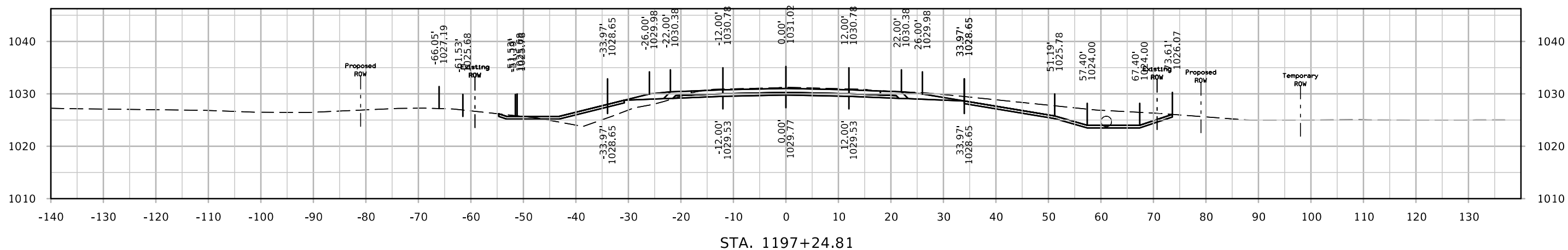
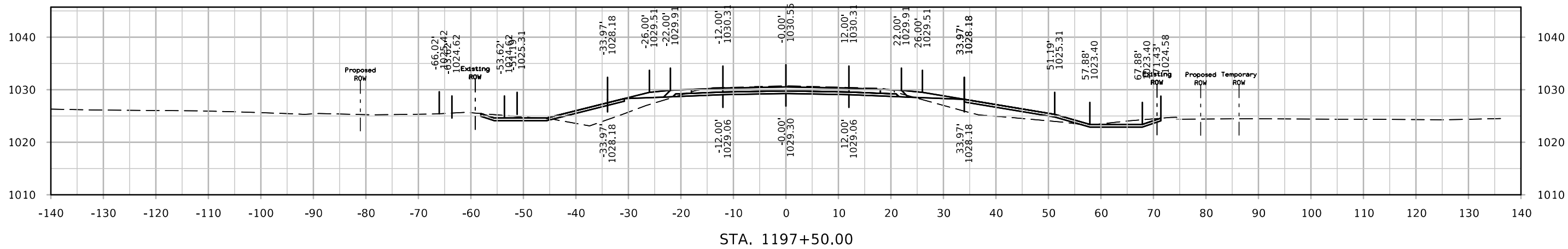


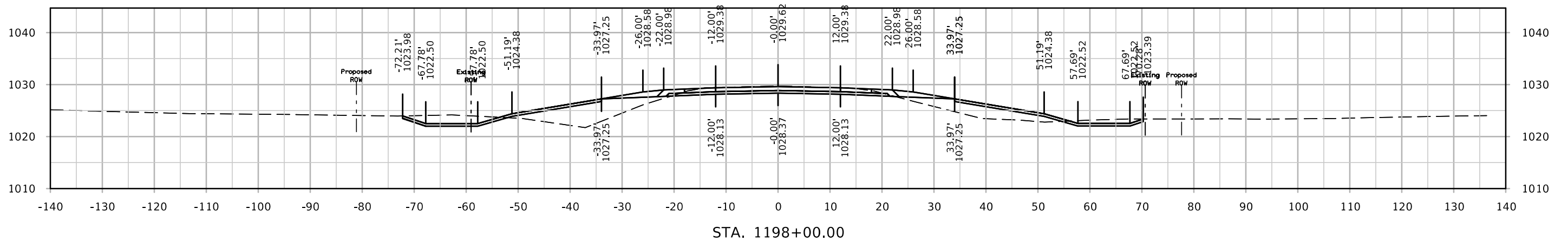
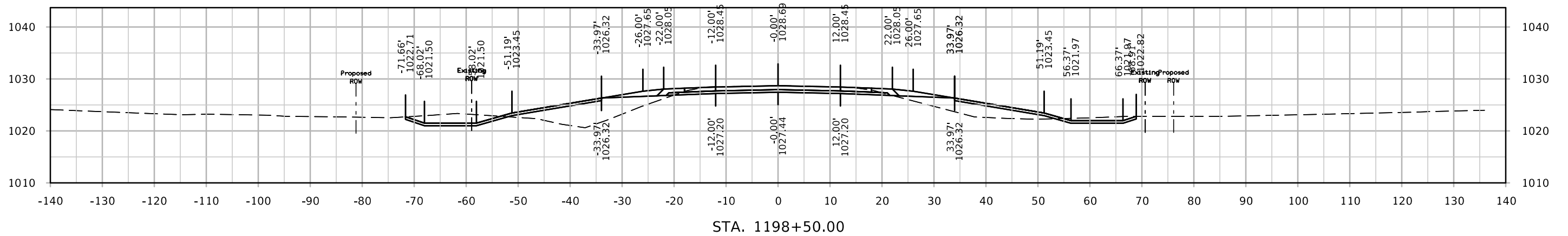
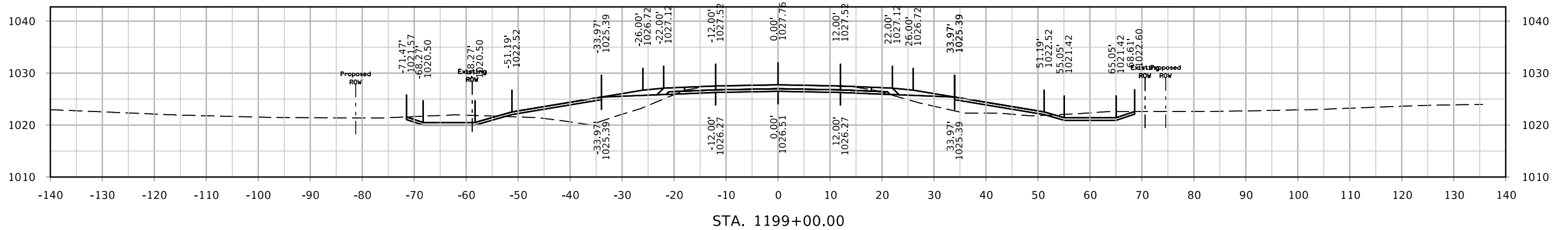


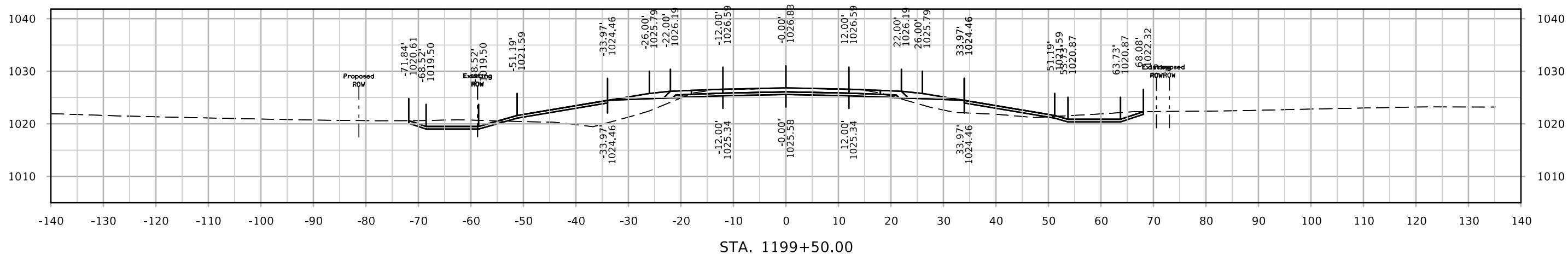
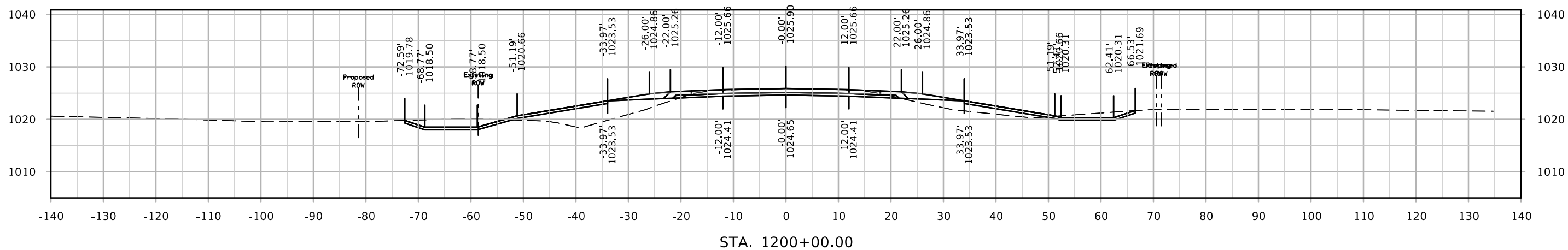
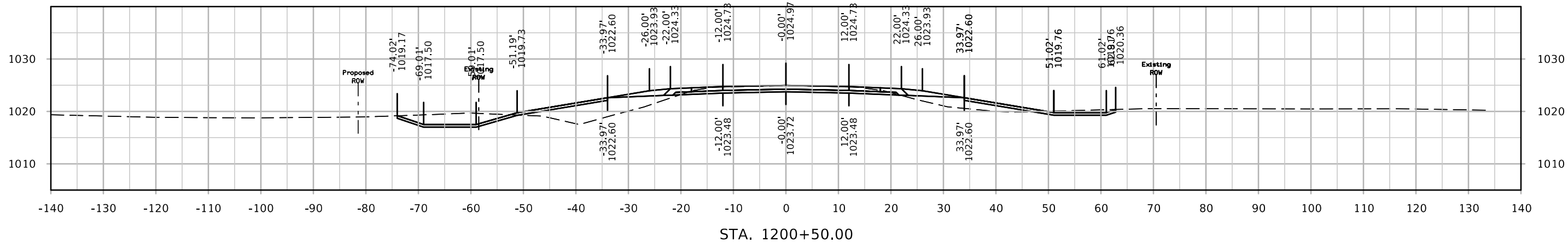


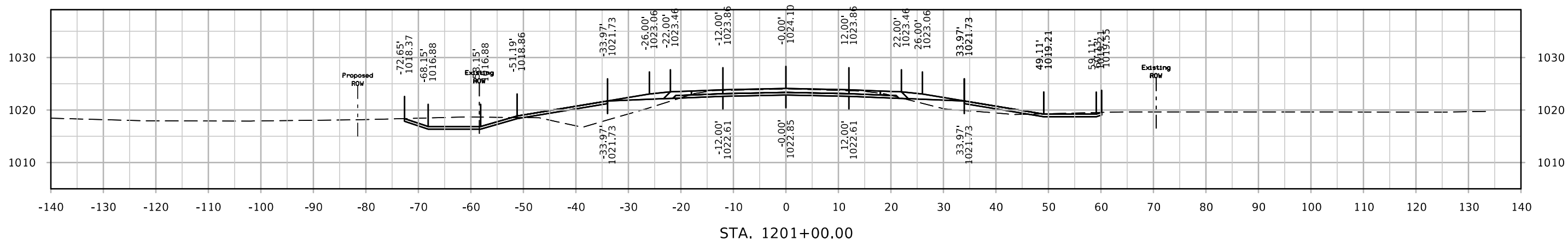
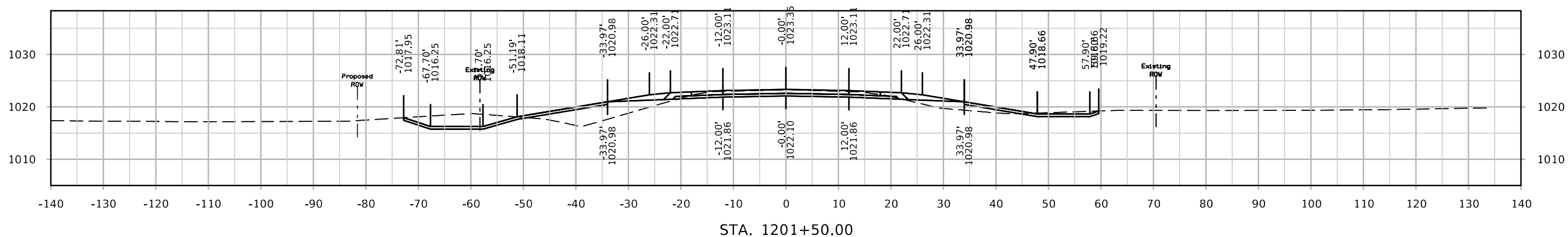
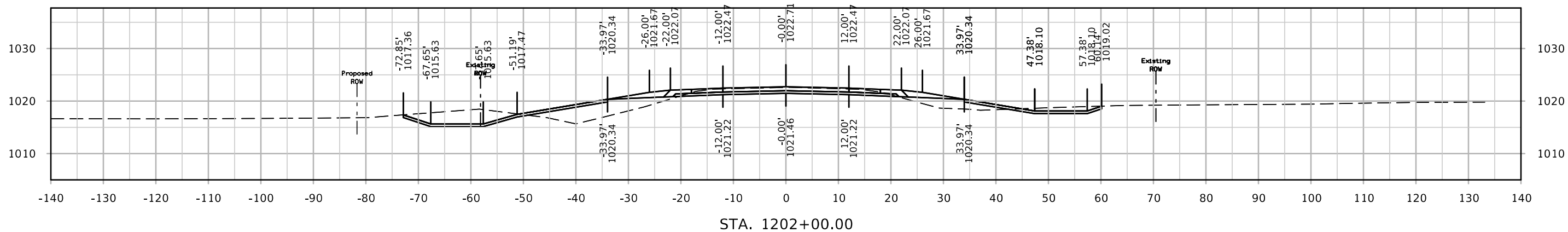


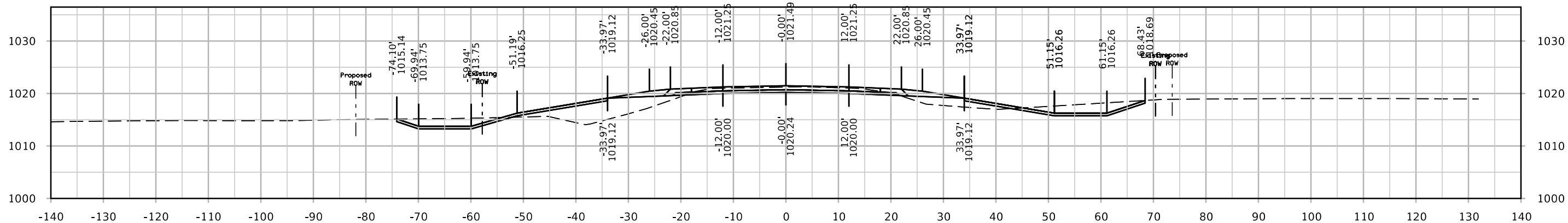




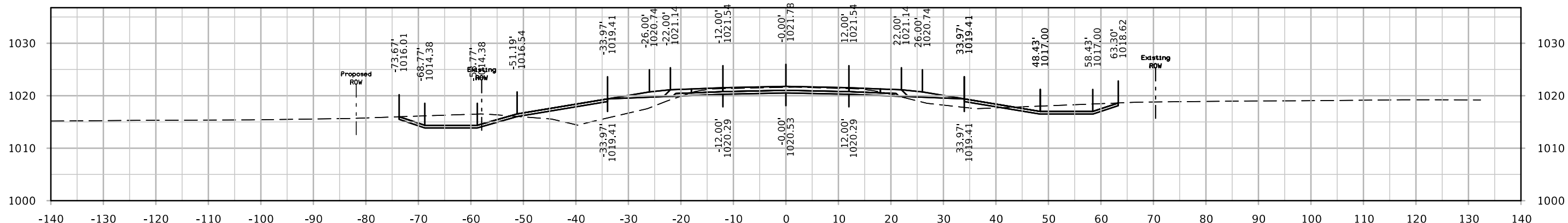




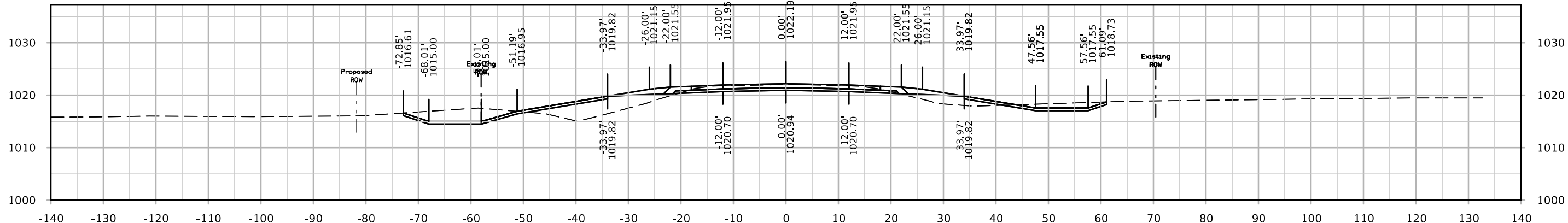




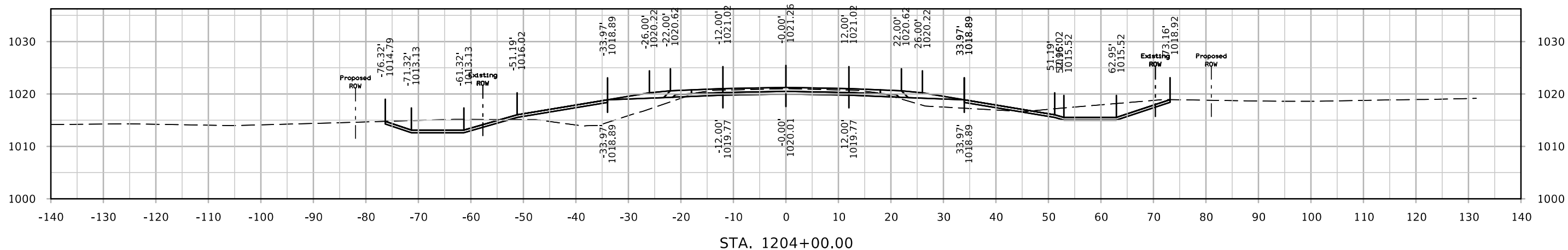
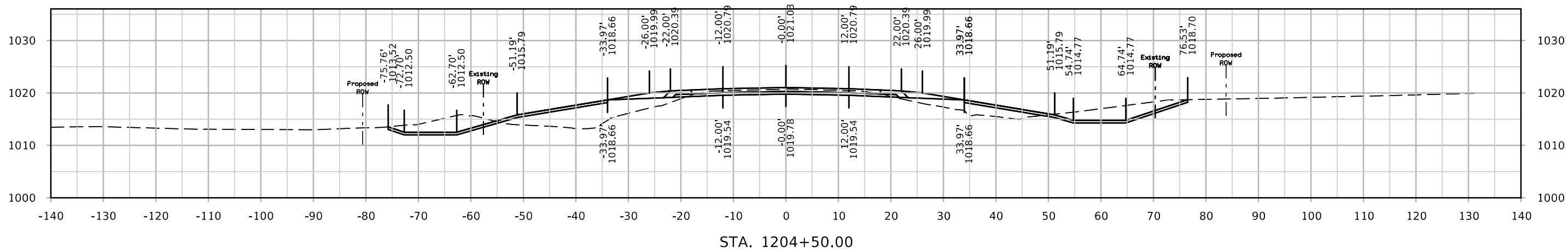
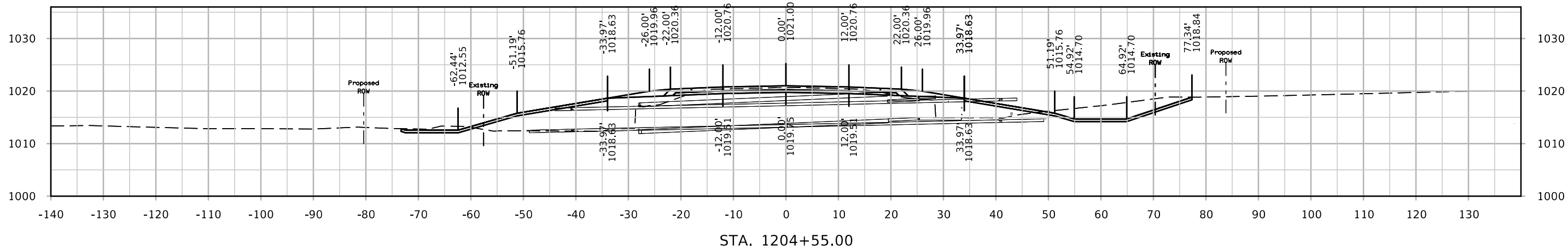
STA. 1203+50.00

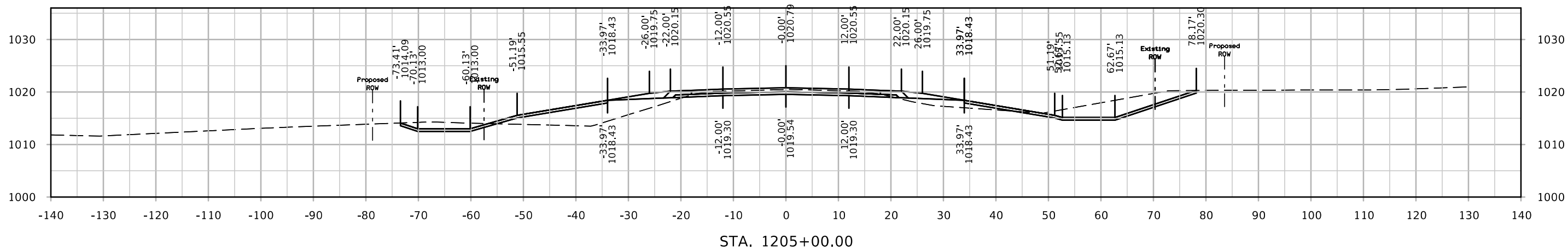
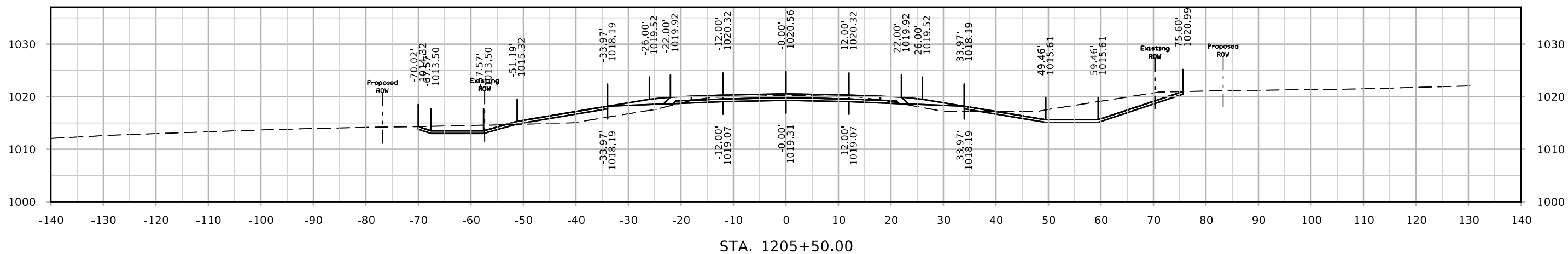
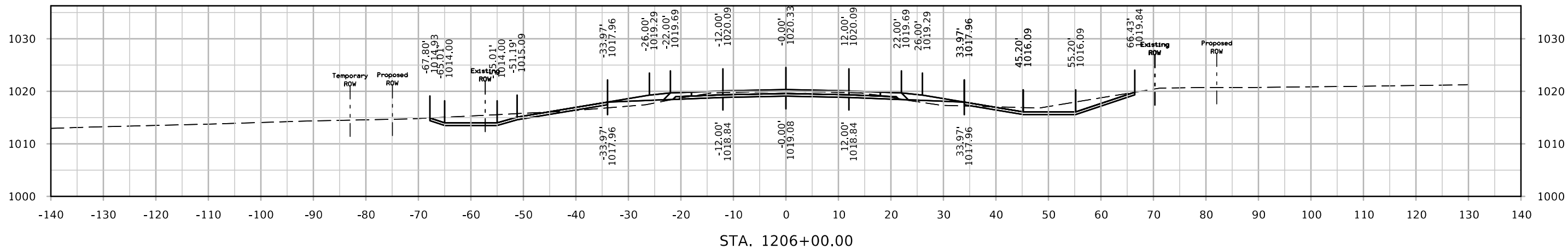


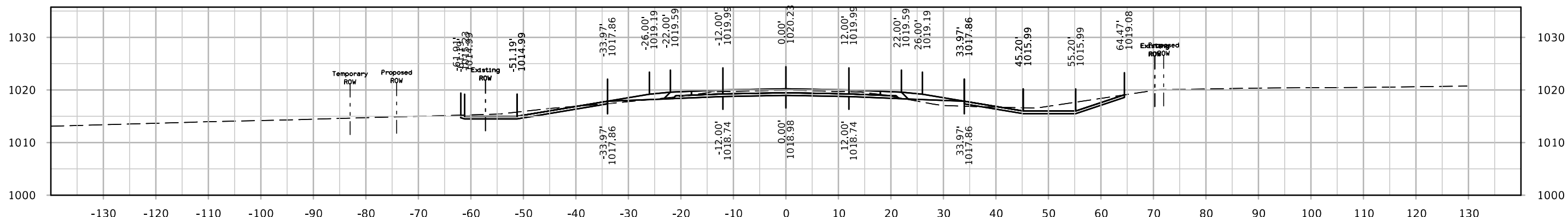
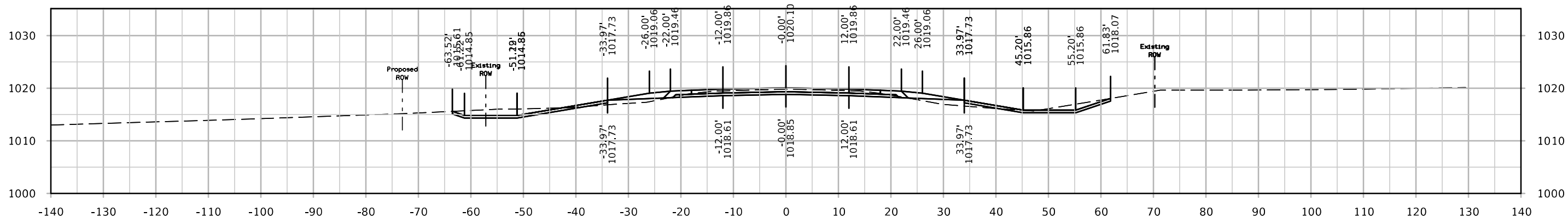
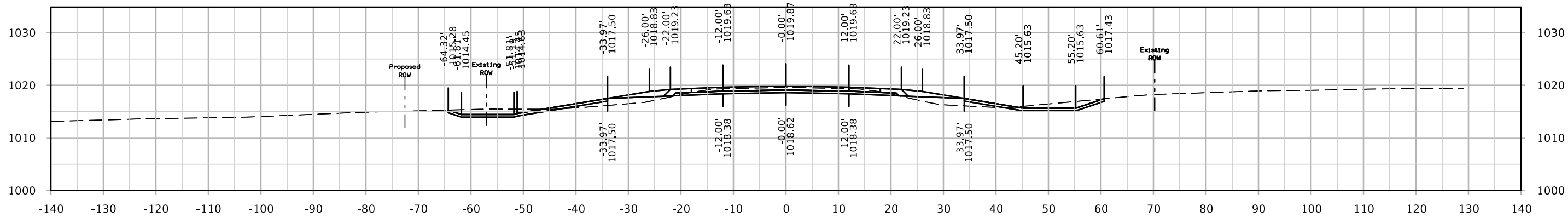
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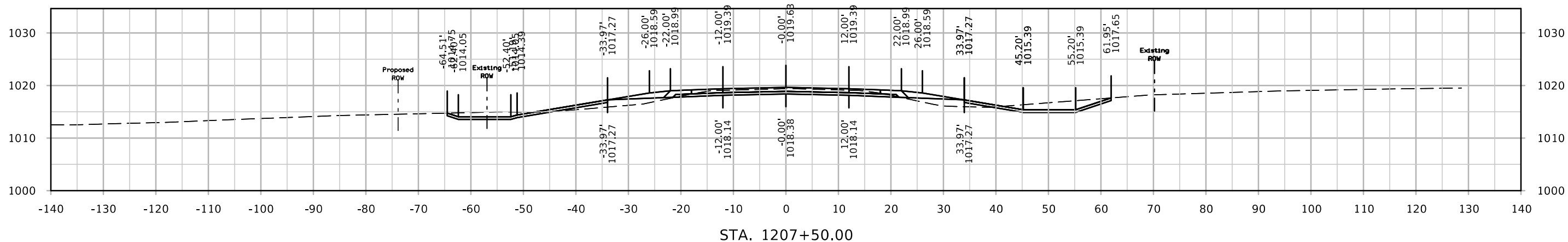
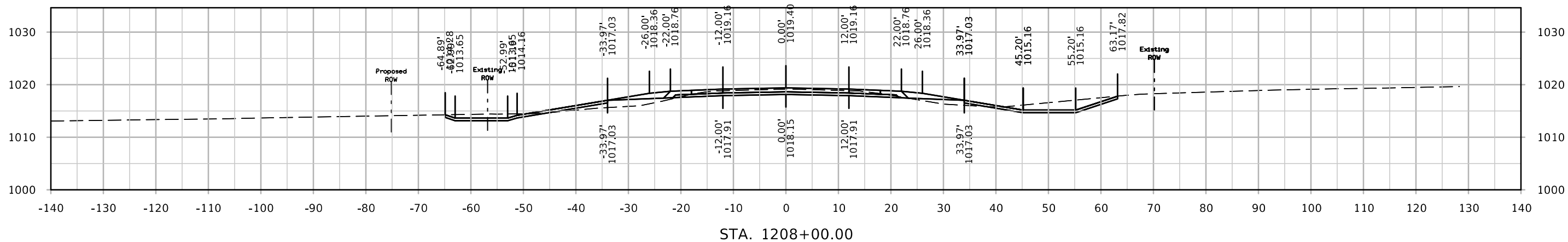
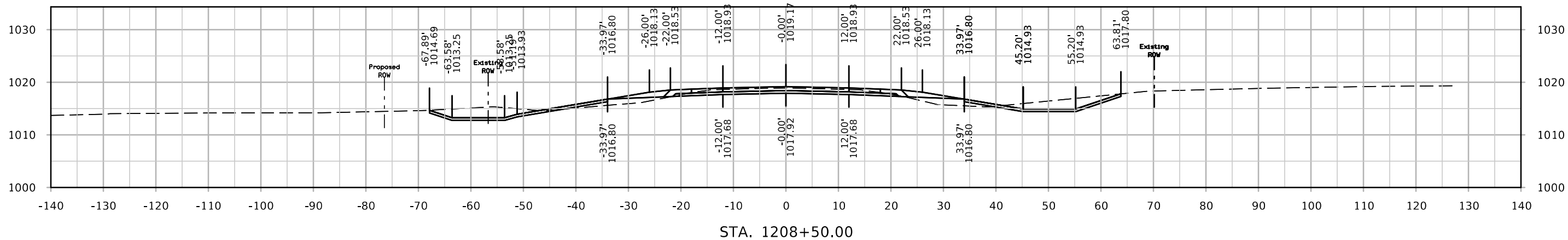


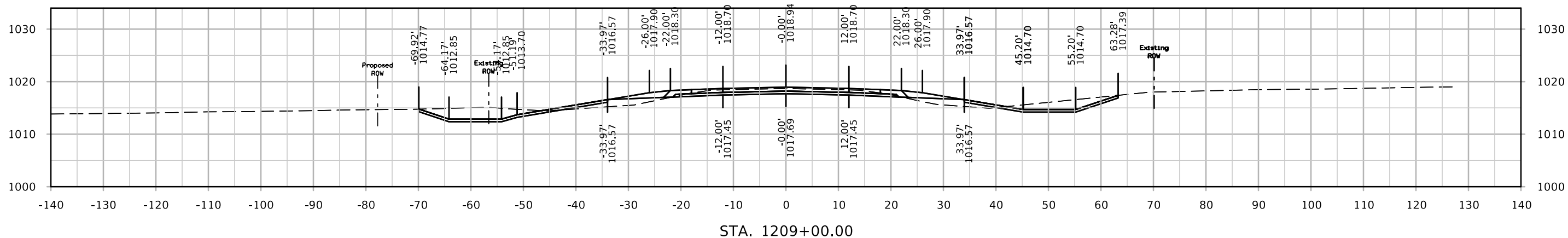
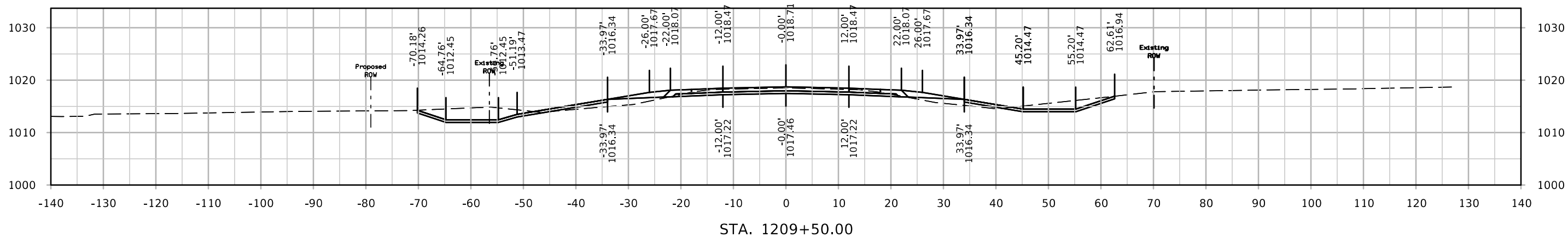
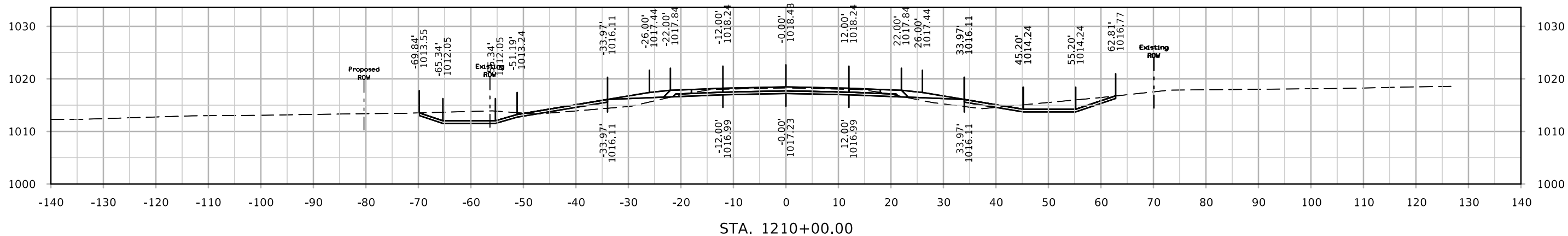
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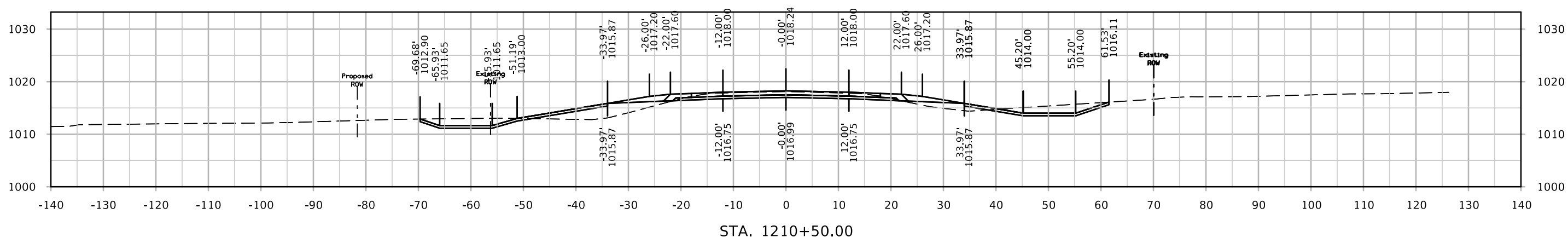
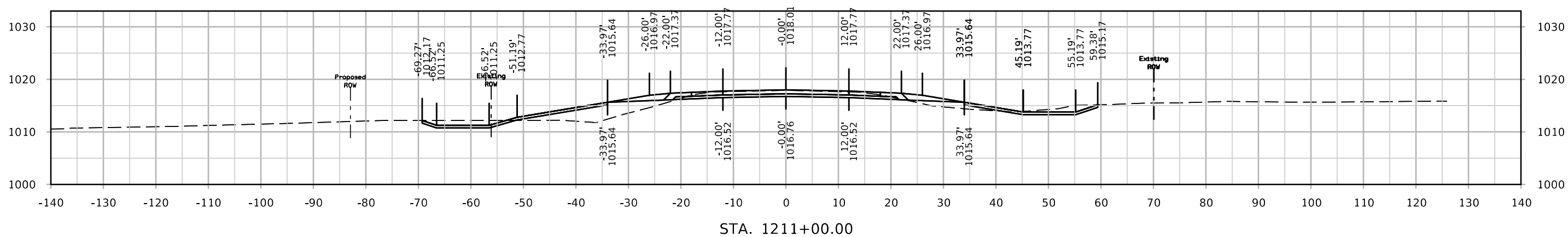
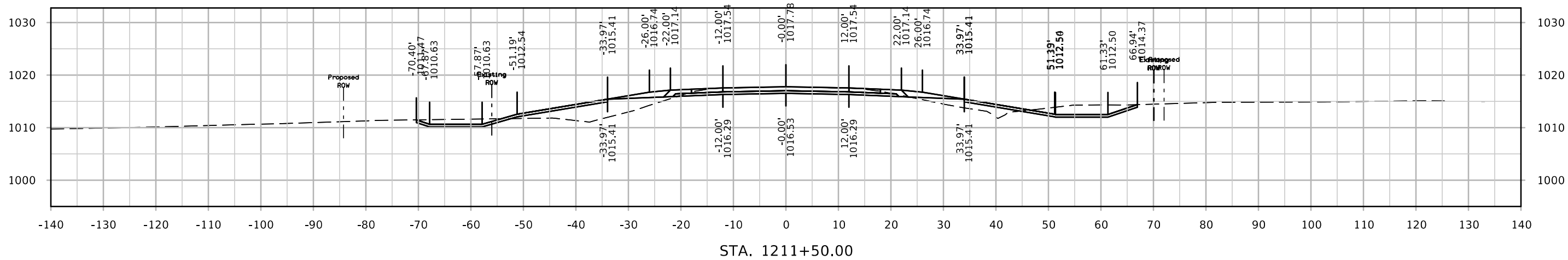


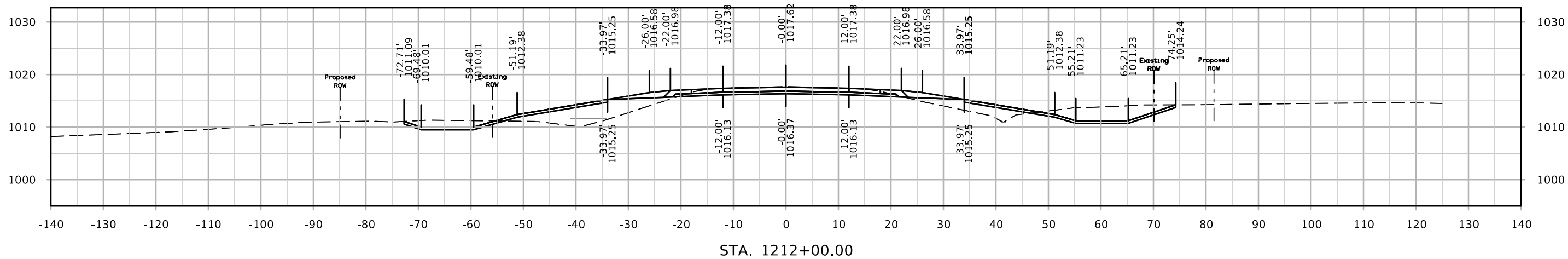
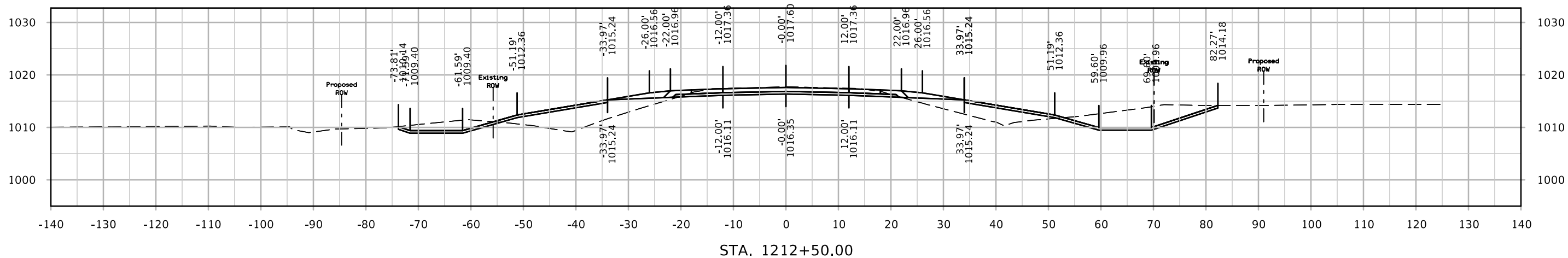
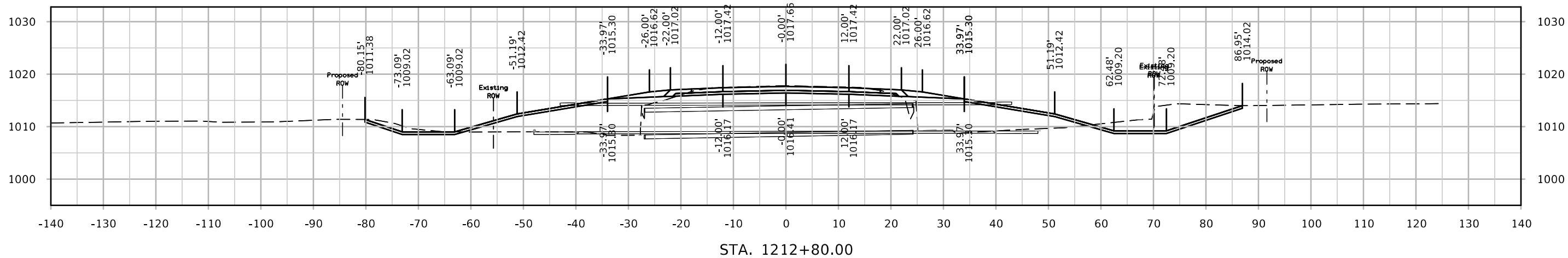


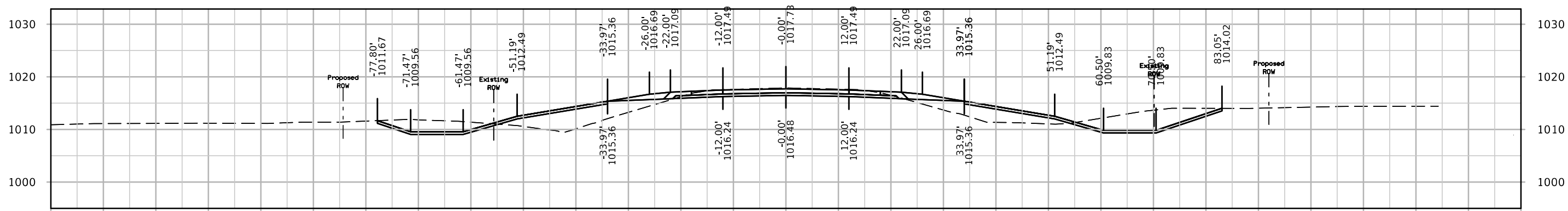
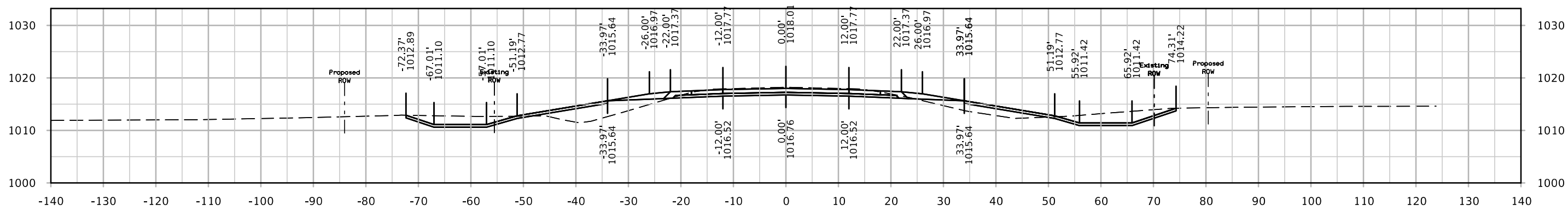
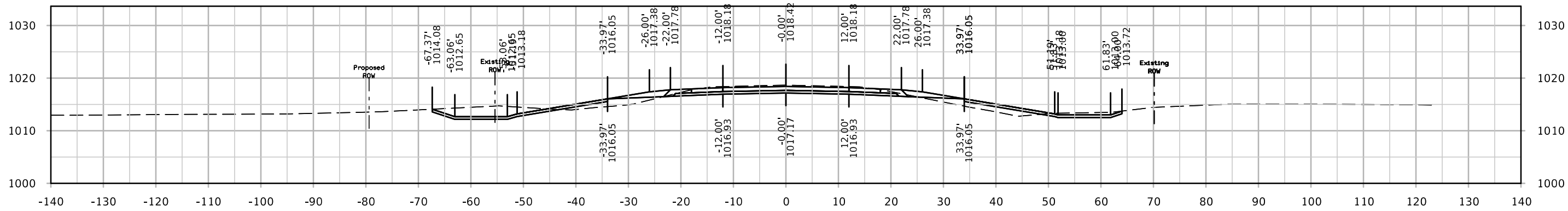


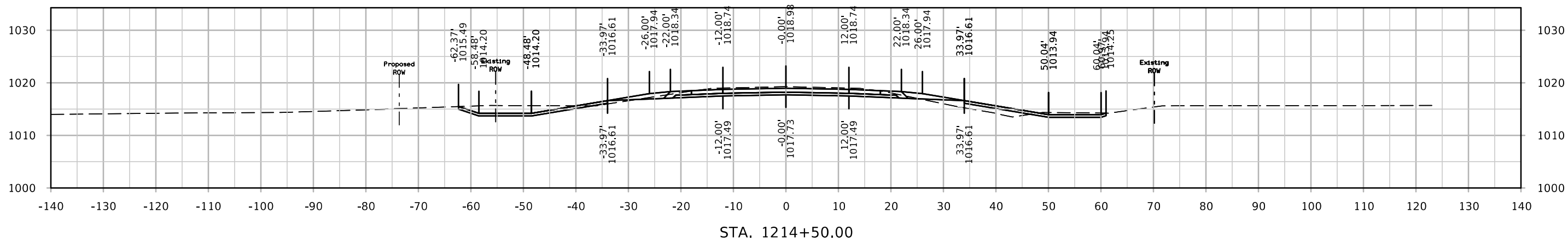
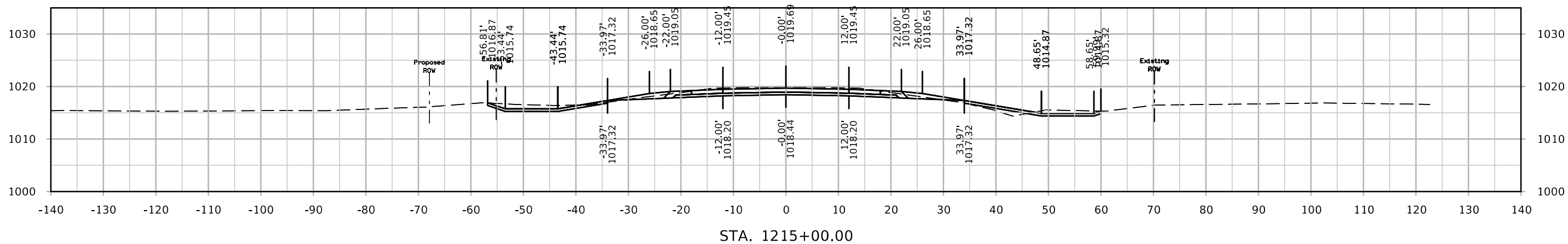
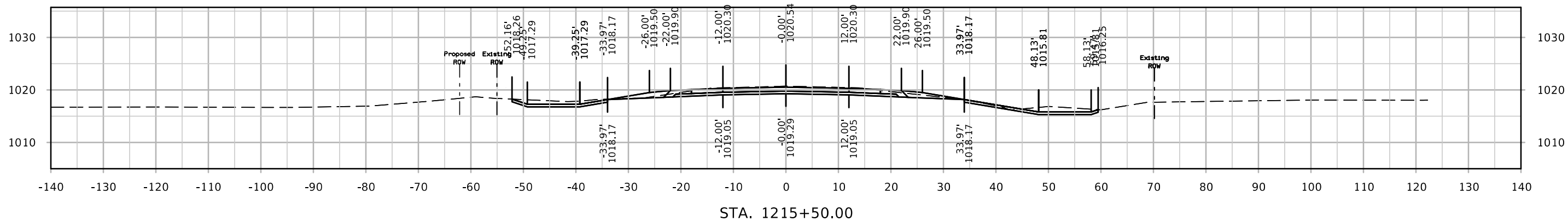


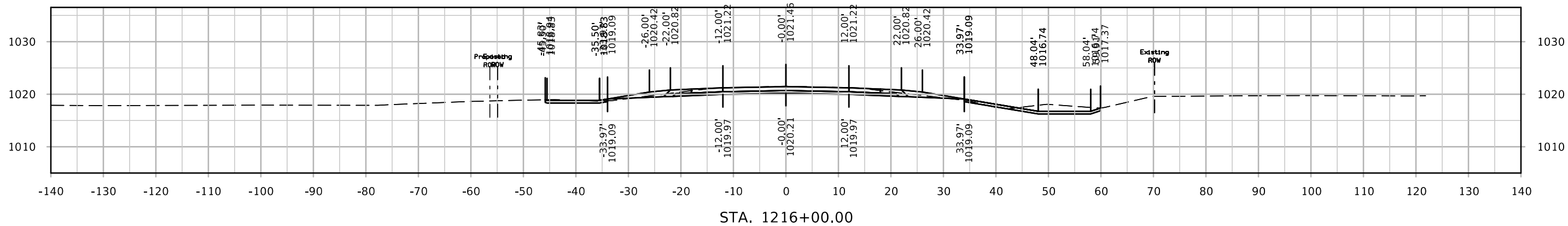
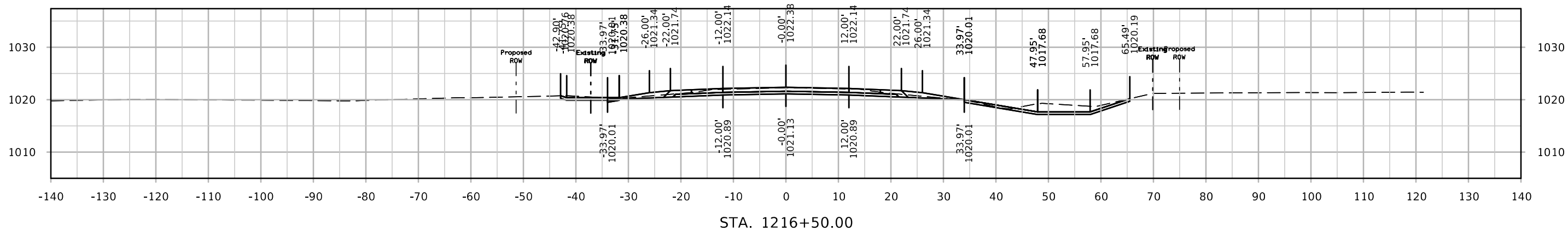
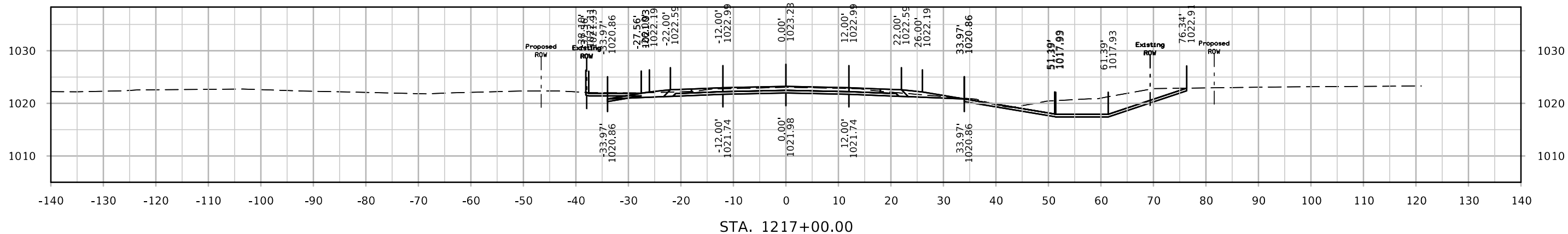


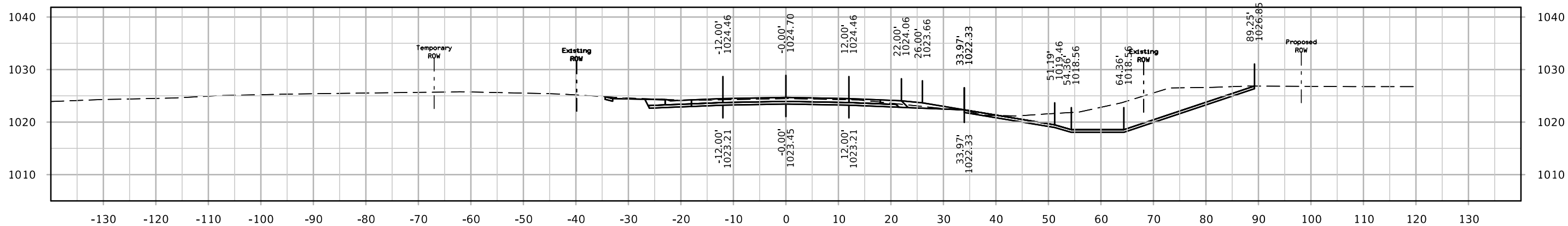




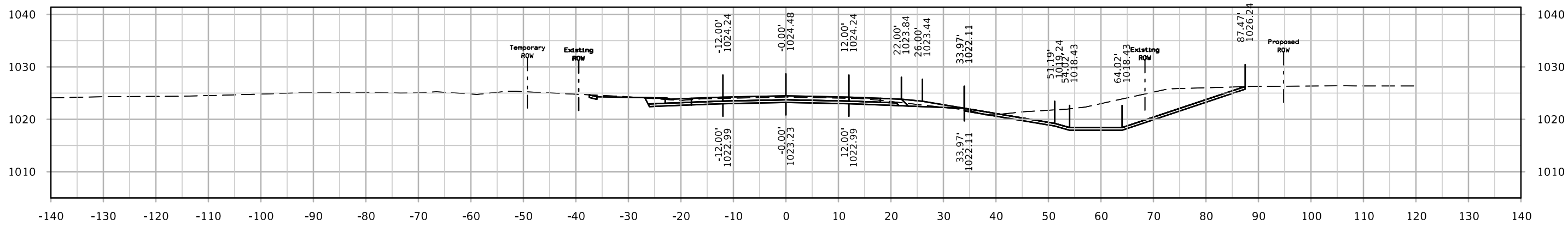




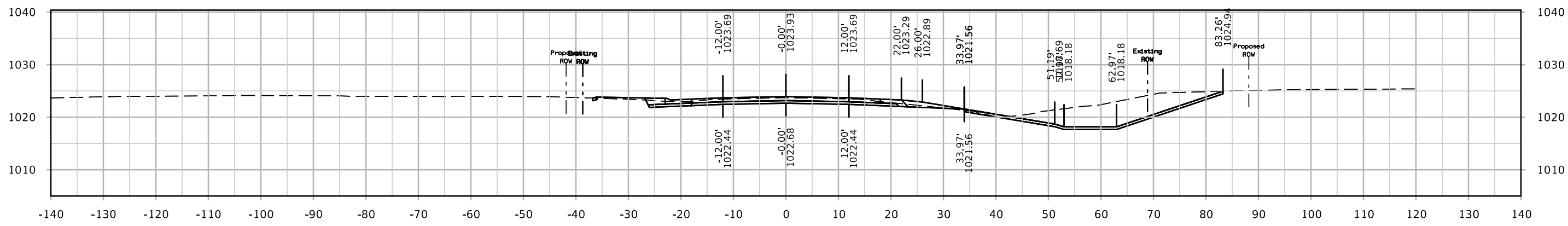




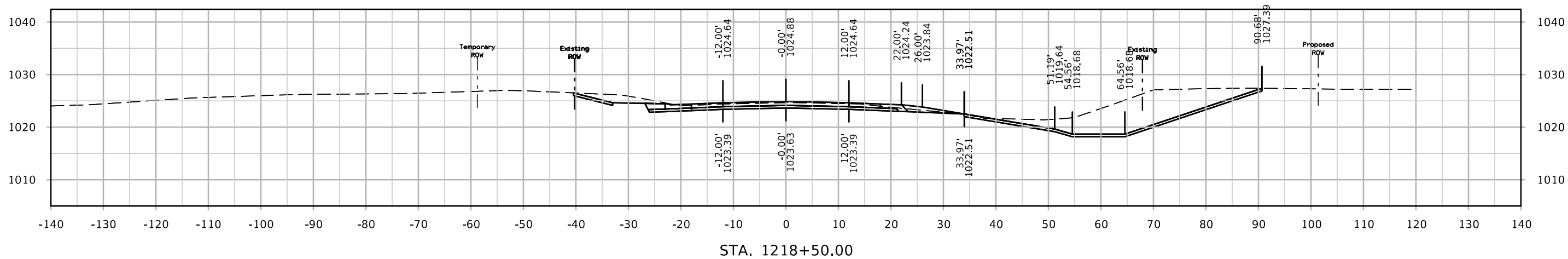
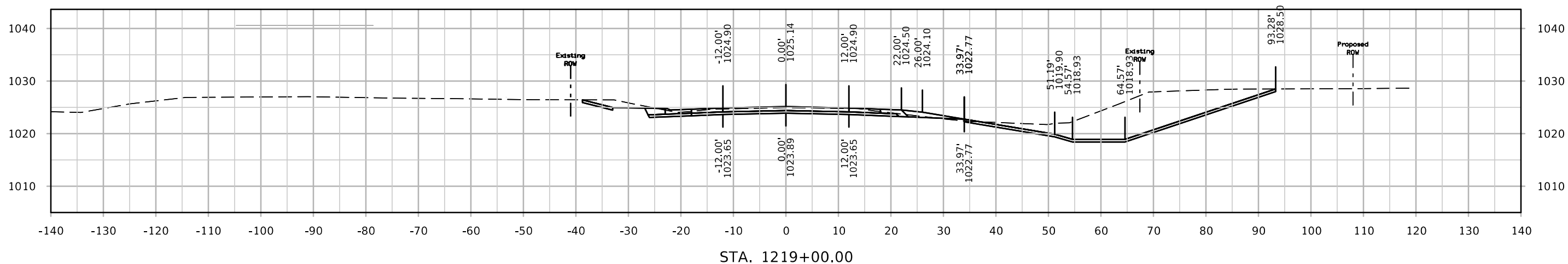
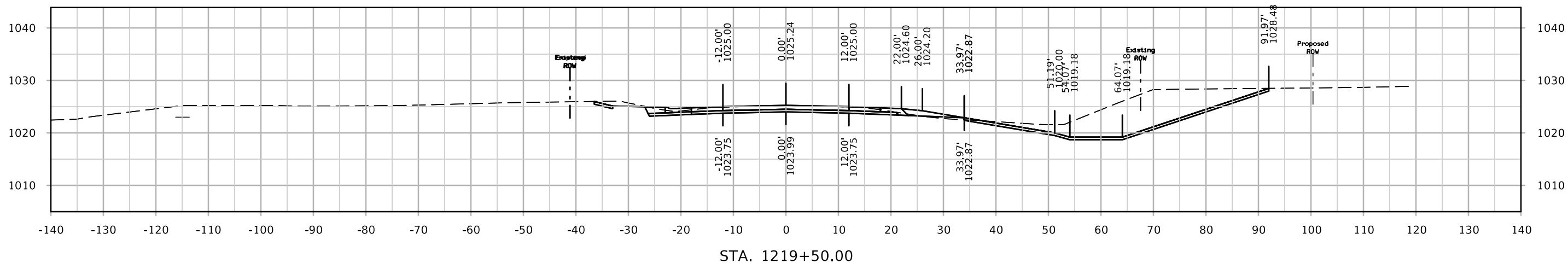
STA. 1218+25.63

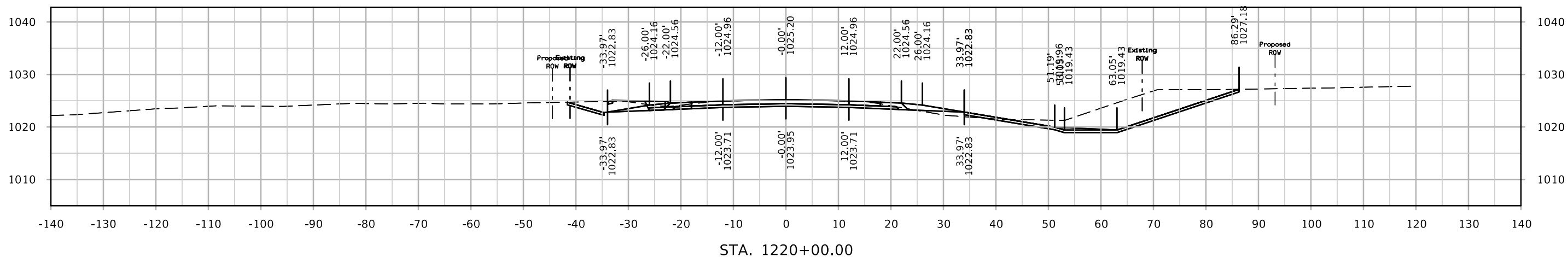
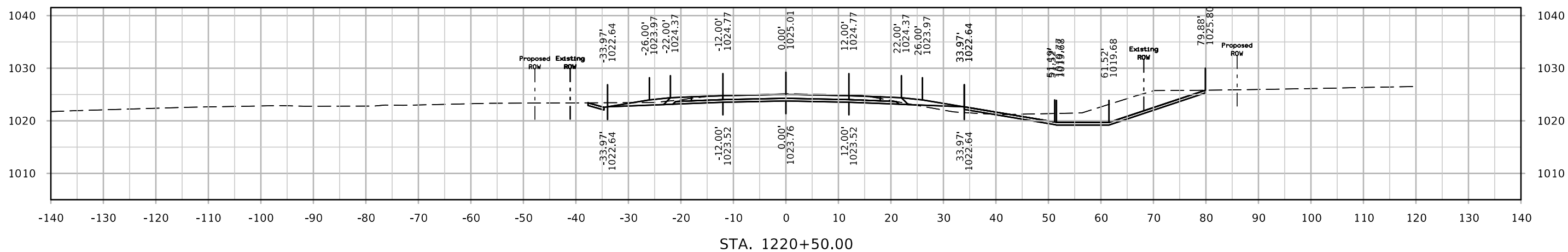
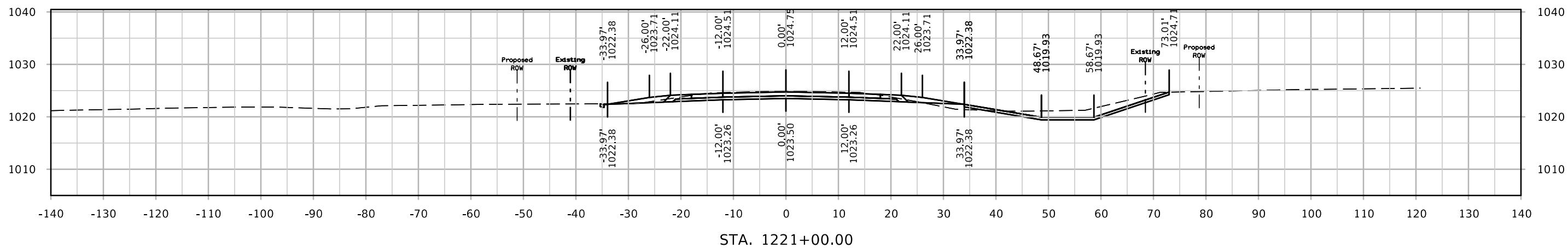


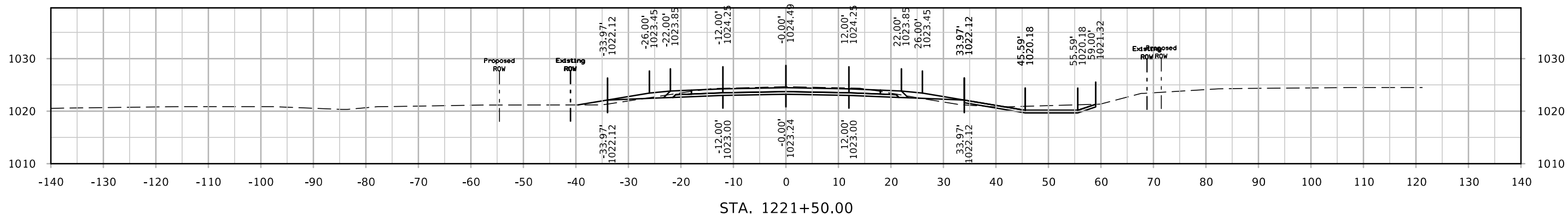
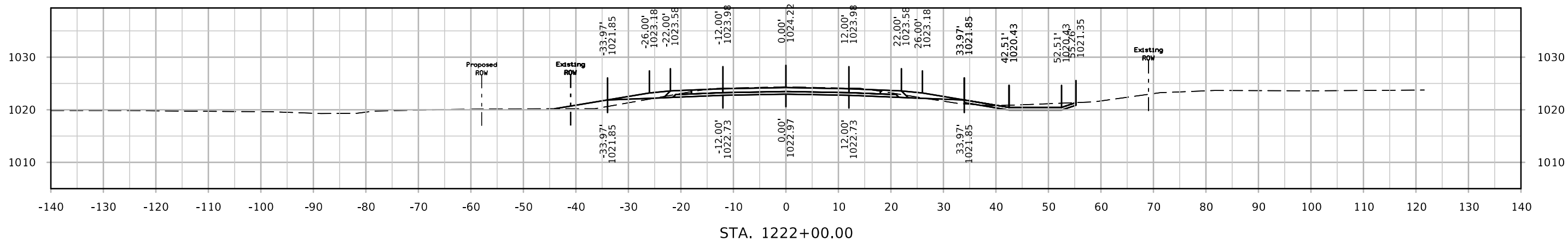
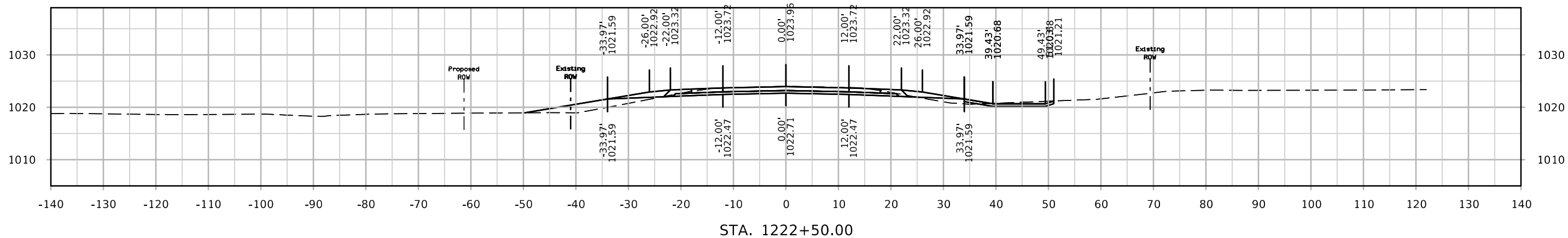
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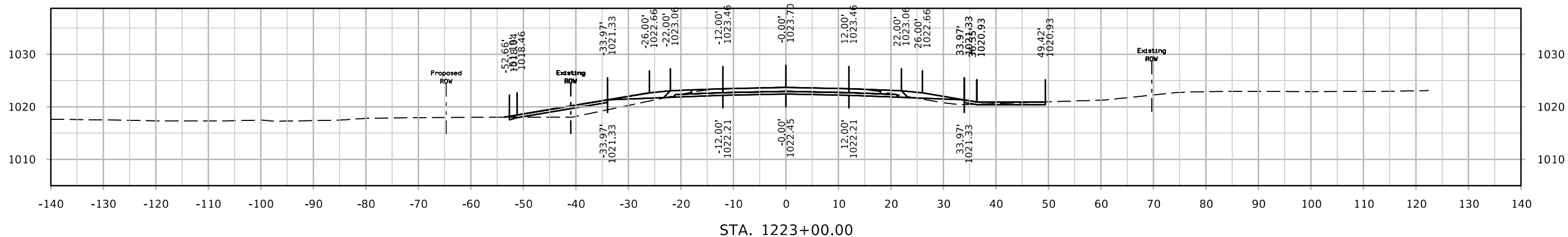
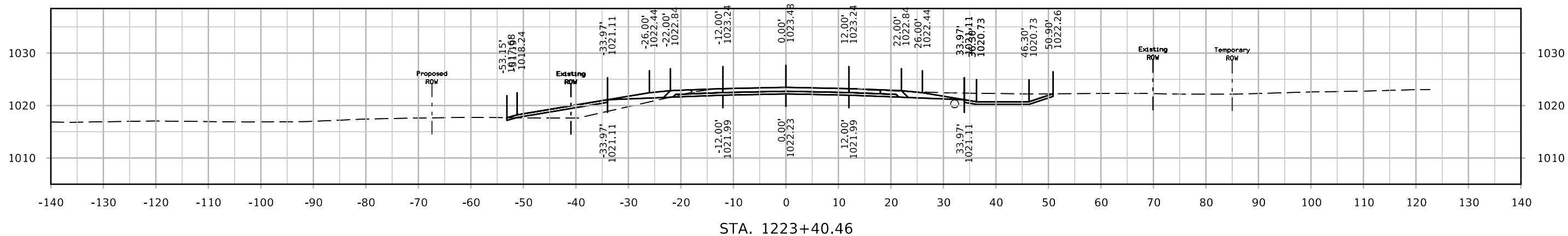
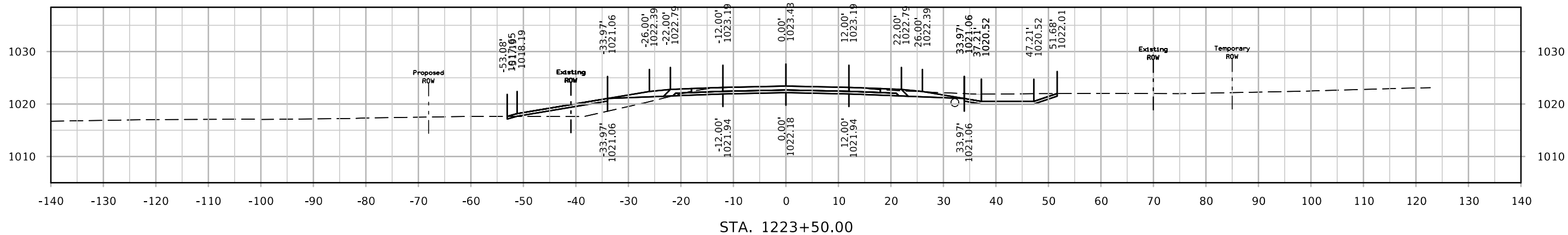


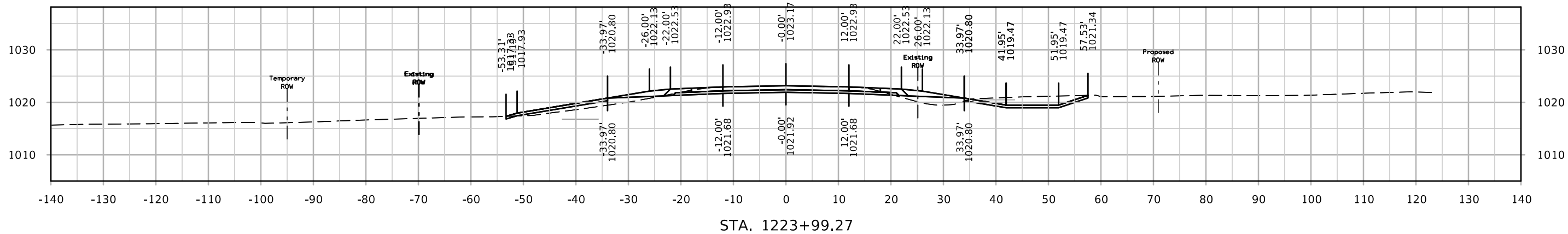
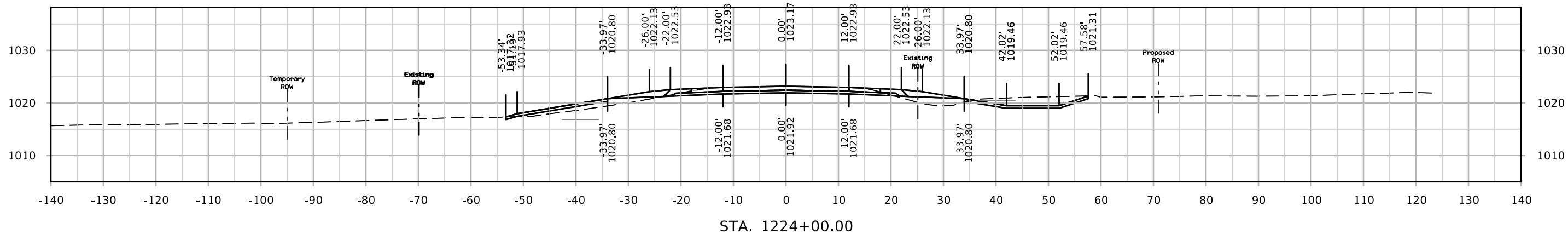
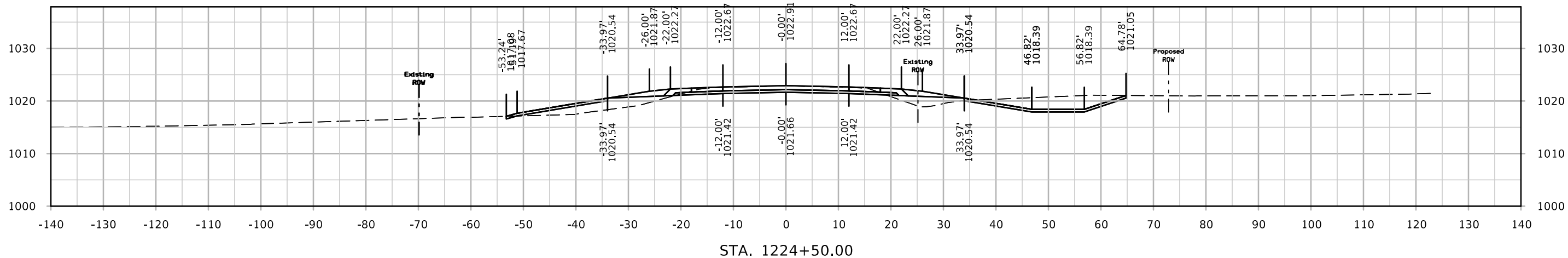
STA. 1217+50.00

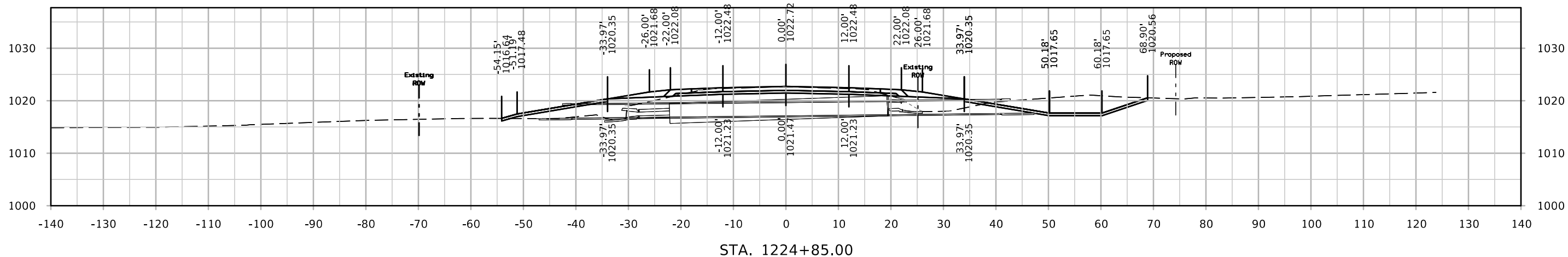
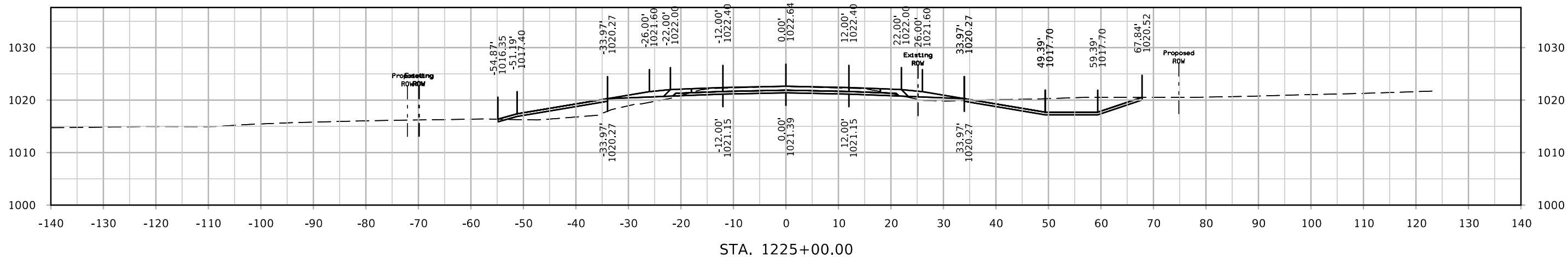
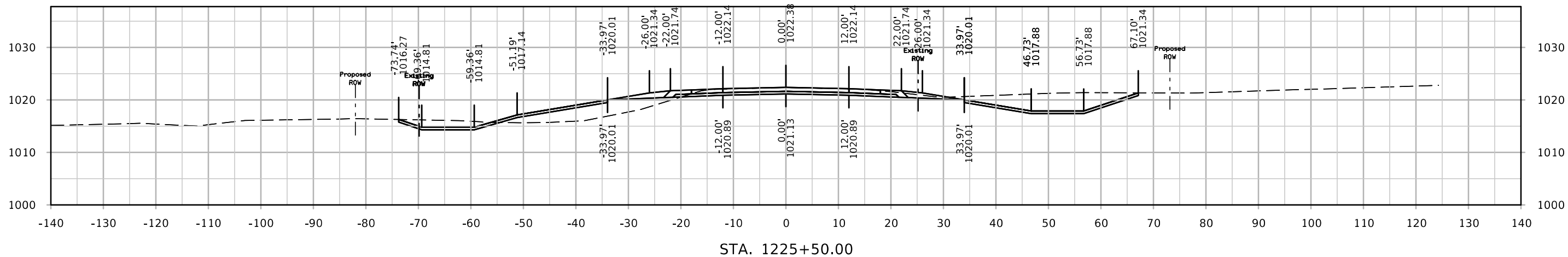


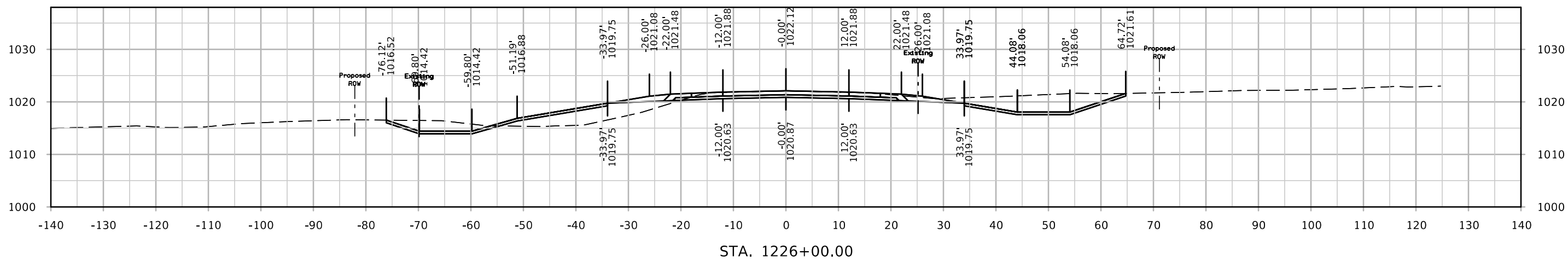
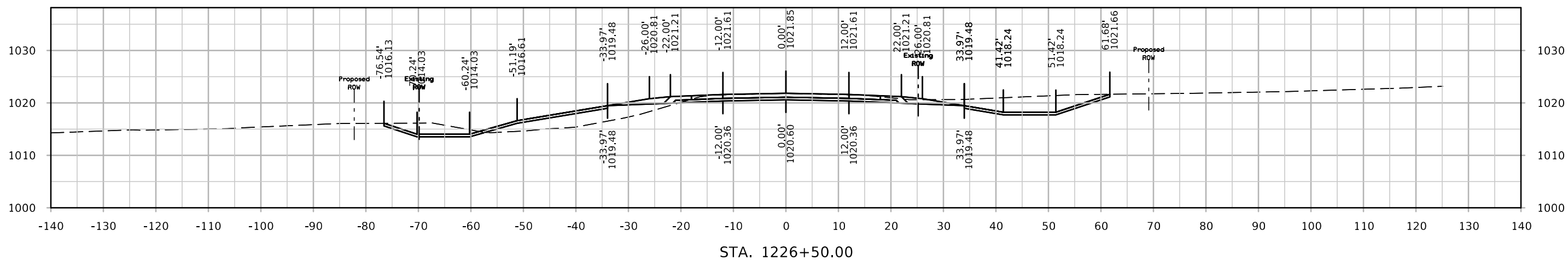
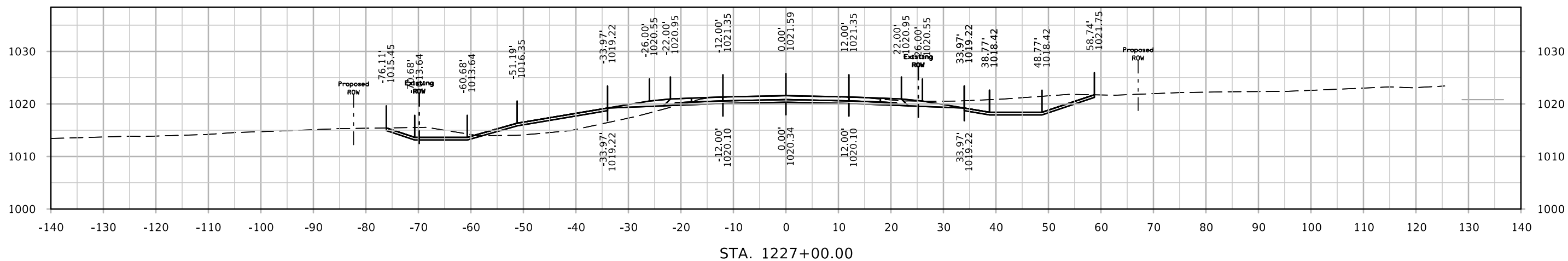


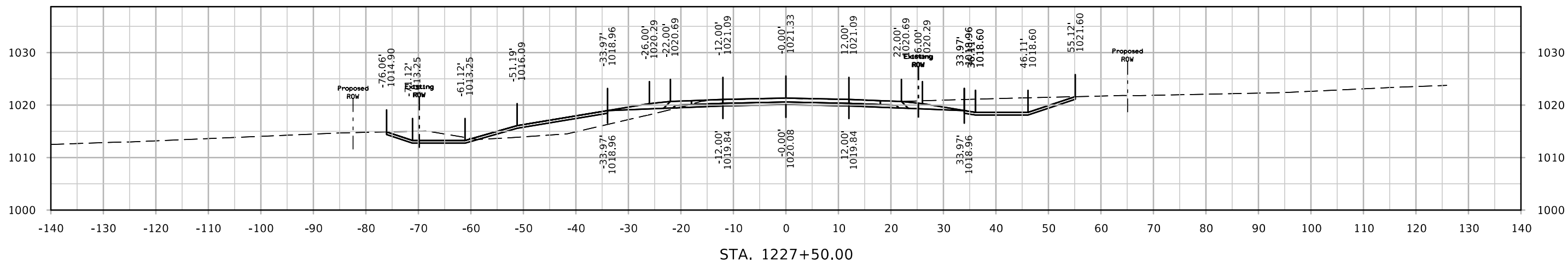
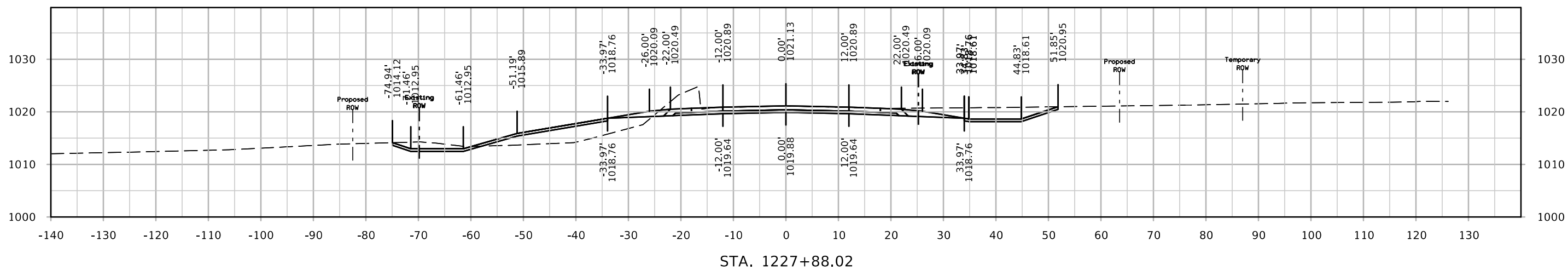
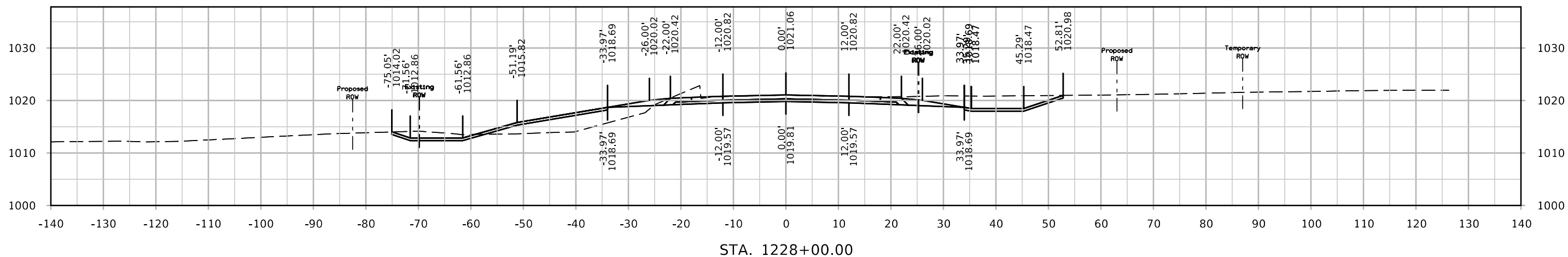


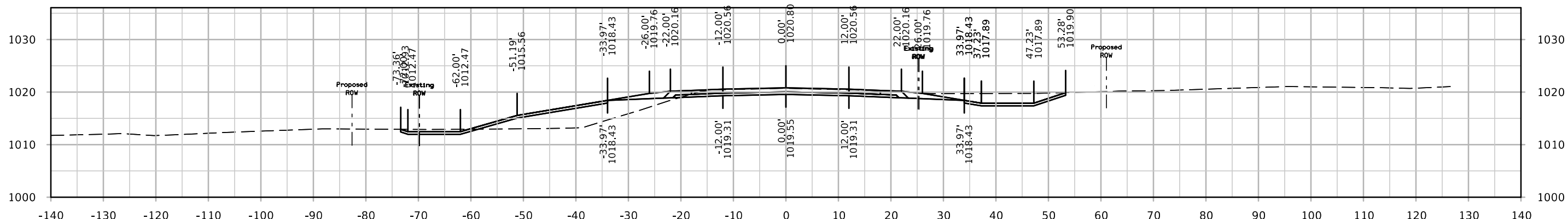
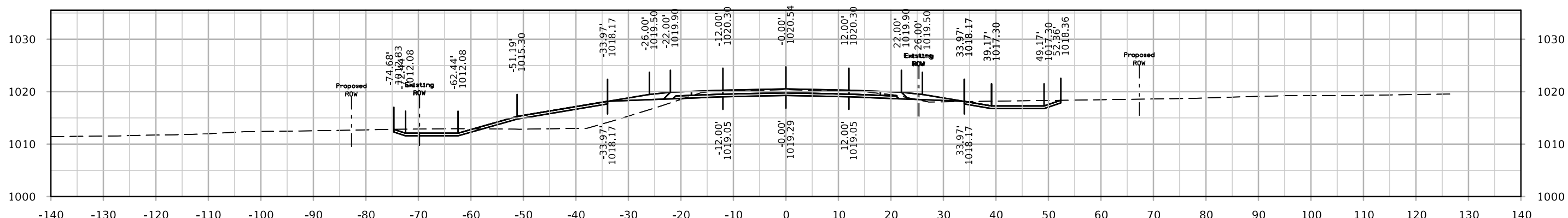
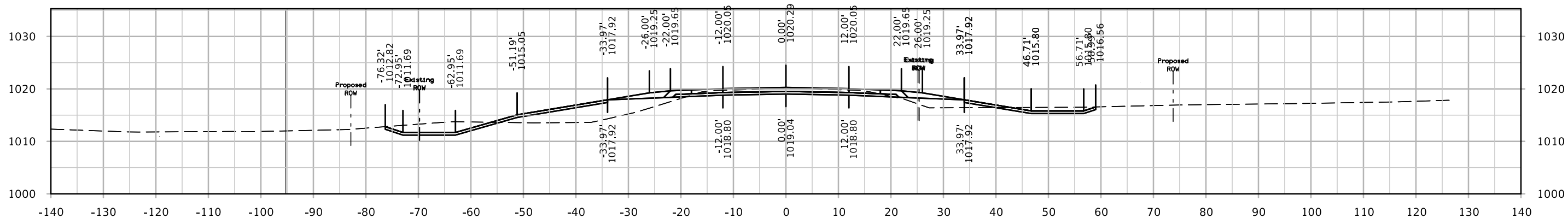


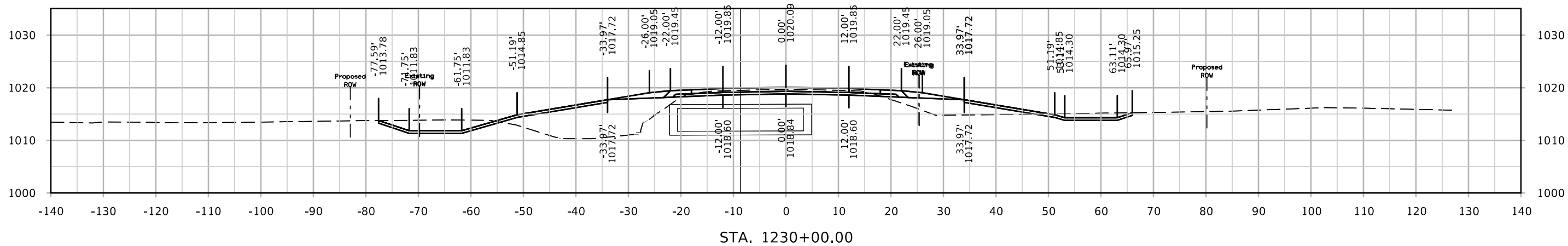




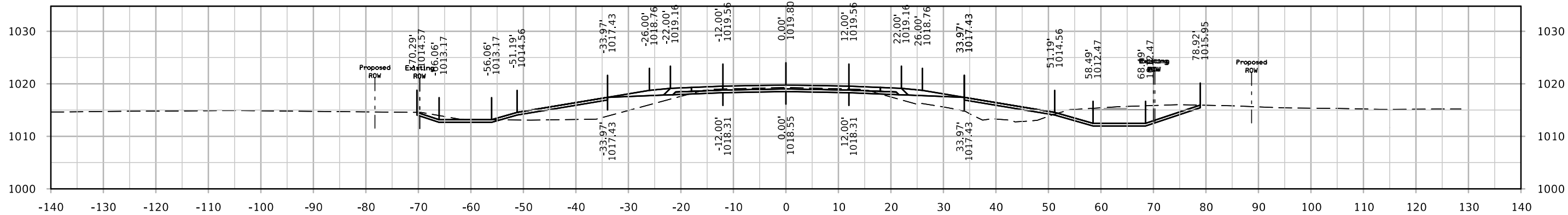




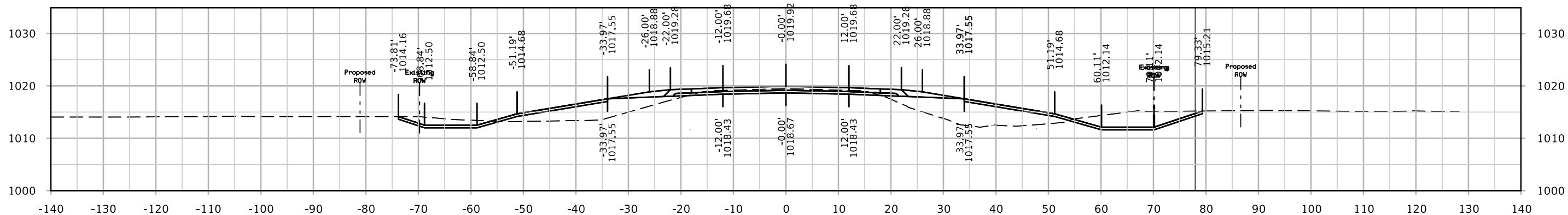




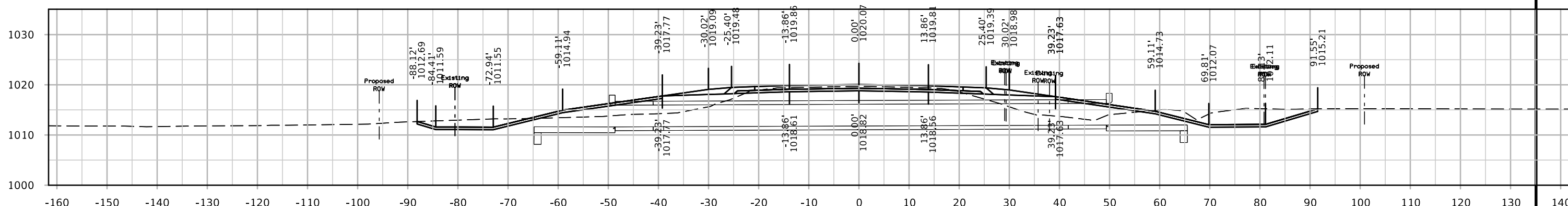
STA. 1230+00.00



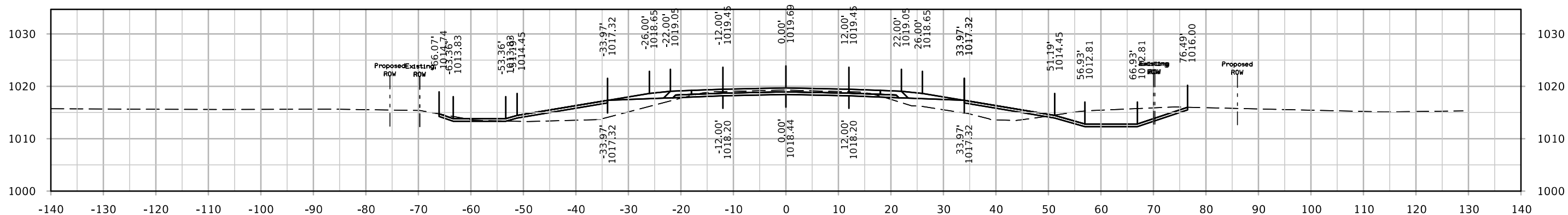
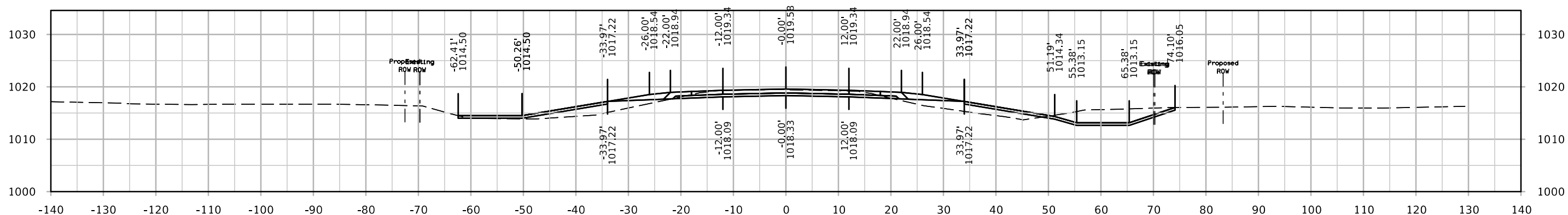
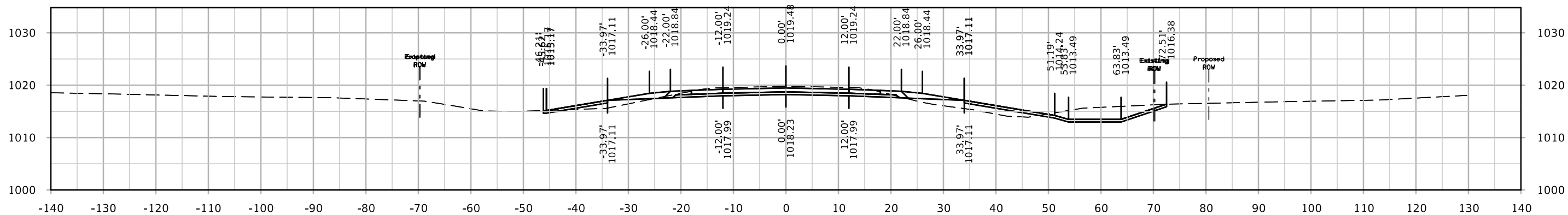
STA. 1231+00.00

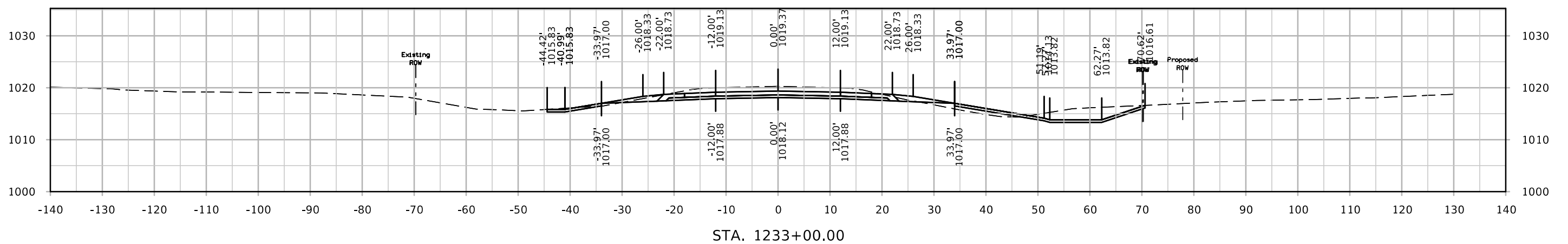
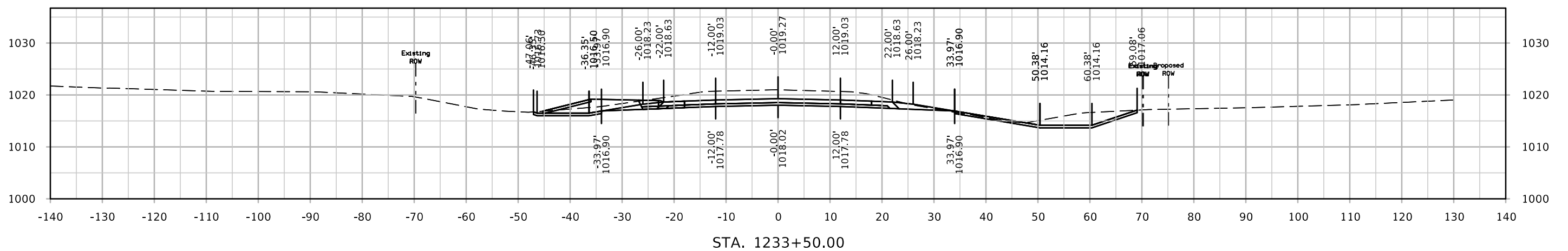
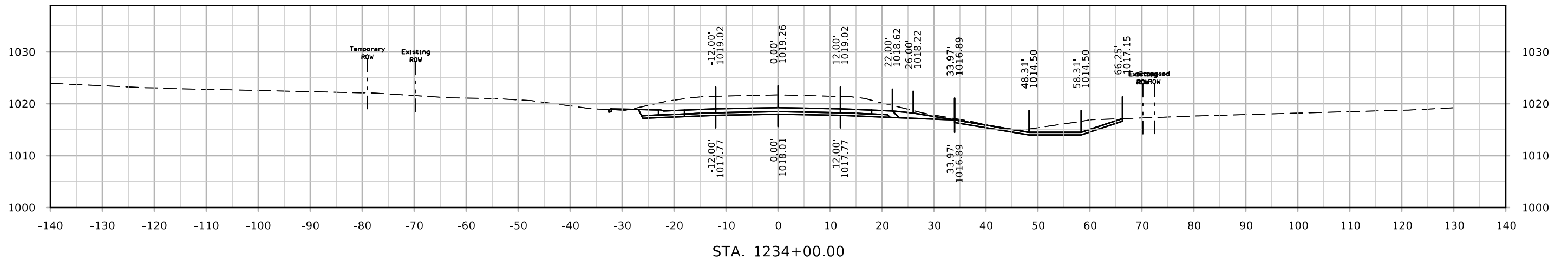


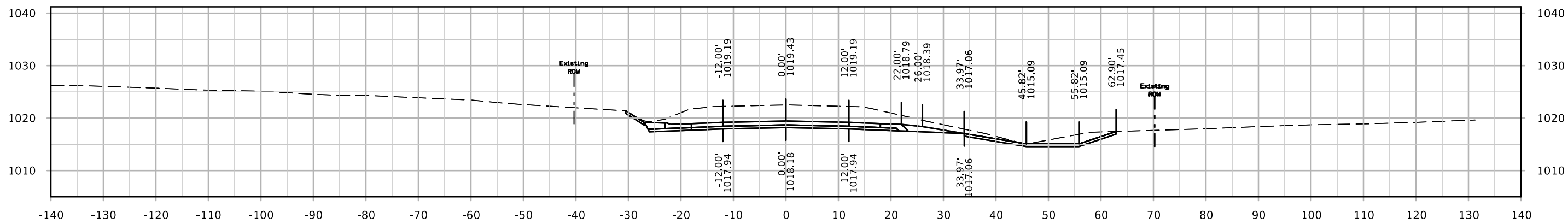
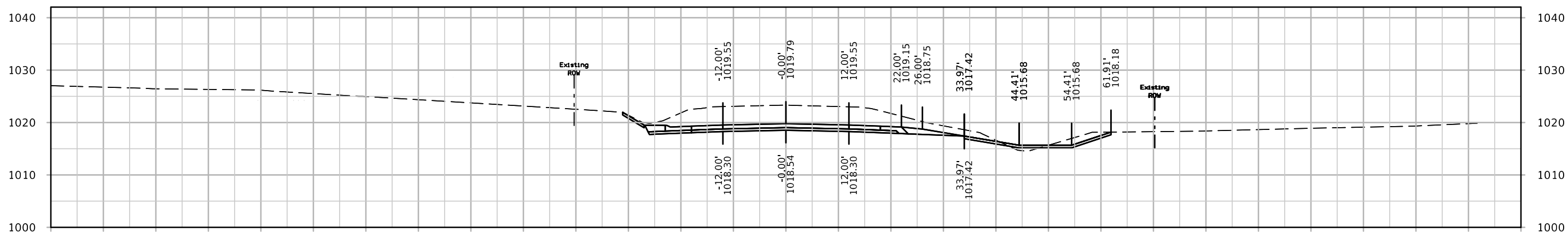
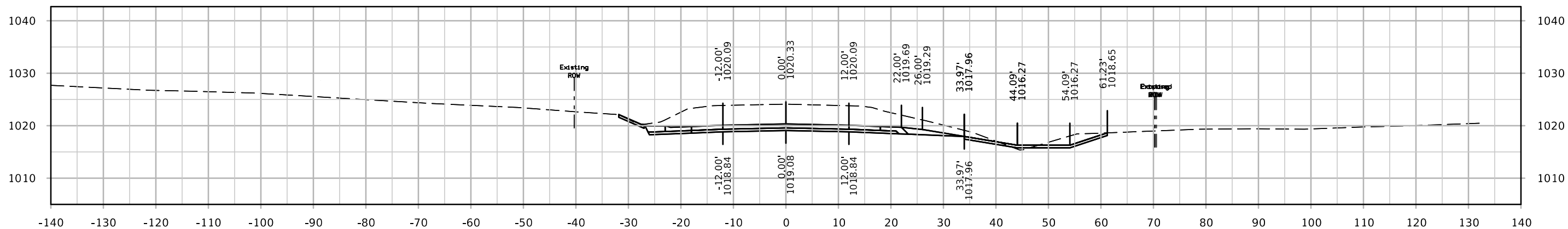
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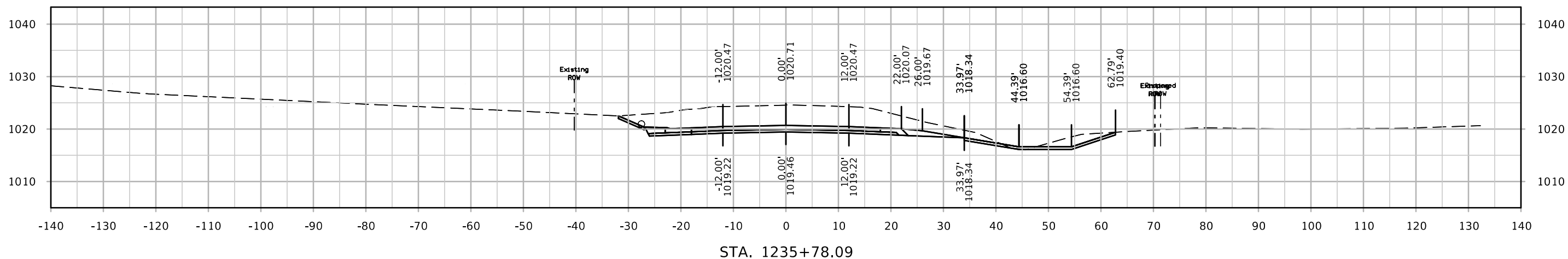
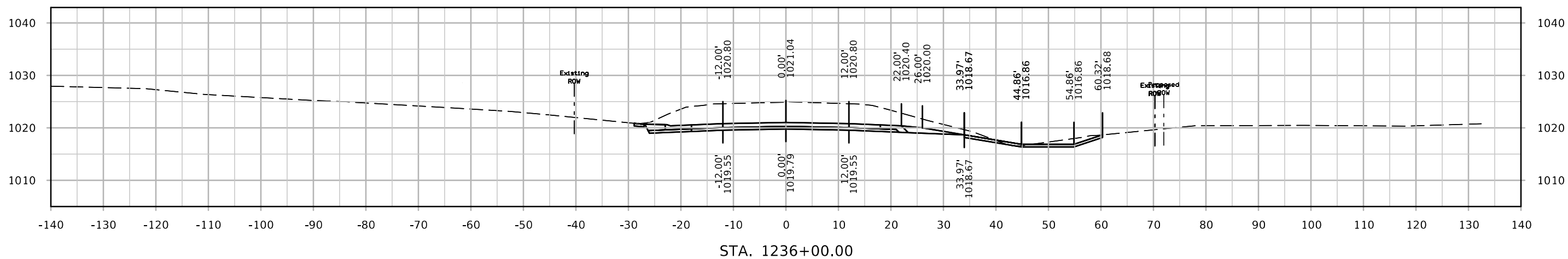
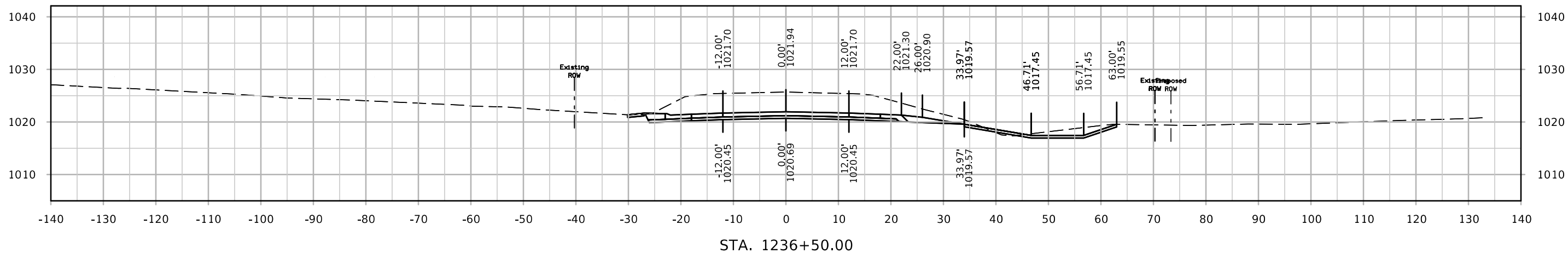


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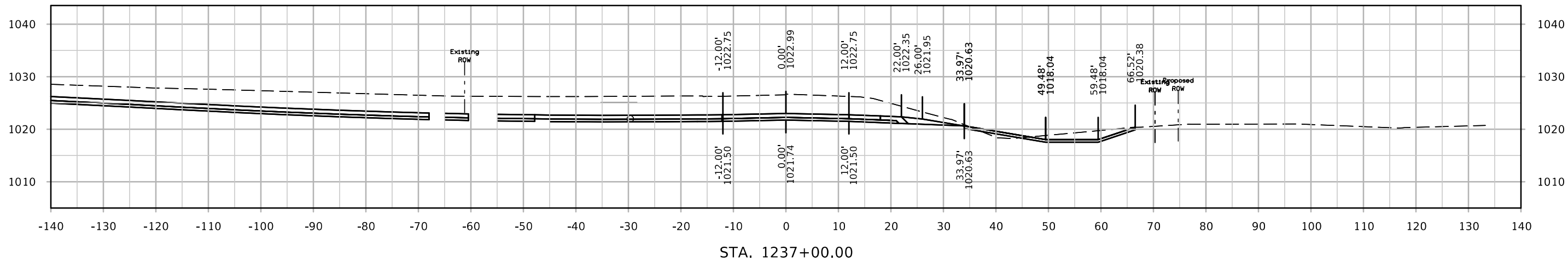
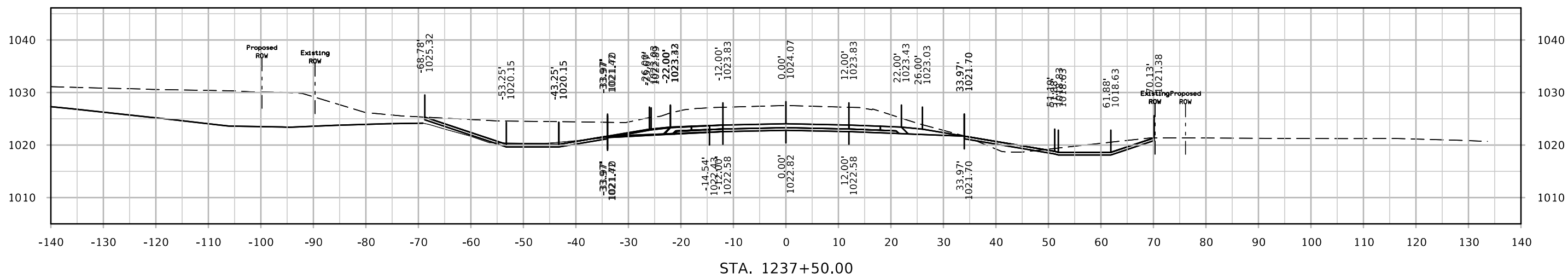
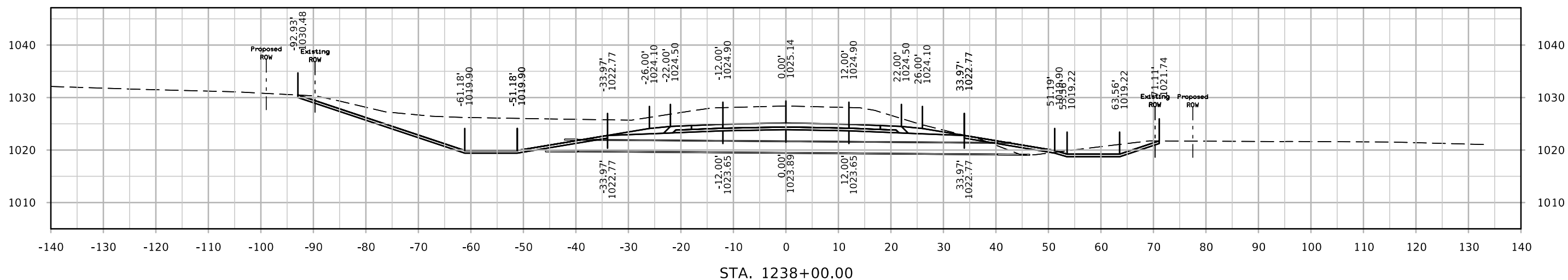


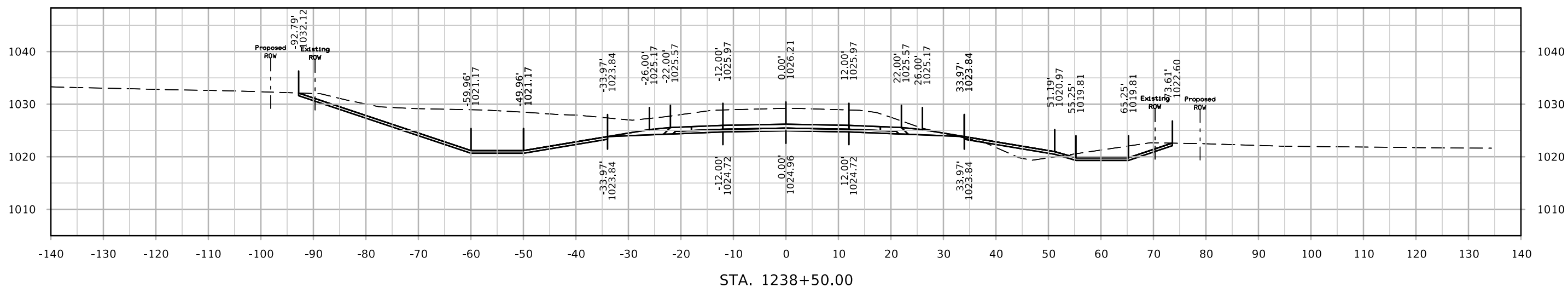
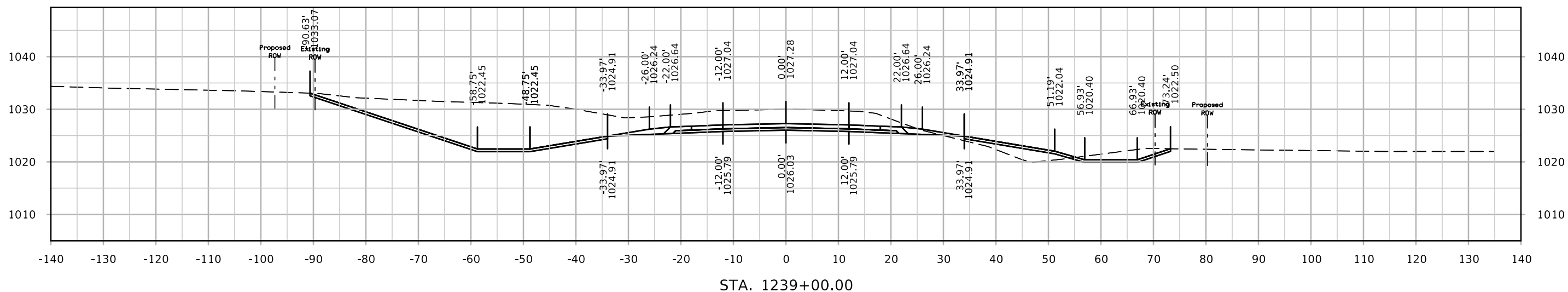
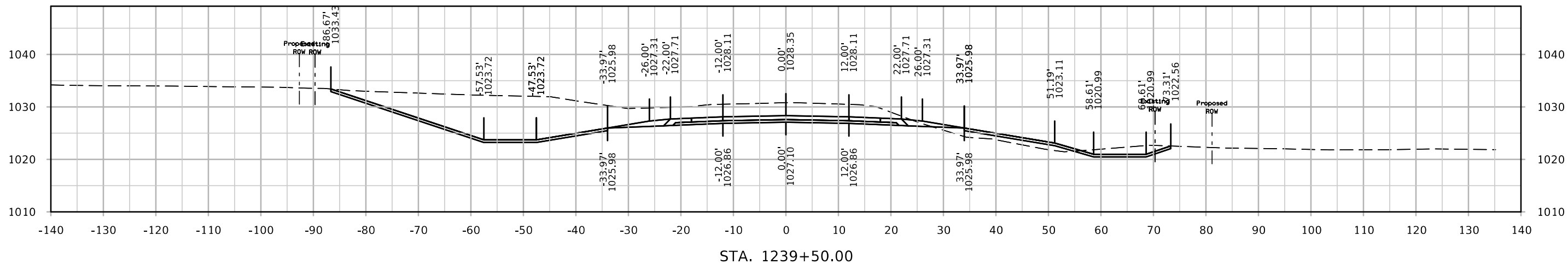


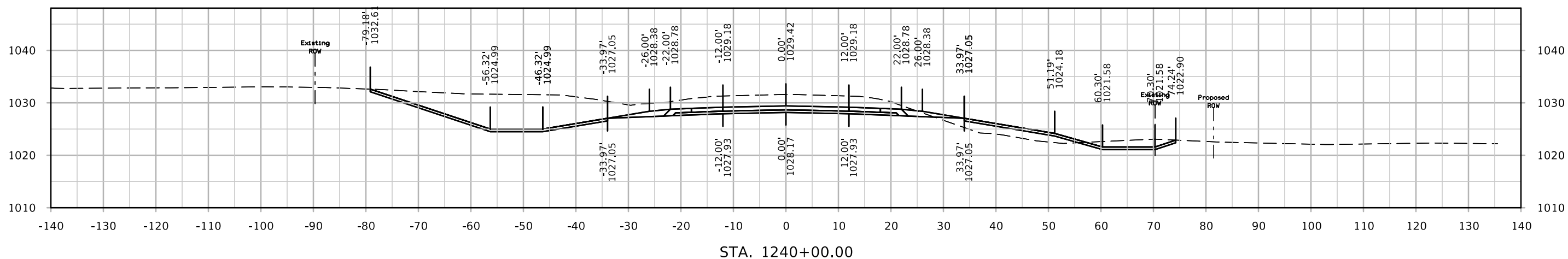
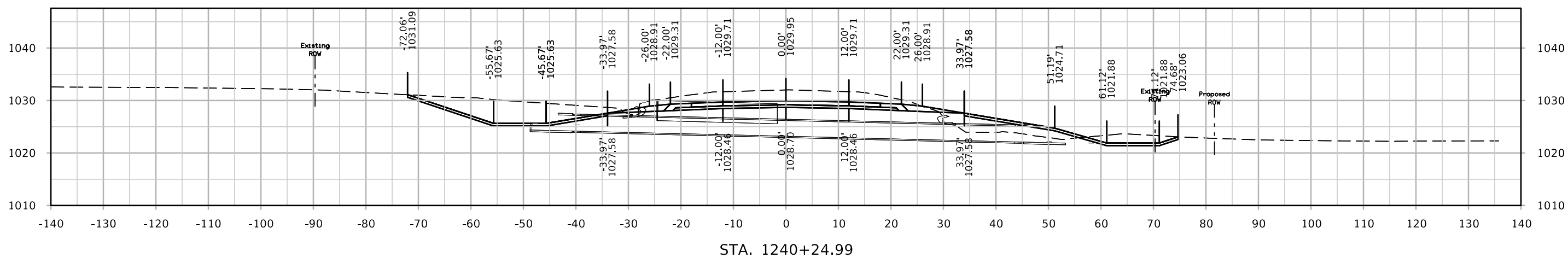
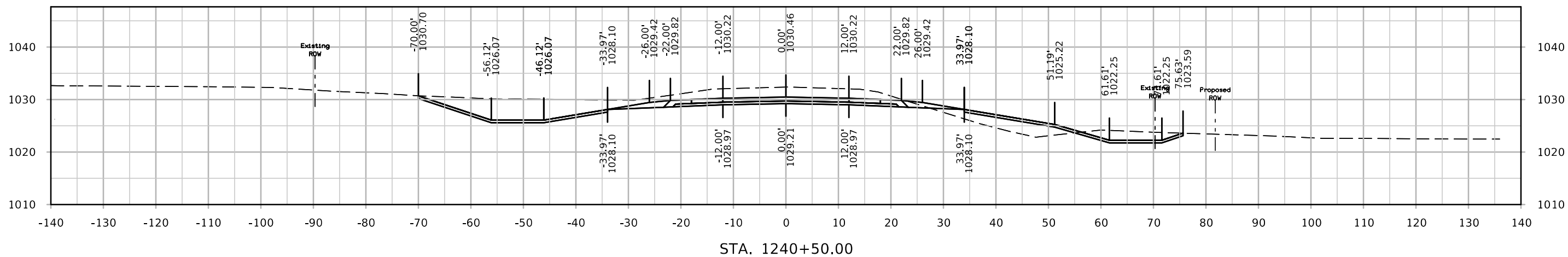




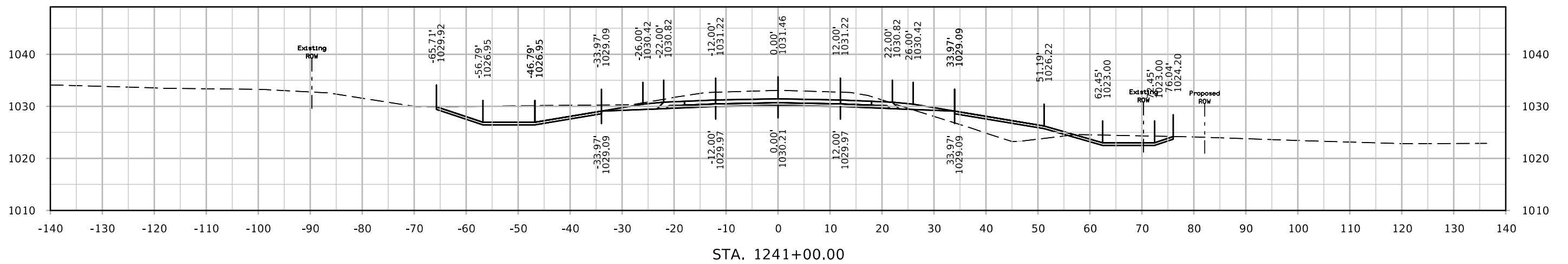
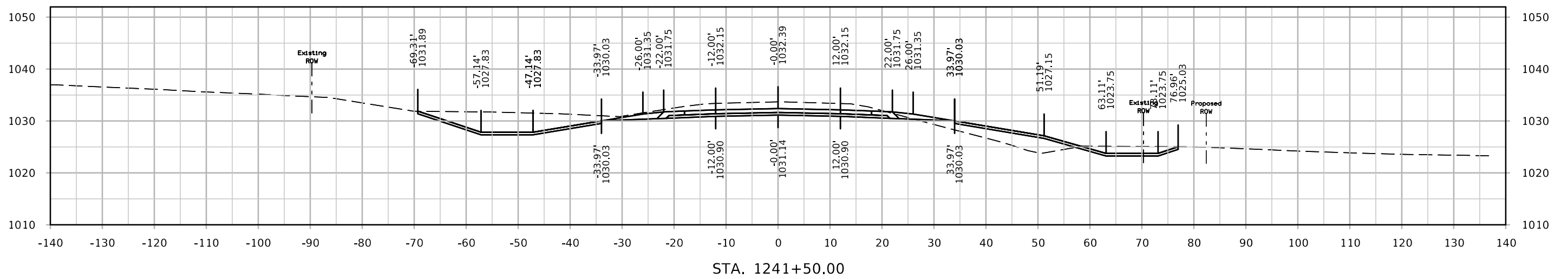
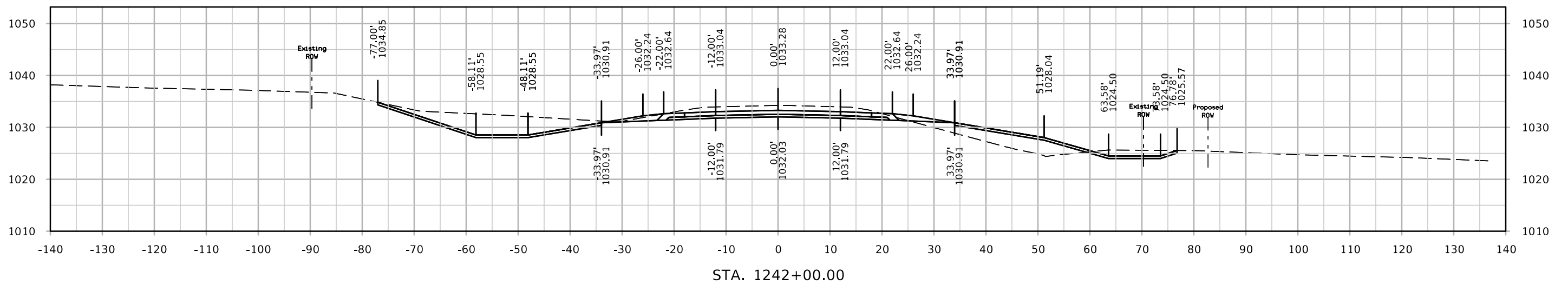
IA 13



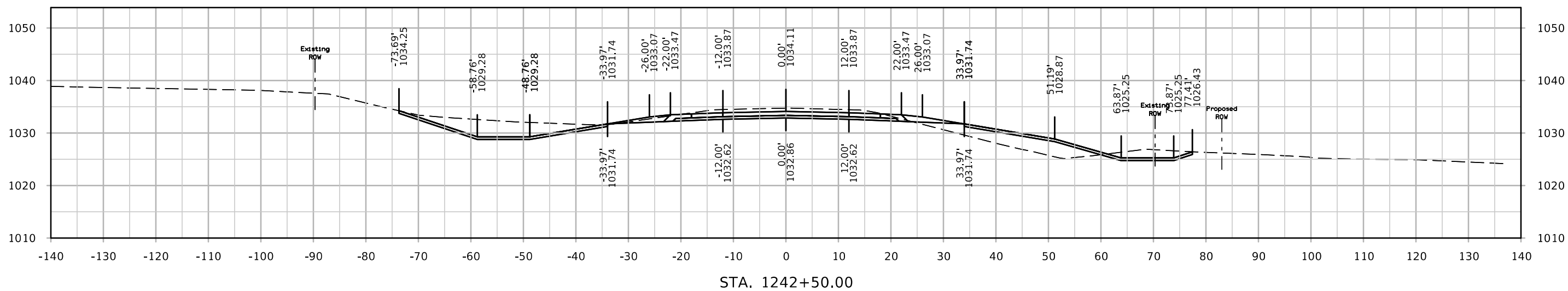
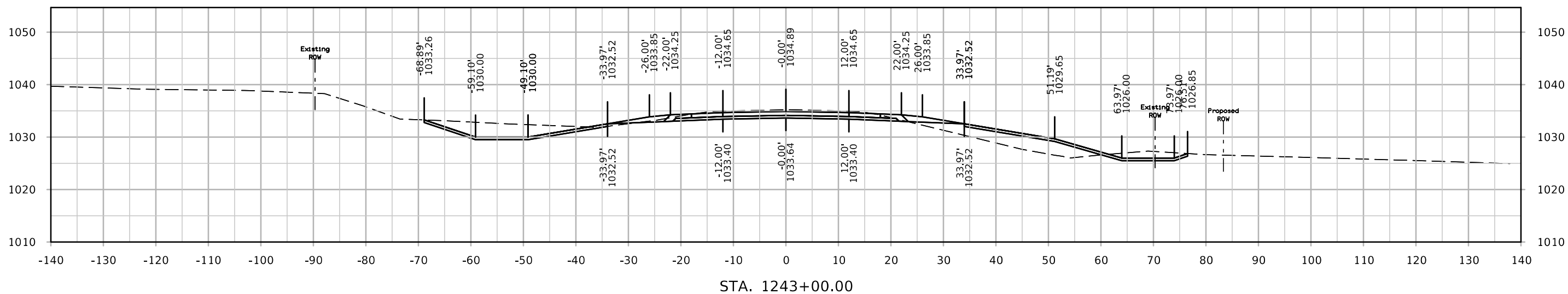
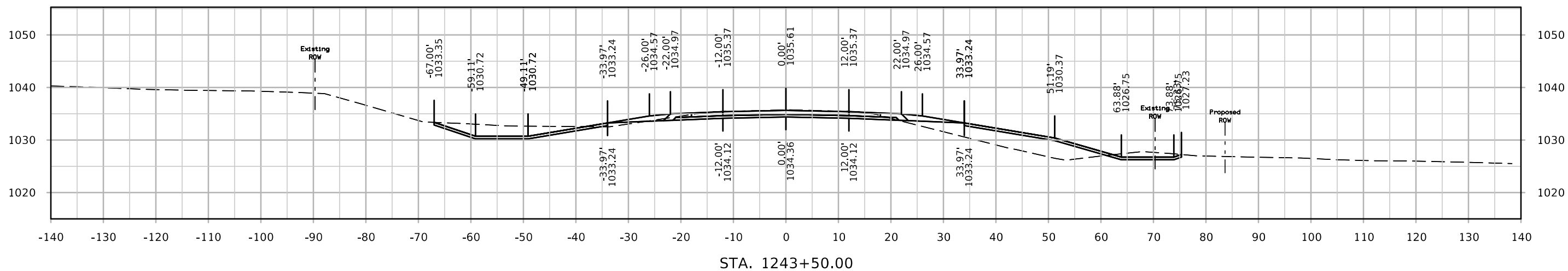


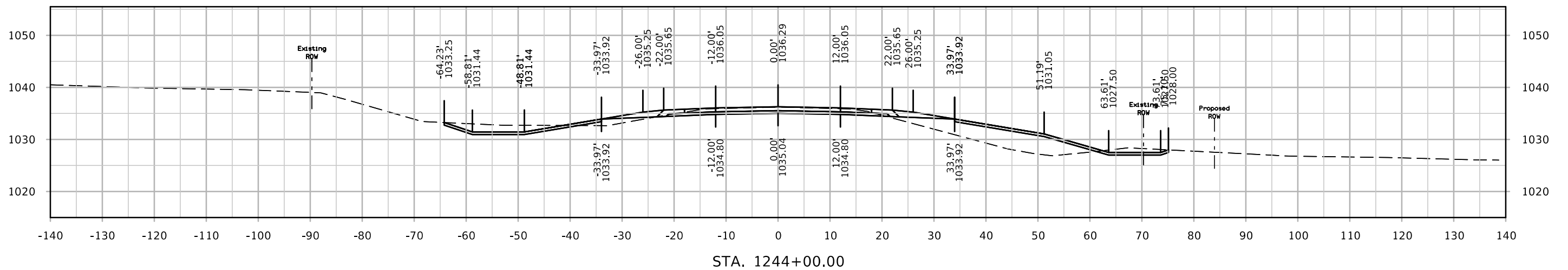
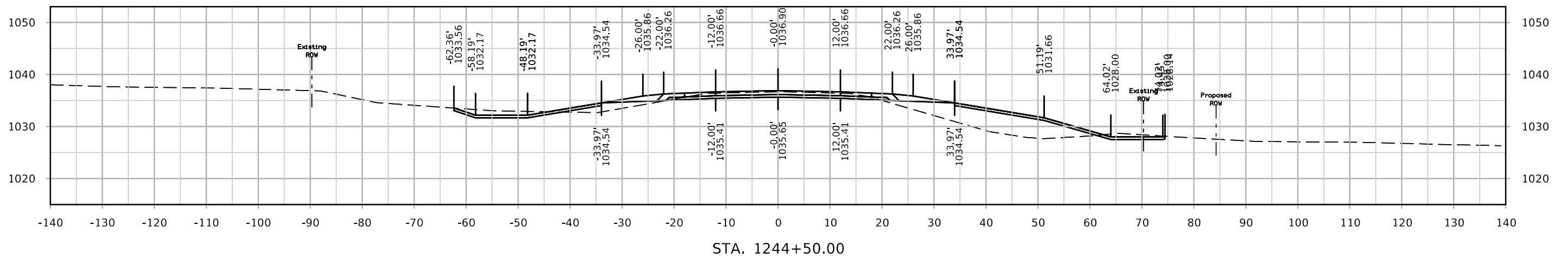
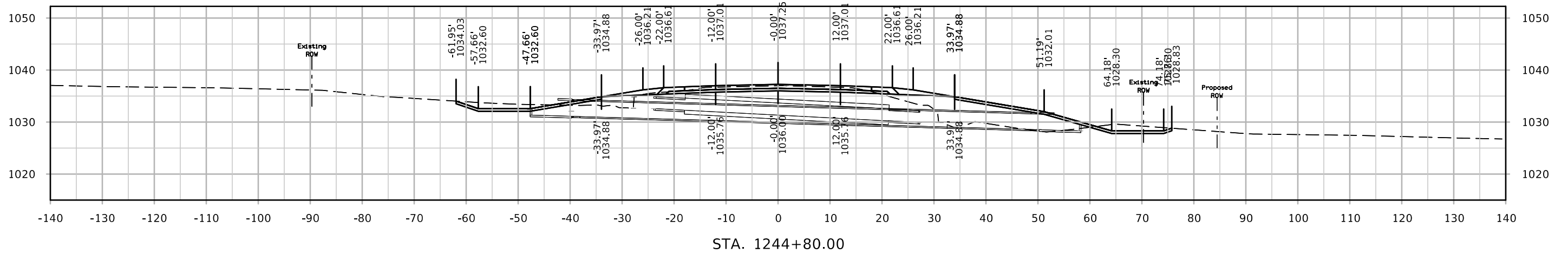


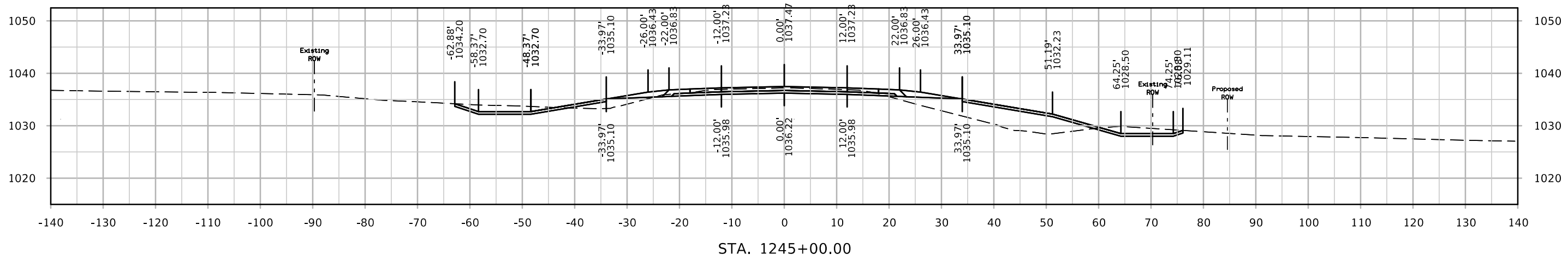
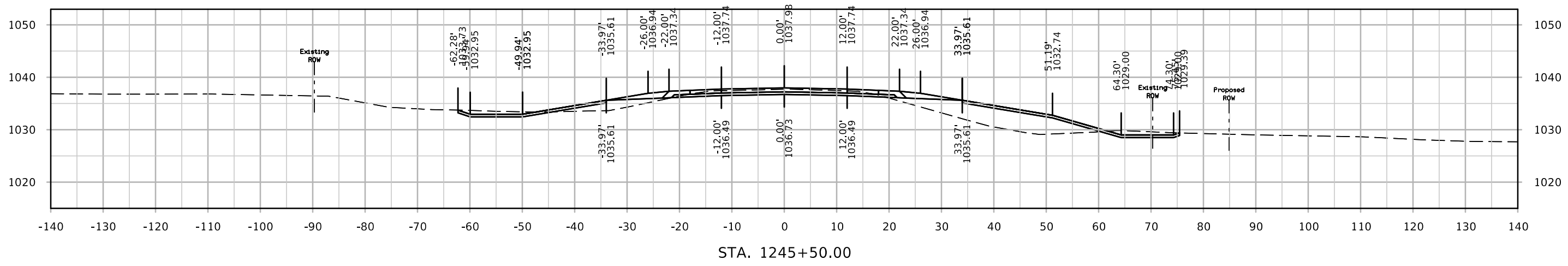
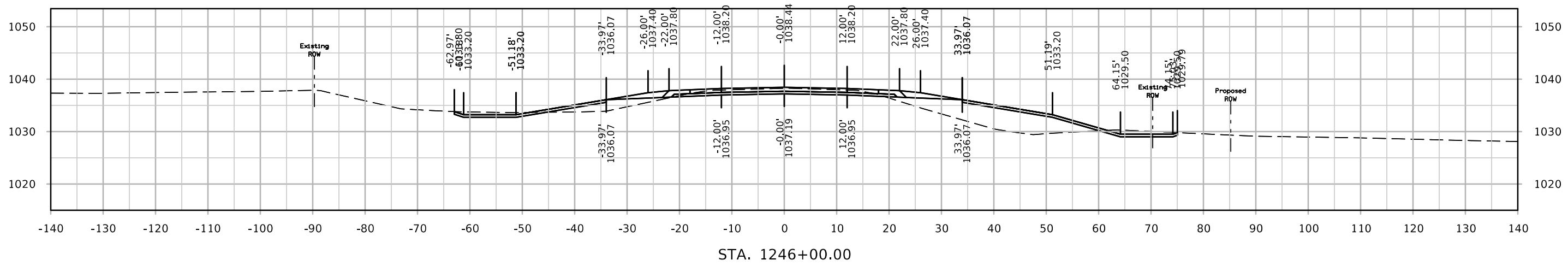
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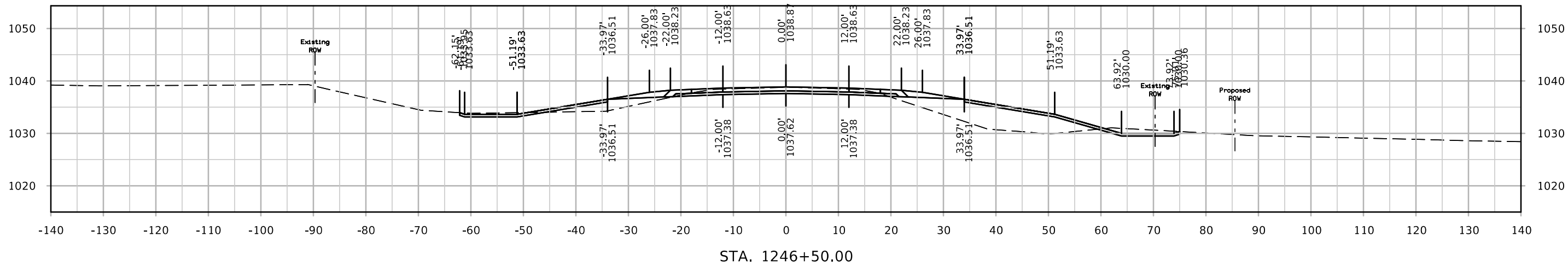
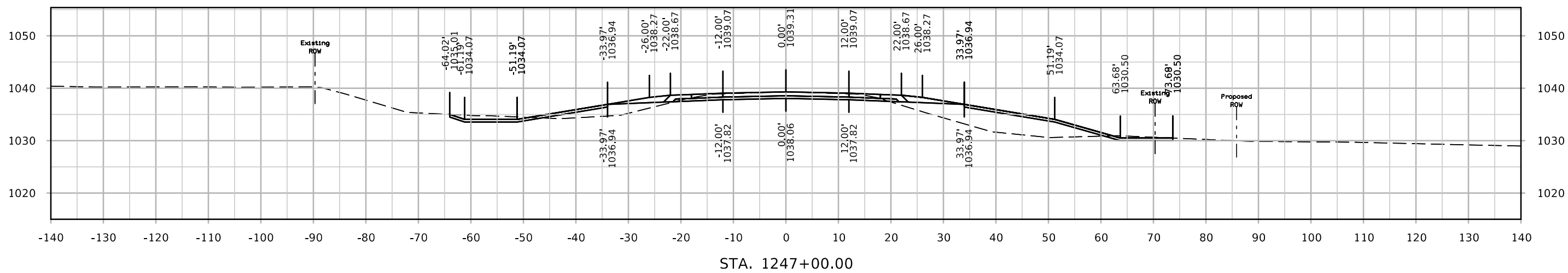
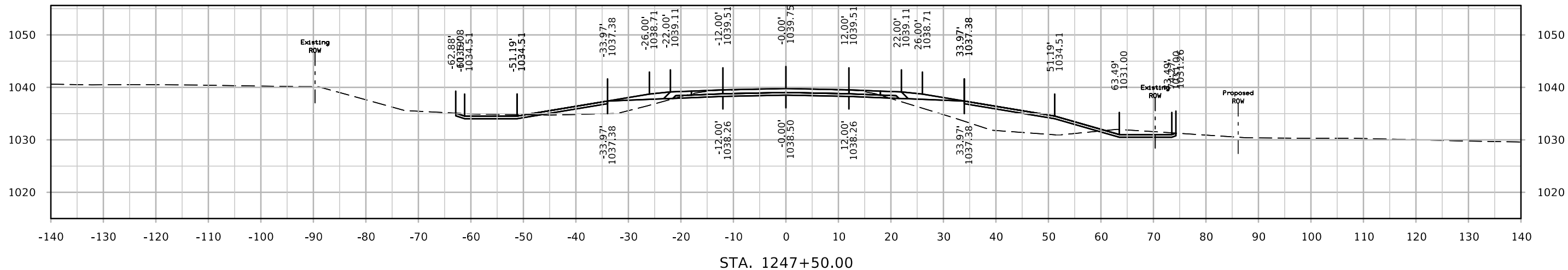


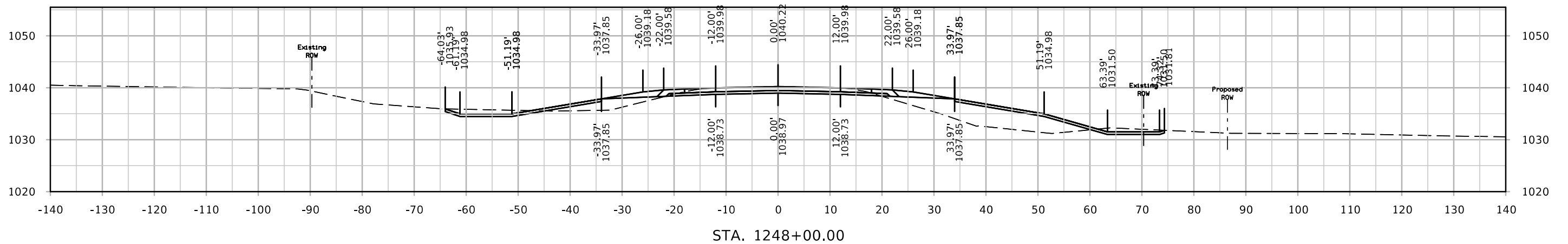
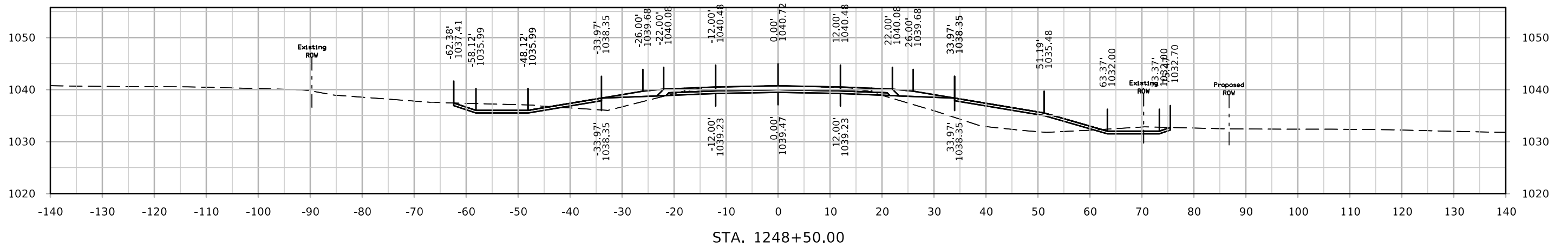
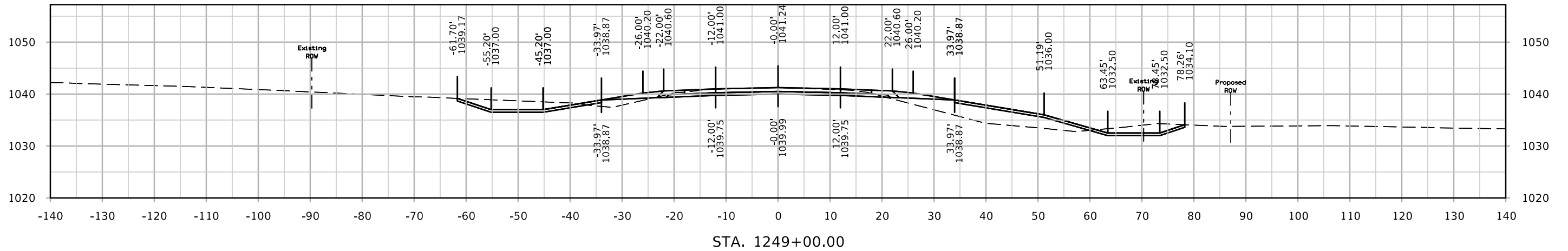
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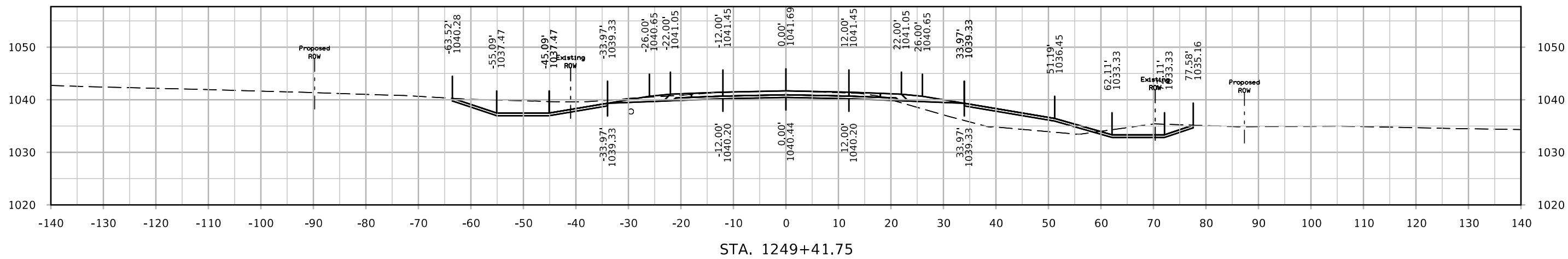
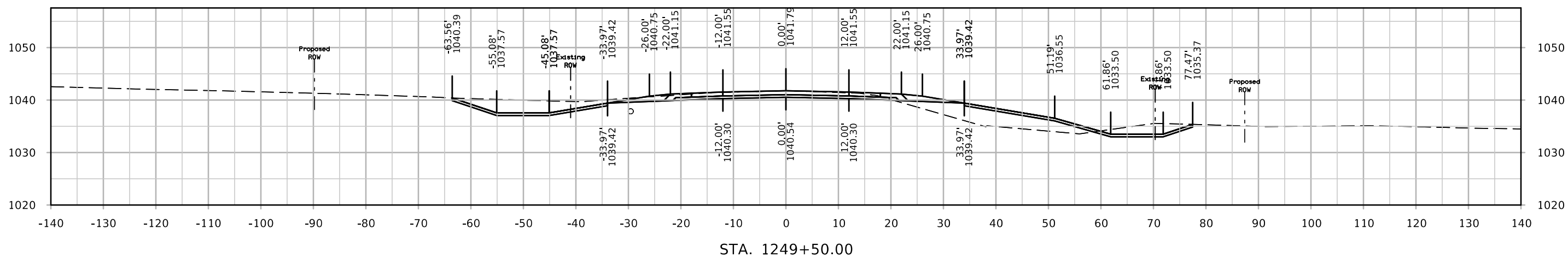
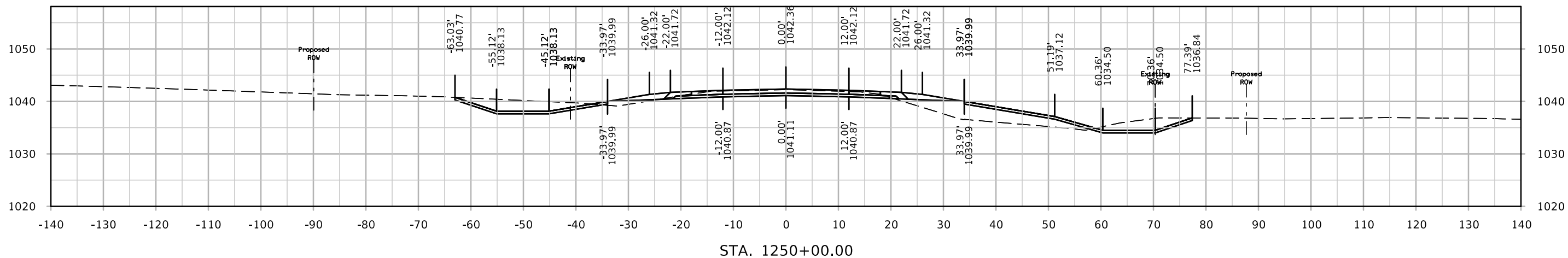


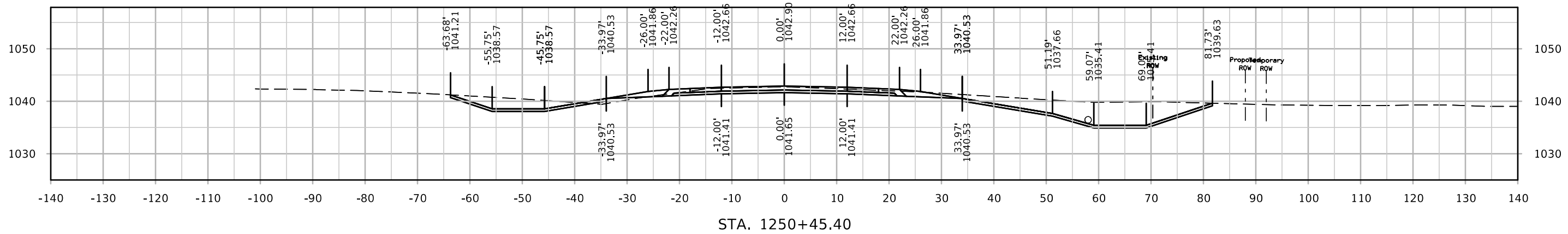
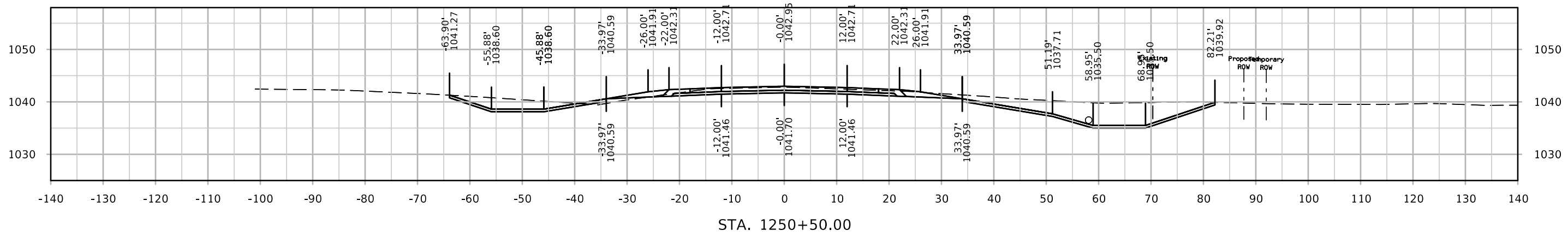
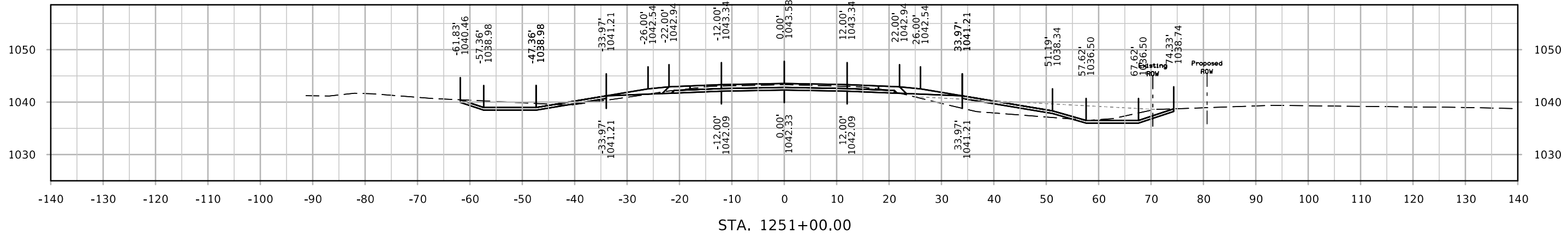


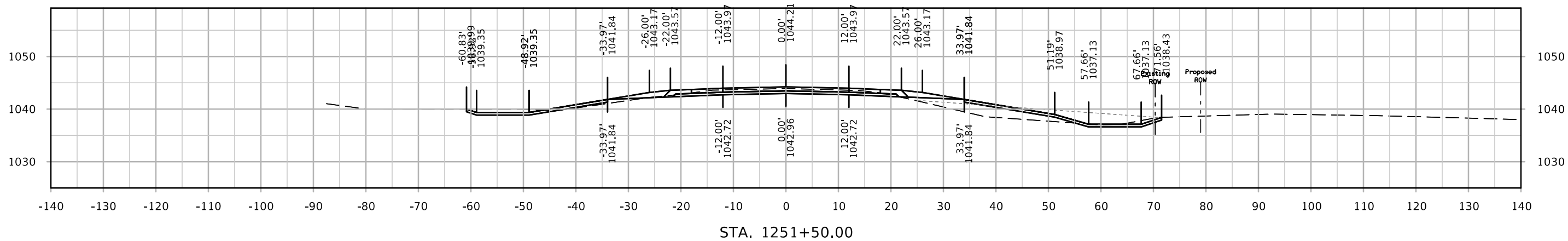
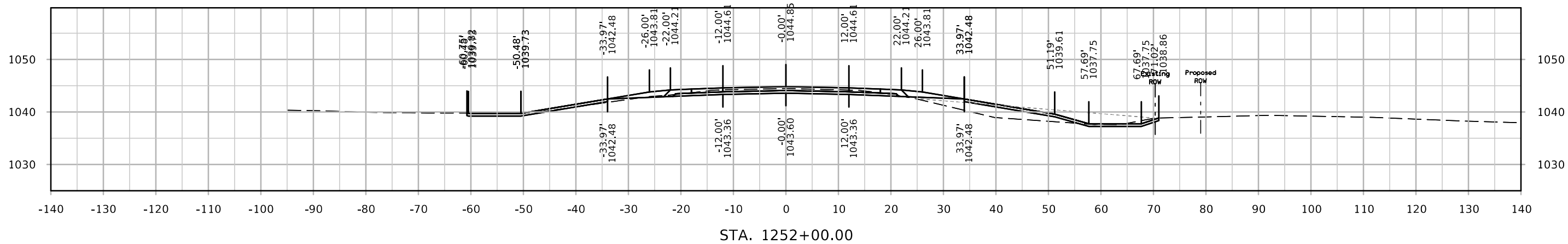
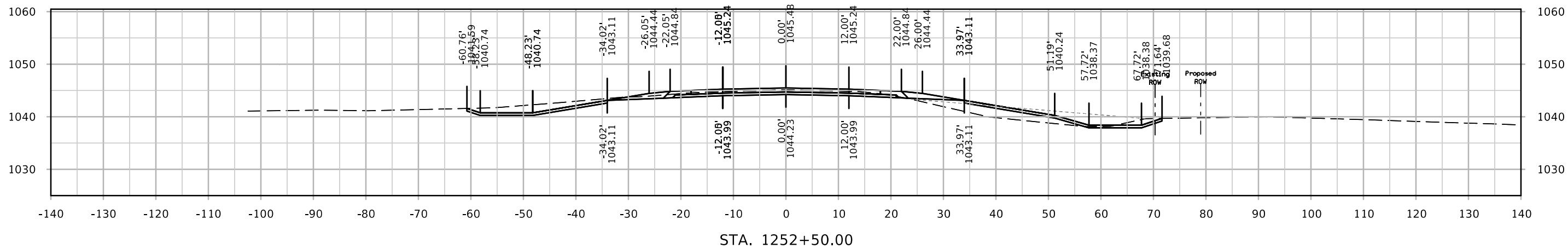


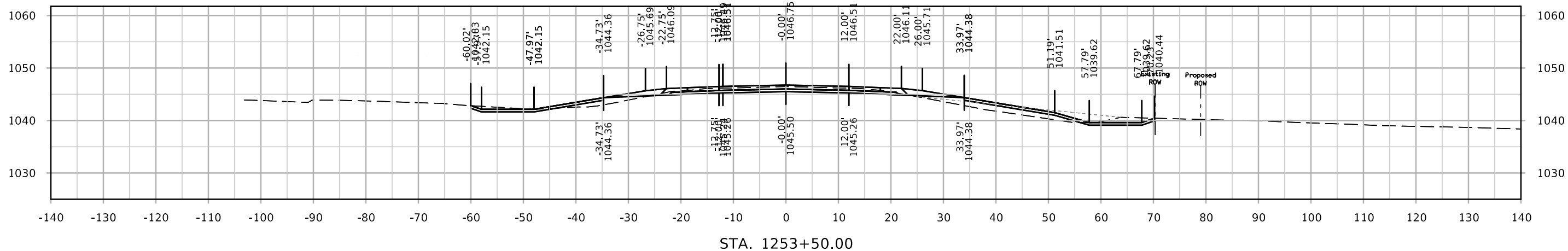




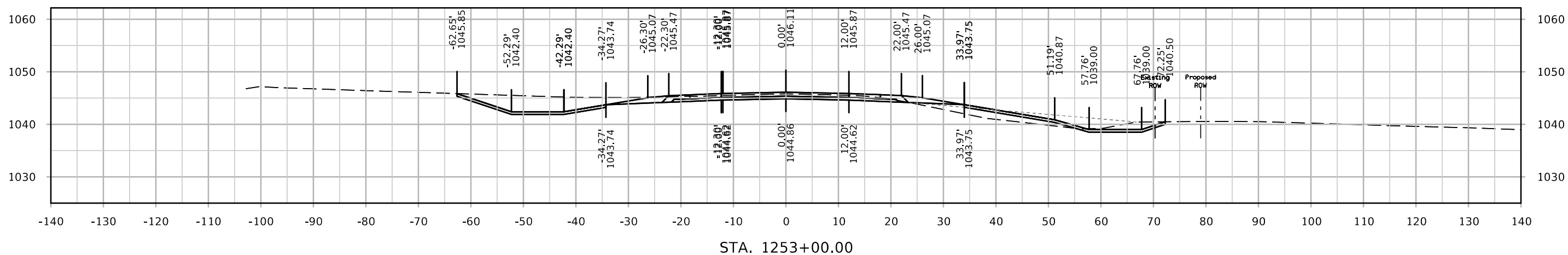




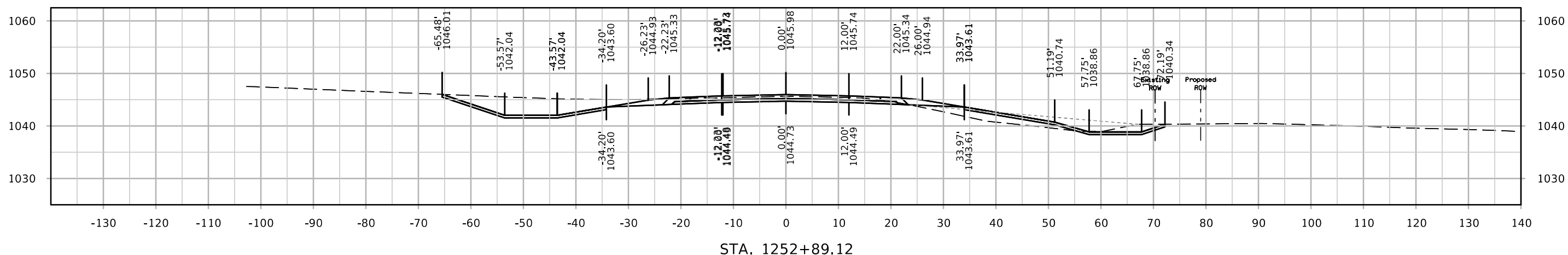




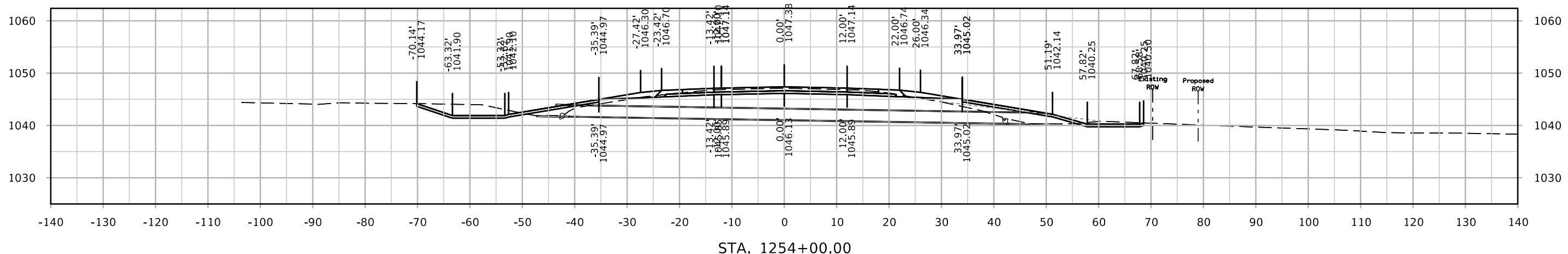
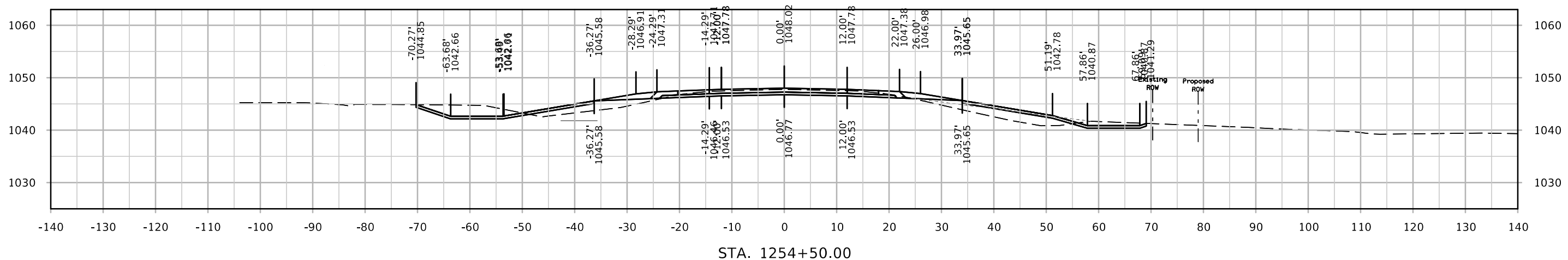
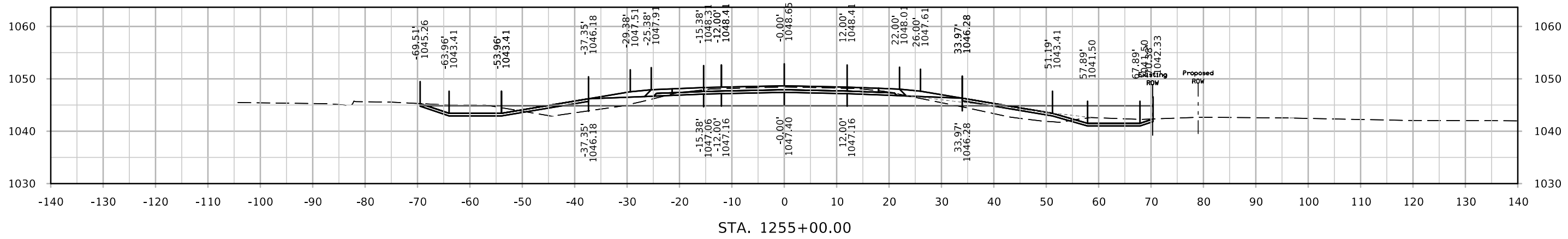
STA. 1253+50.00

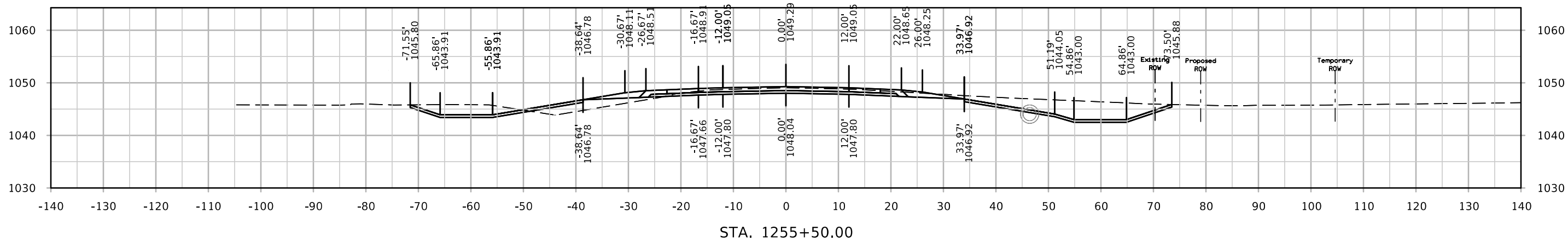
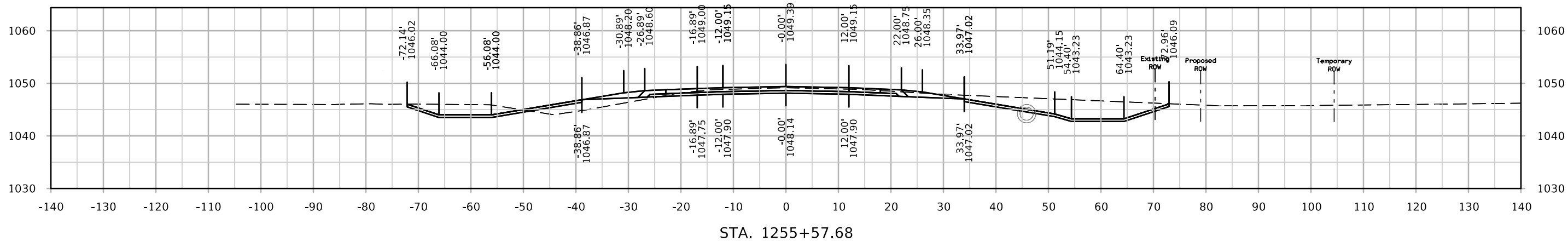
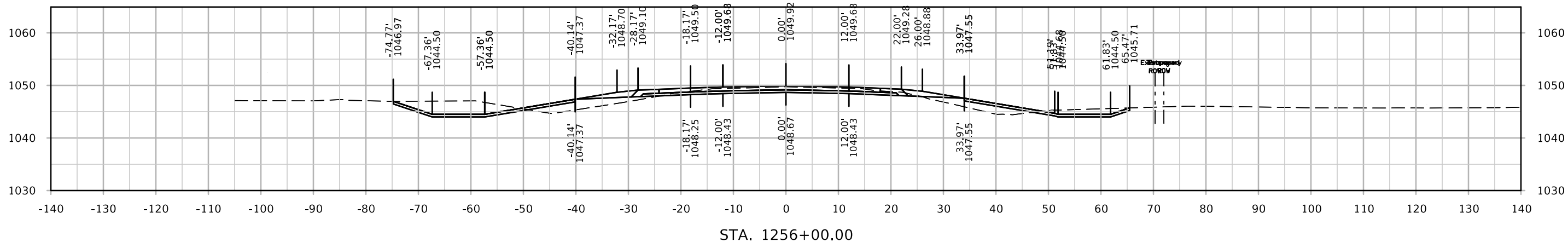


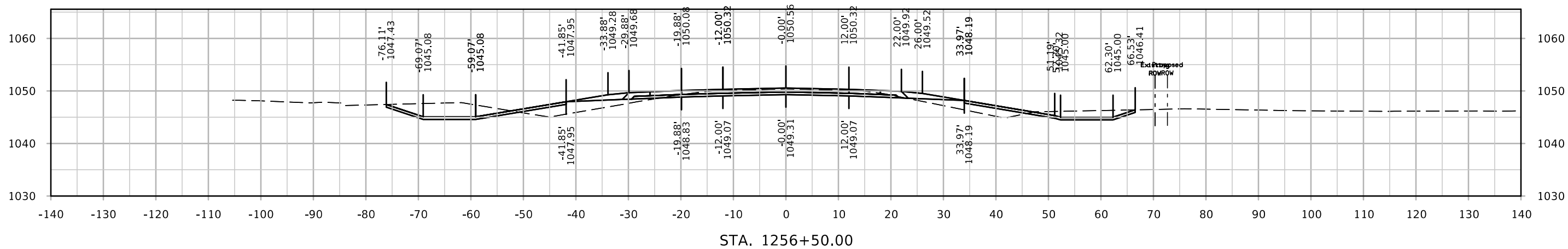
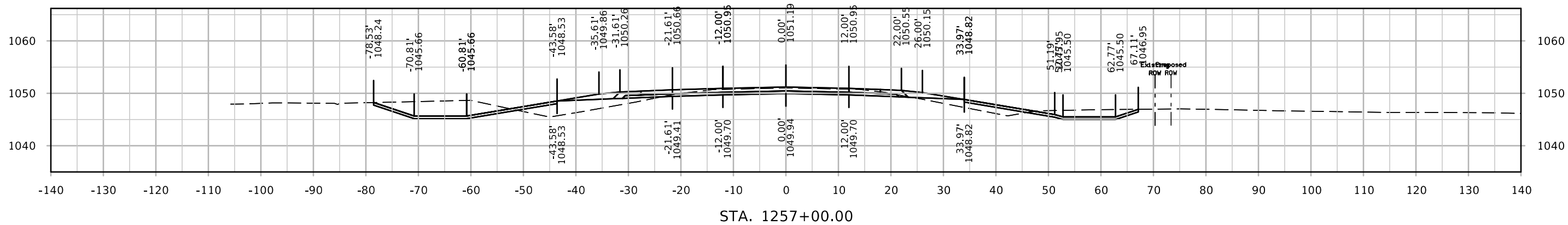
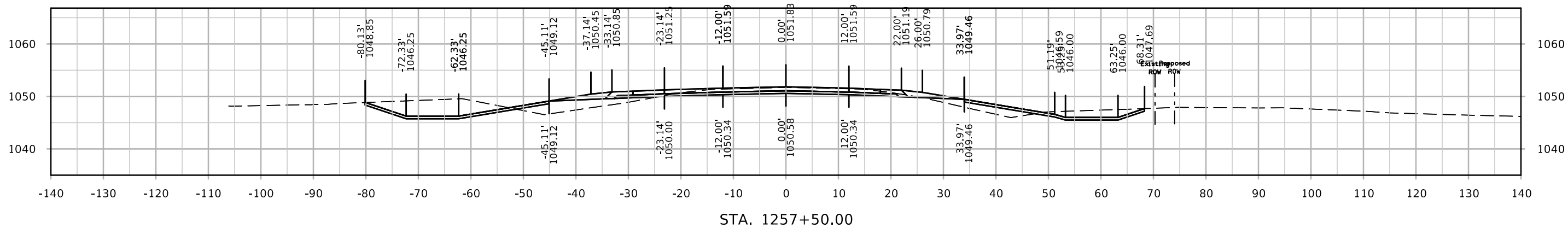
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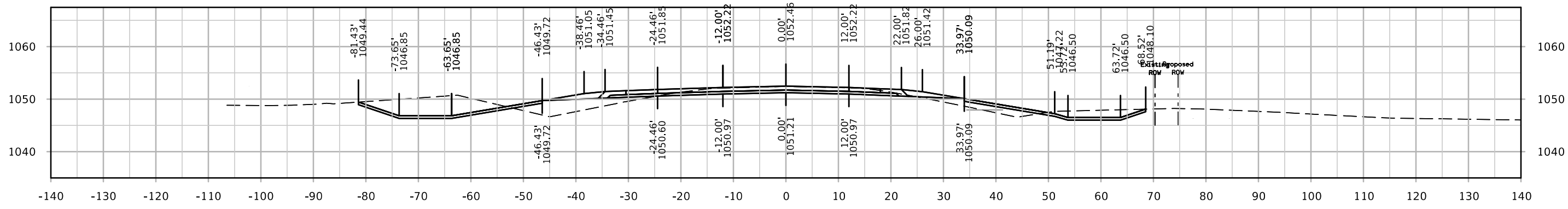
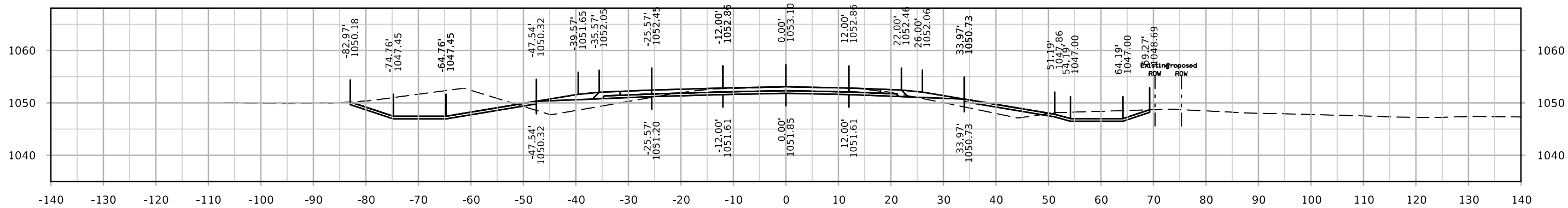
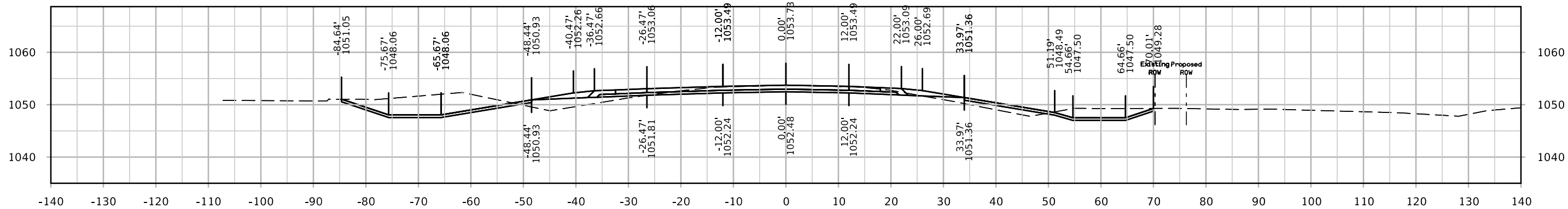


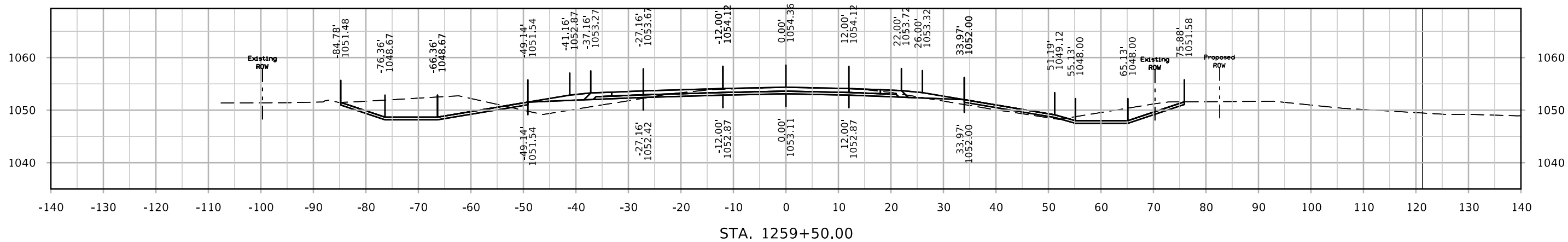
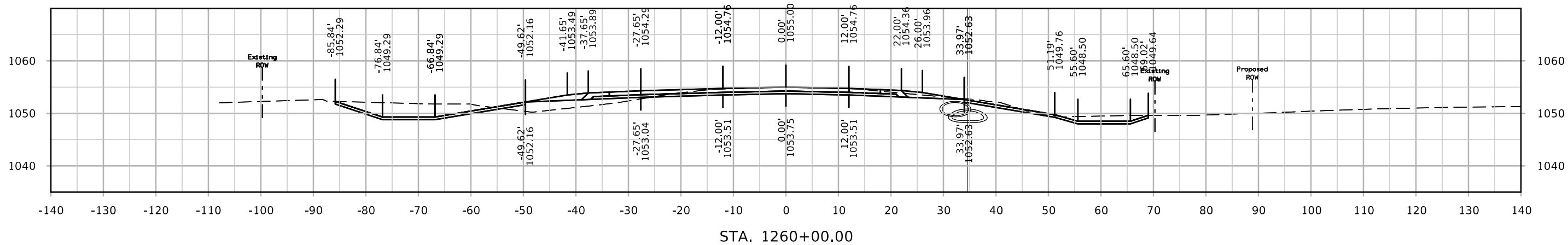
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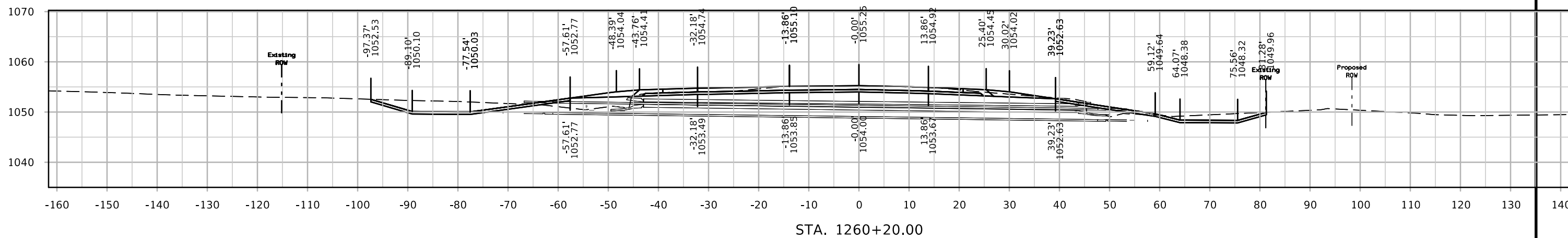
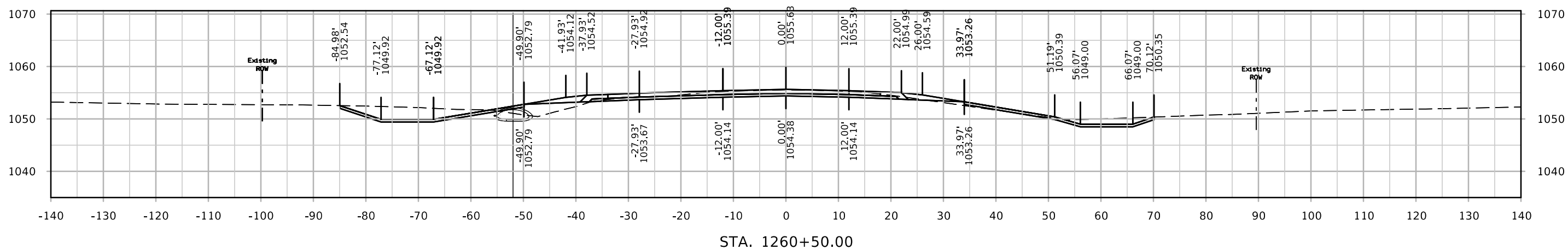
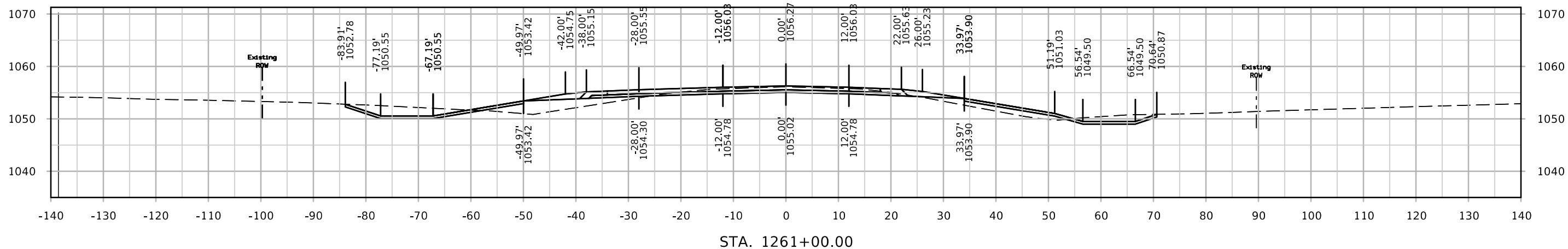


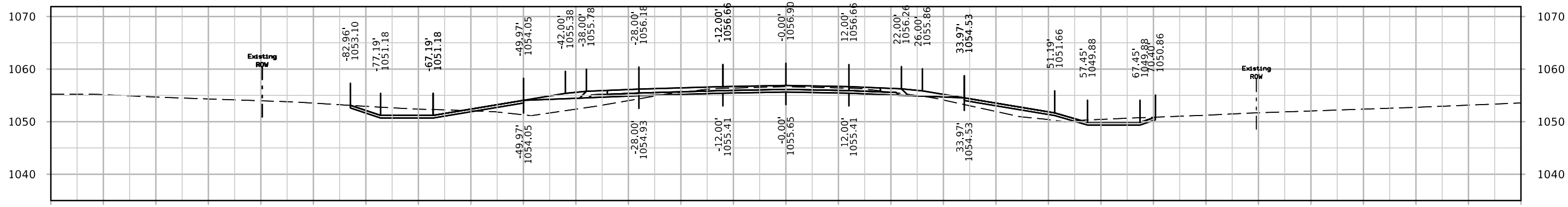
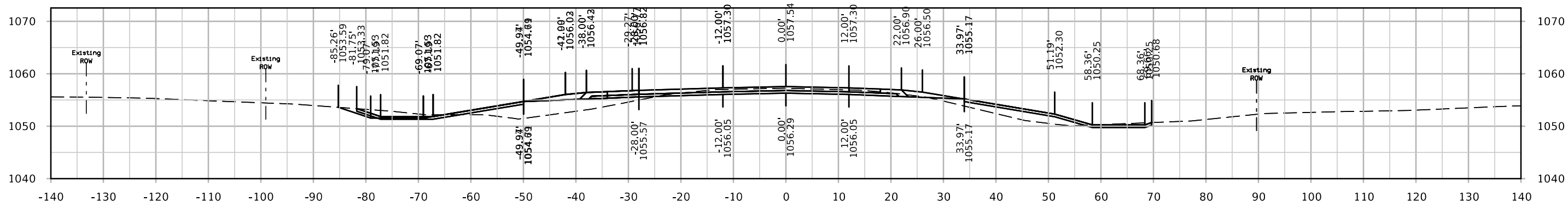
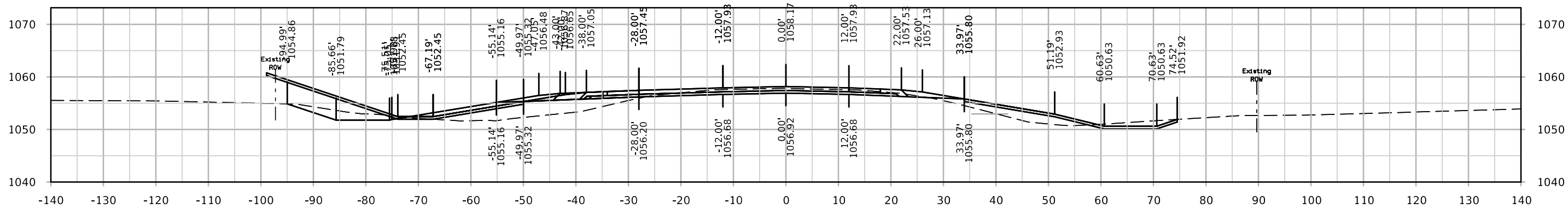


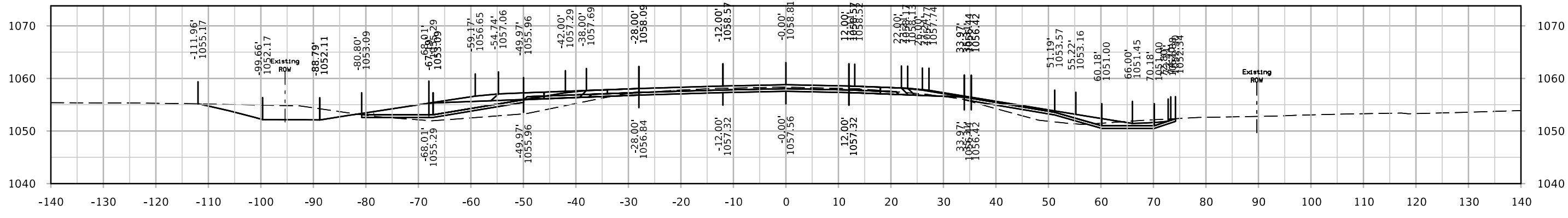
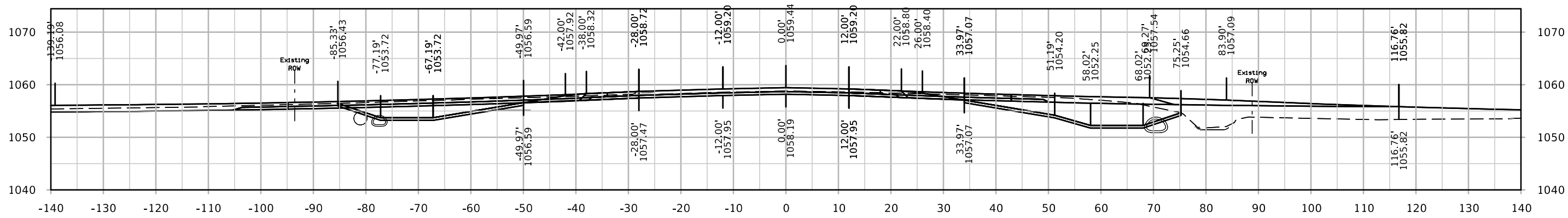
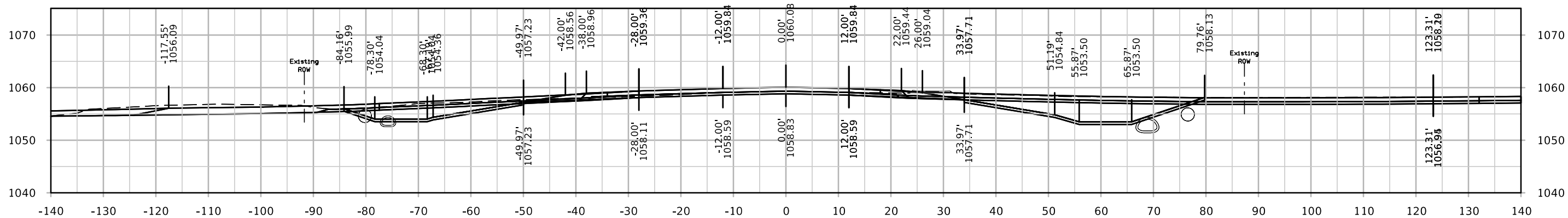


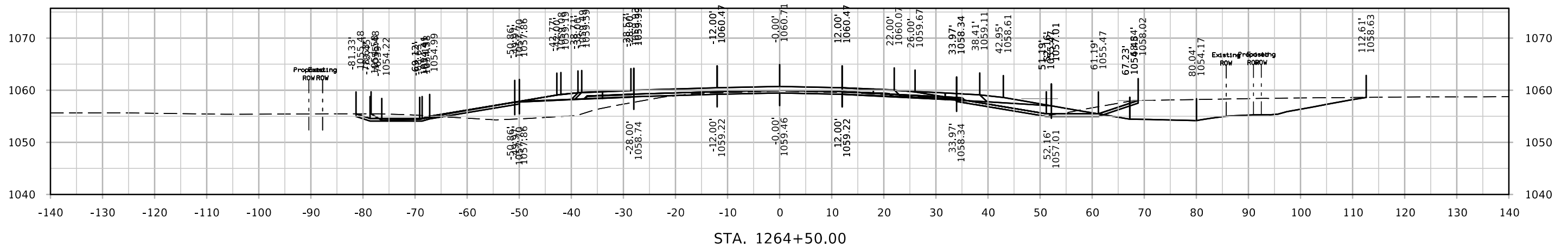
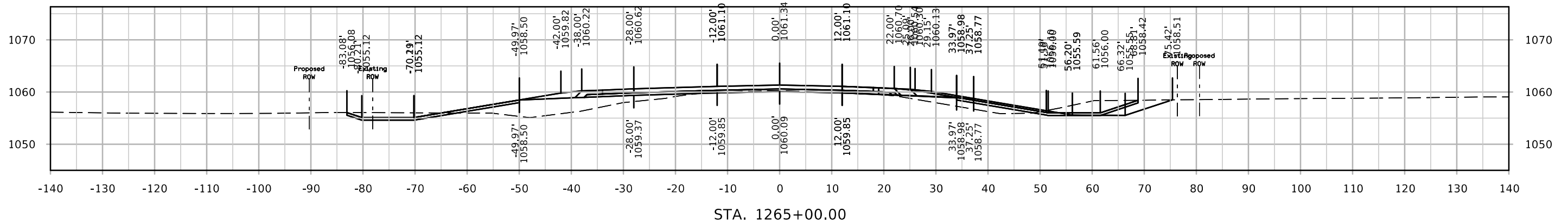
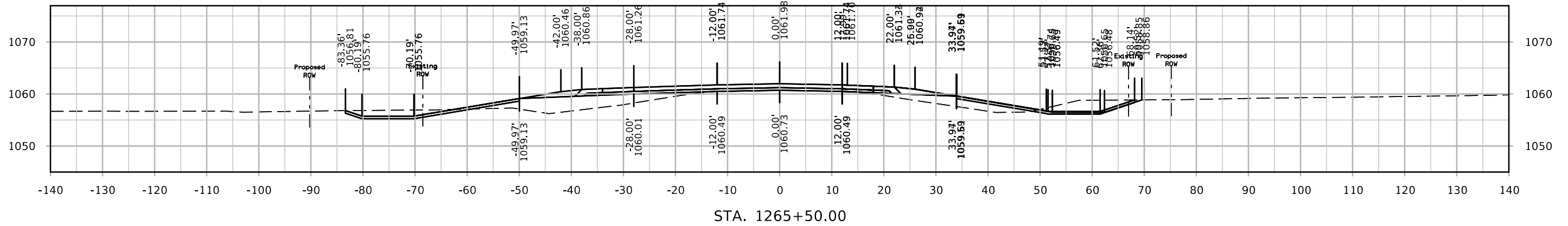


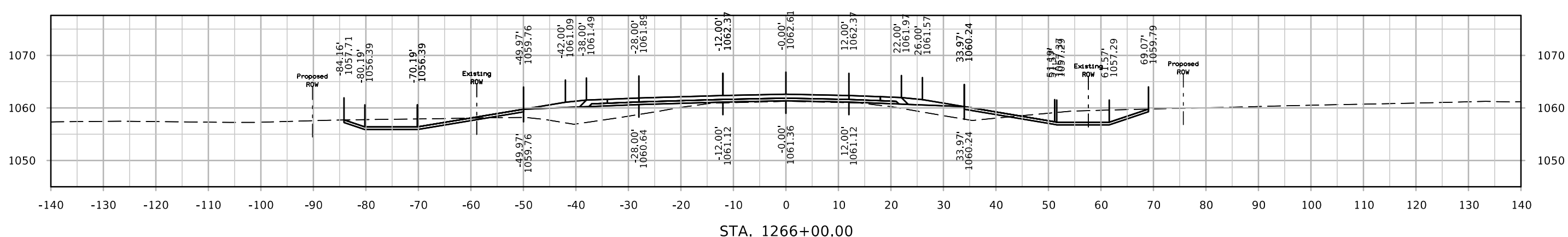
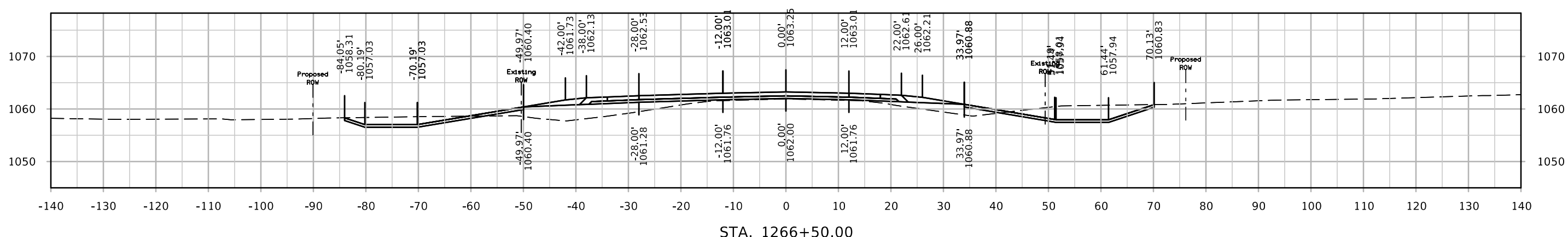
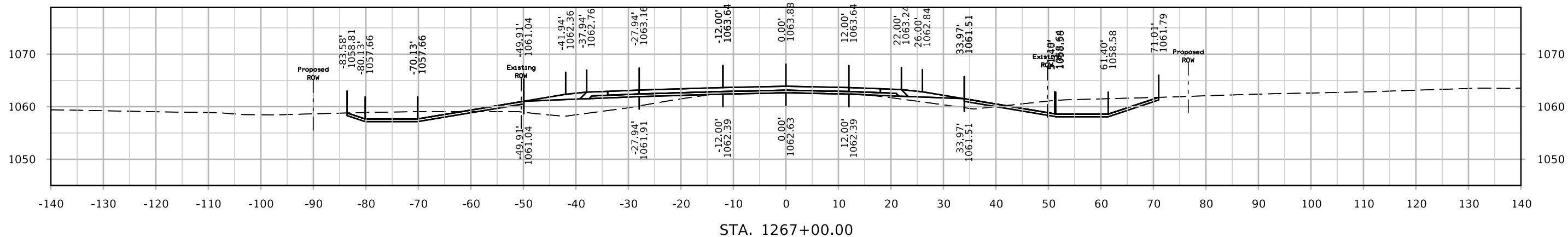


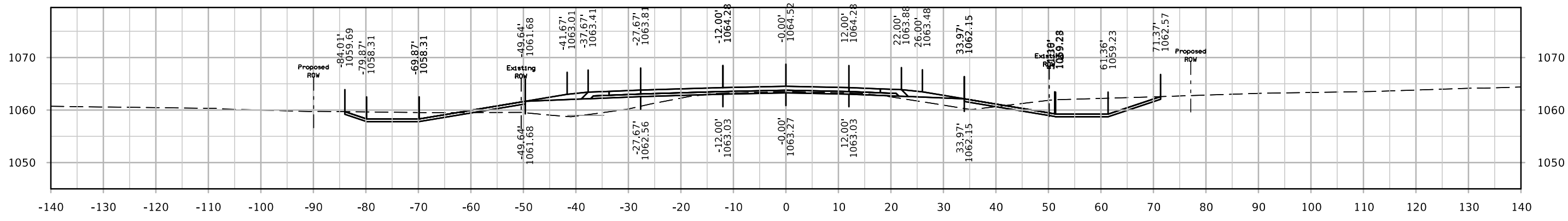
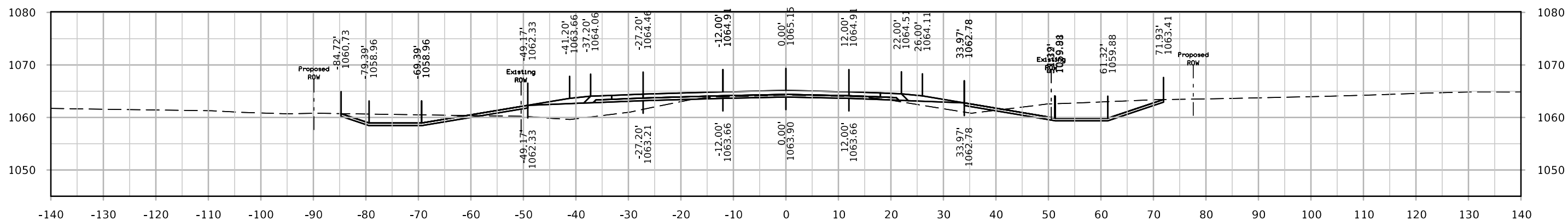
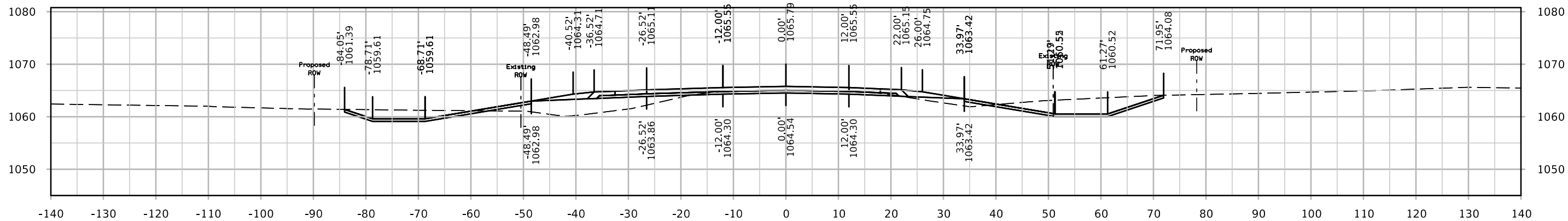


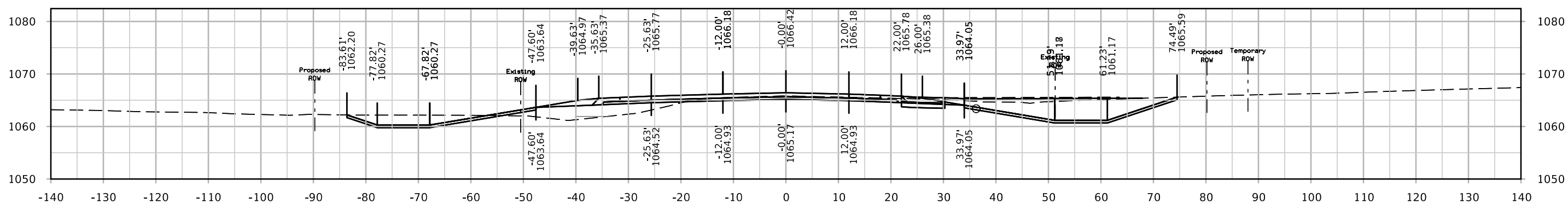
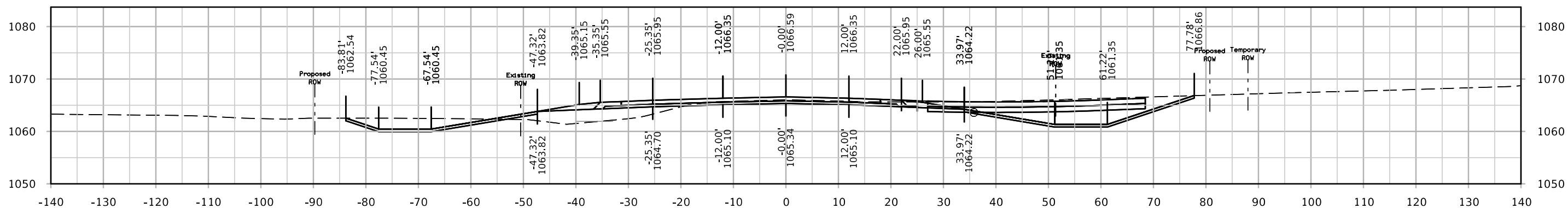
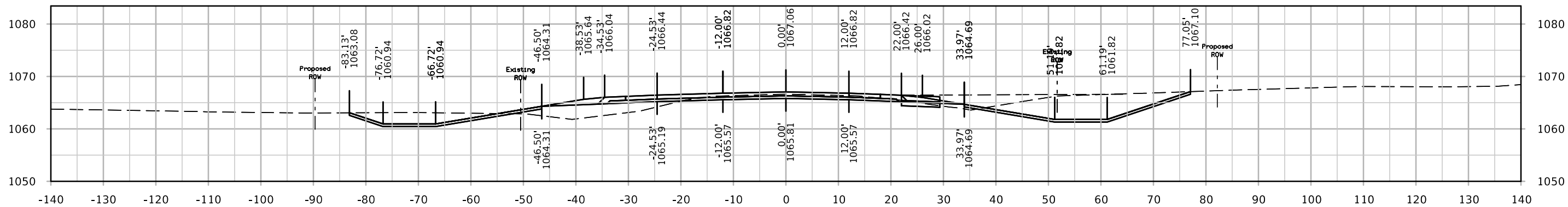


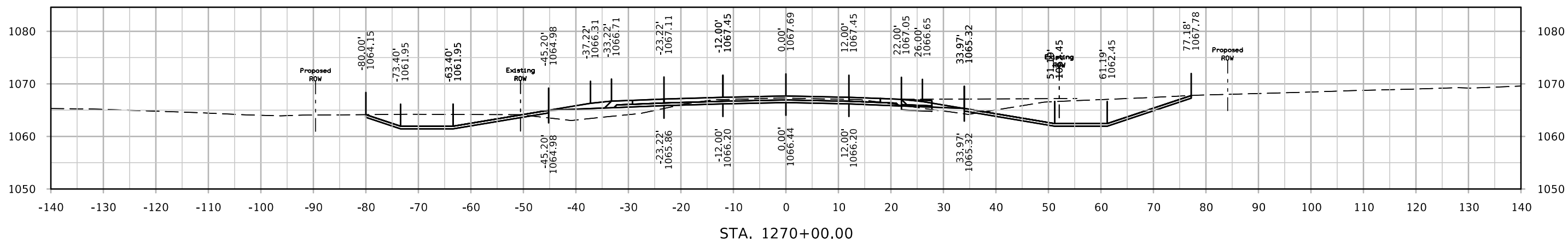
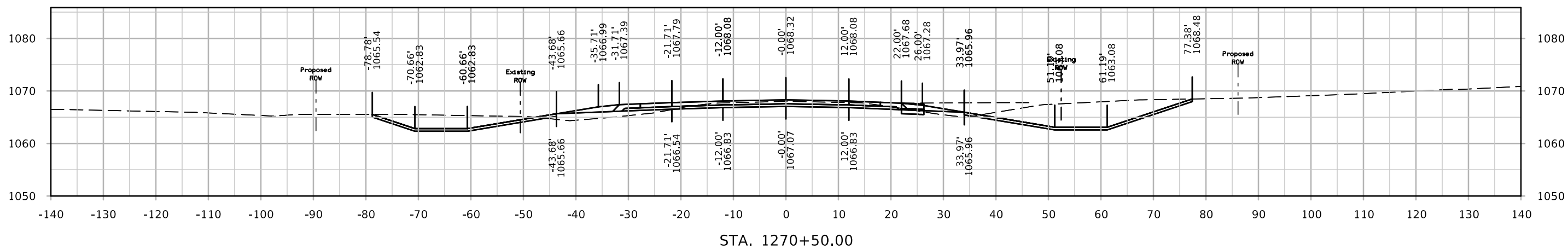
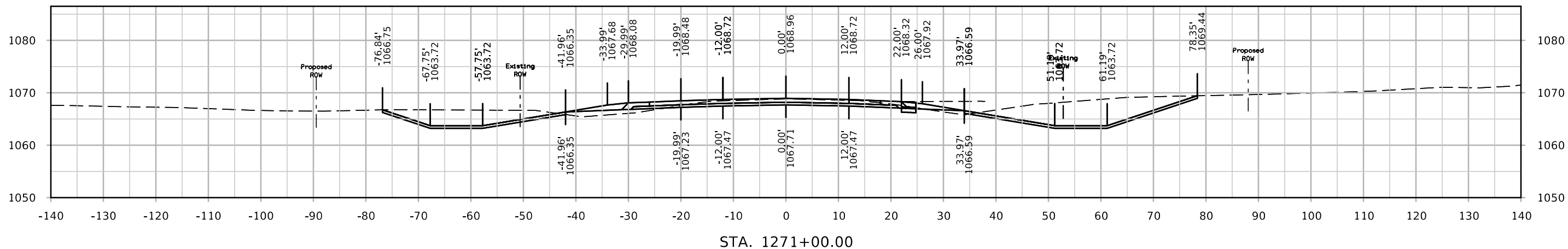


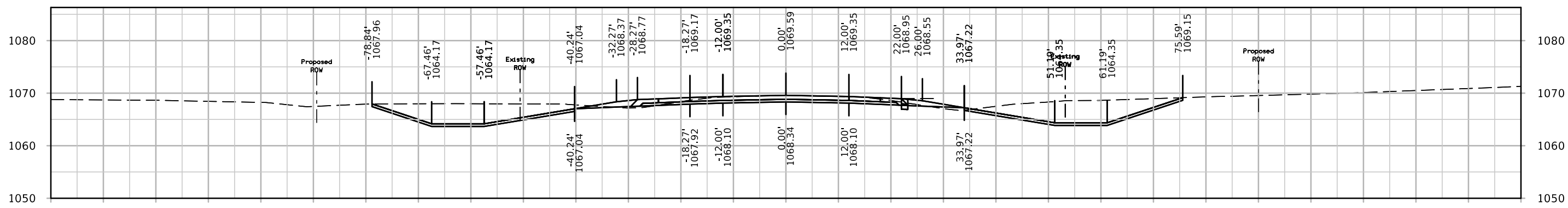
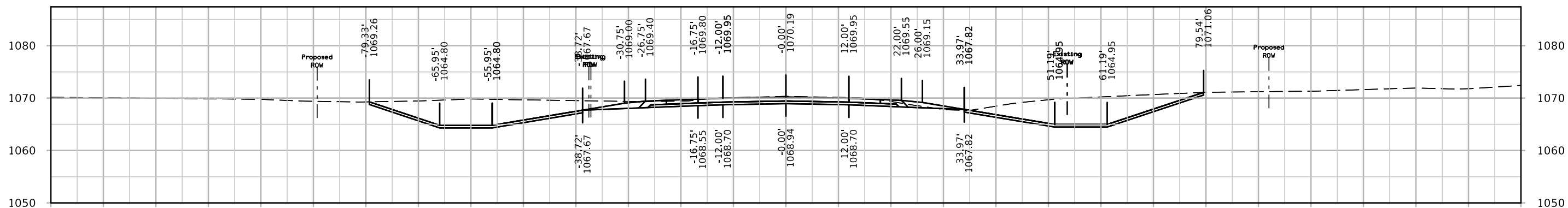
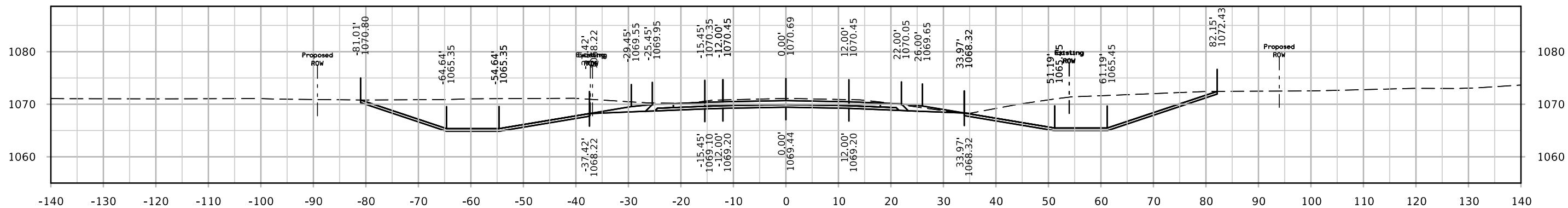


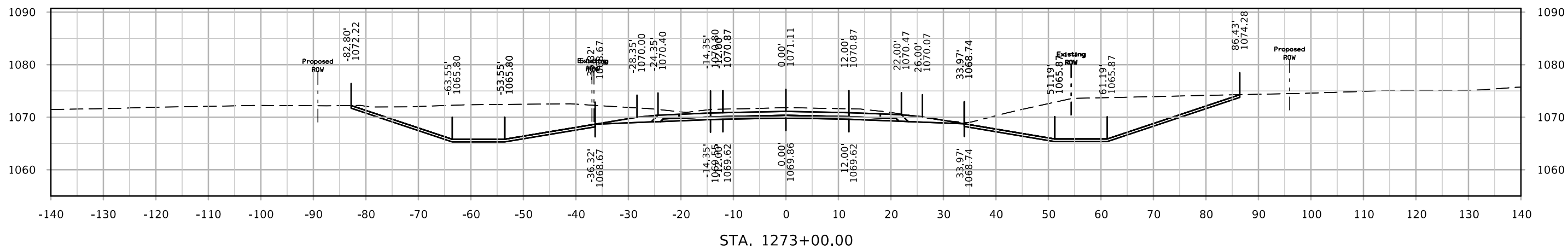
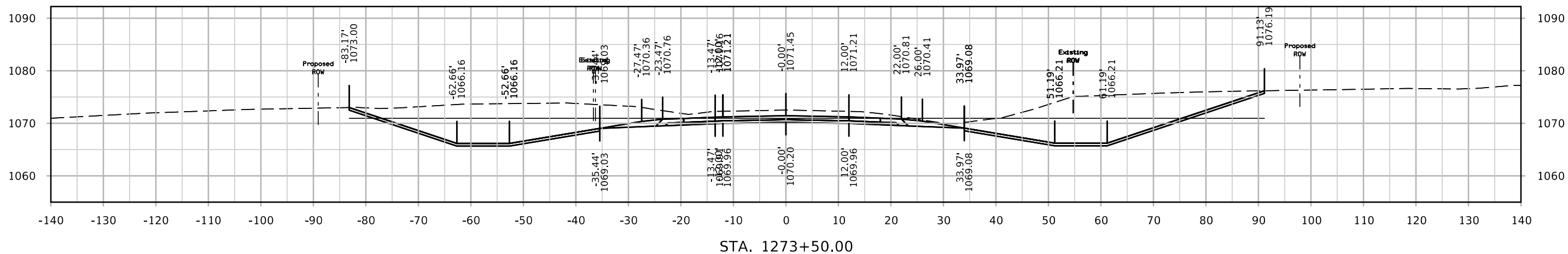
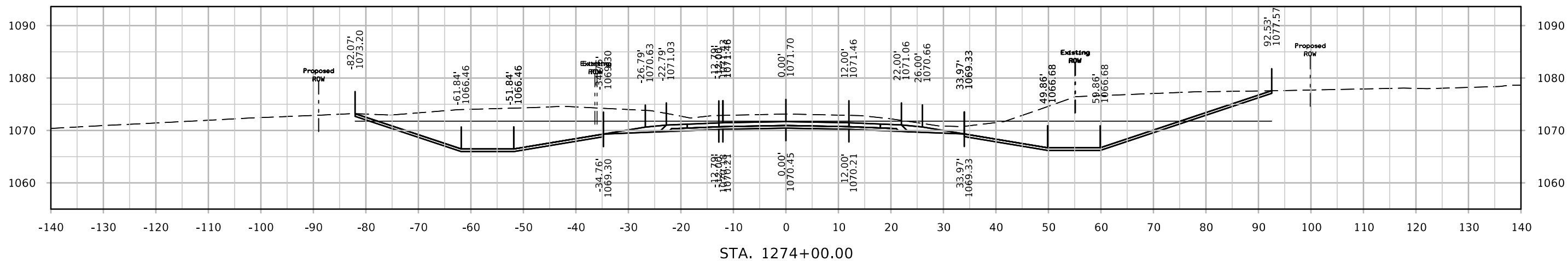


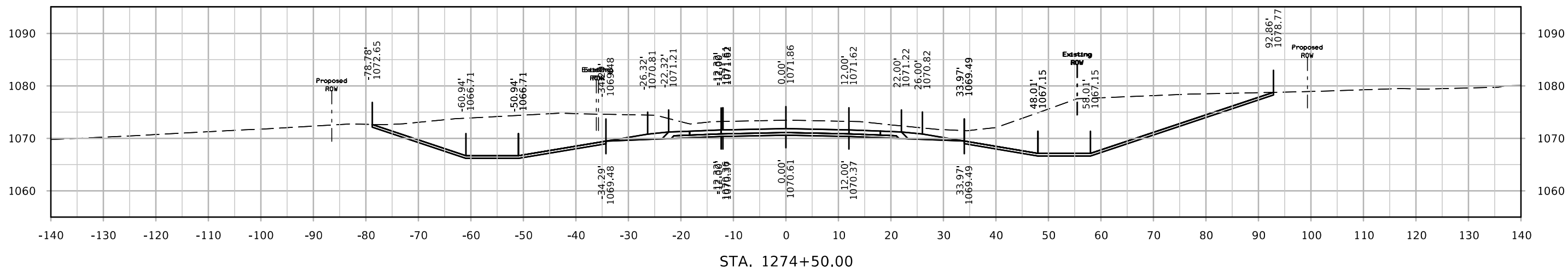
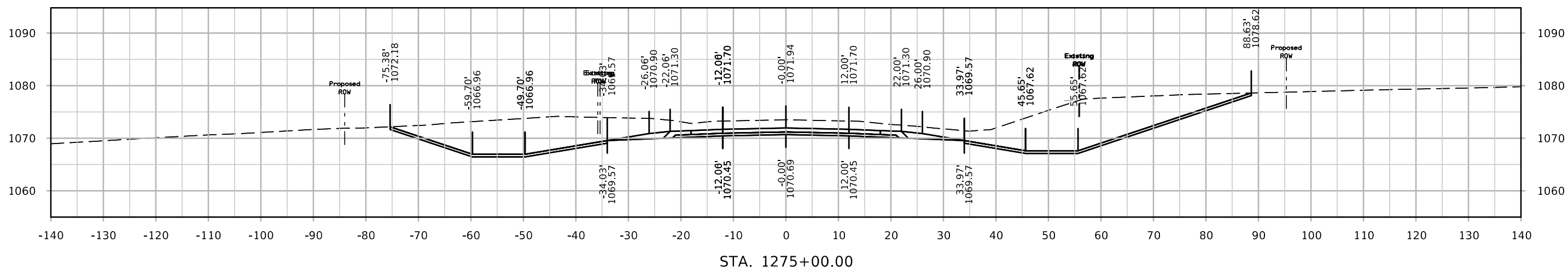
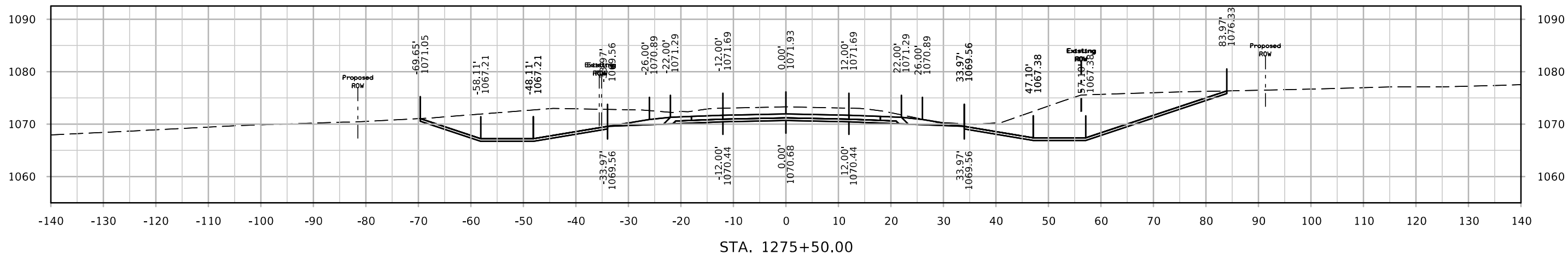


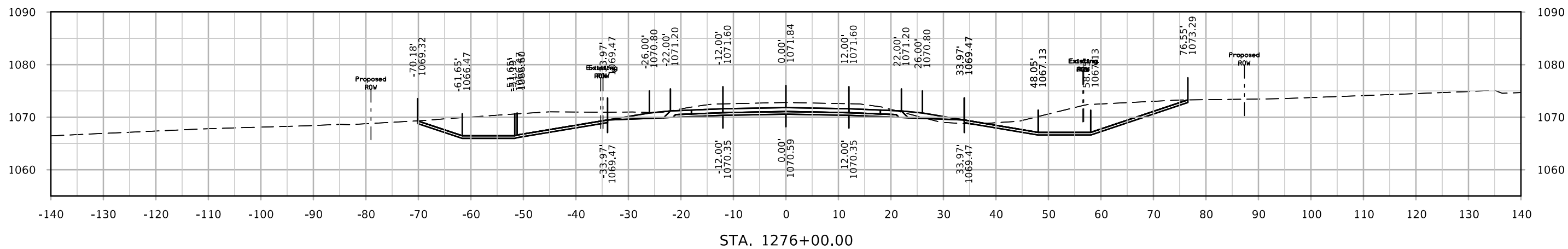
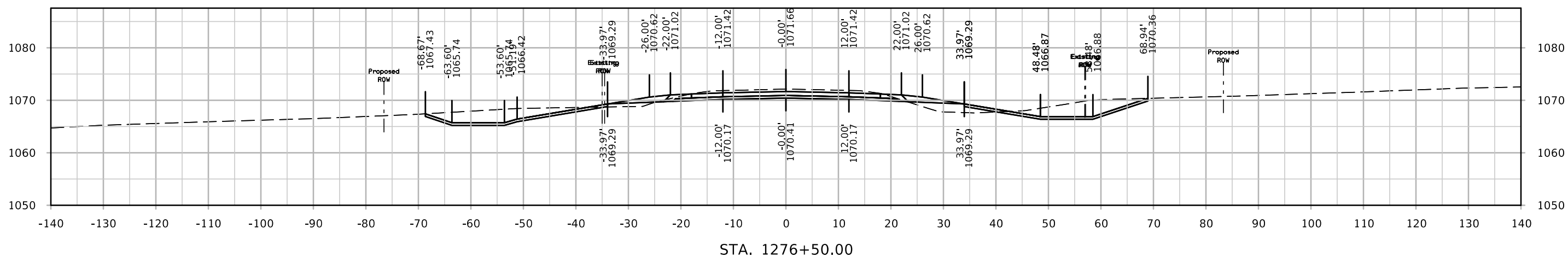
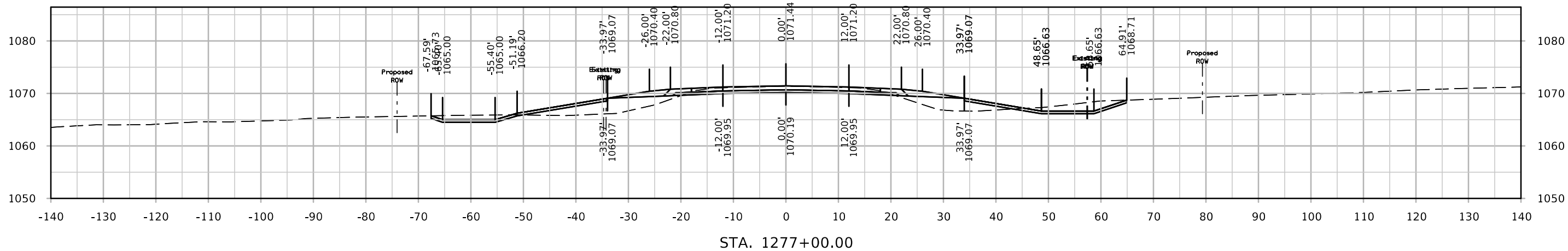


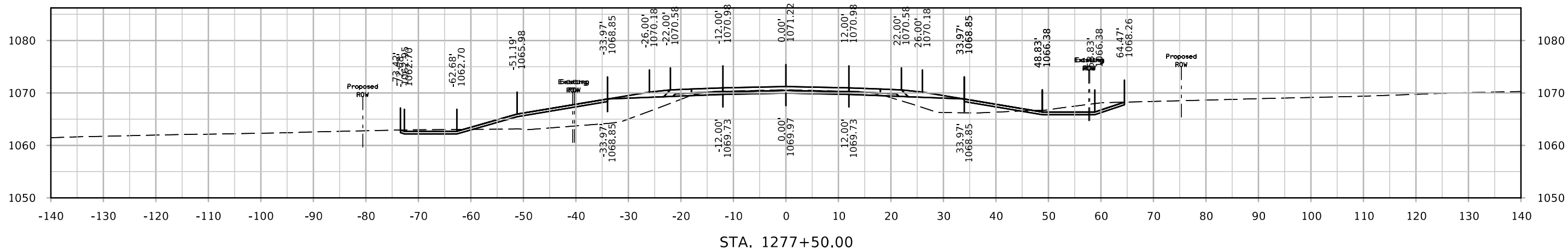
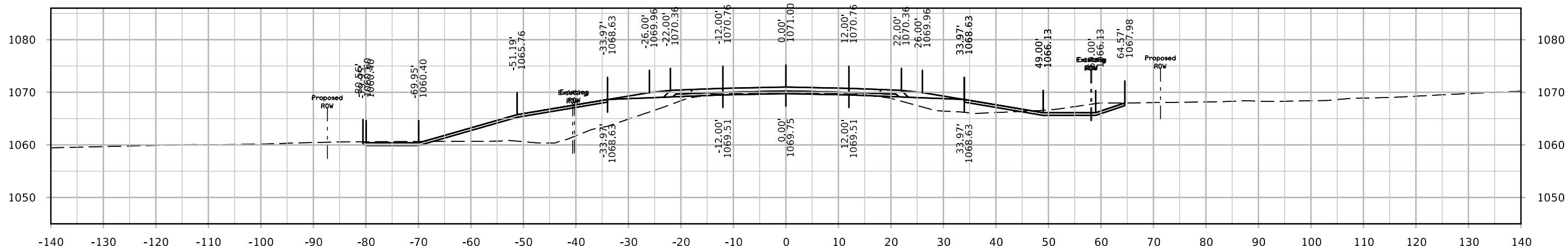
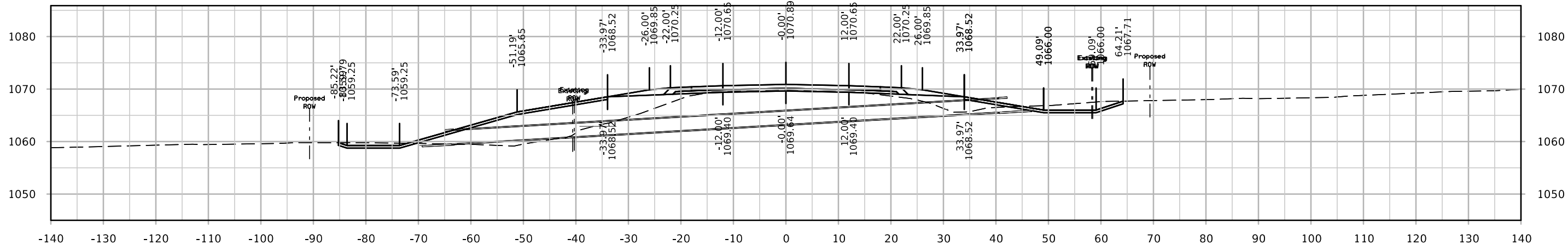


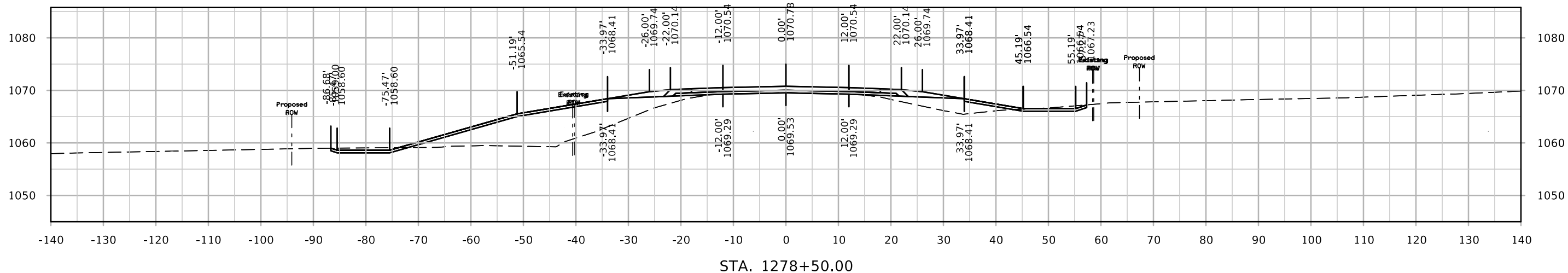
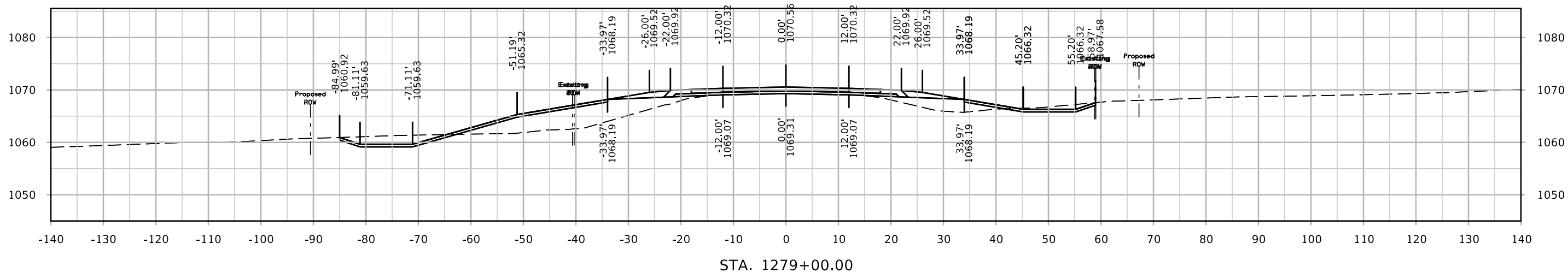
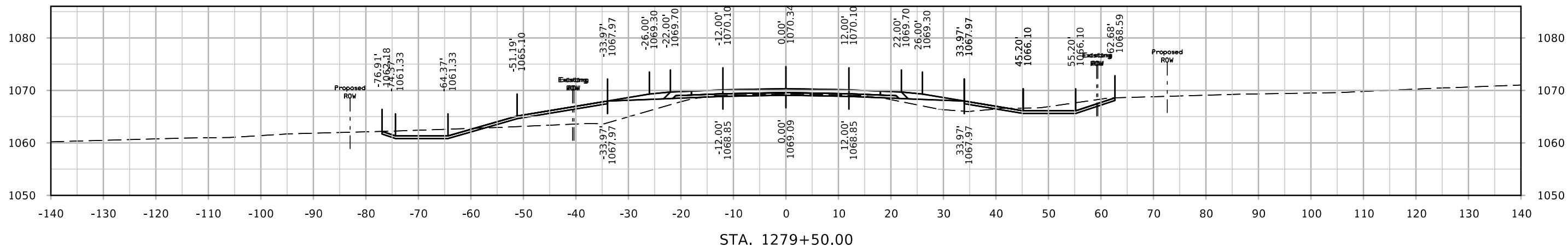


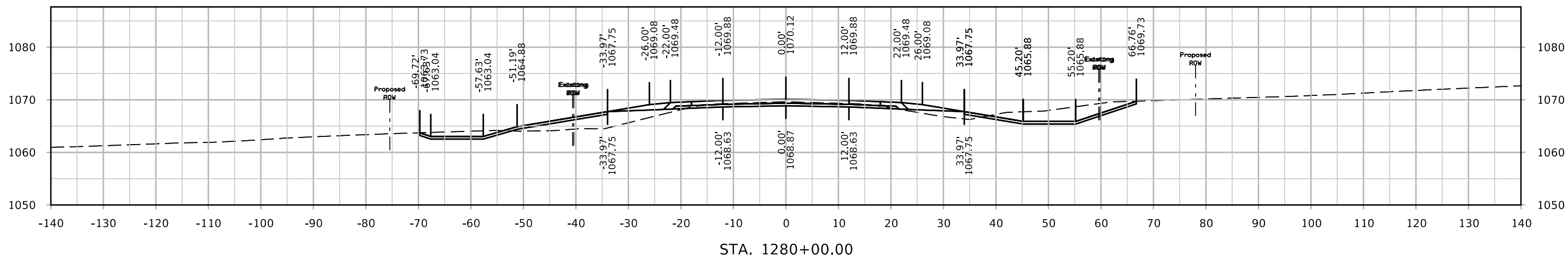
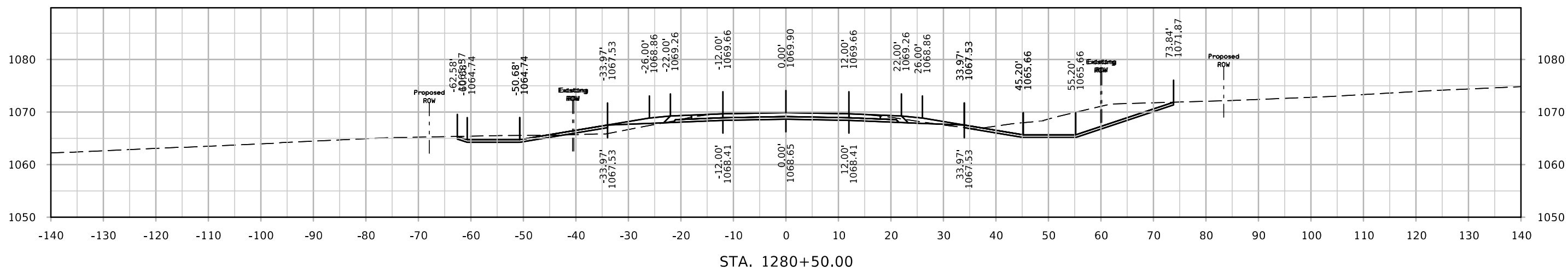
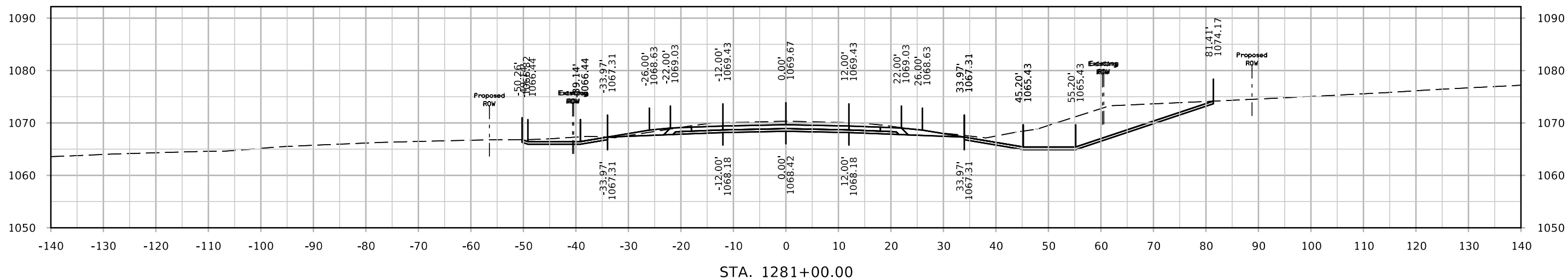




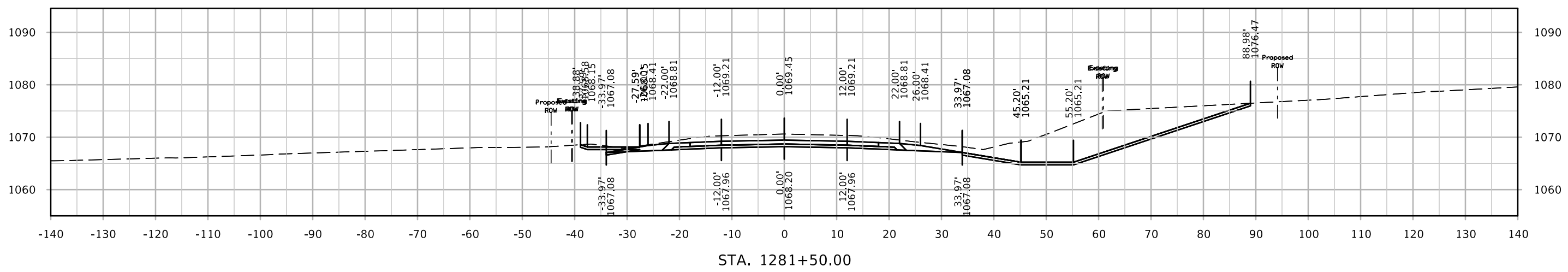
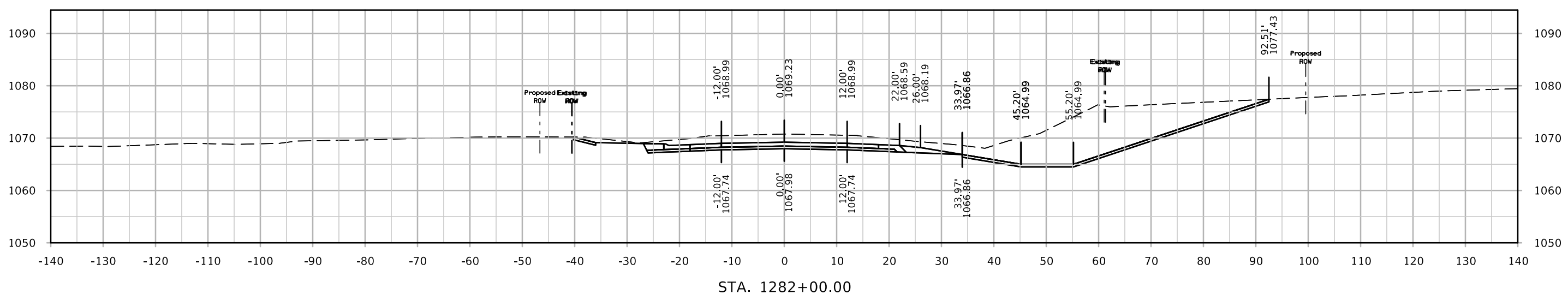
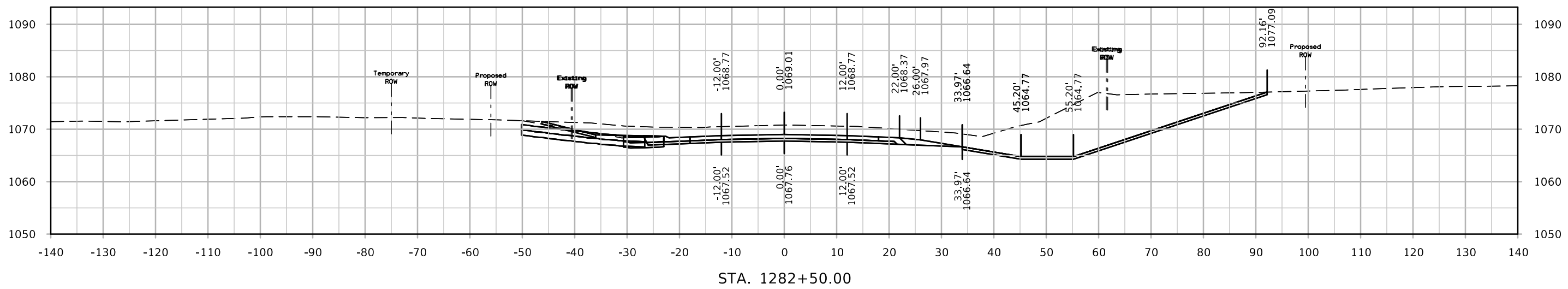




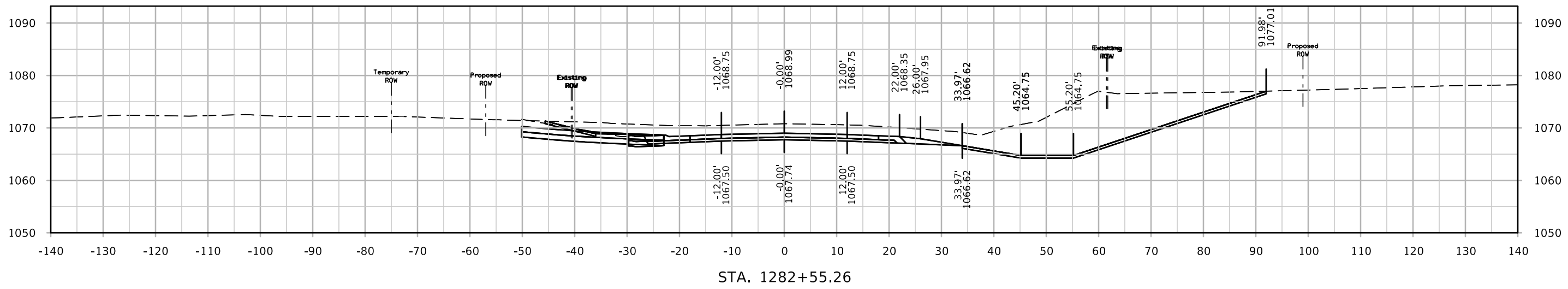
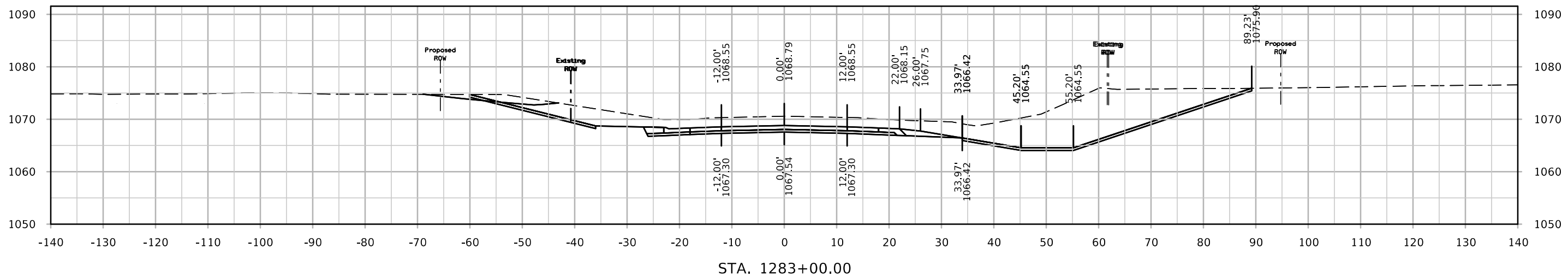
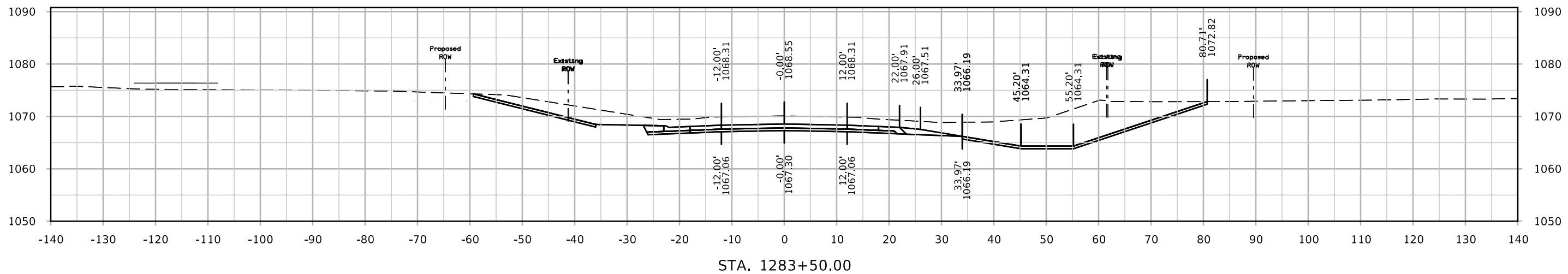


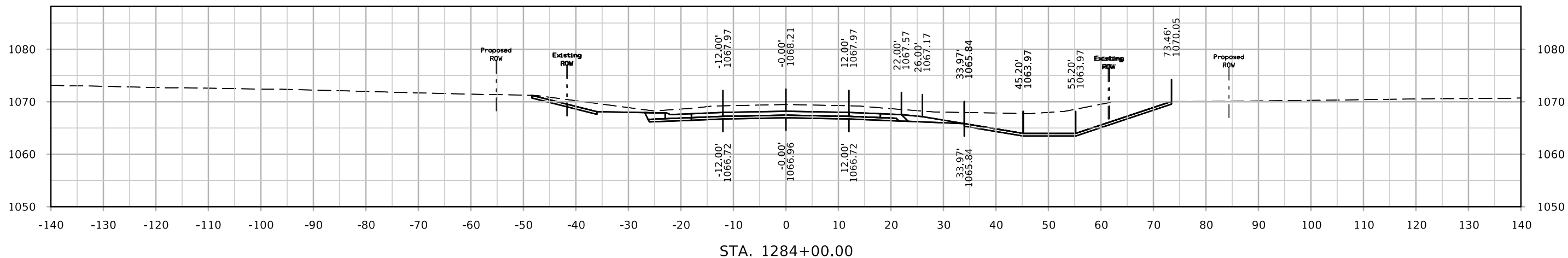
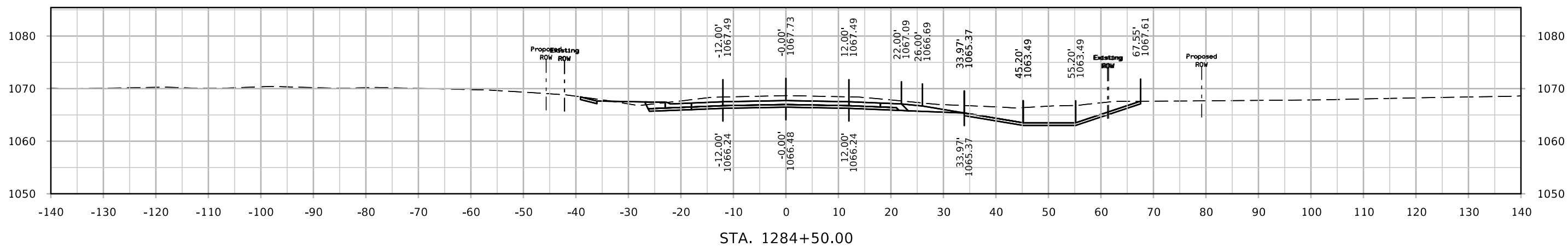
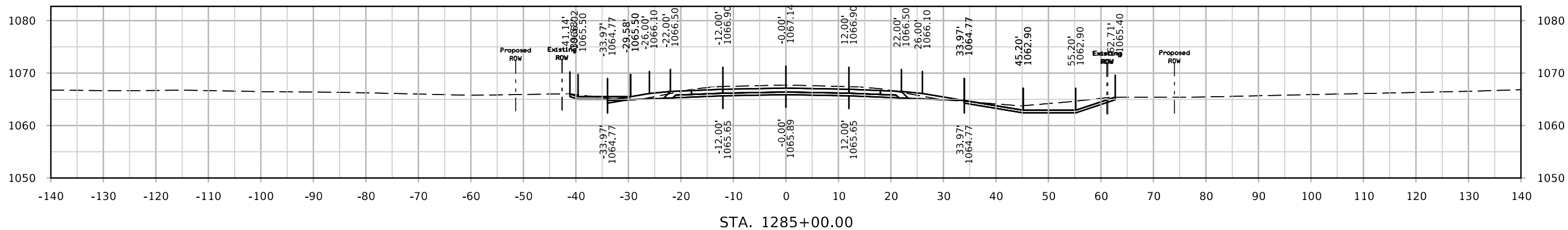


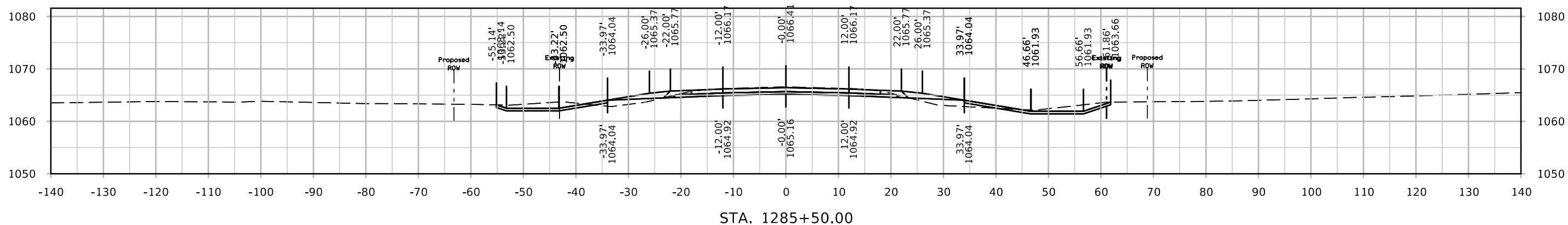
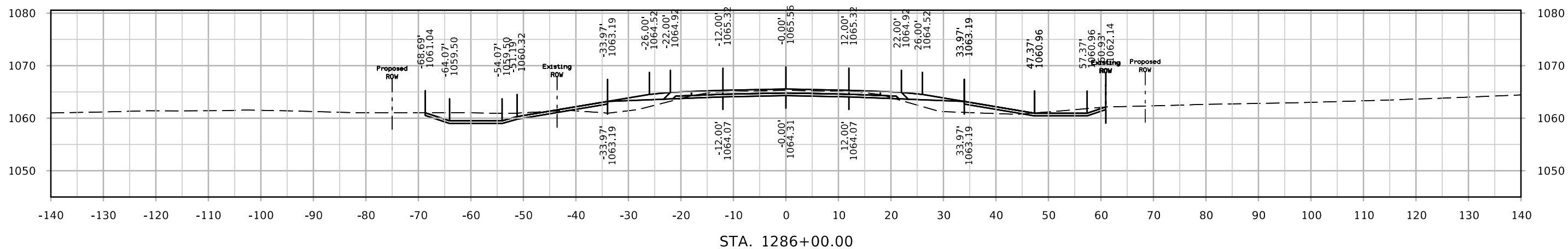
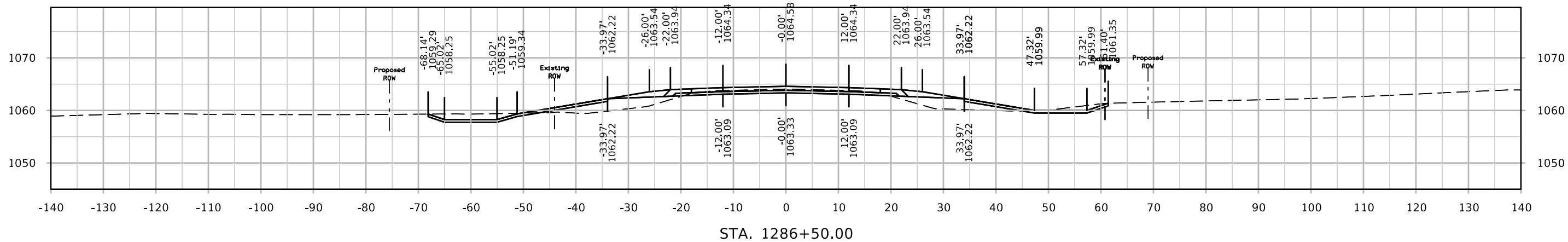
IA 13

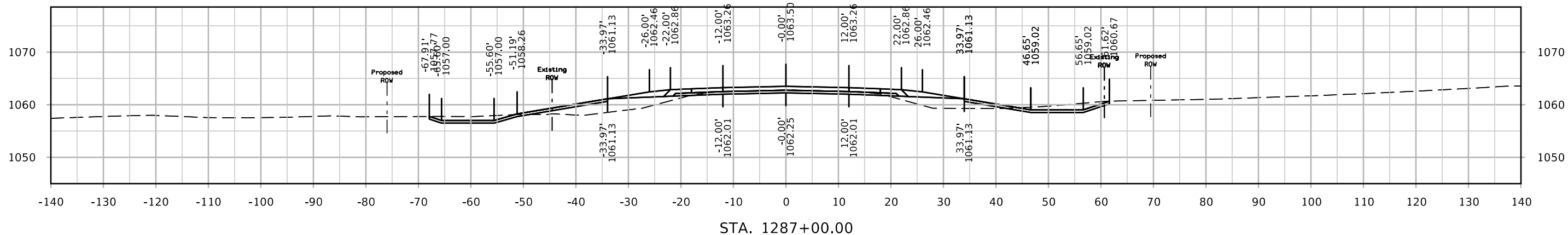
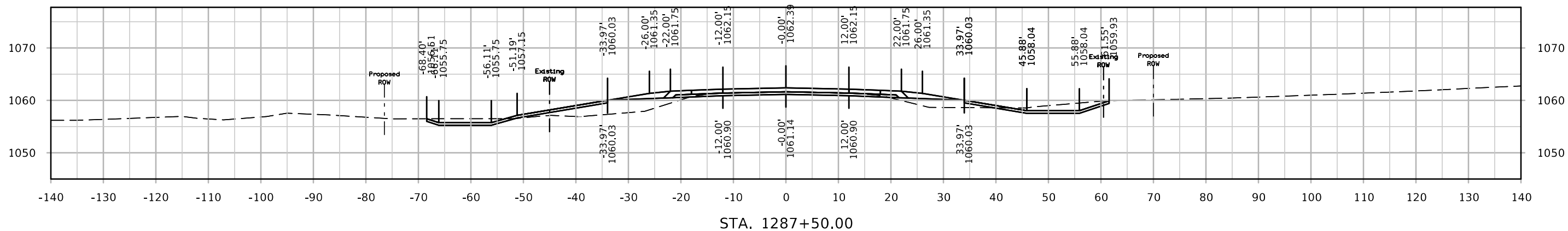
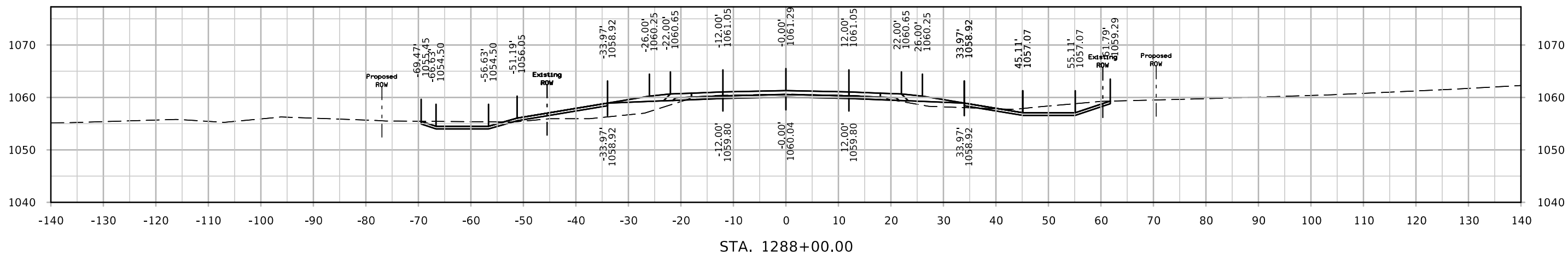


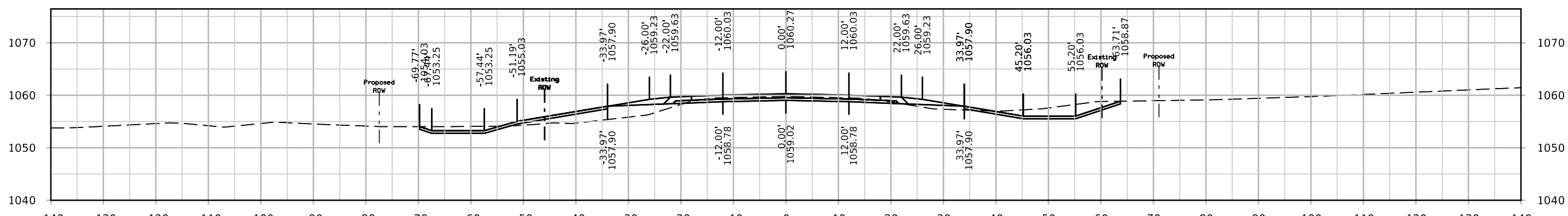
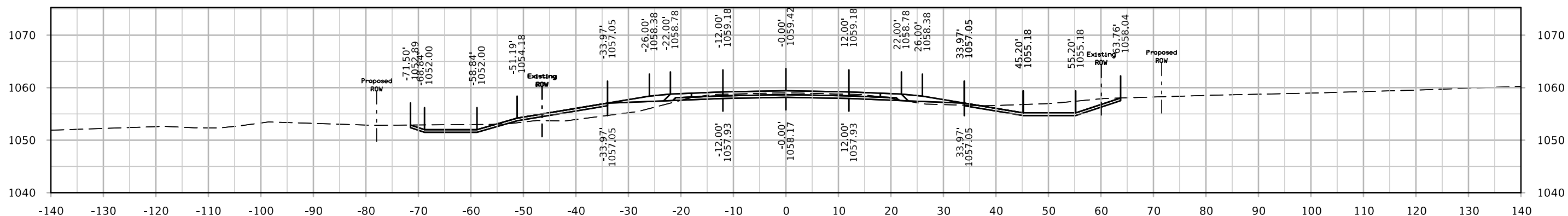
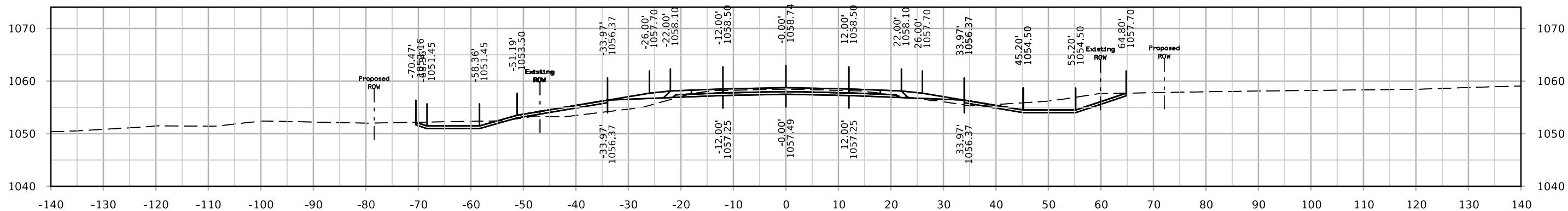
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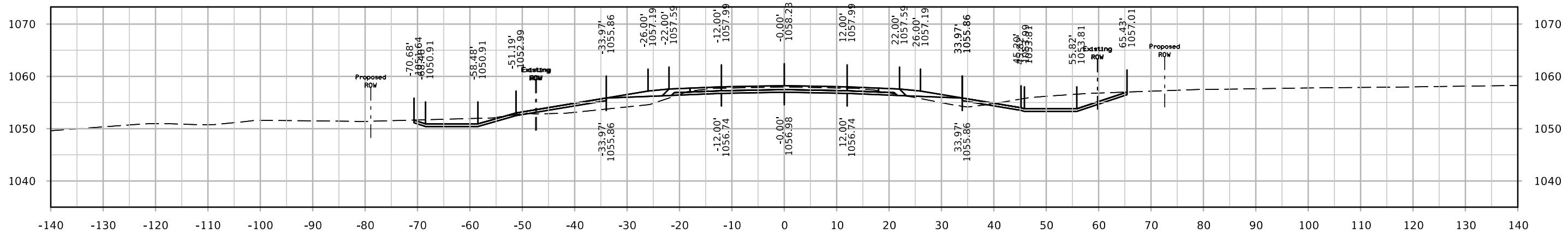
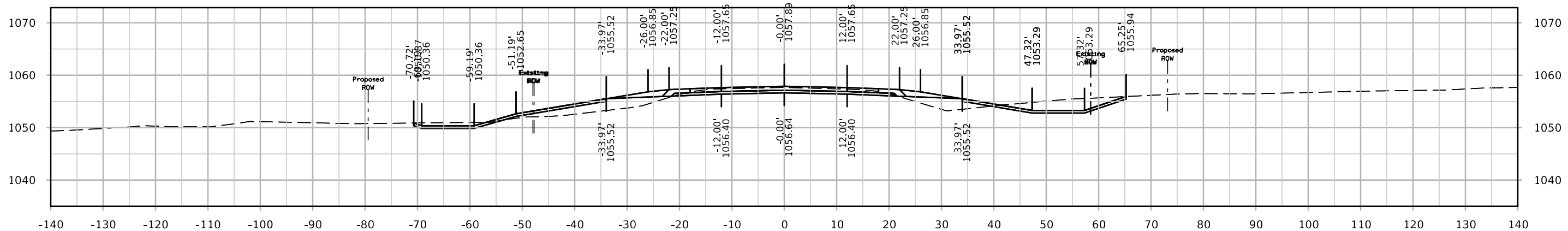
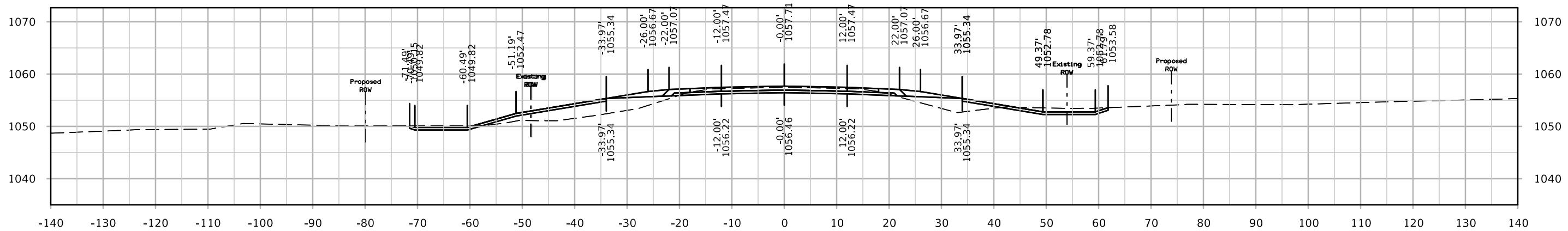


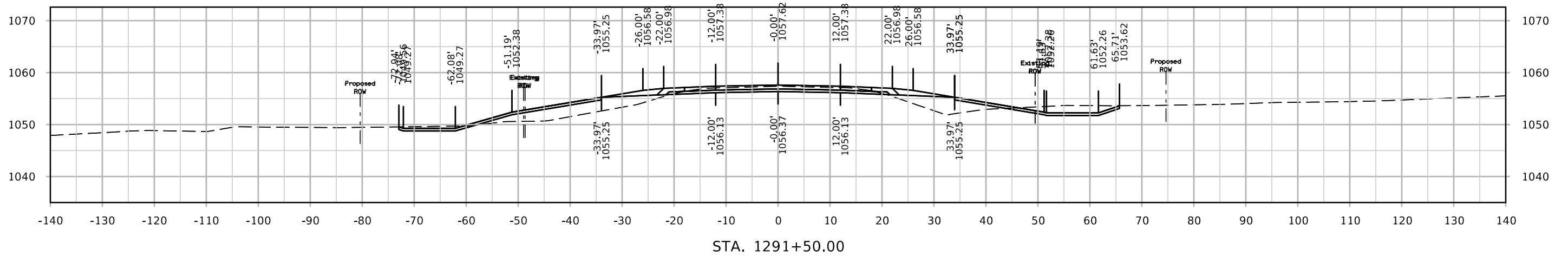
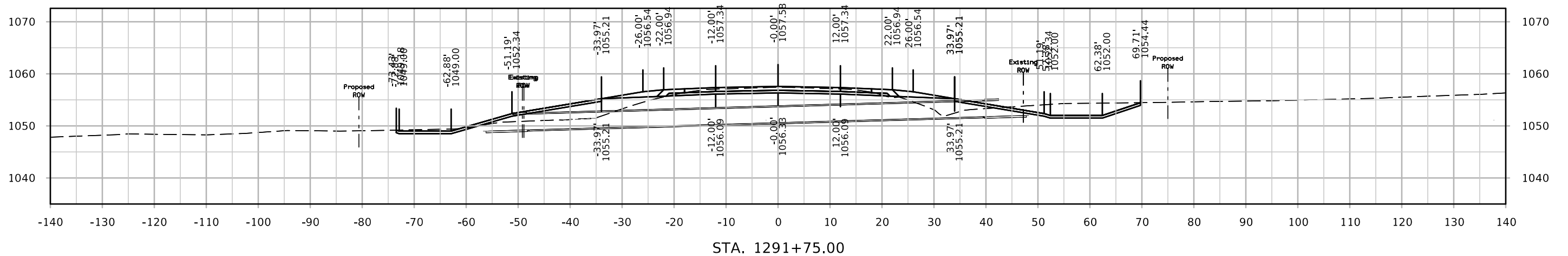
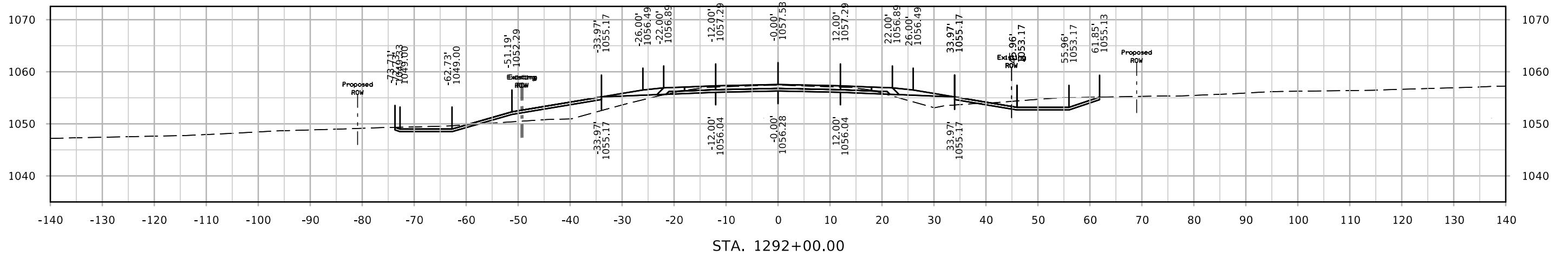


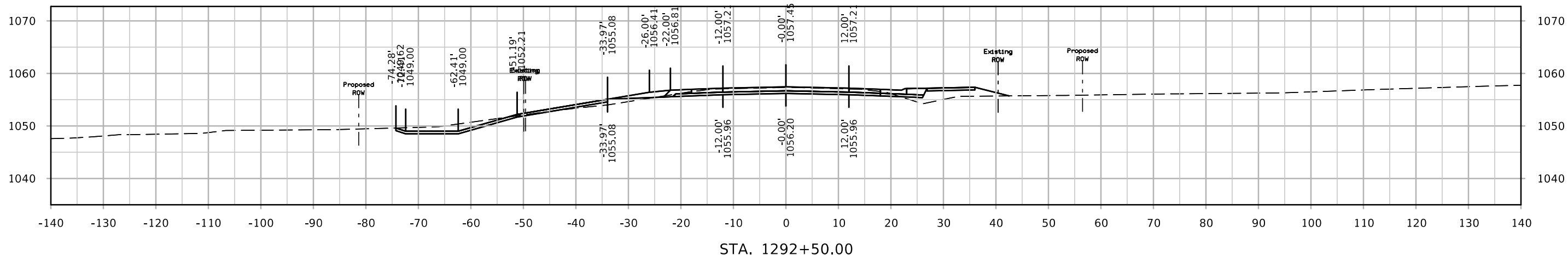
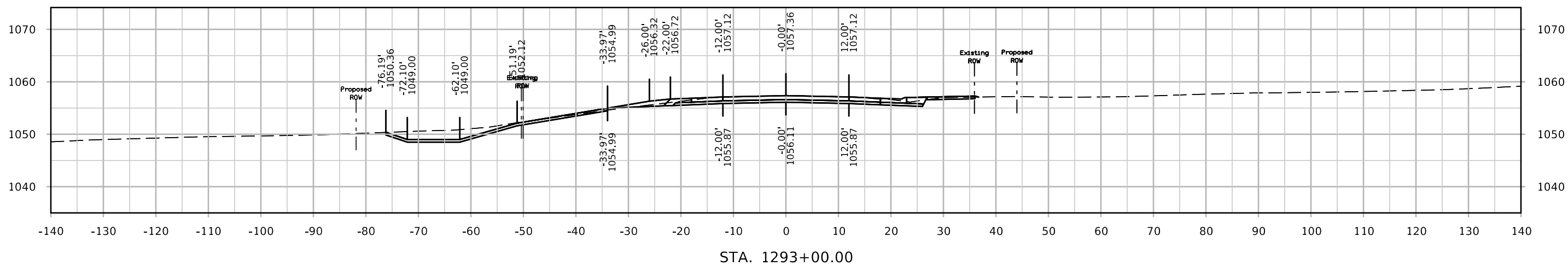
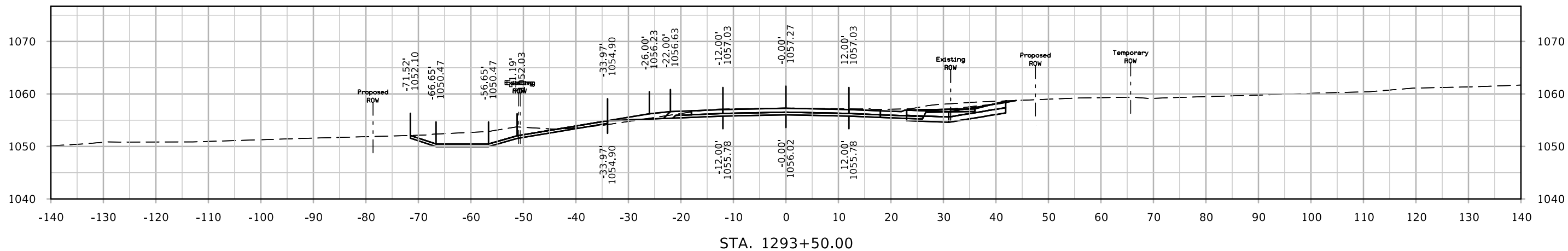


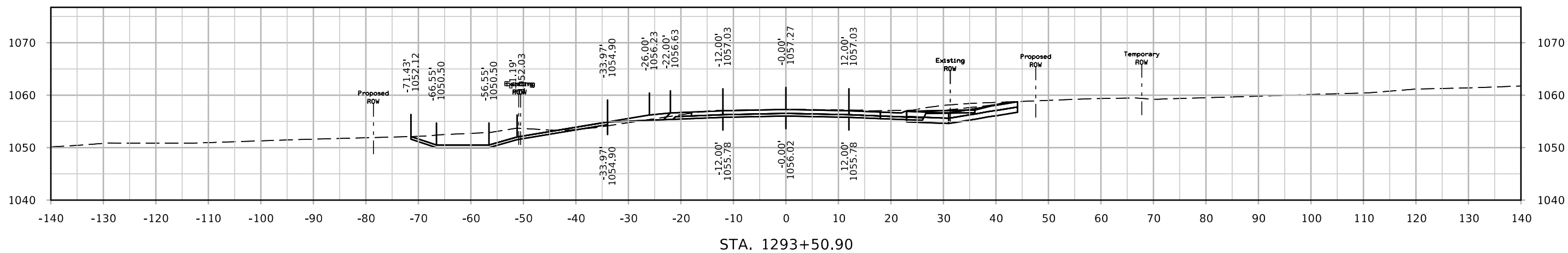
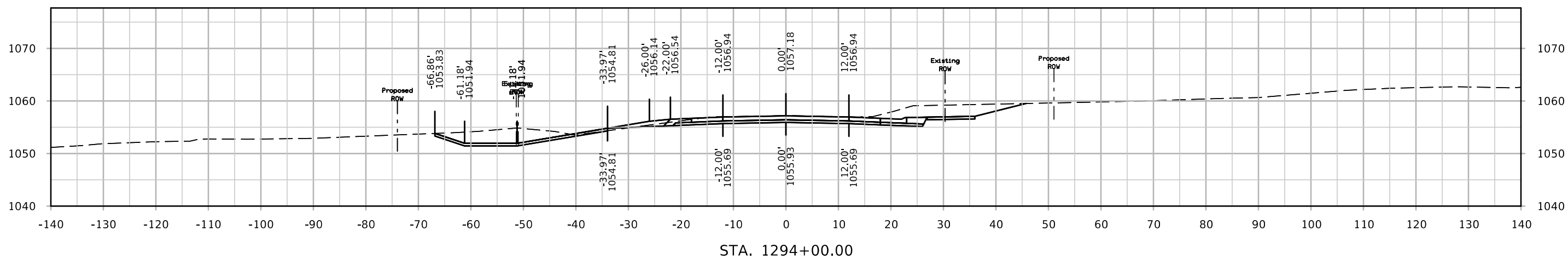
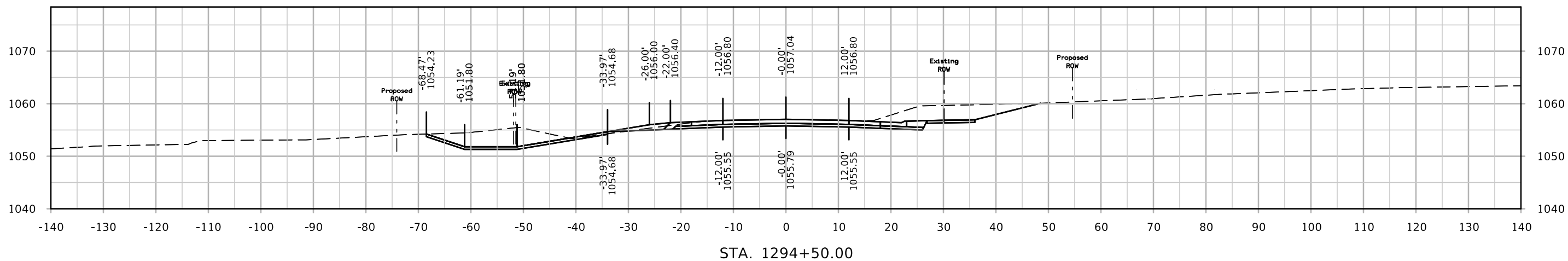


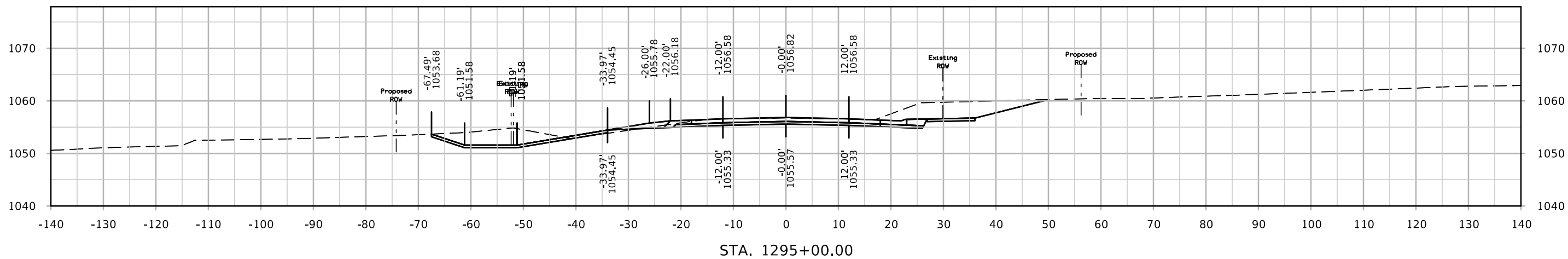
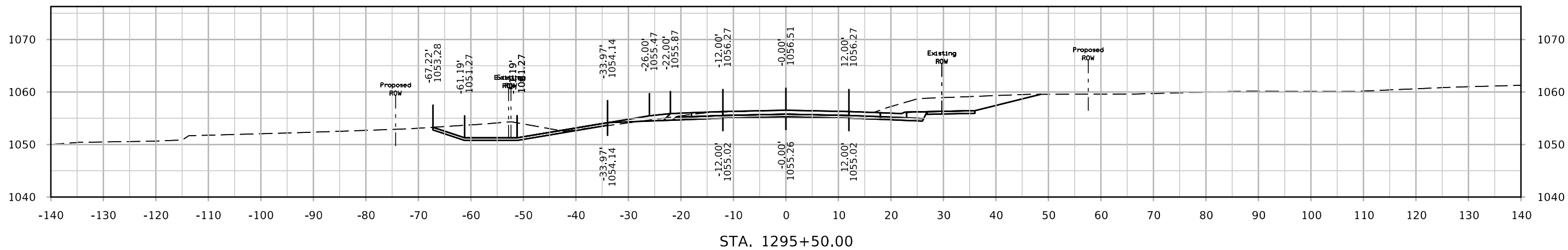
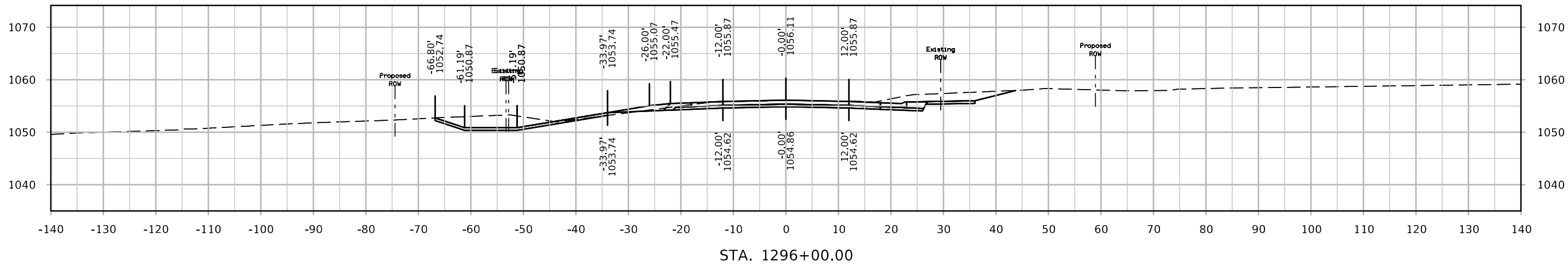


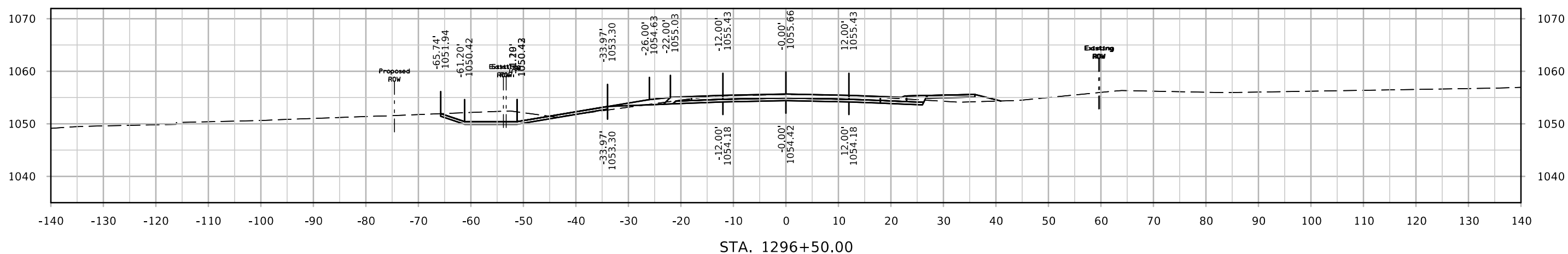
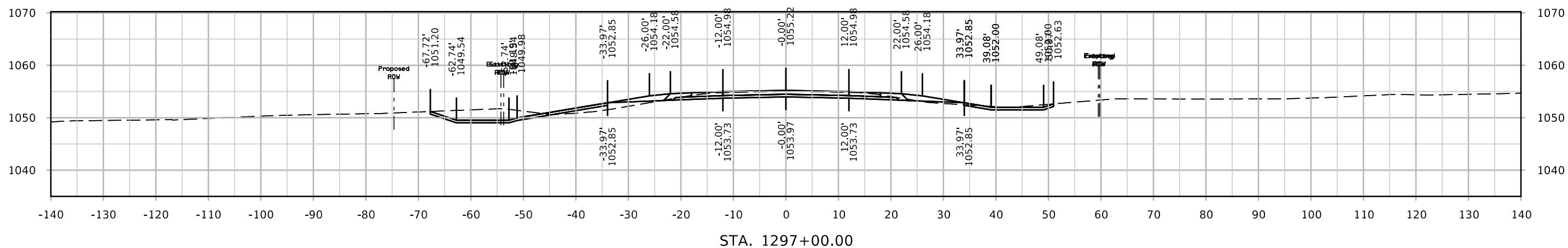
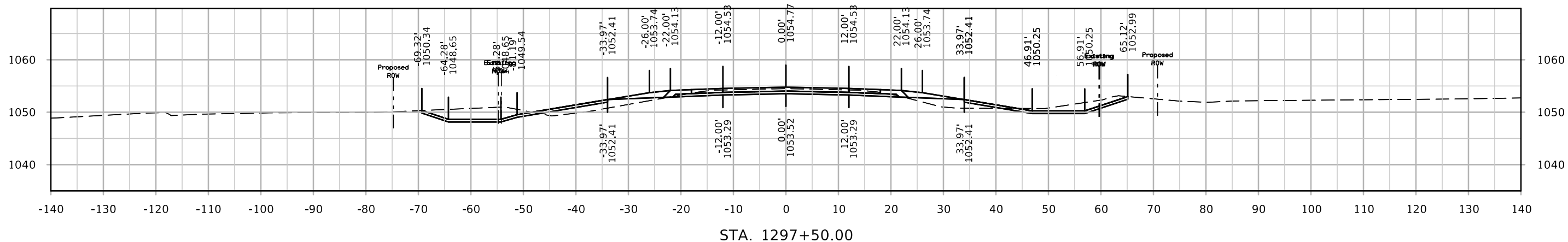


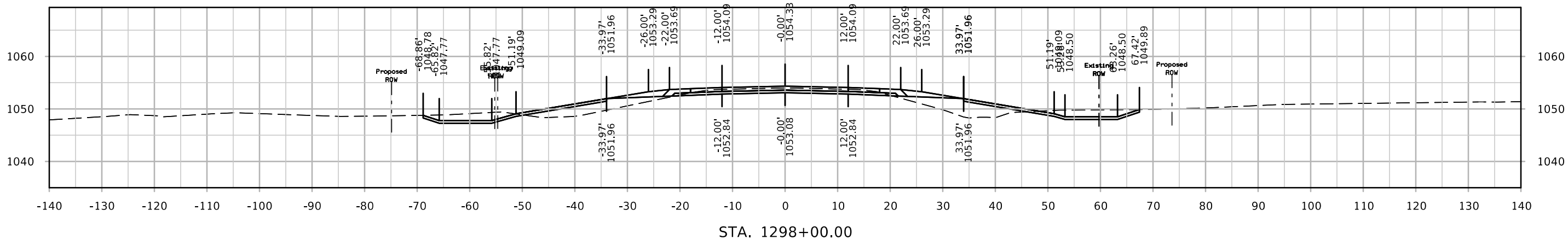
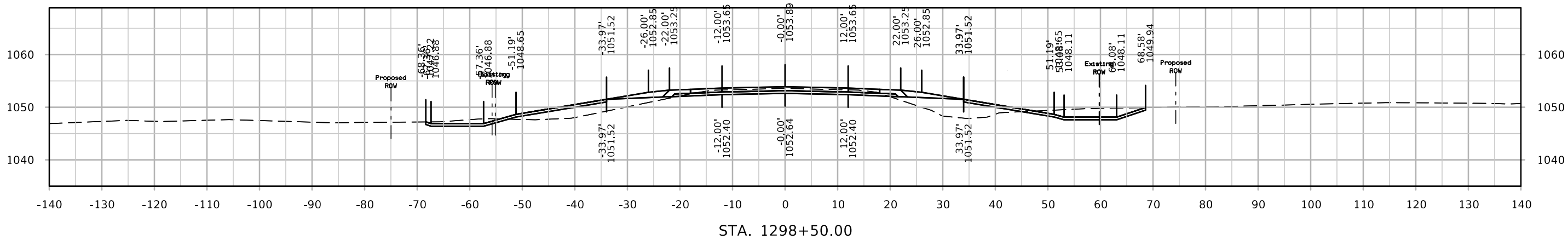
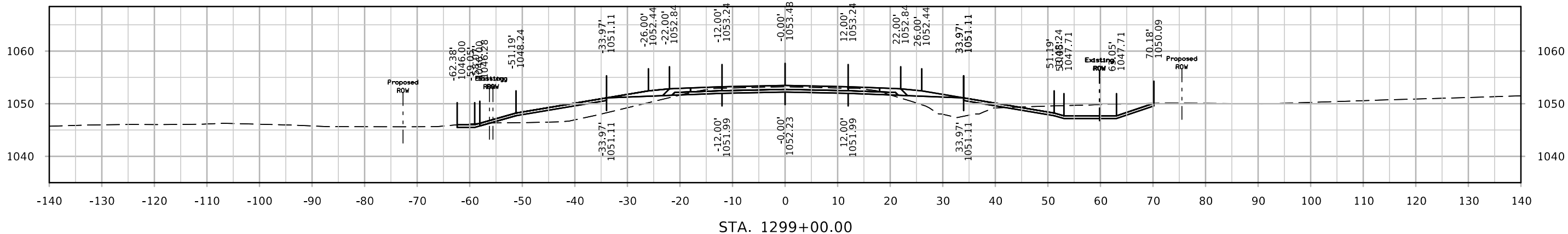


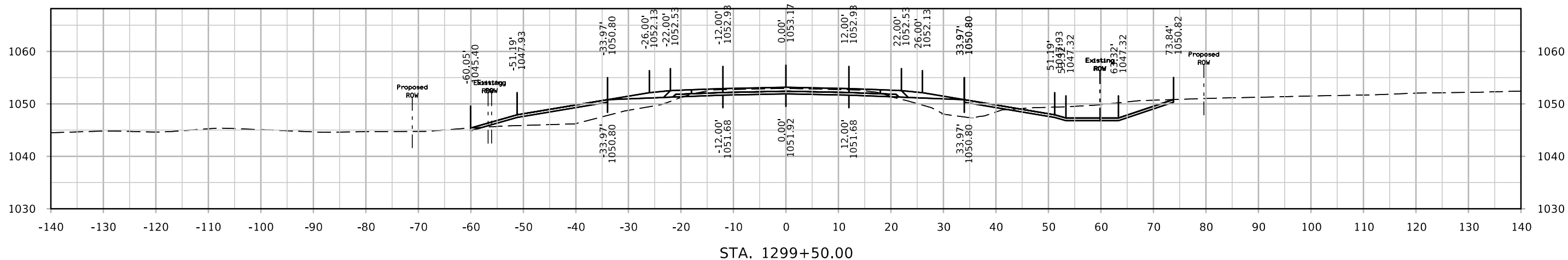
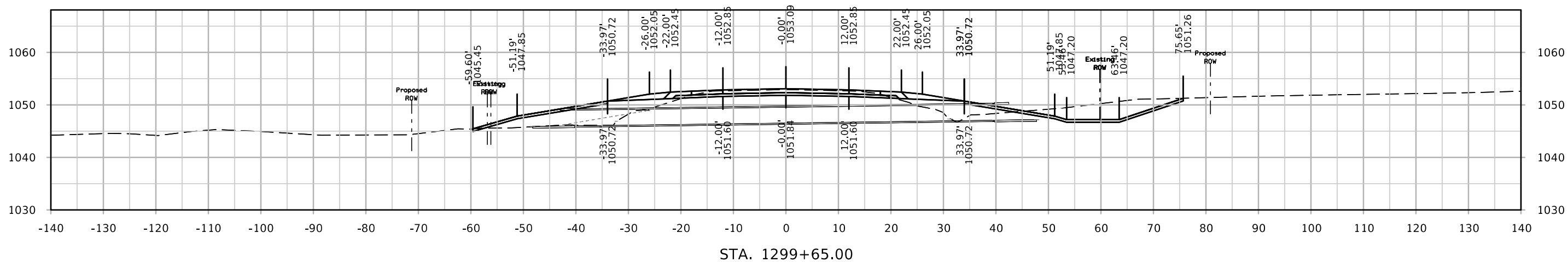
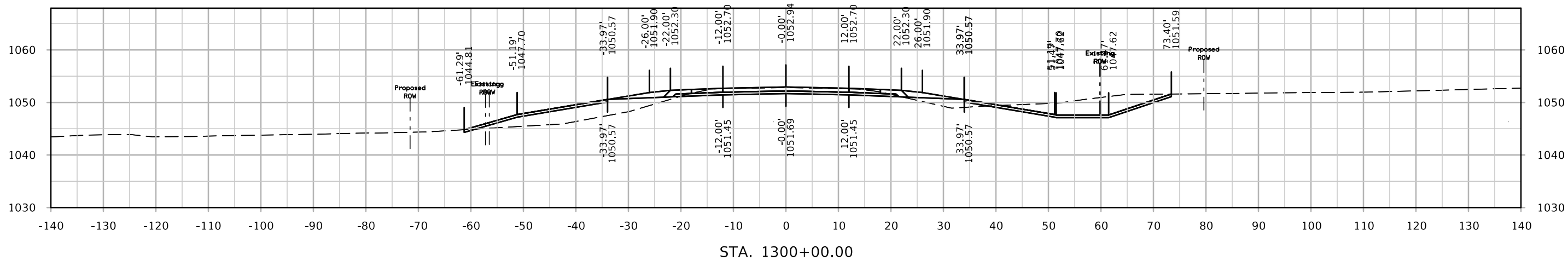


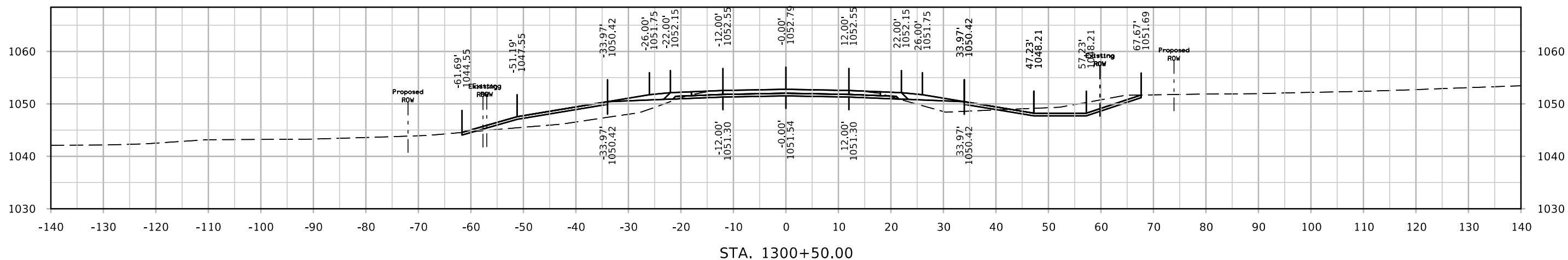
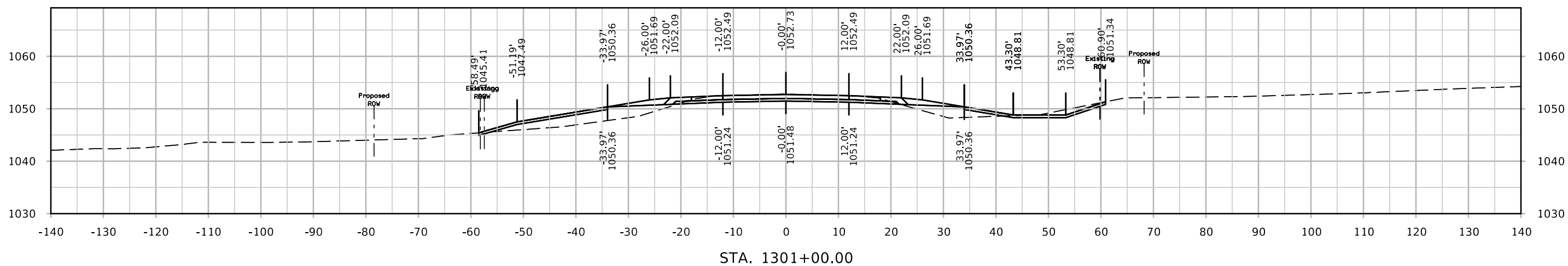
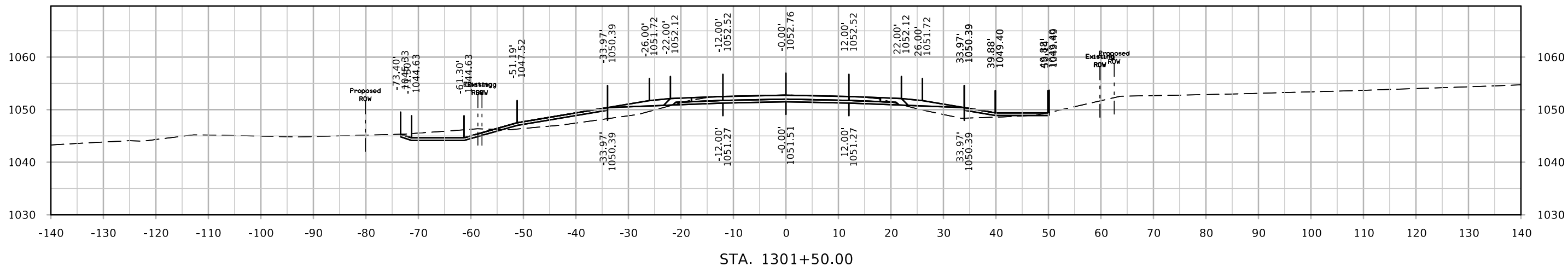


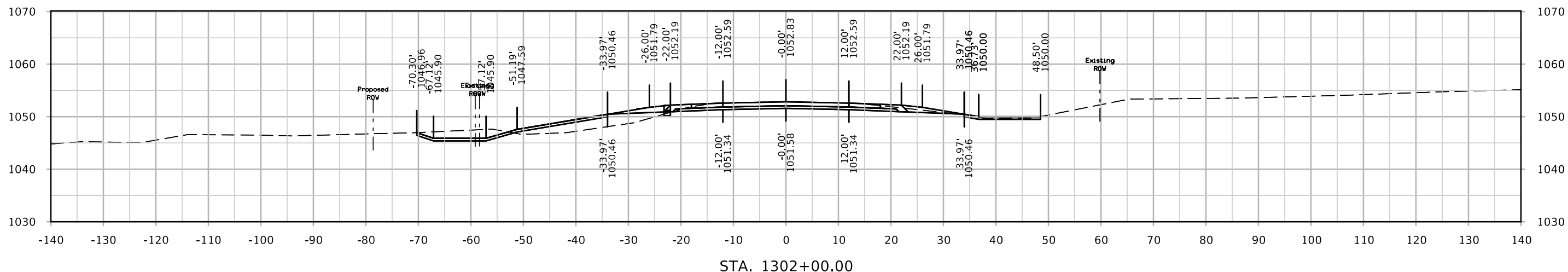
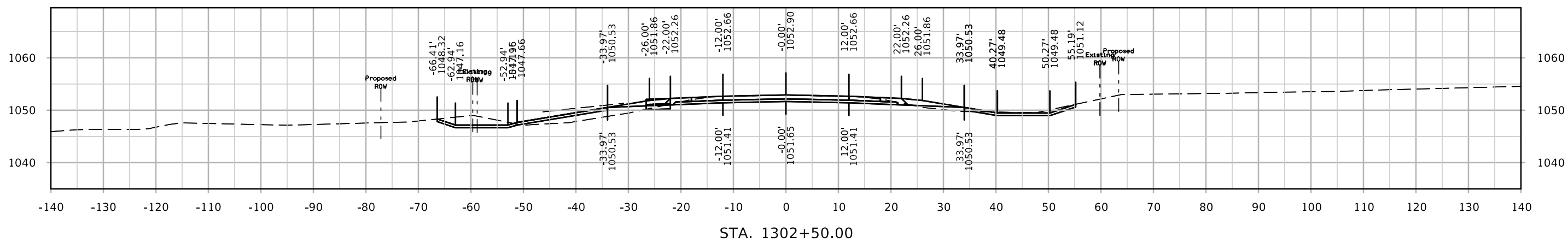
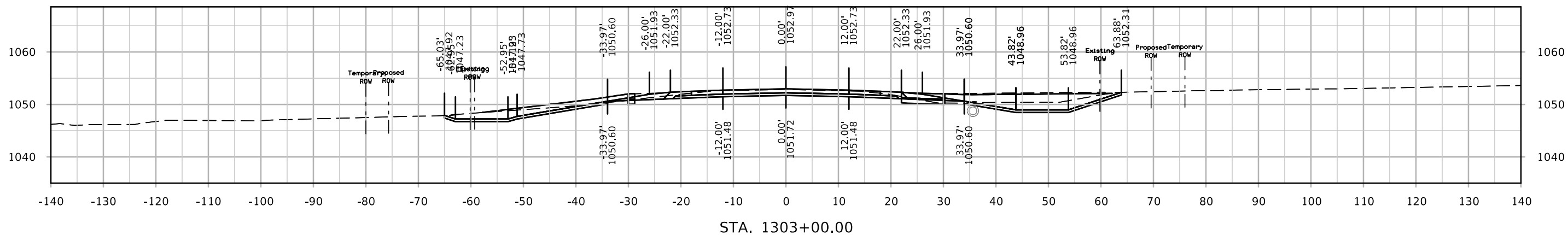


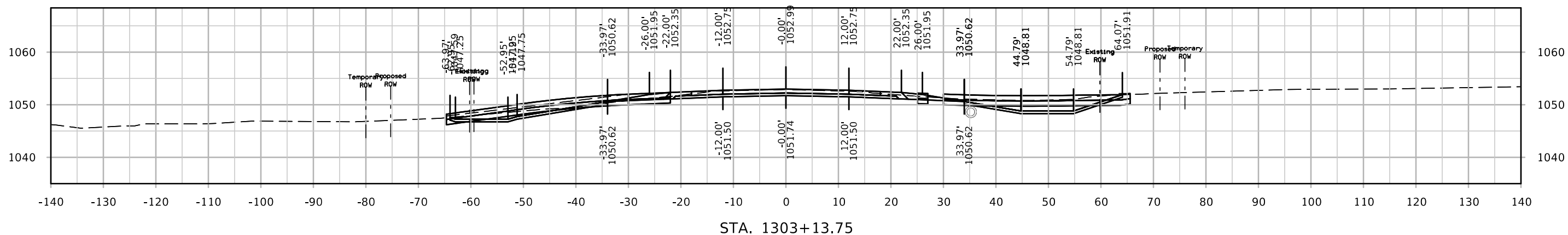
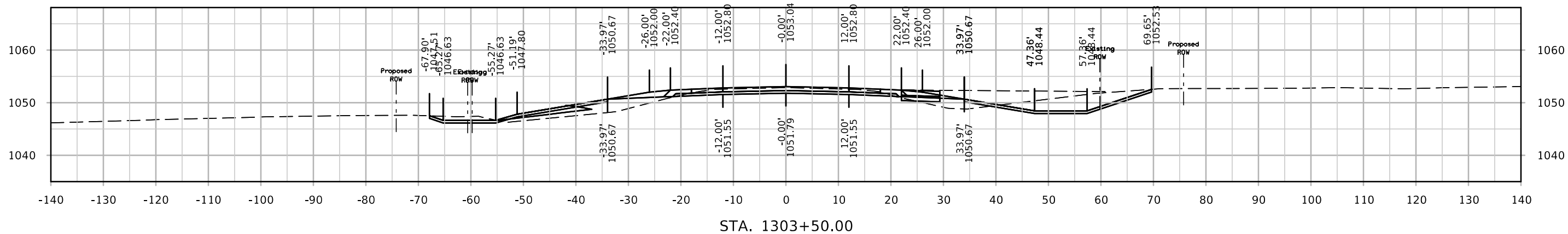
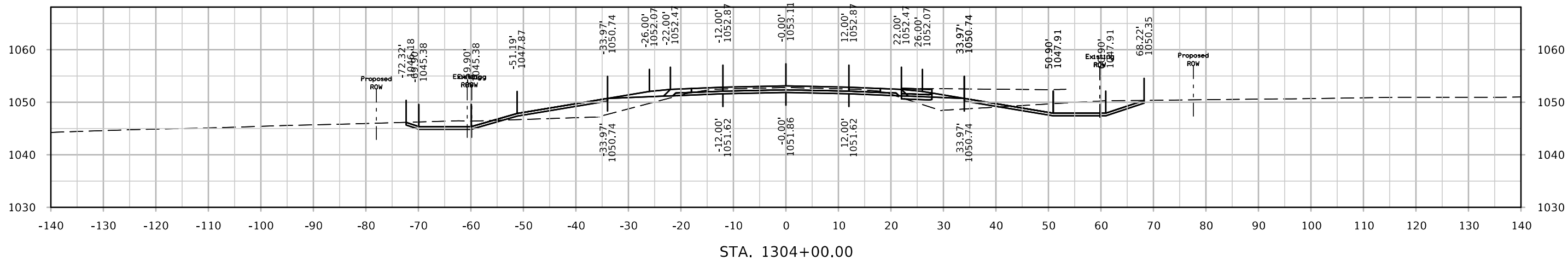


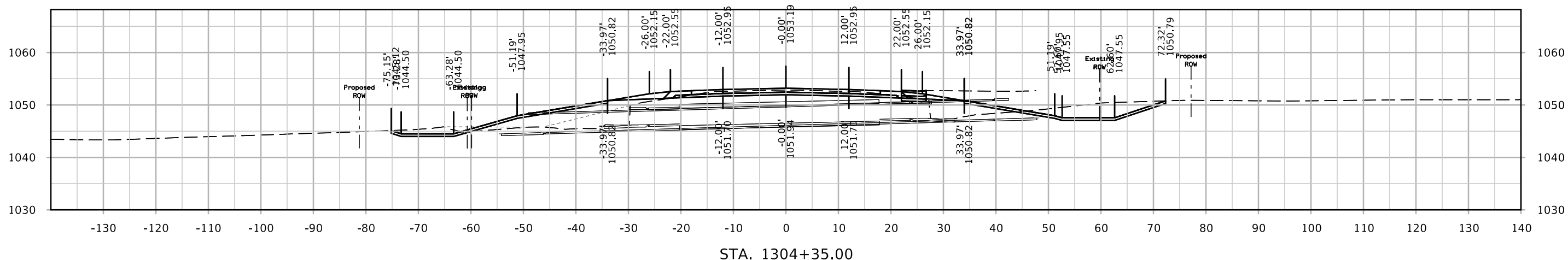
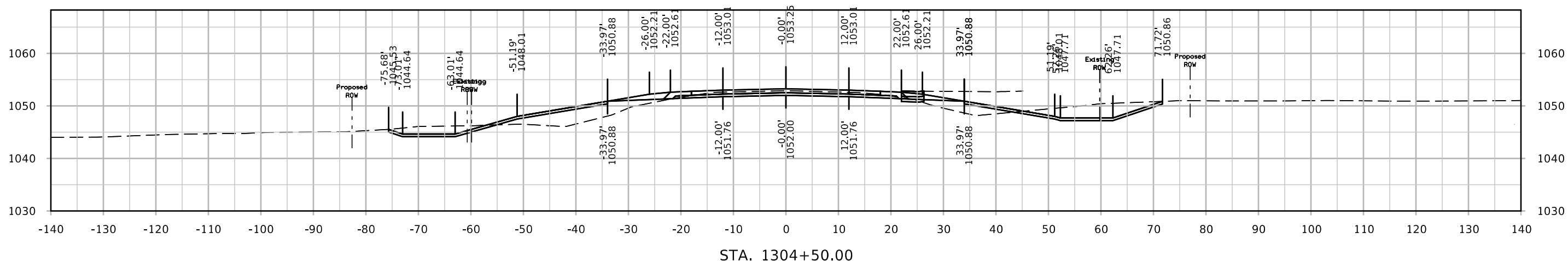
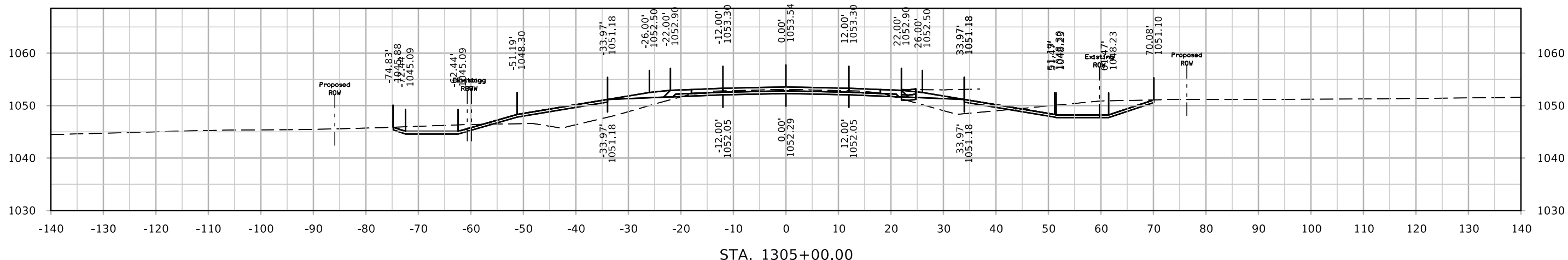


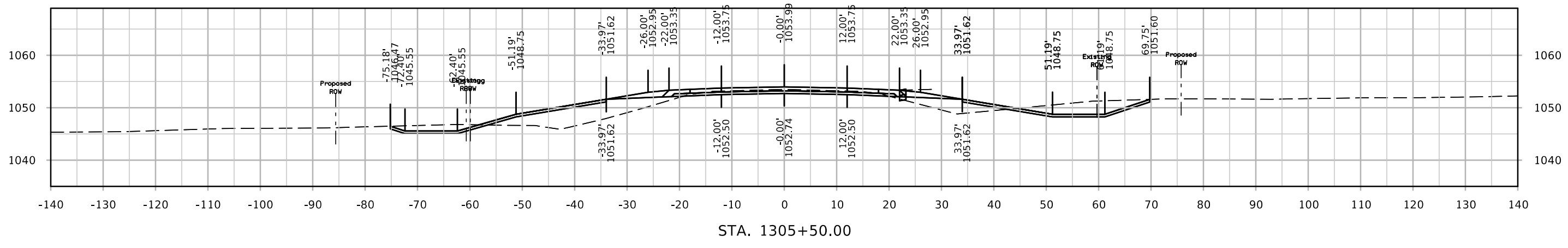
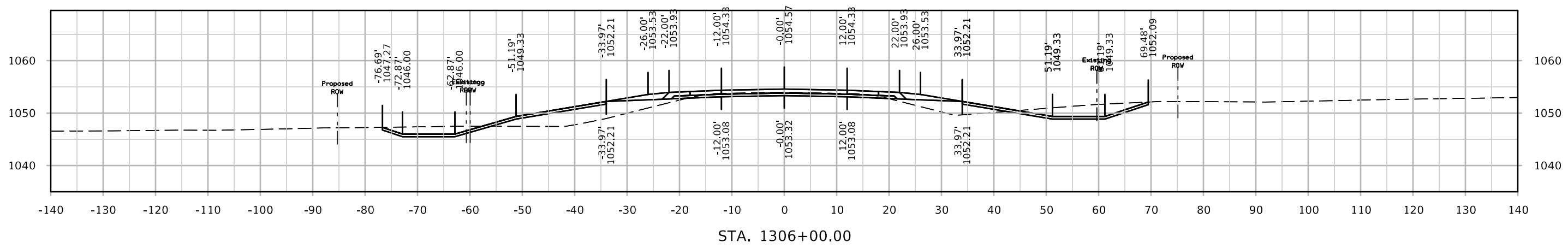
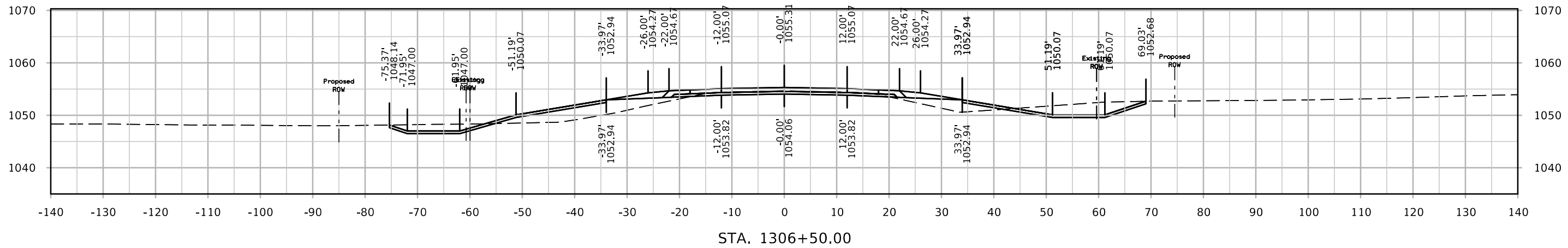


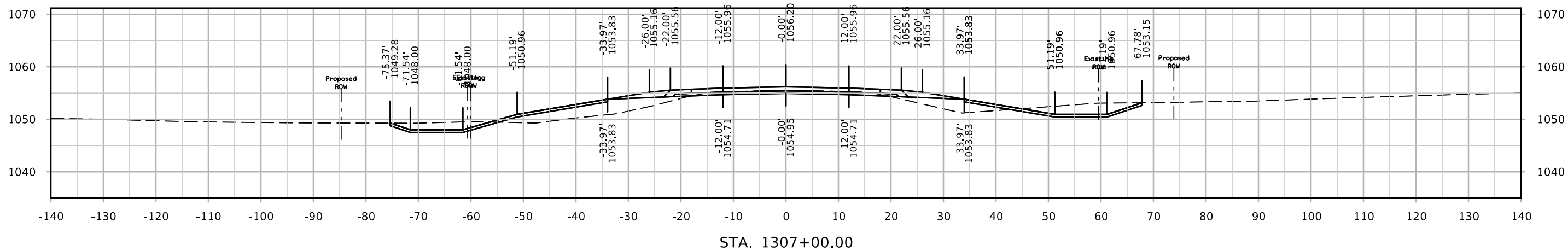
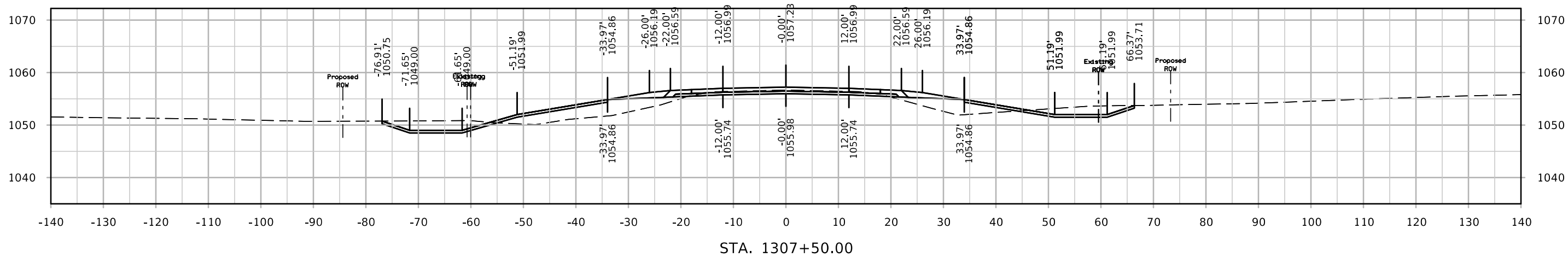
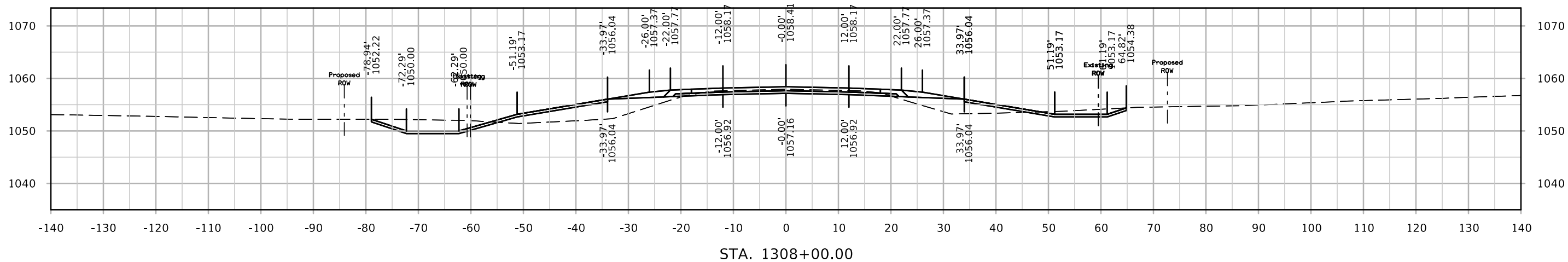


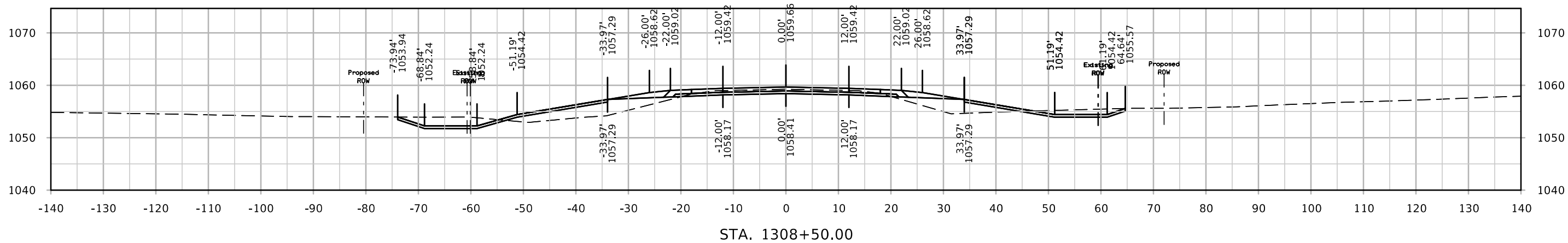
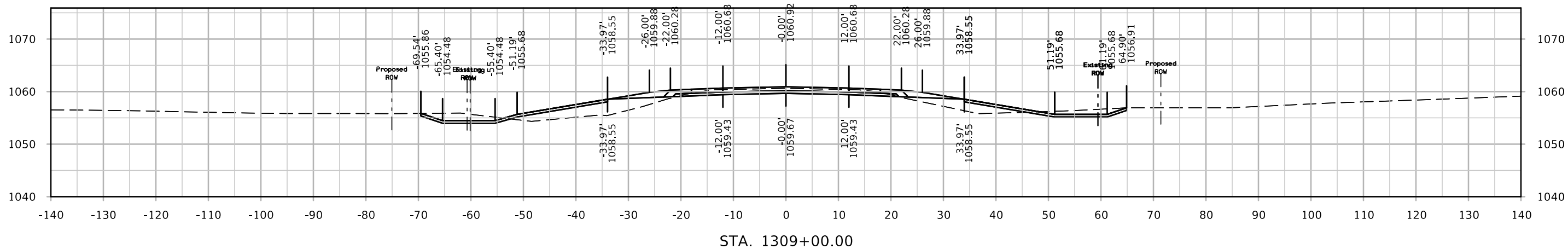
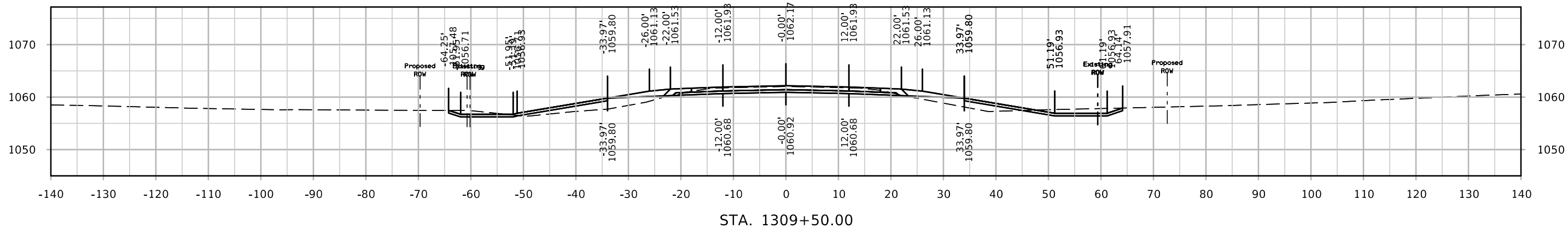


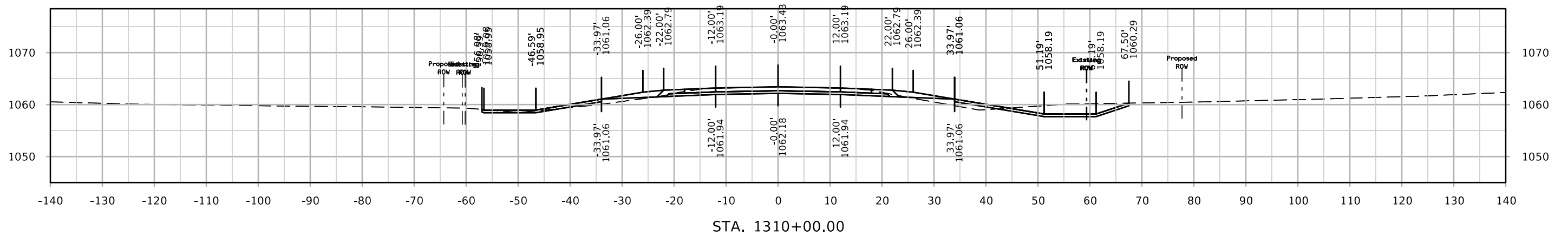
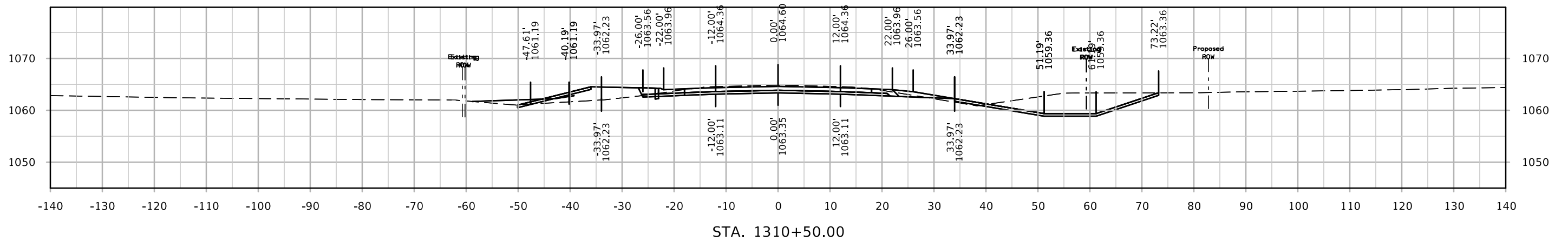
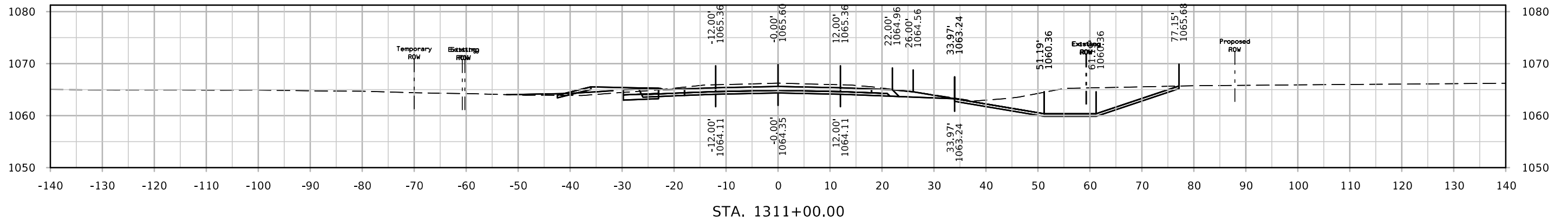


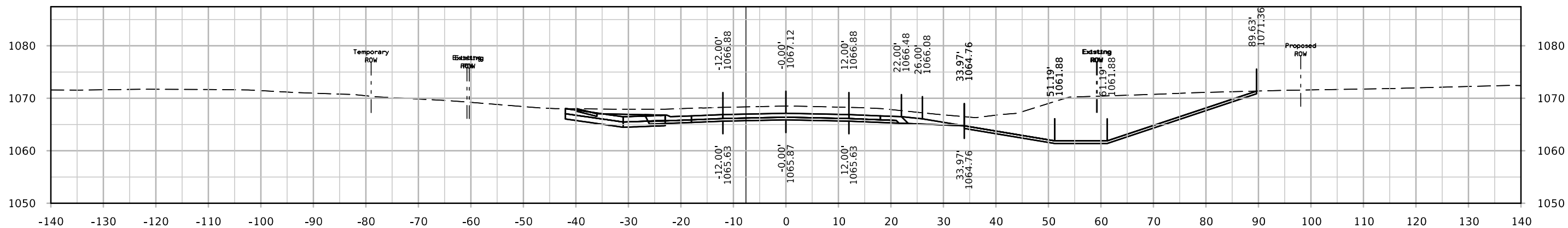




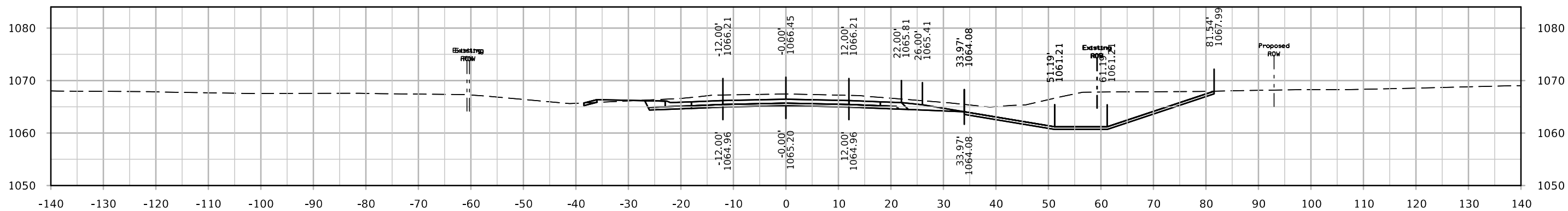




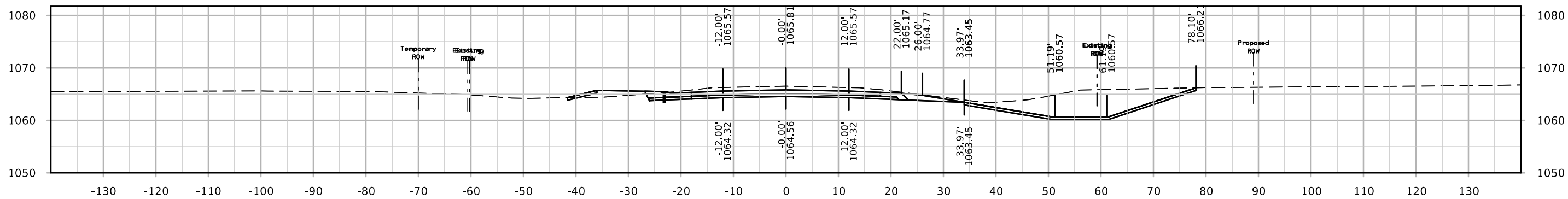




STA. 1312+00.00

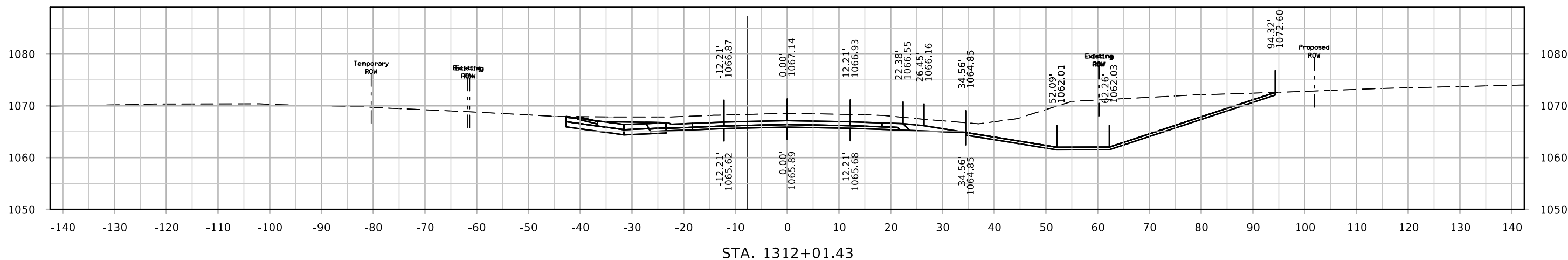
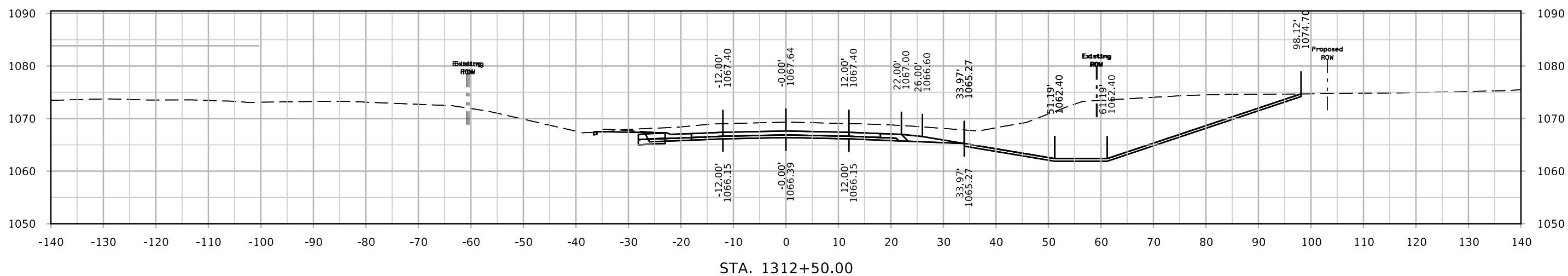
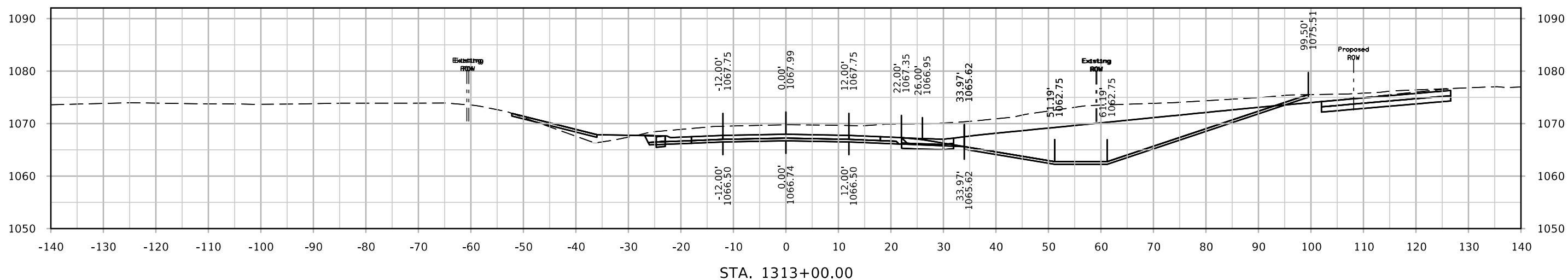


STA. 1311+50.00

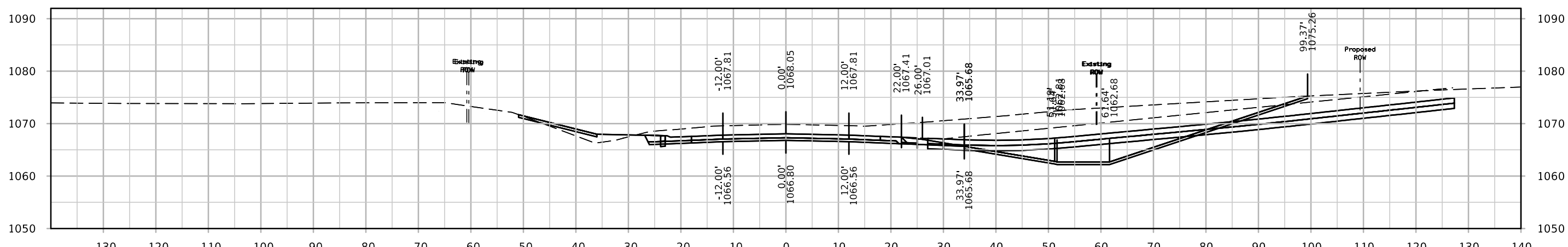
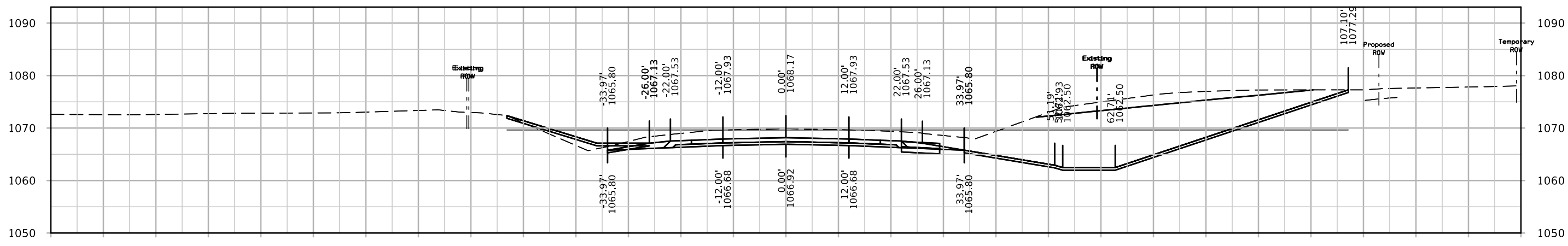
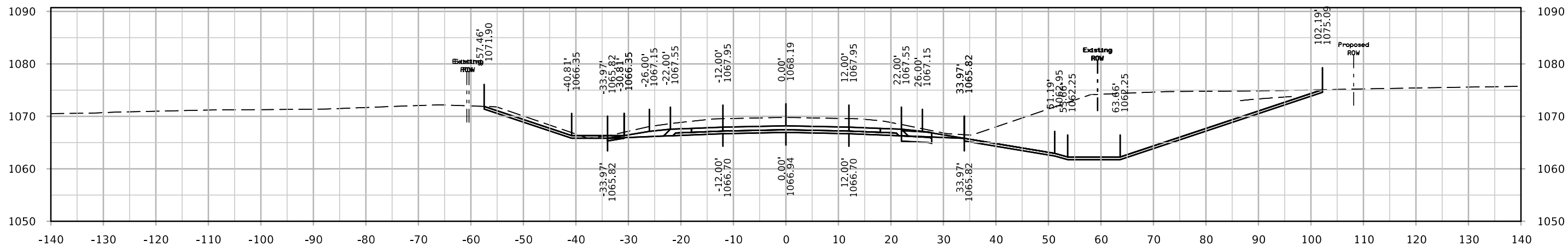


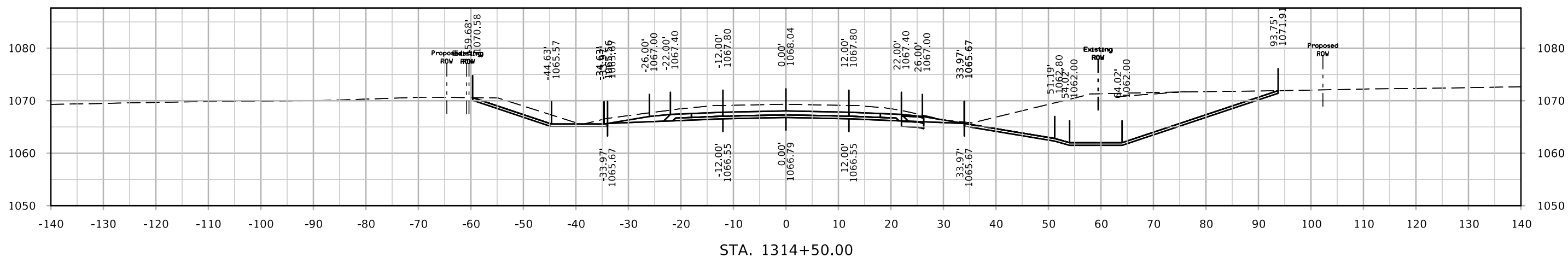
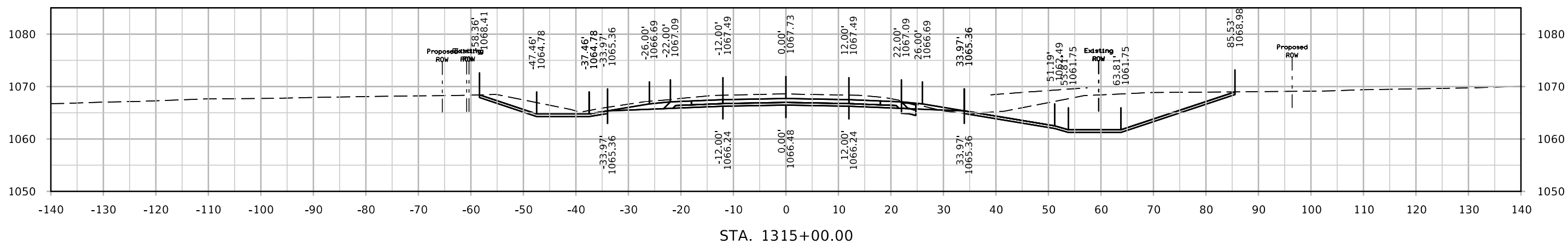
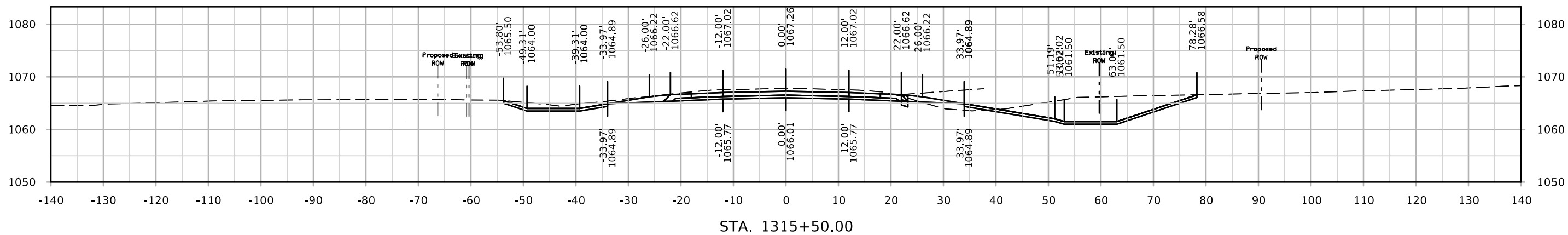
STA. 1311+11.62

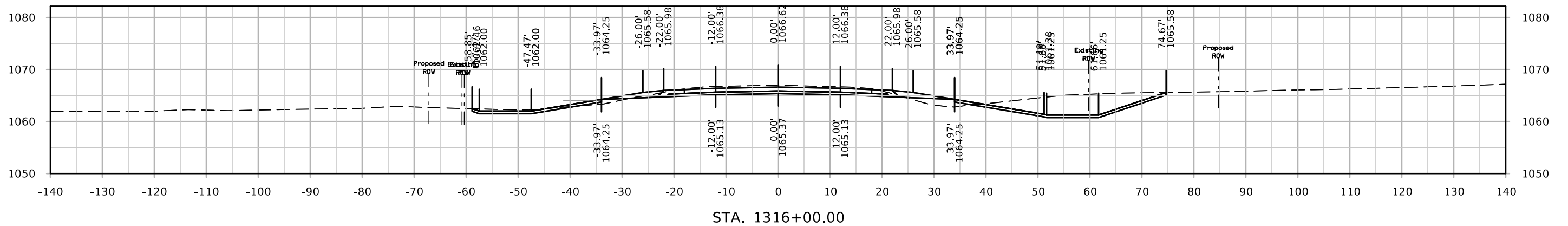
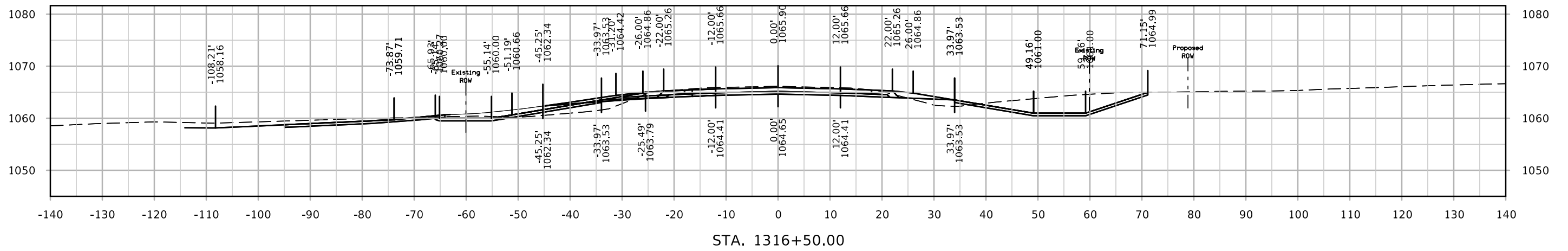
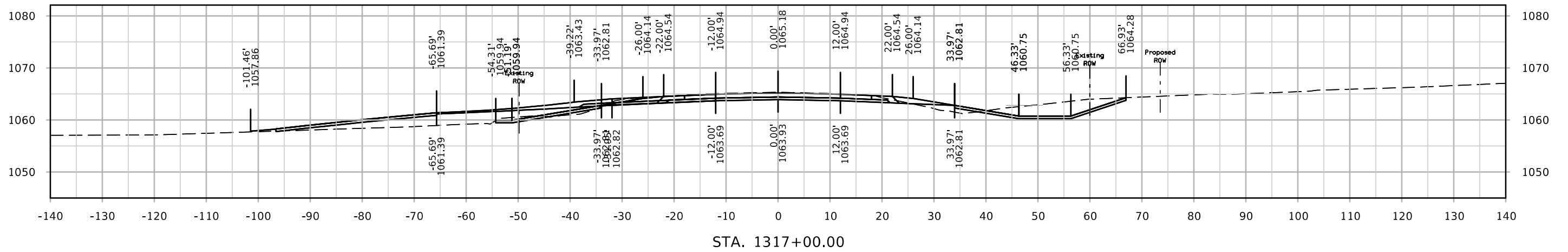
IA 13

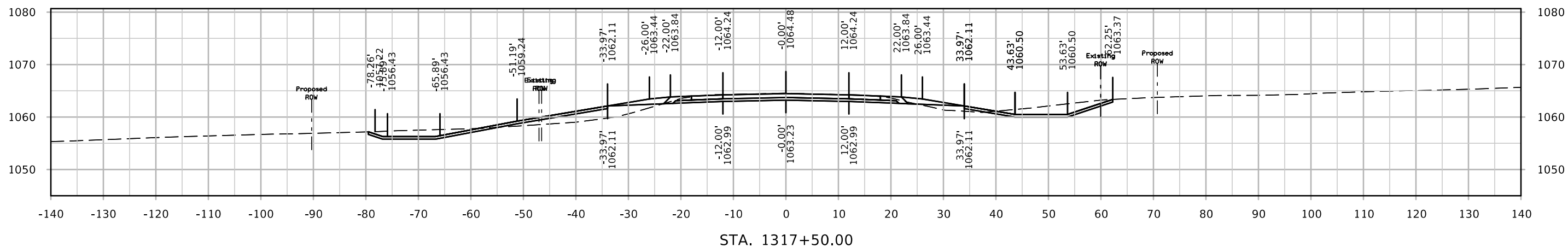
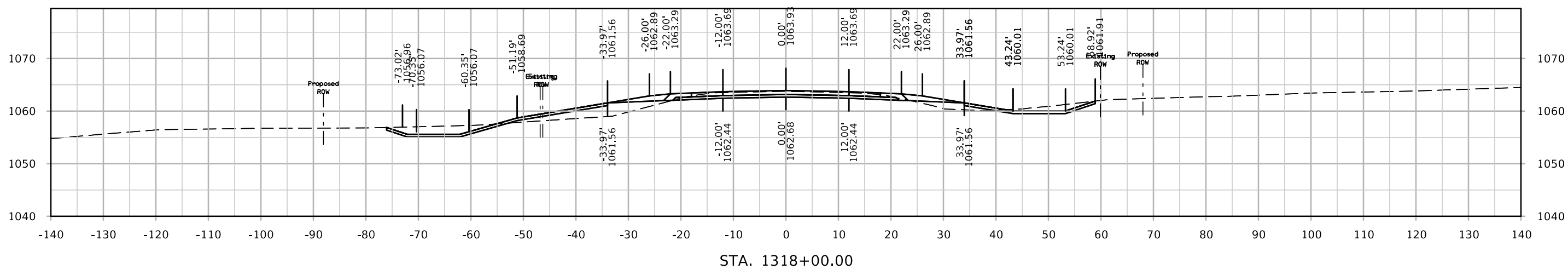
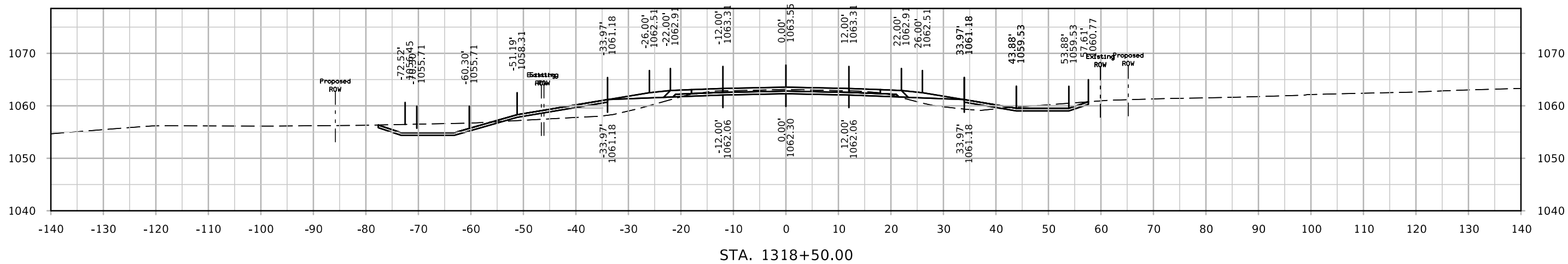


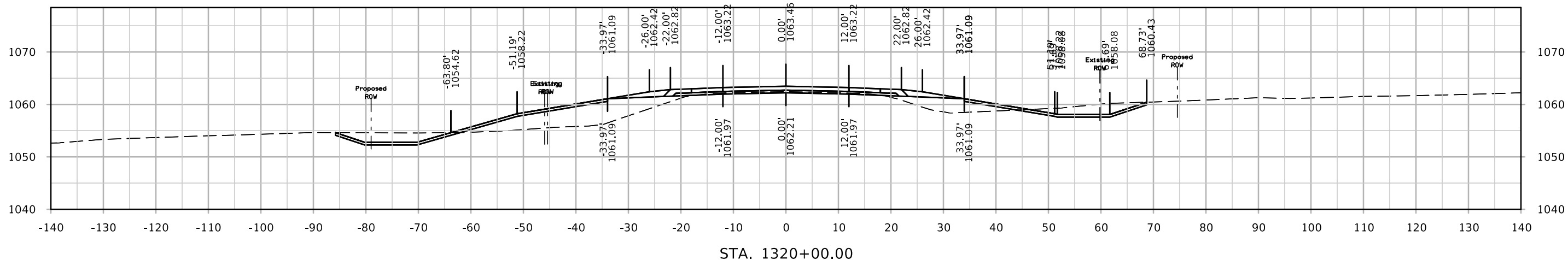
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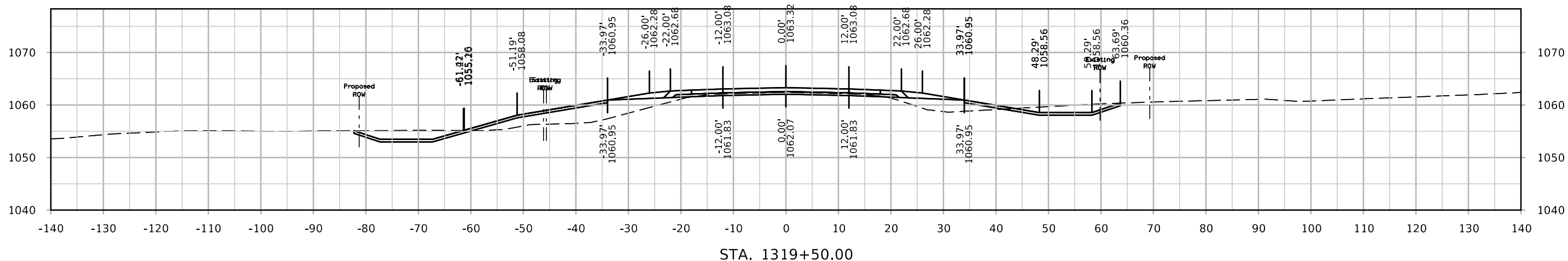




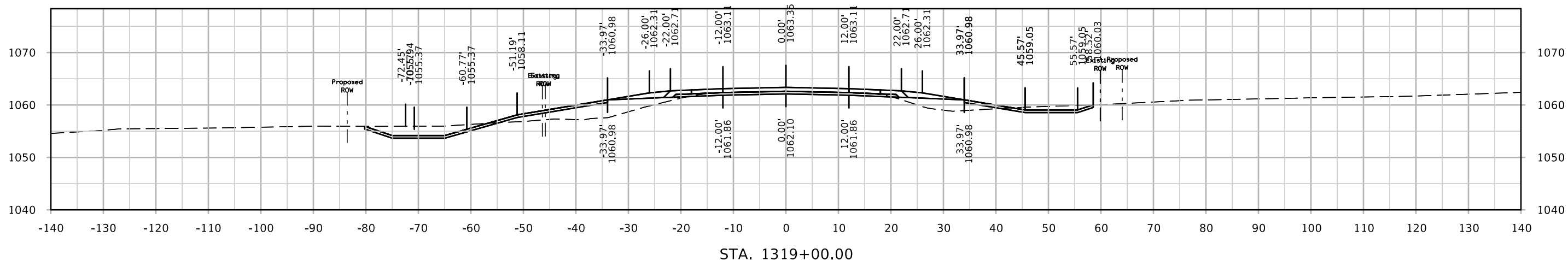




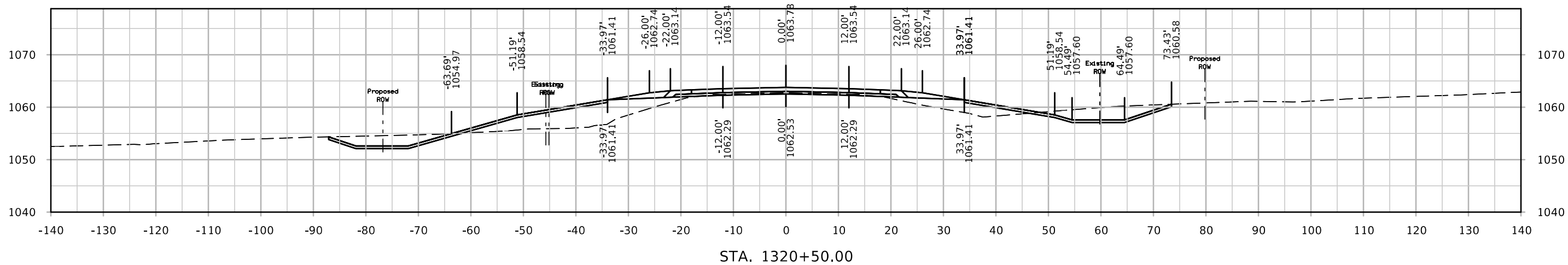
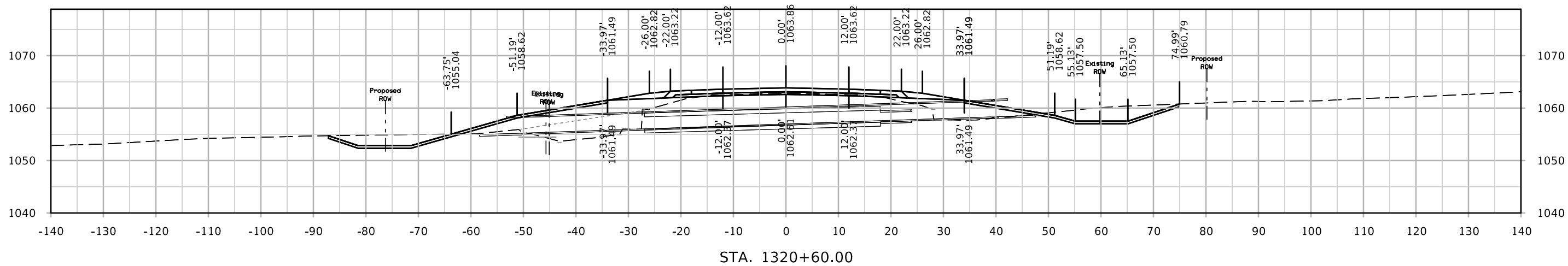
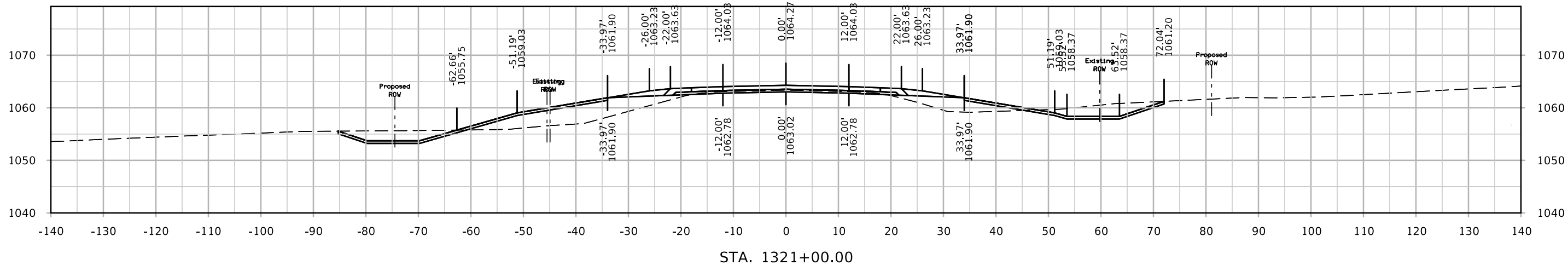
STA. 1320+00.00

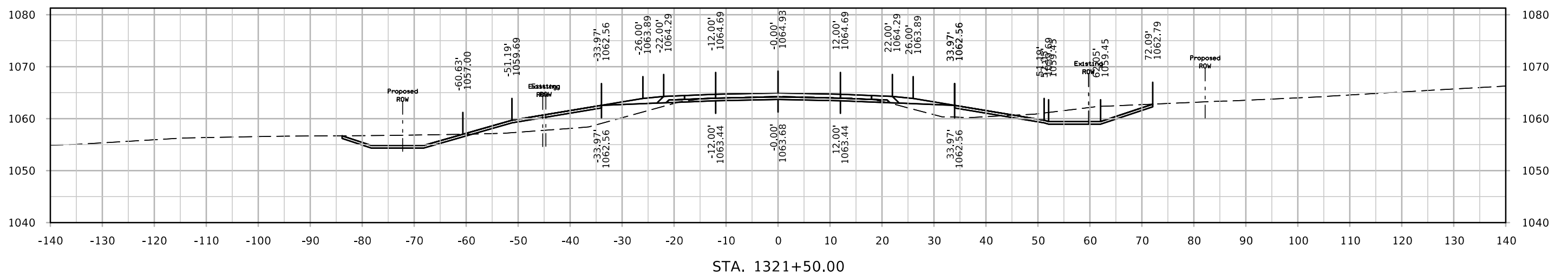
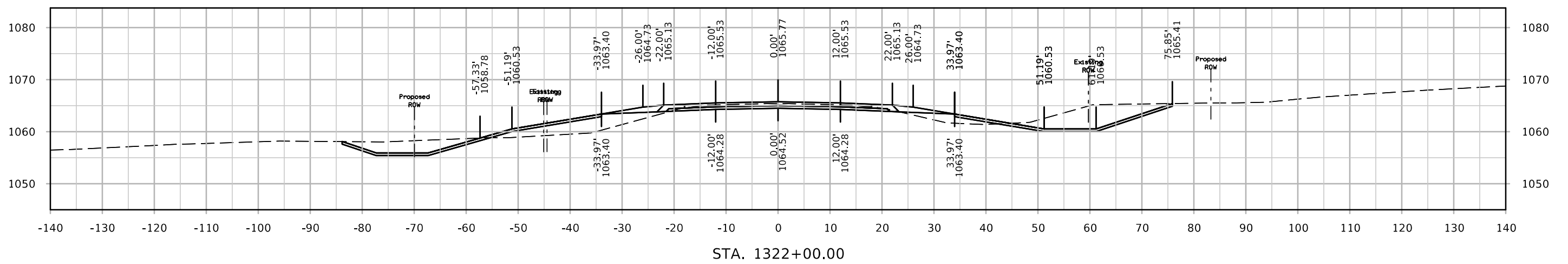
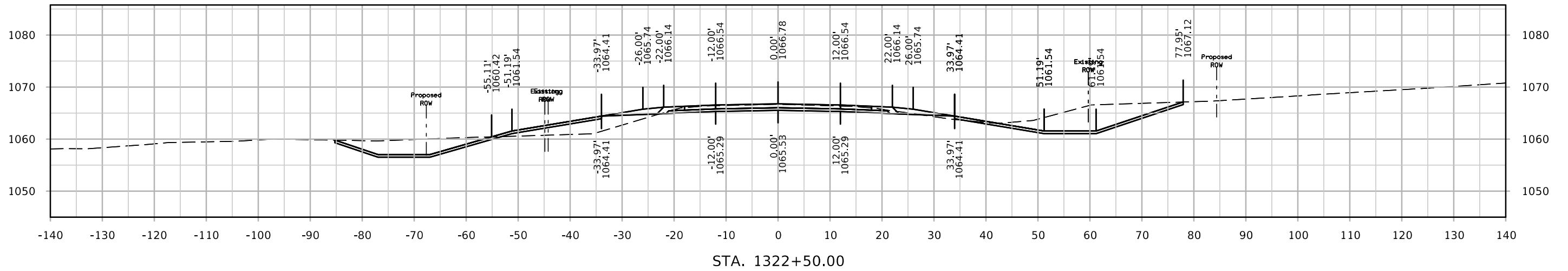


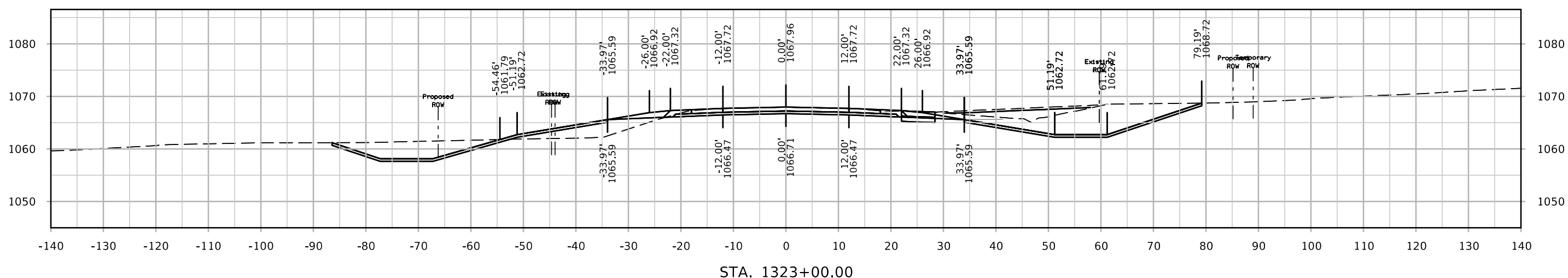
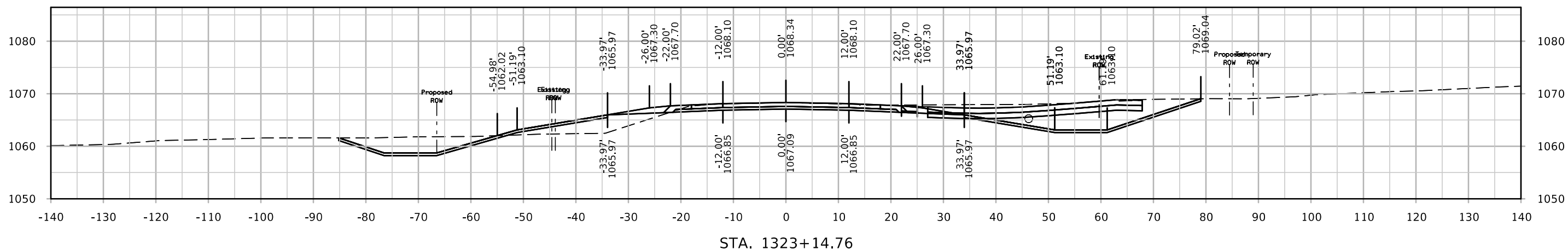
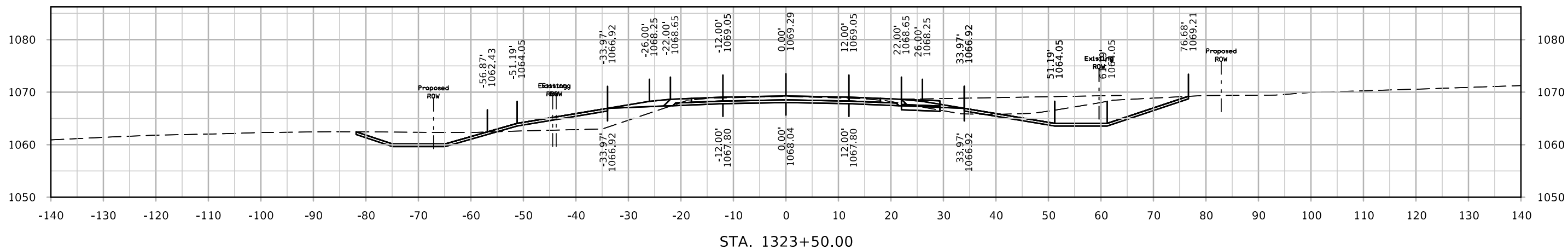
STA. 1319+50.00

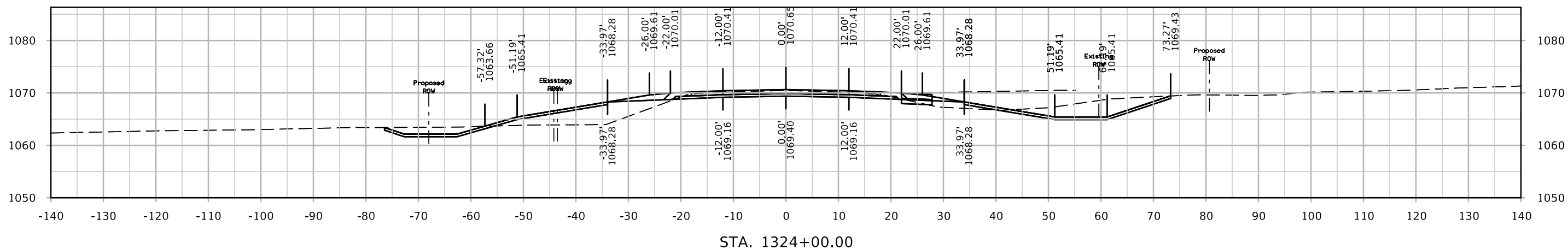
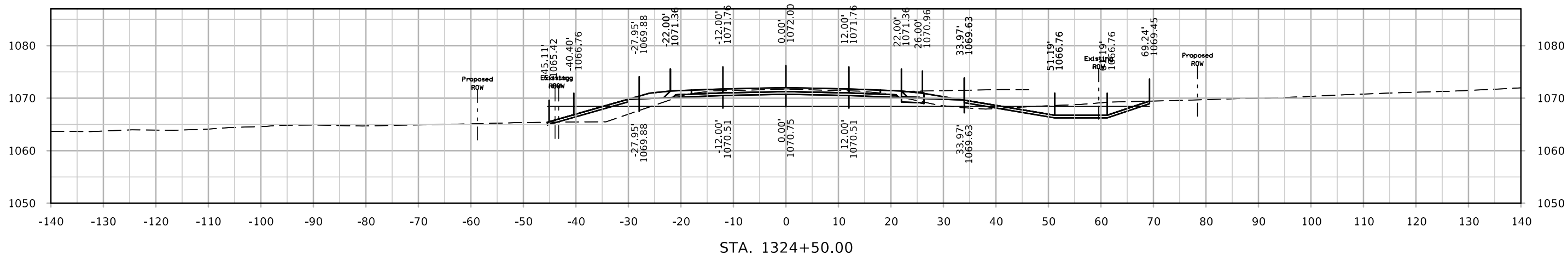
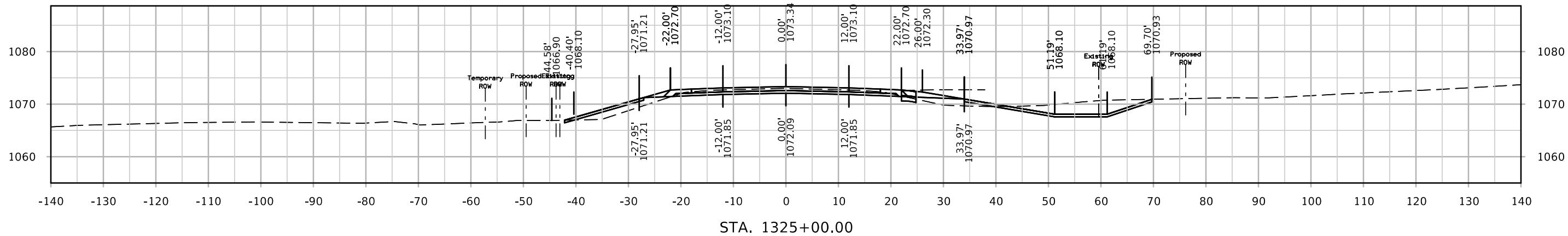


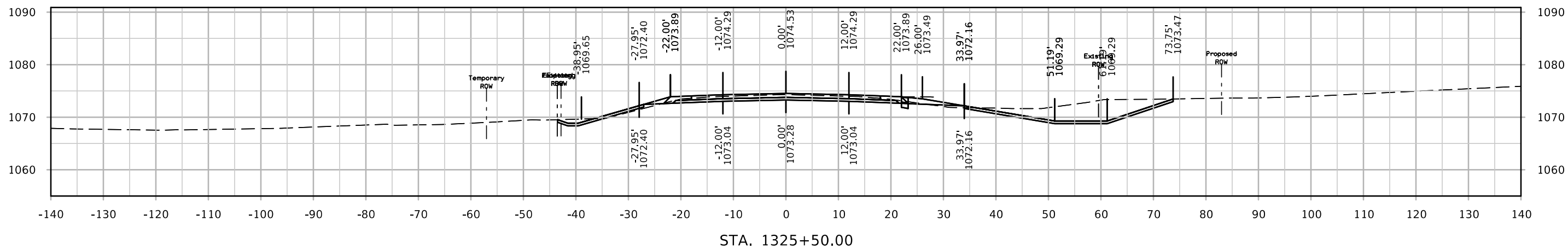
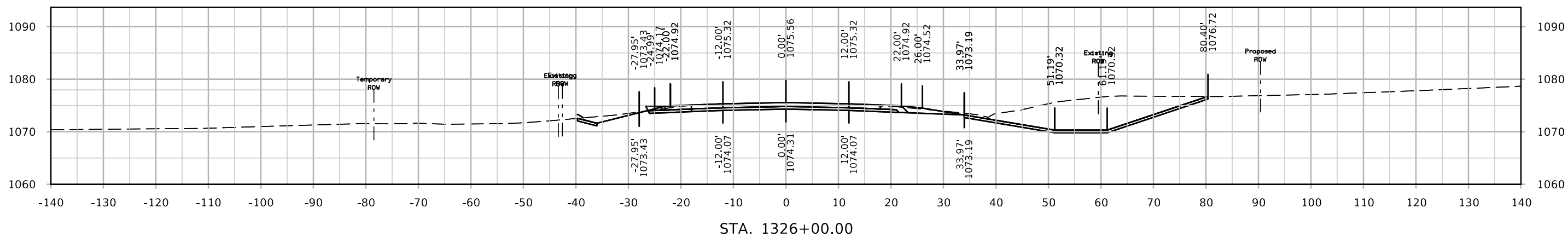
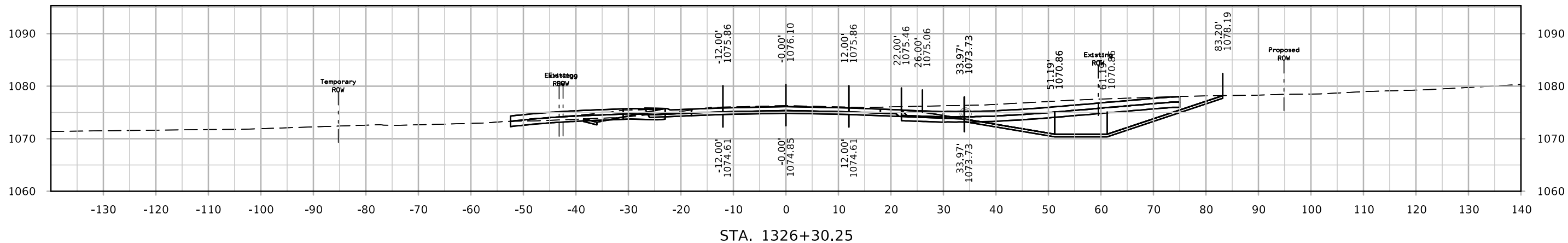
STA. 1319+00.00

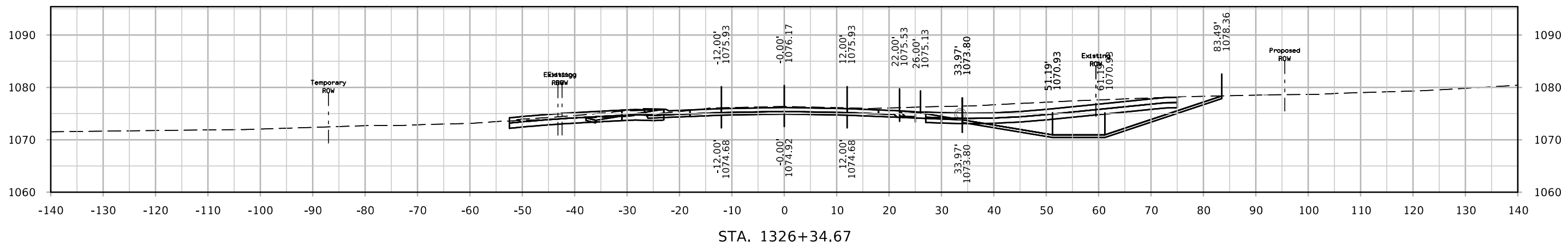
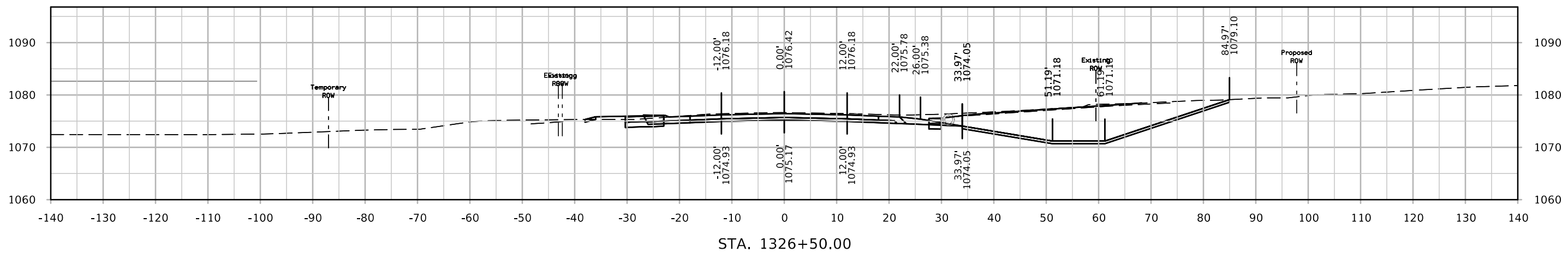
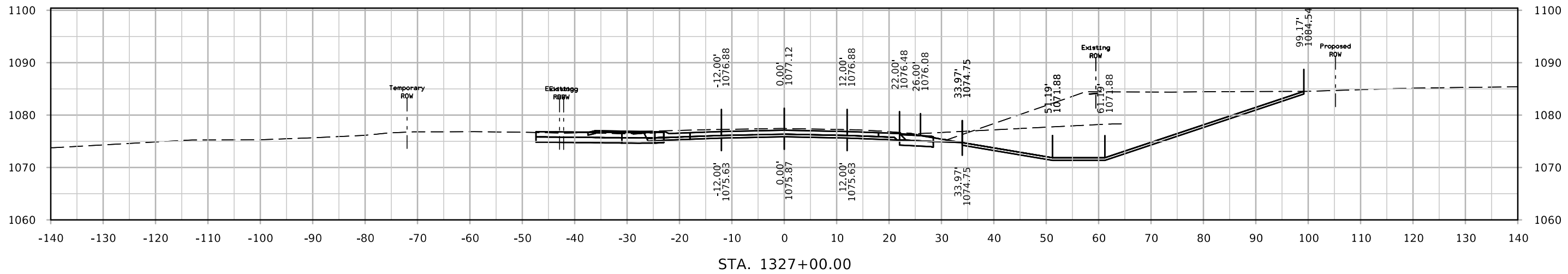




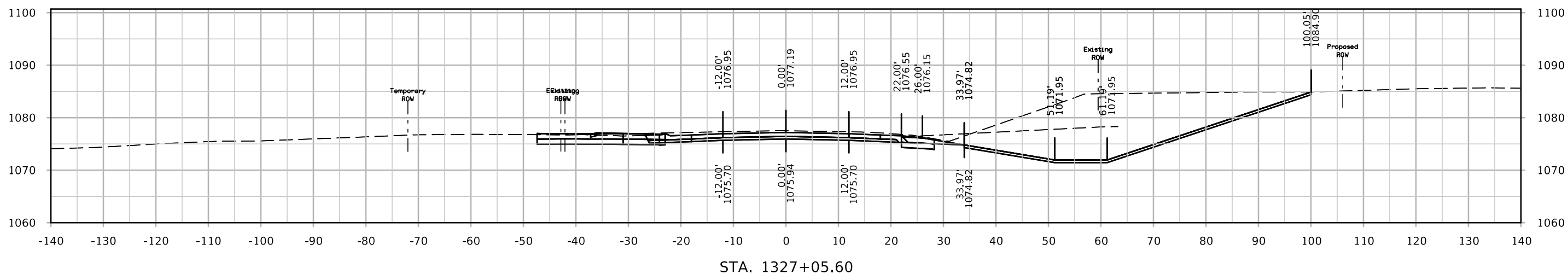
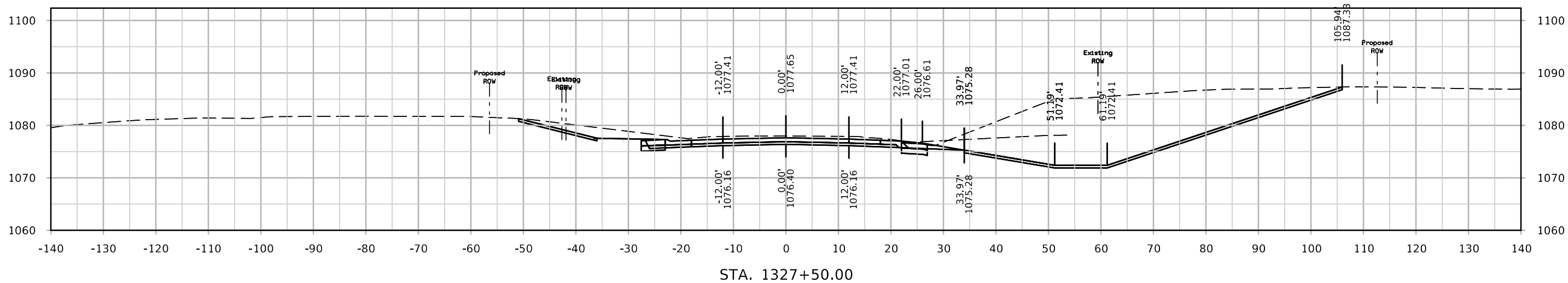
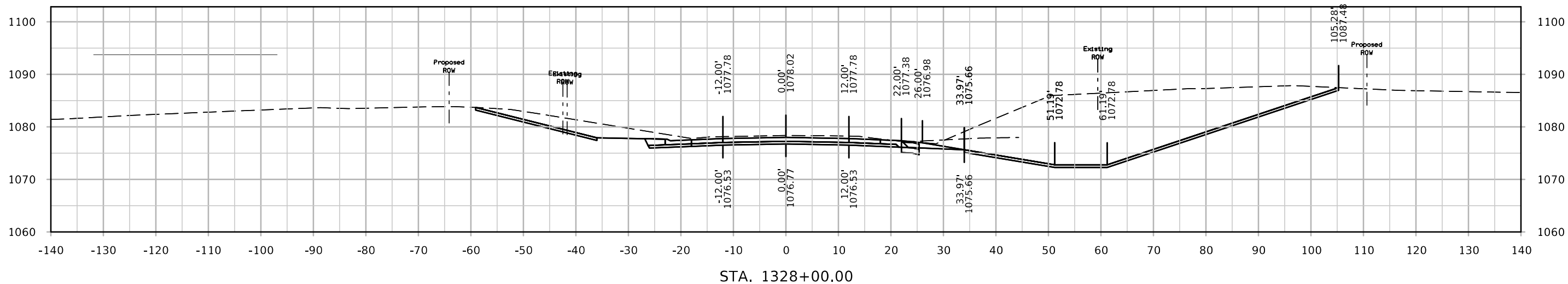


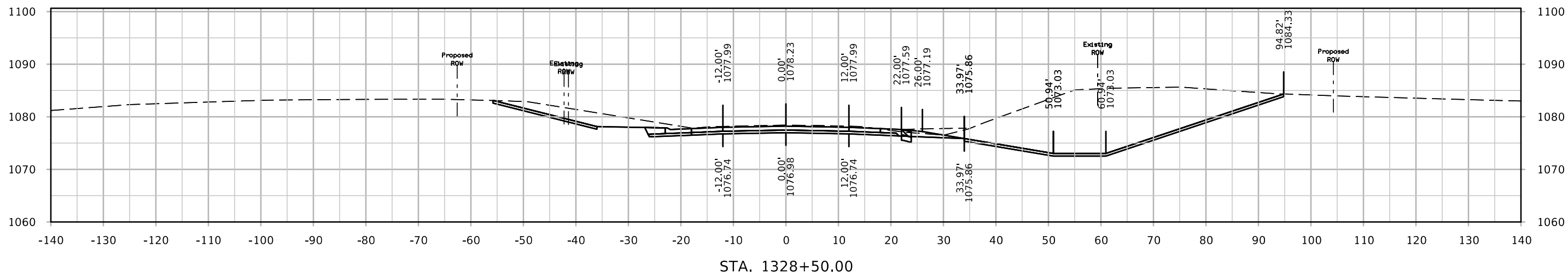
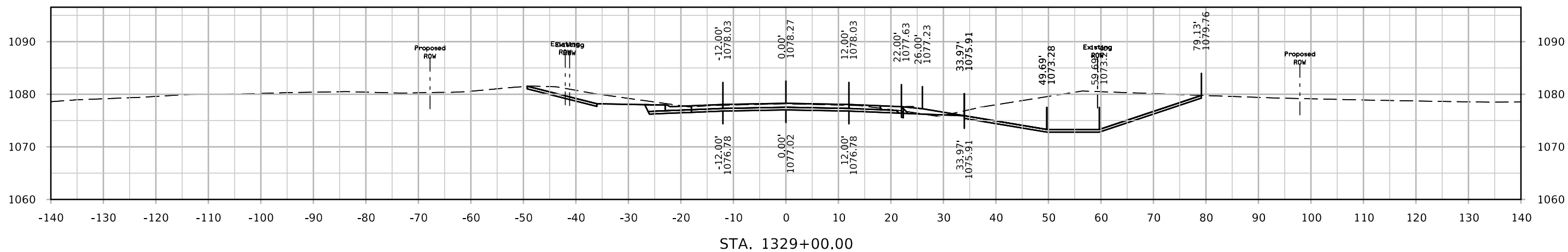
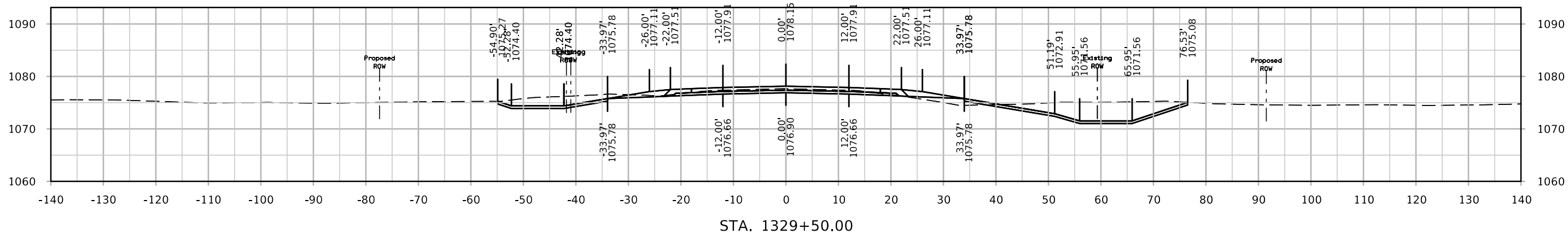


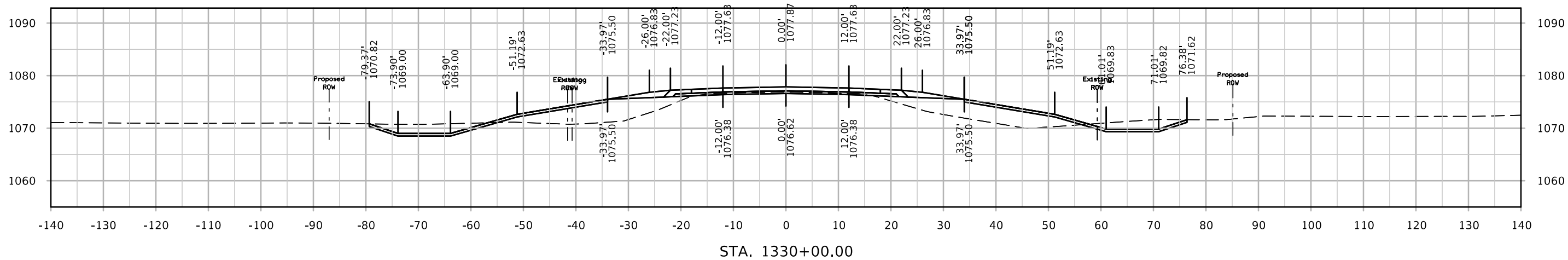
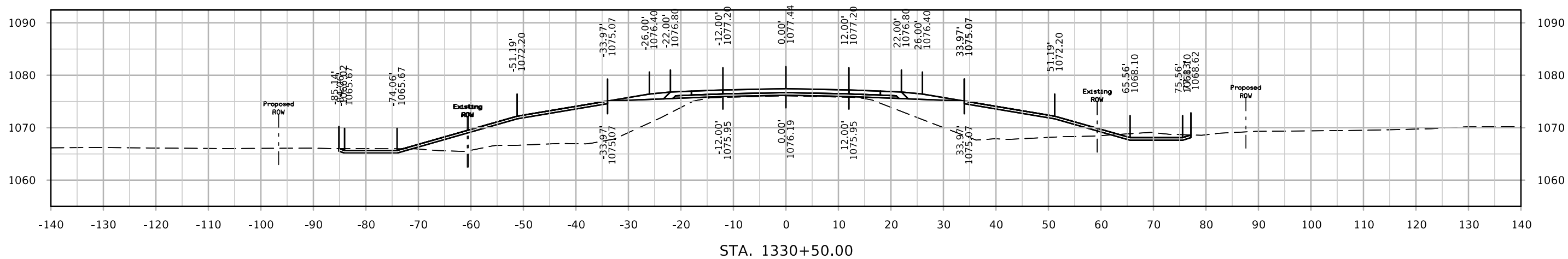
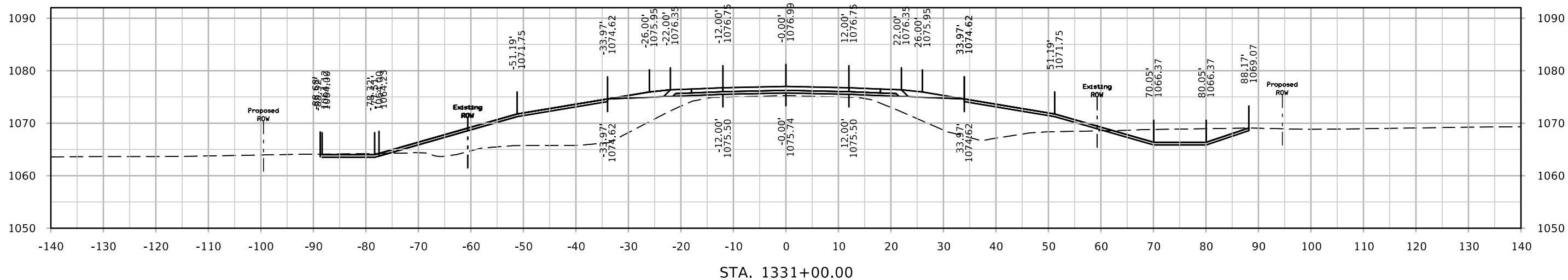




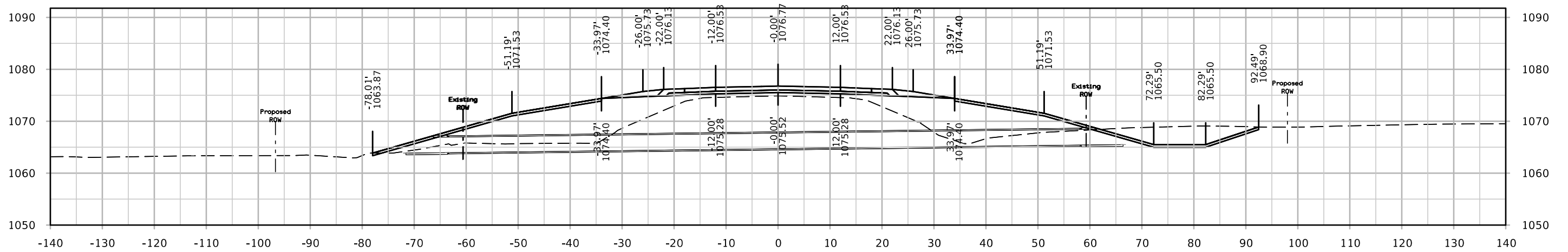
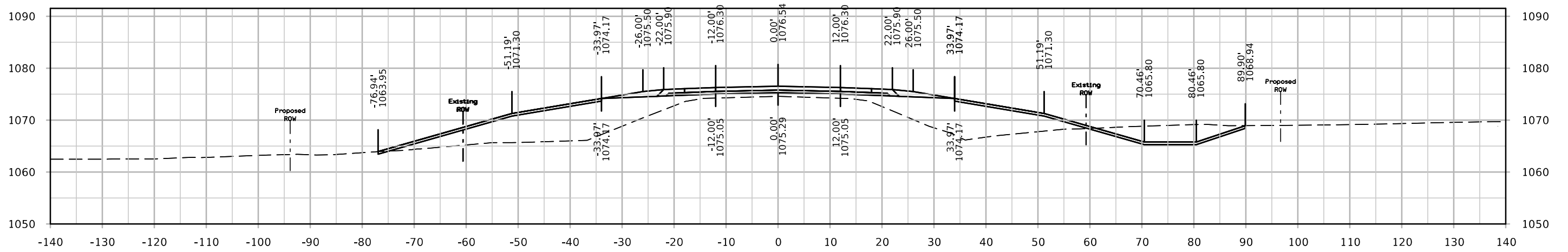
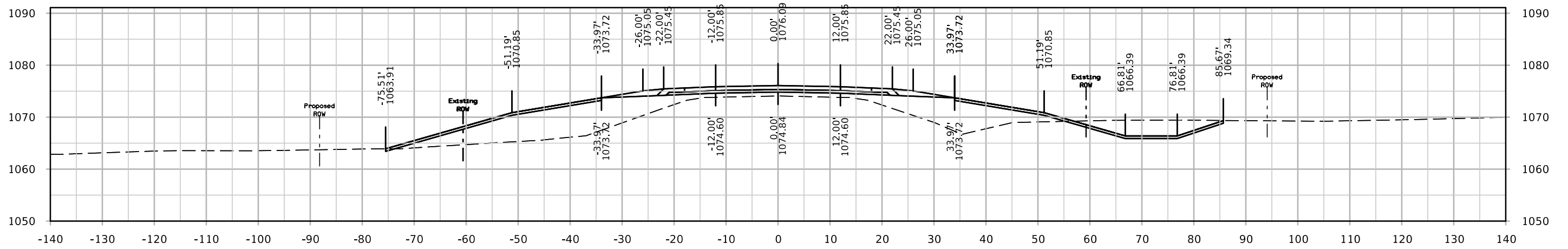
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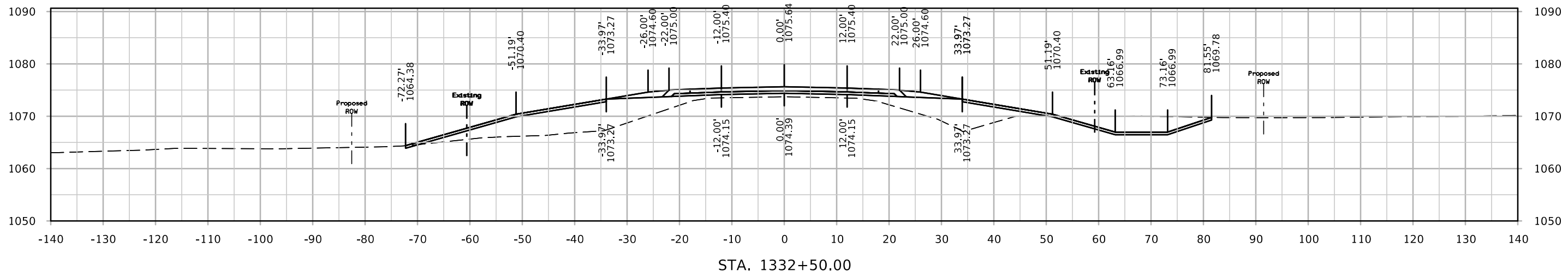
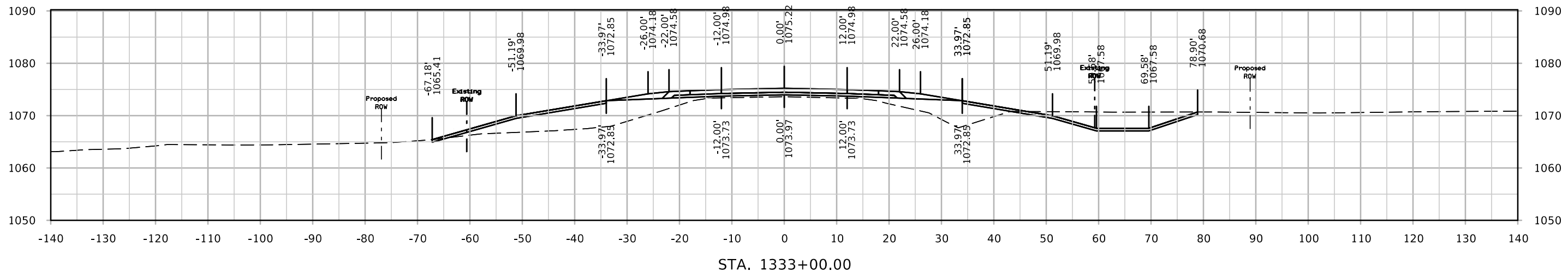
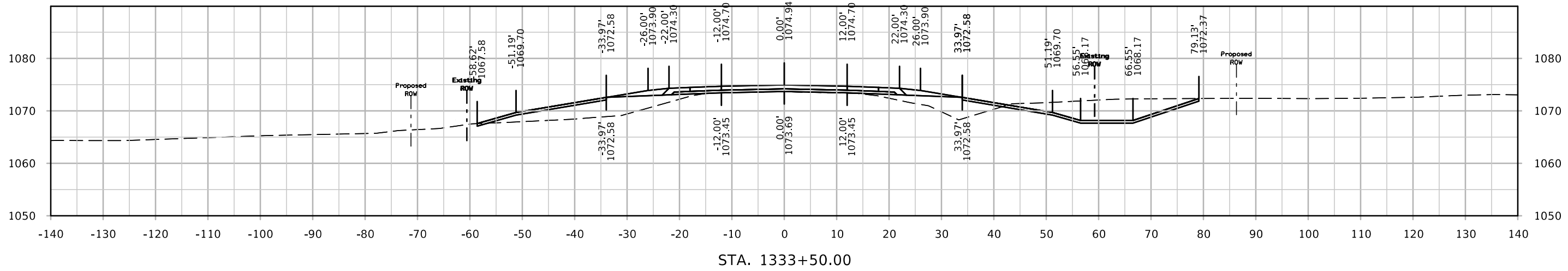


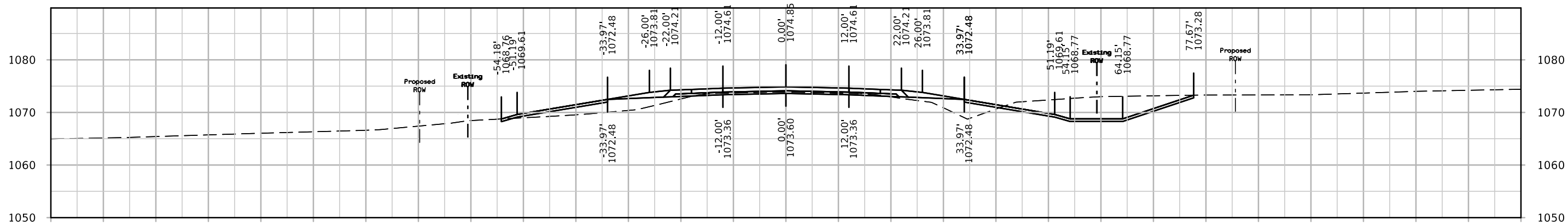
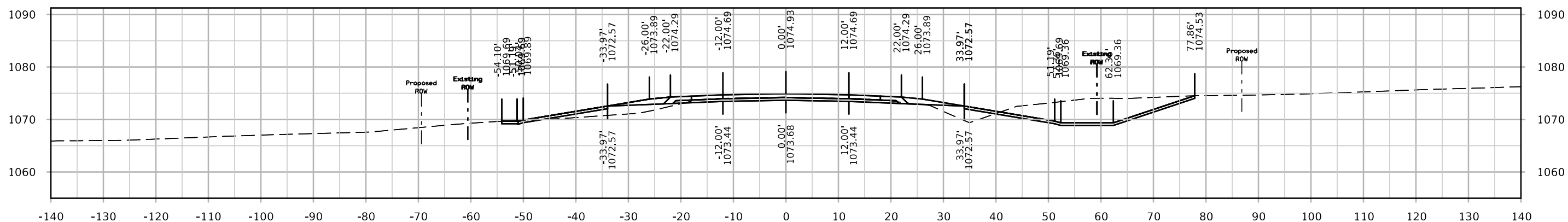
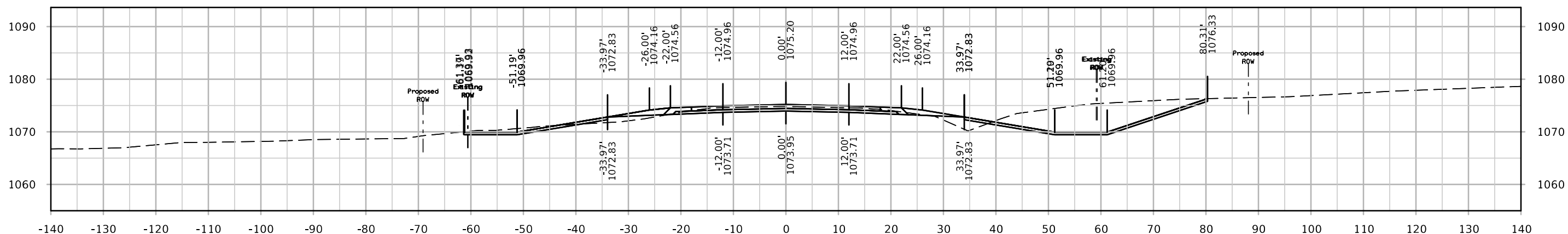


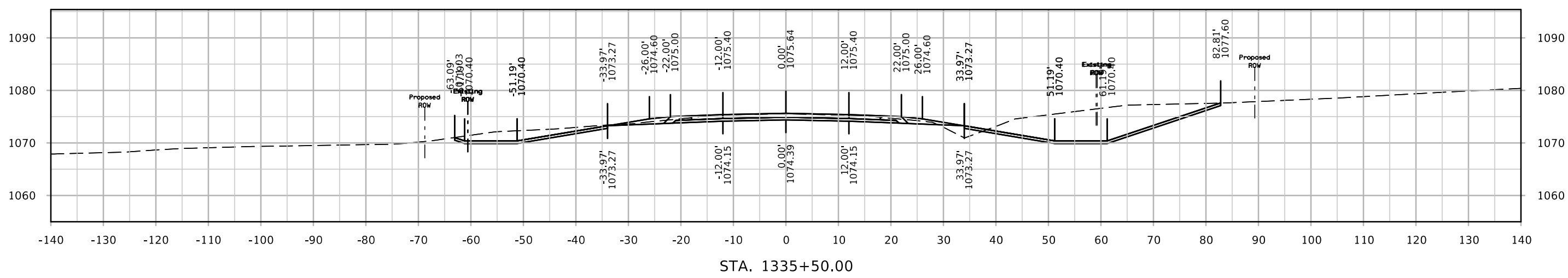
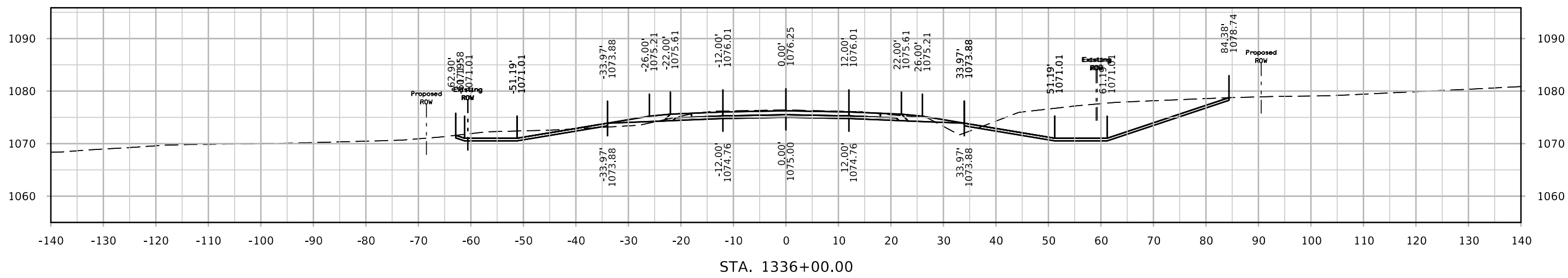
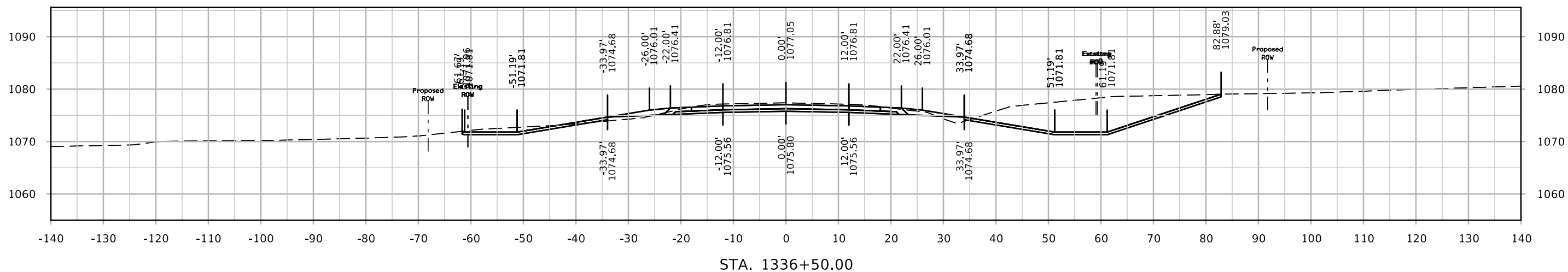


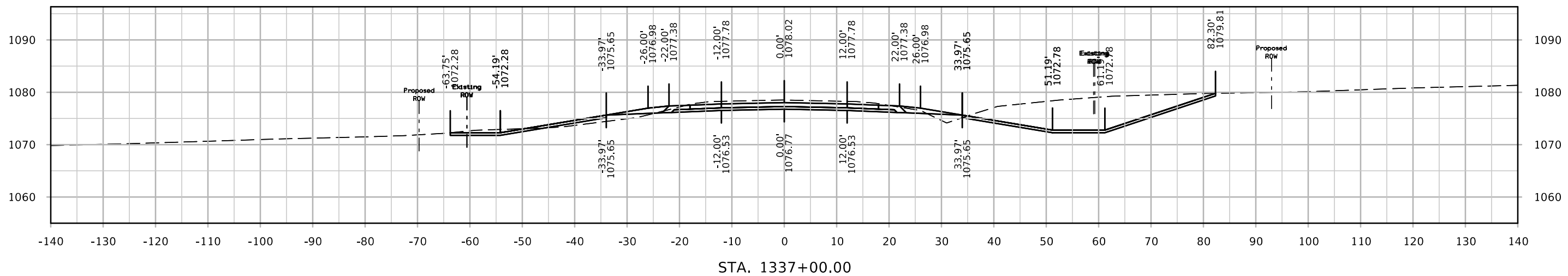
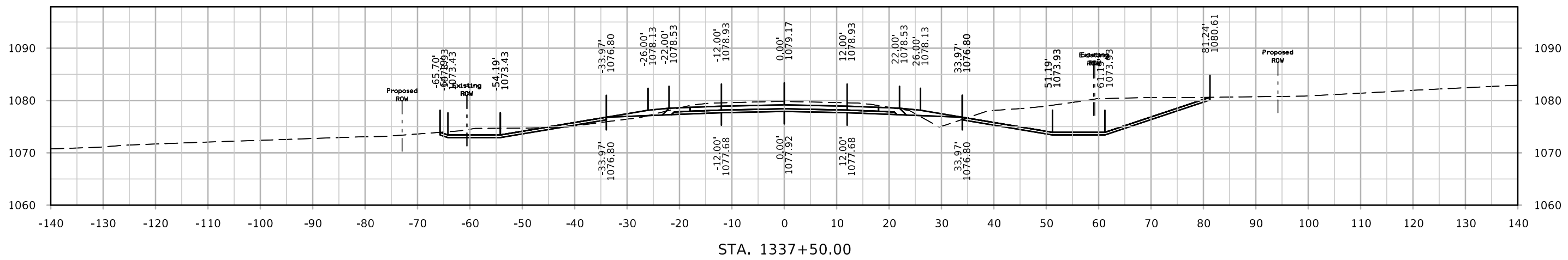
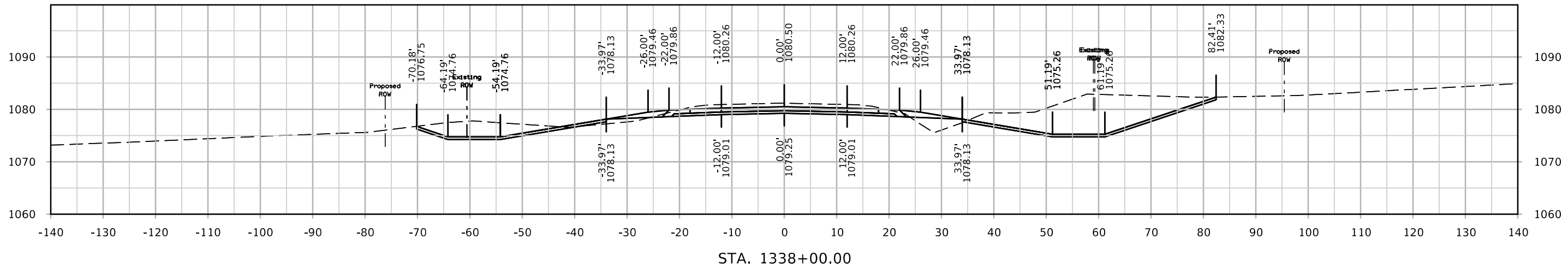
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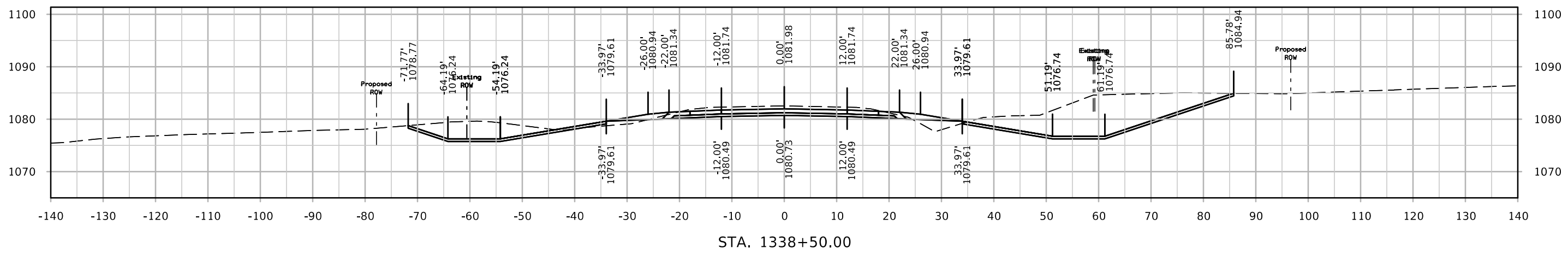
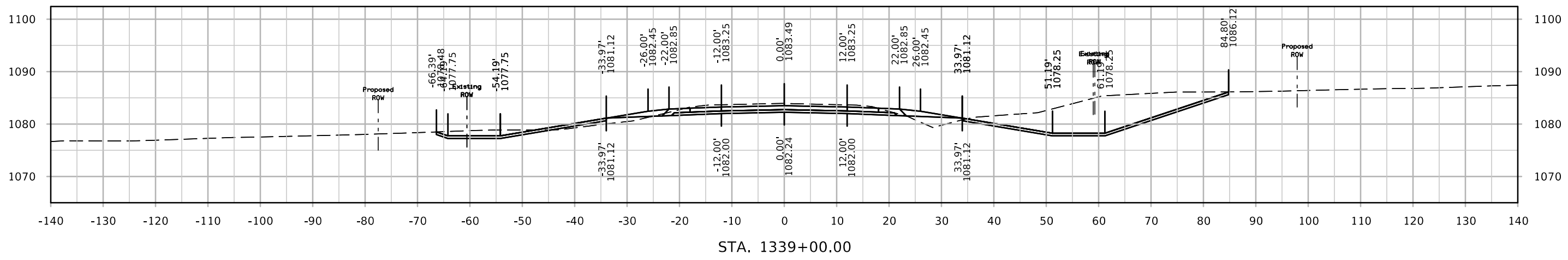
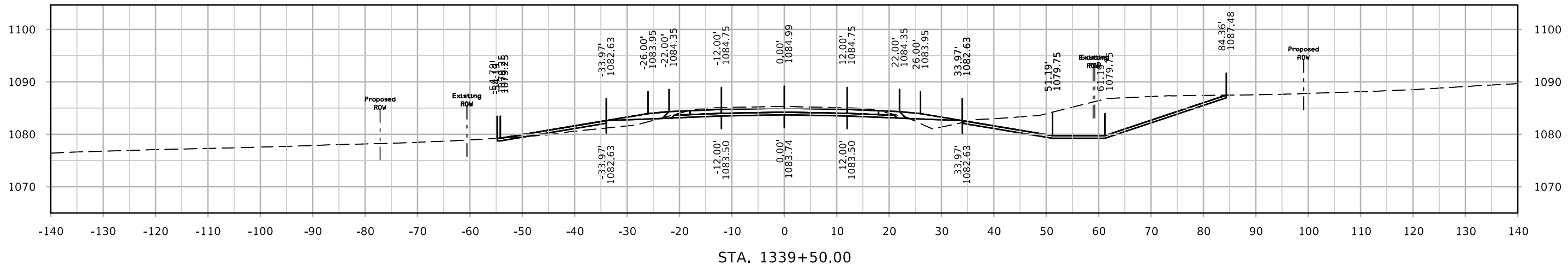


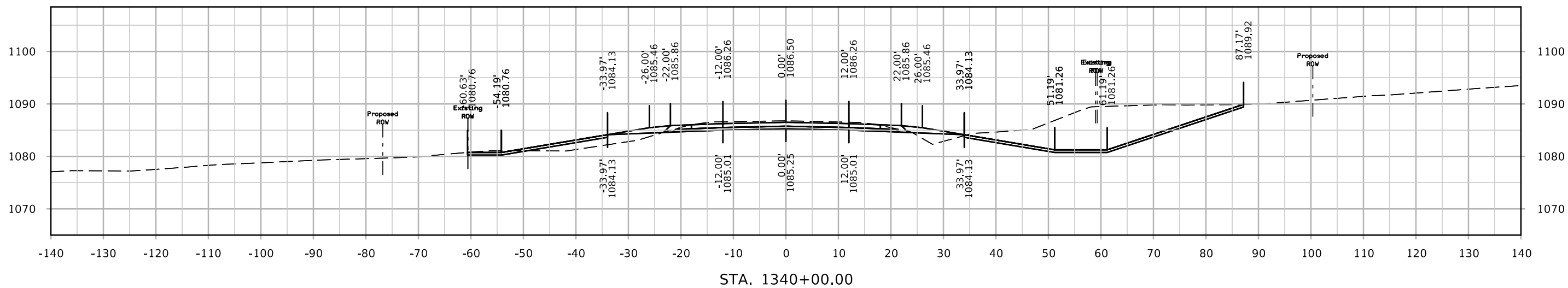
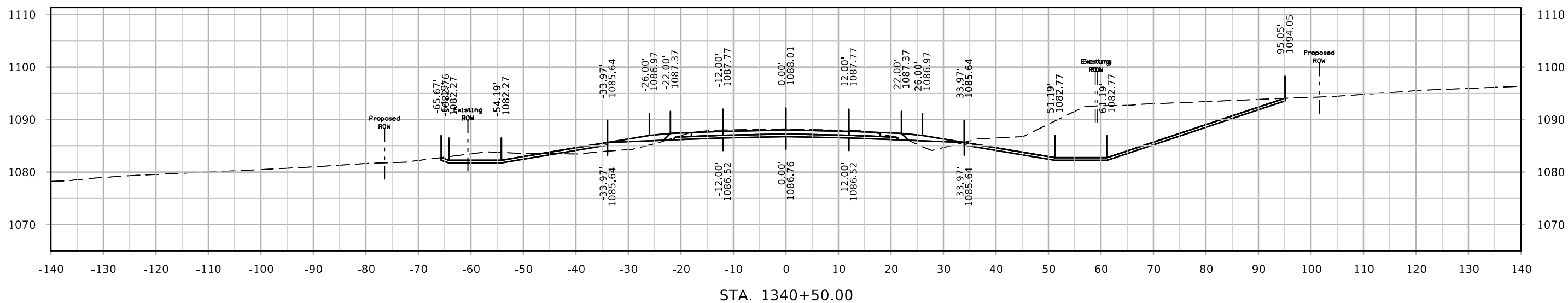


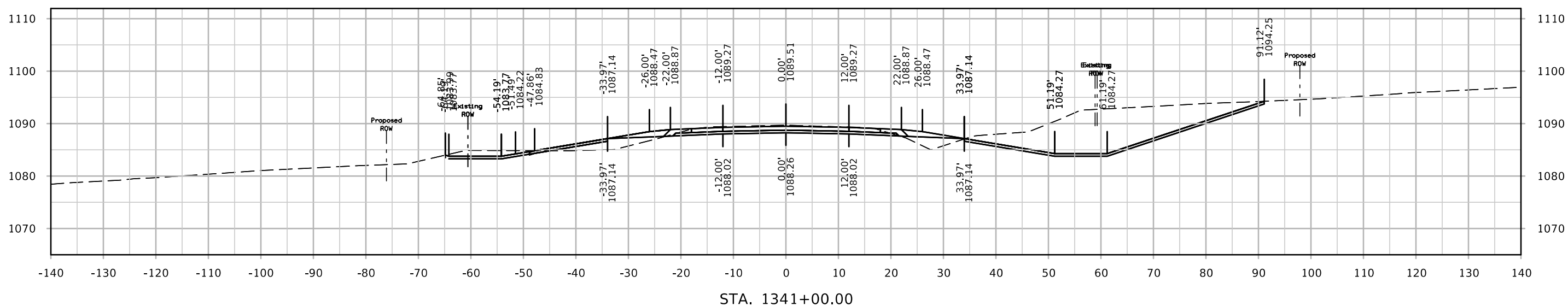
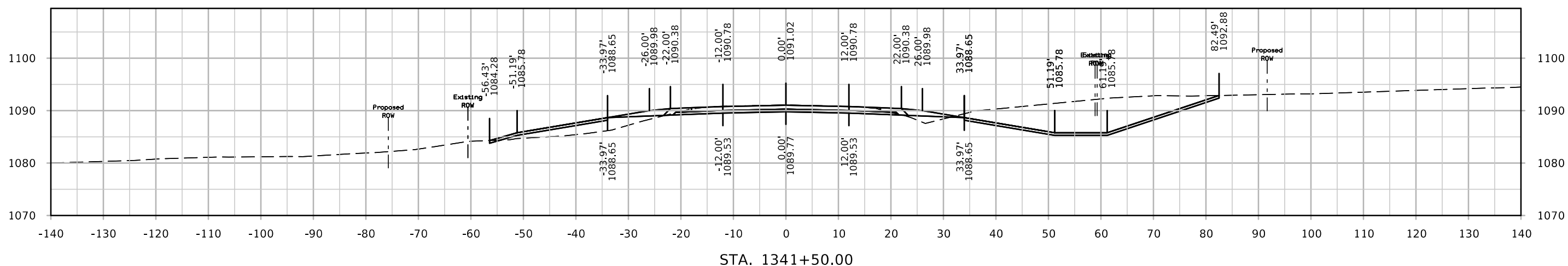
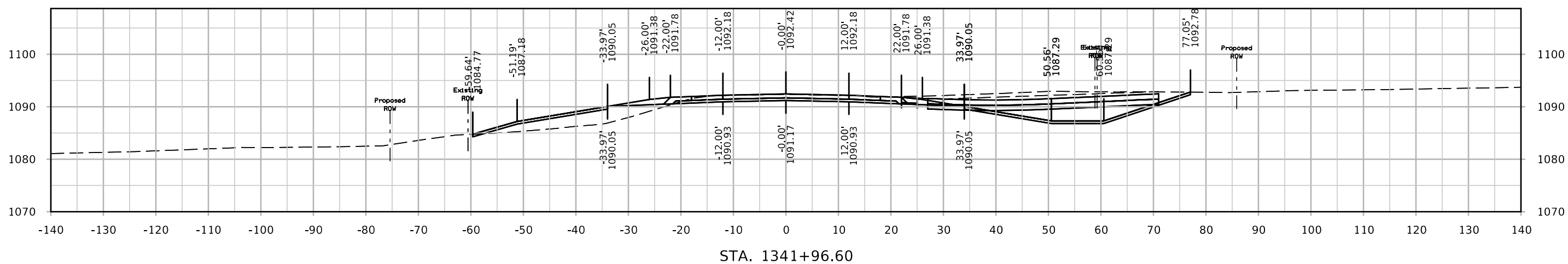


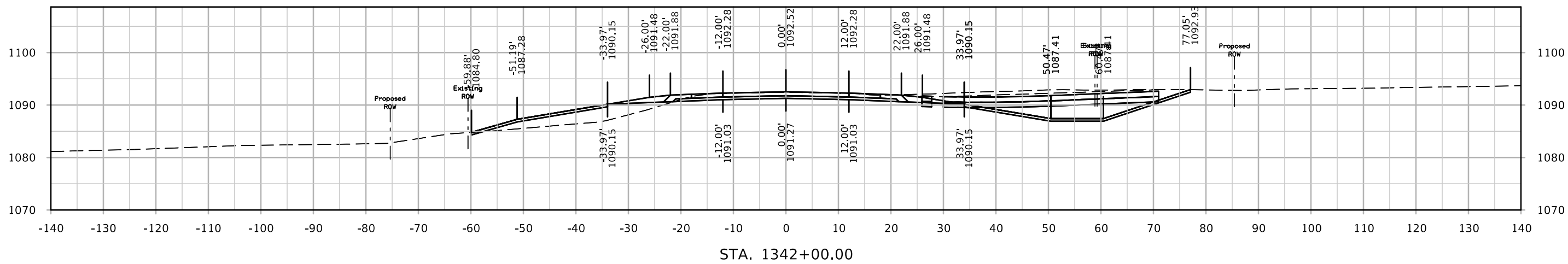
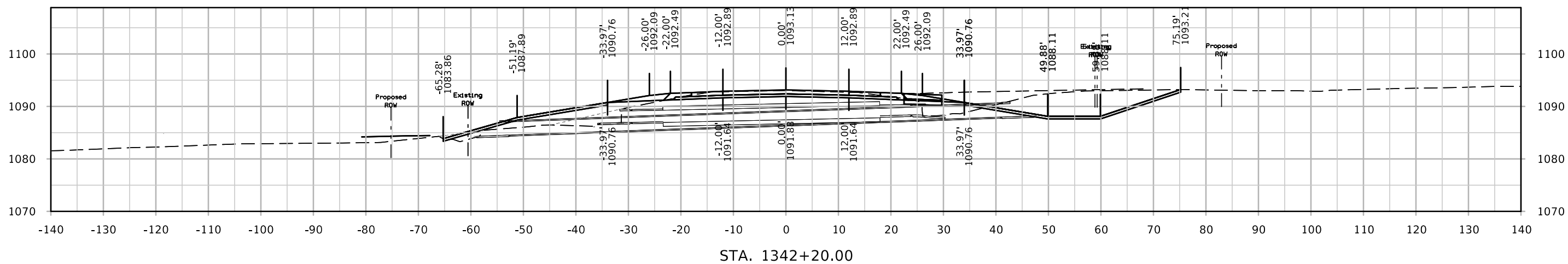
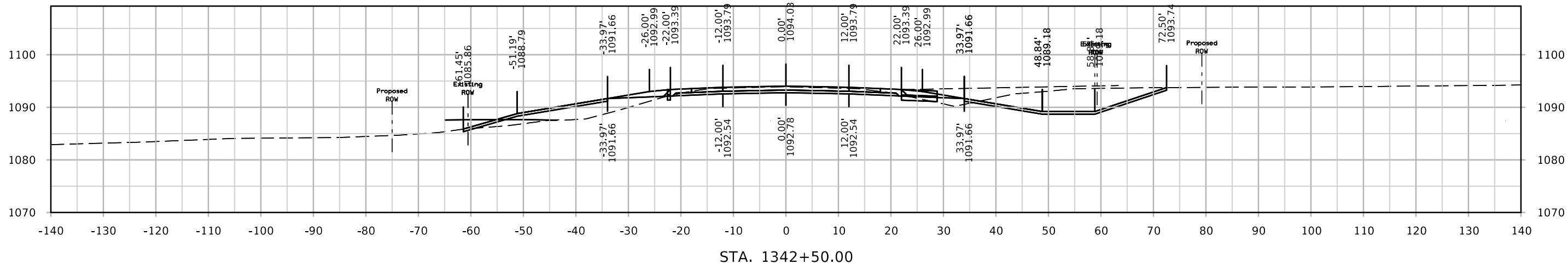


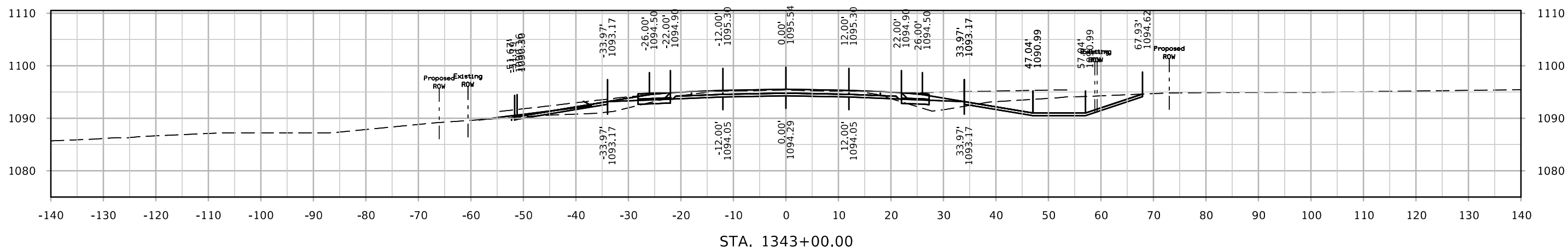
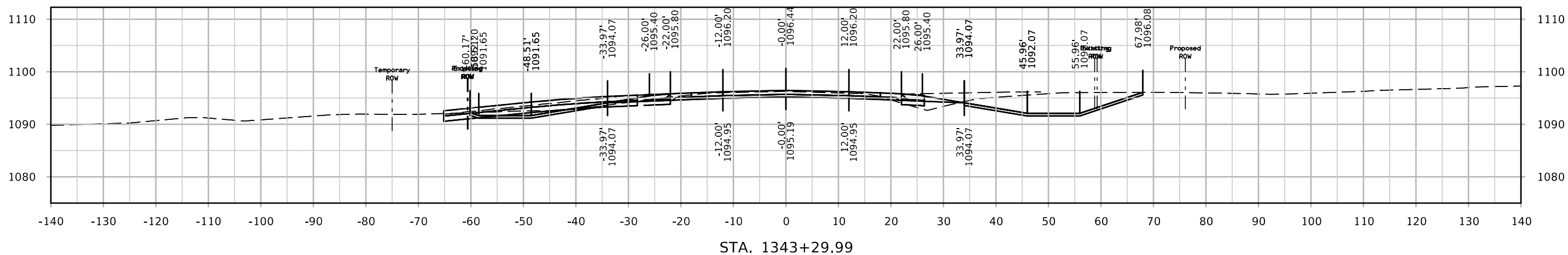
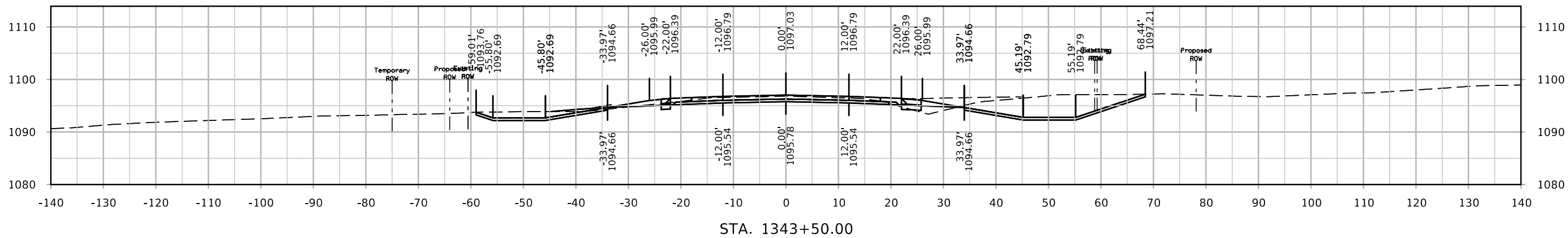


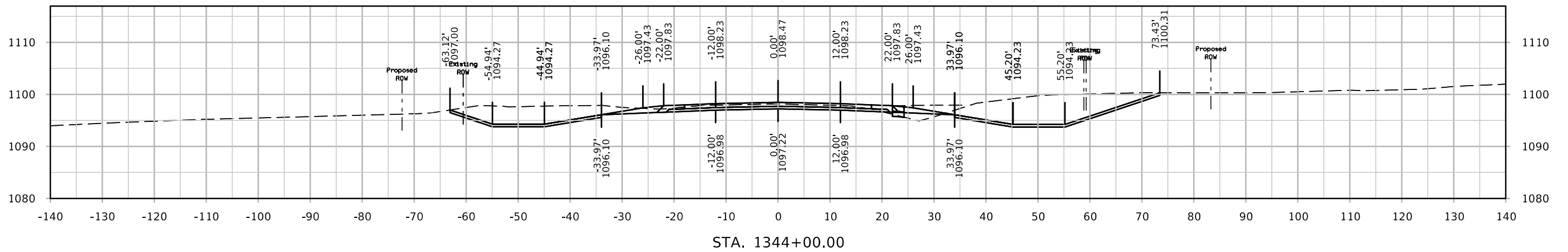
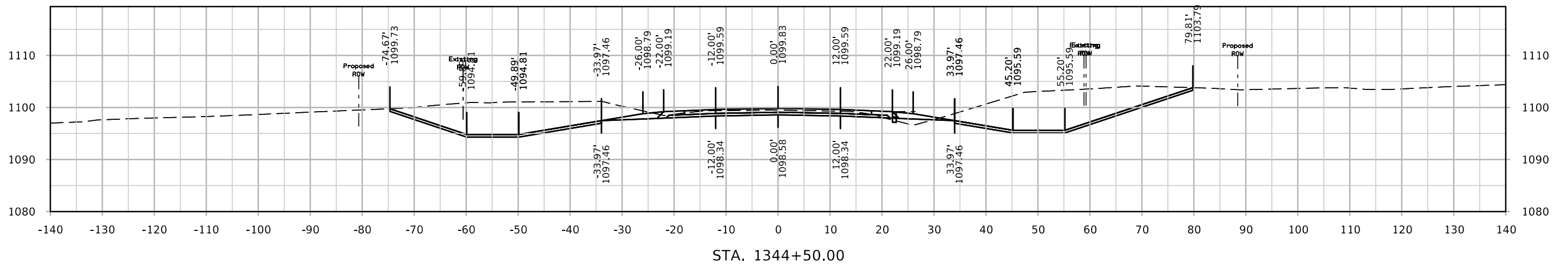
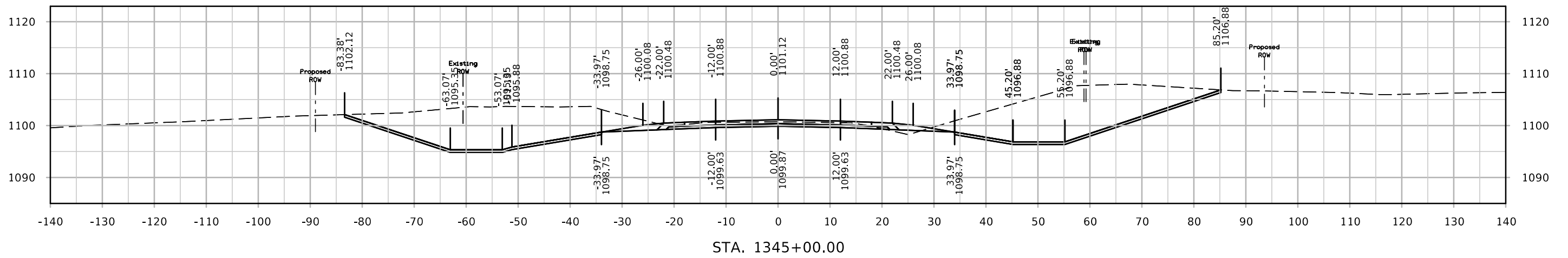




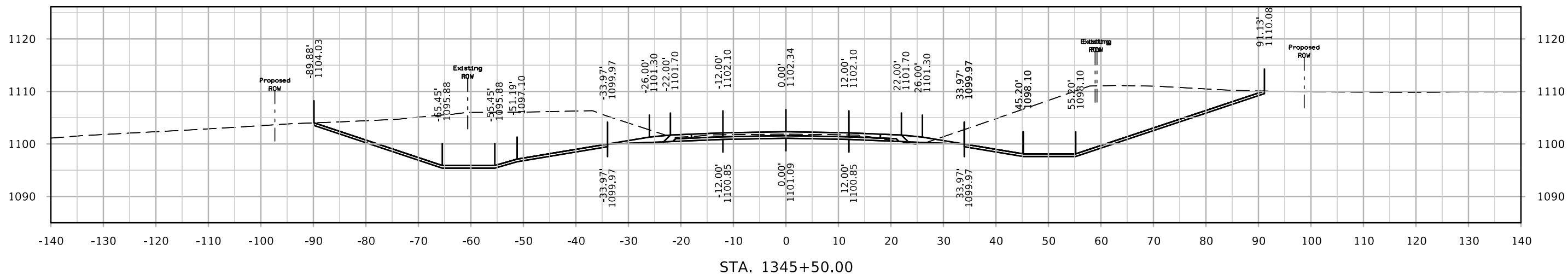
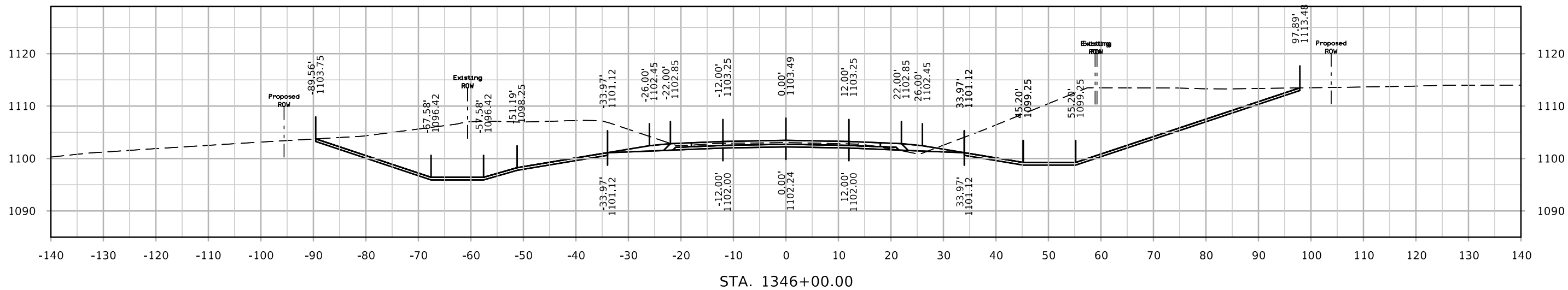
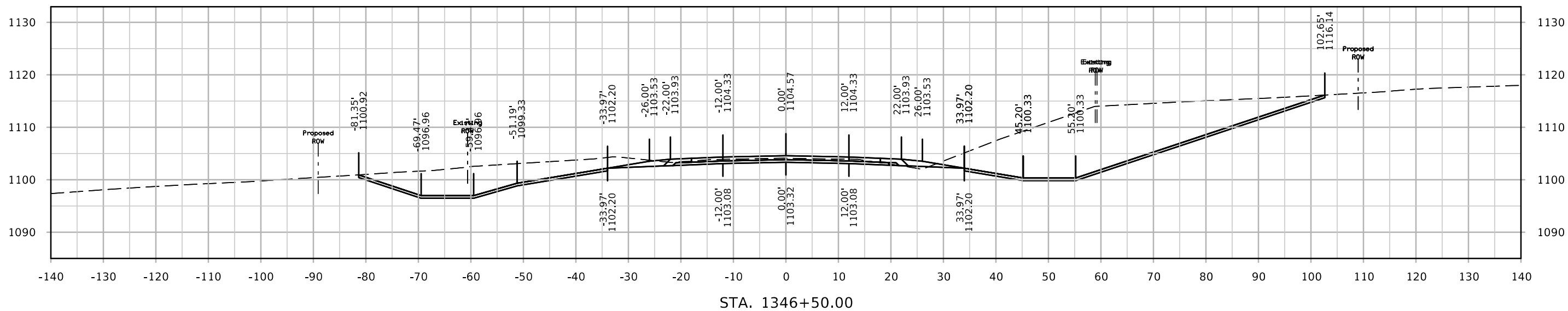


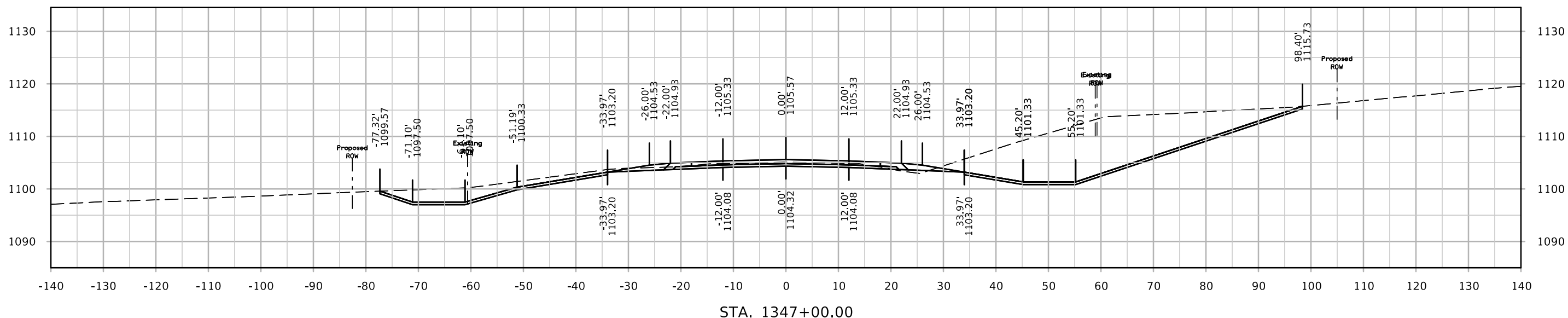
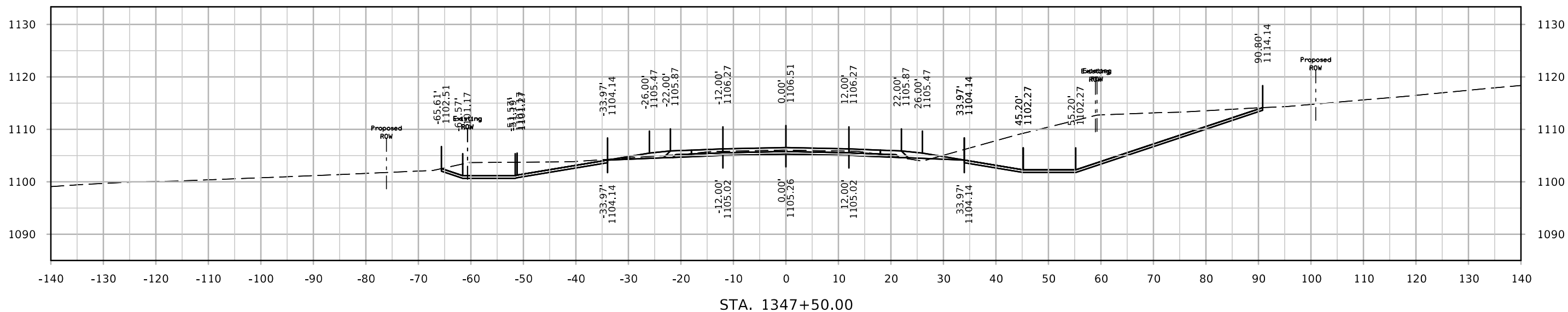




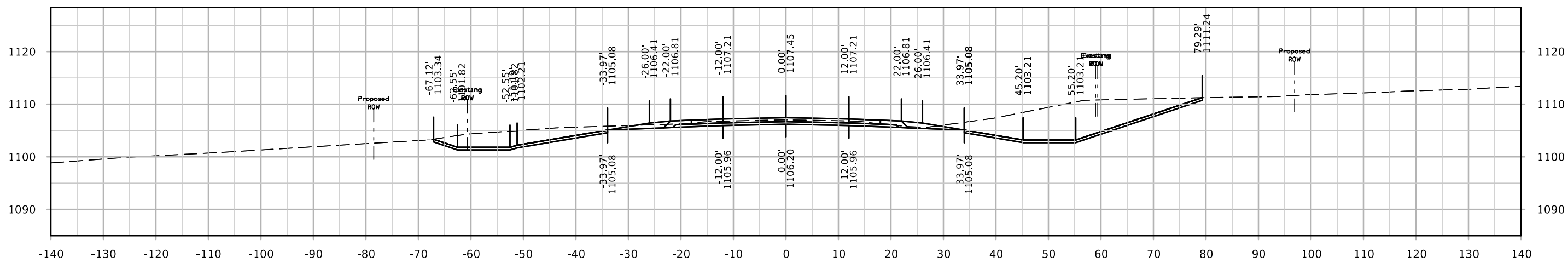
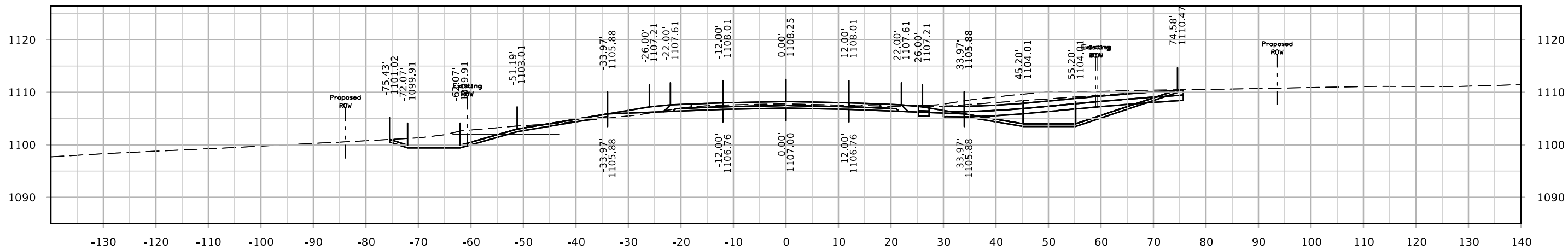
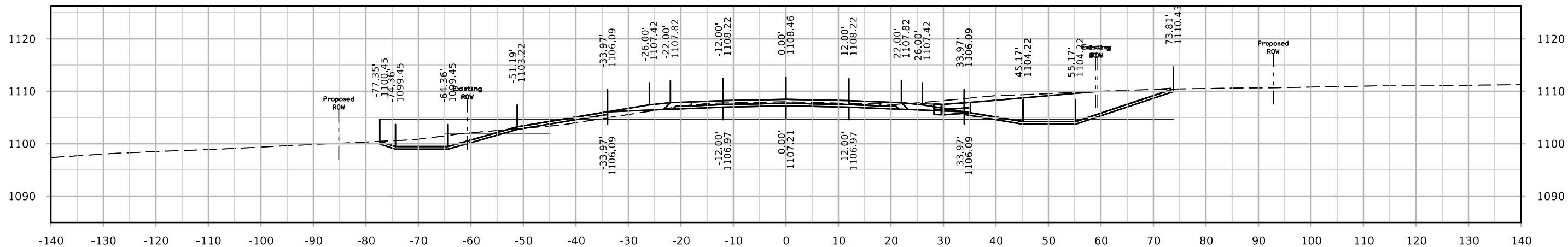


IA 13

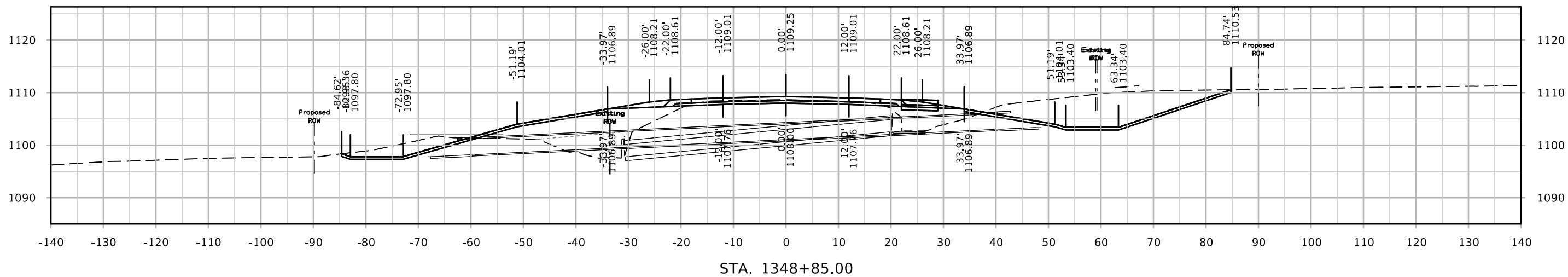
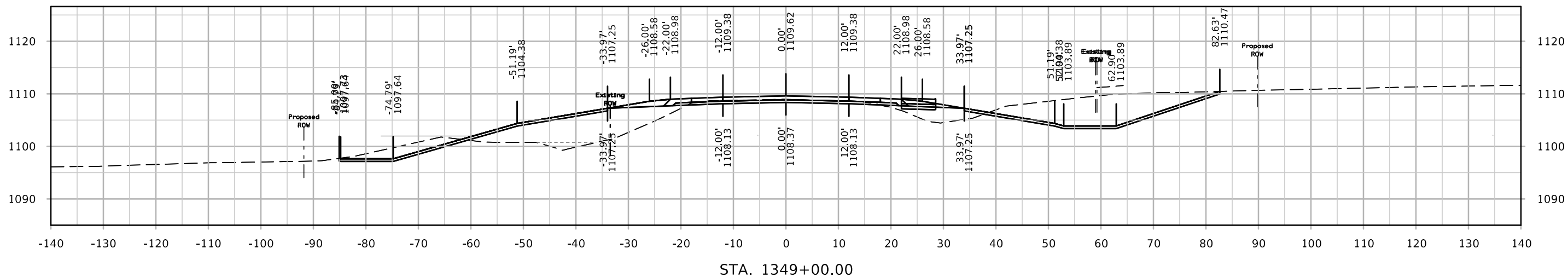
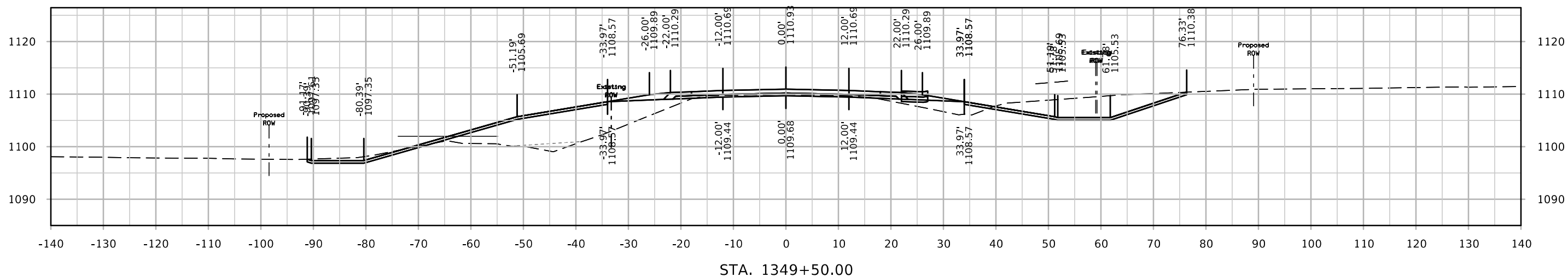


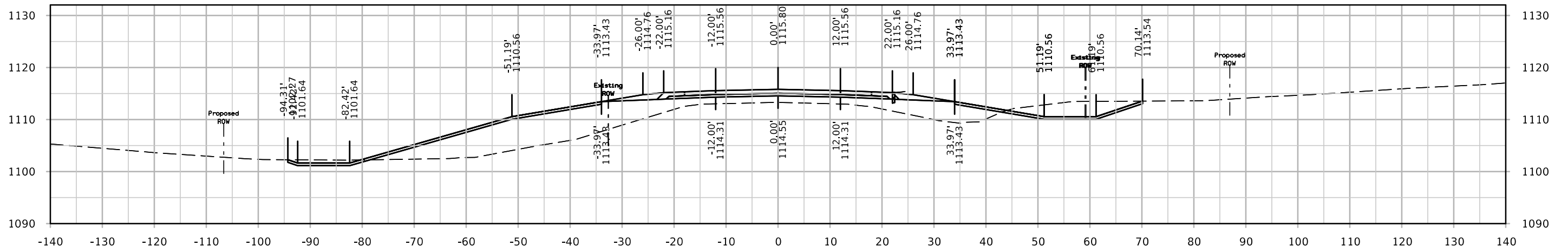


IA 13

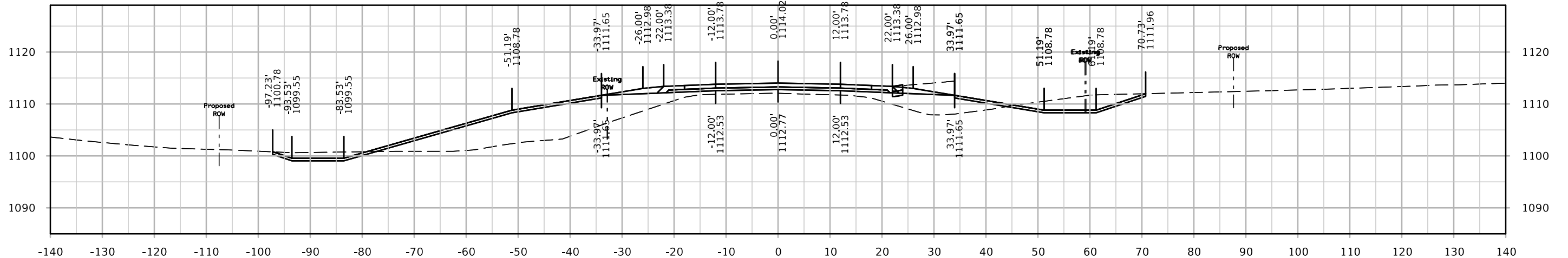


IA 13

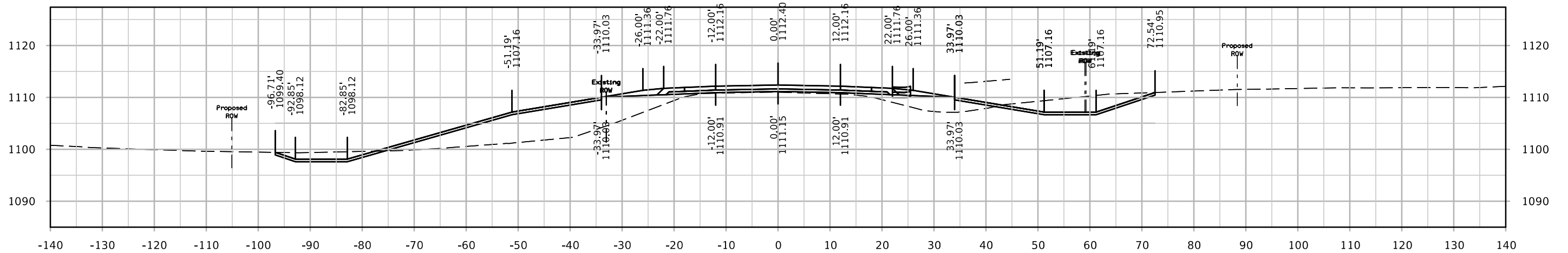




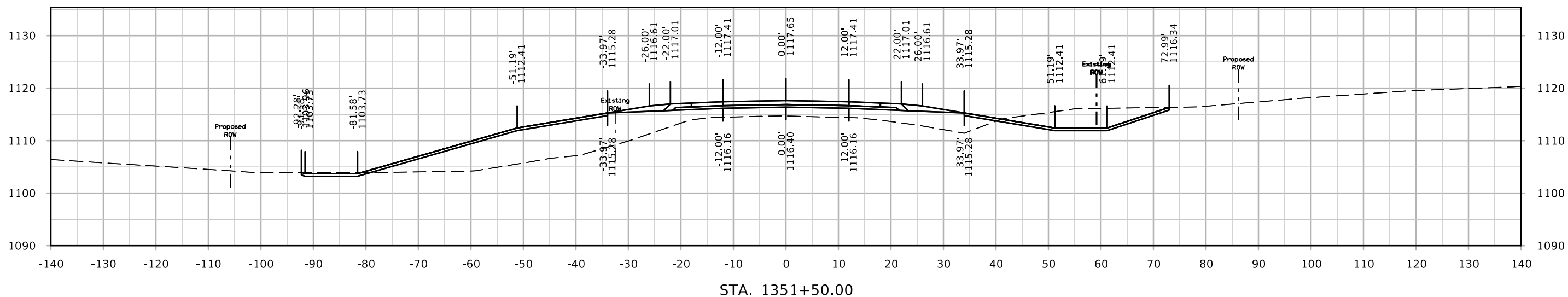
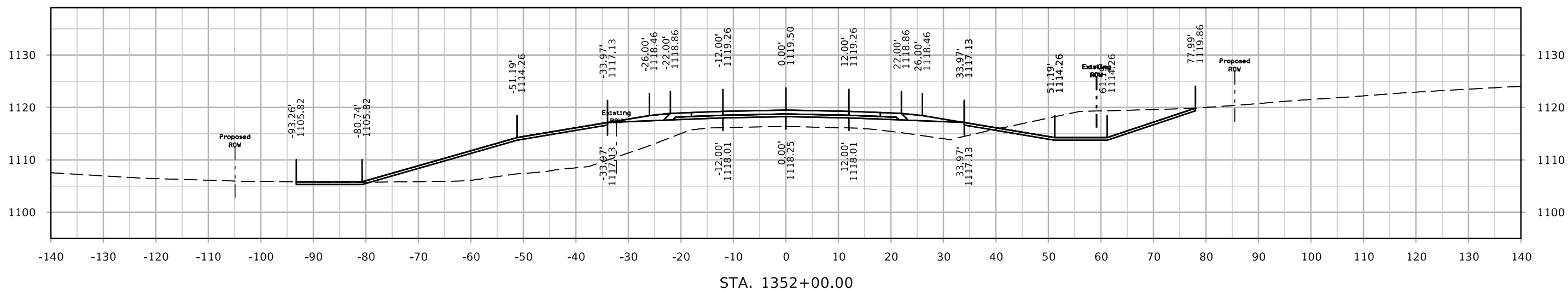
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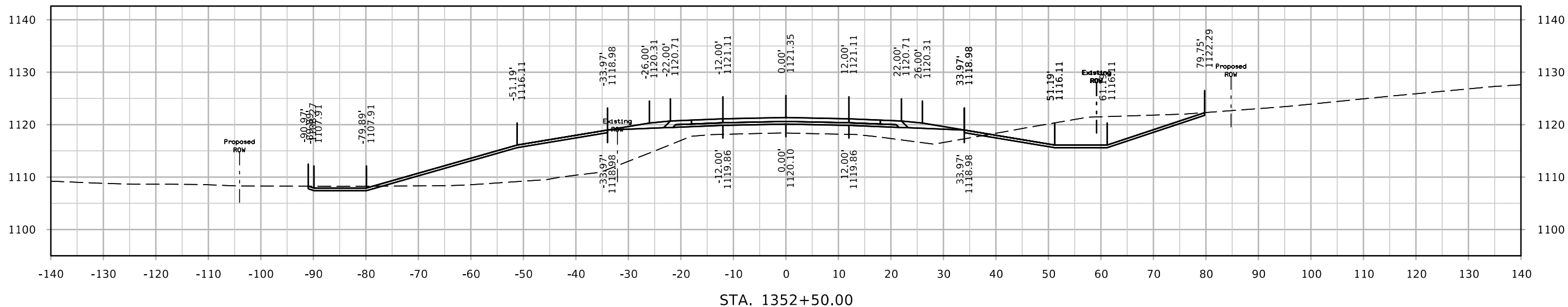
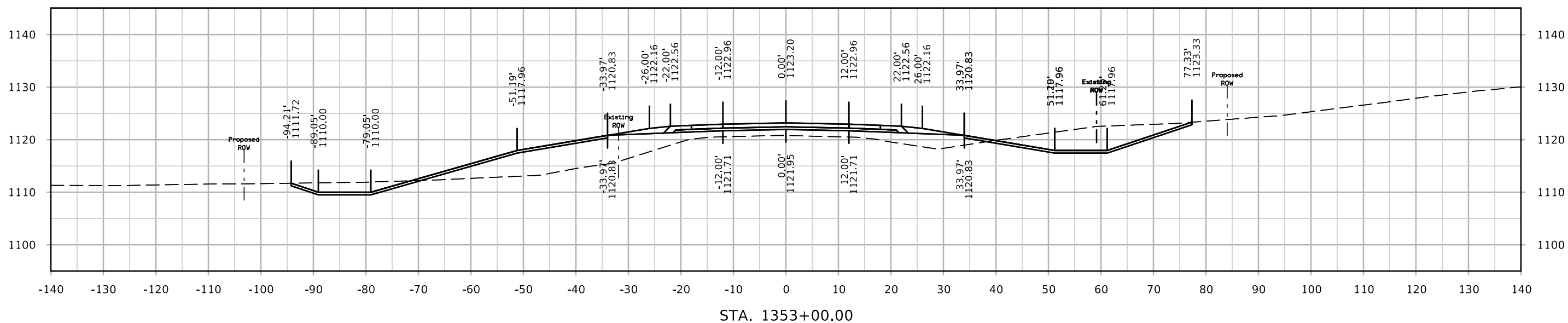


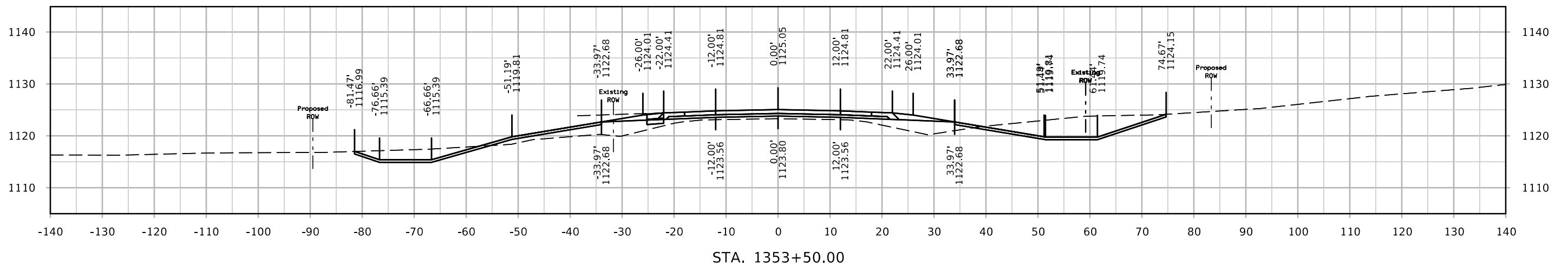
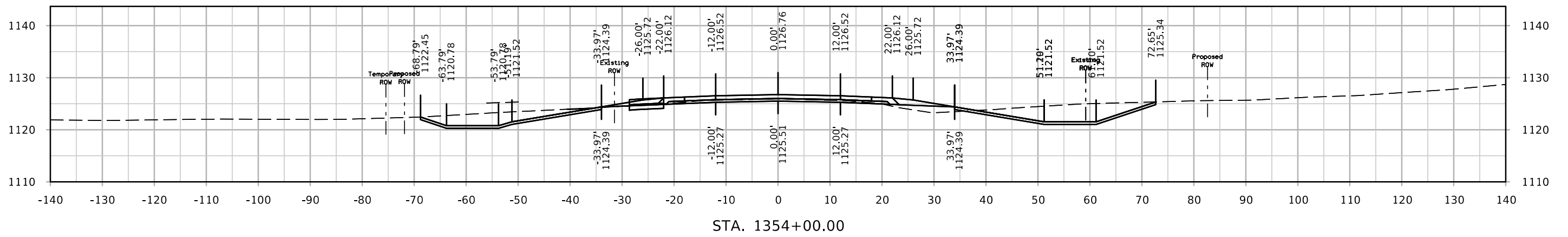
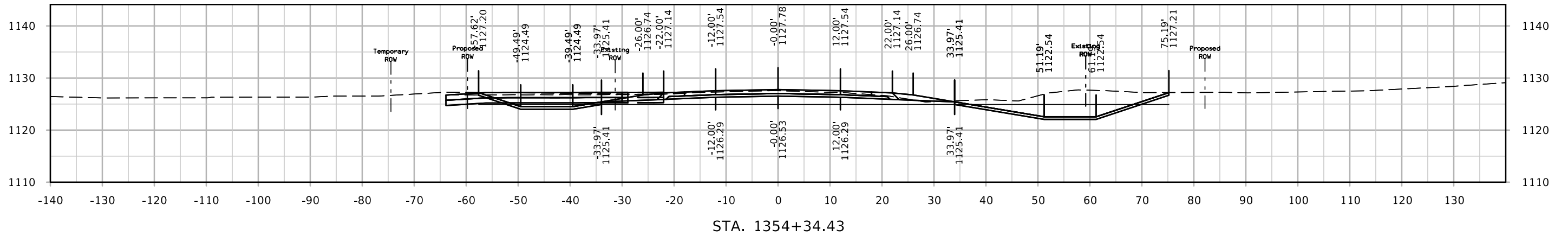
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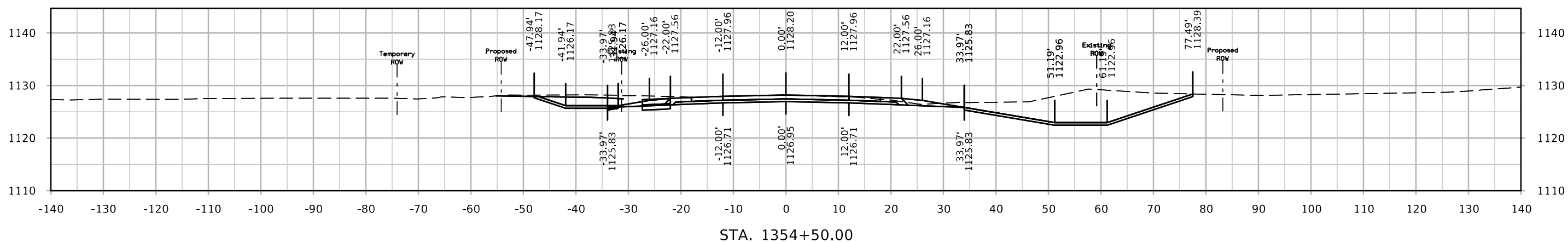
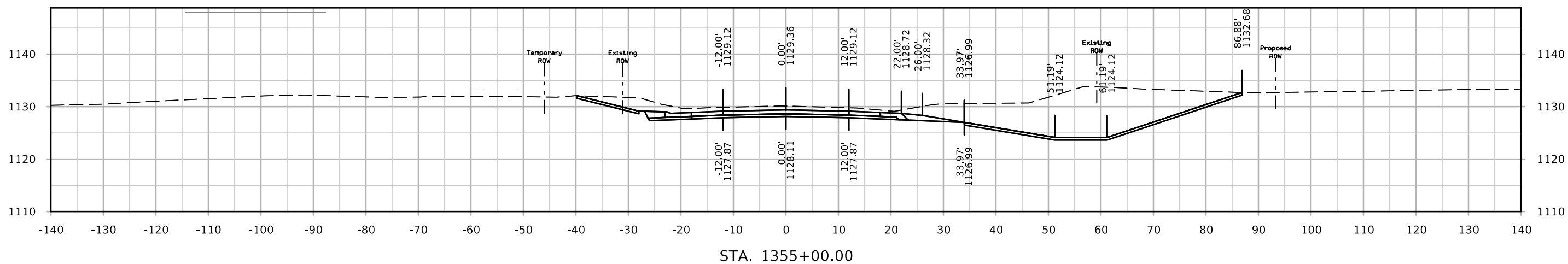
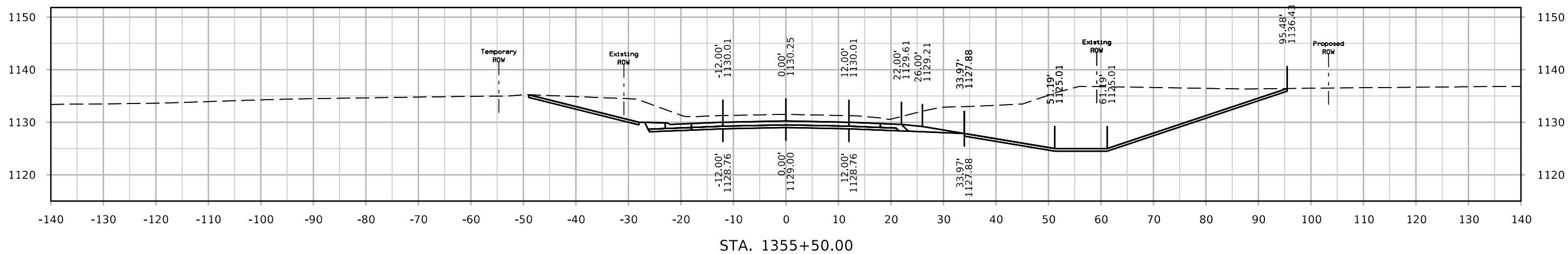


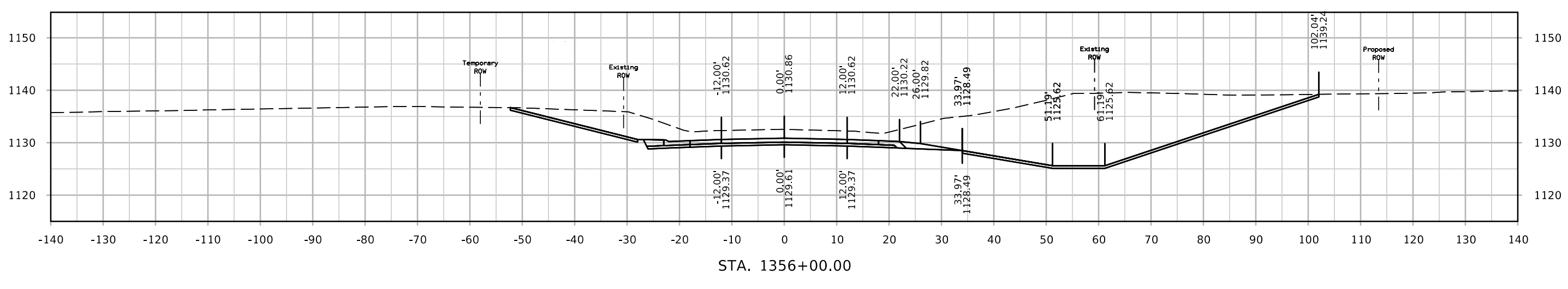
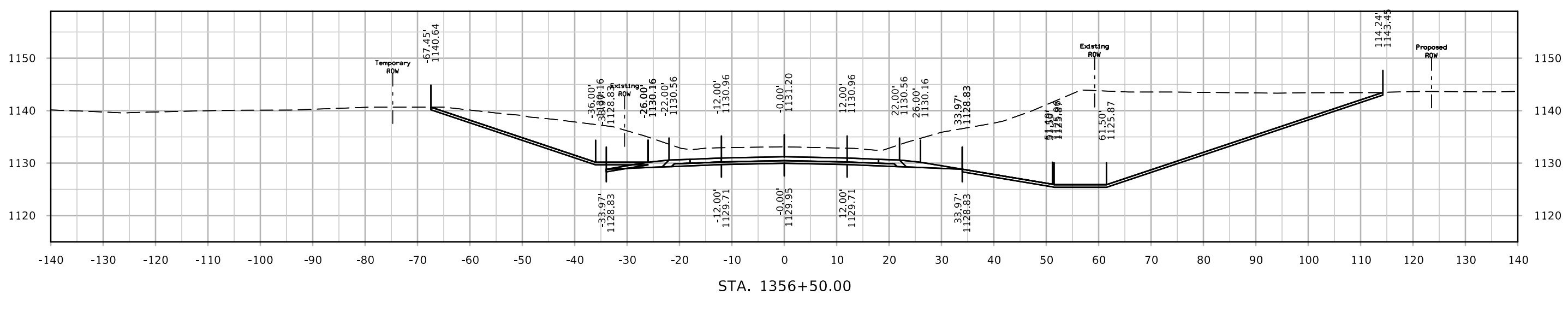
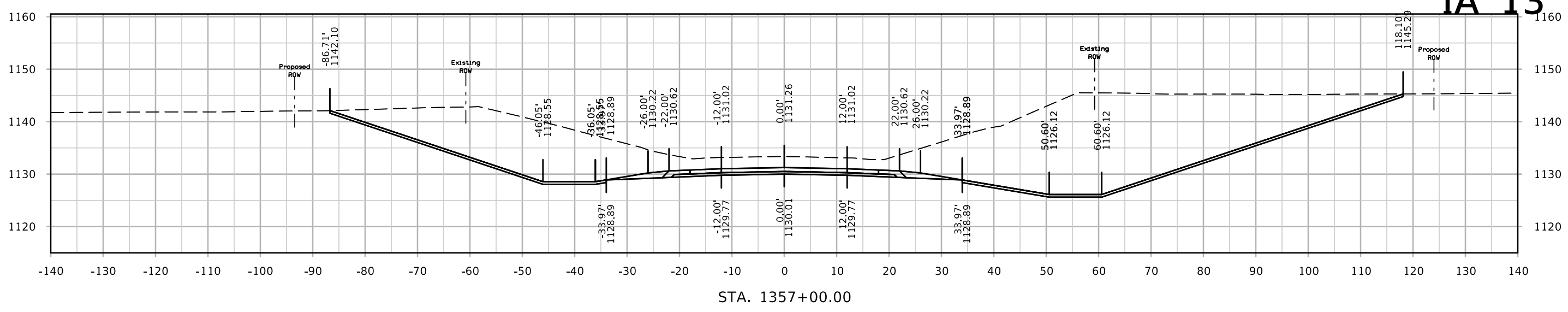
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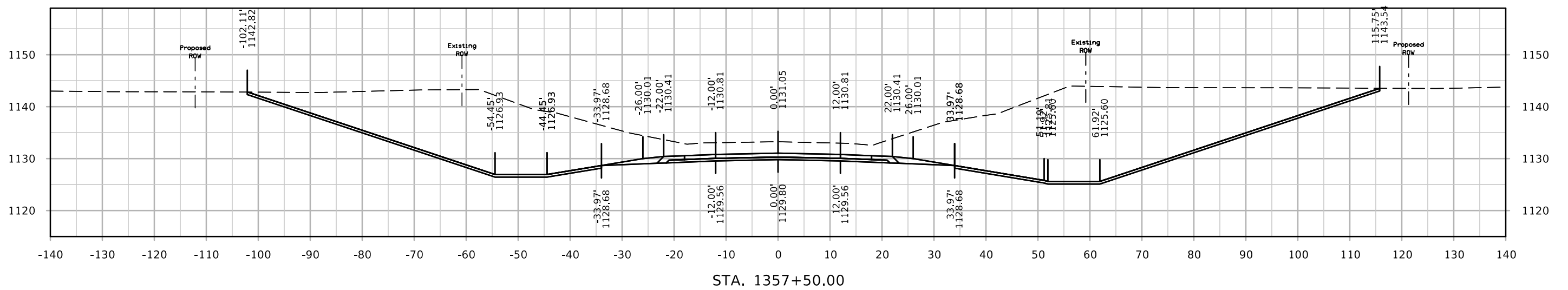
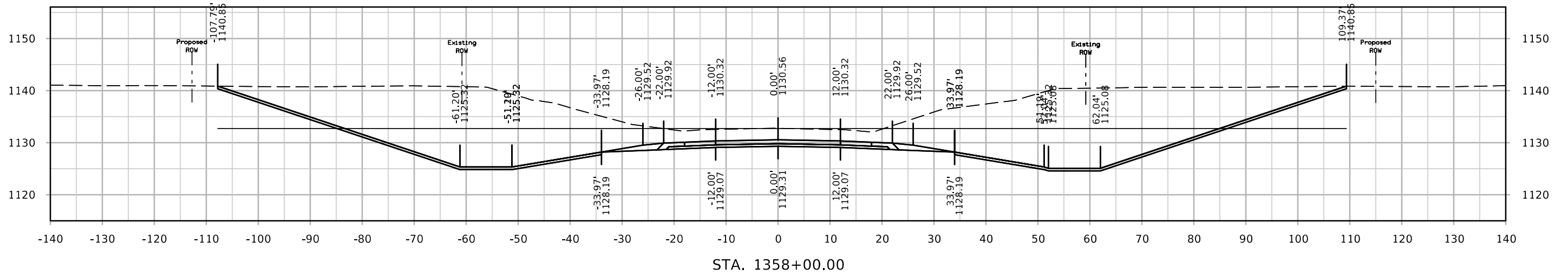
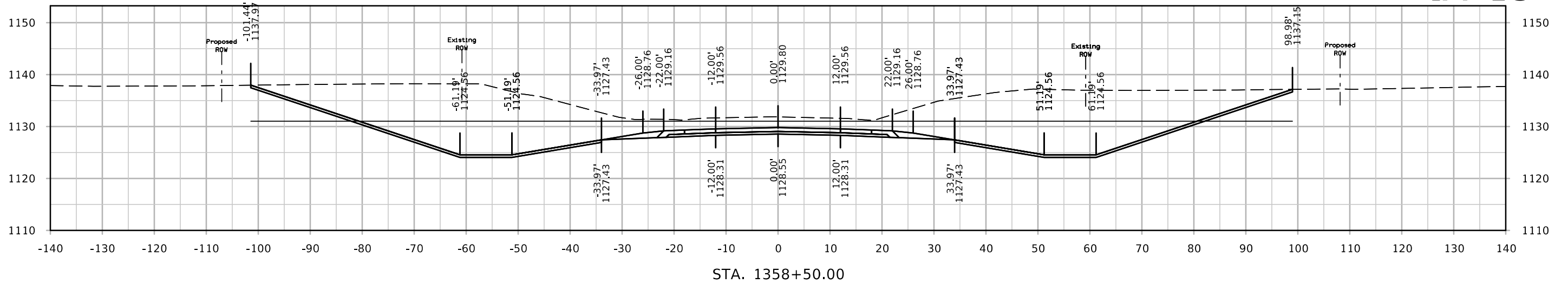


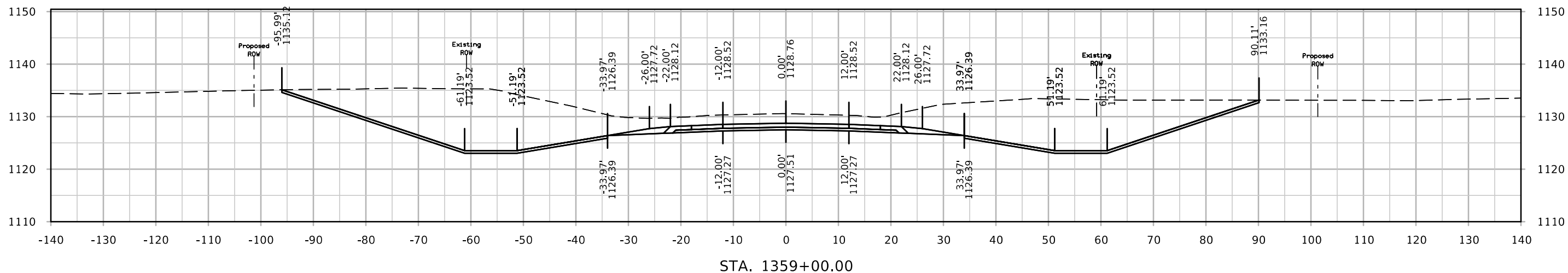
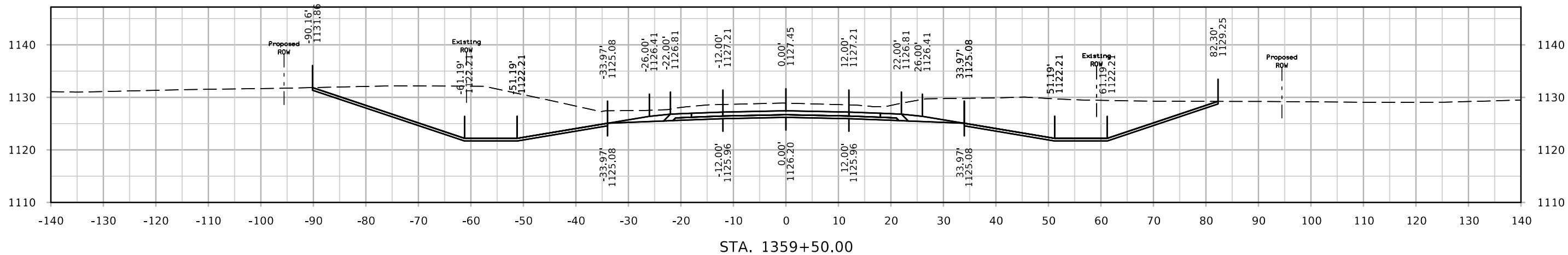
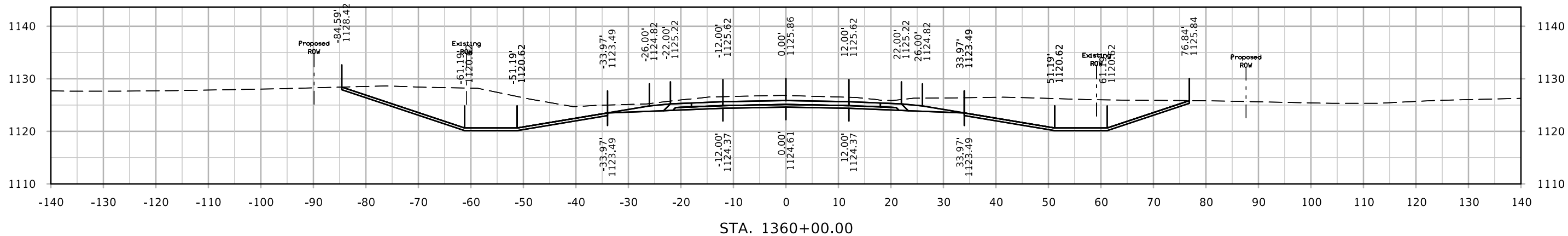


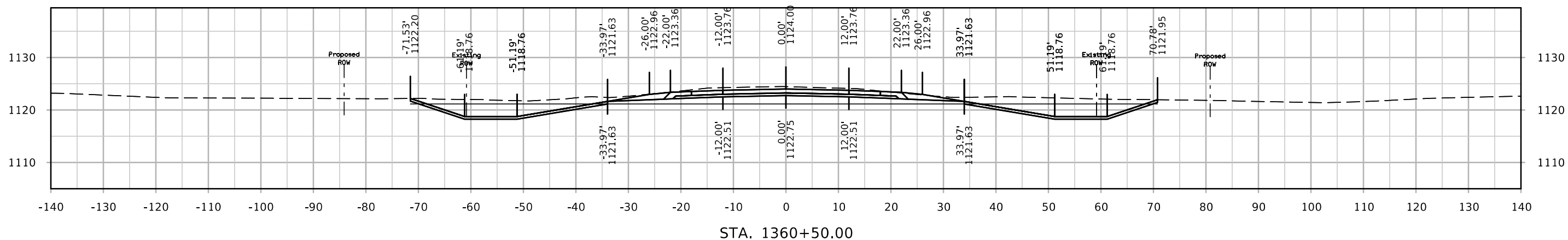
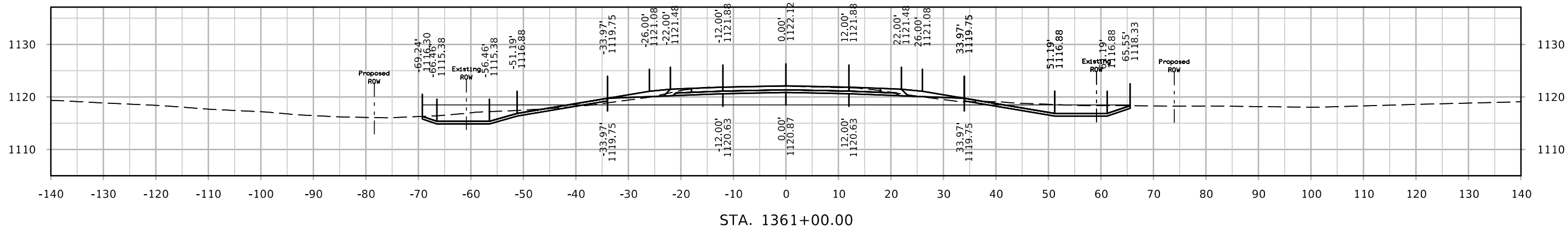
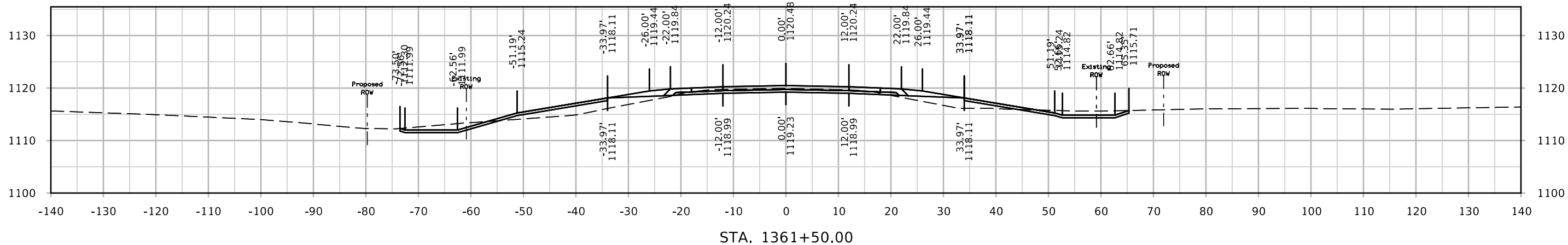


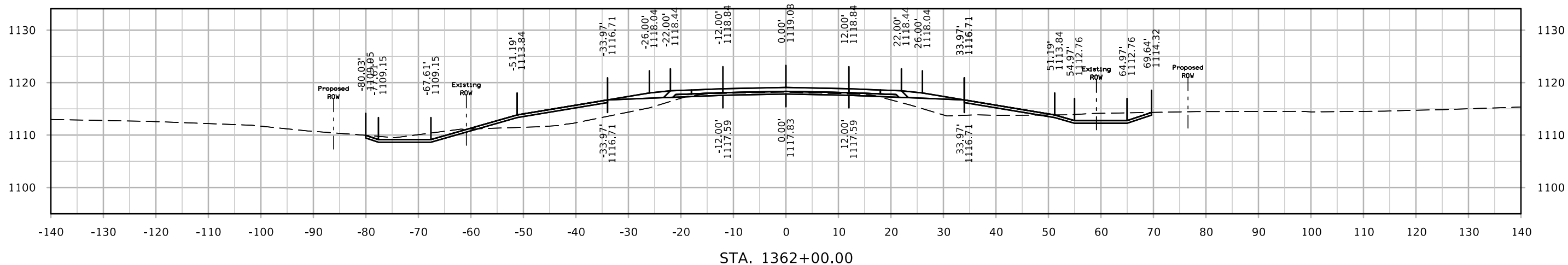
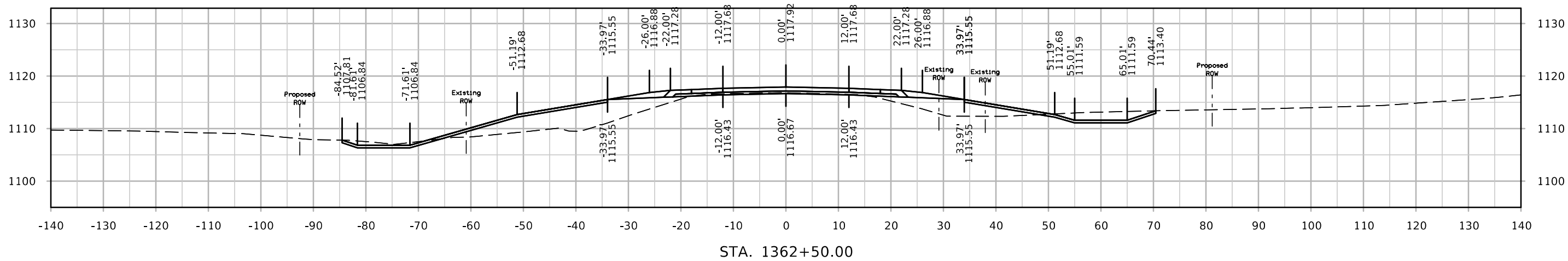
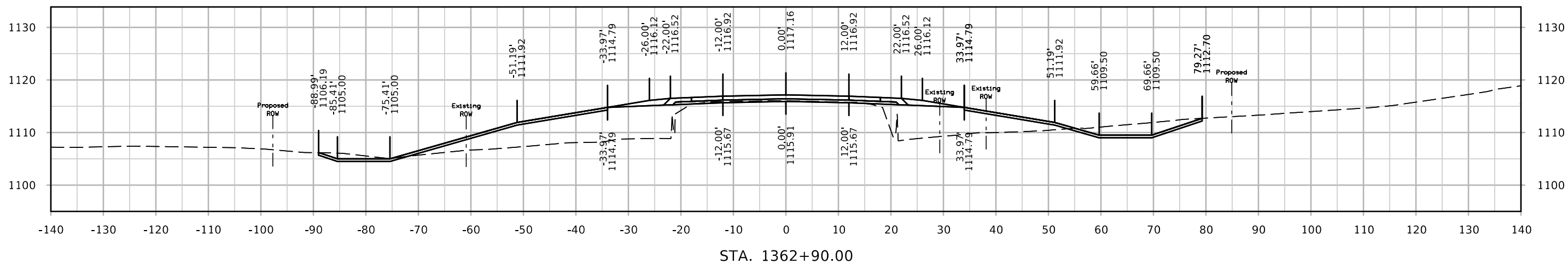


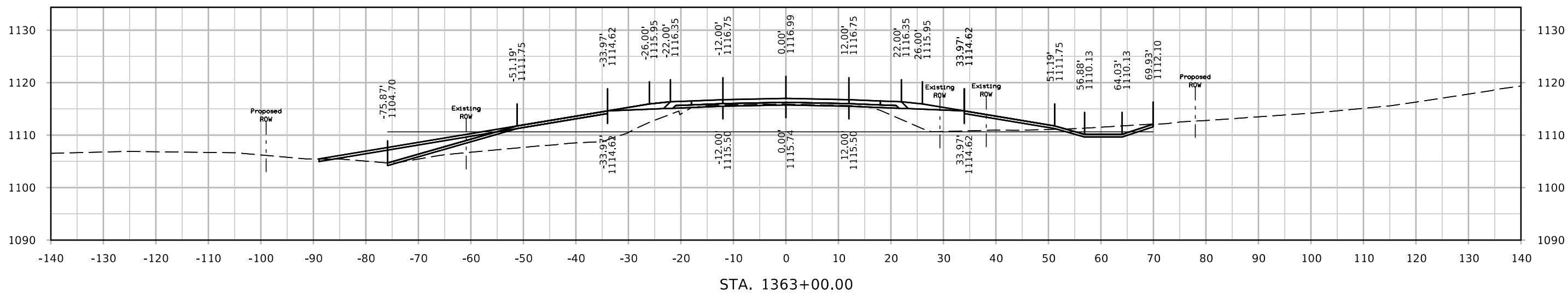
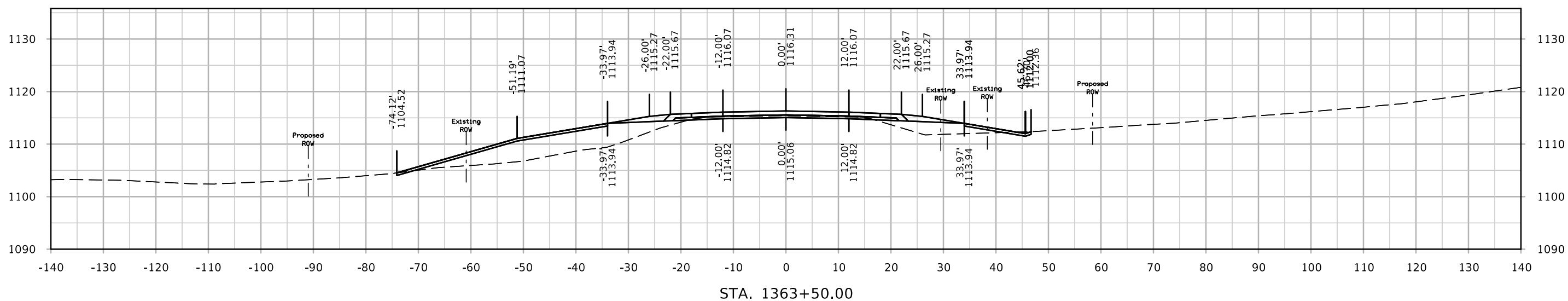


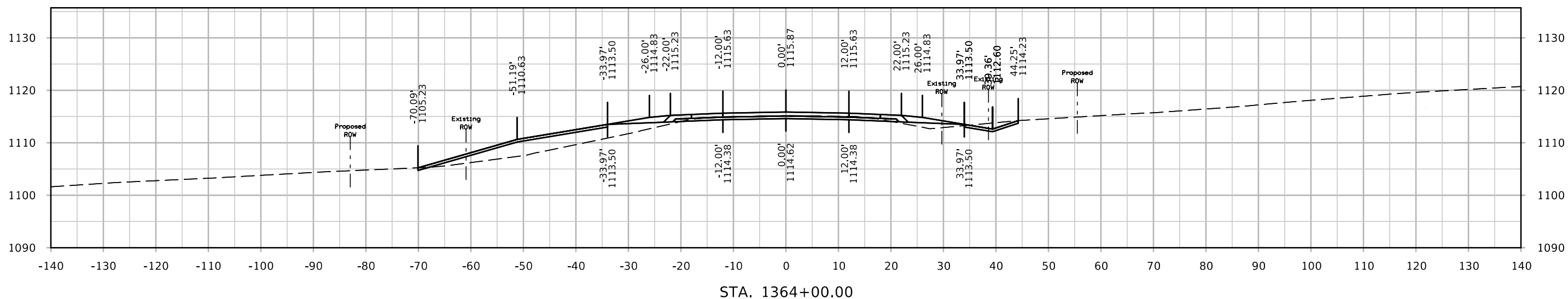
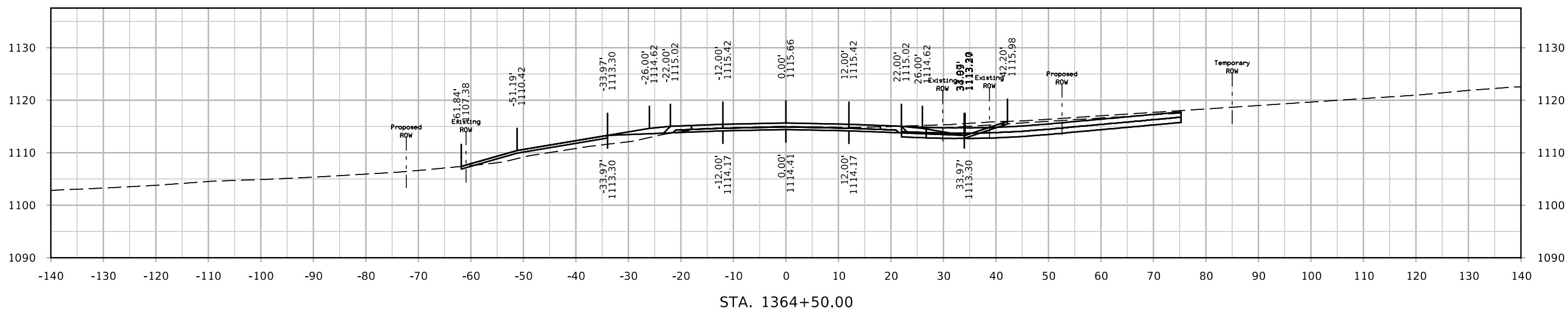


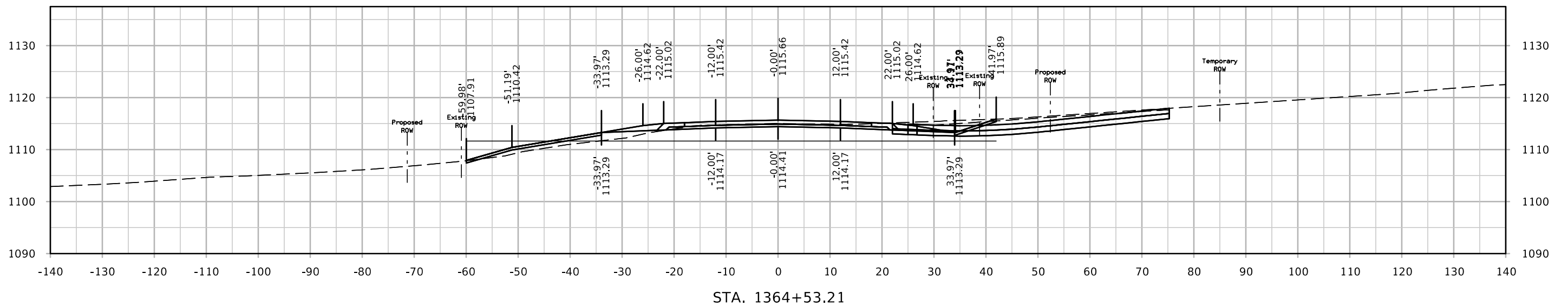
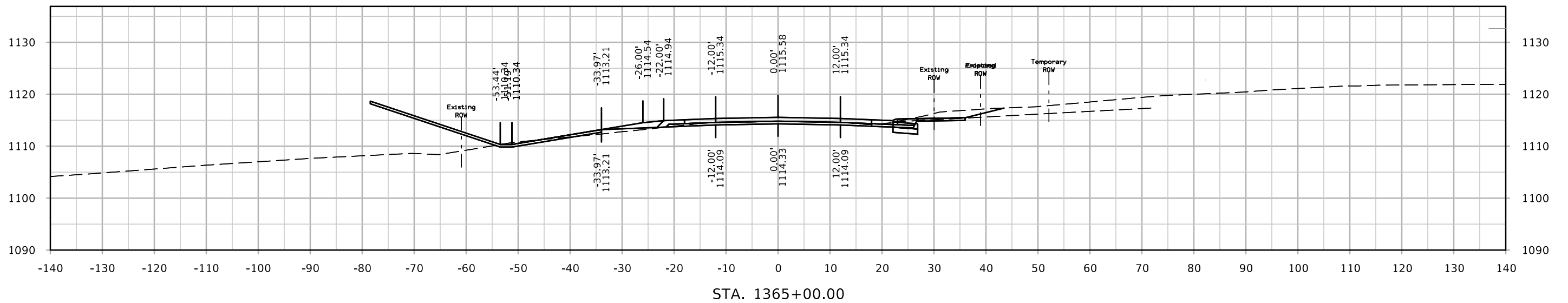


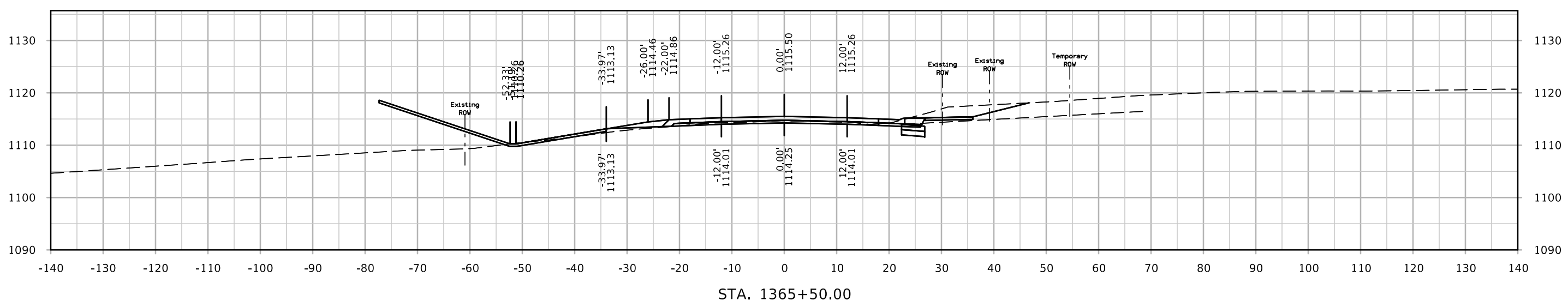
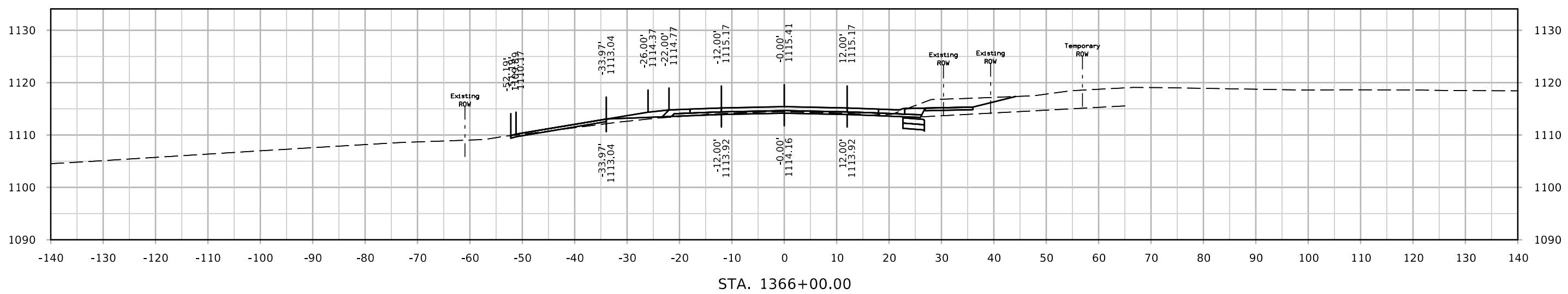
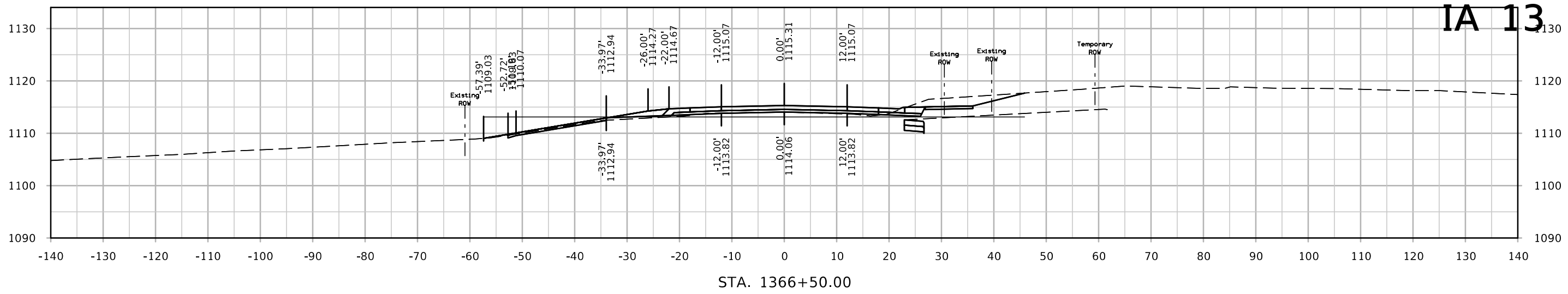


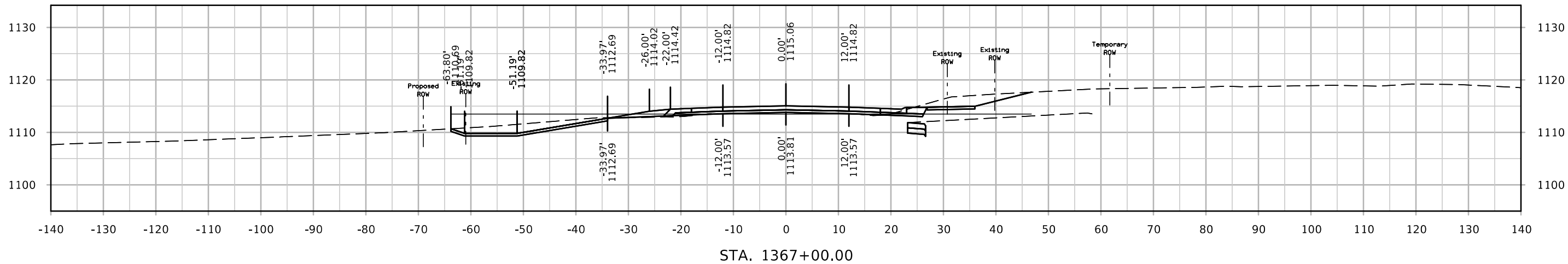
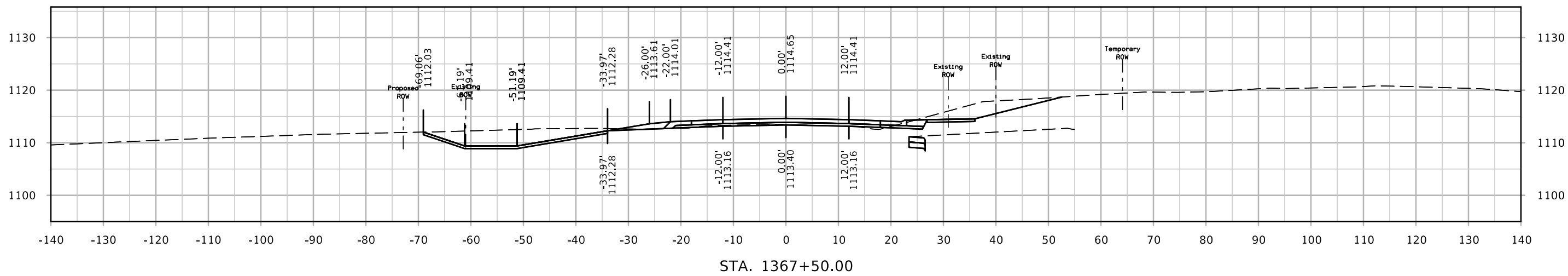
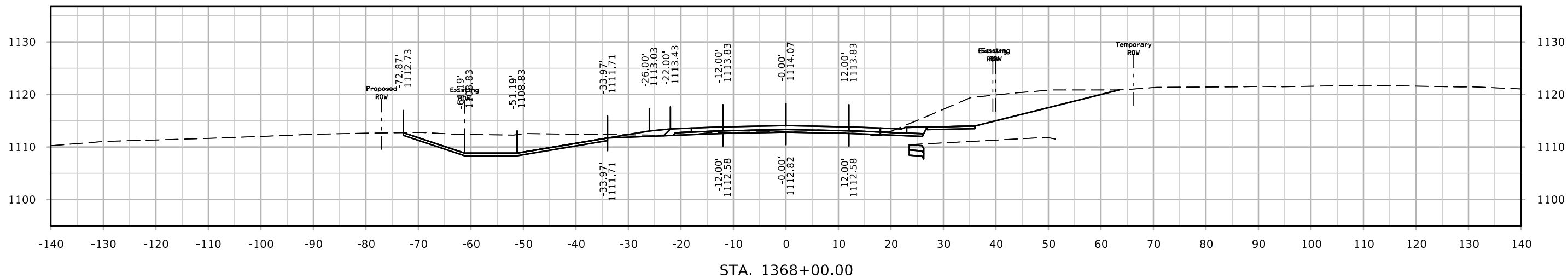


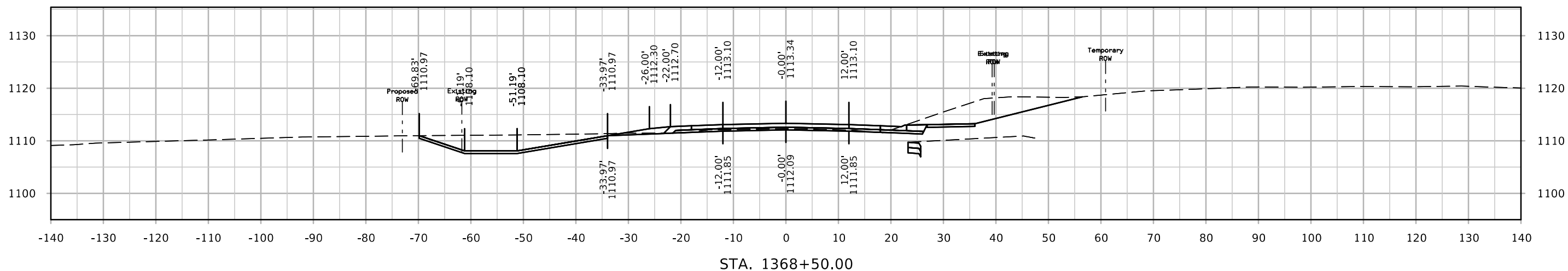
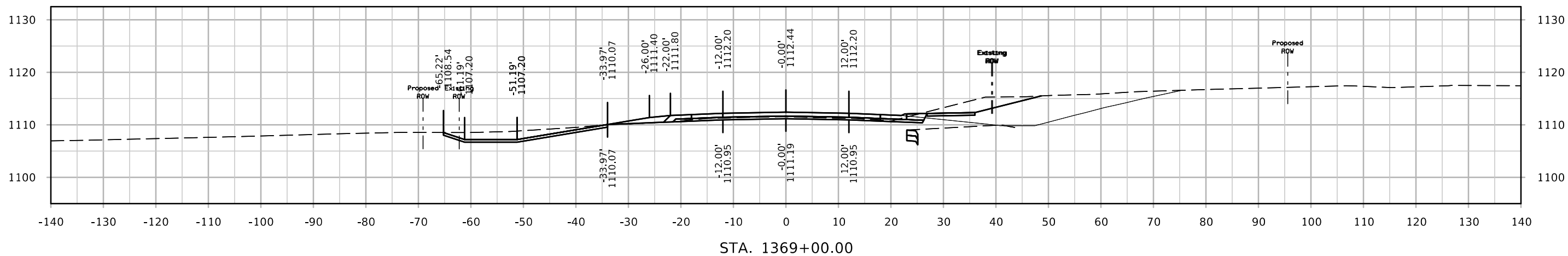
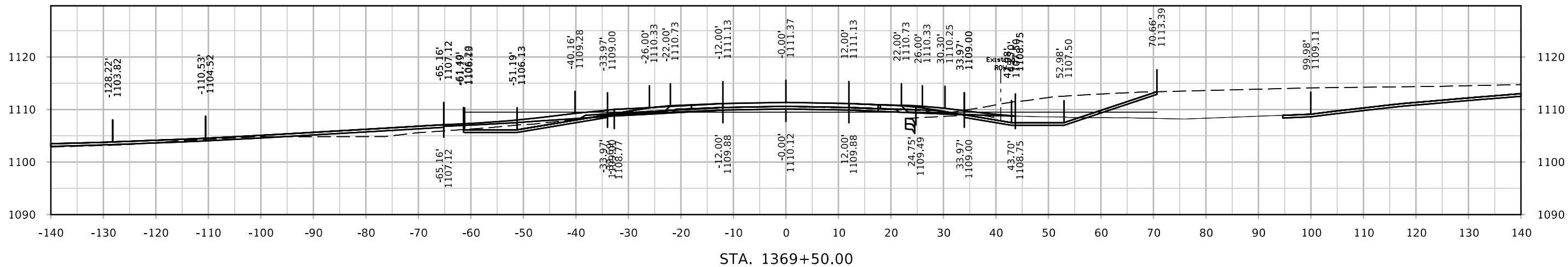


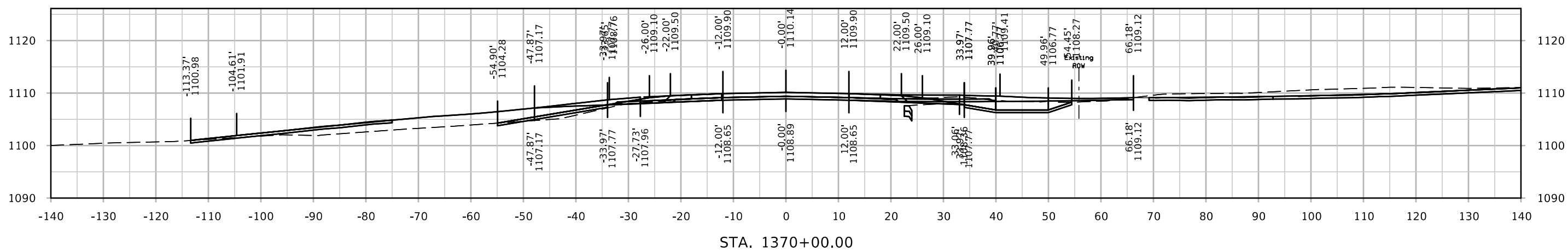
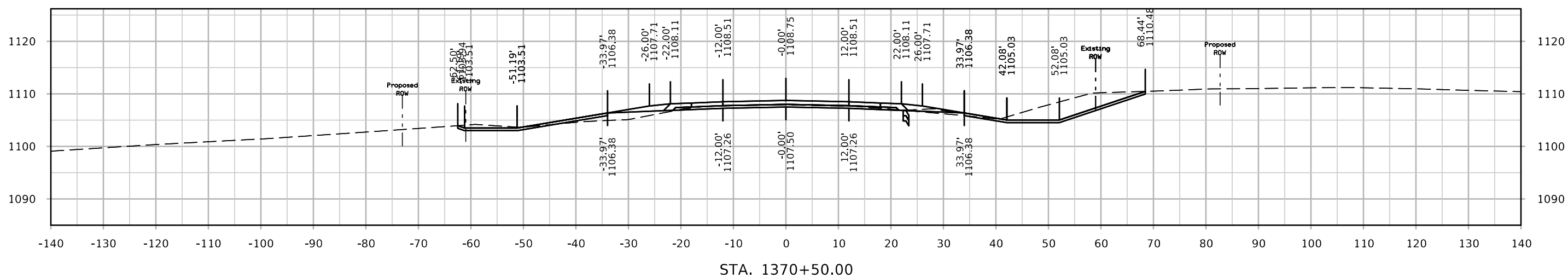
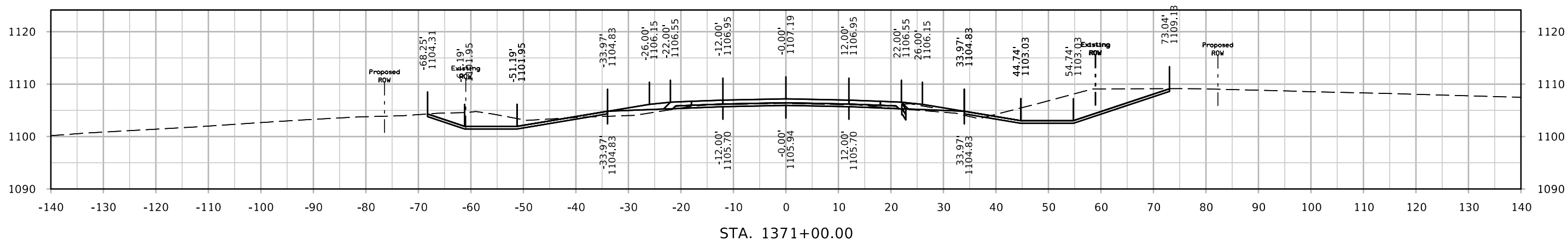


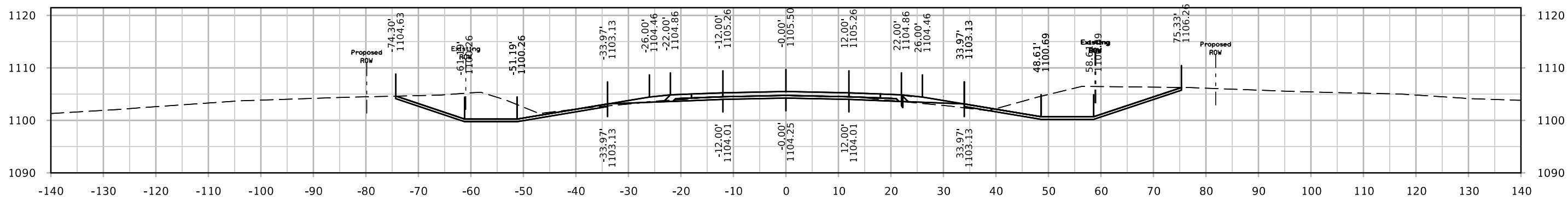
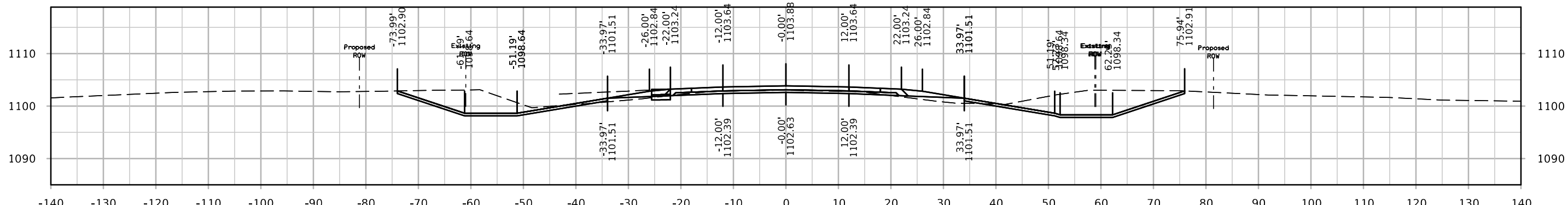
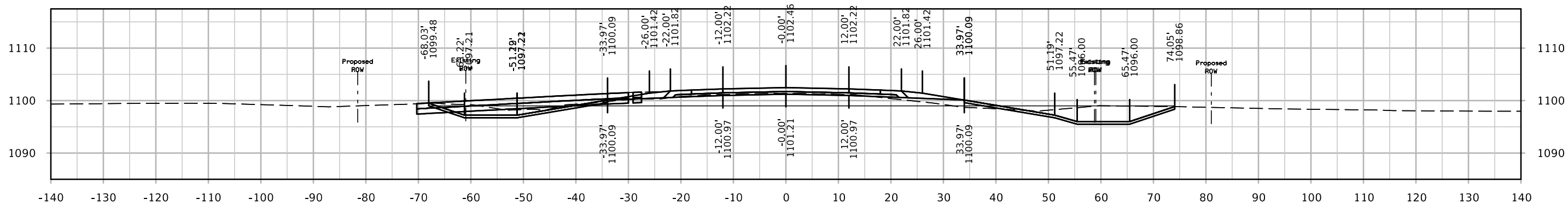


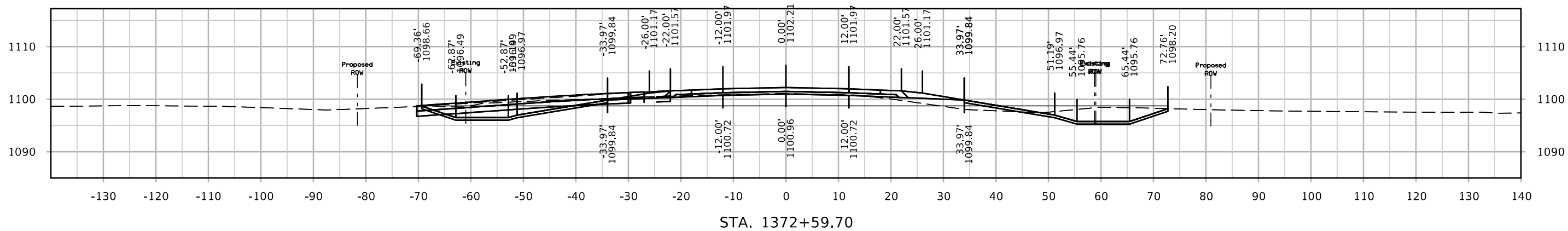
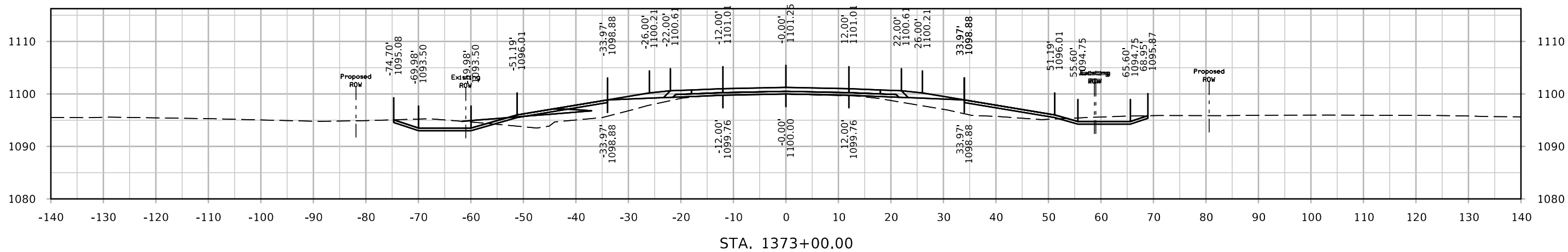
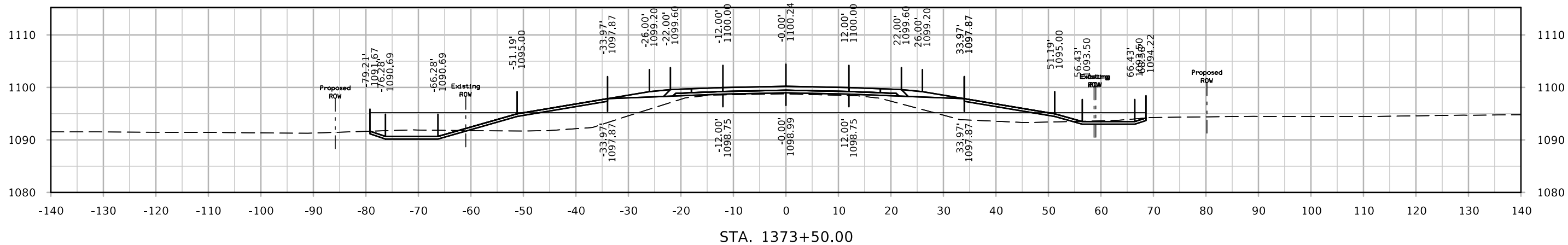


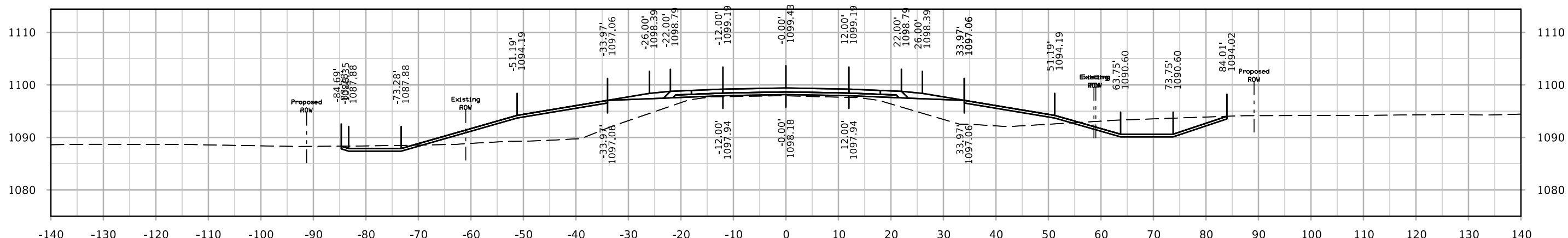
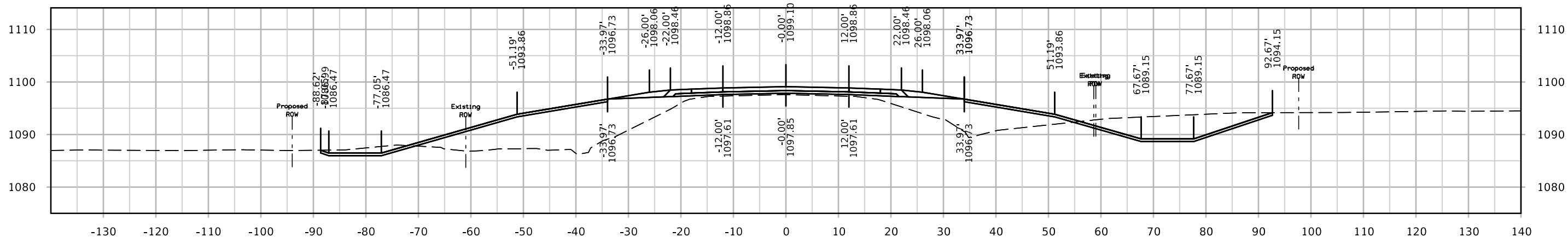
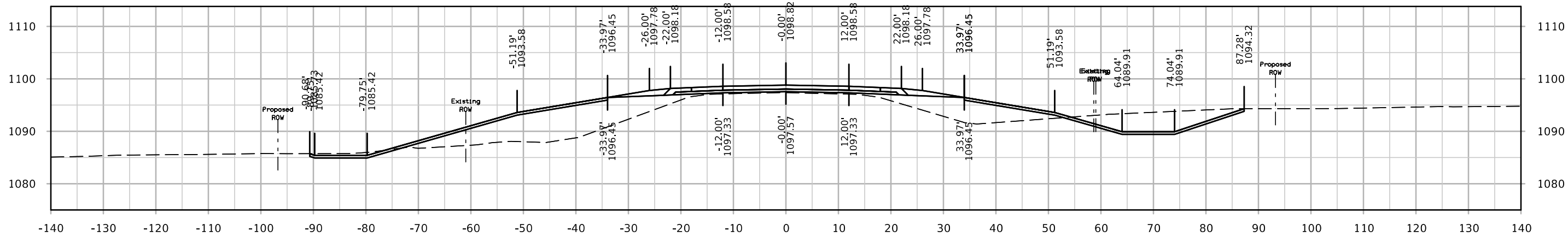


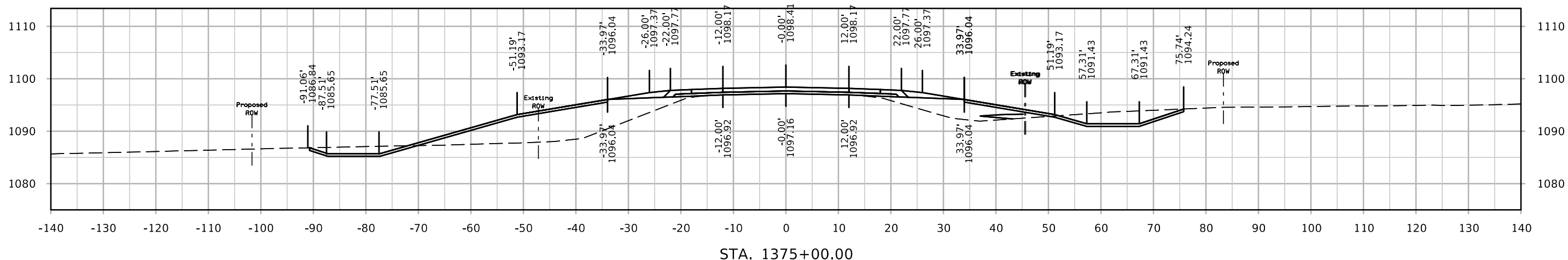
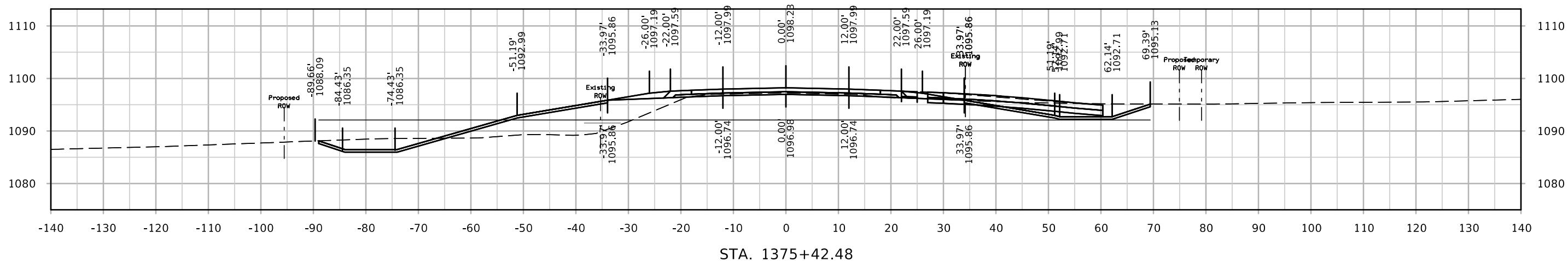
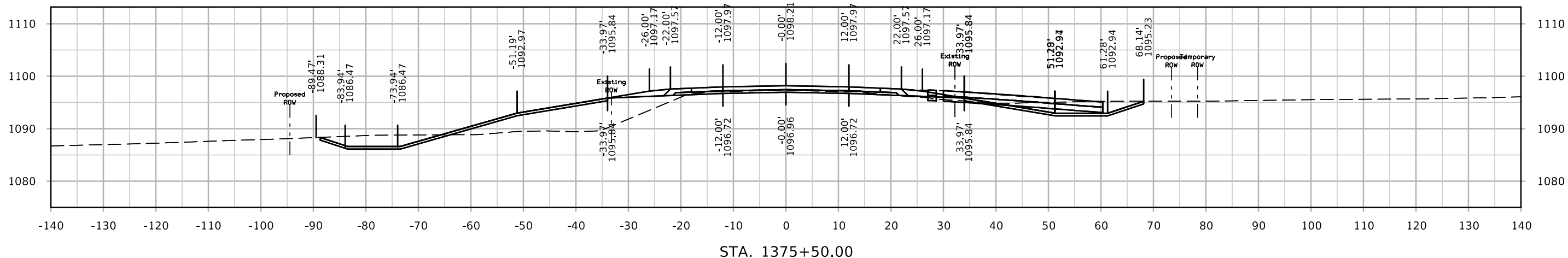


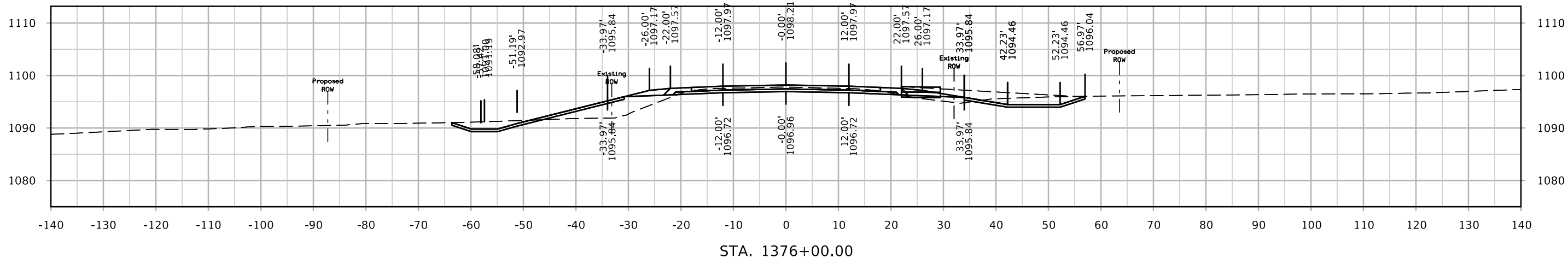
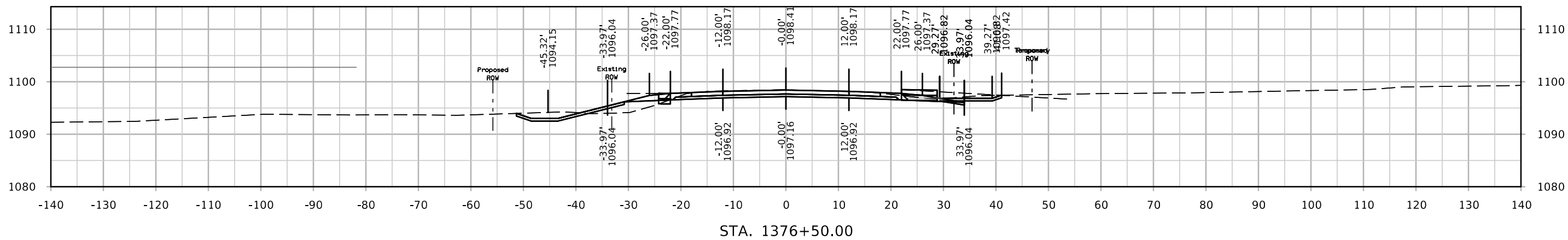
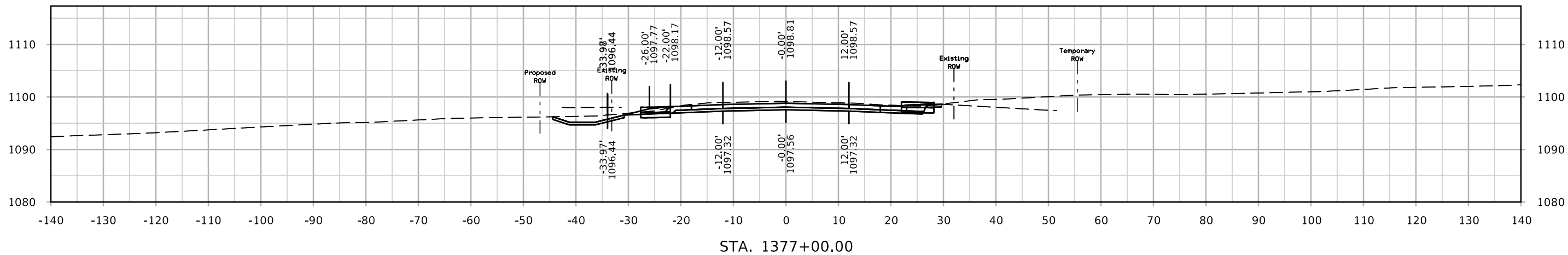


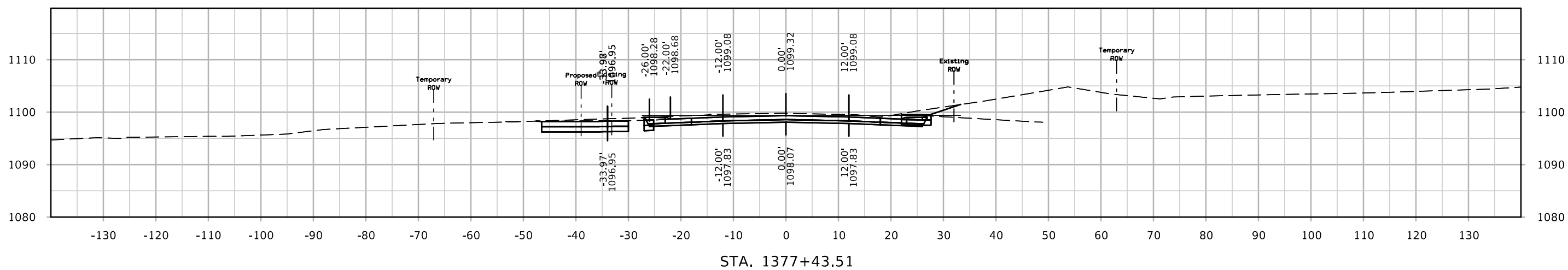
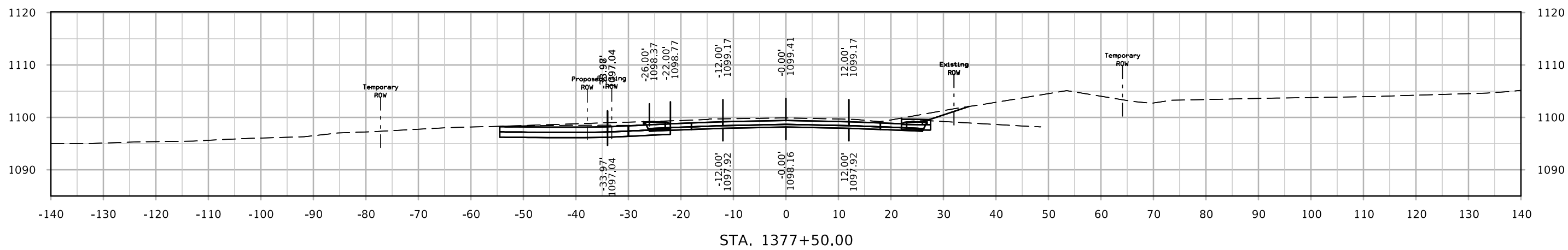
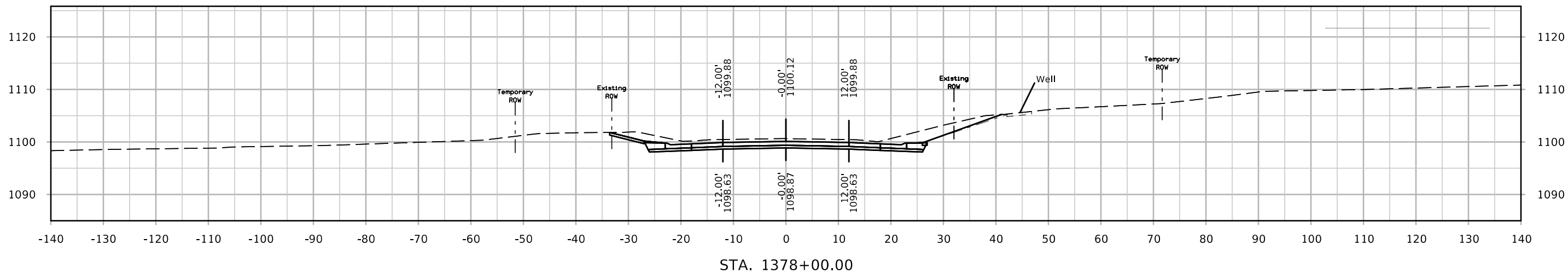


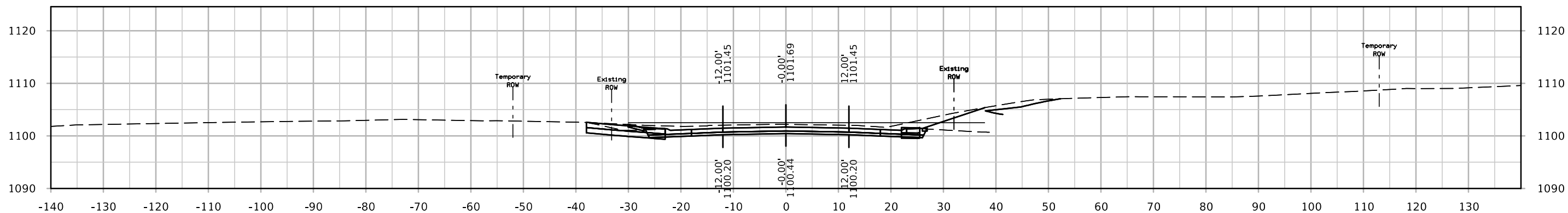




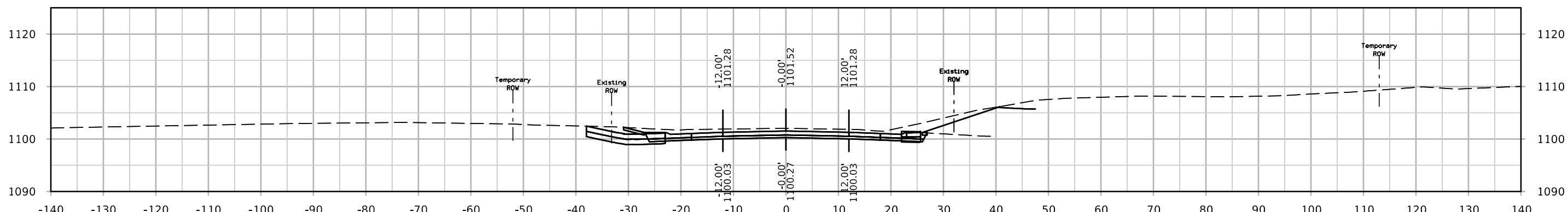




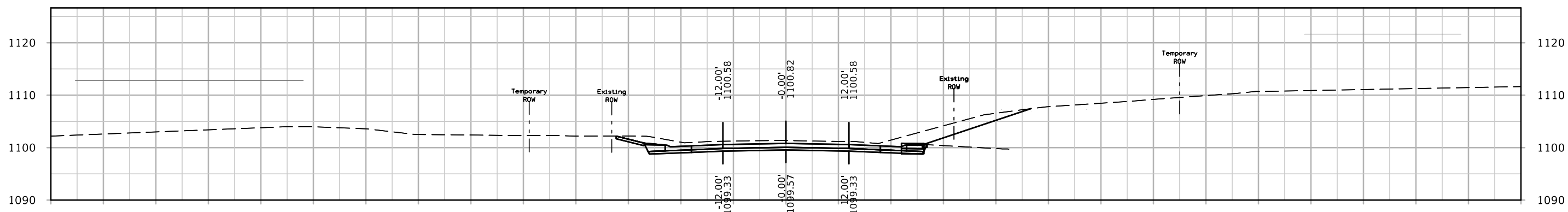




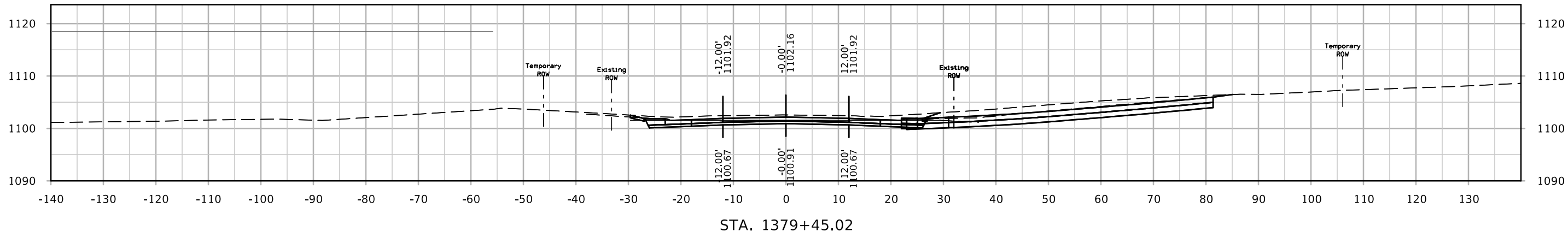
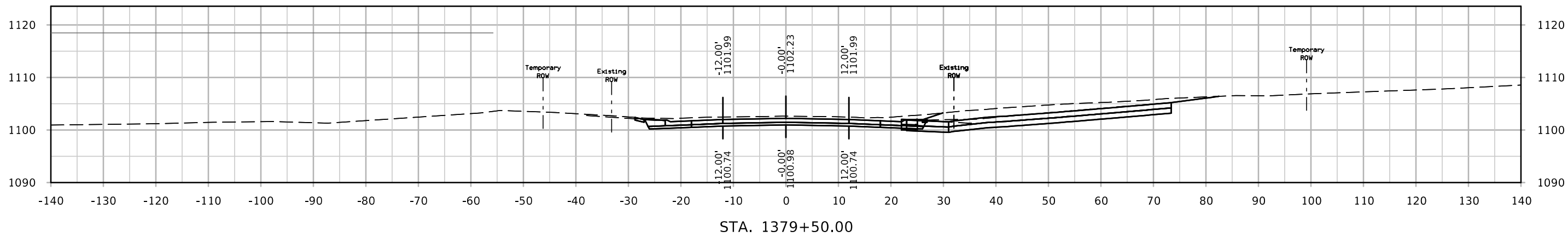
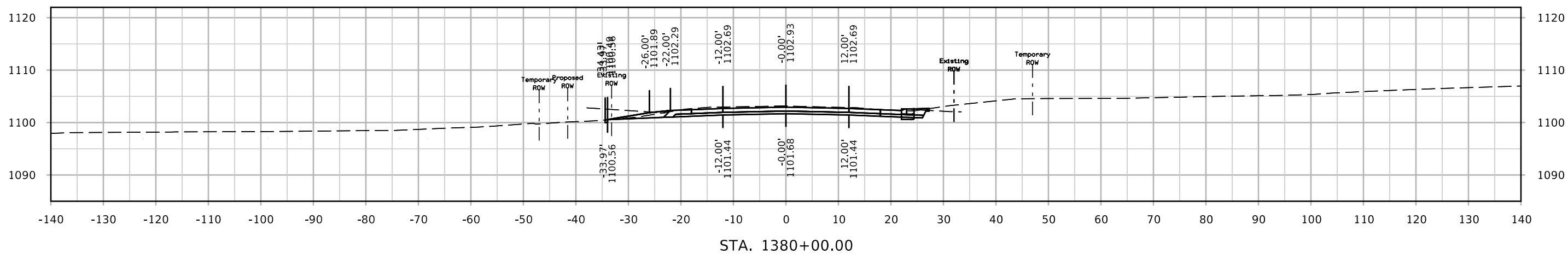
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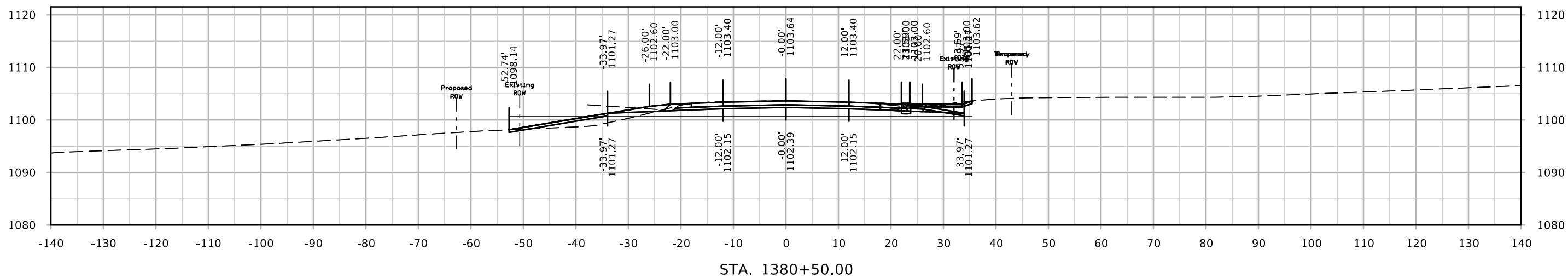
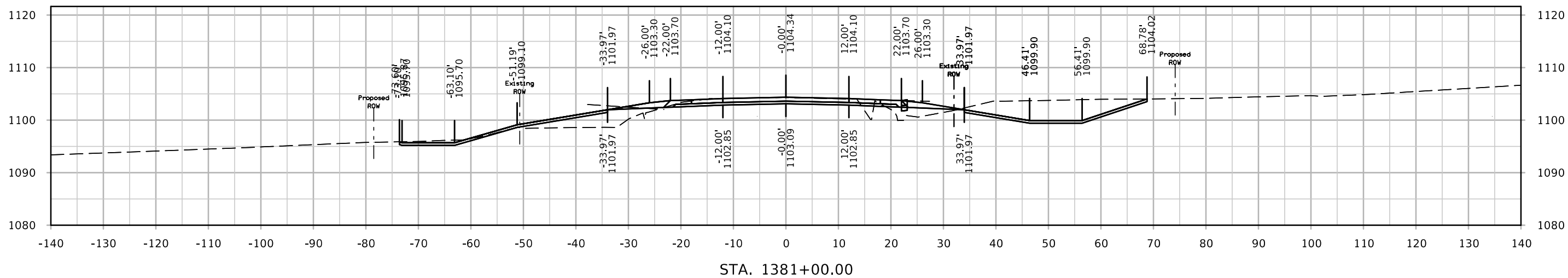
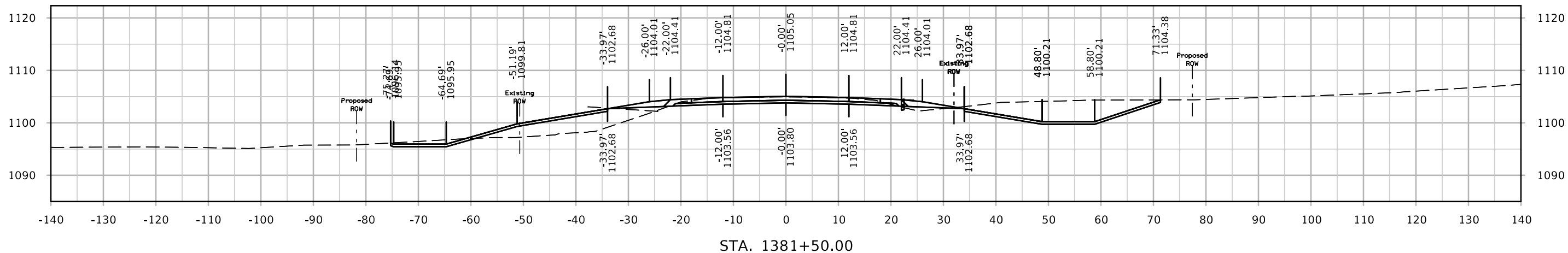
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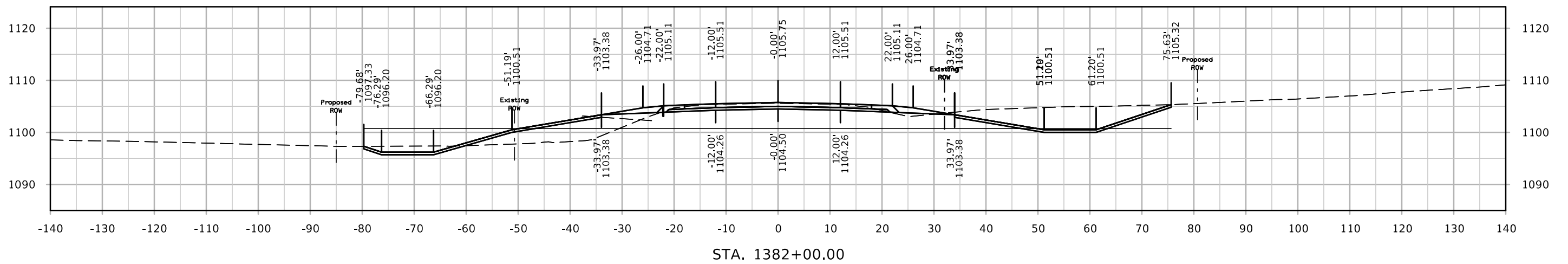
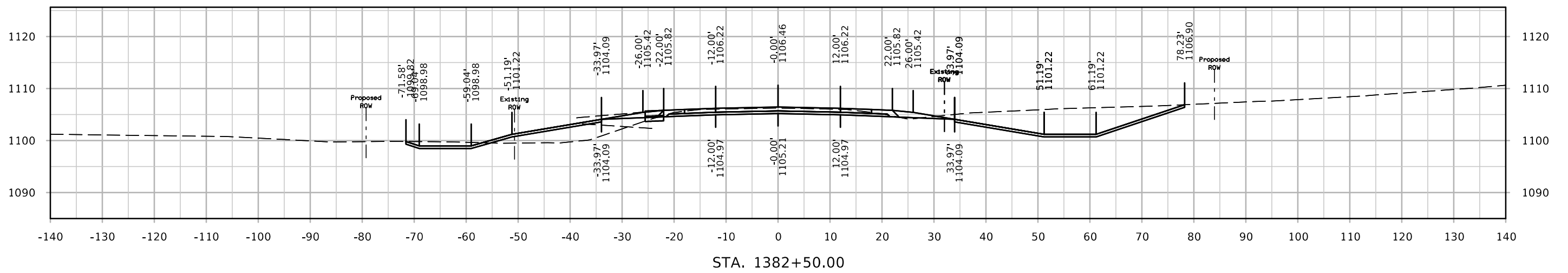
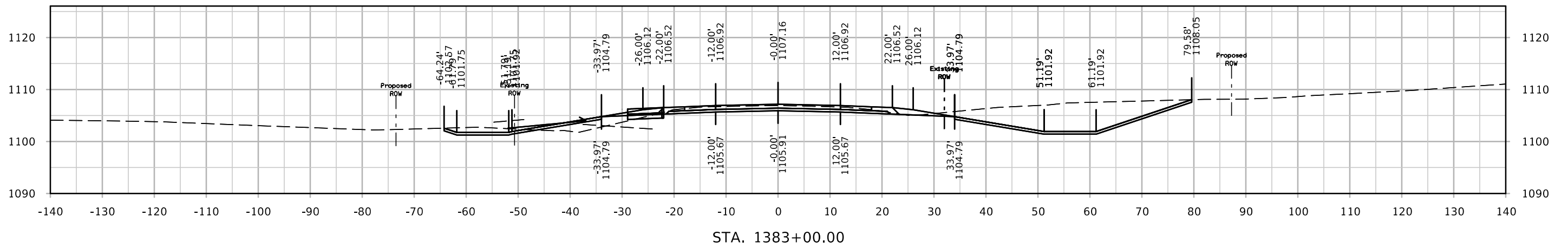


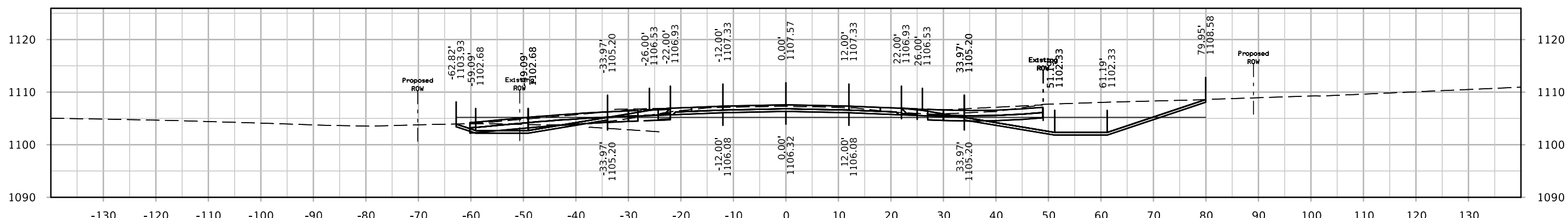
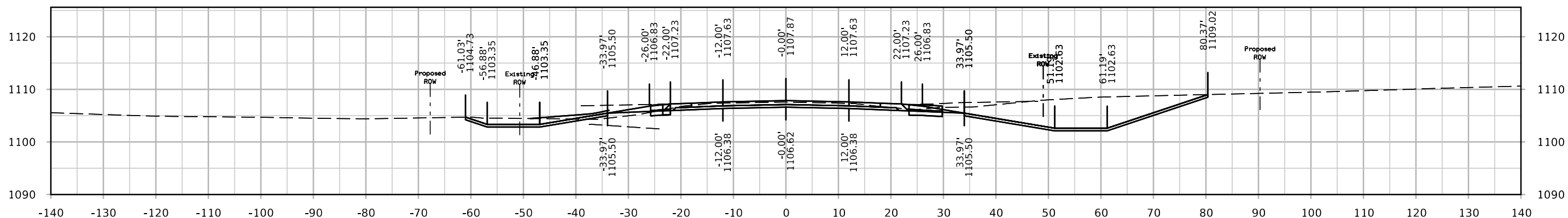
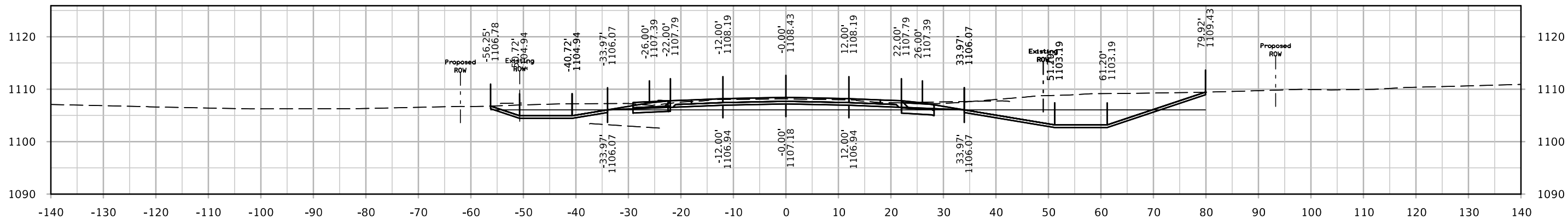
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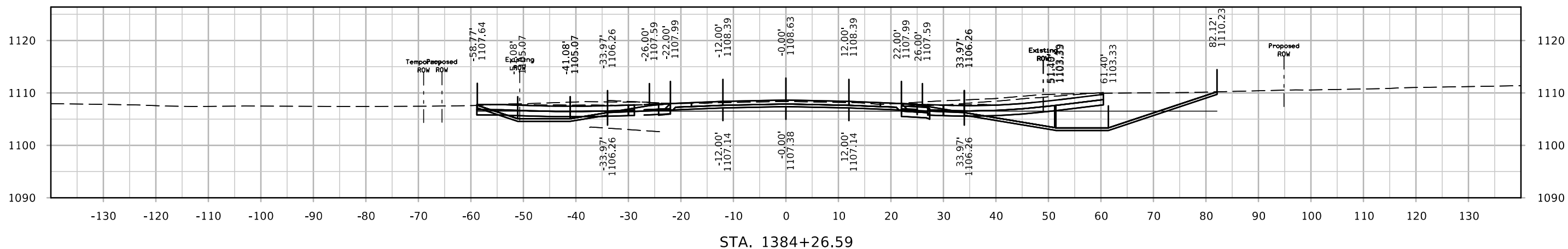
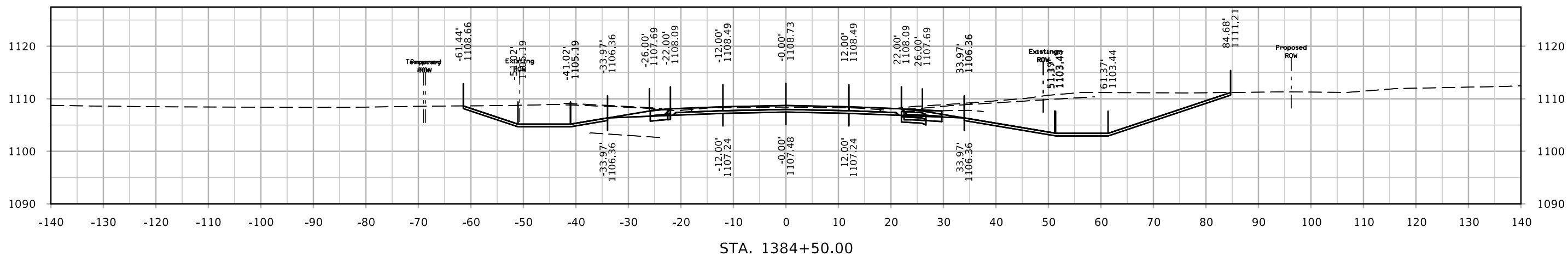
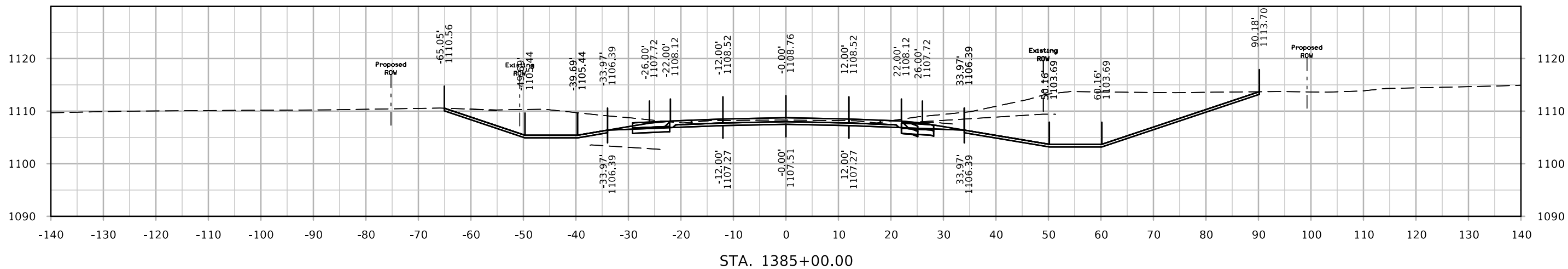


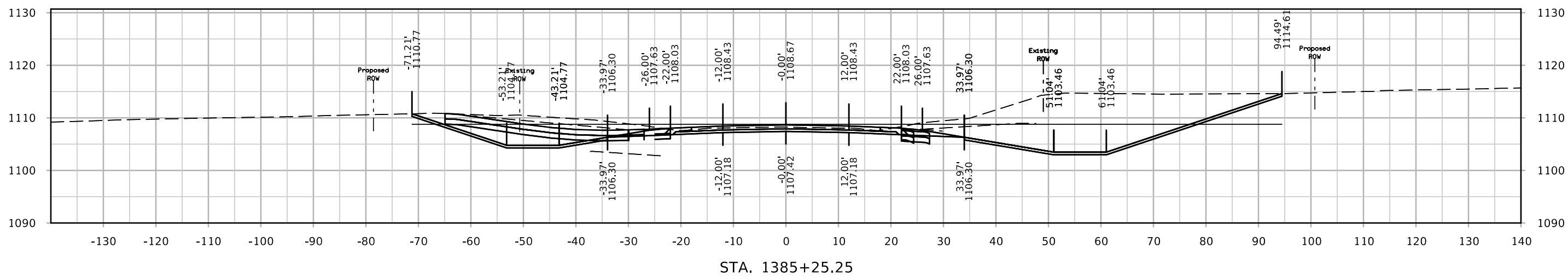
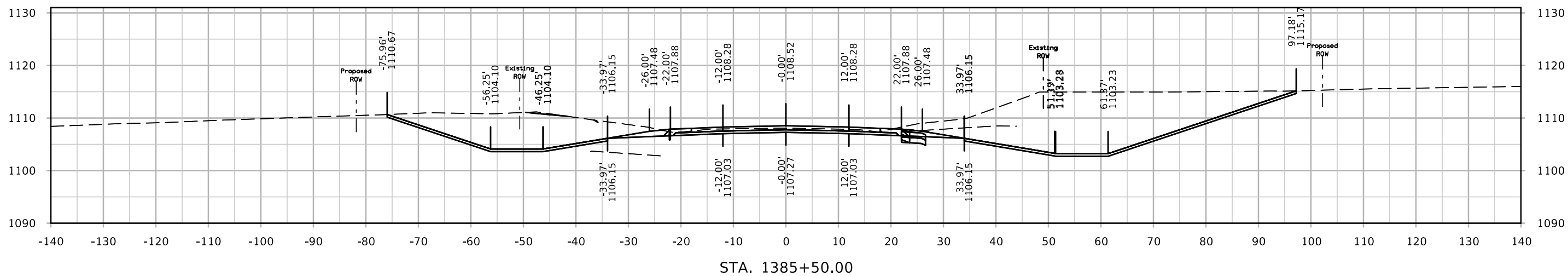
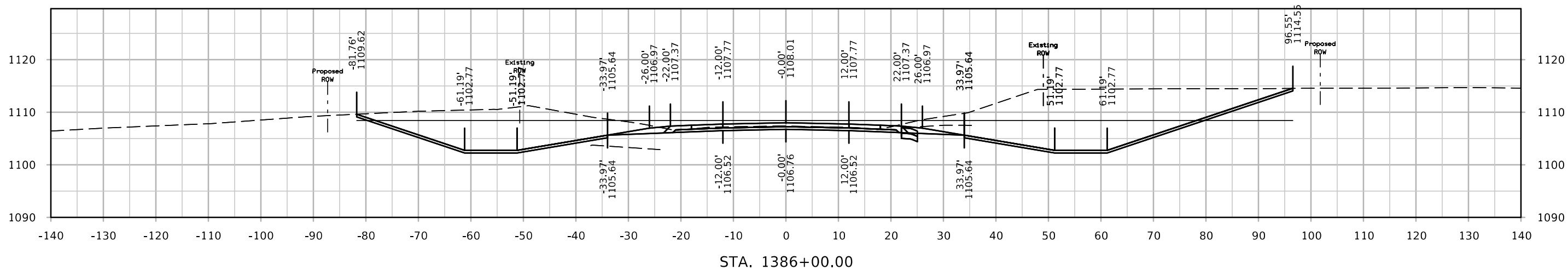
IA 13

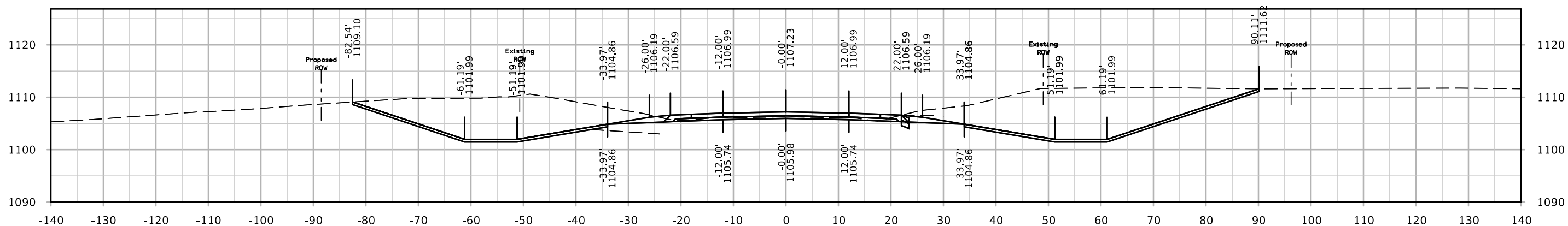
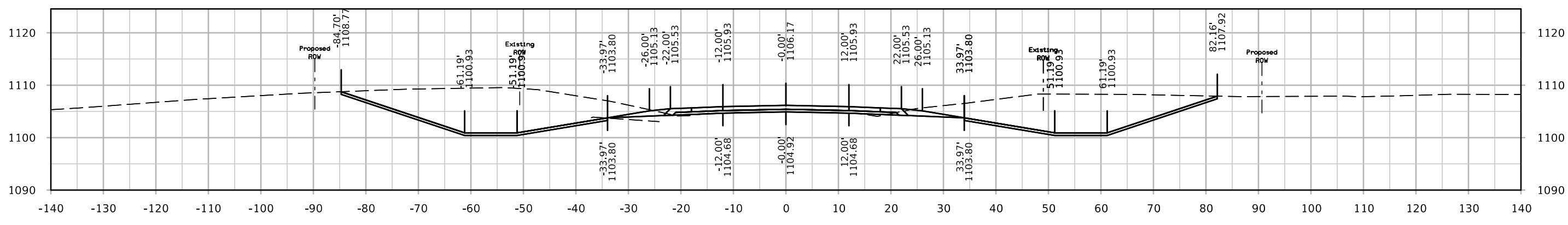
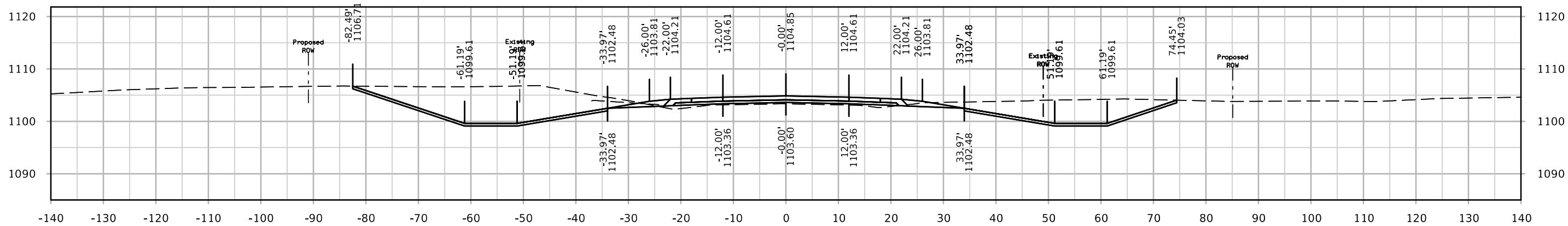


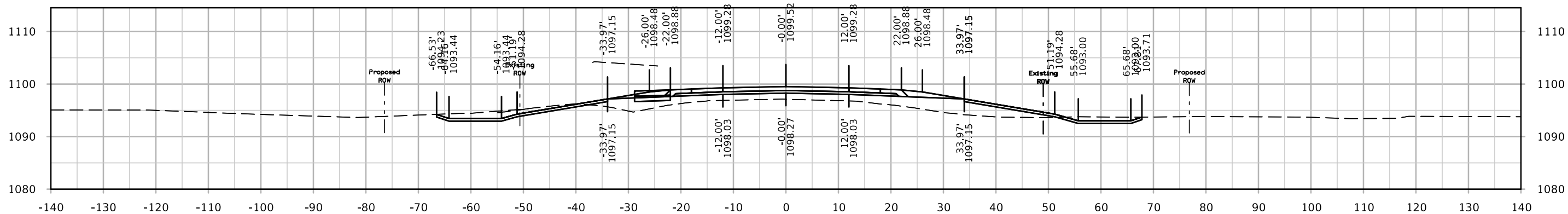




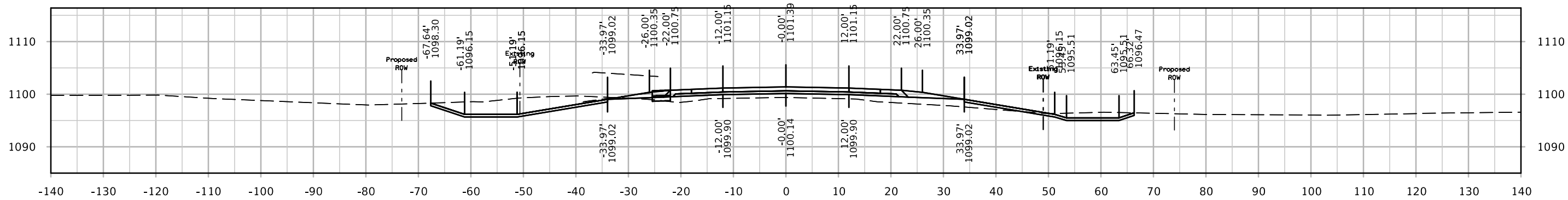




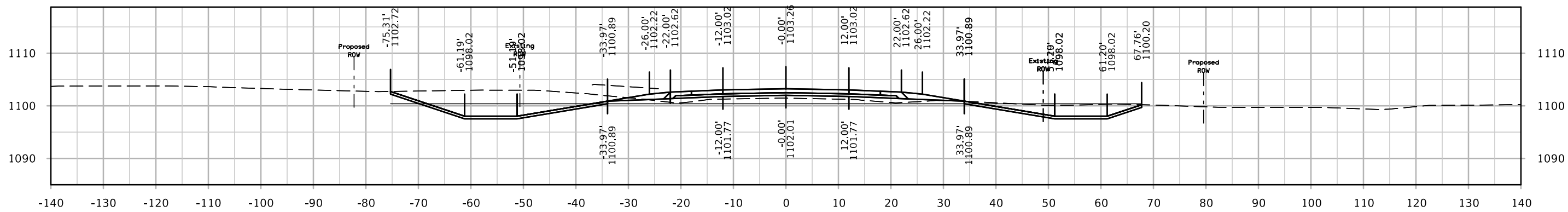




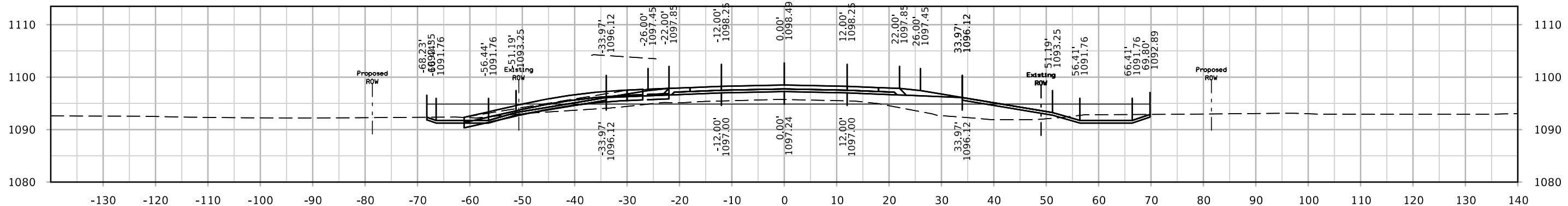
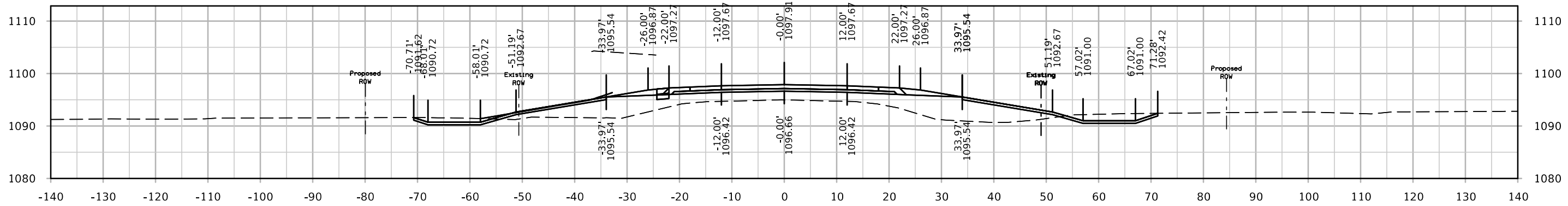
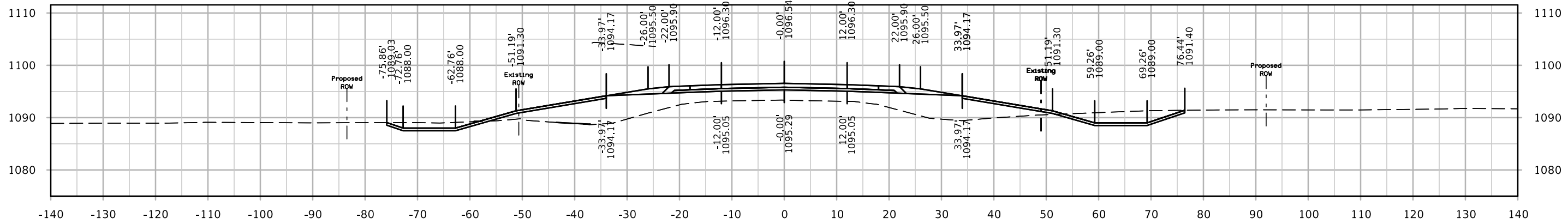
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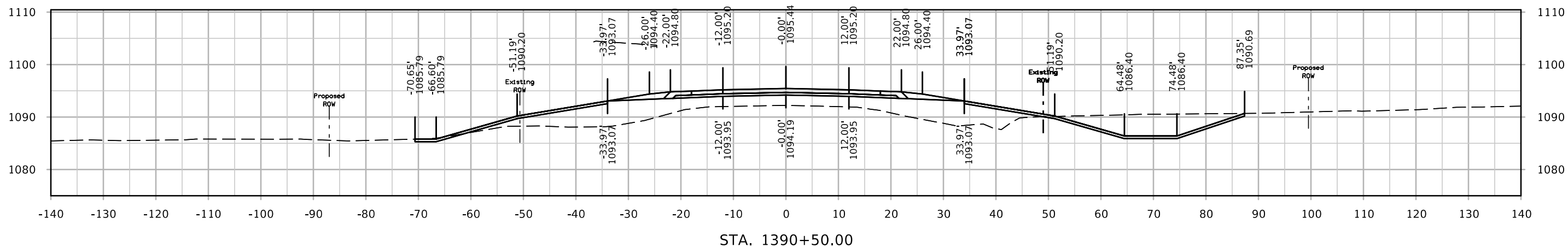
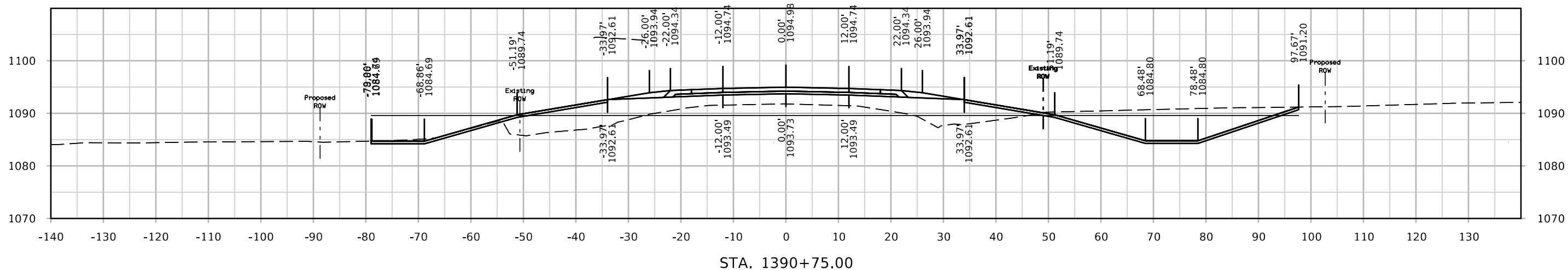
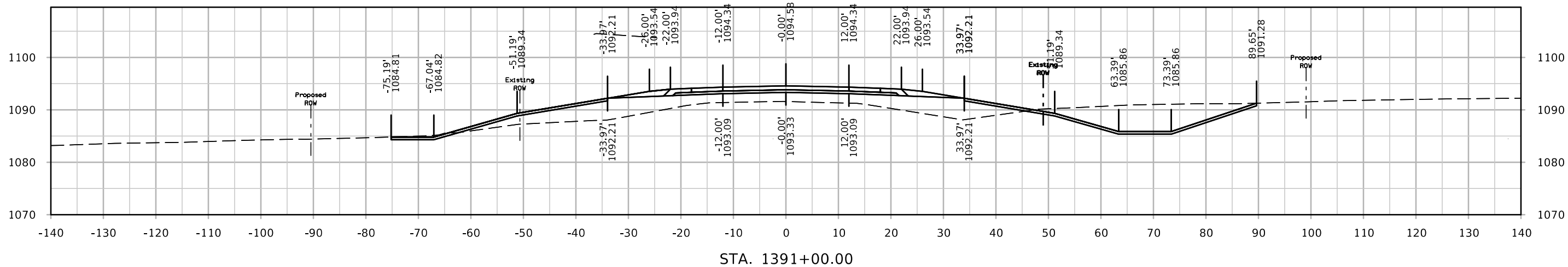


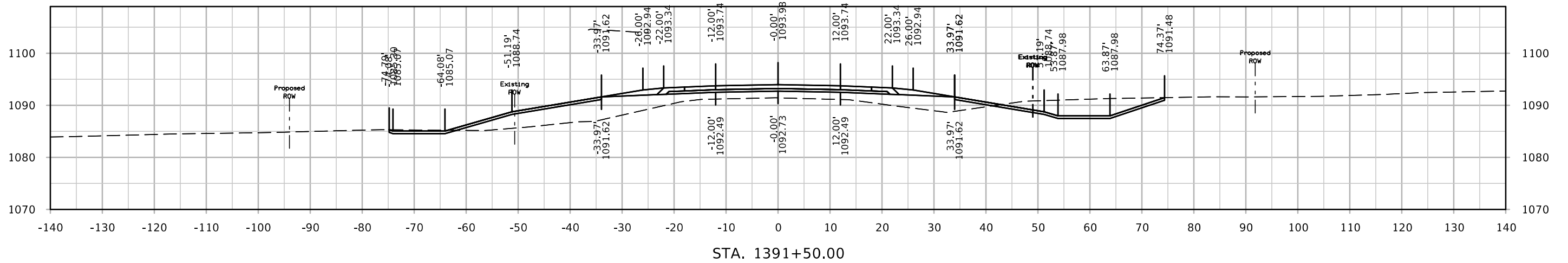
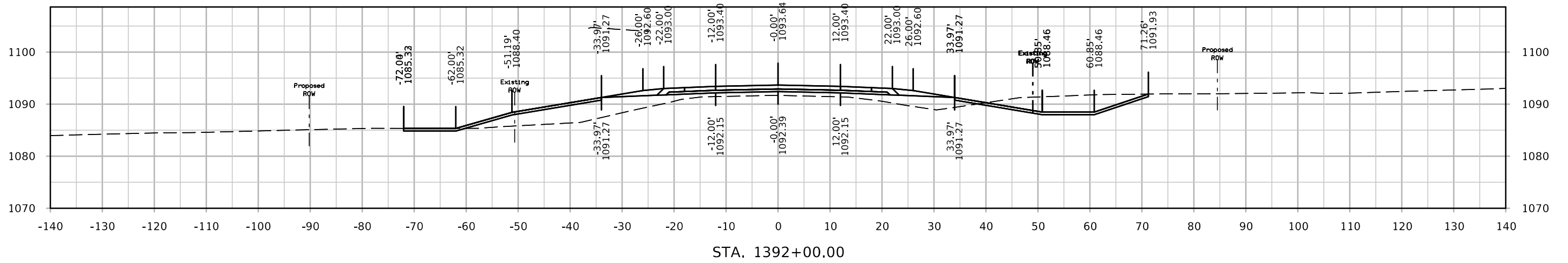
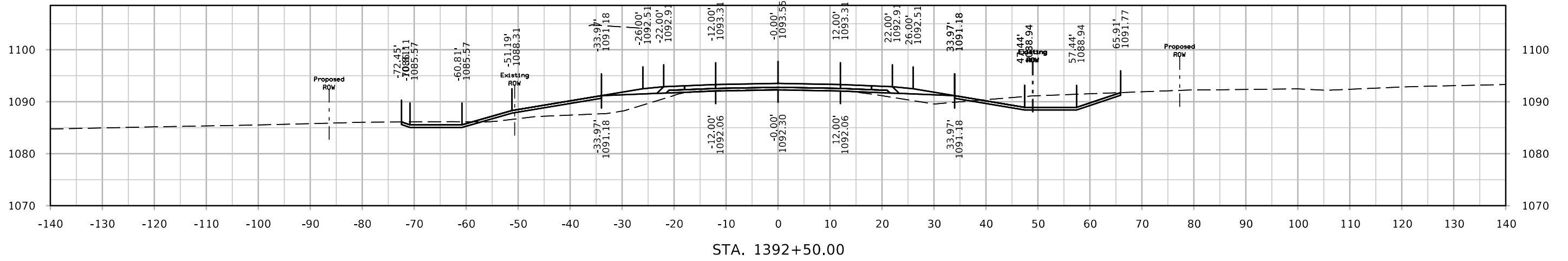
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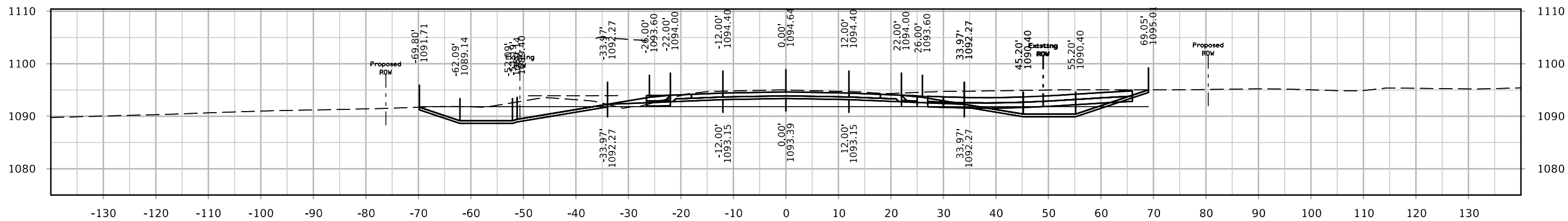


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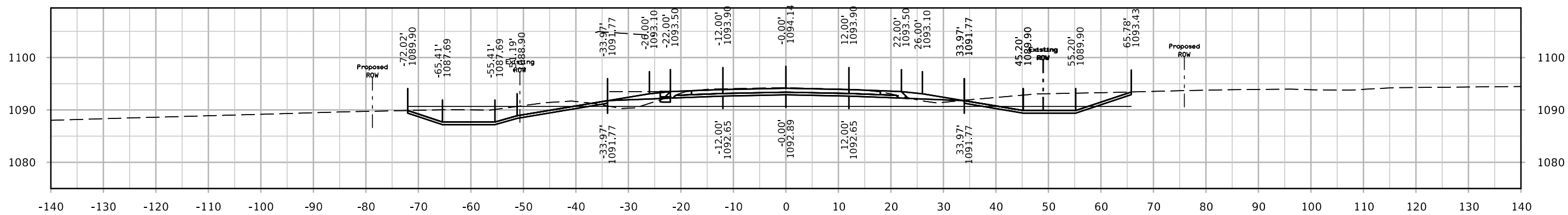




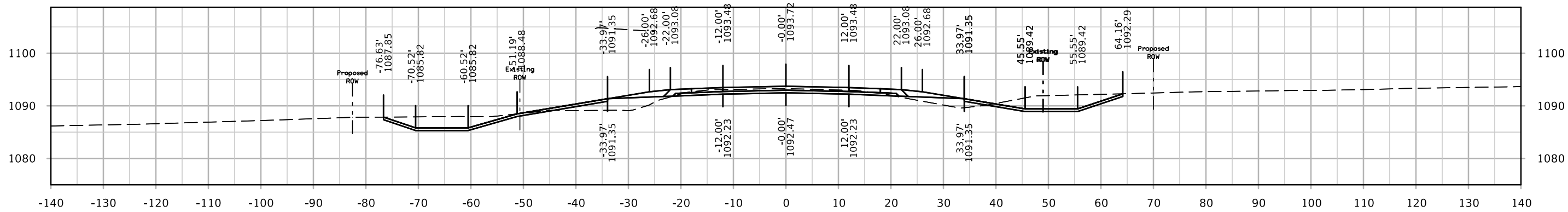




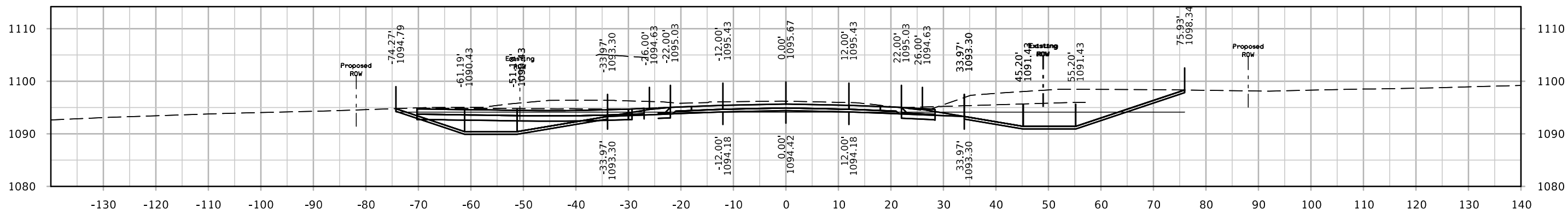
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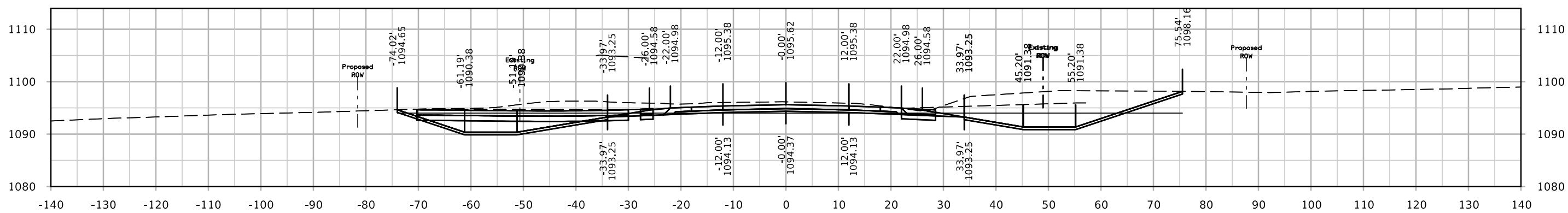
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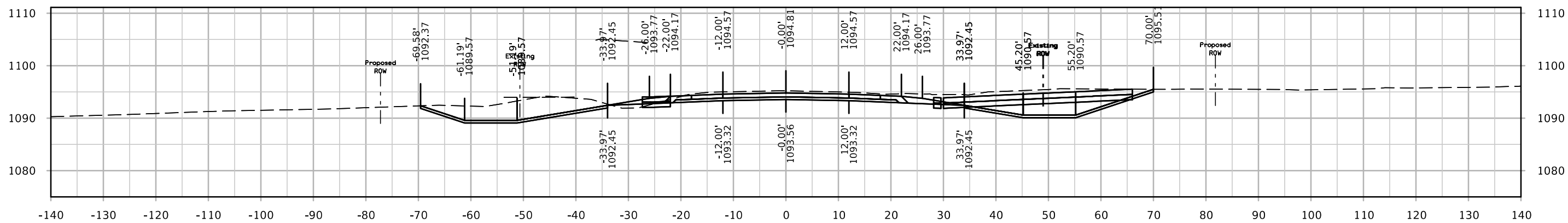
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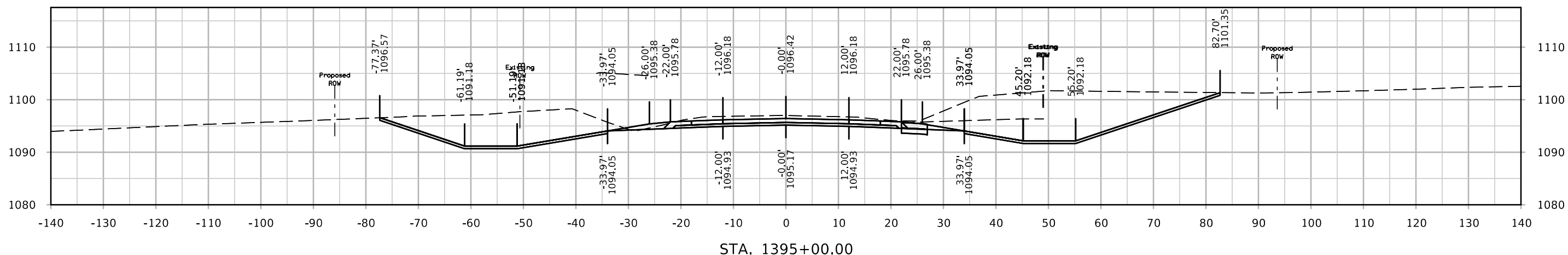
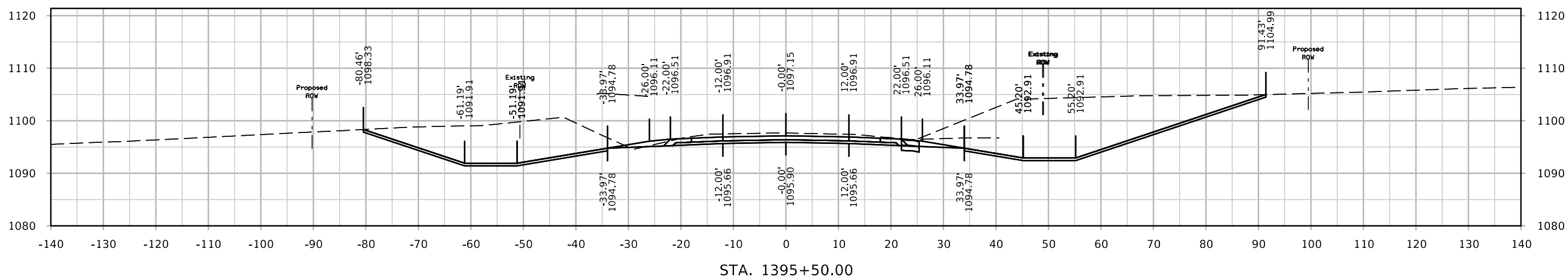
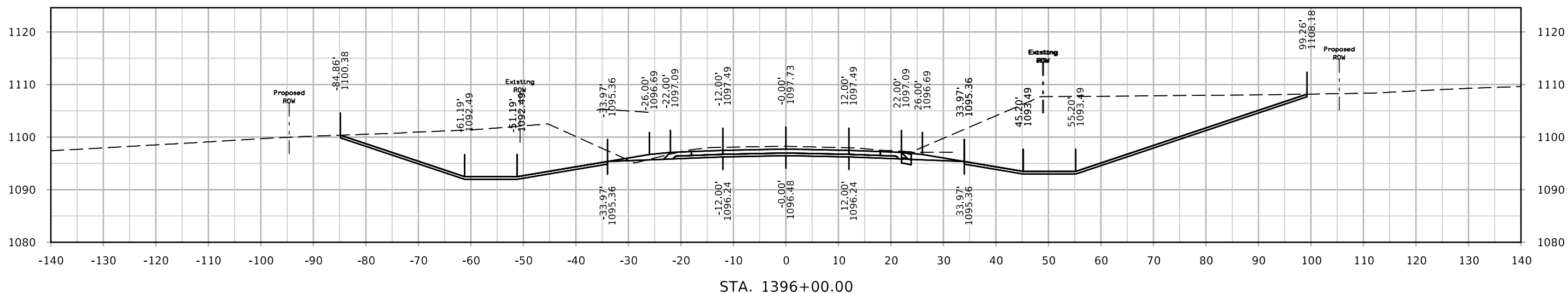
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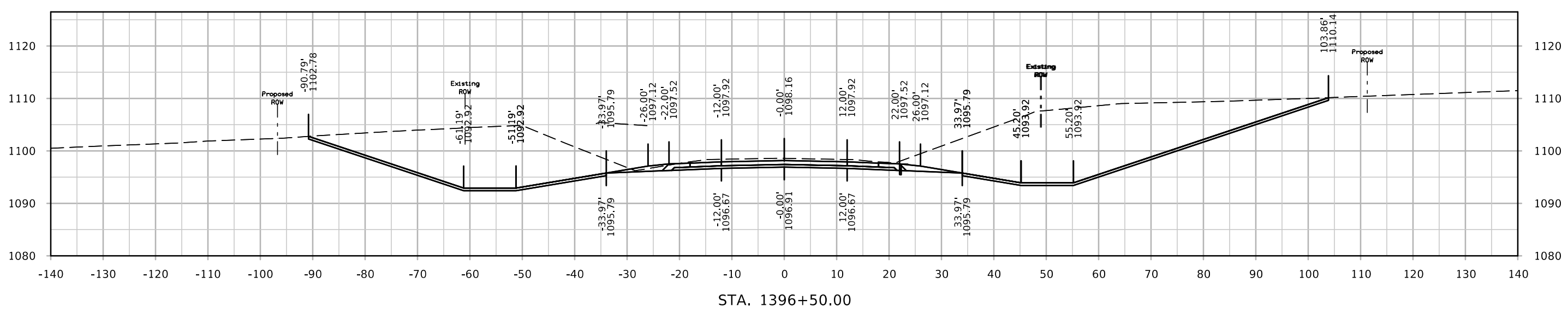
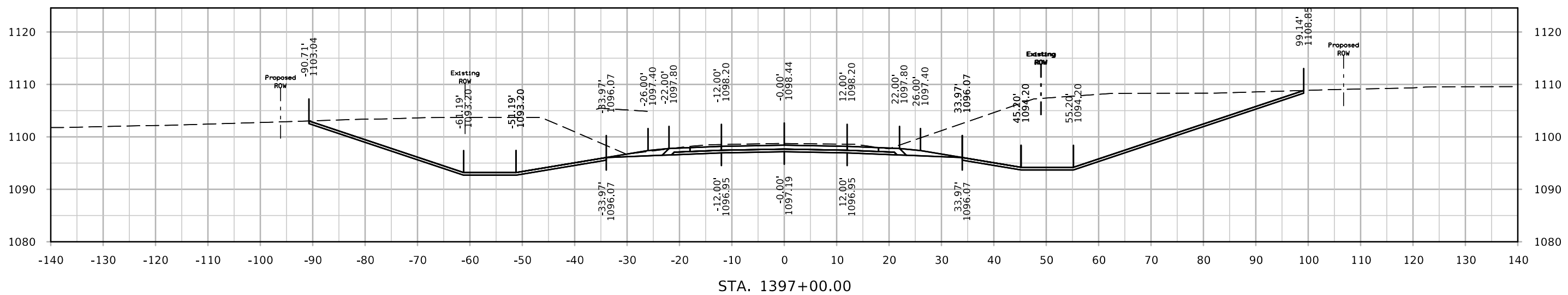
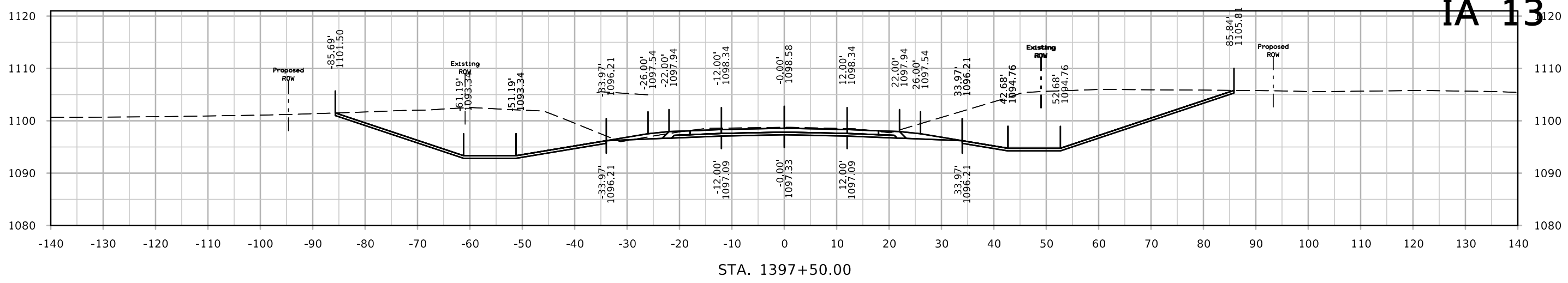


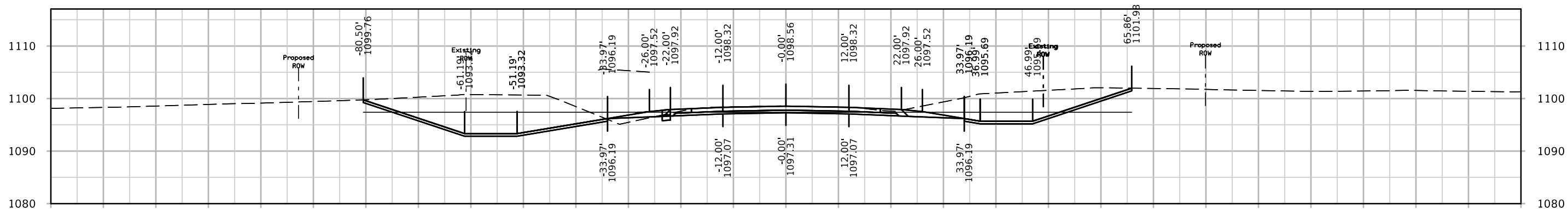
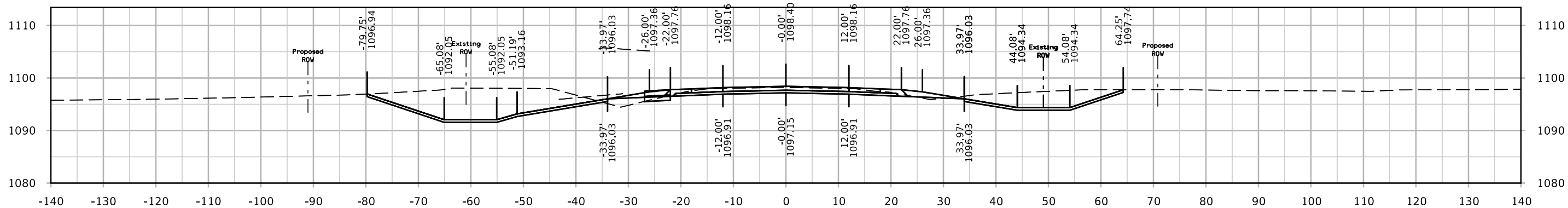
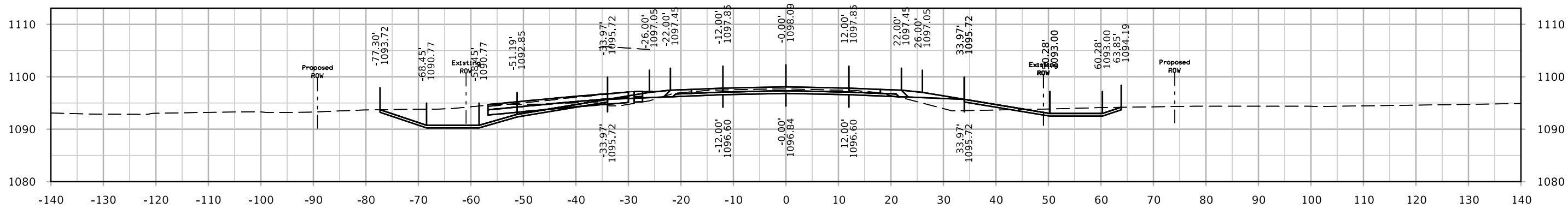
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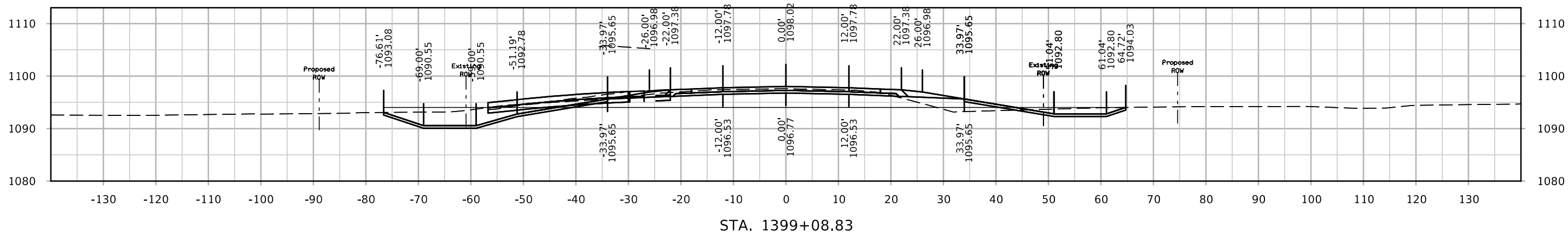
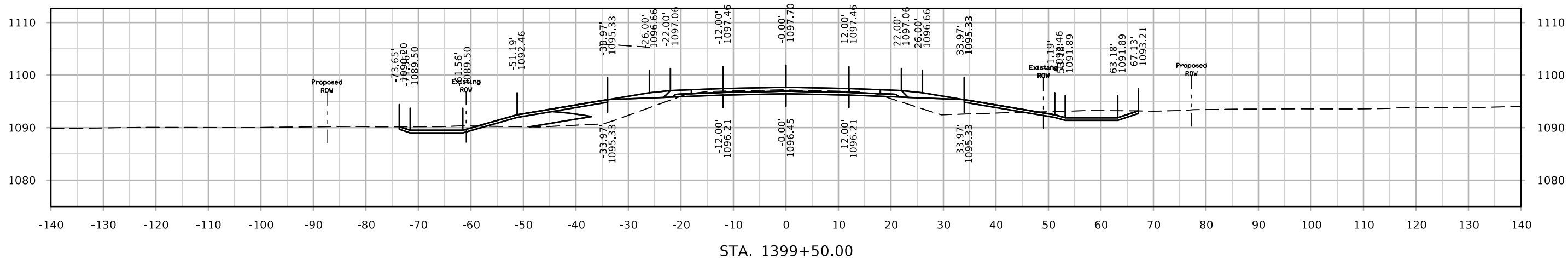
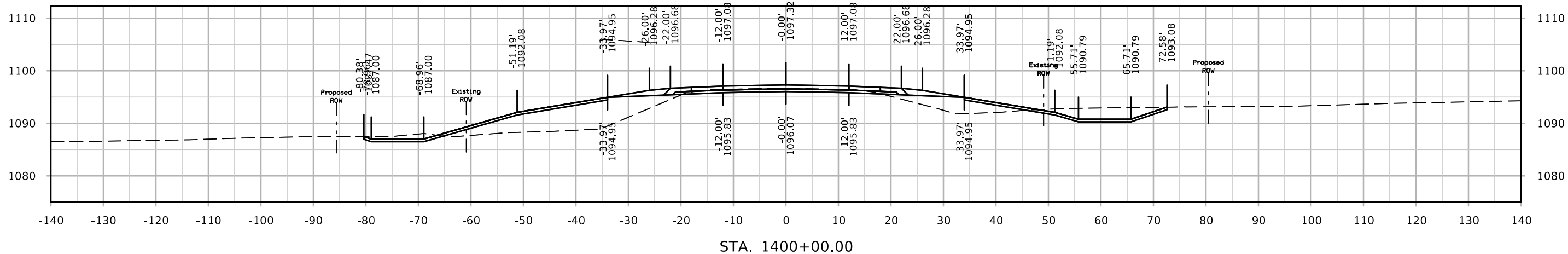


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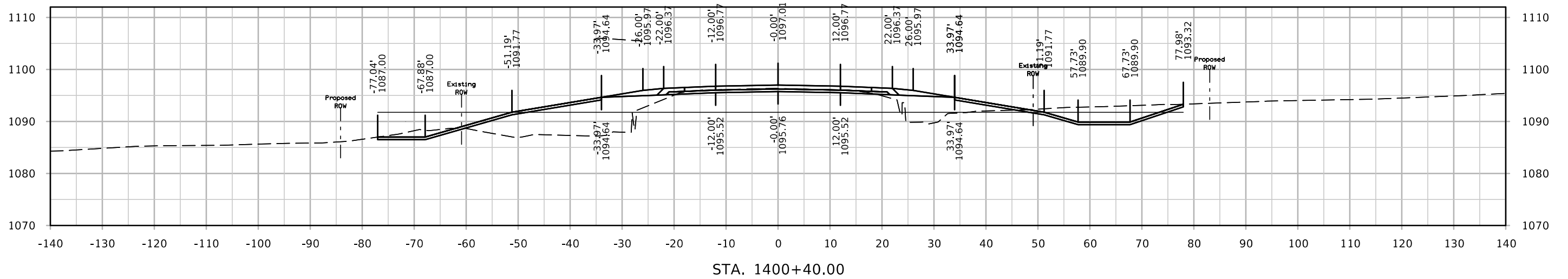
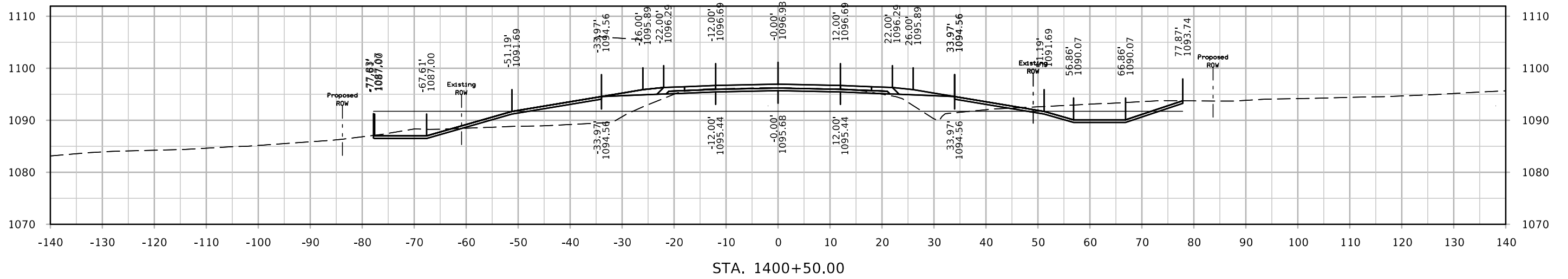
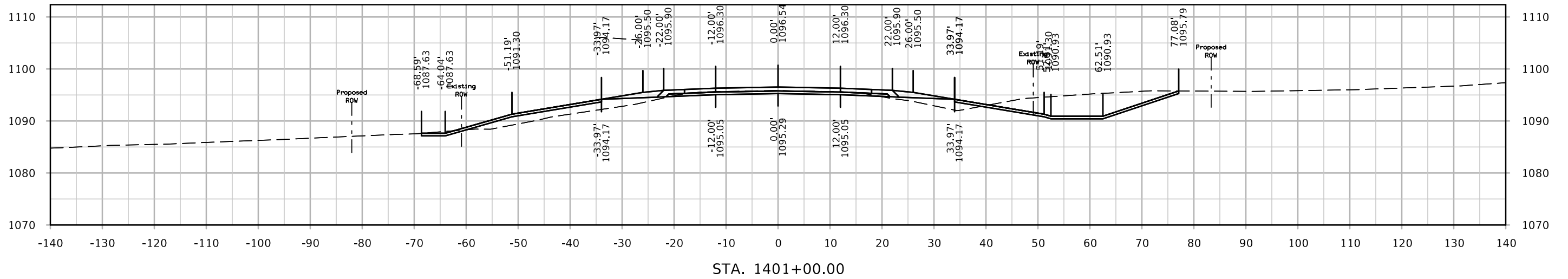


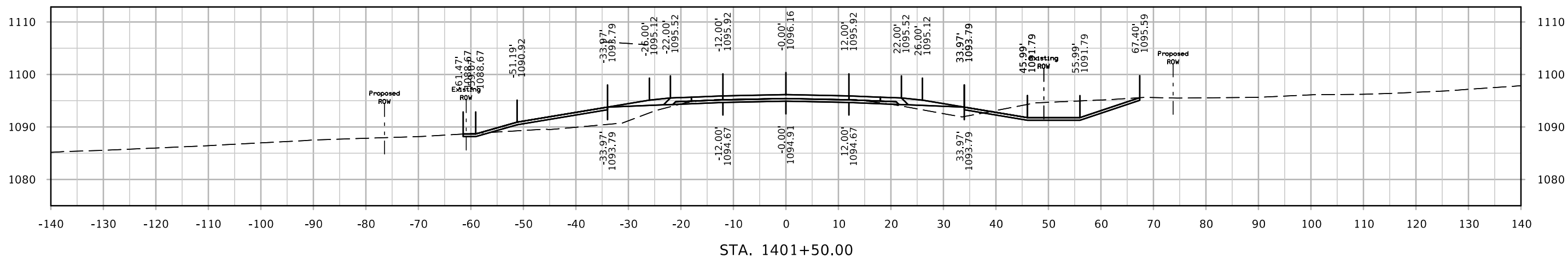
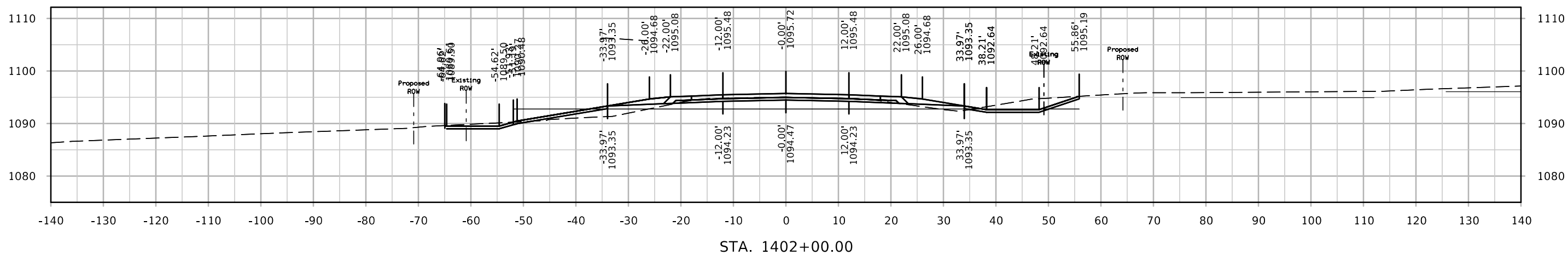
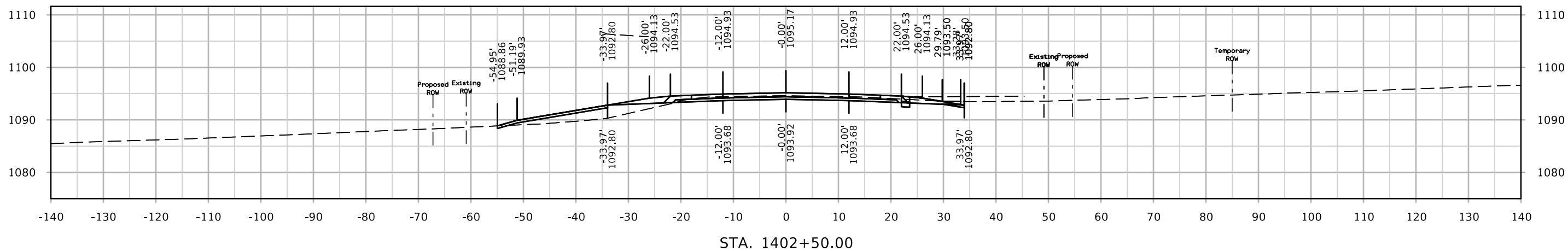


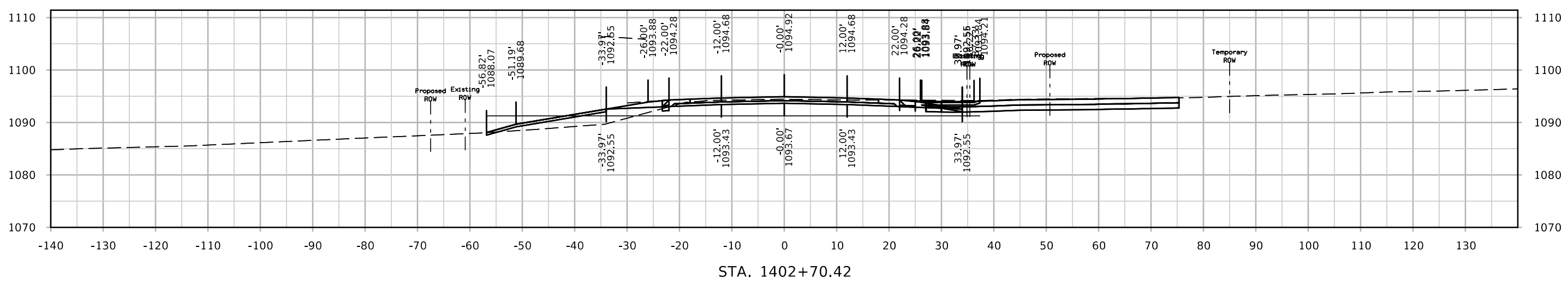
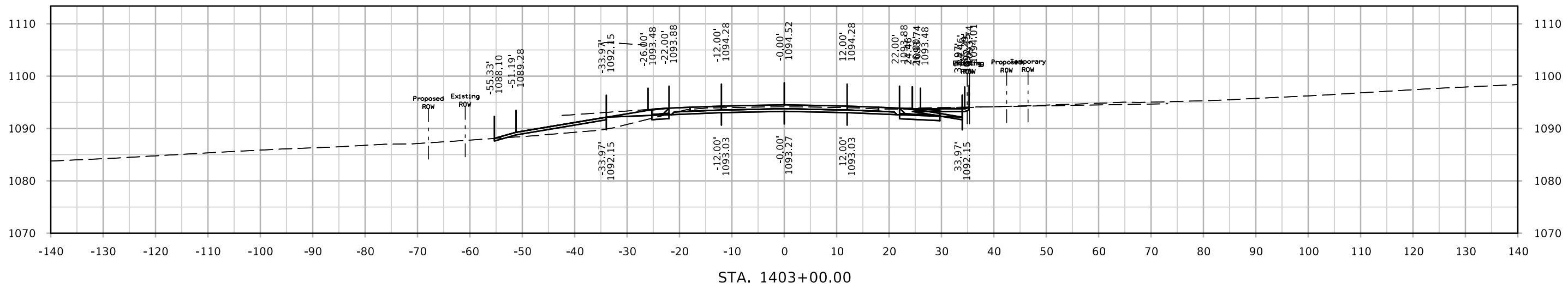
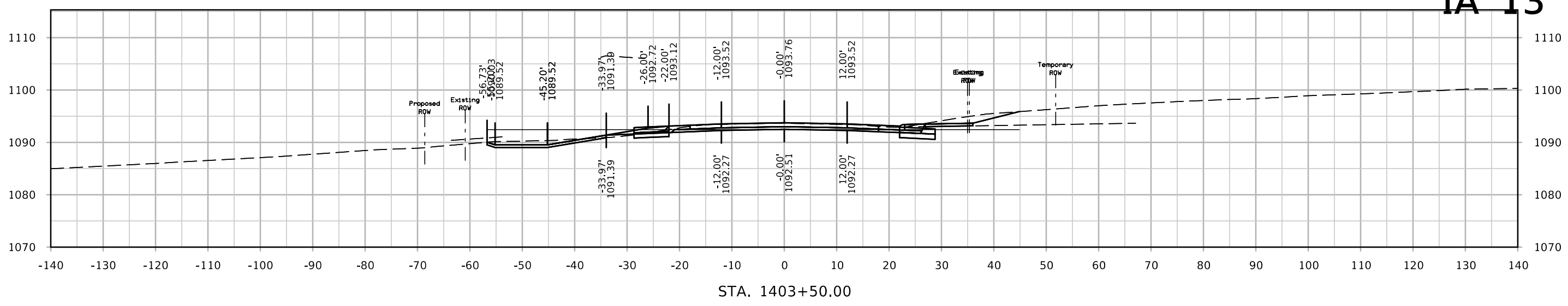


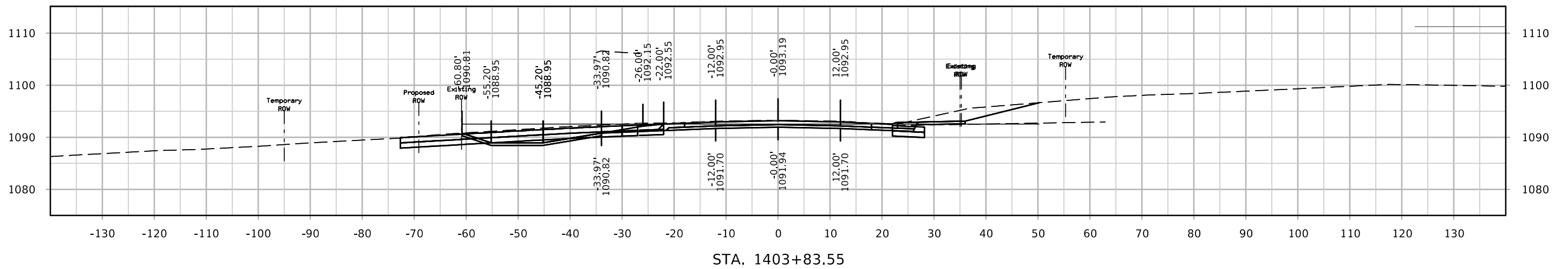
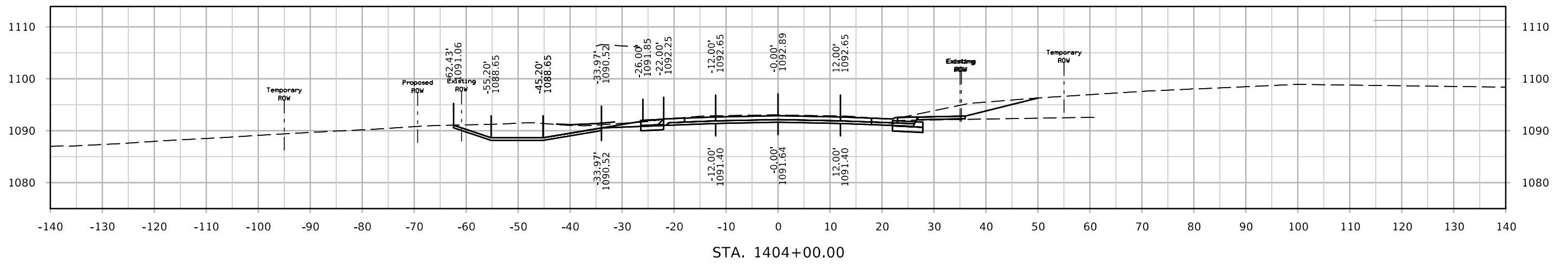
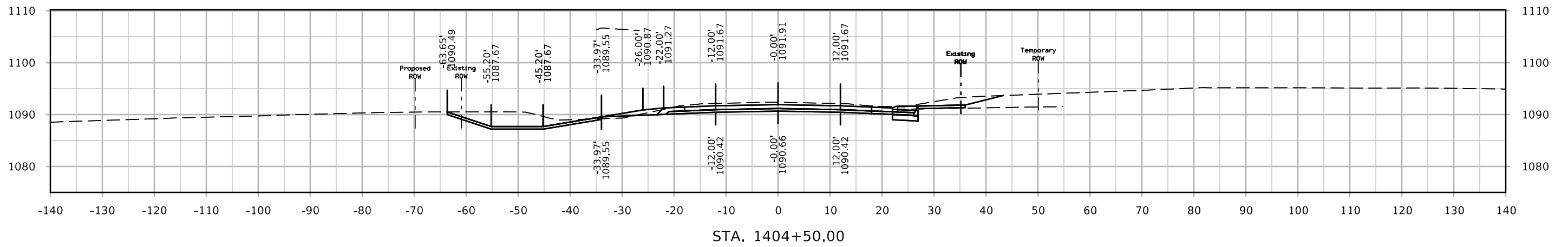


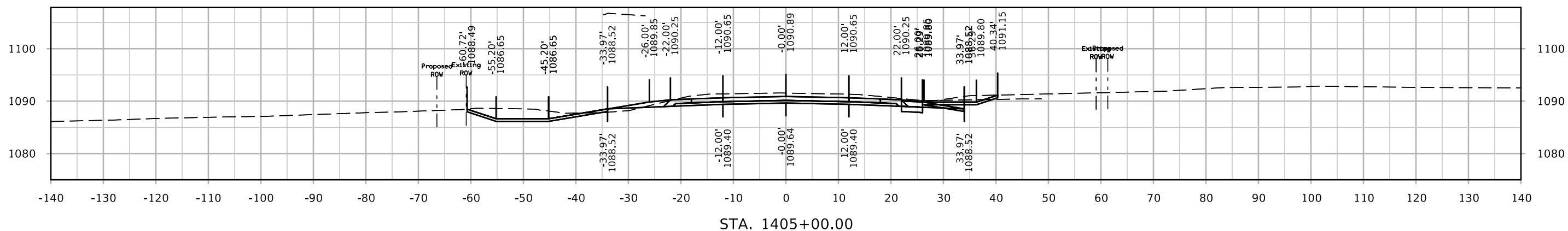
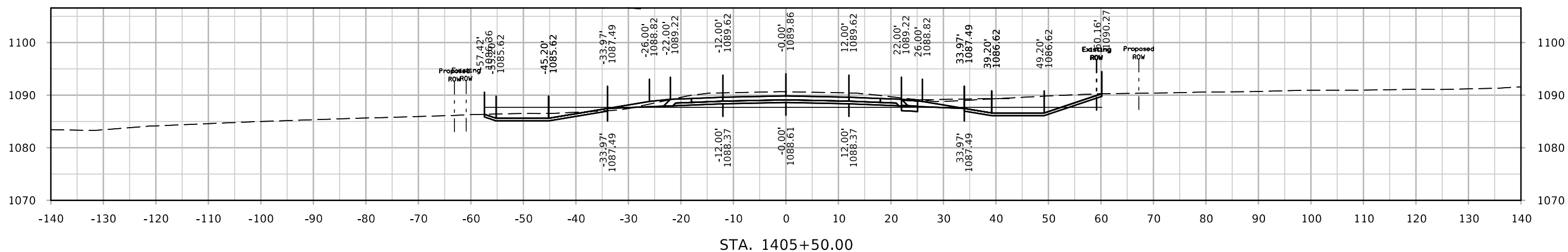
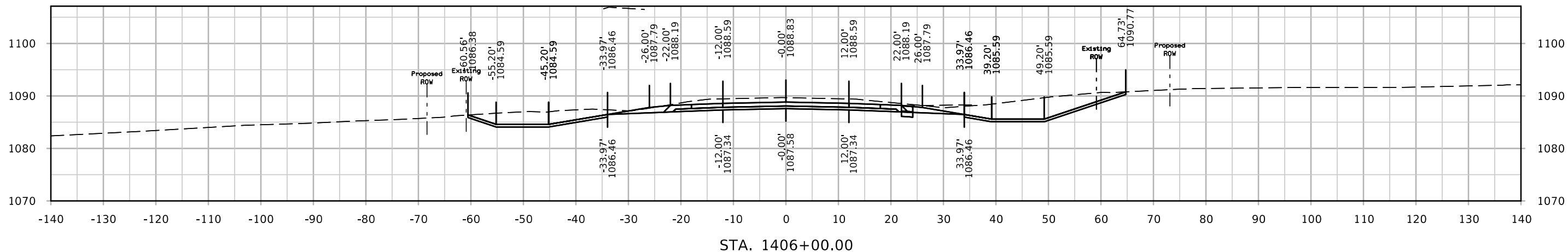
IA 13

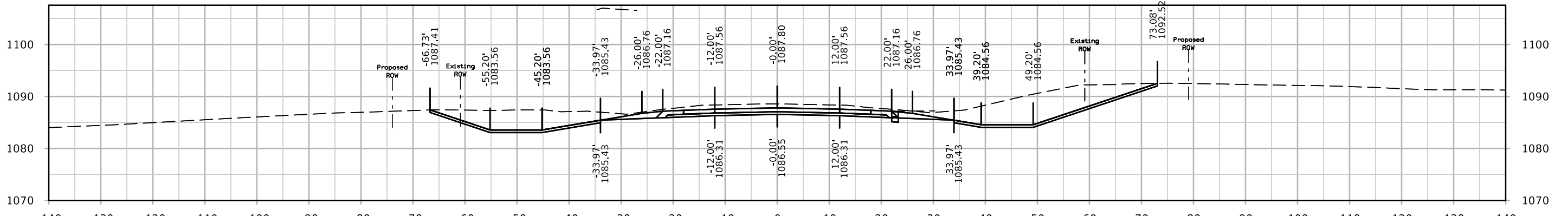
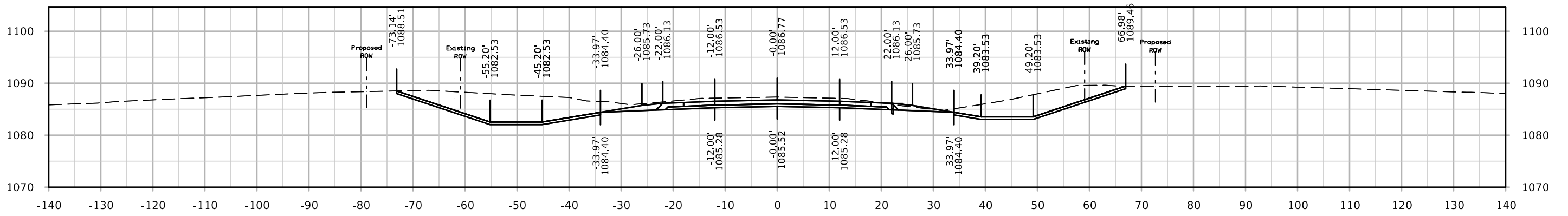
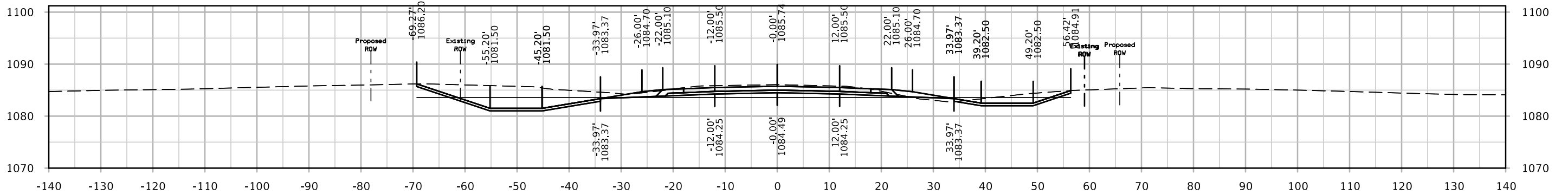


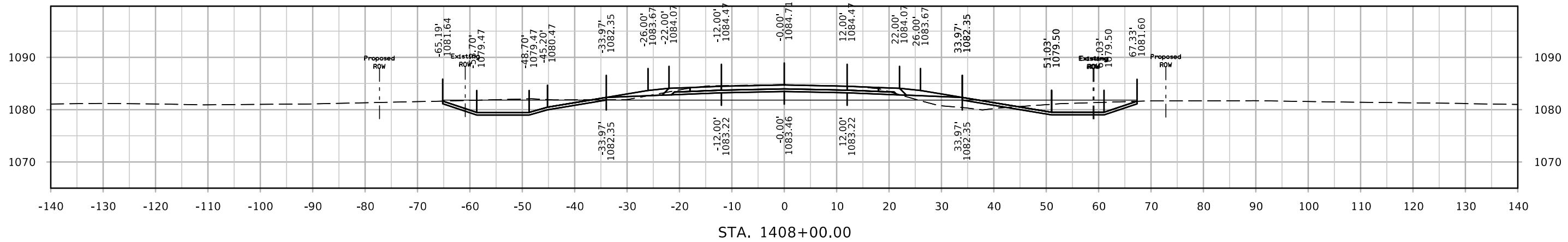
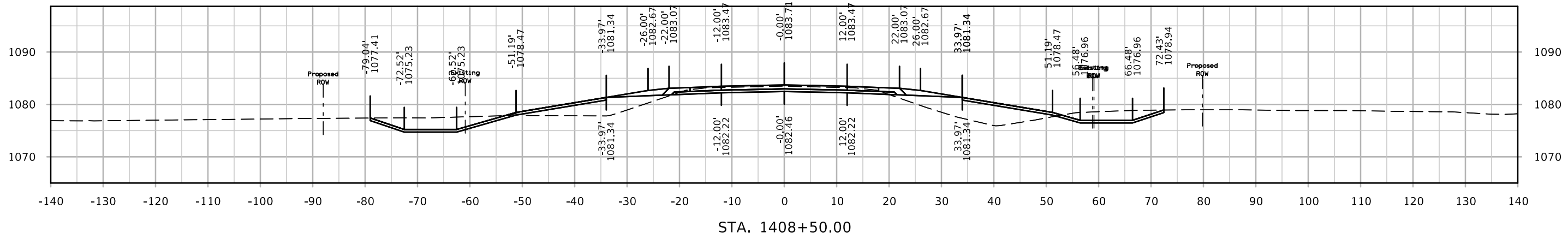
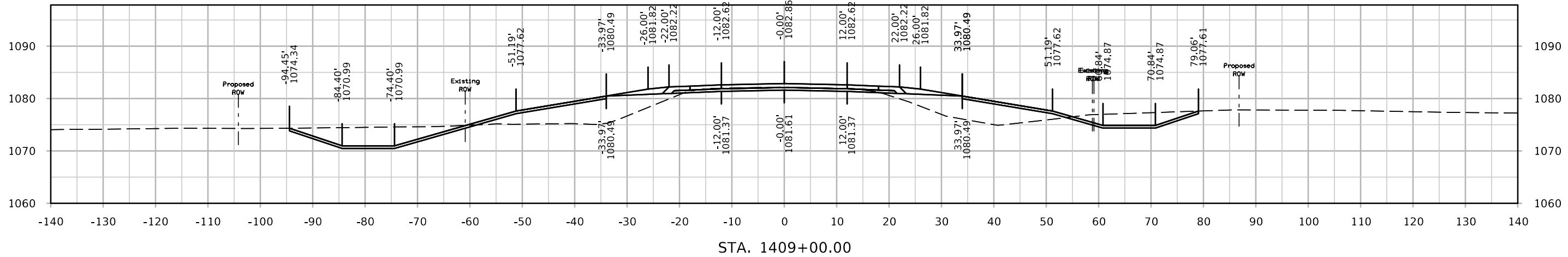


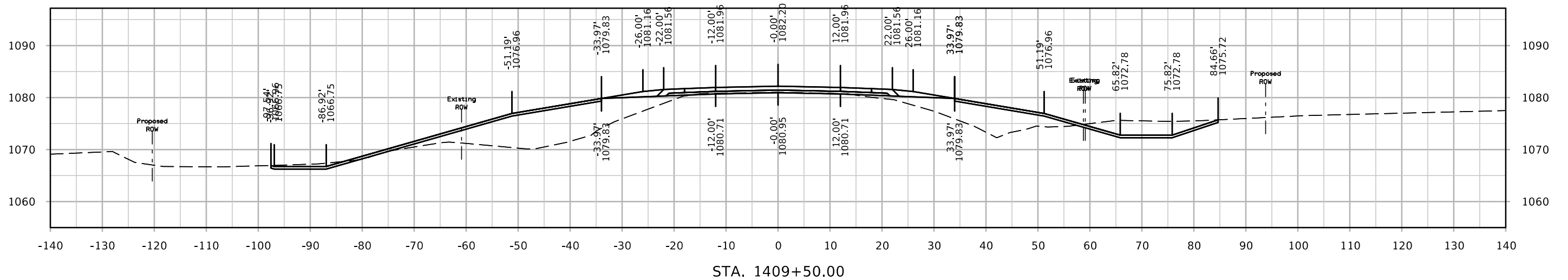
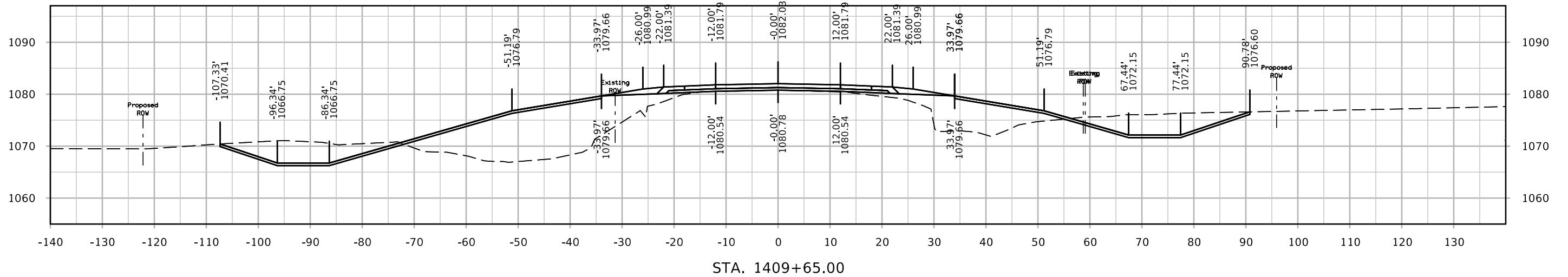
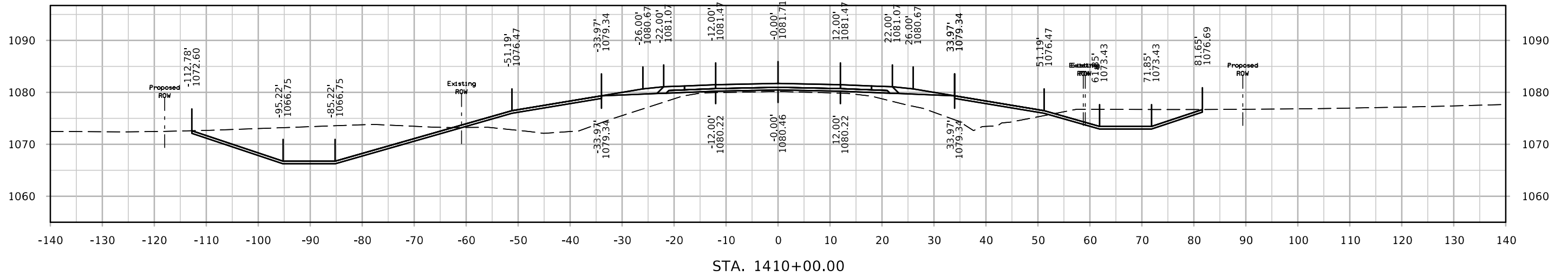


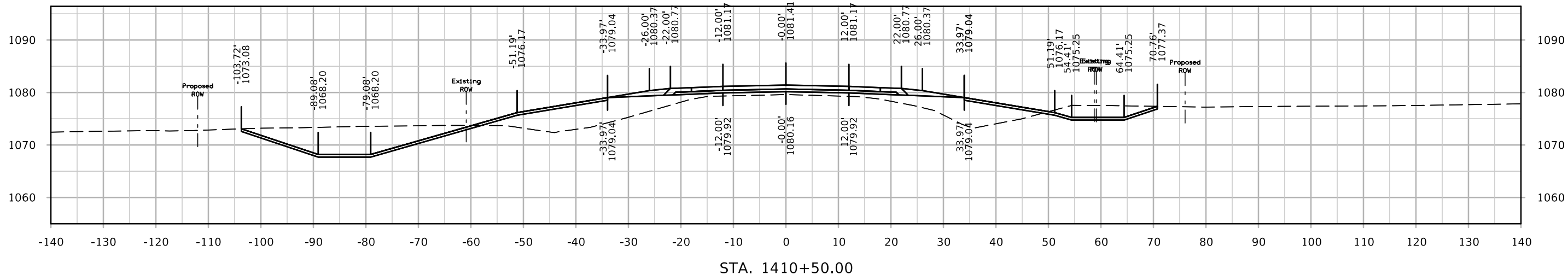
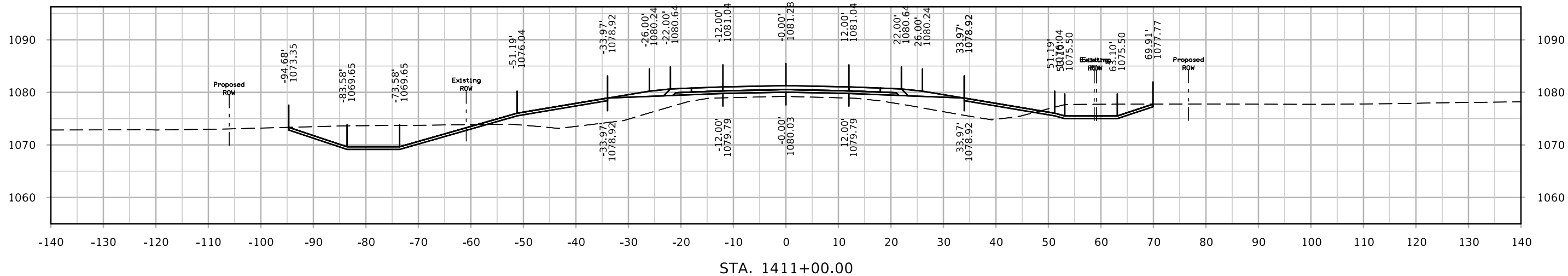
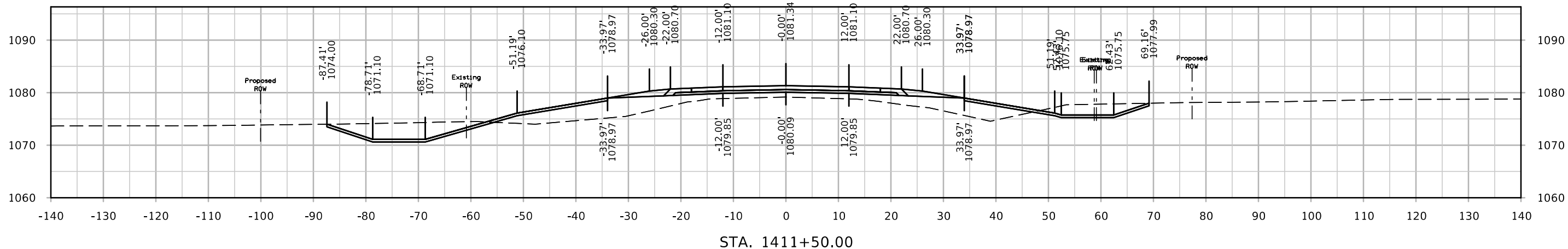


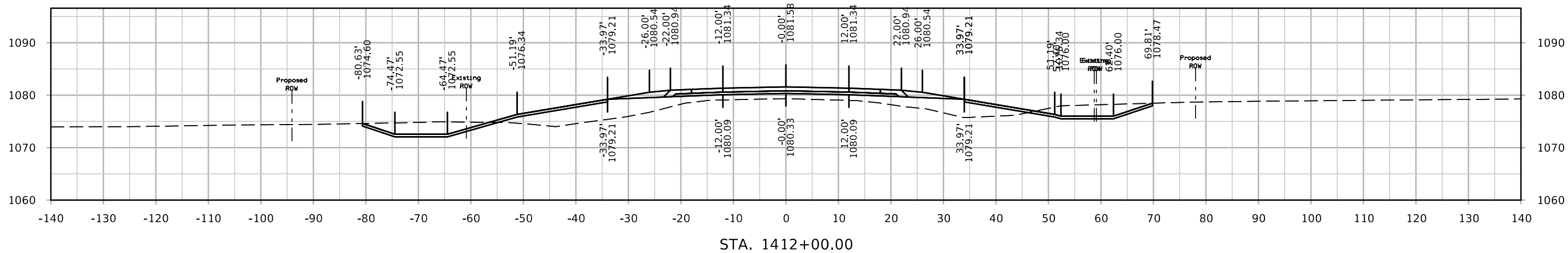
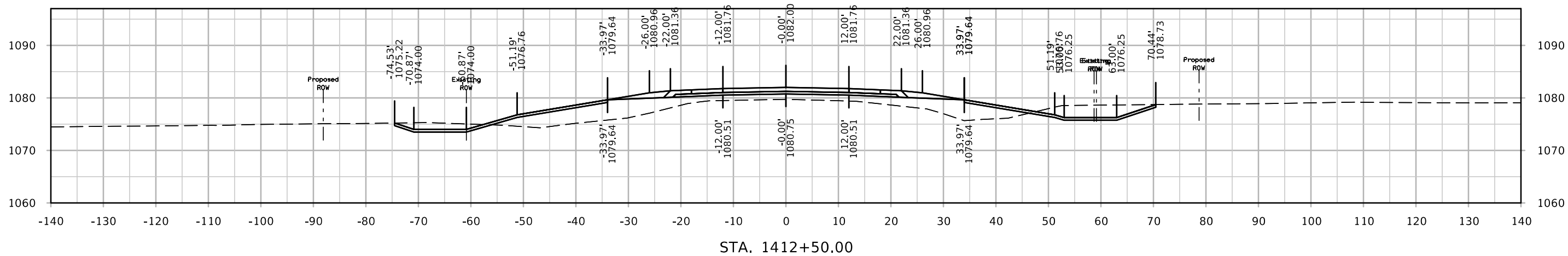
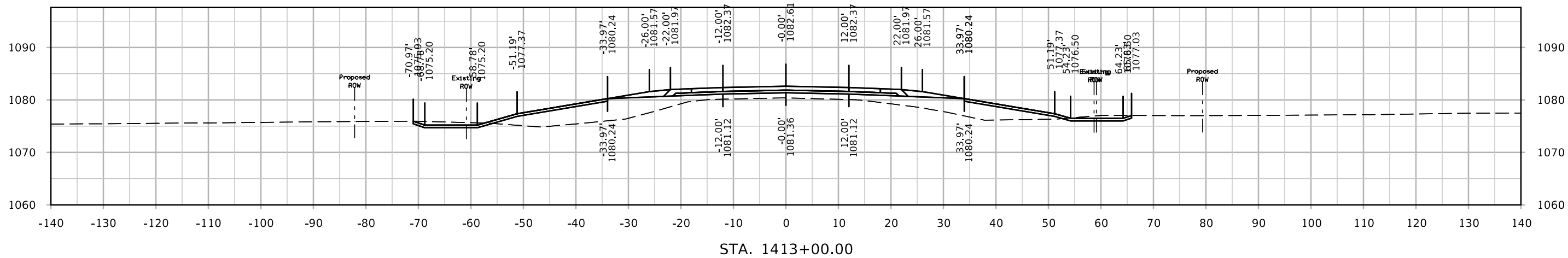


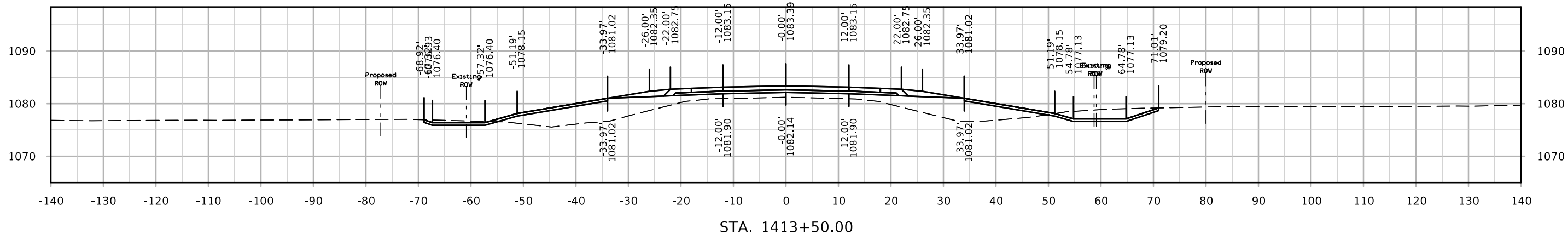
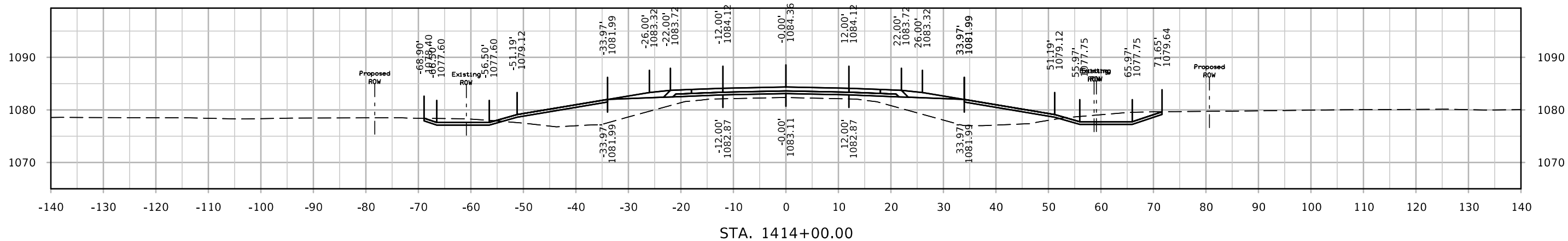
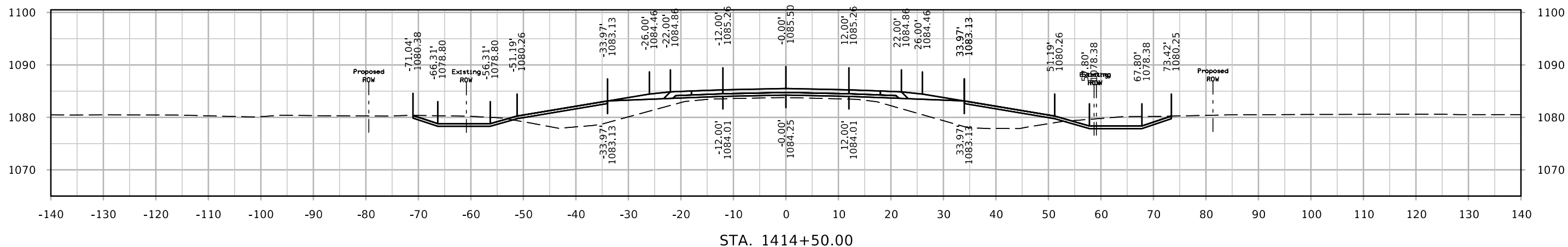


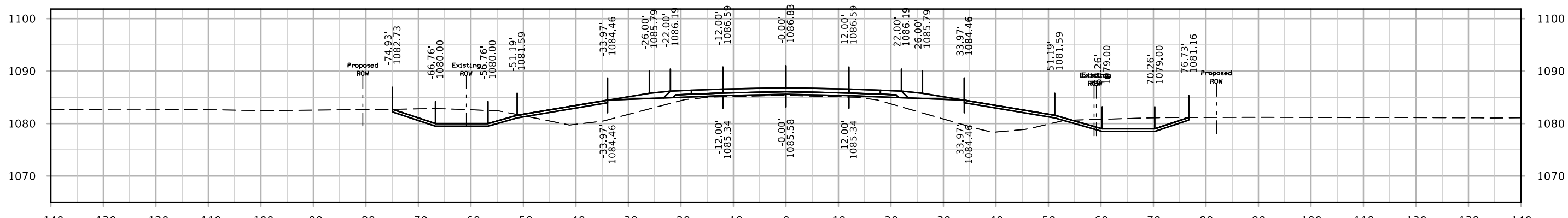
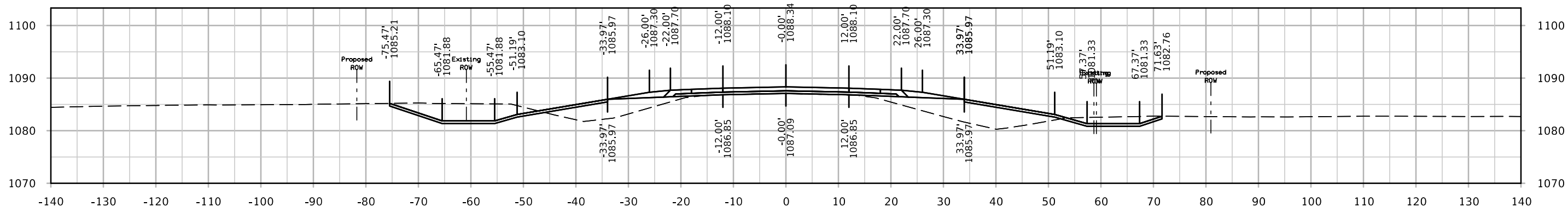
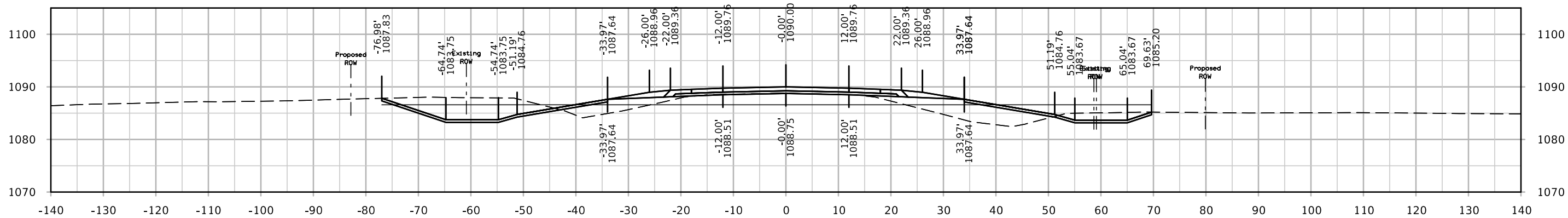


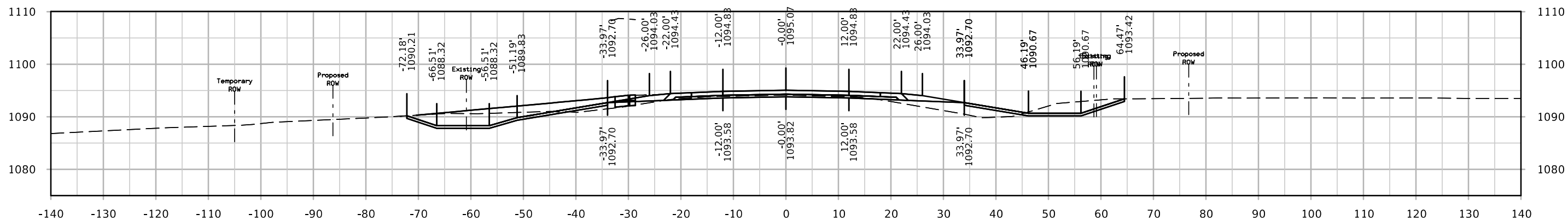




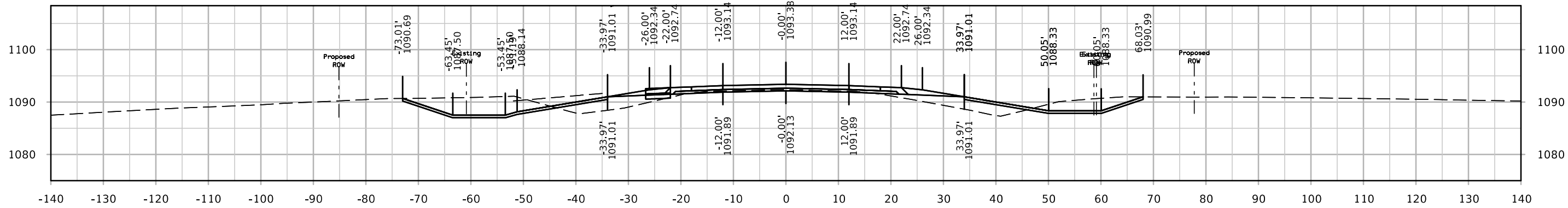




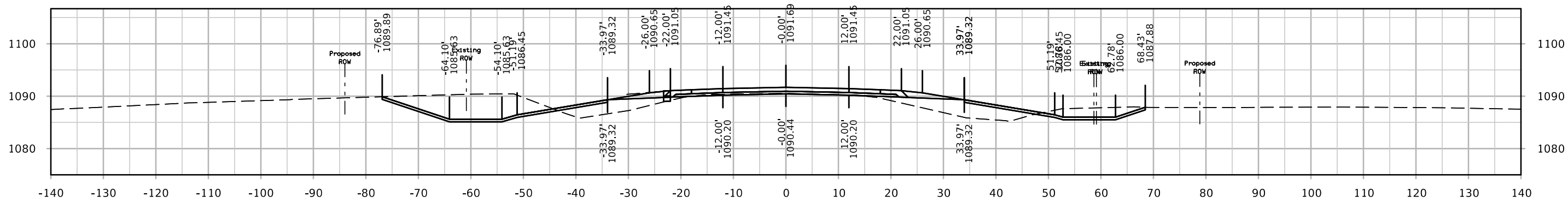




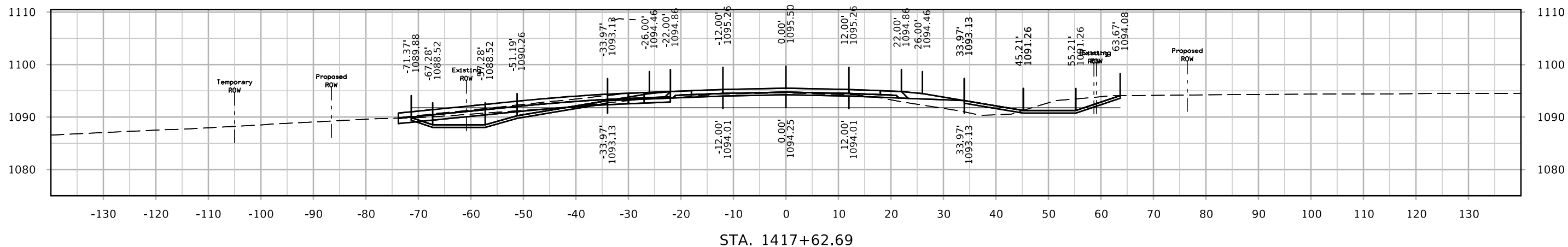
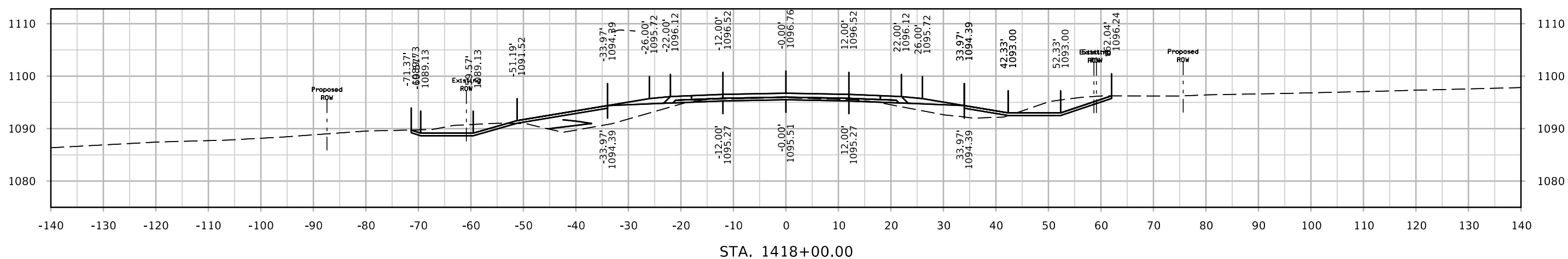
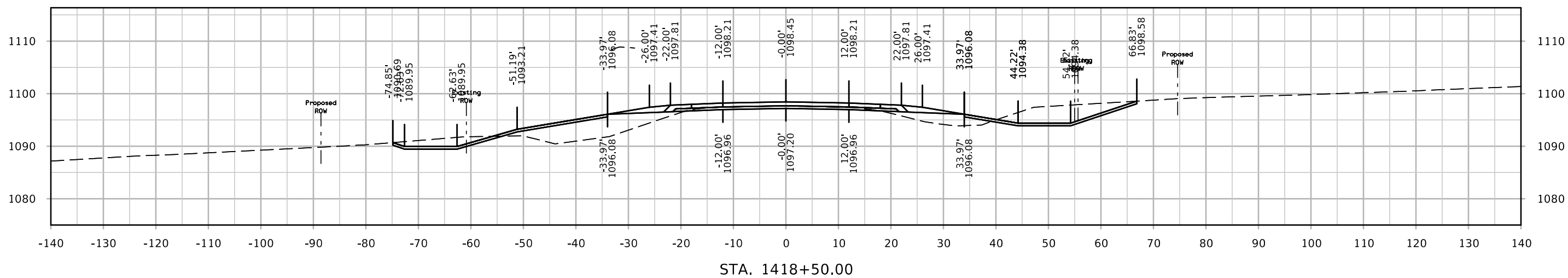
STA. 1417+50.00



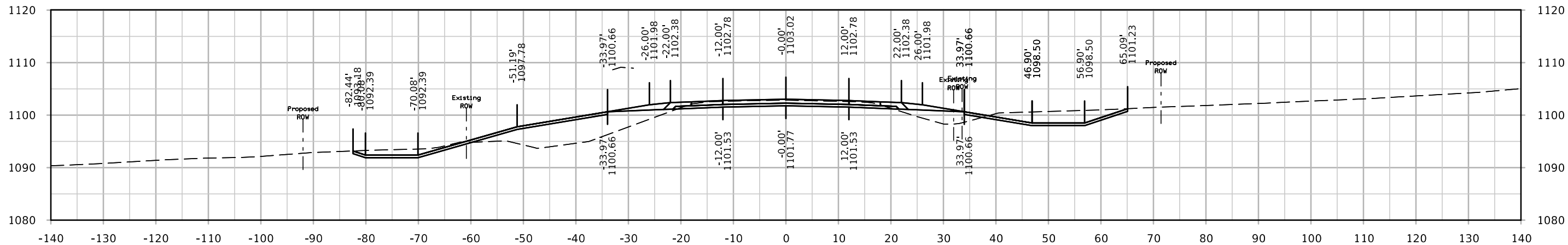
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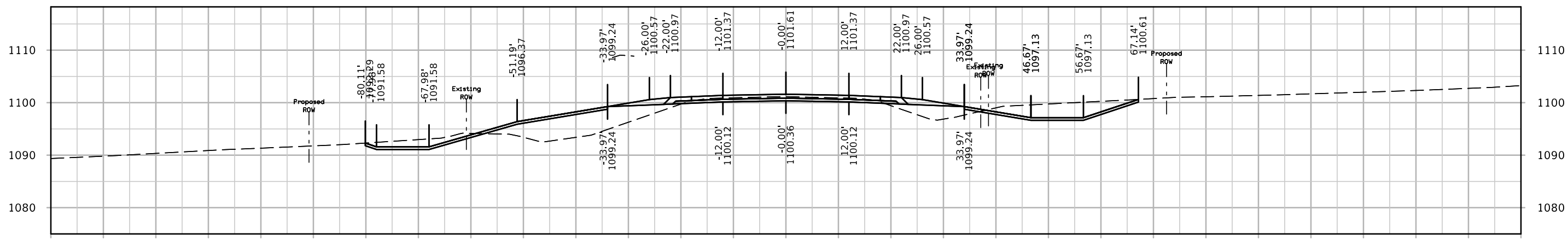
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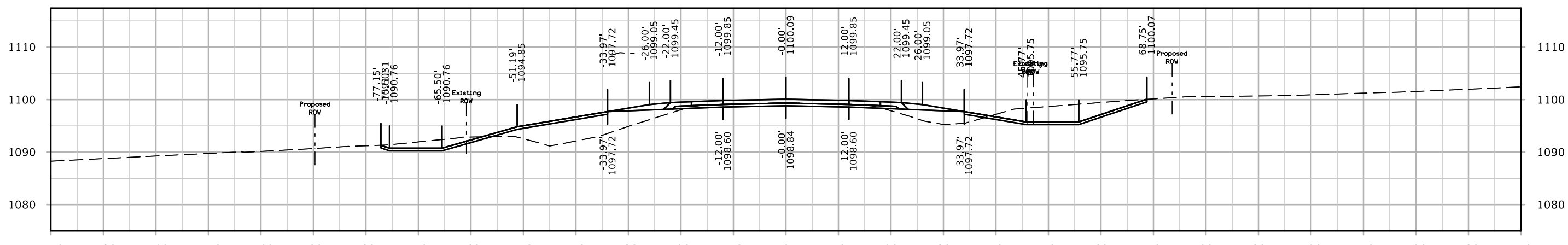
IA 13



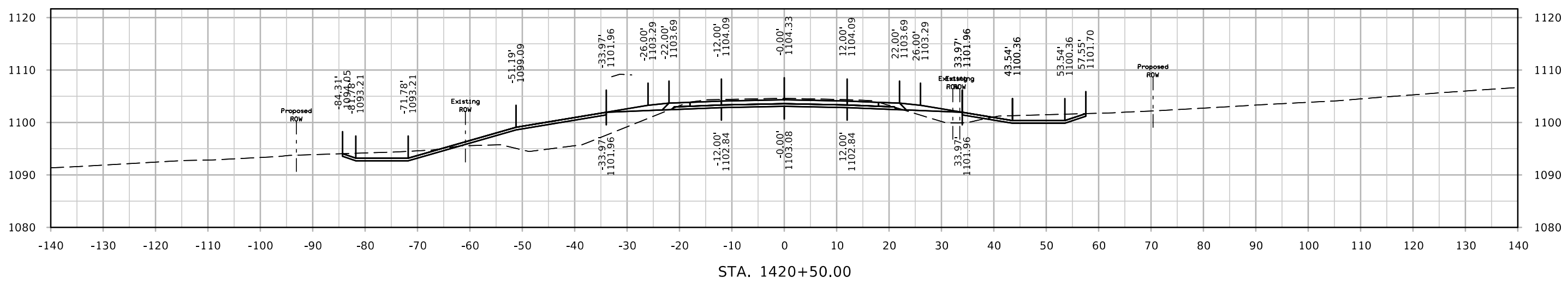
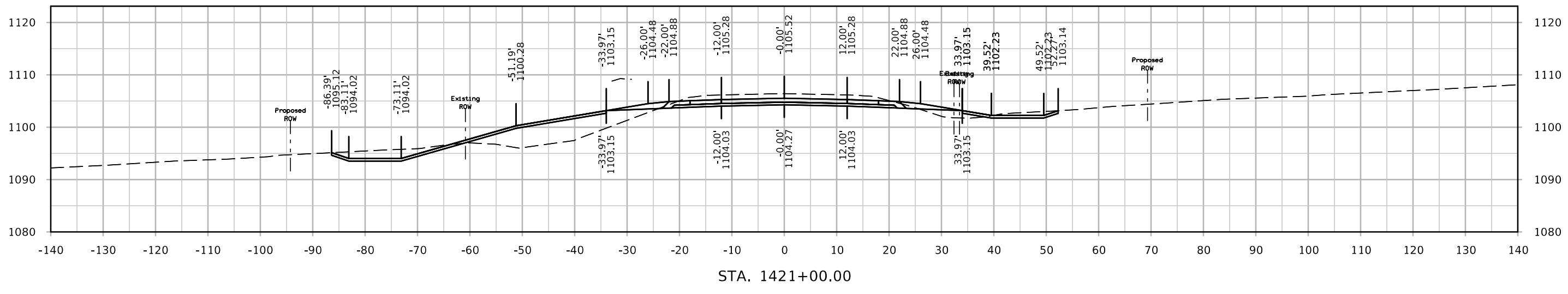
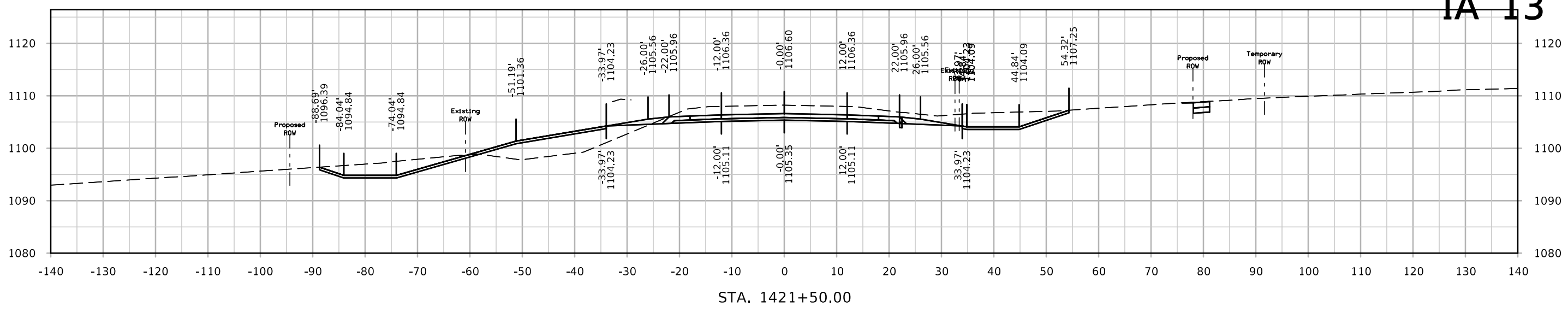
STA. 1420+00.00

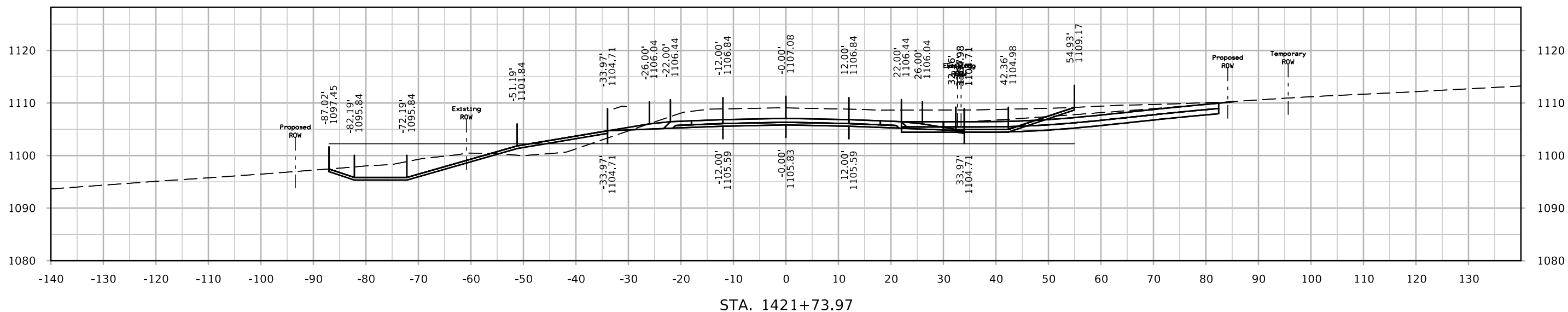
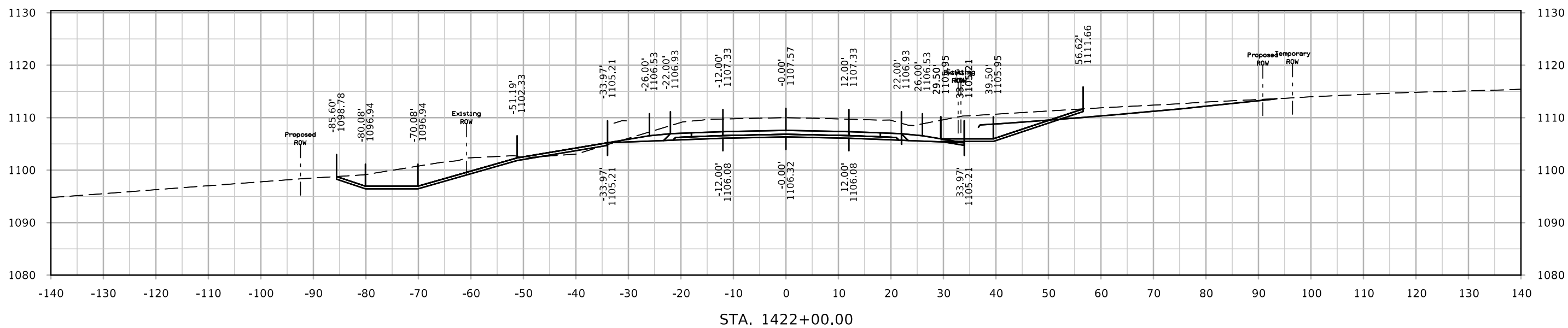


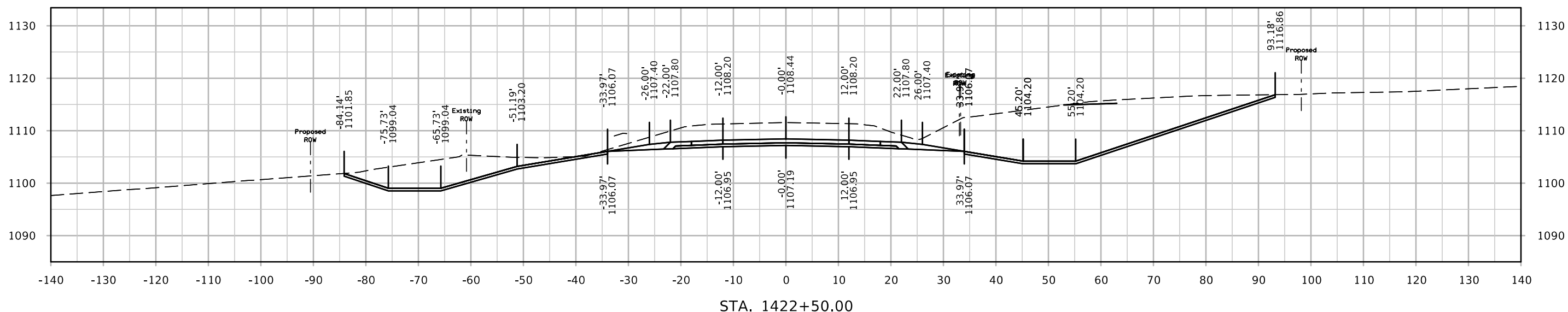
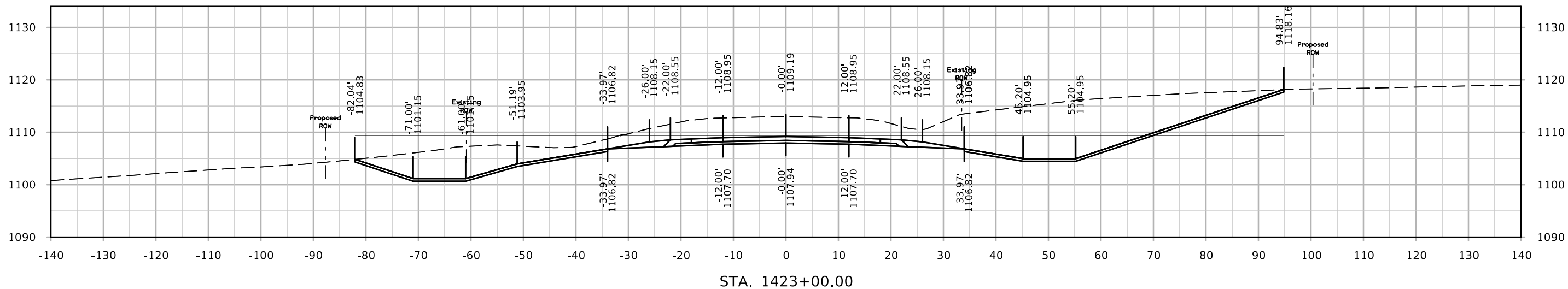
STA. 1419+50.00

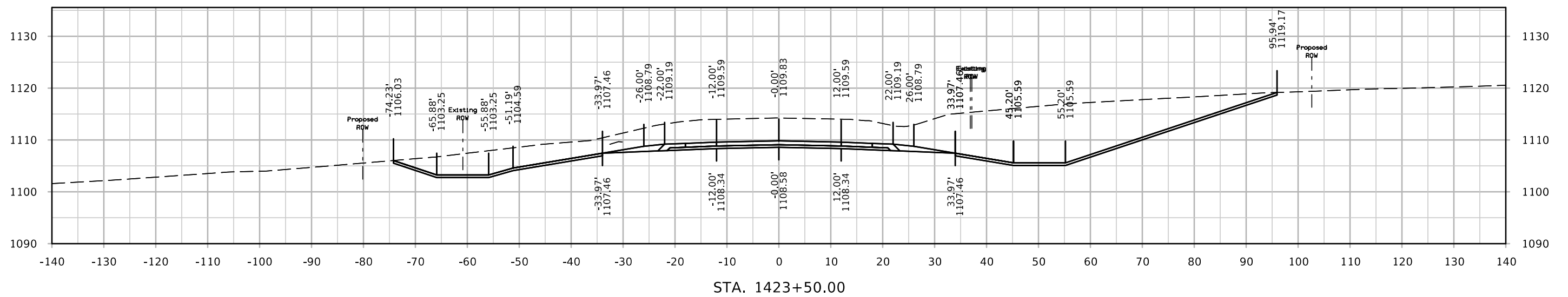
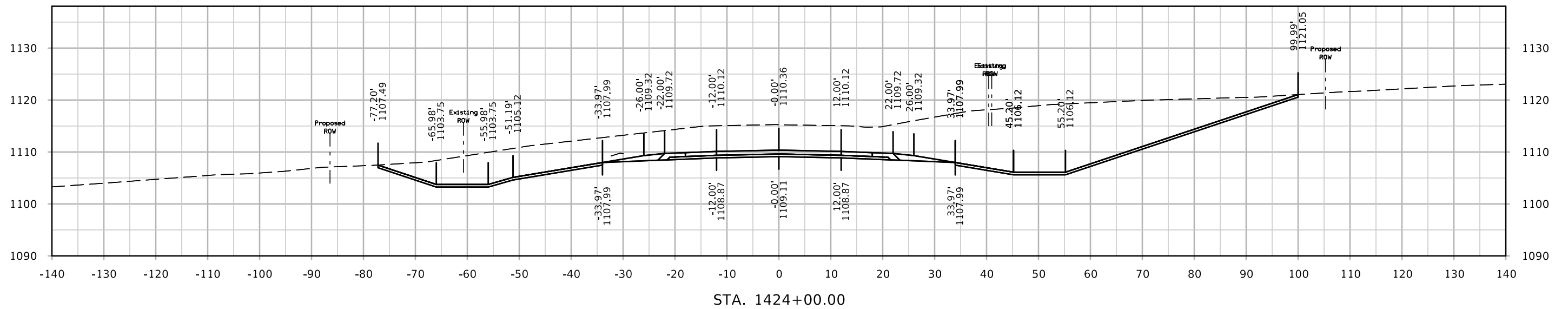


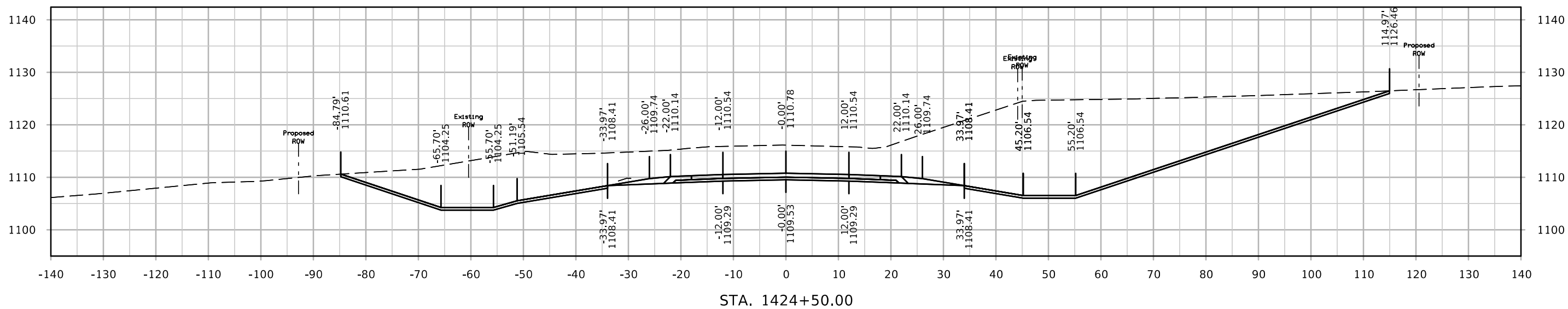
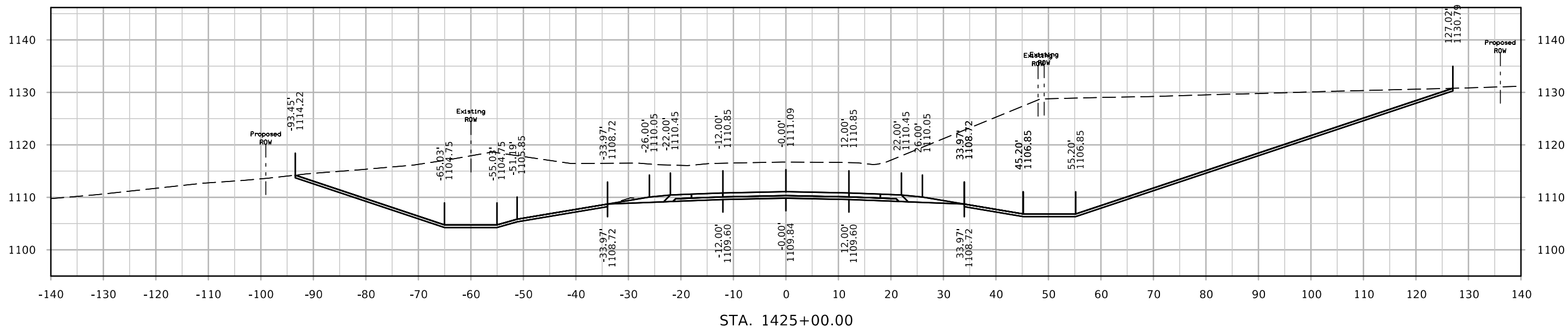
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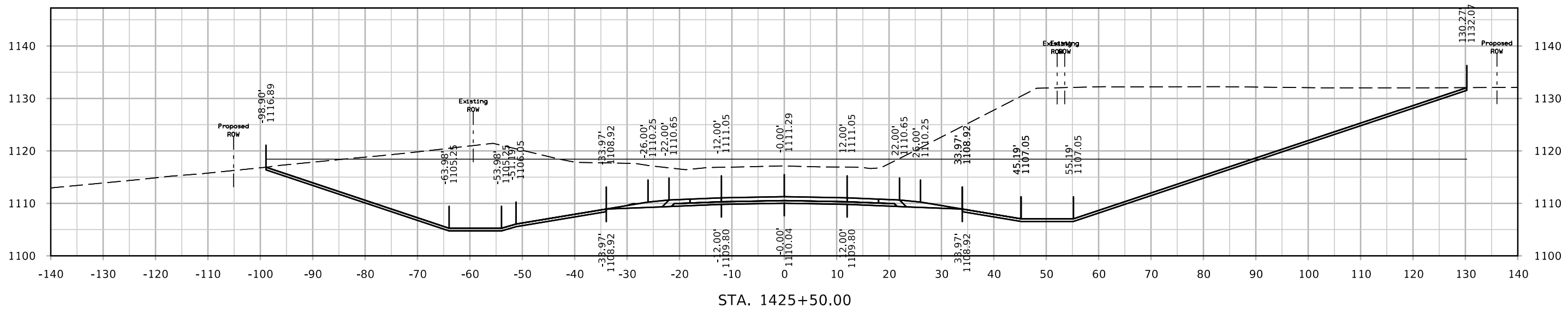
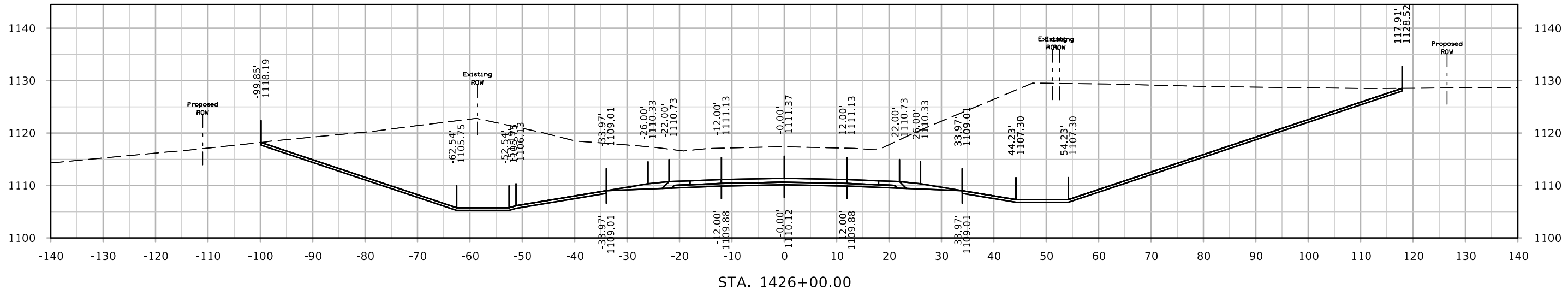
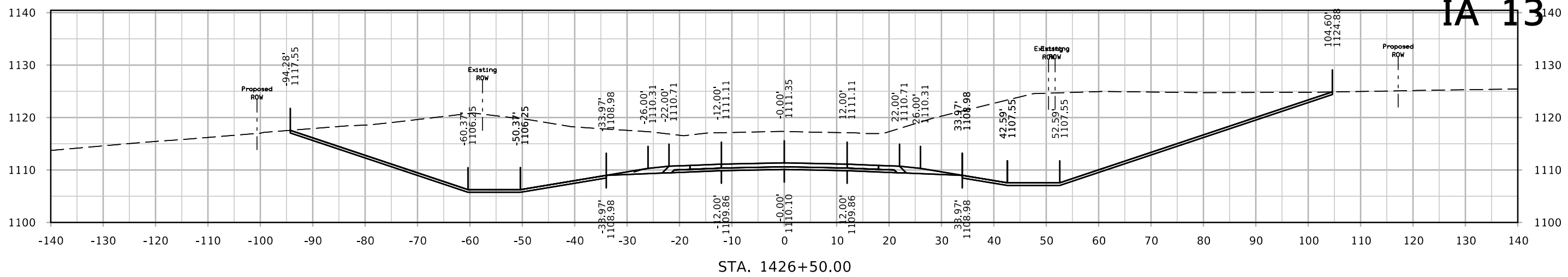


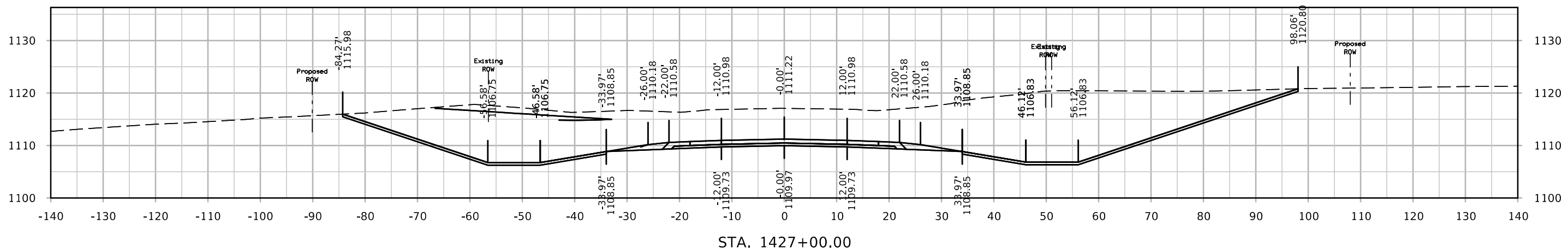
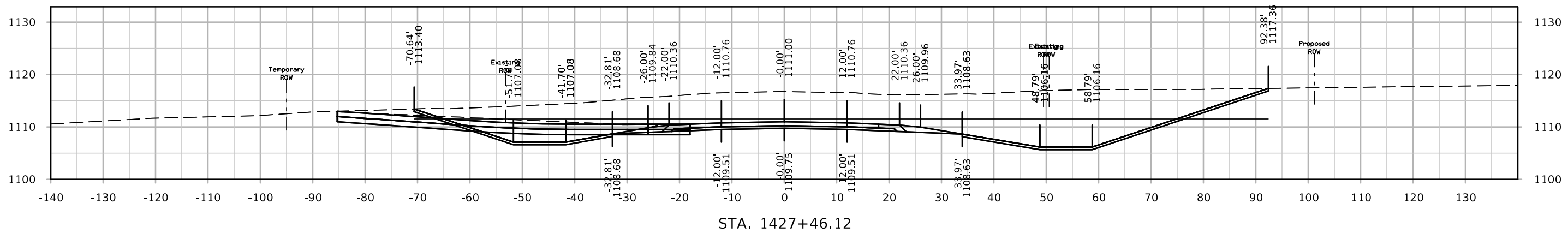
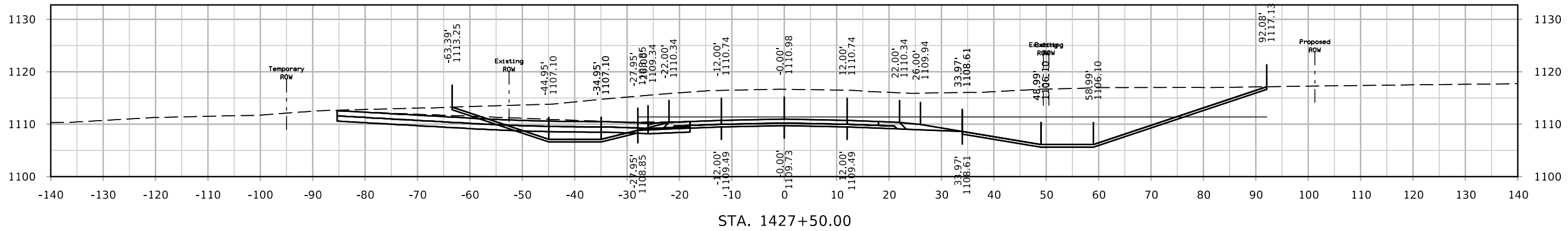


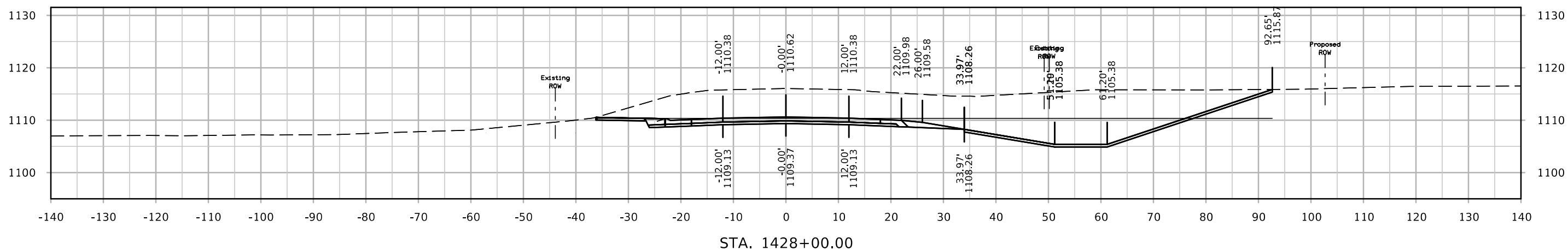
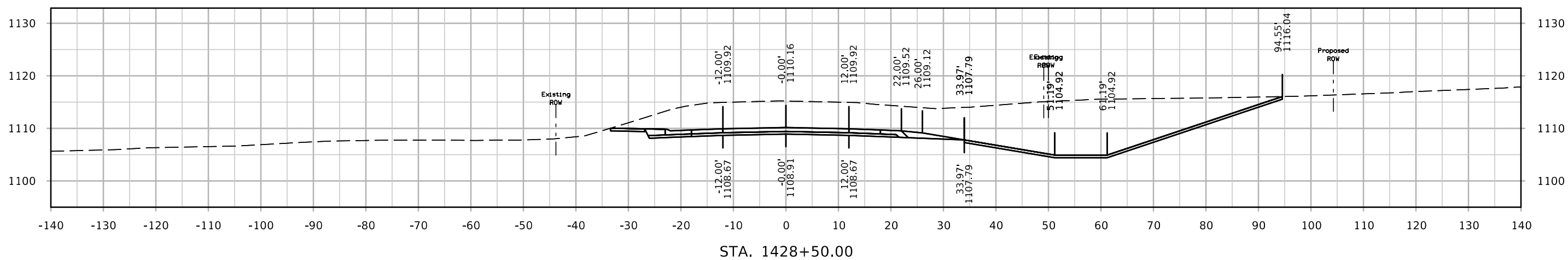
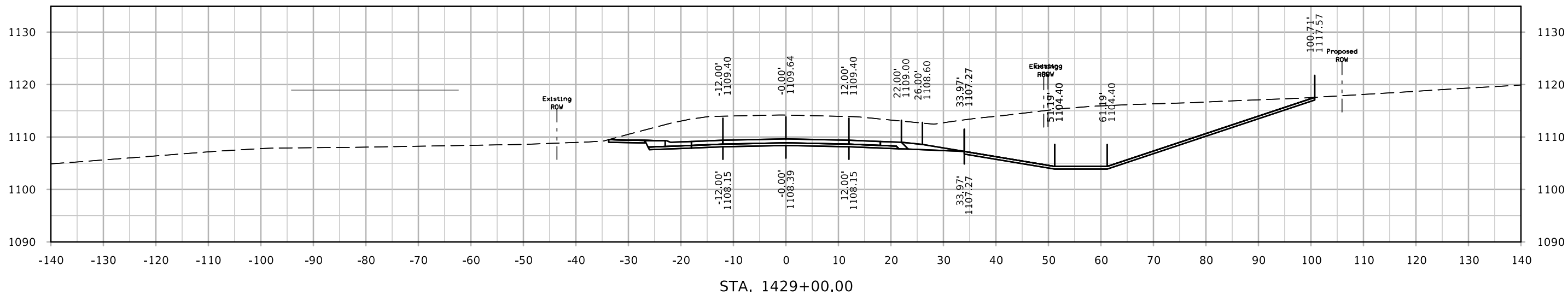




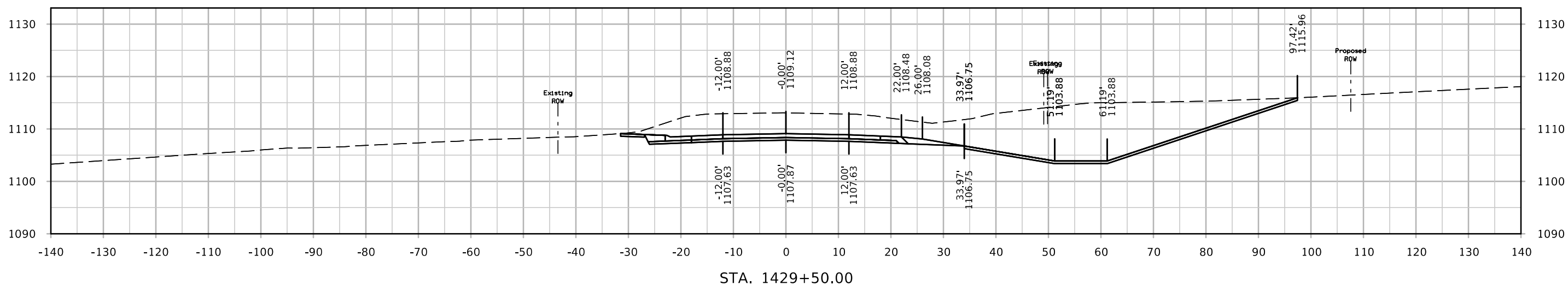
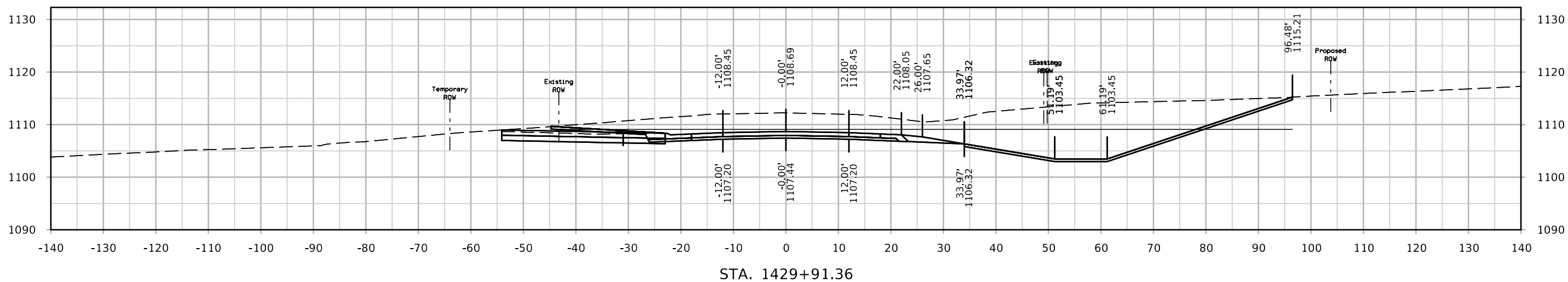
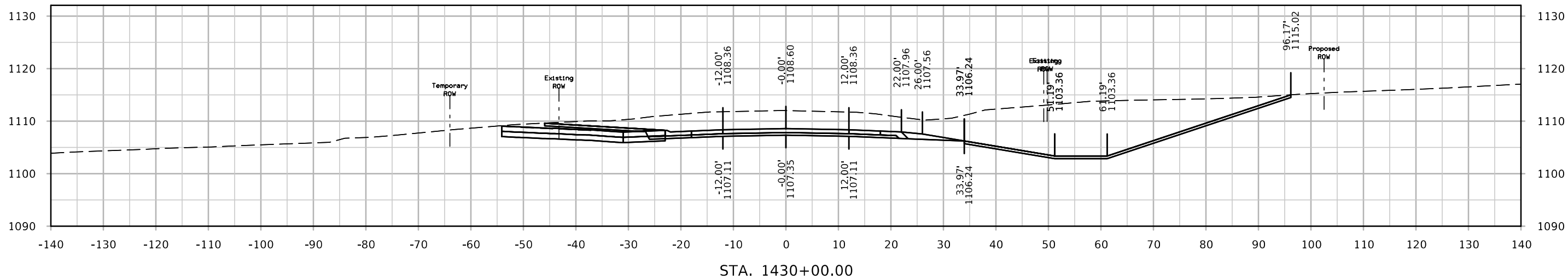


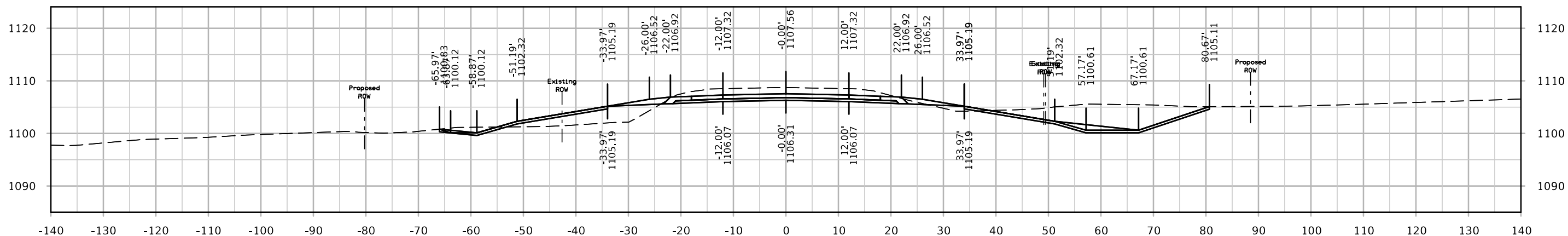




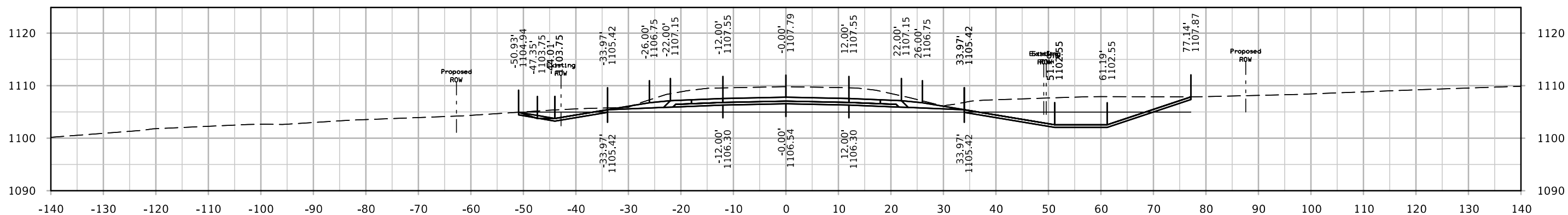


IA 13

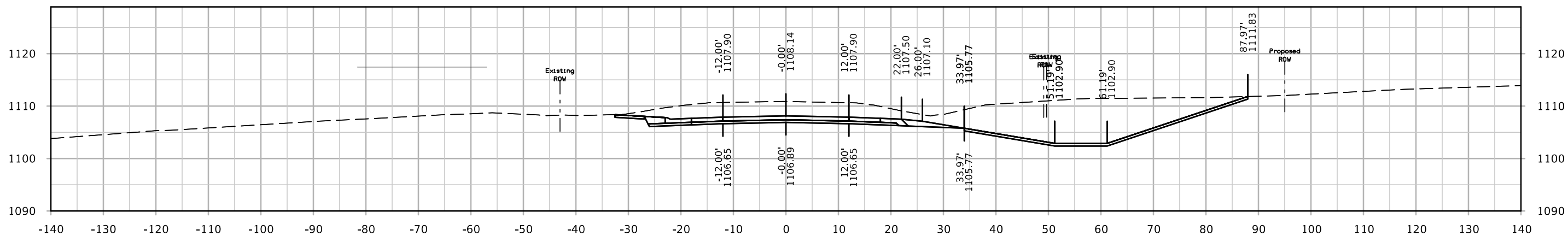




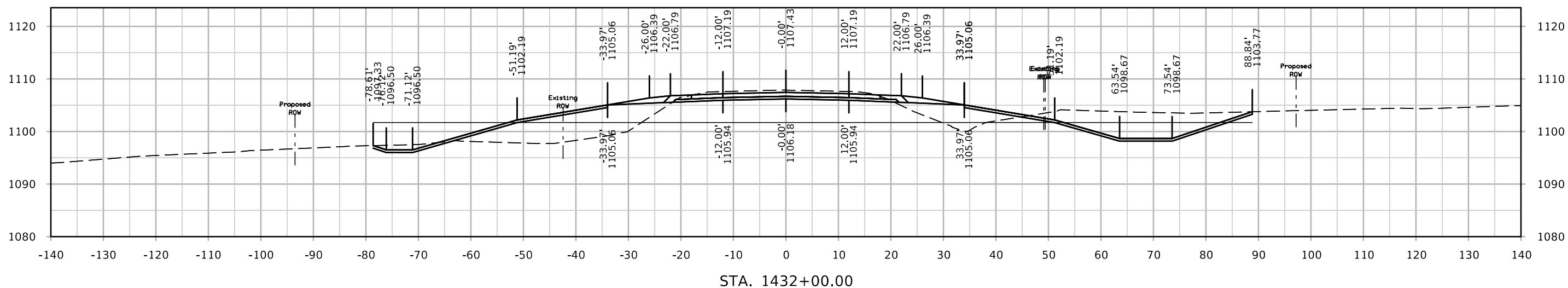
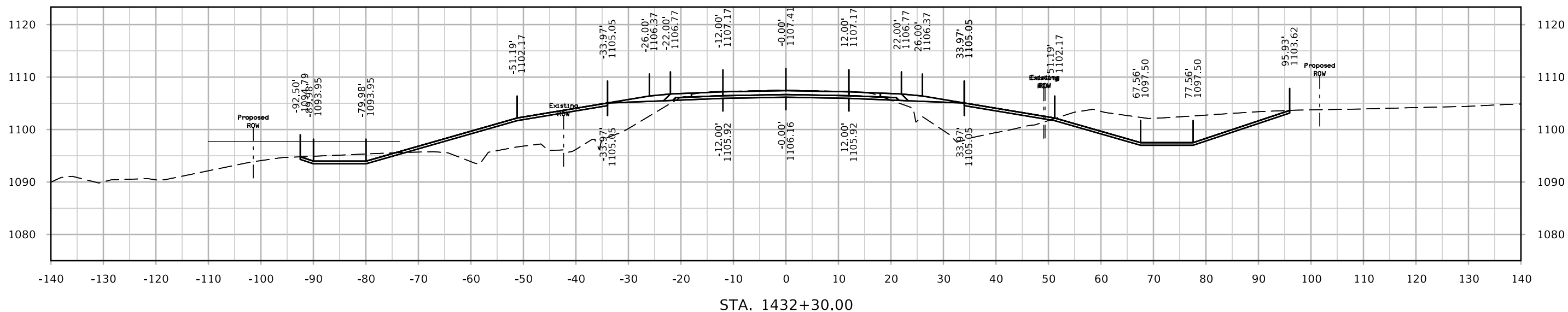
STA. 1431+50.00

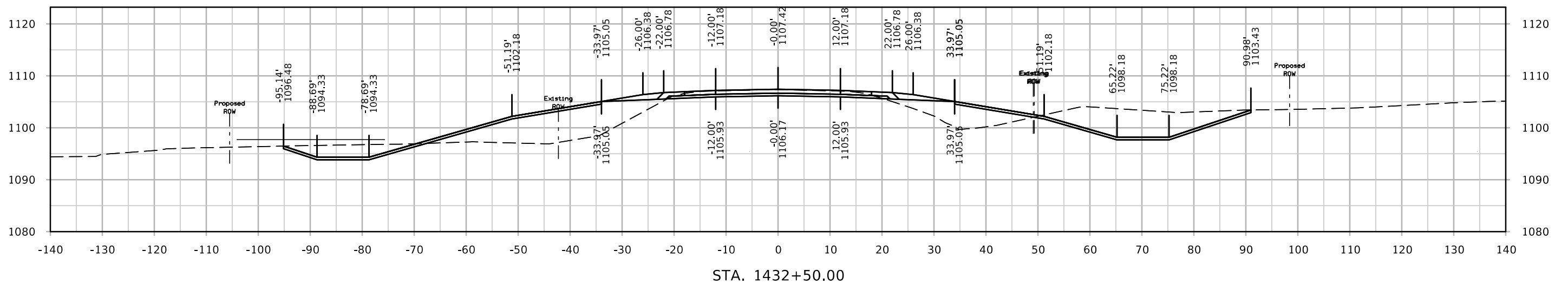
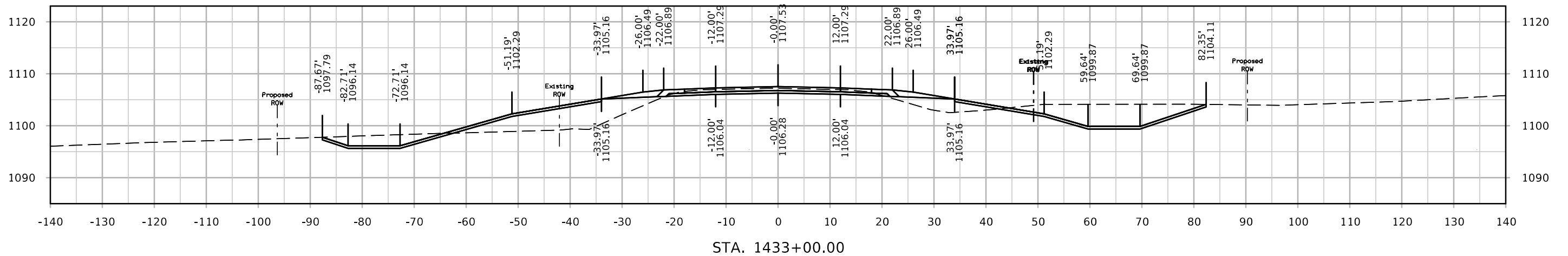
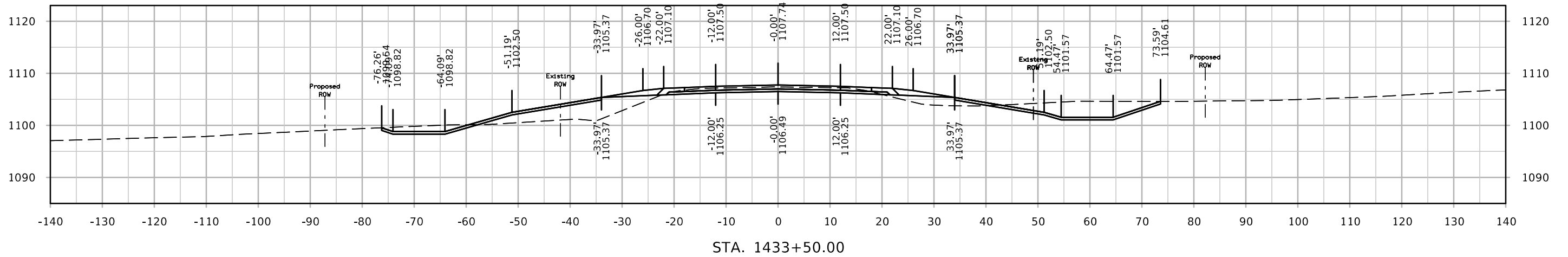


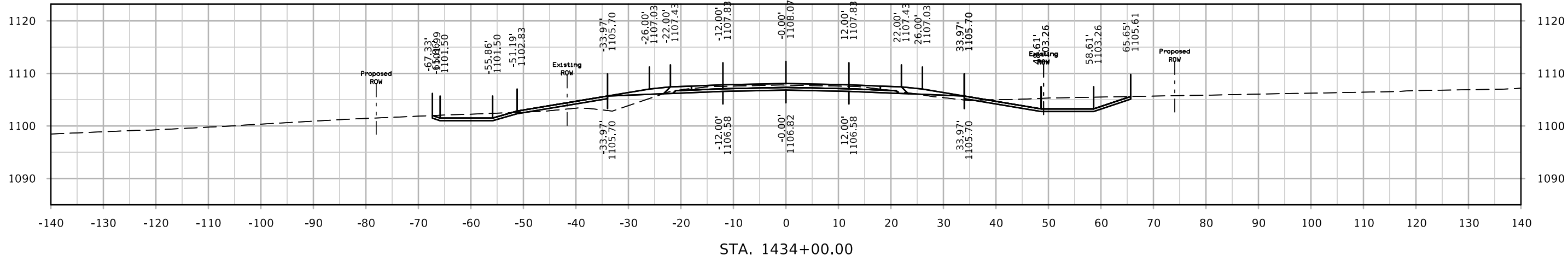
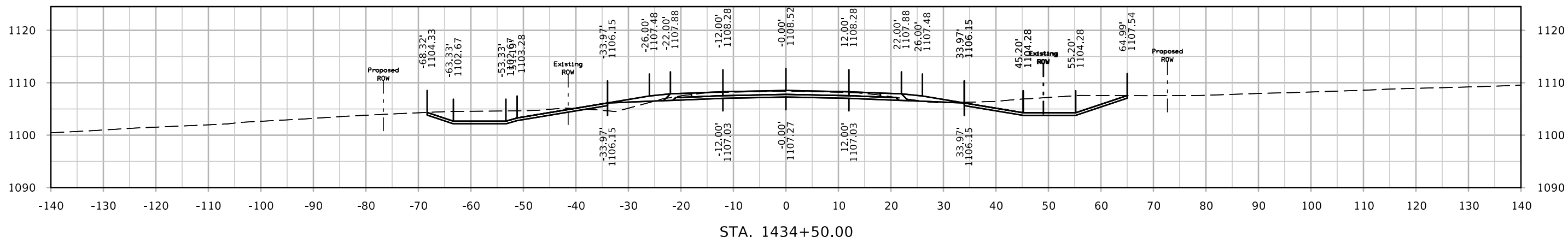
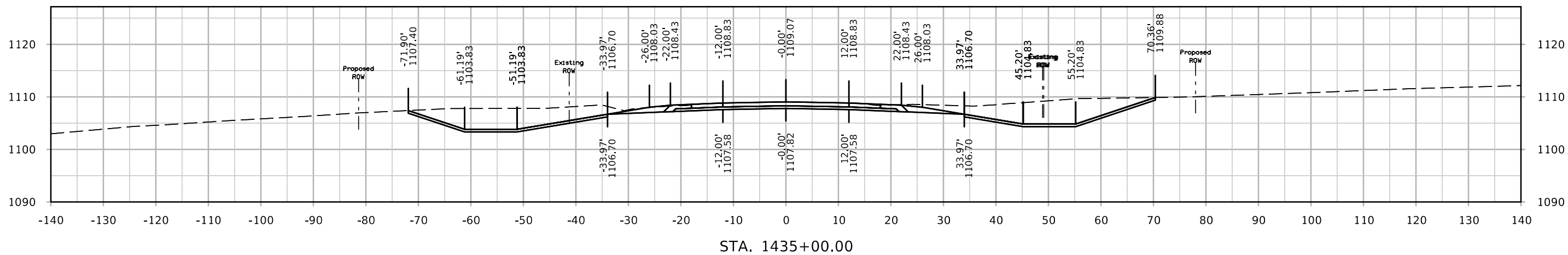
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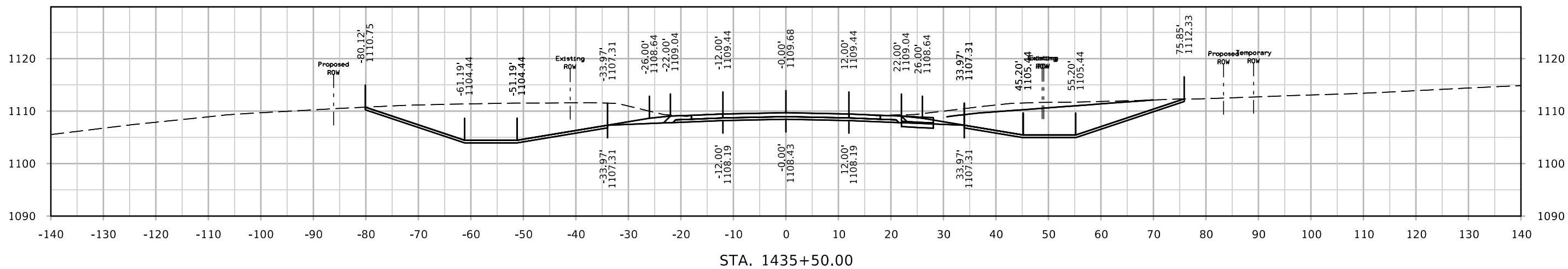
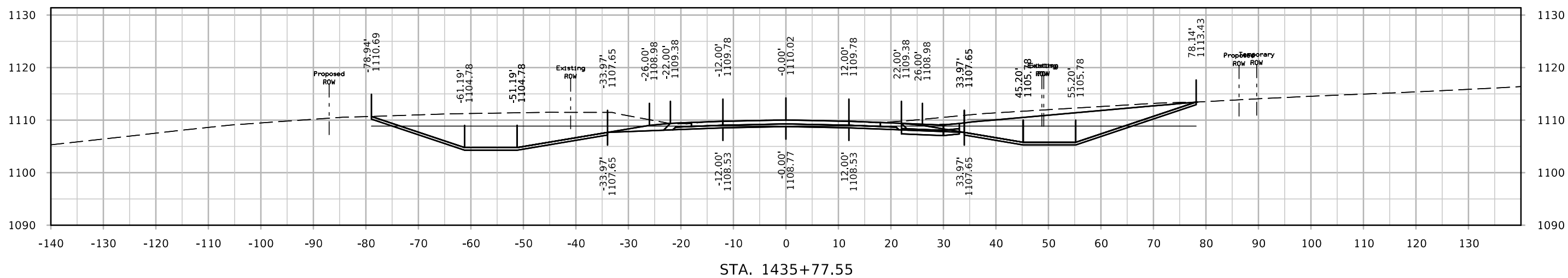
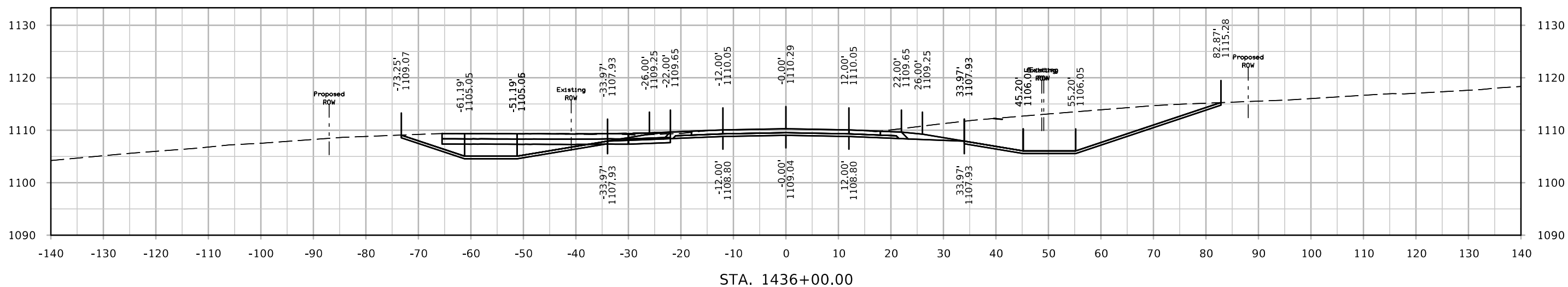


STA. 1430+50.00

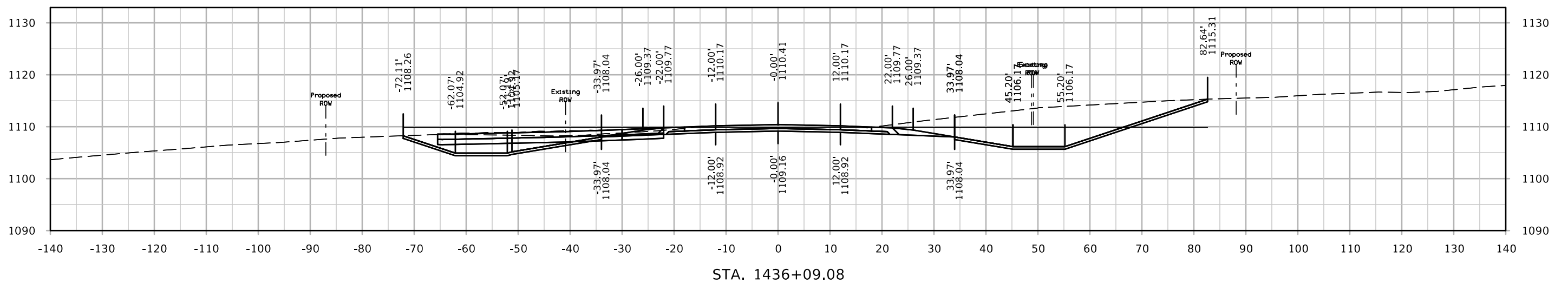
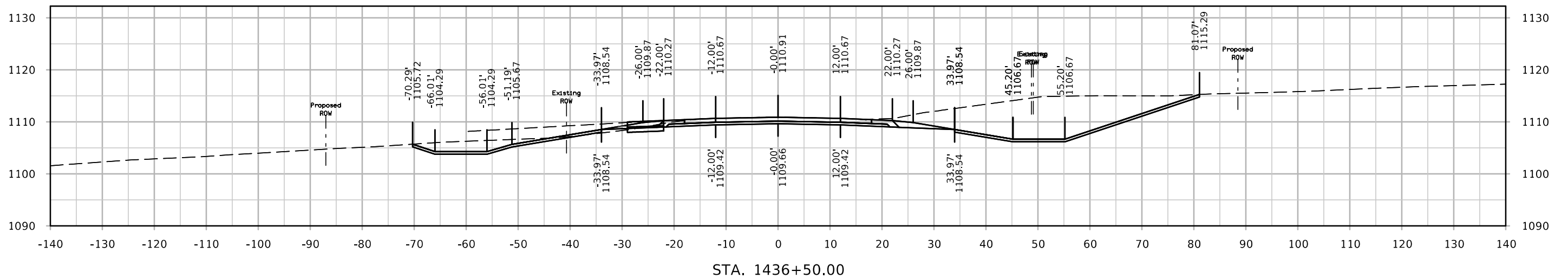
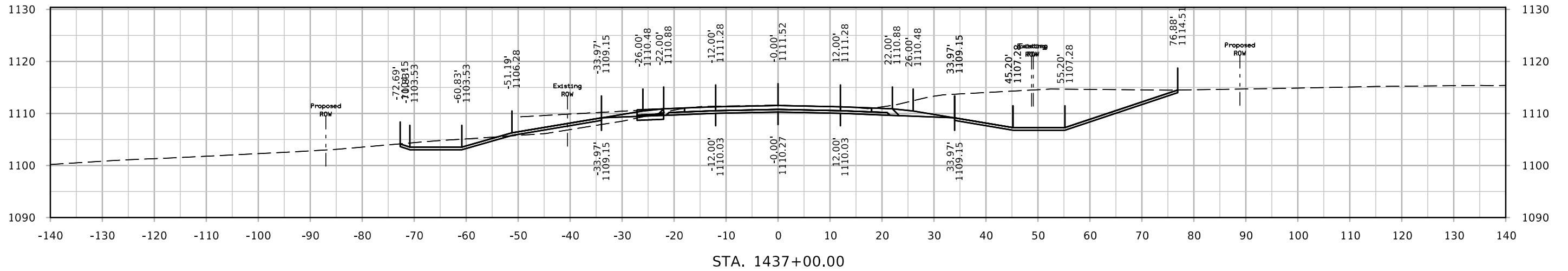




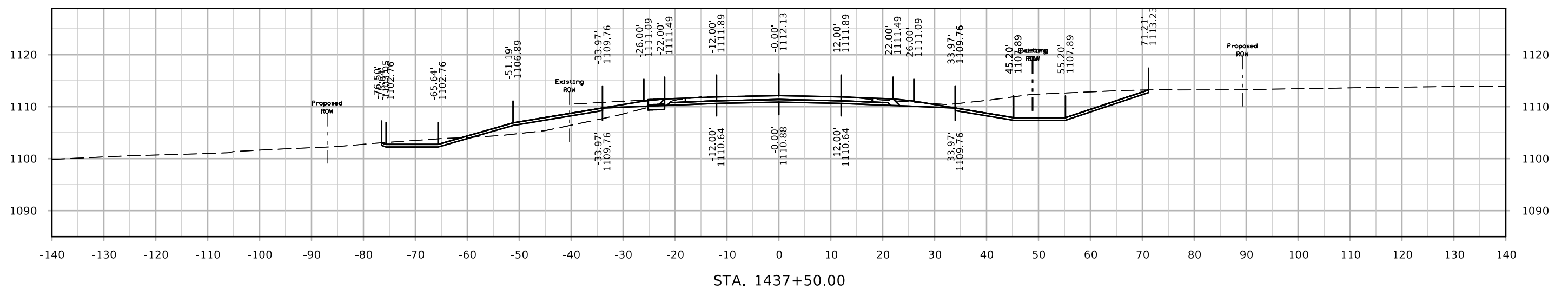
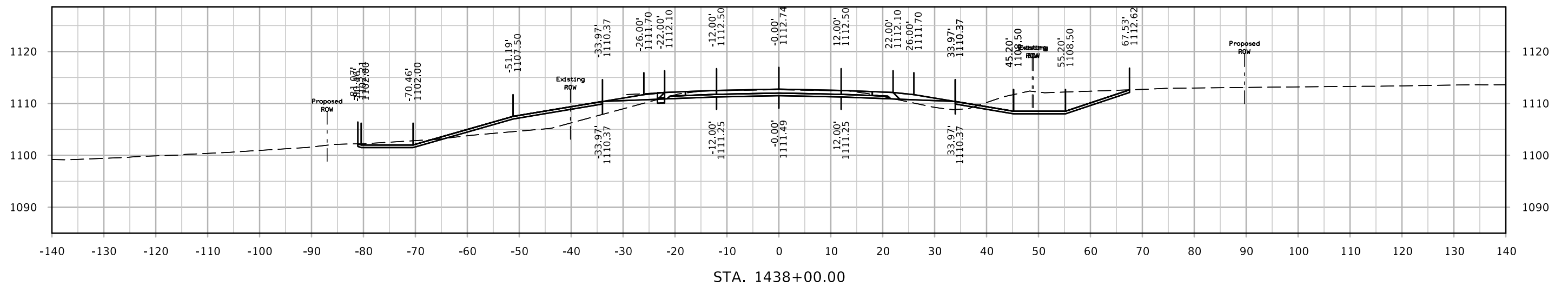
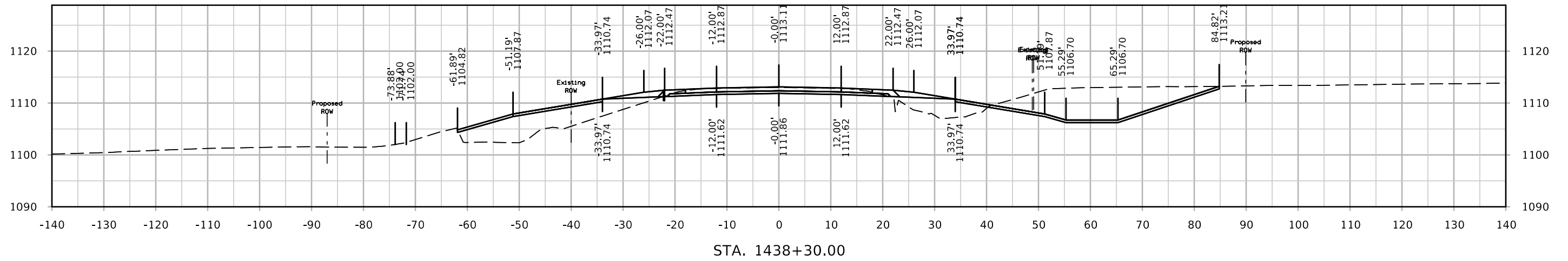


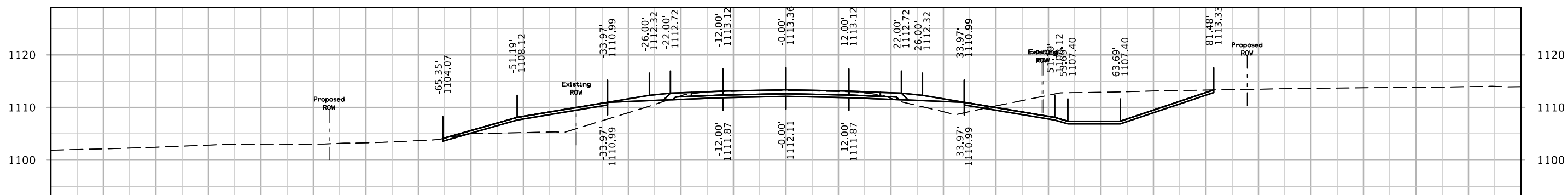
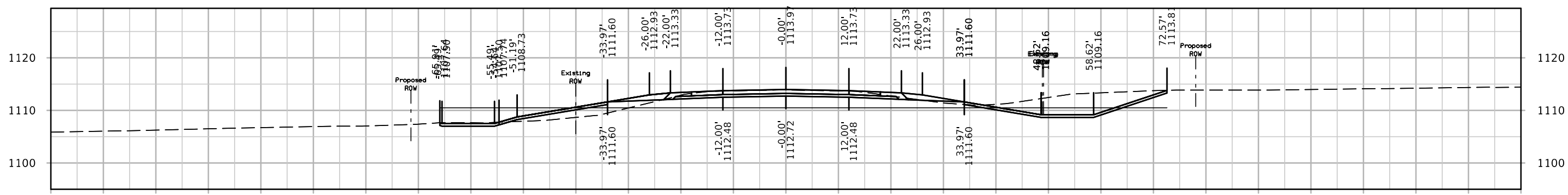
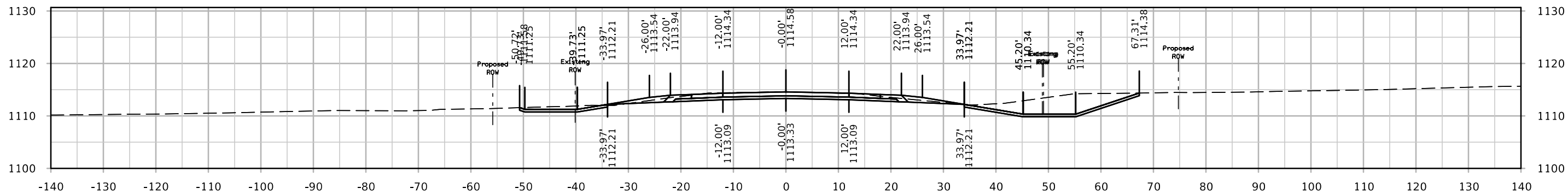


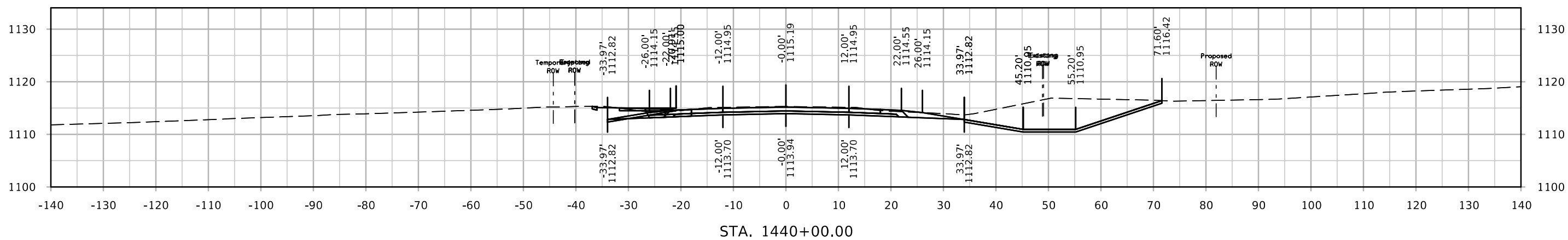
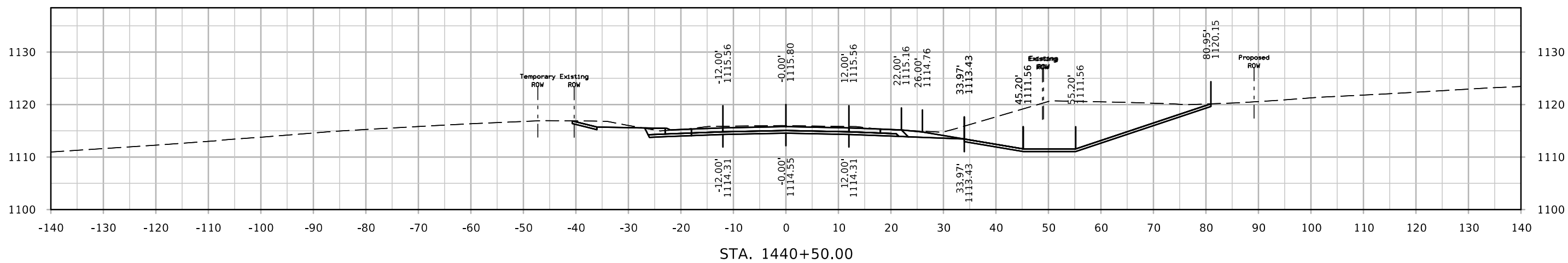
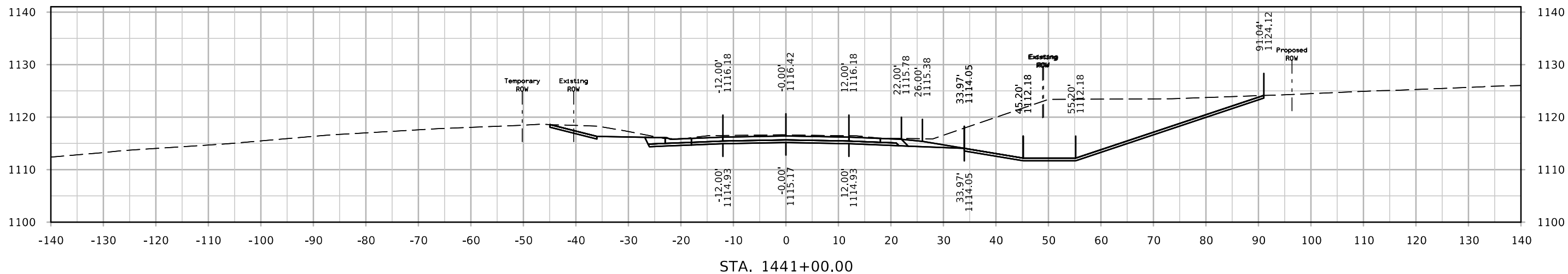
IA 13



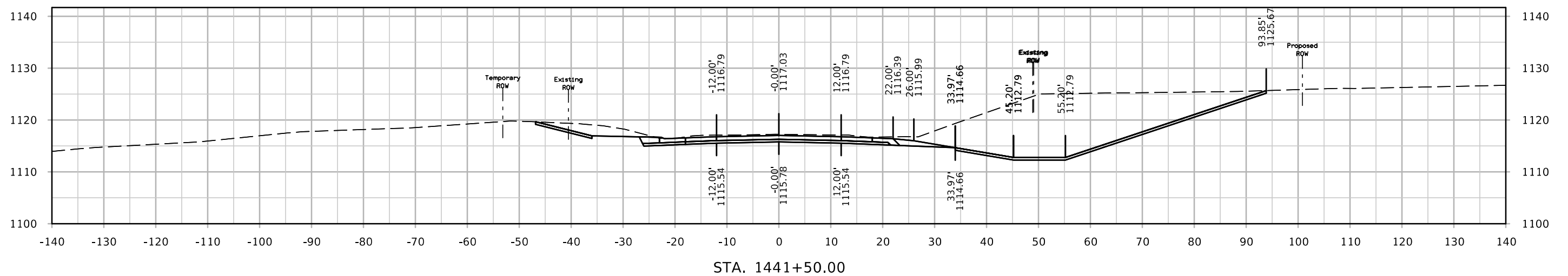
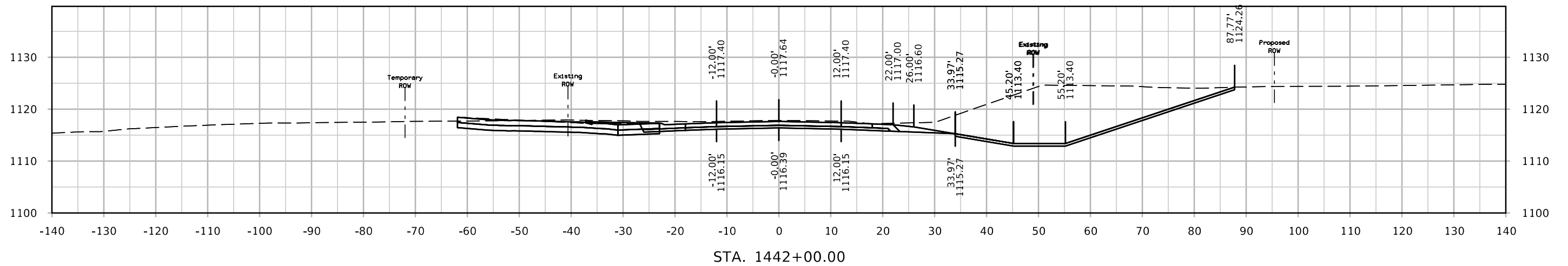
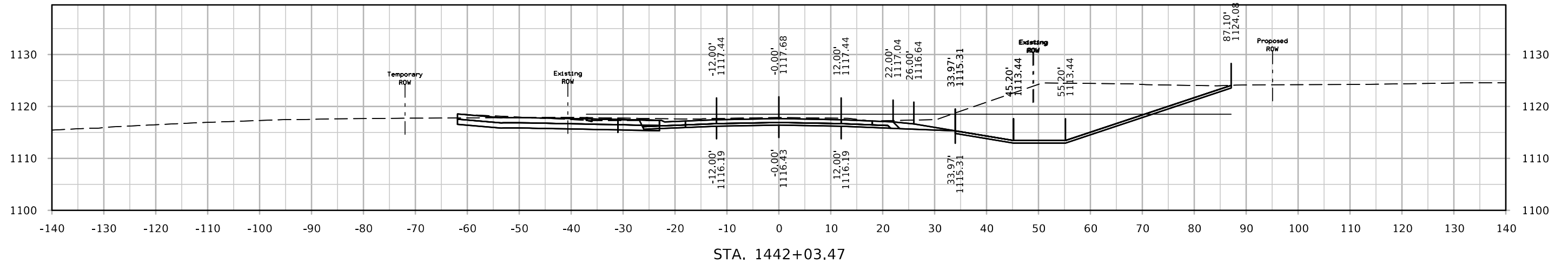
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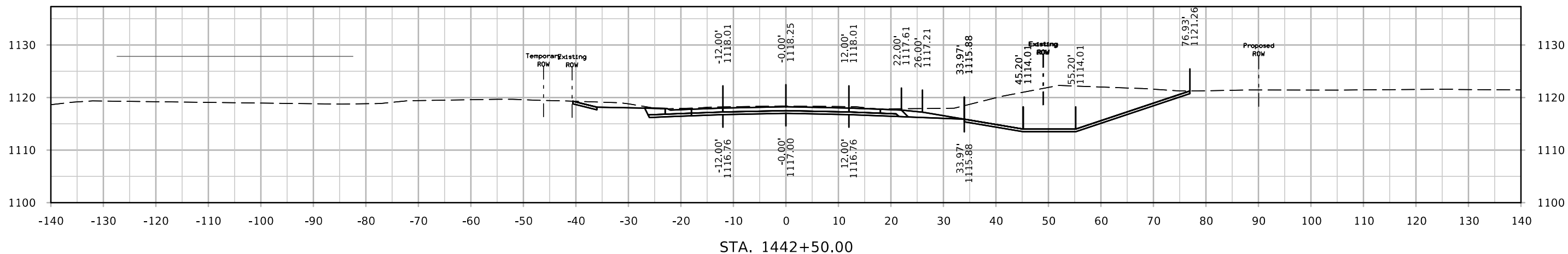
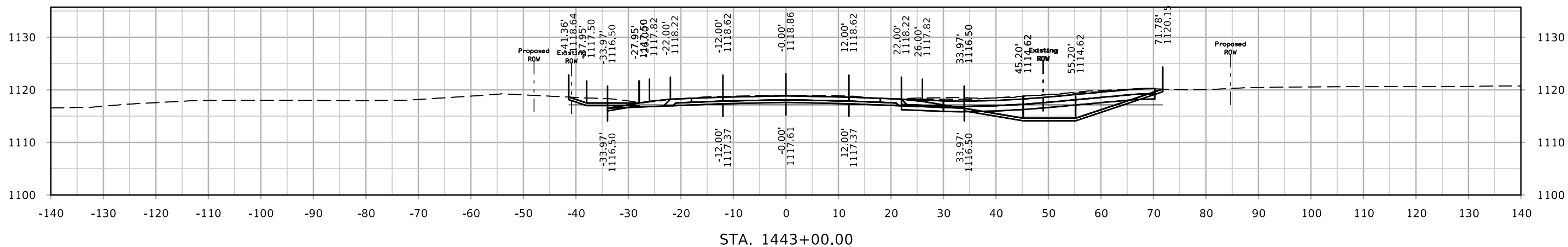
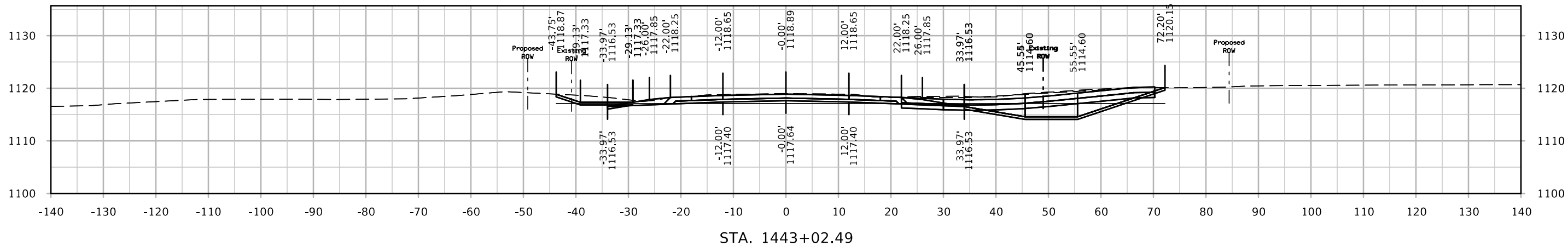


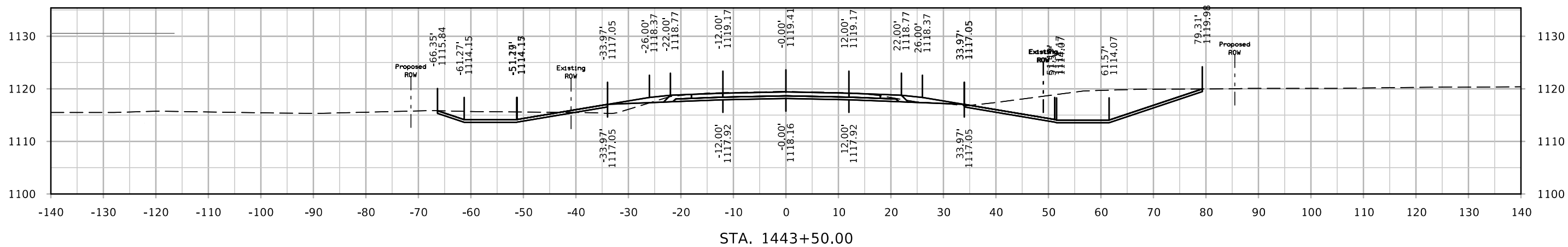
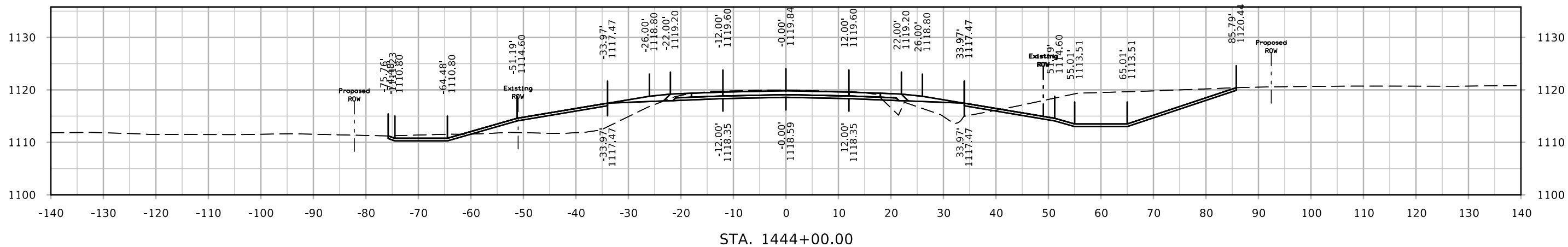
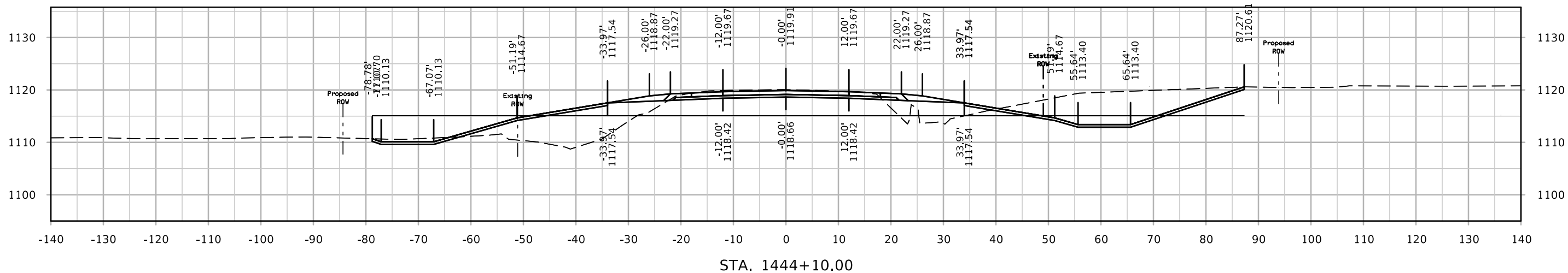


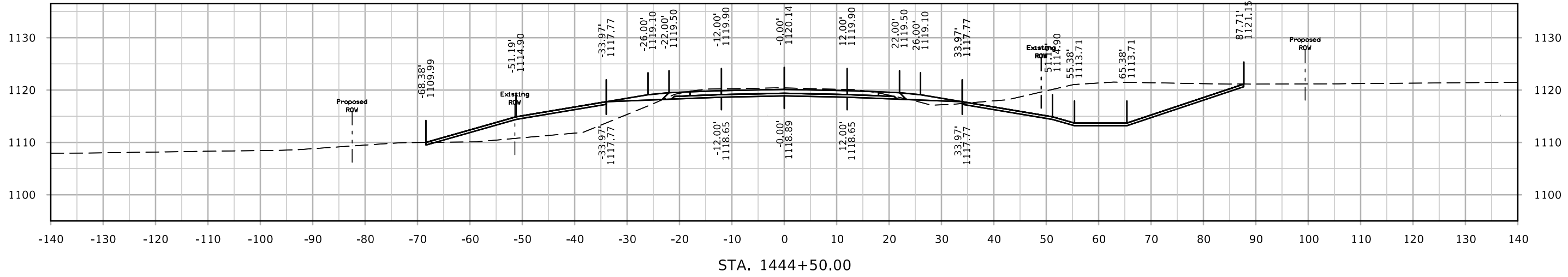
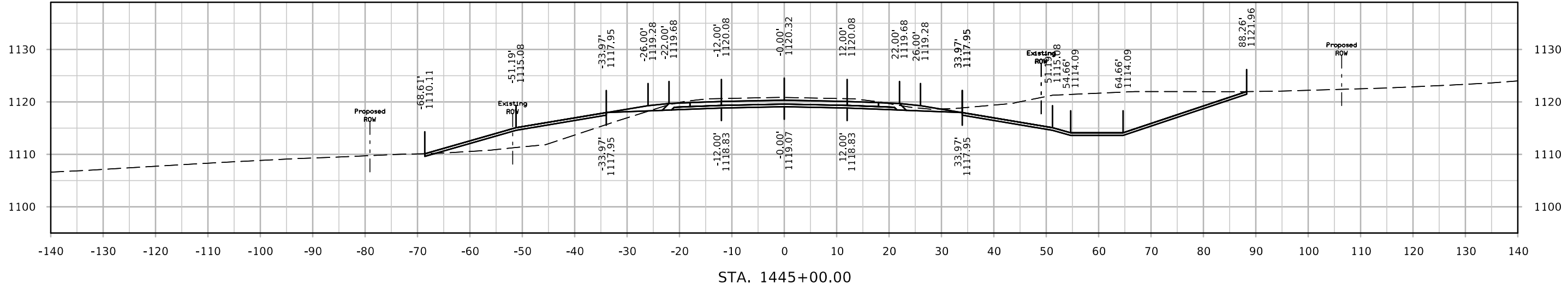
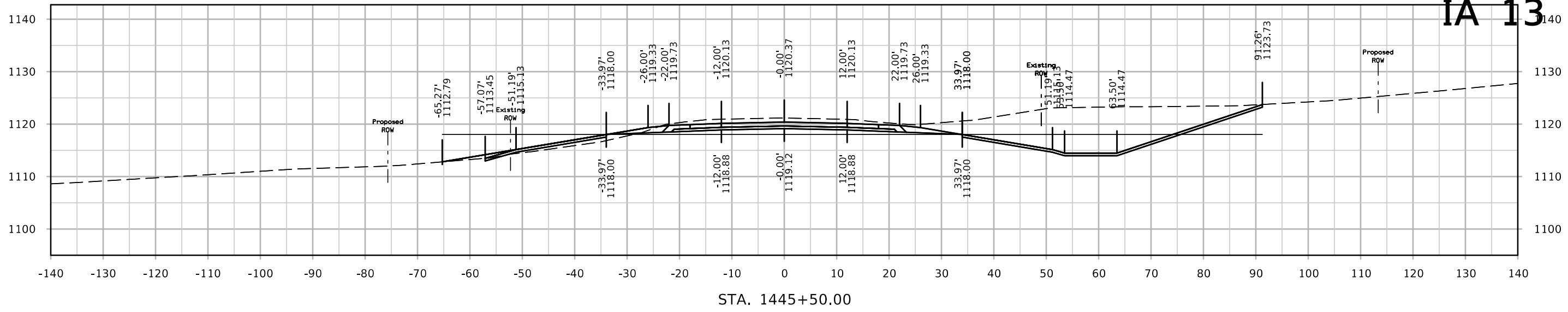


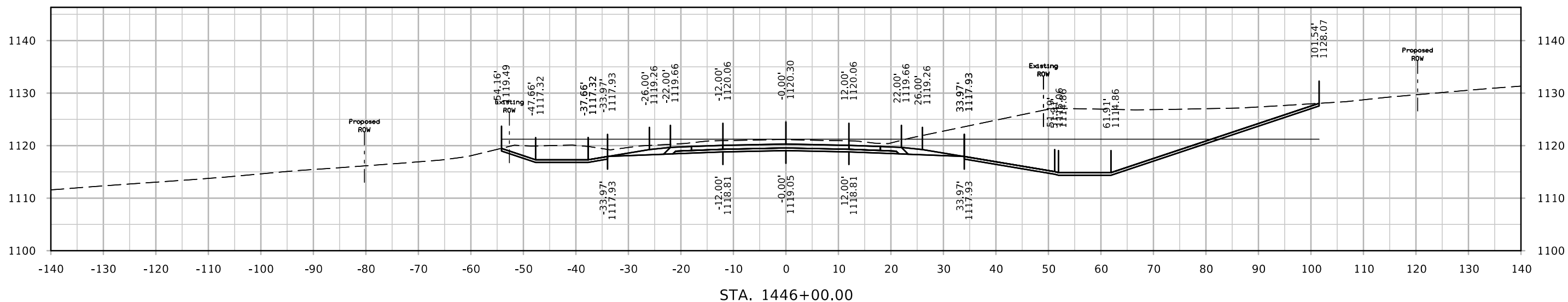
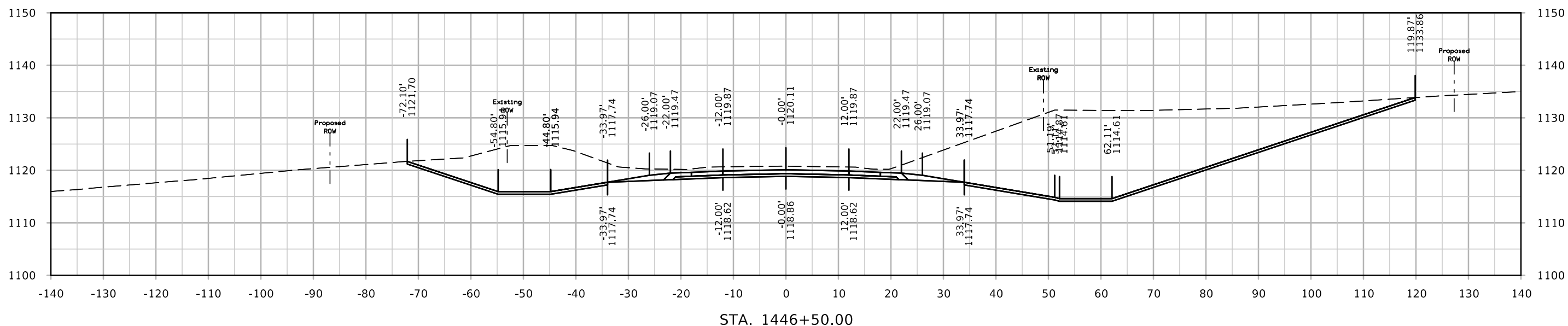
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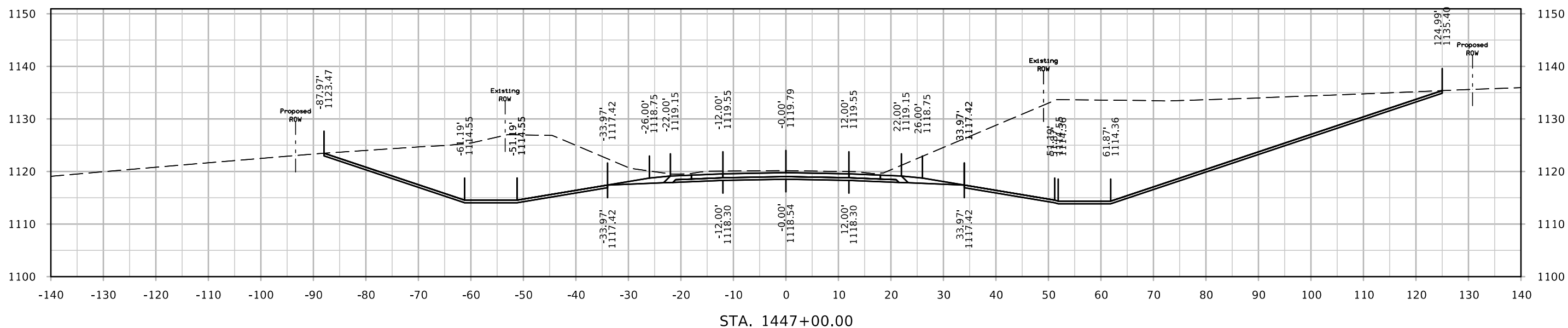
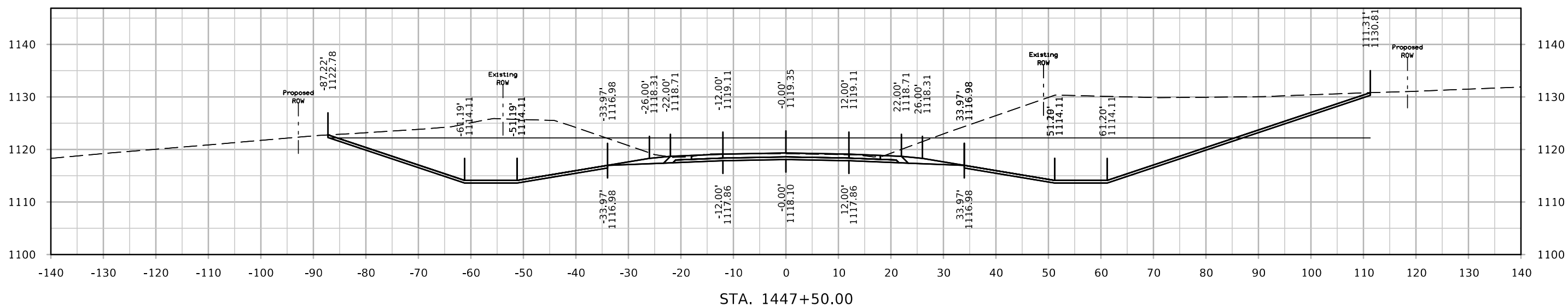


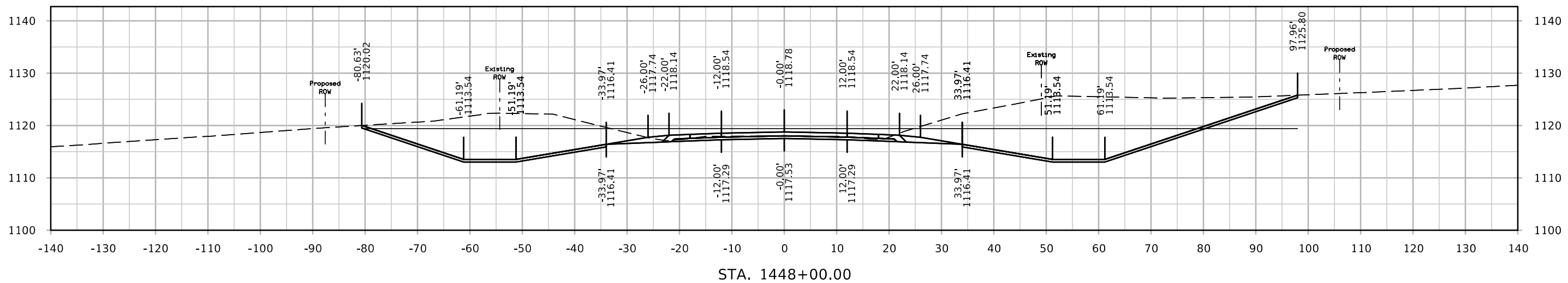
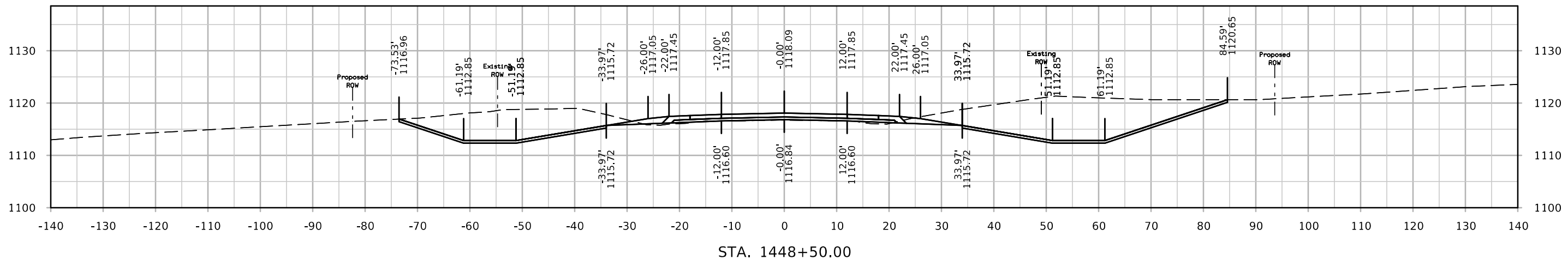
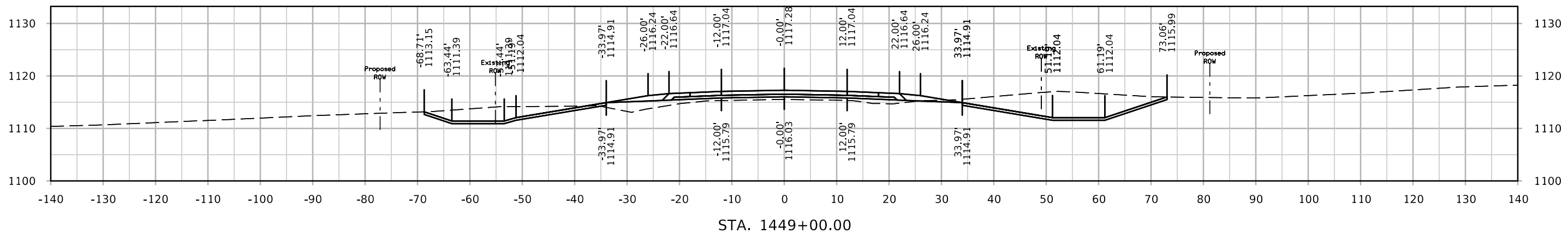


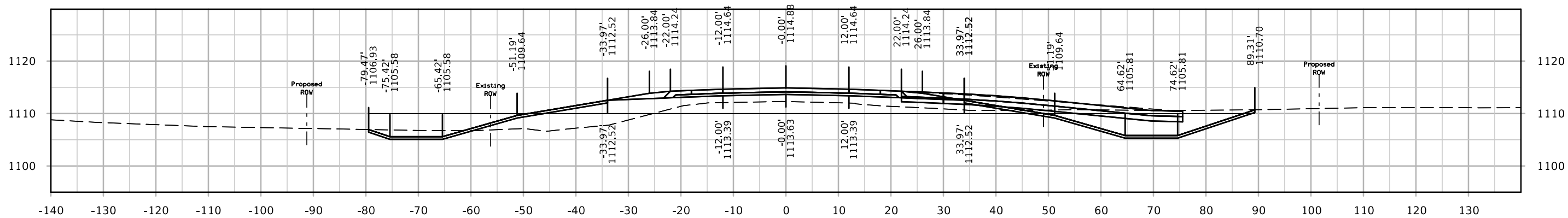




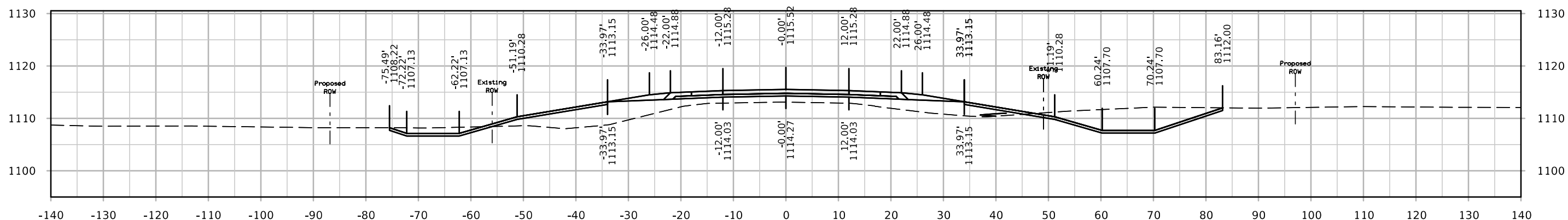




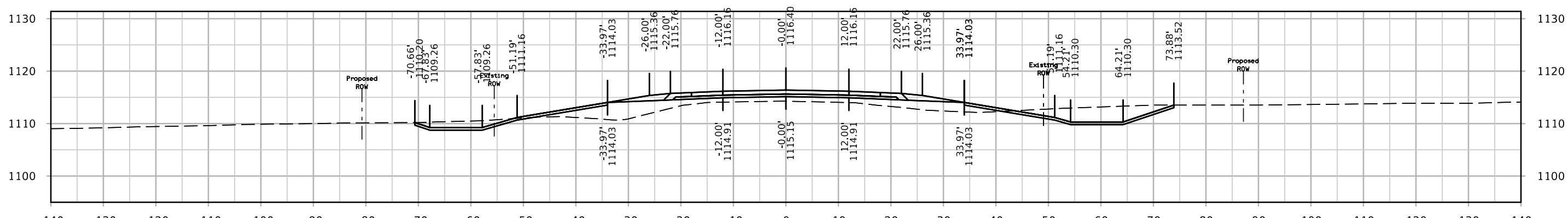




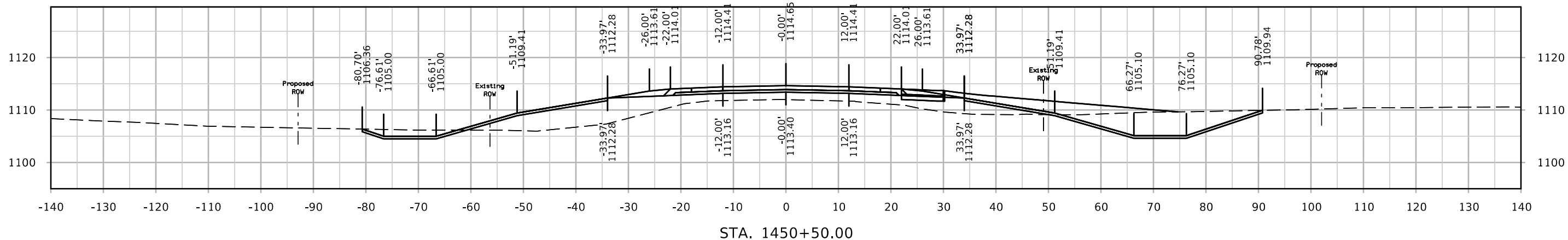
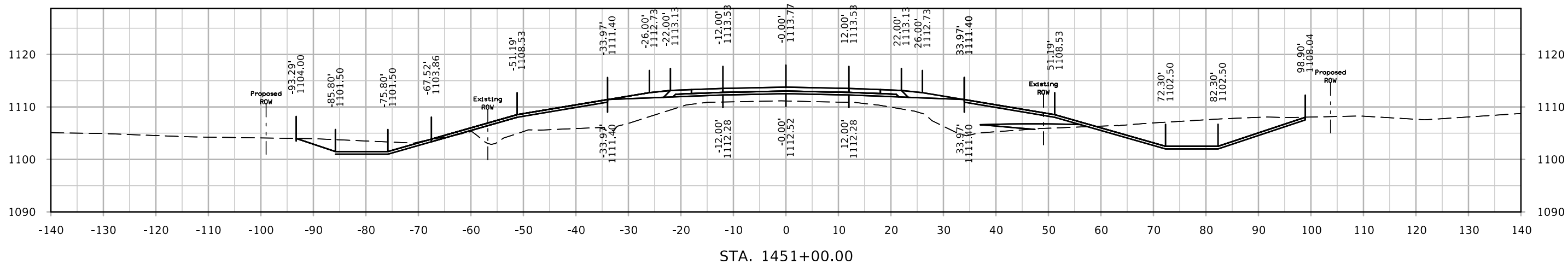
STA. 1450+36.37

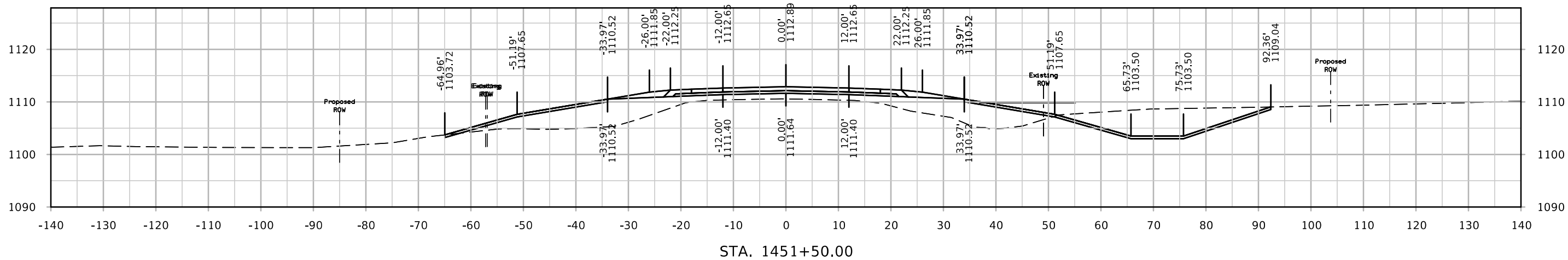
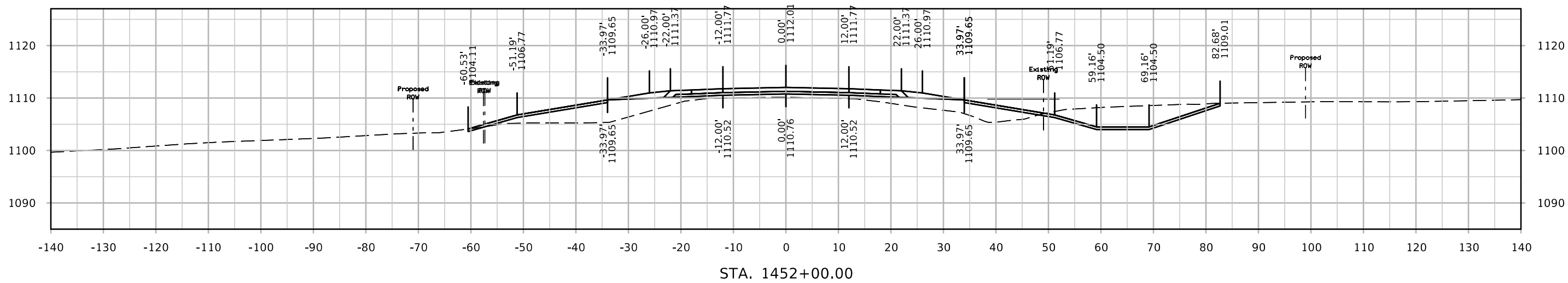
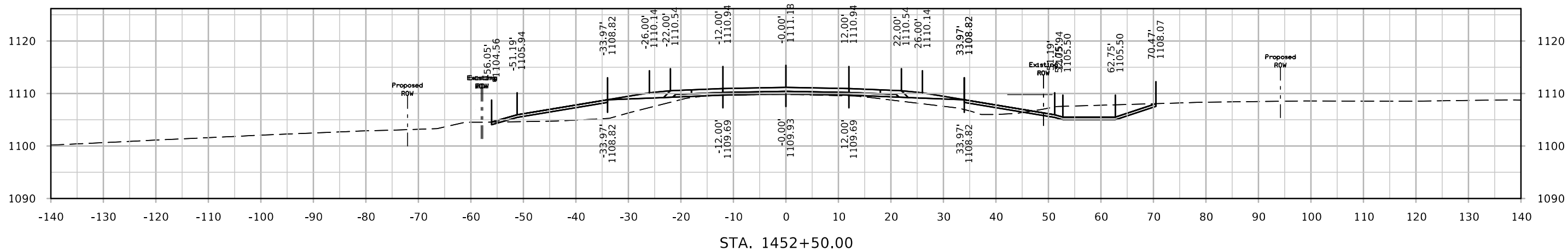


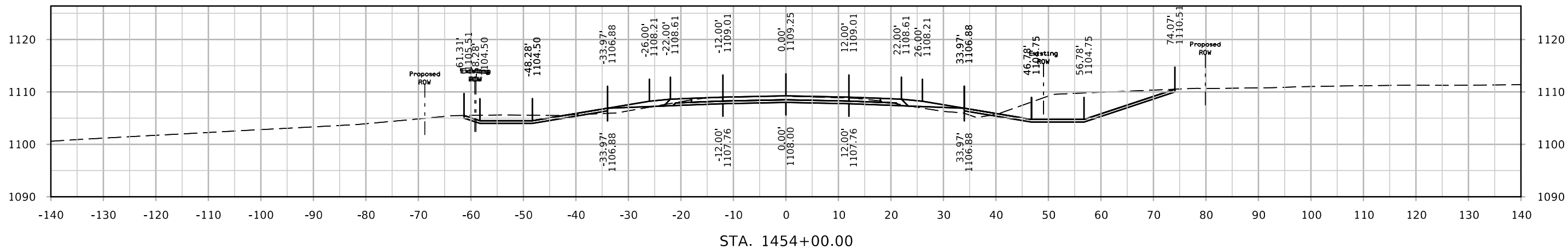
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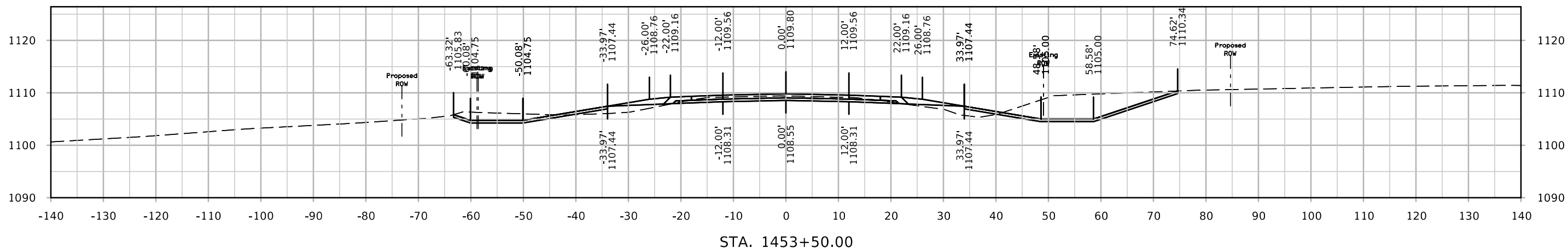
STA. 1449+50.00



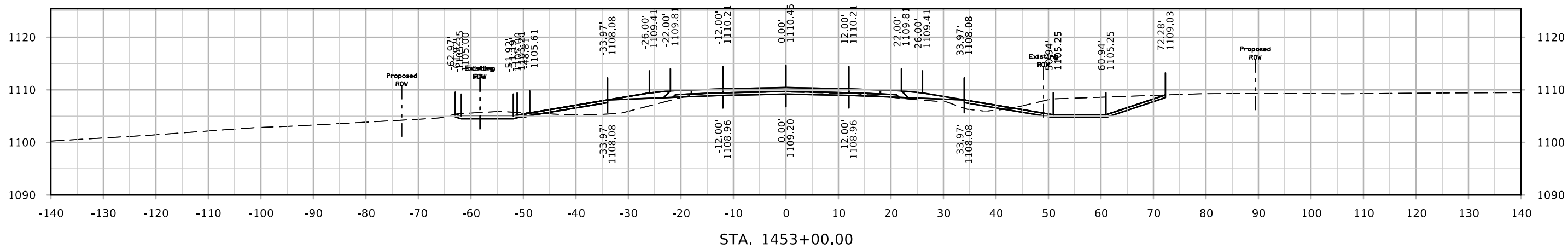




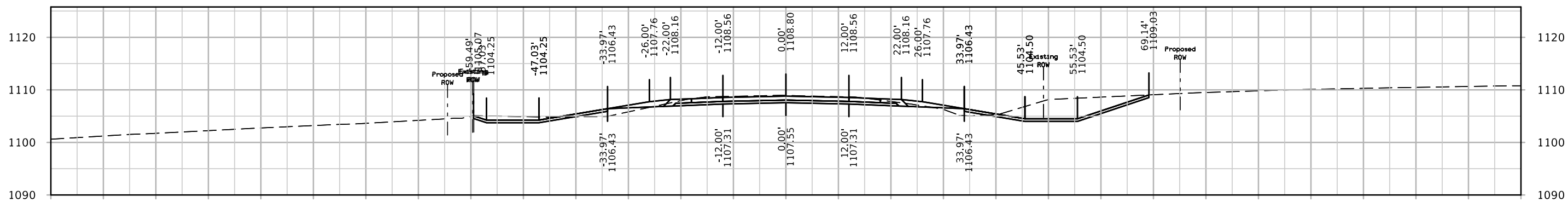
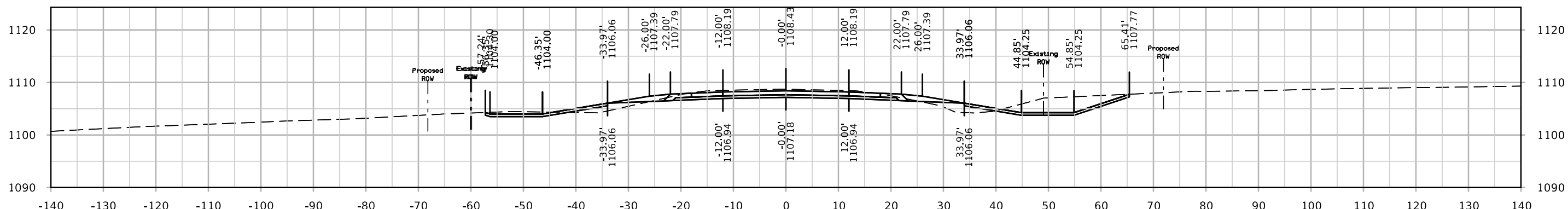
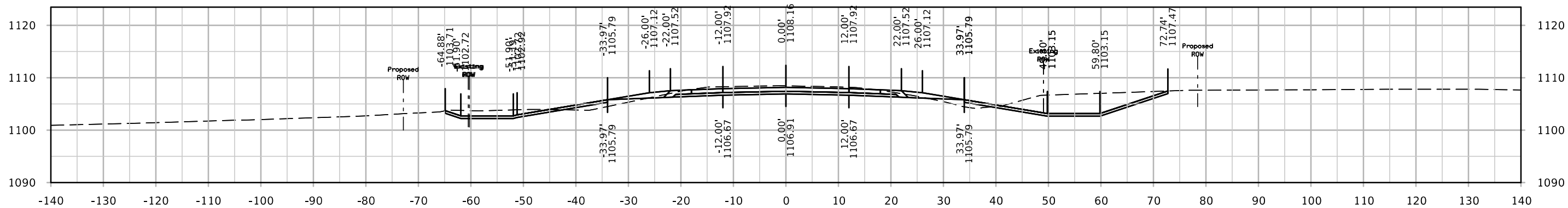
STA. 1454+00.00

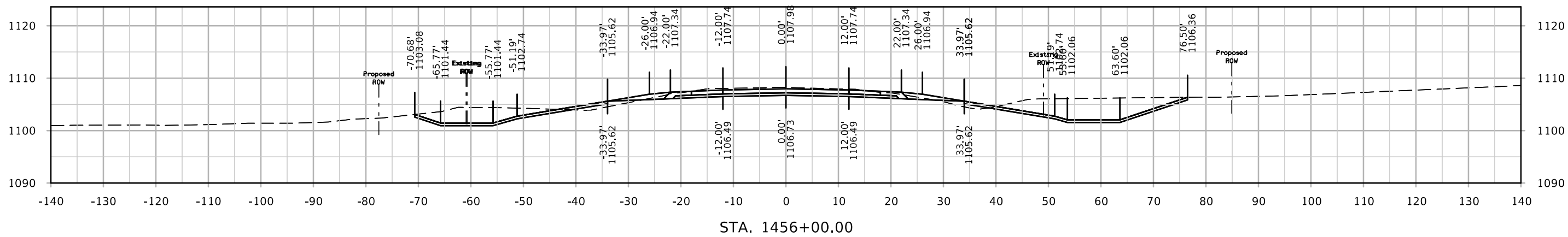
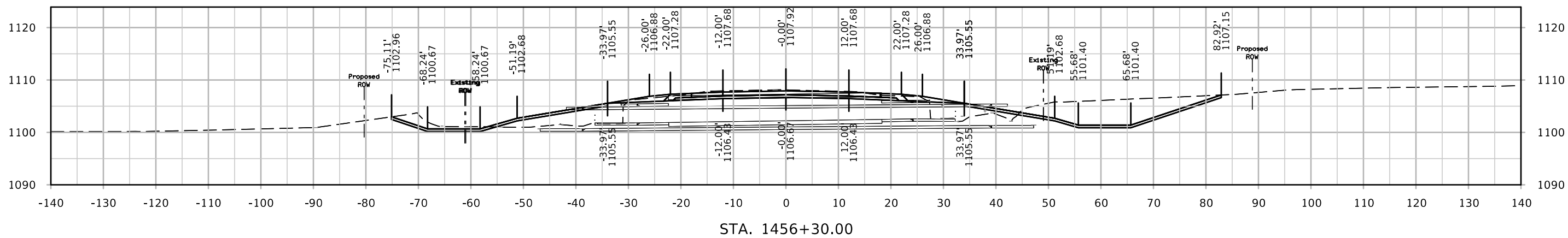
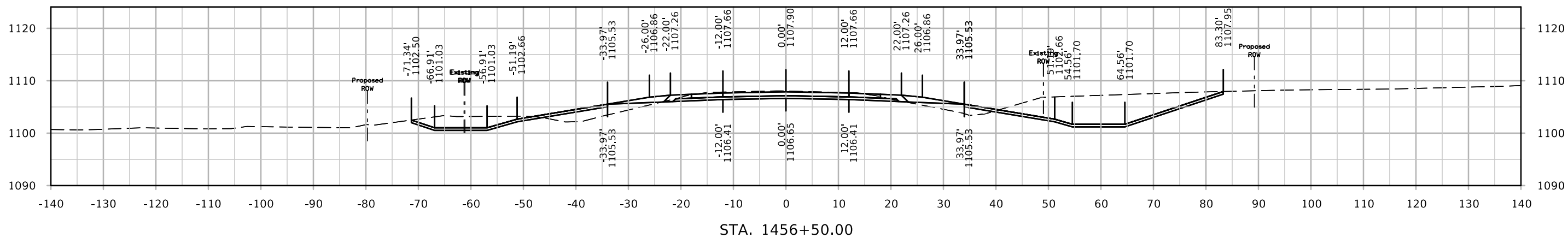


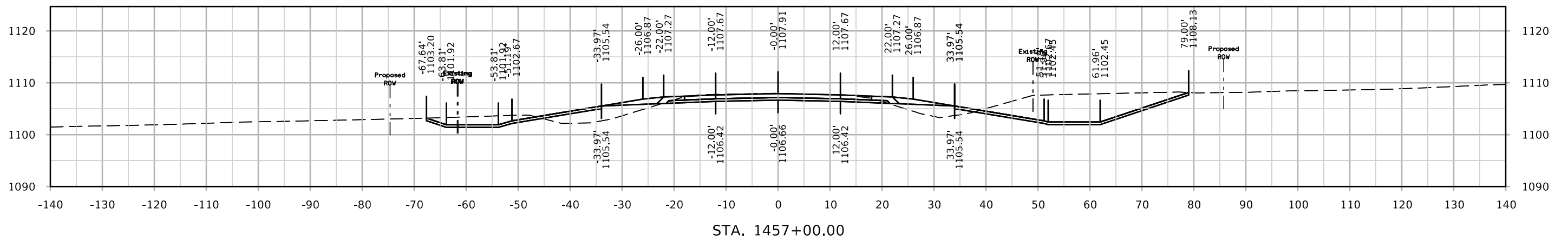
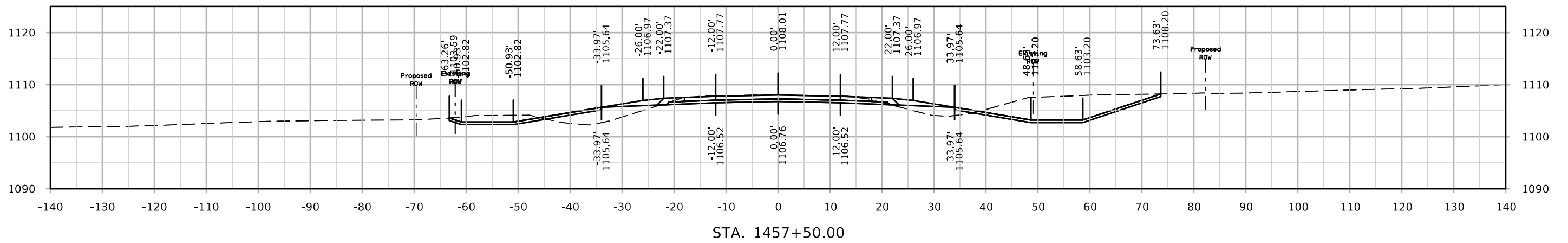
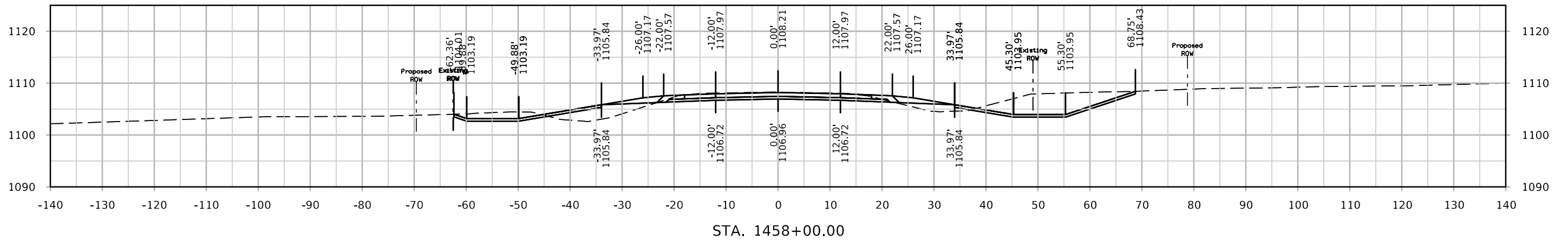
STA. 1453+50.00

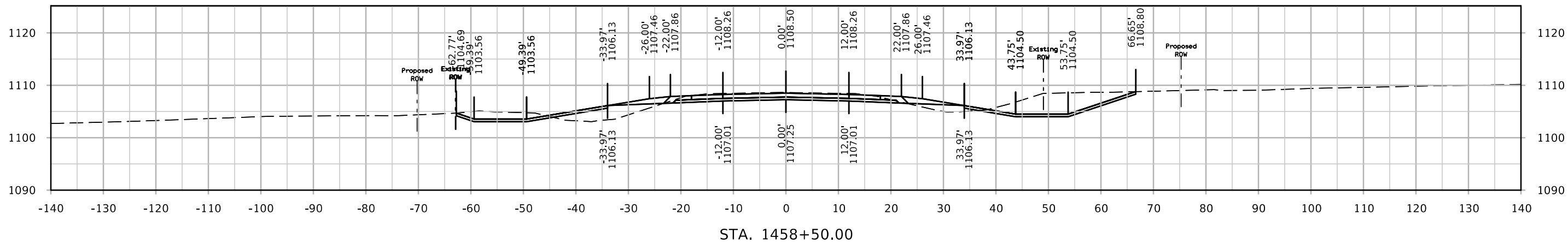
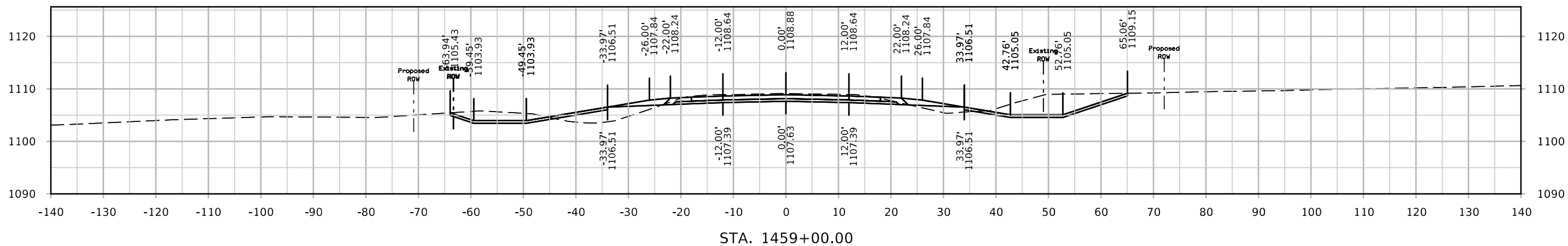
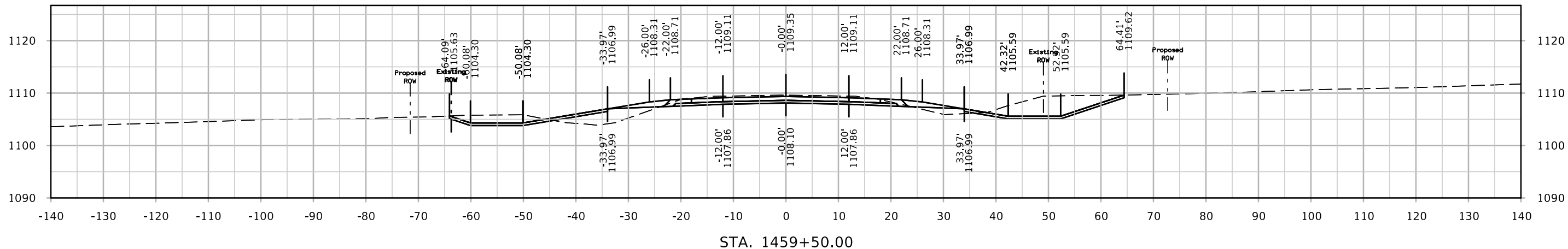


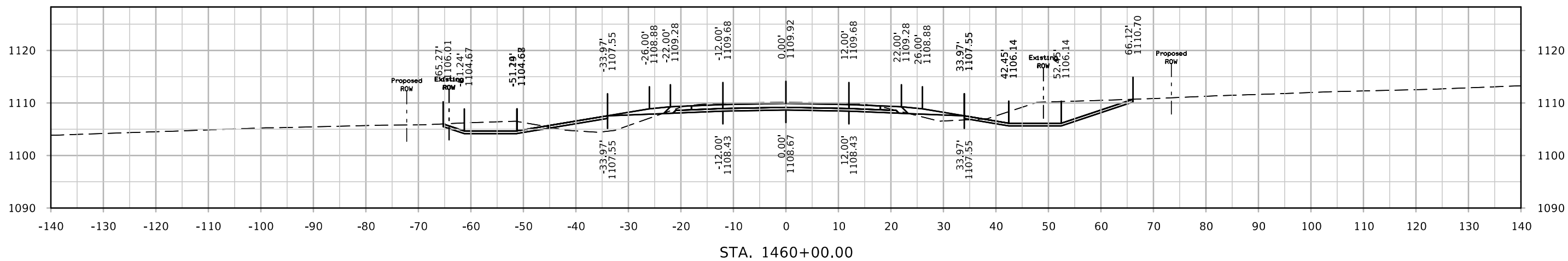
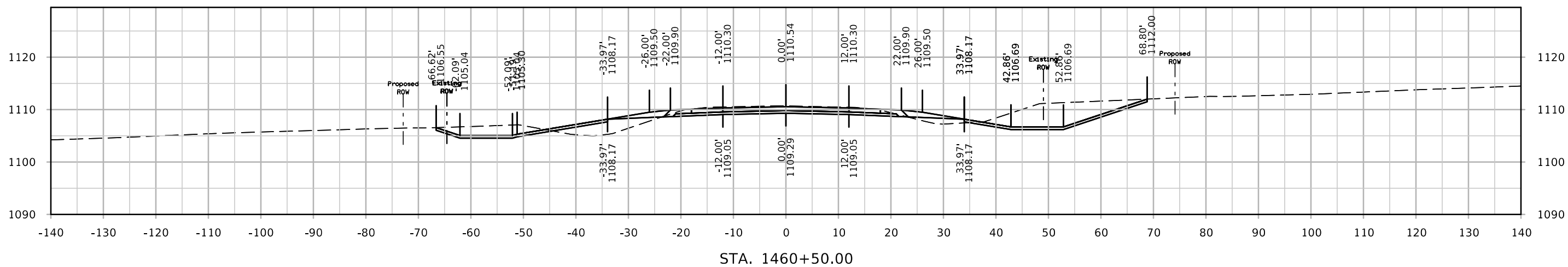
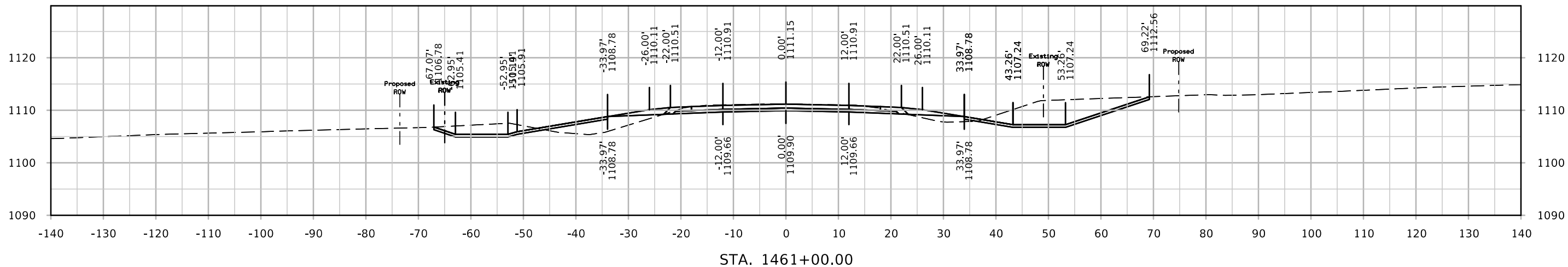
STA. 1453+00.00

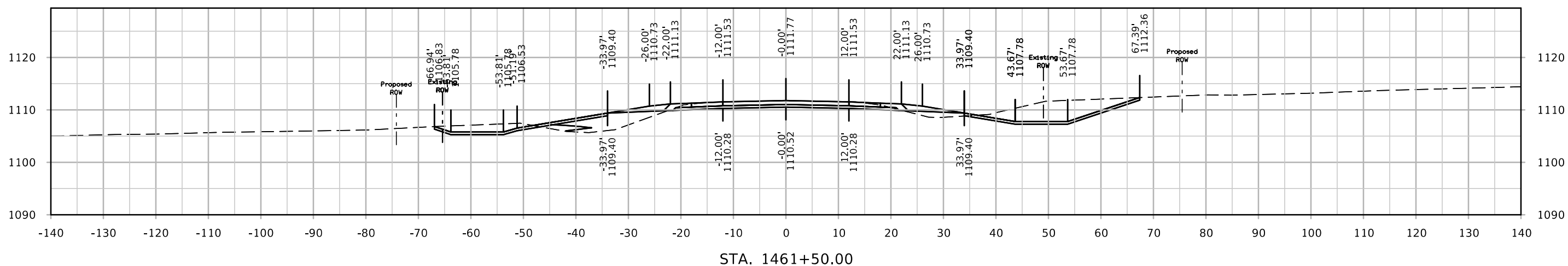
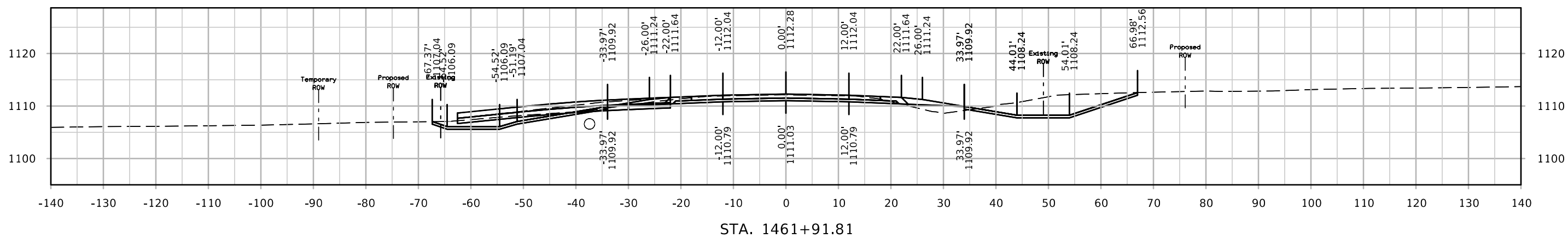
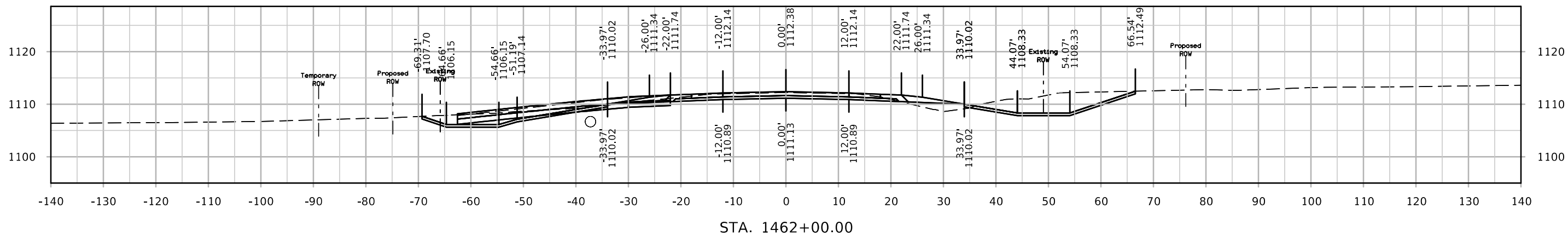


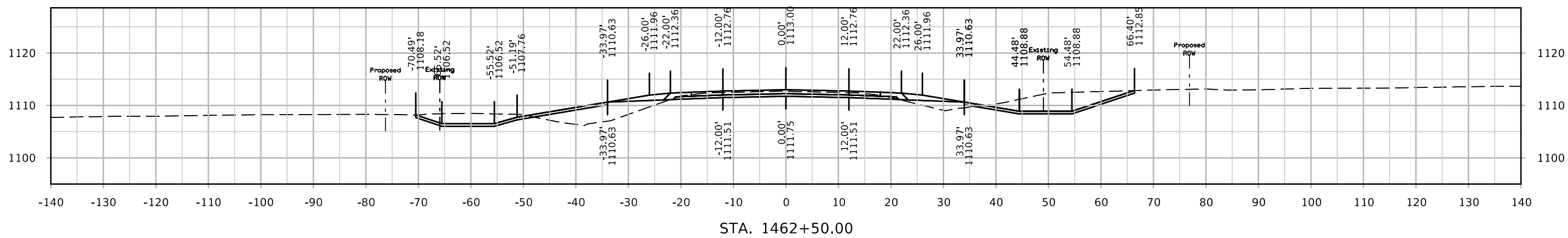
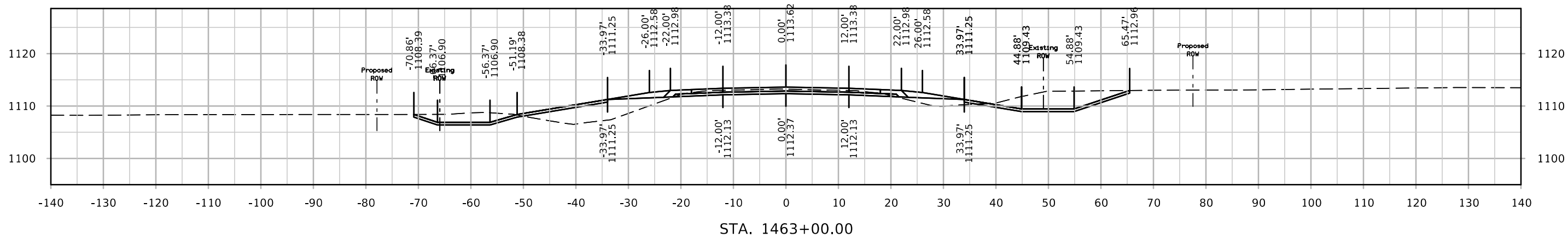
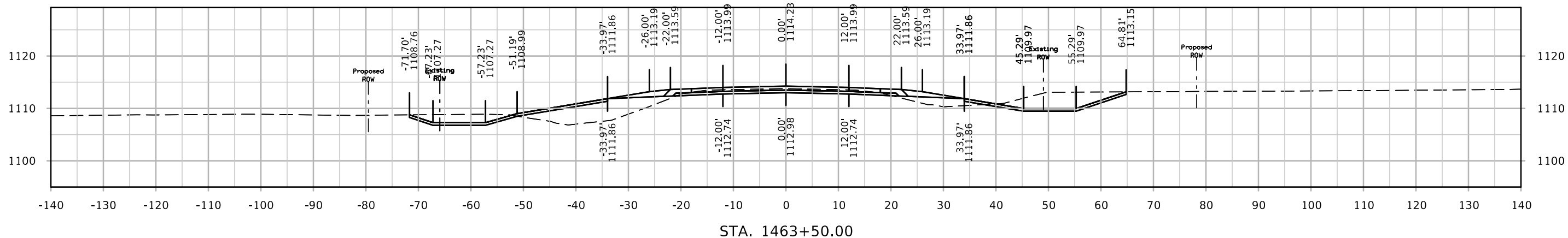


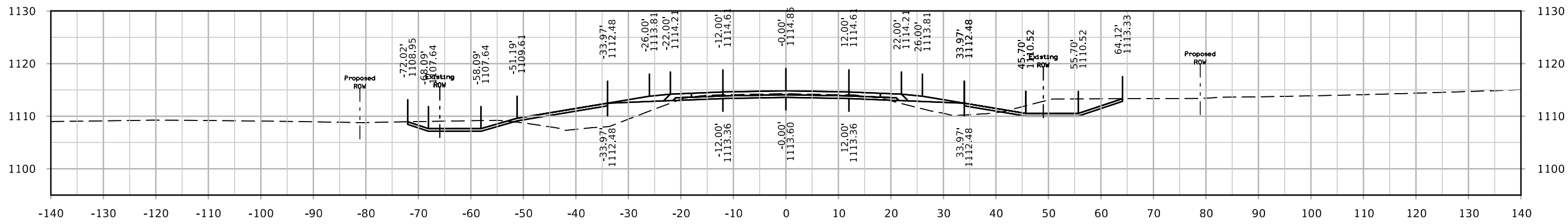
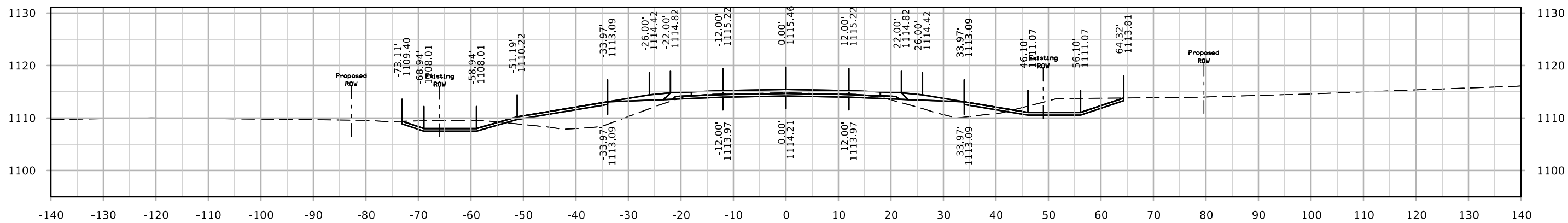
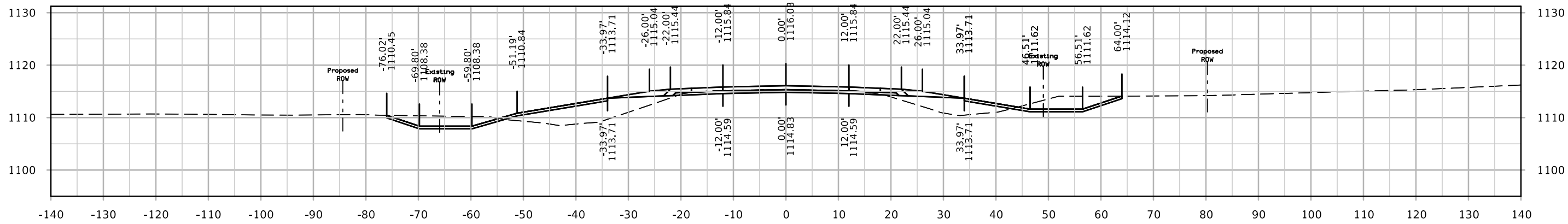


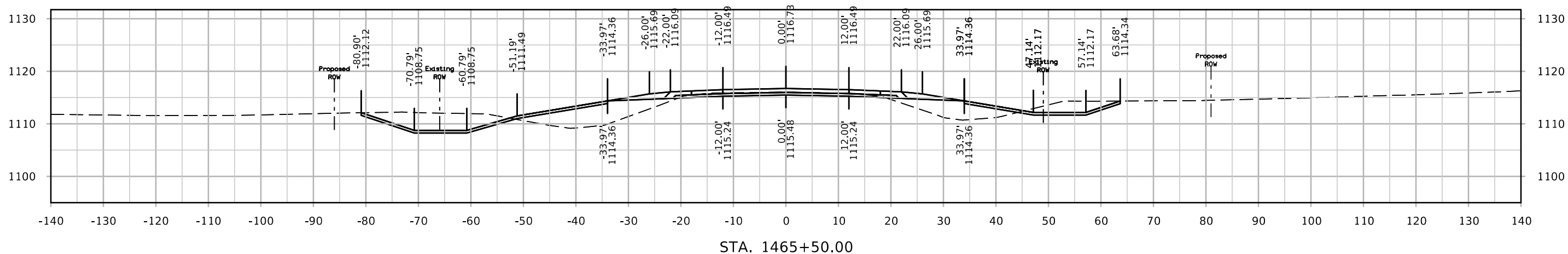
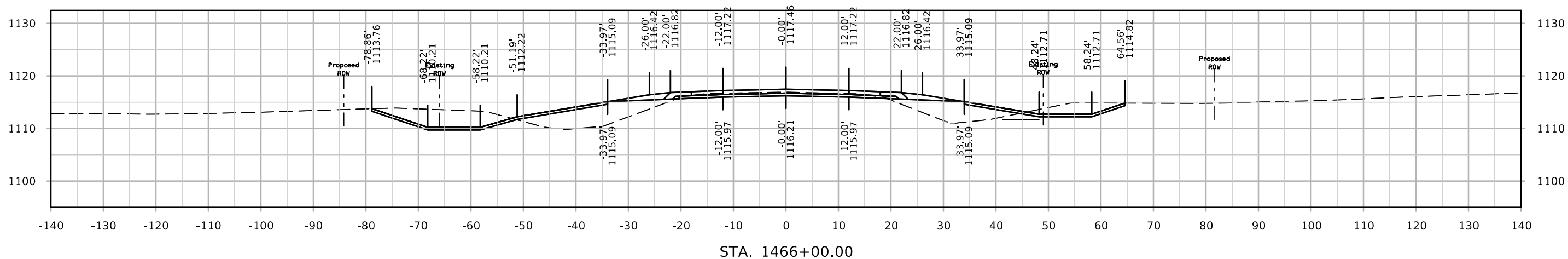
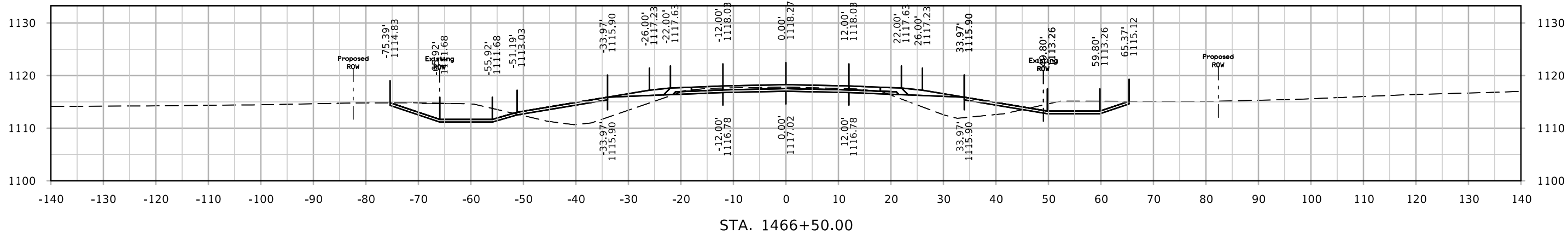


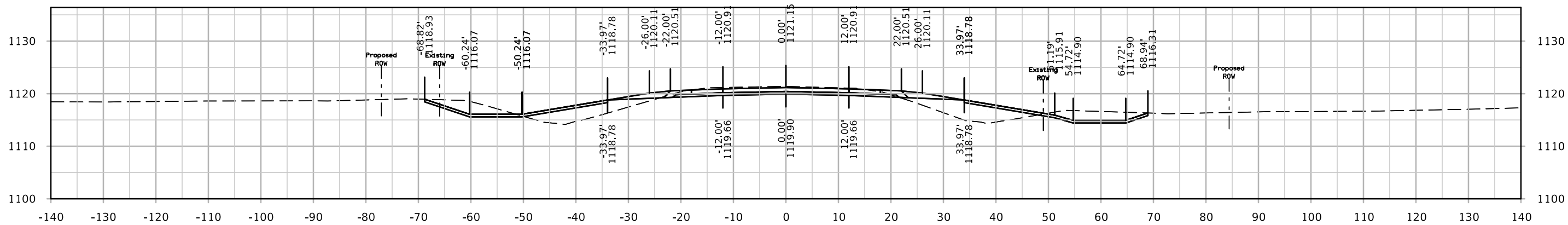




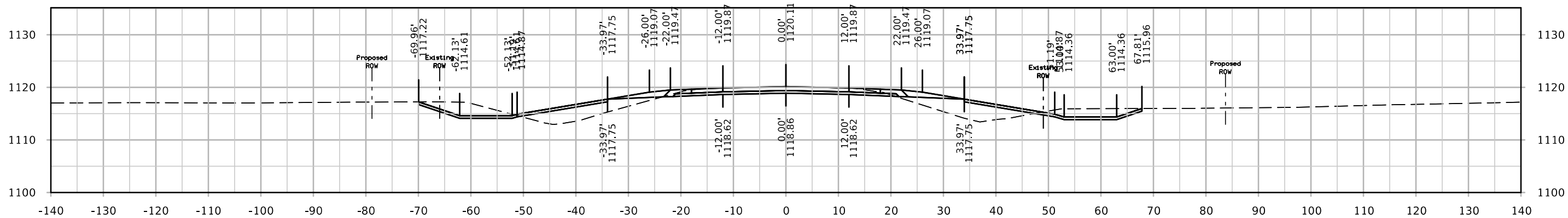




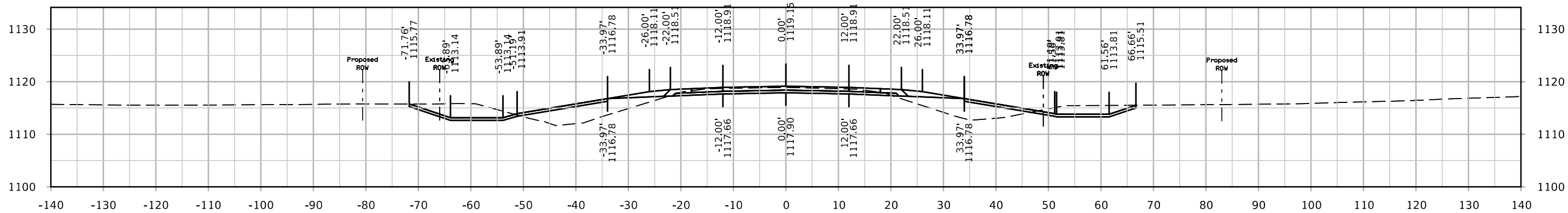




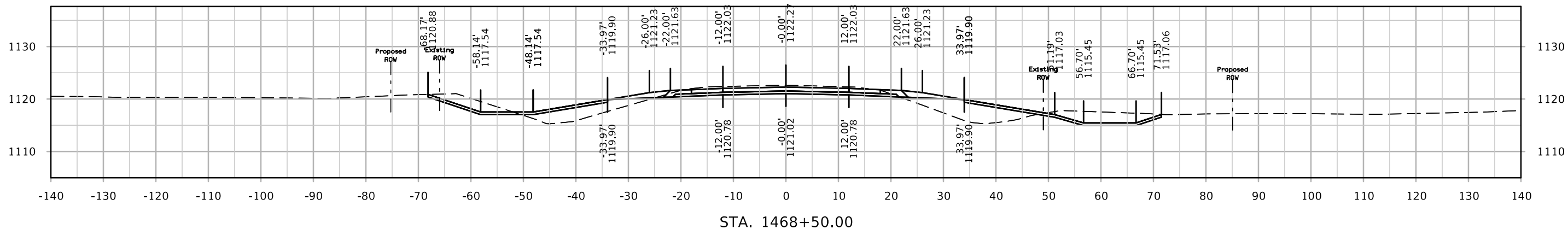
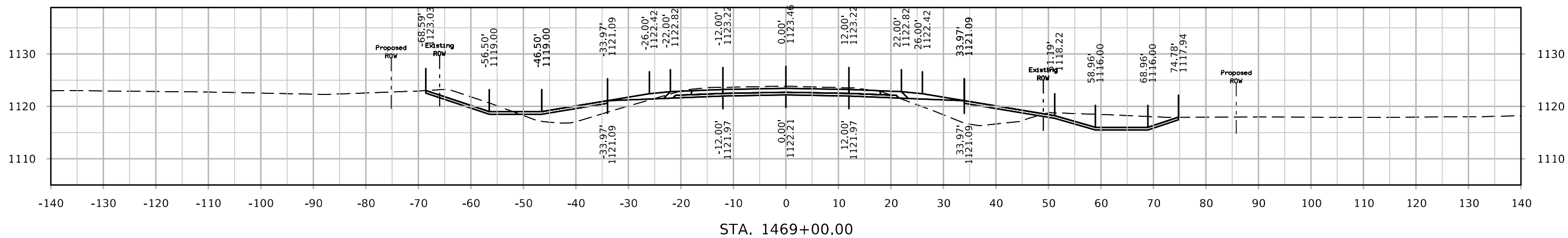
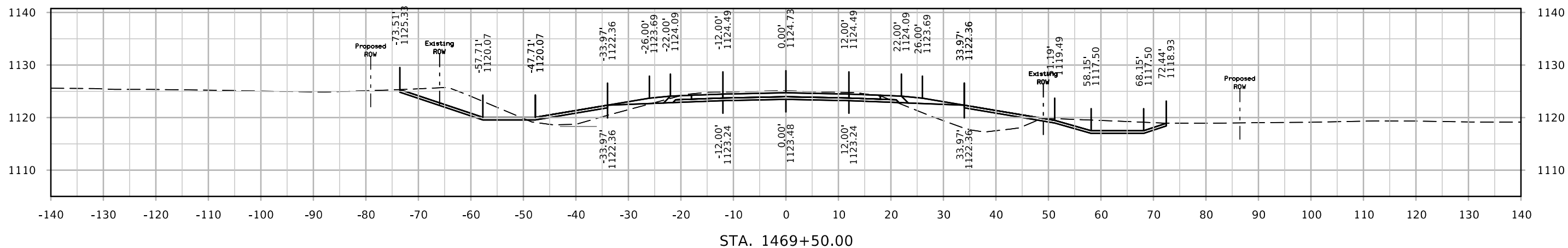
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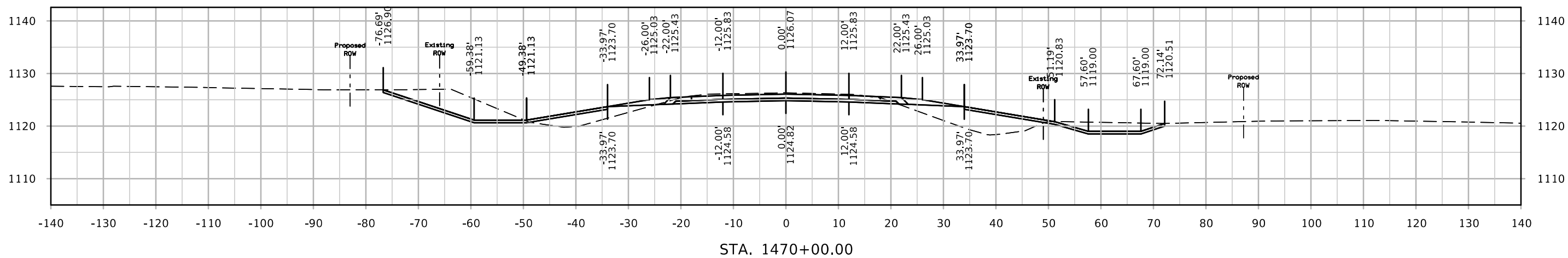
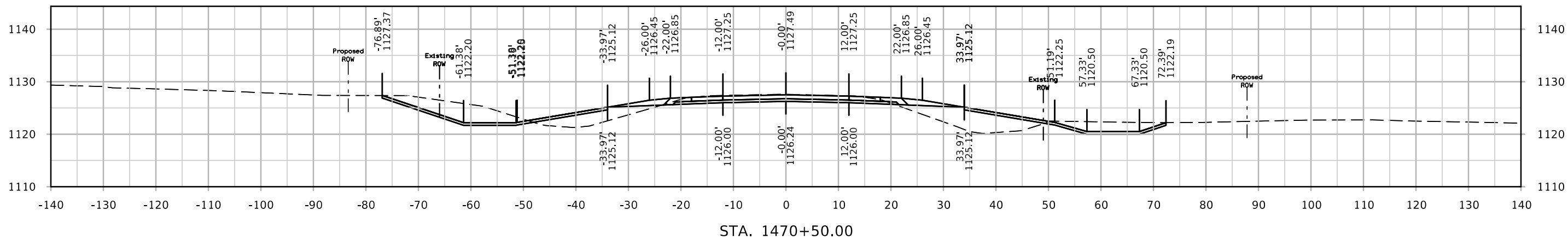
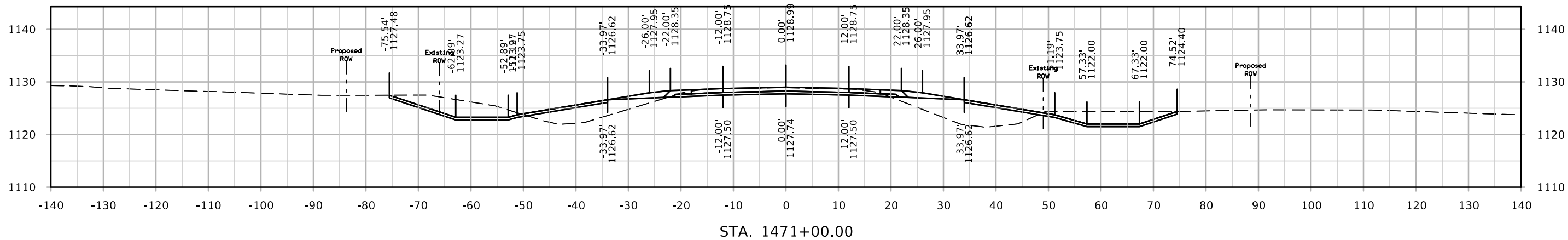


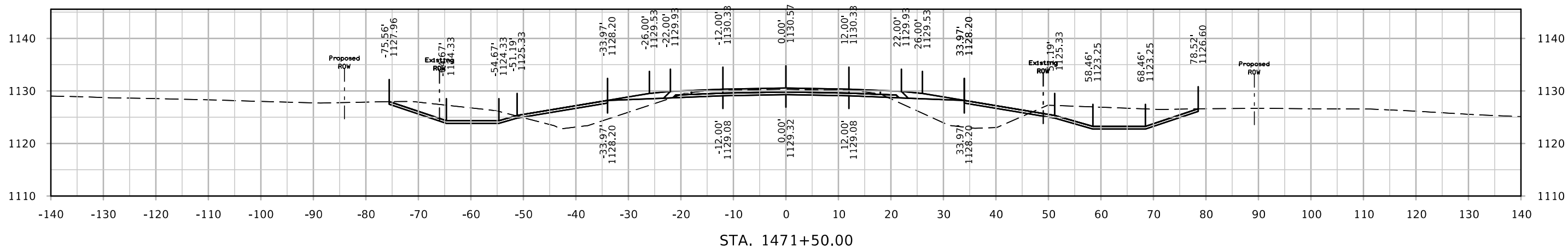
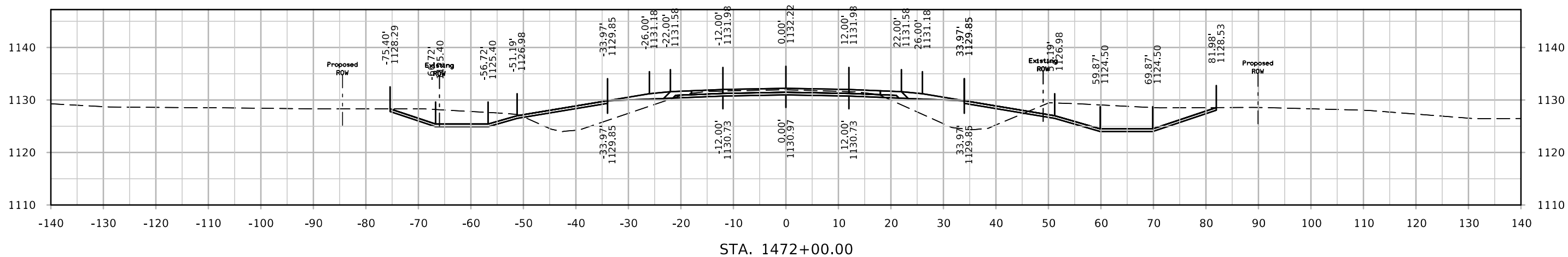
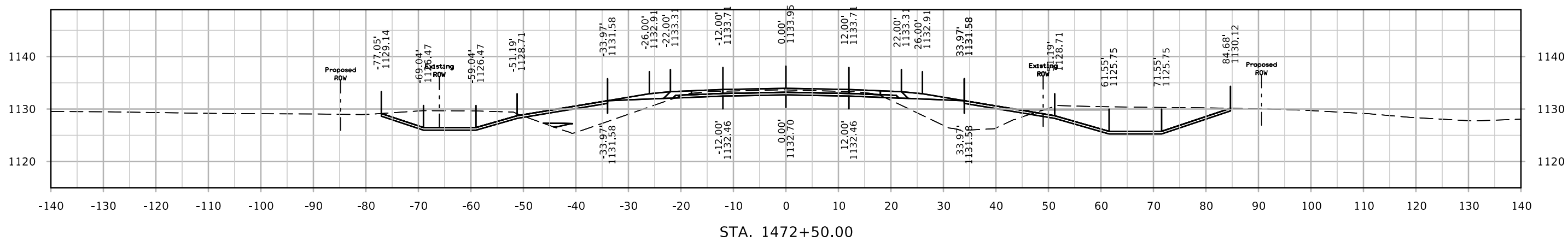
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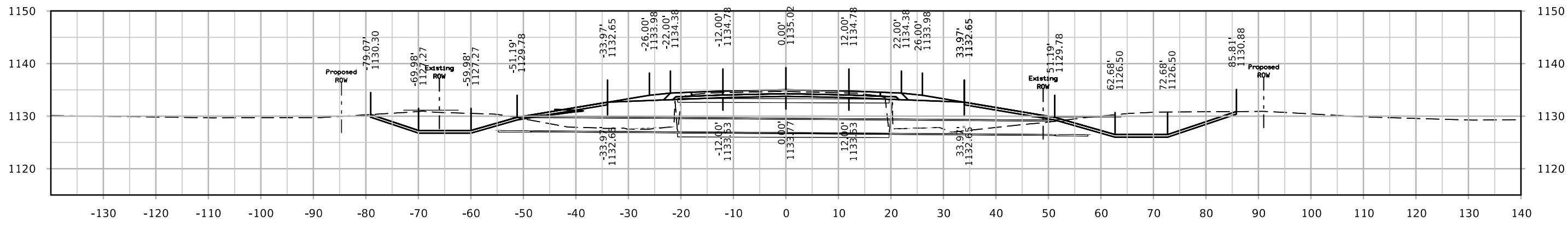
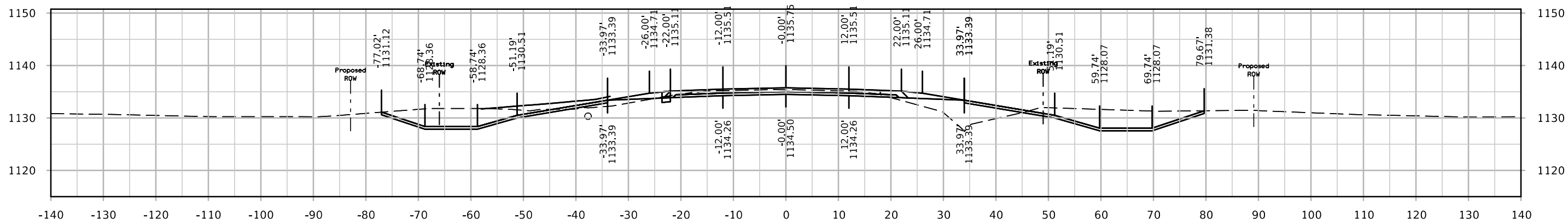
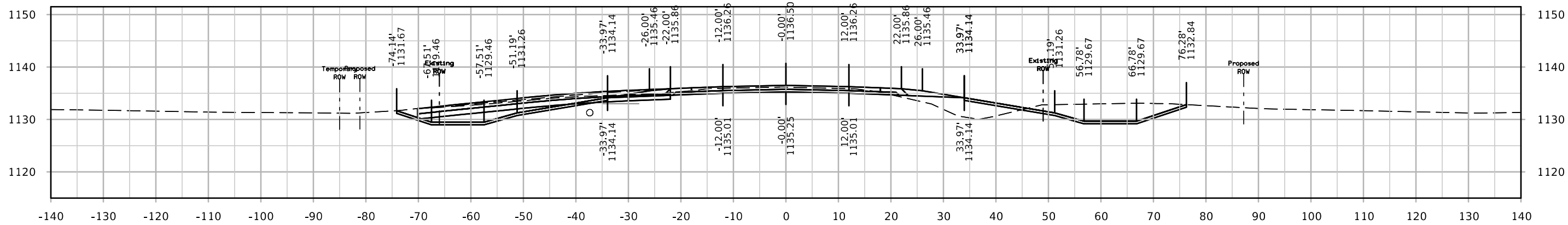


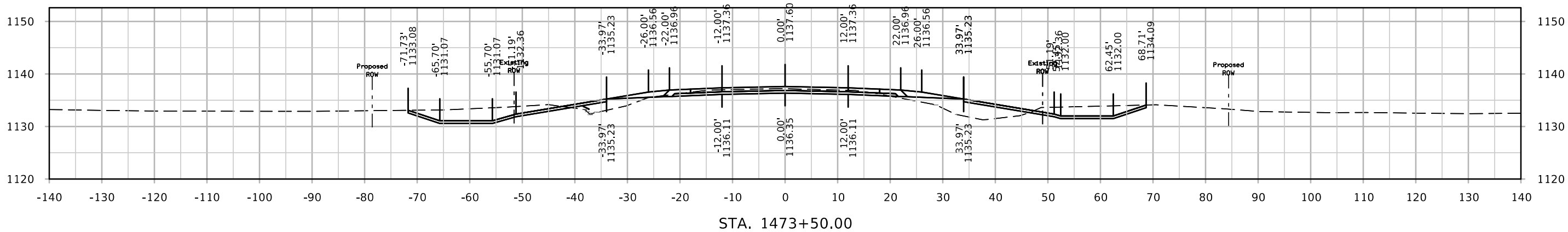
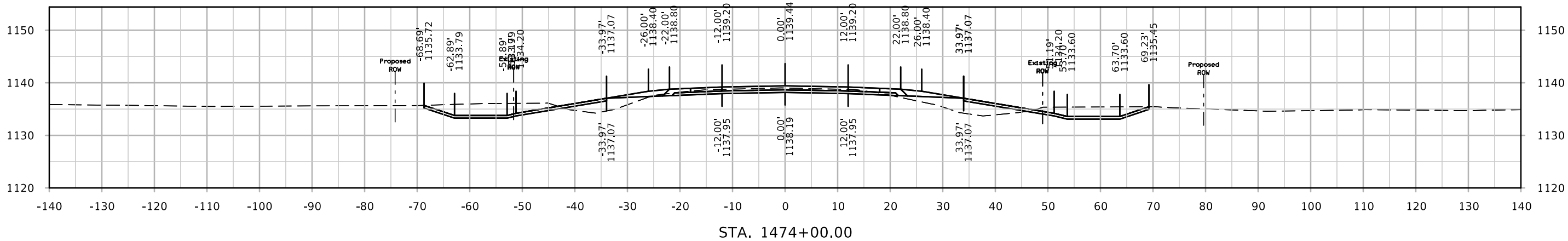
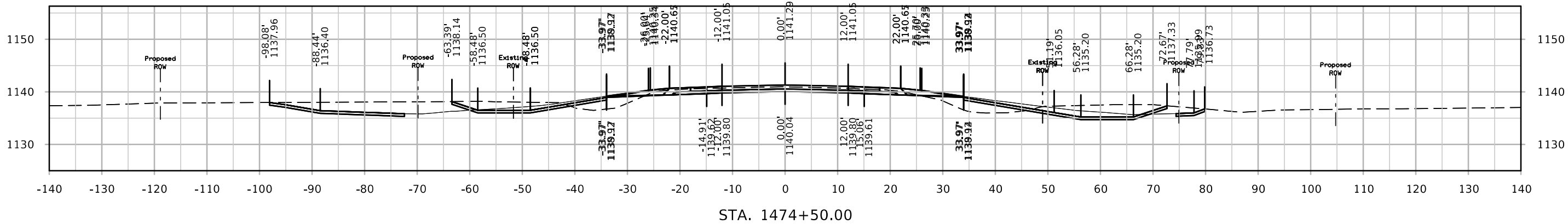
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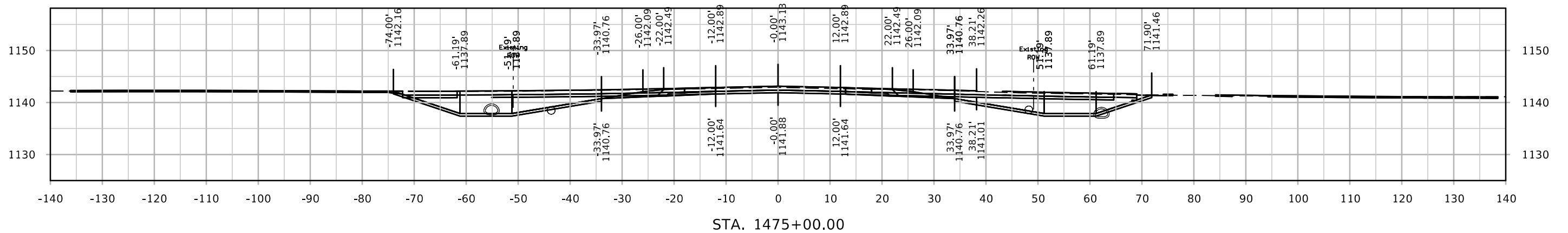
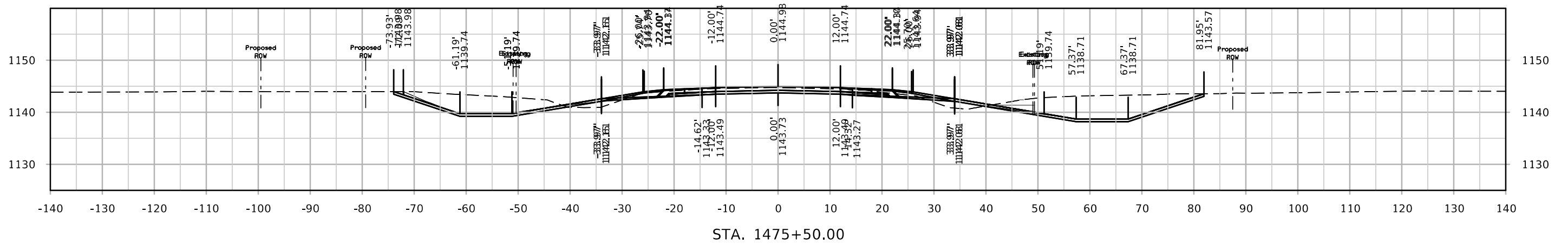
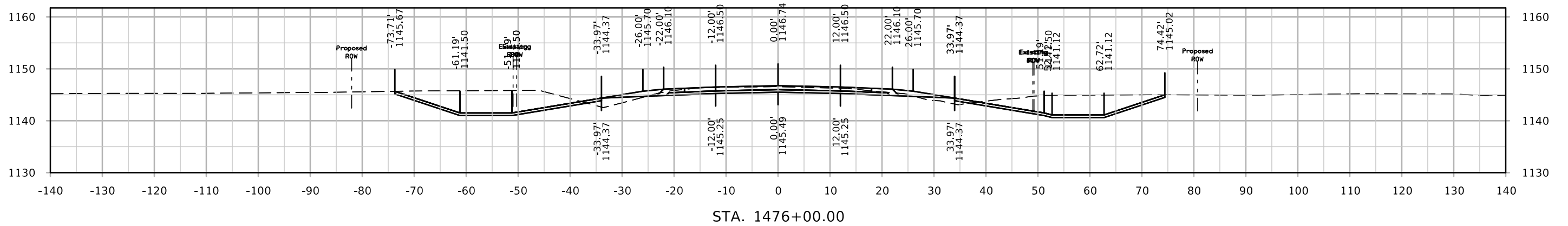


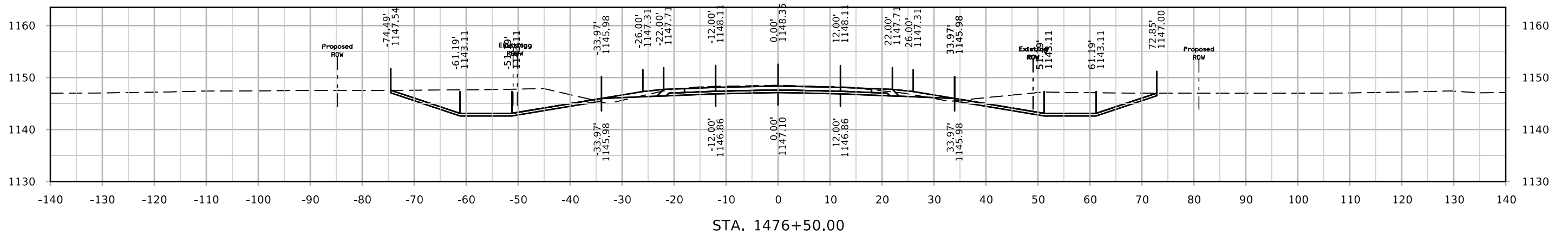
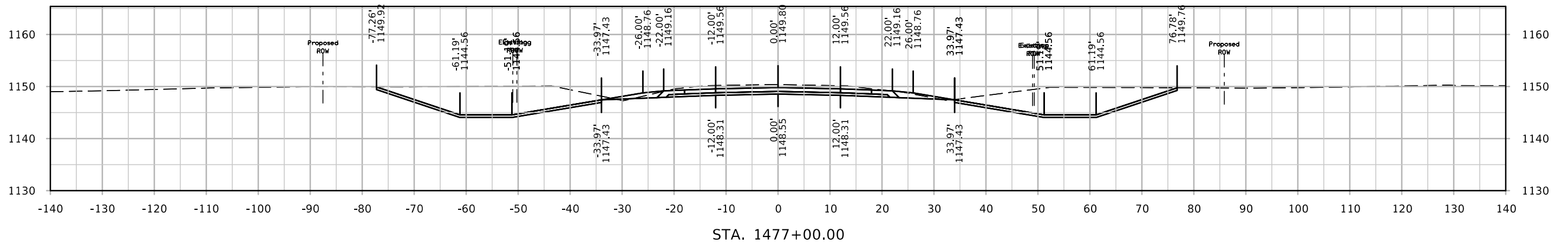
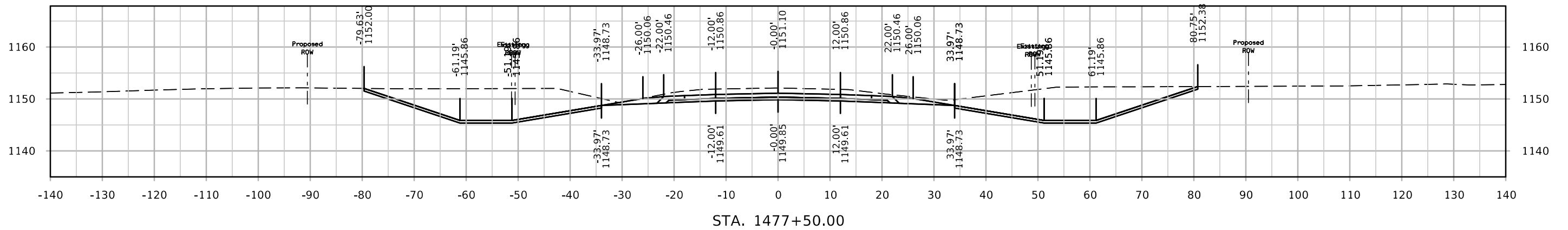


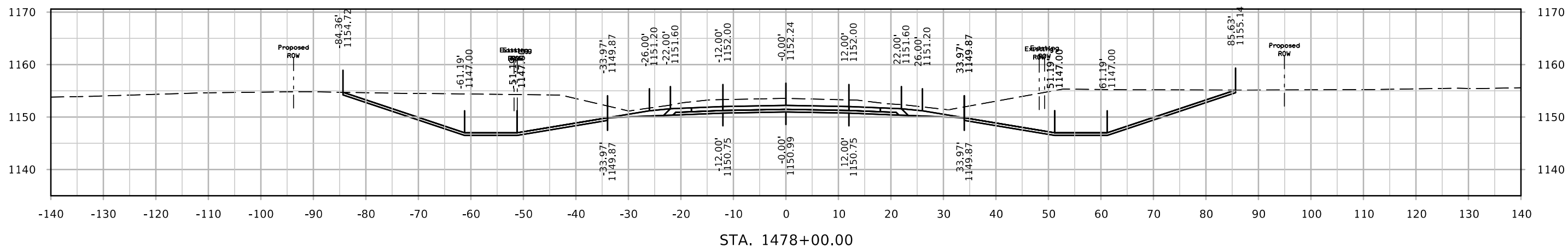
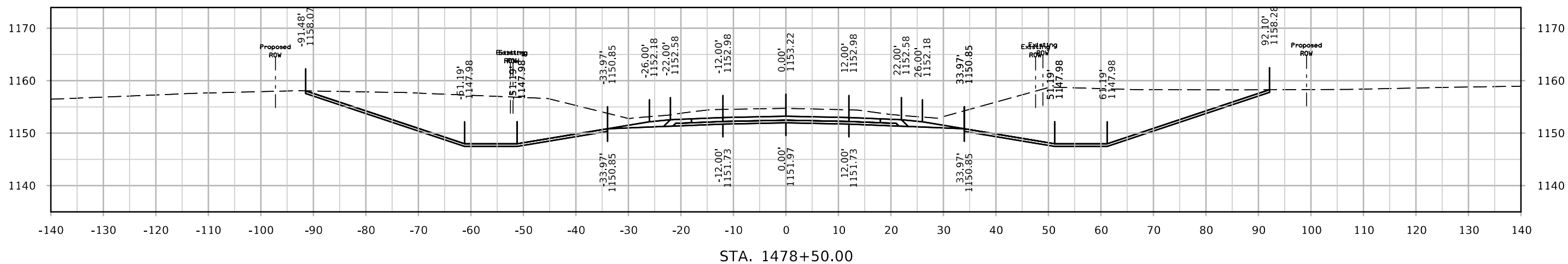
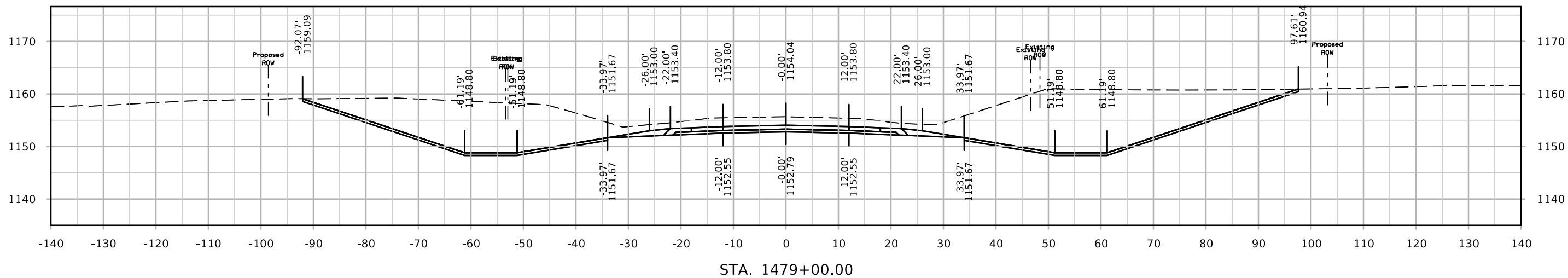




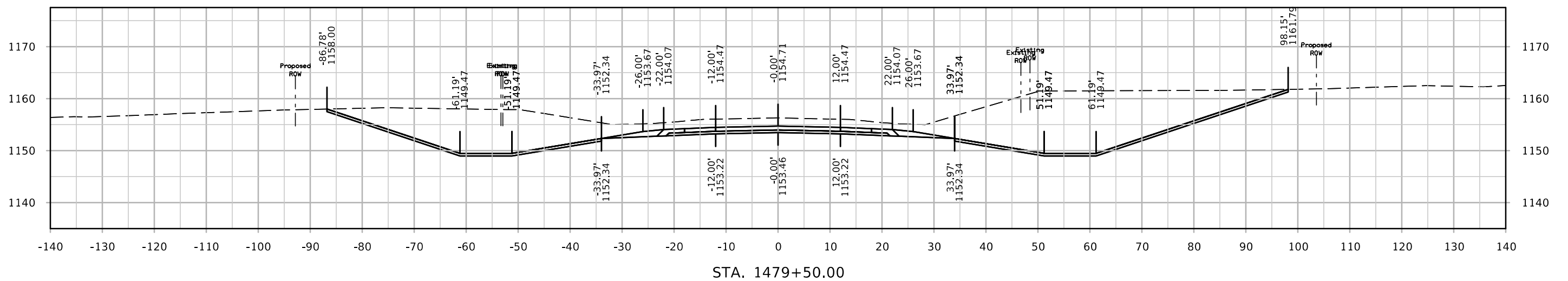
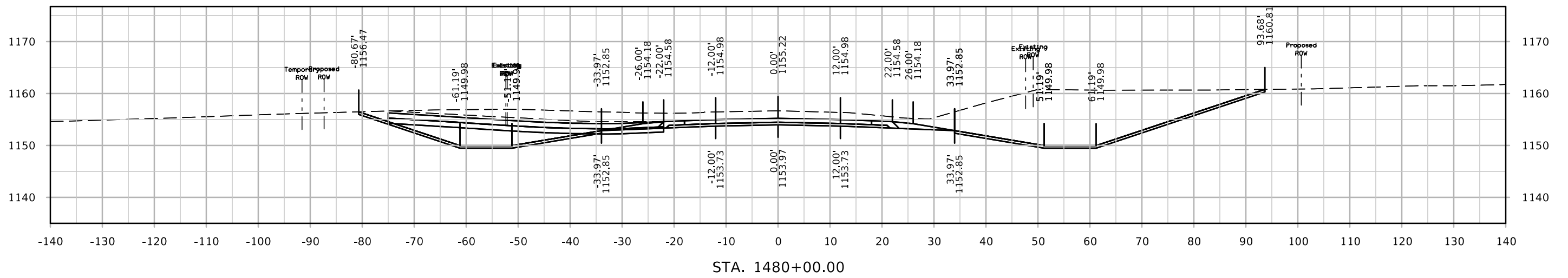
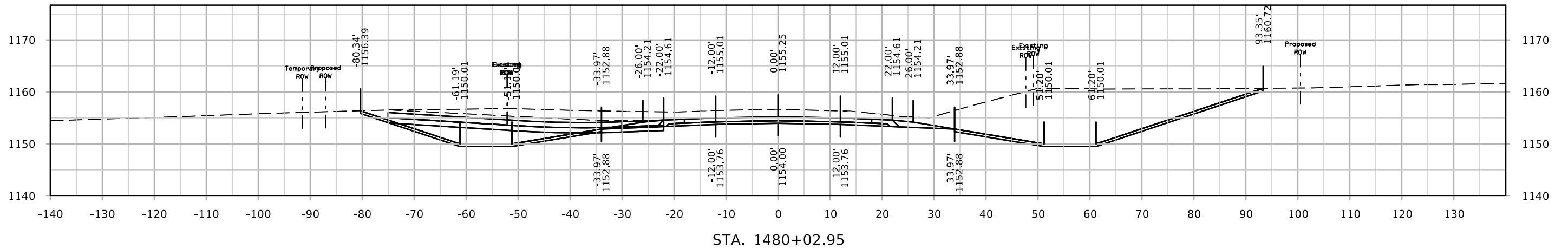


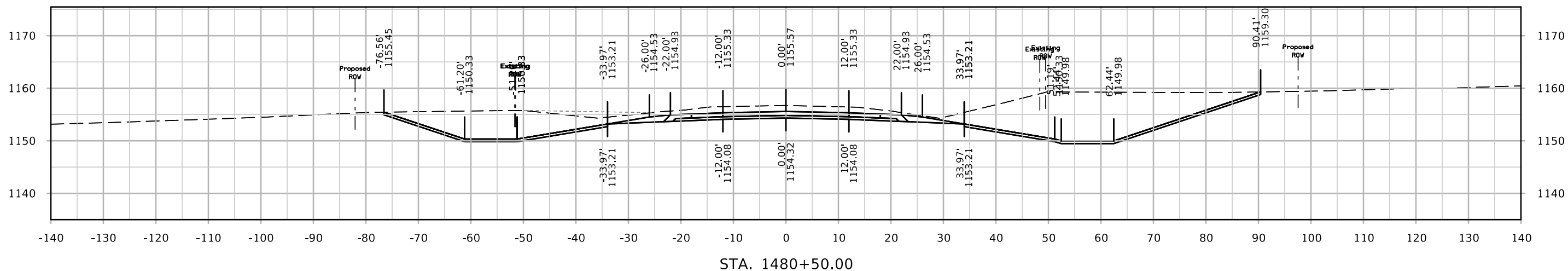
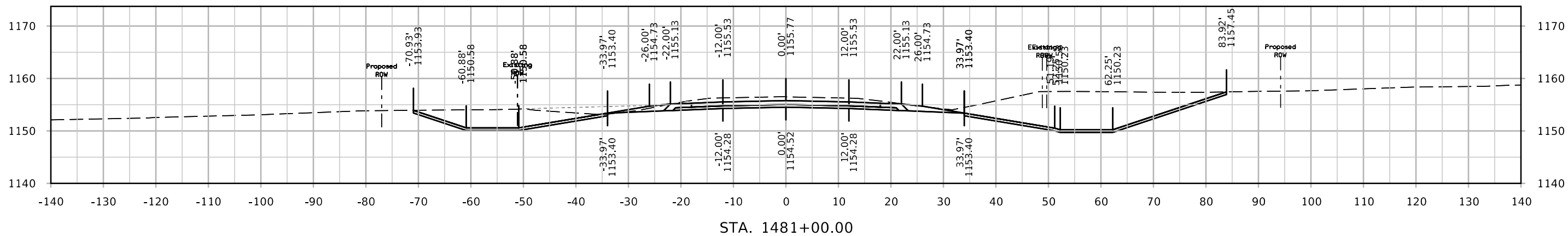
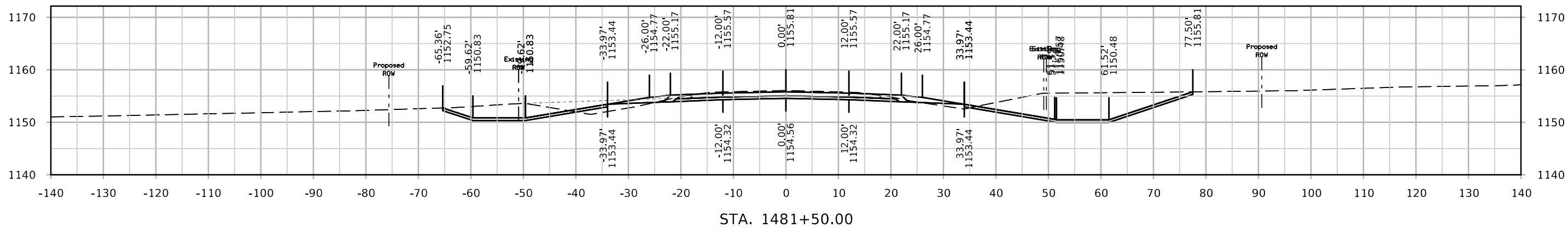


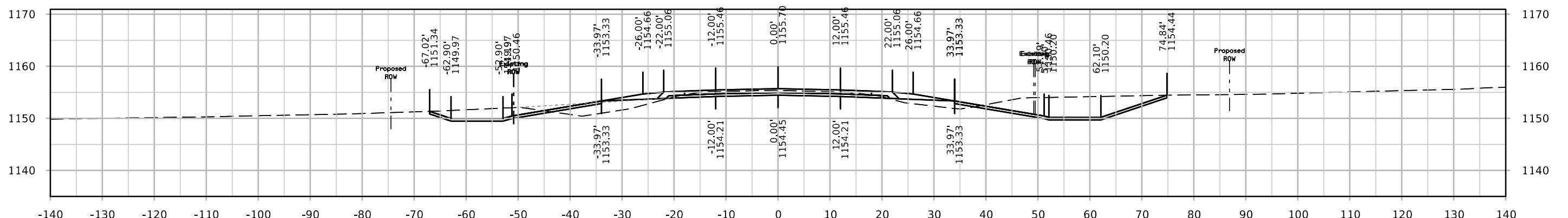
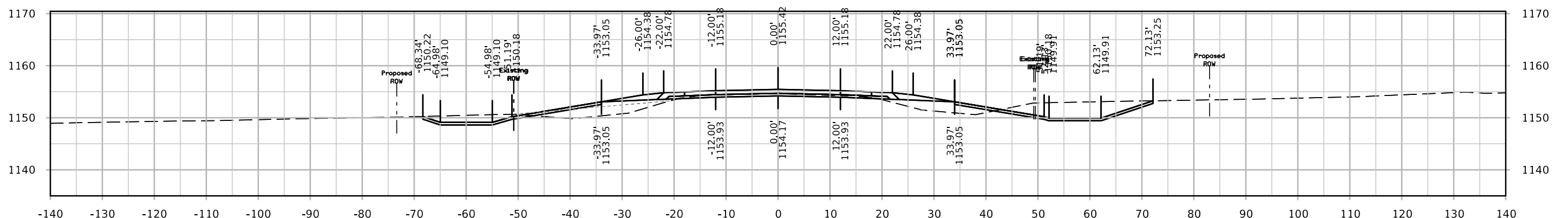
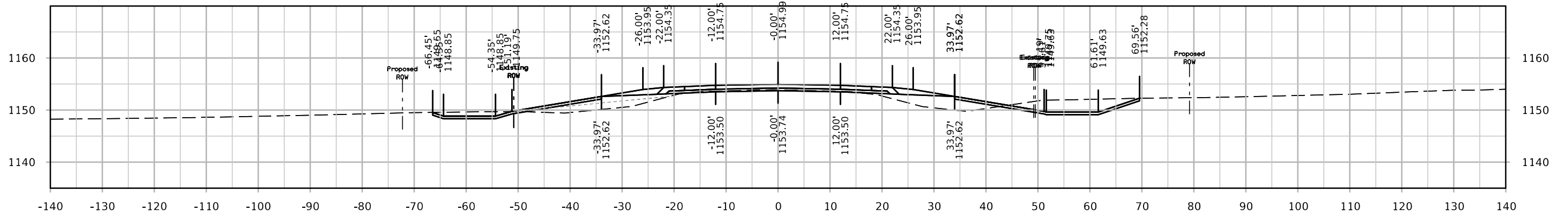


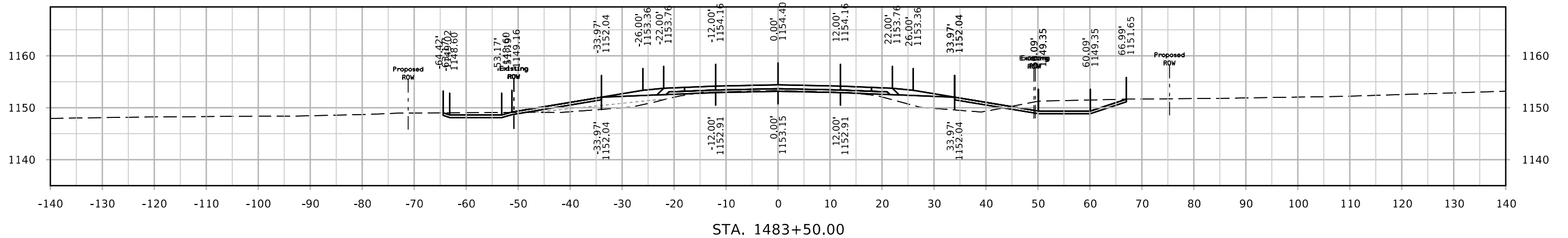
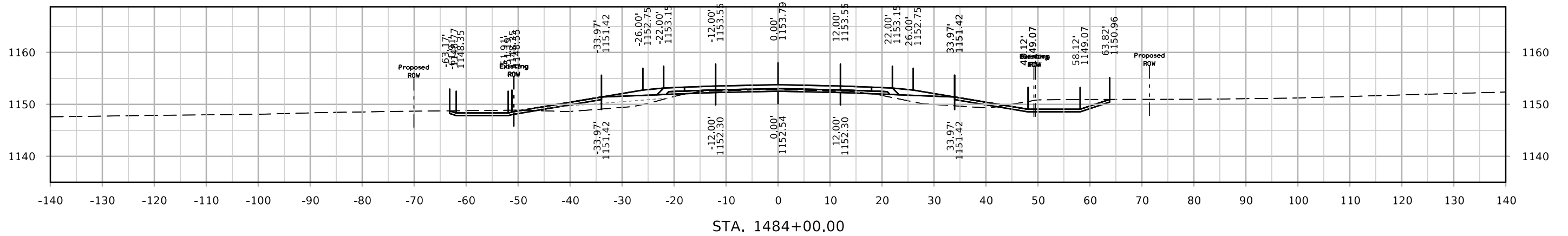
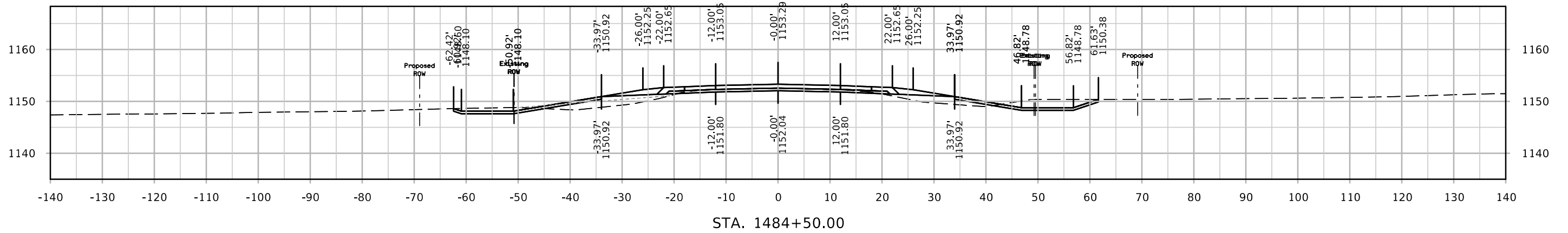


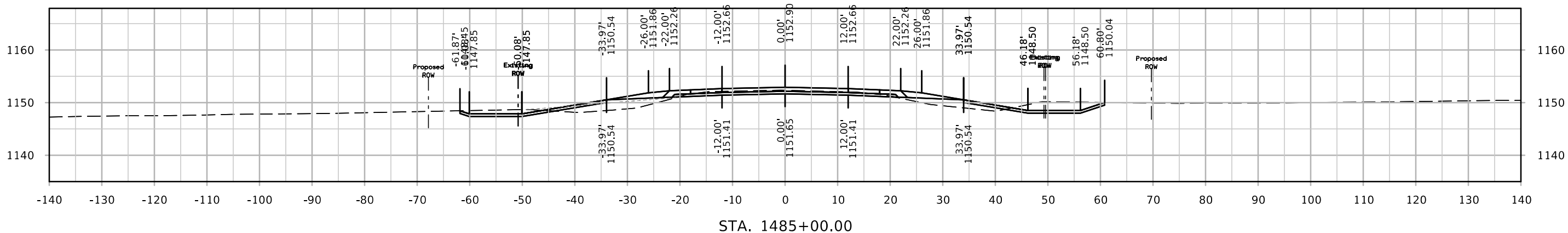
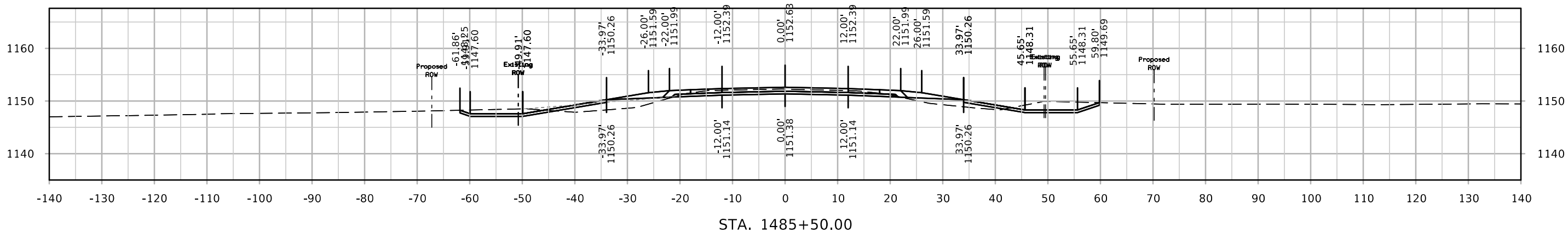
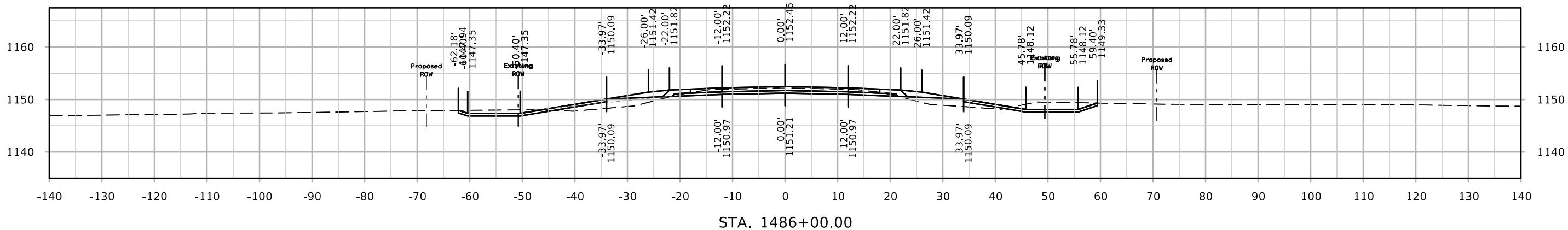
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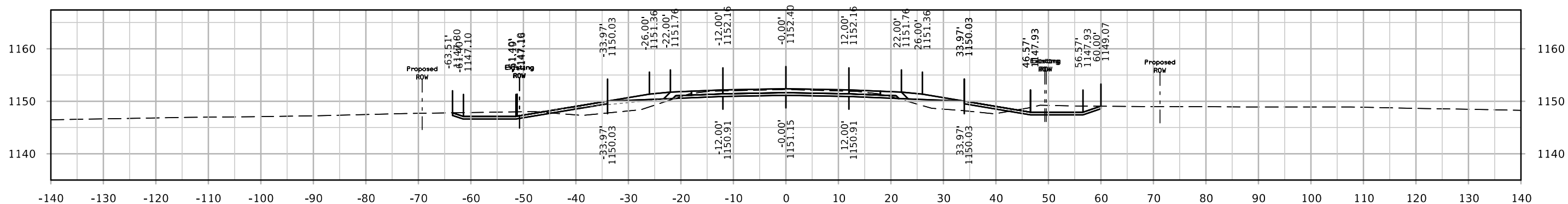
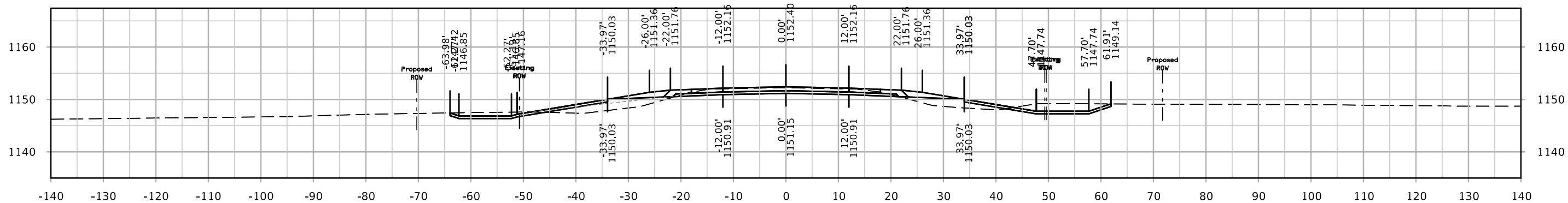
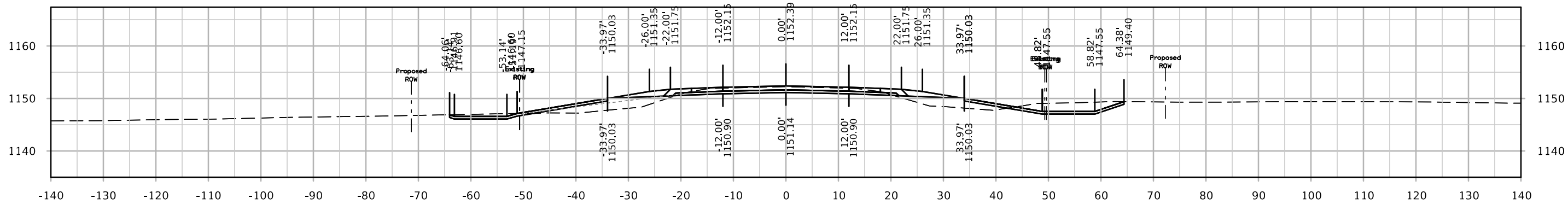


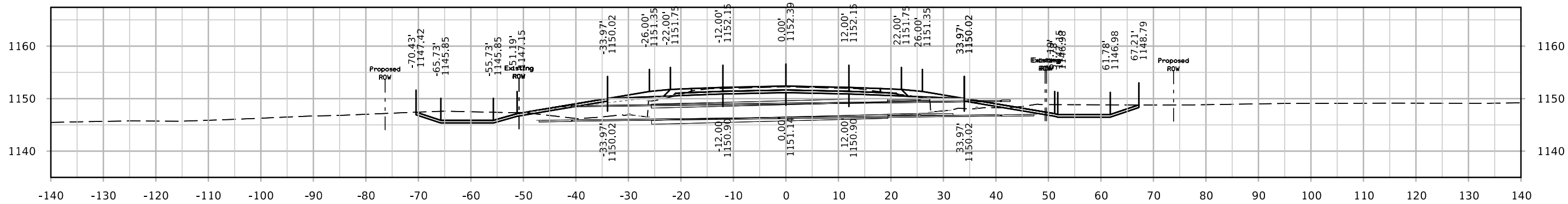




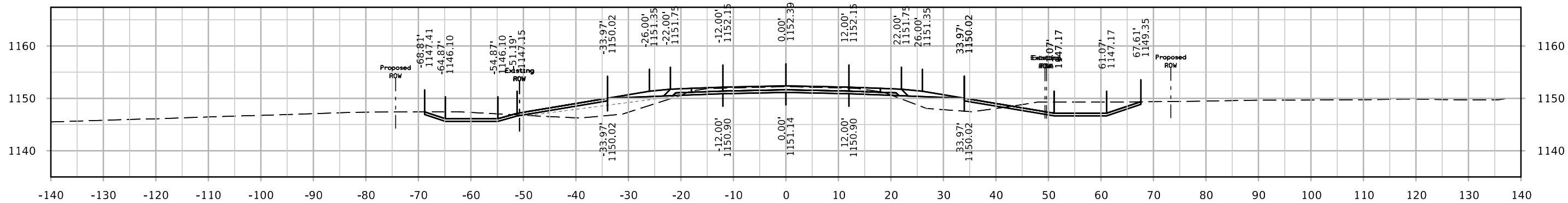




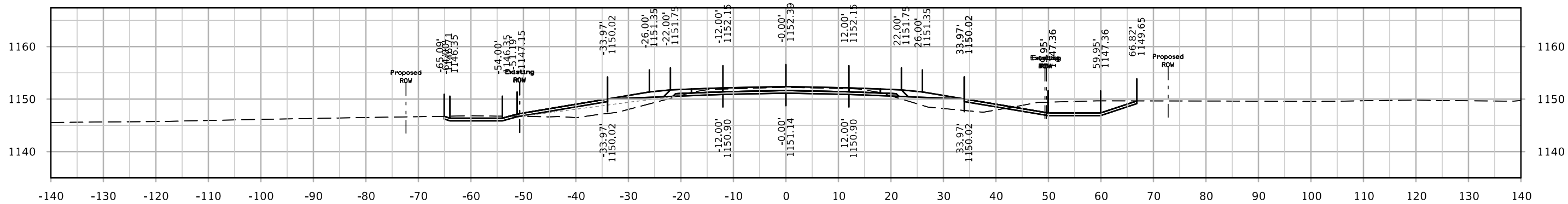




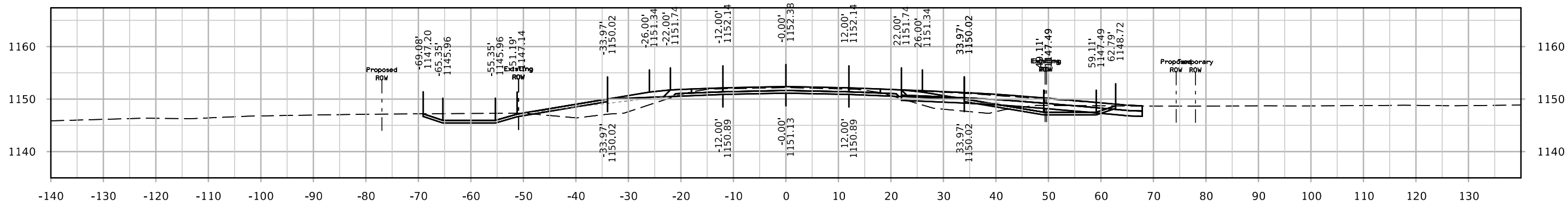
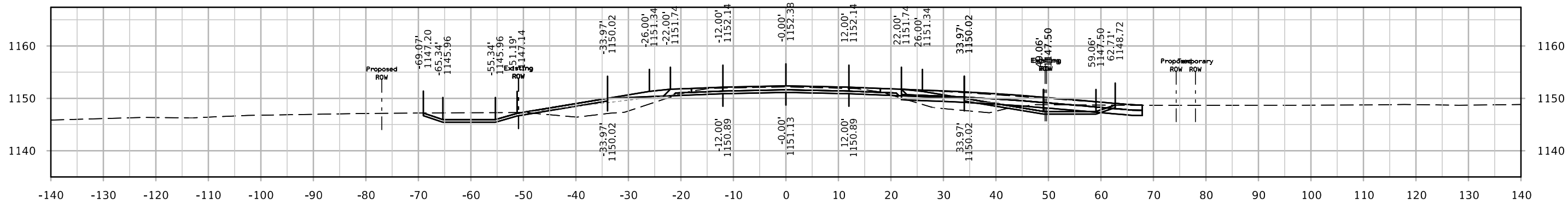
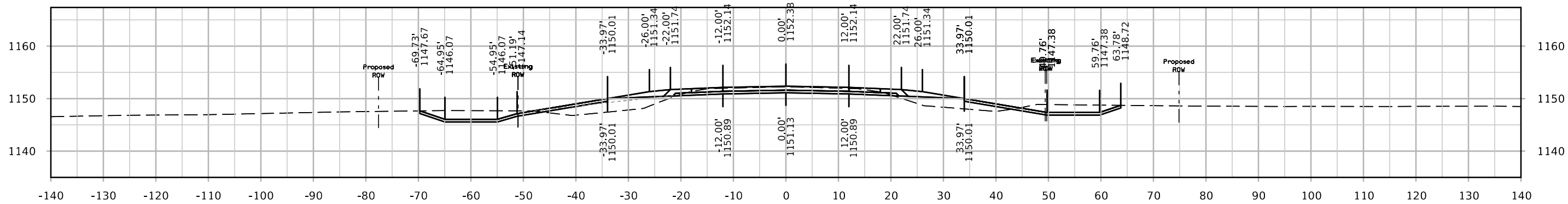
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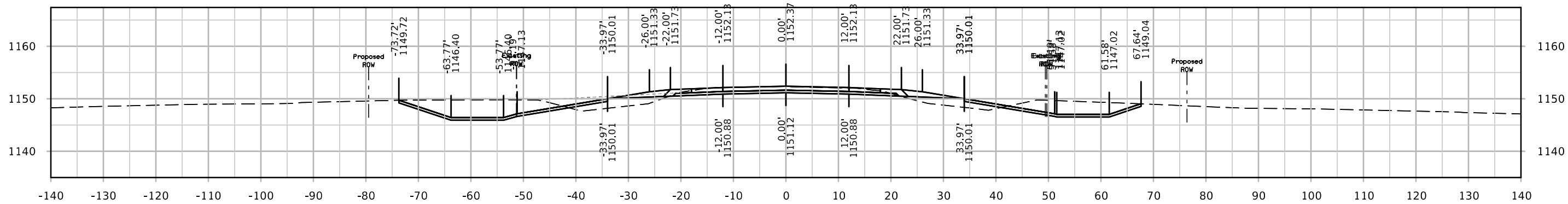


STA. 1488+50.00

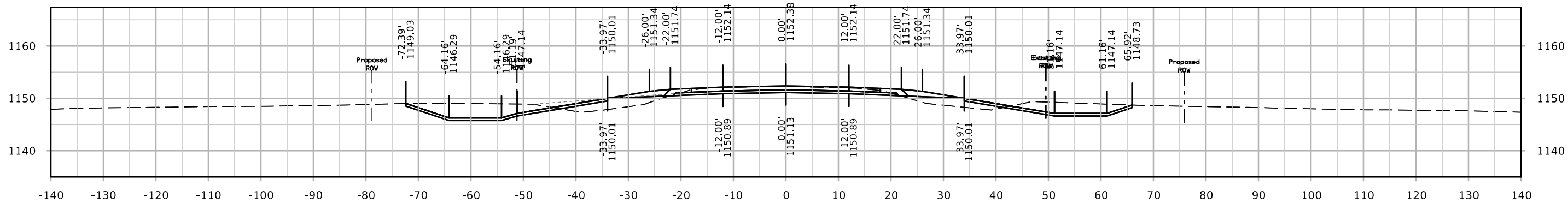


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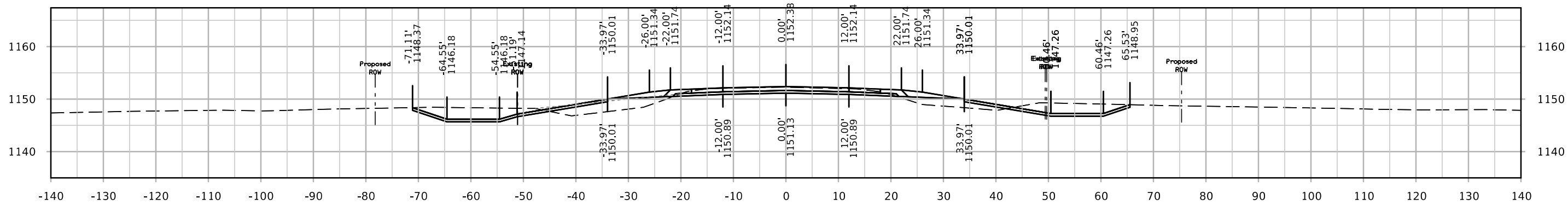




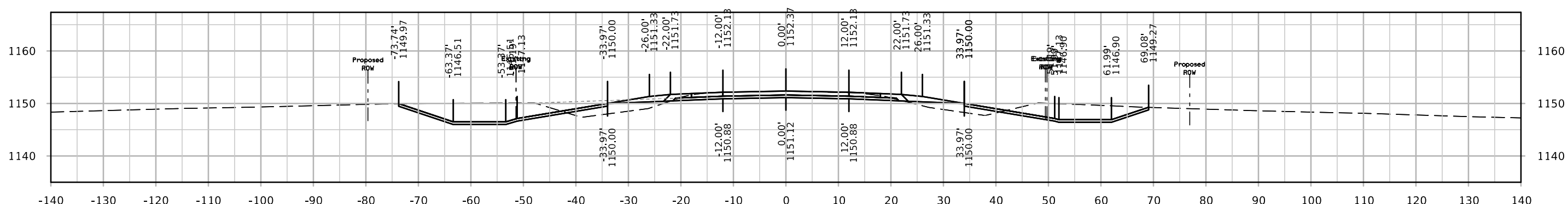
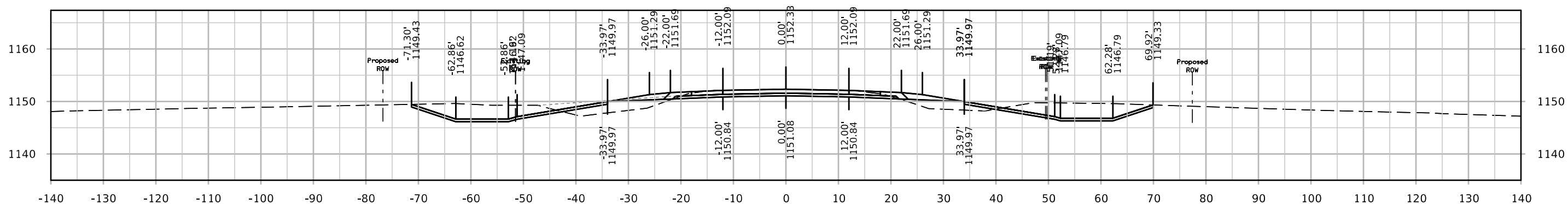
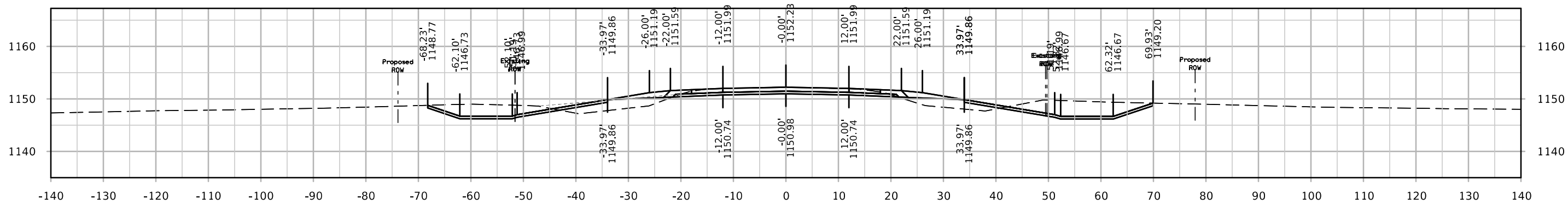
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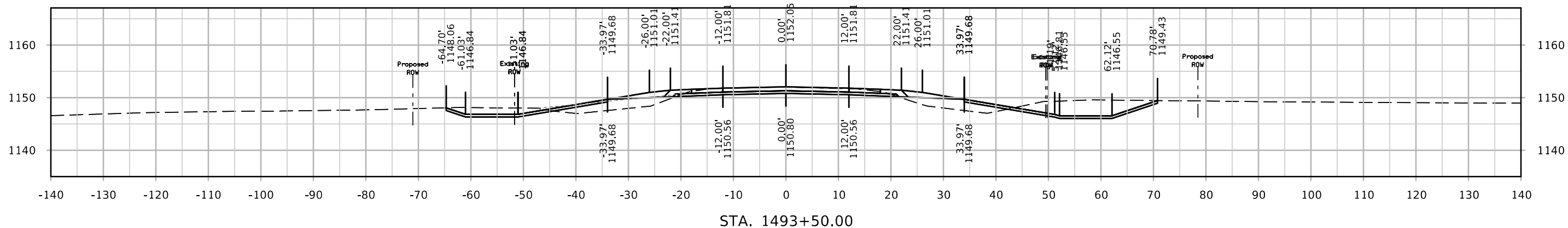
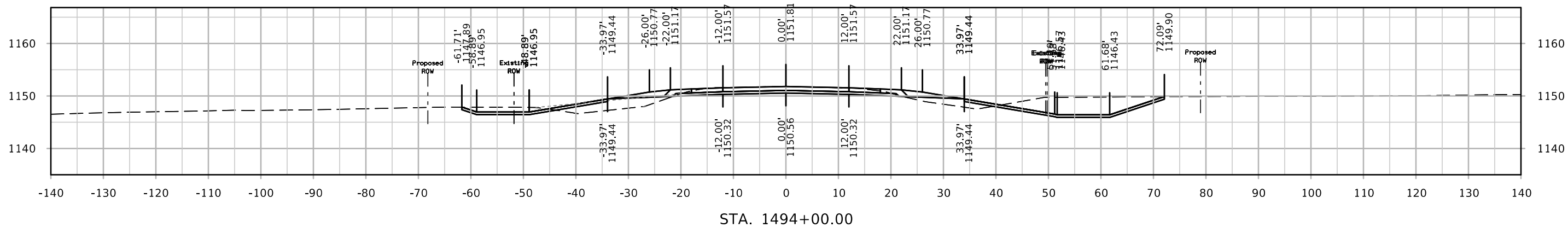
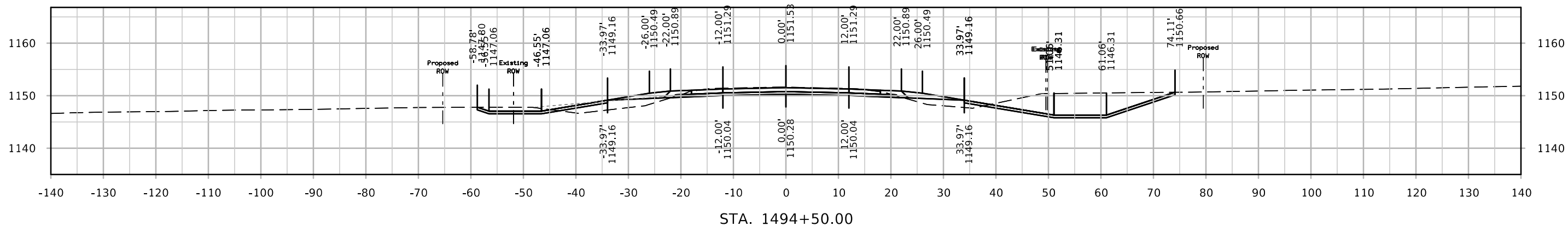


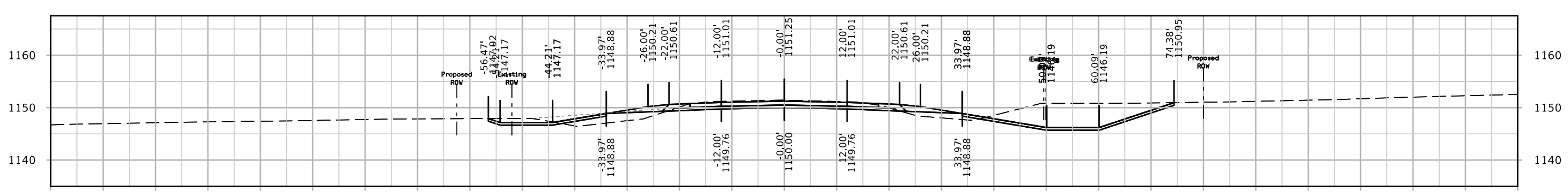
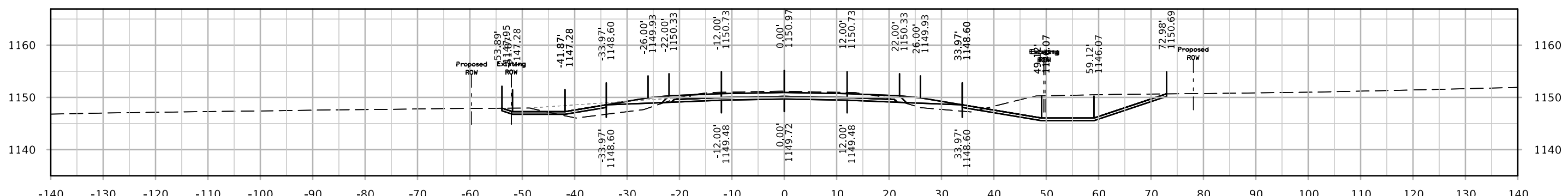
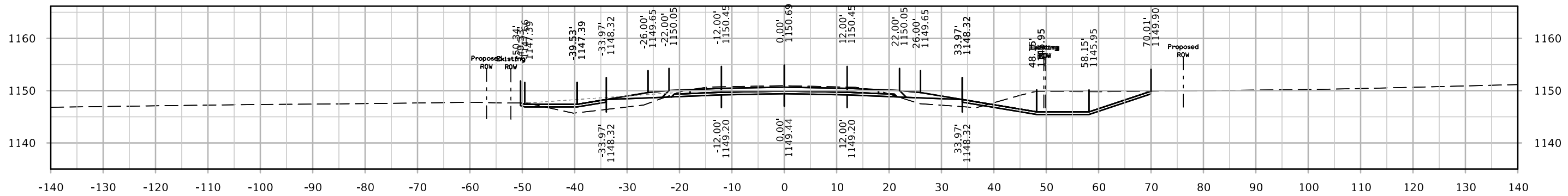
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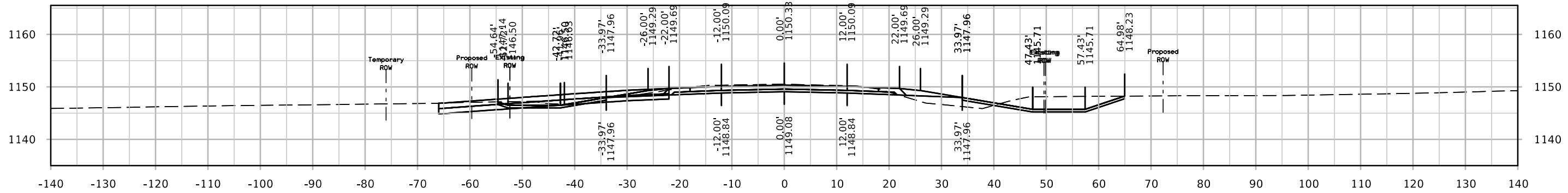


STA. 1490+50.00

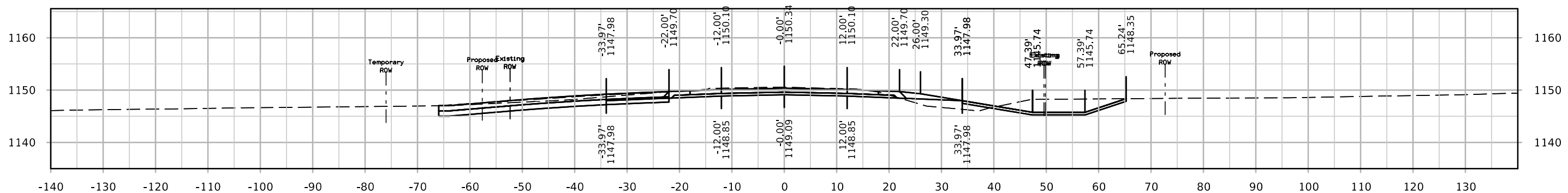




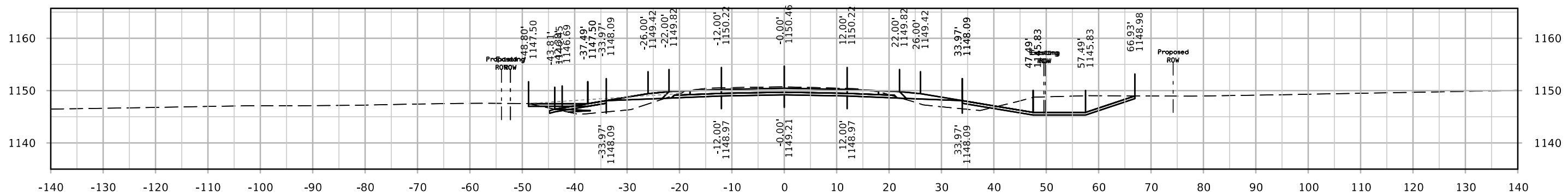




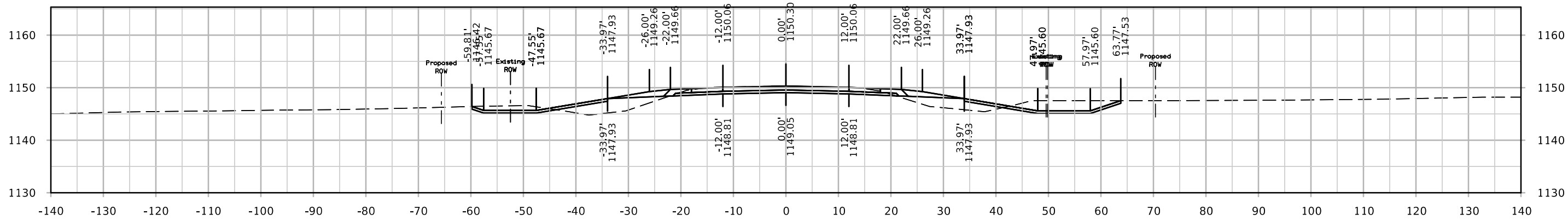
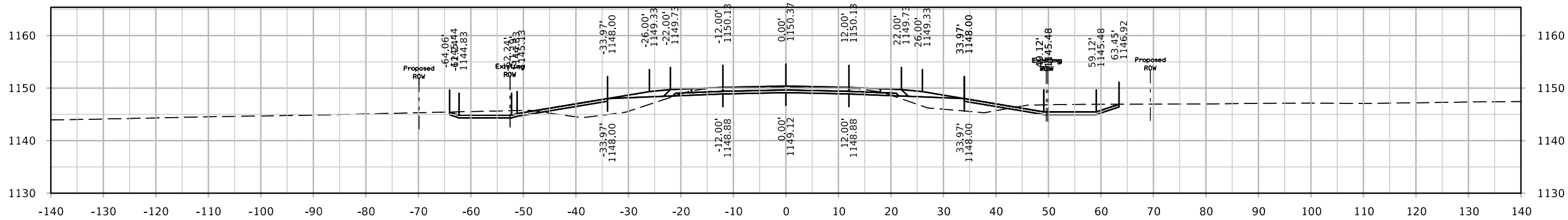
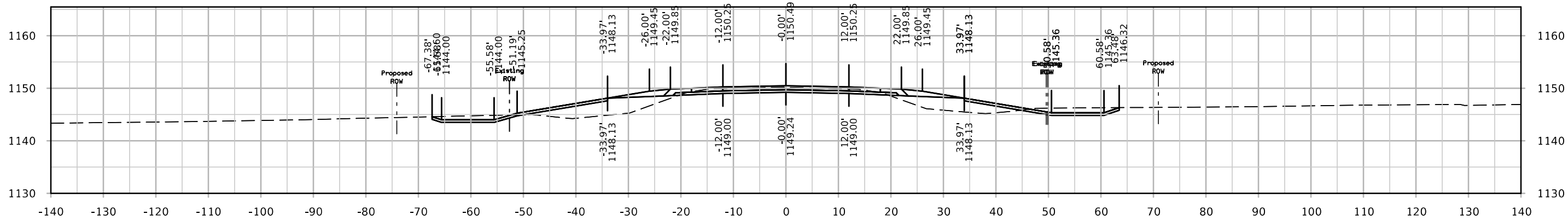
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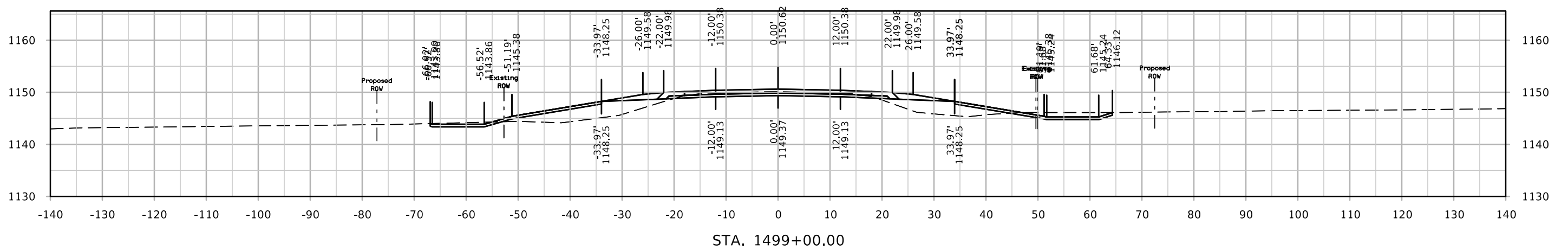
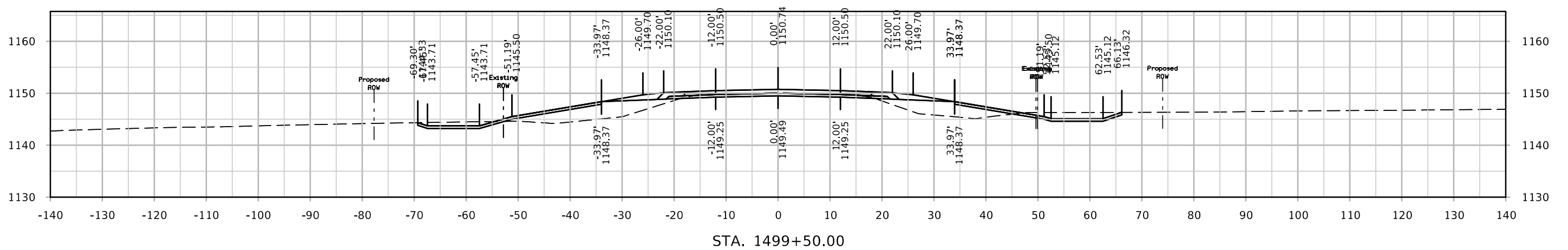
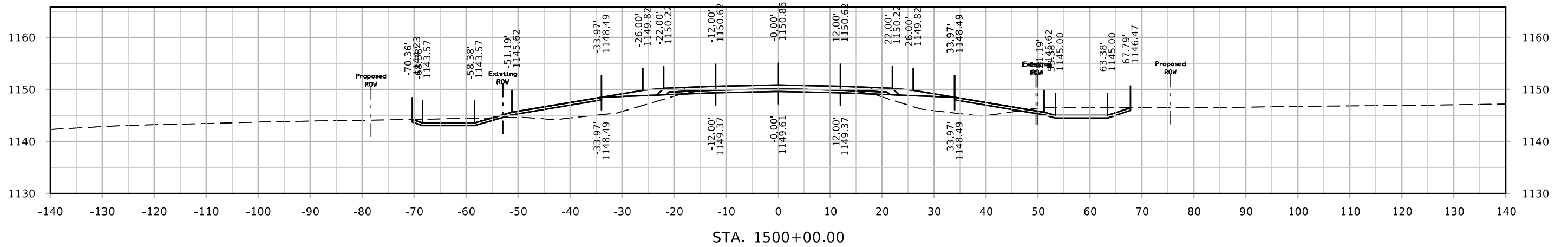


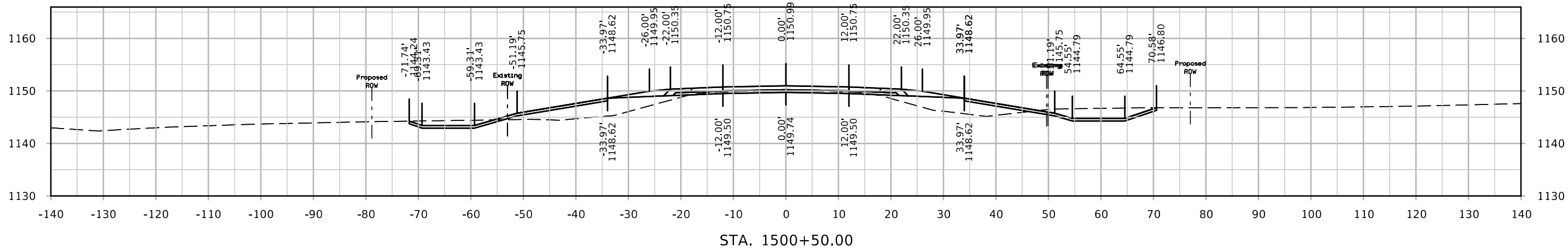
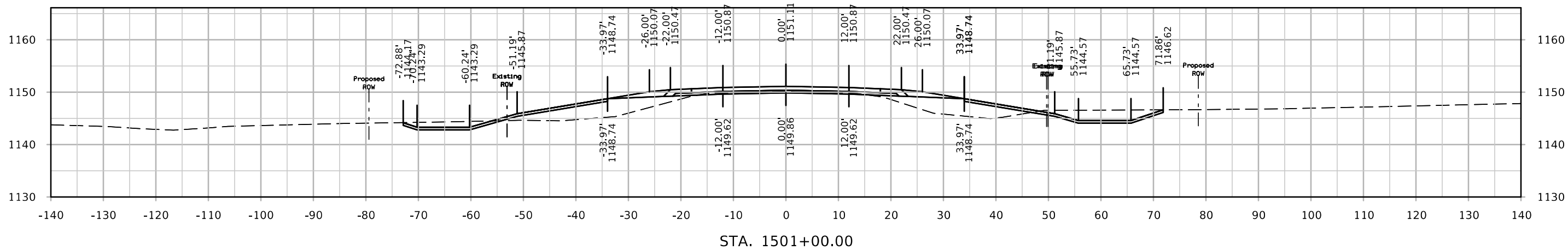
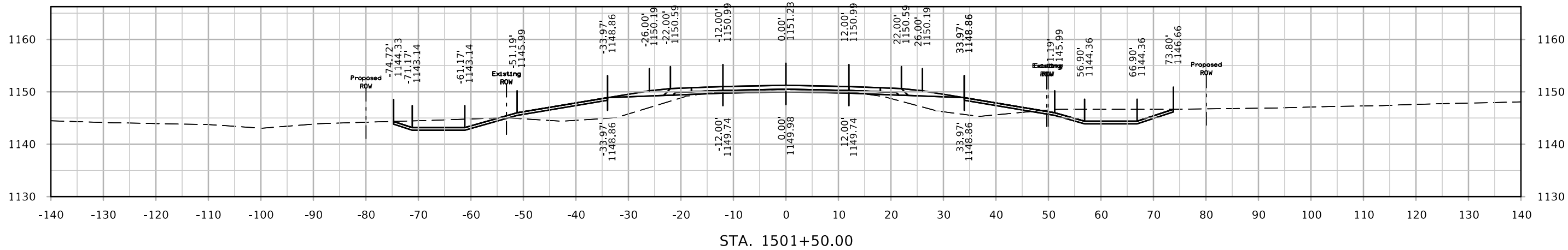
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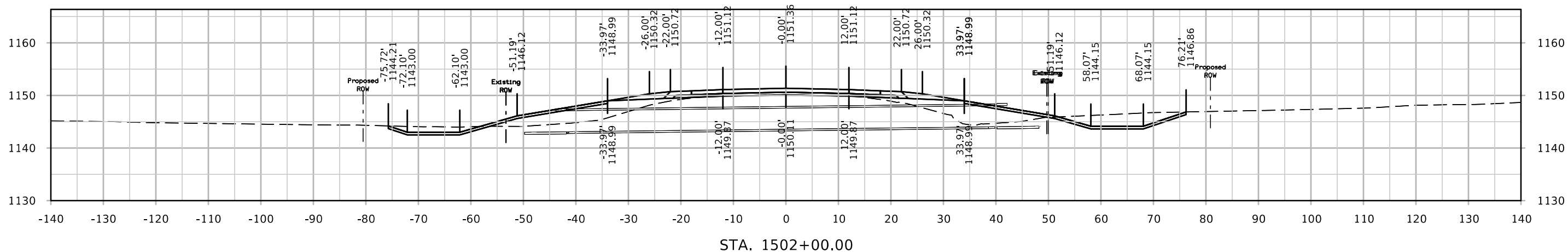
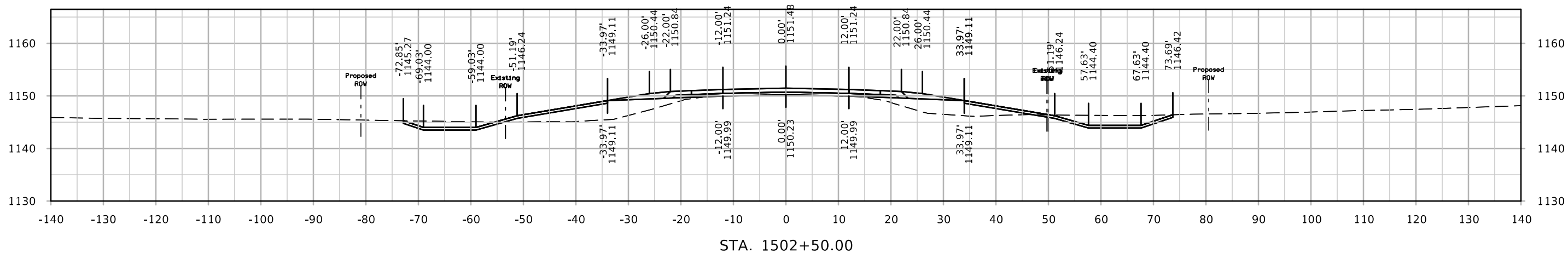
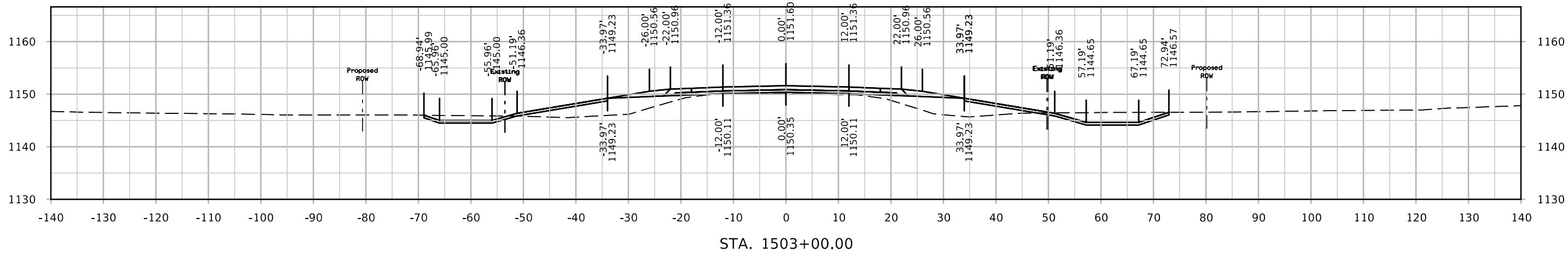


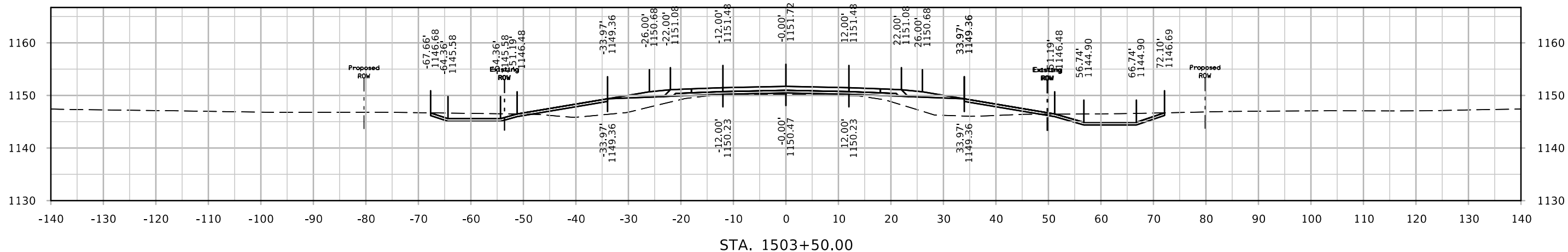
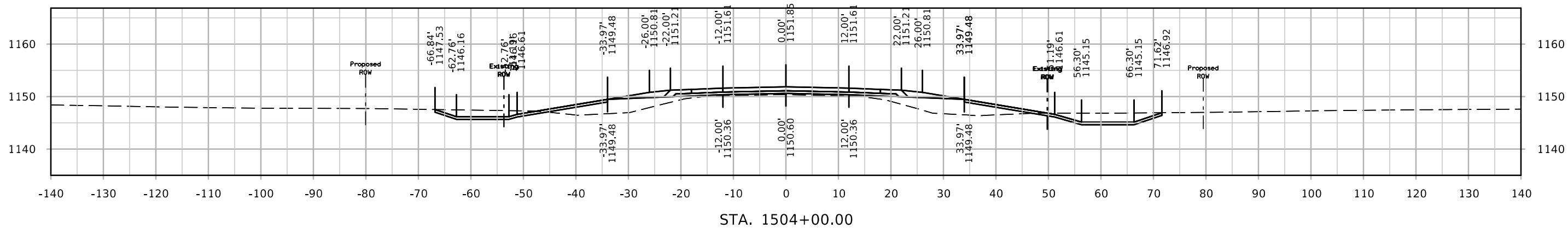
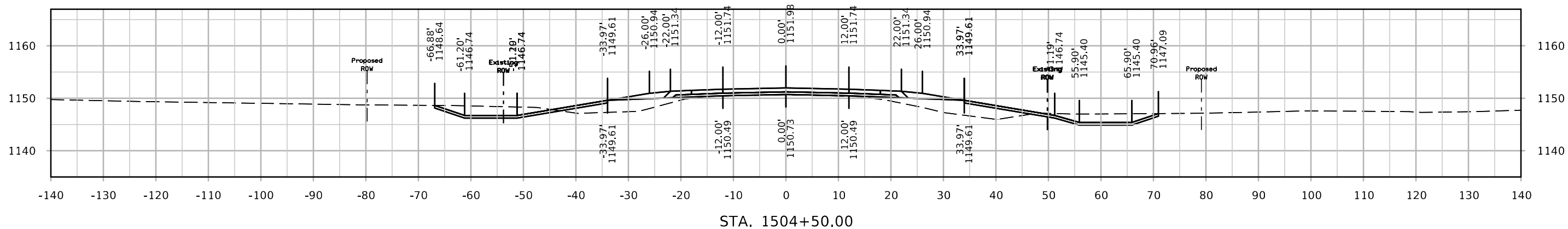
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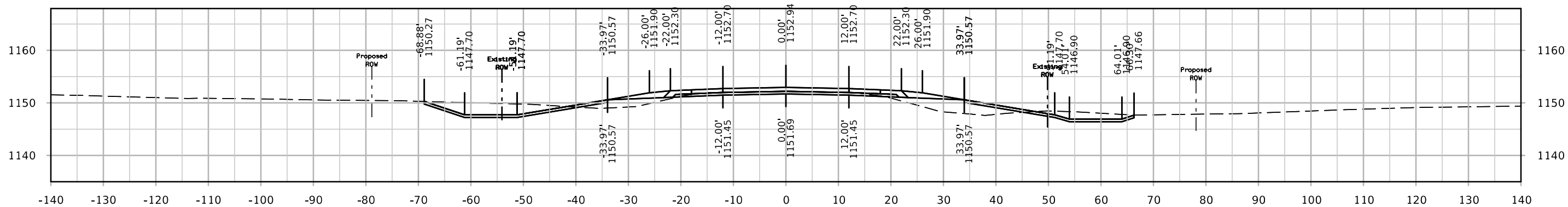




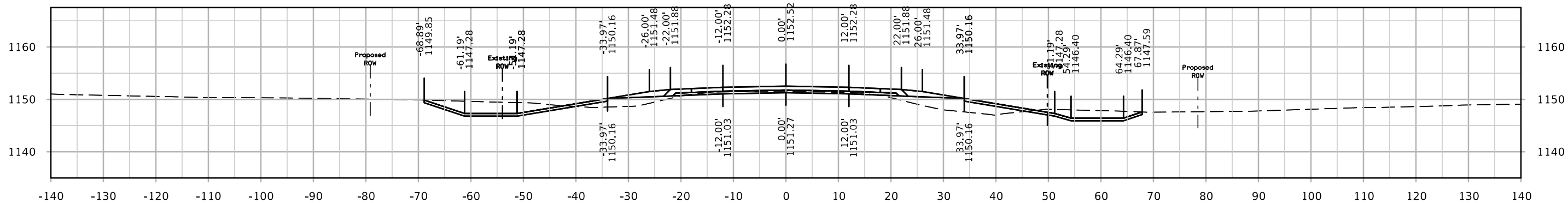




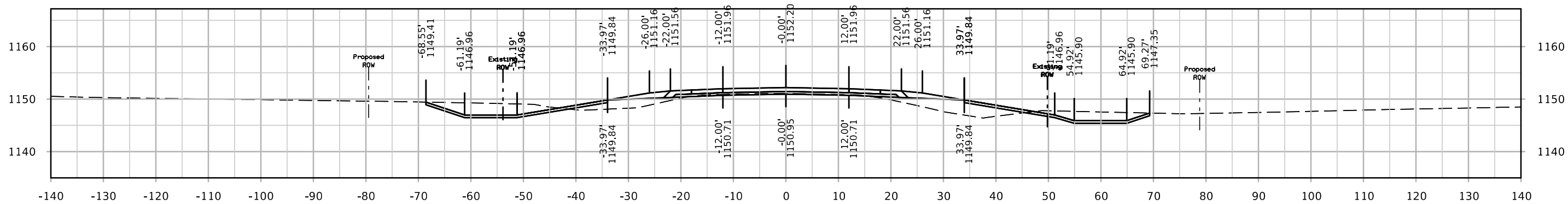




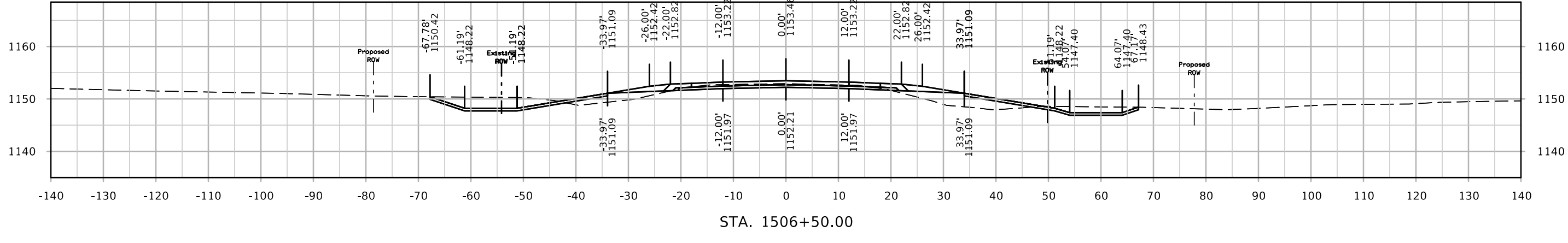
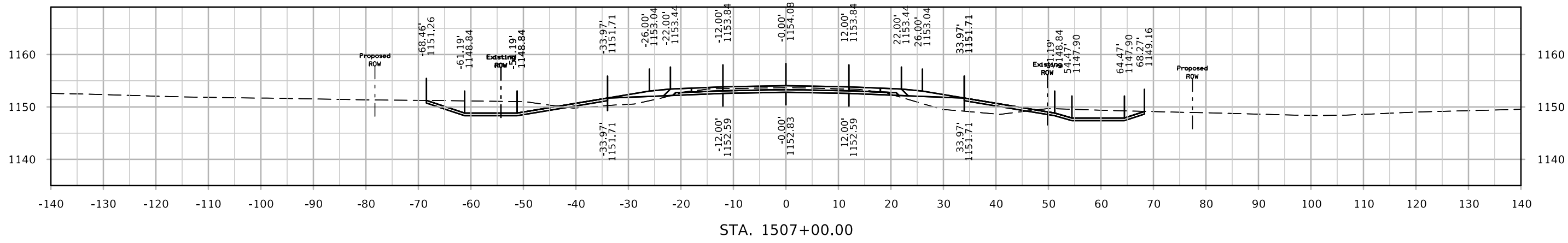
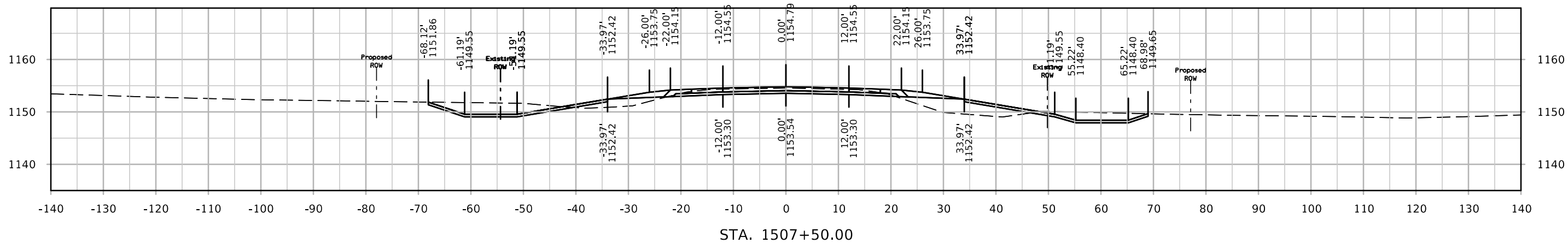
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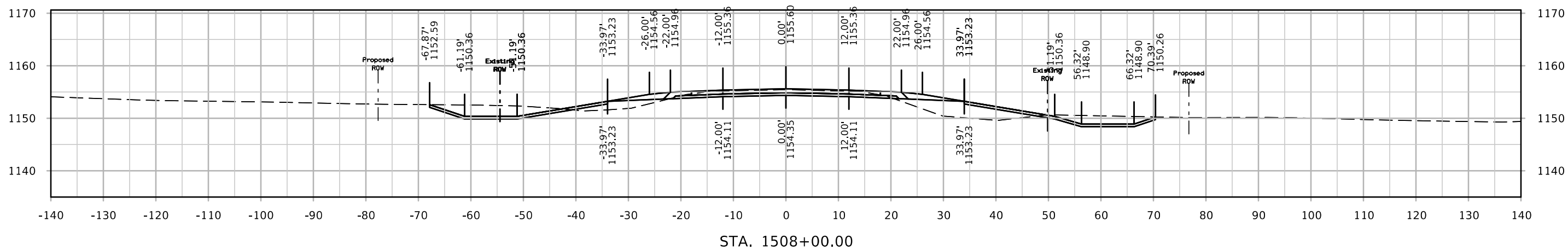
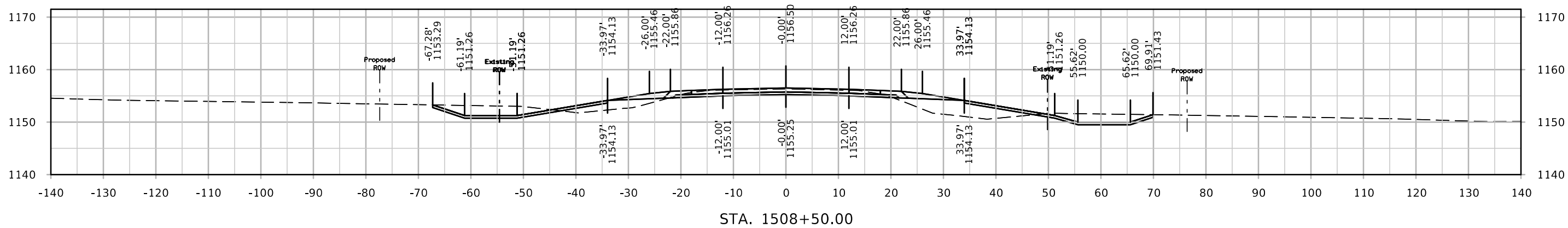
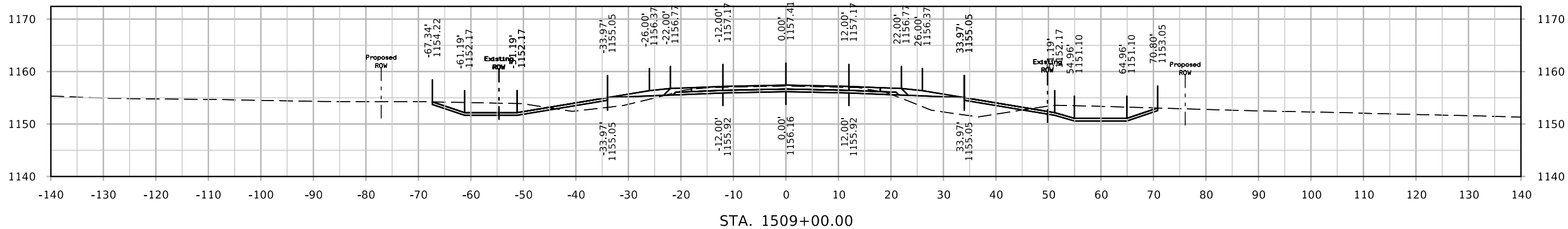


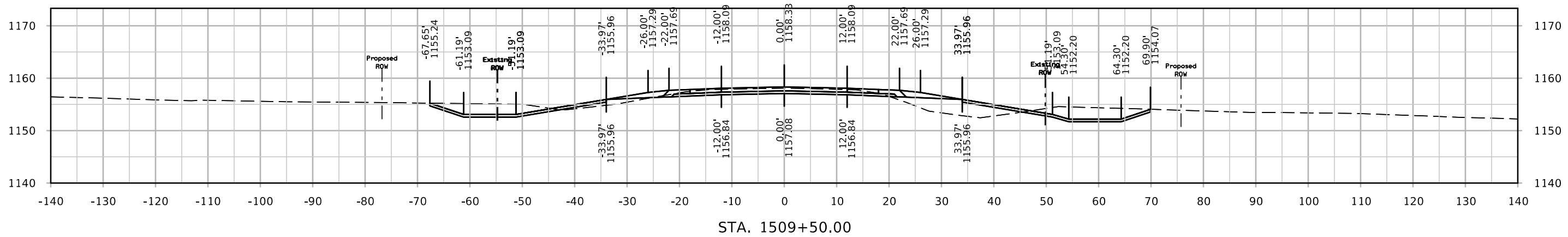
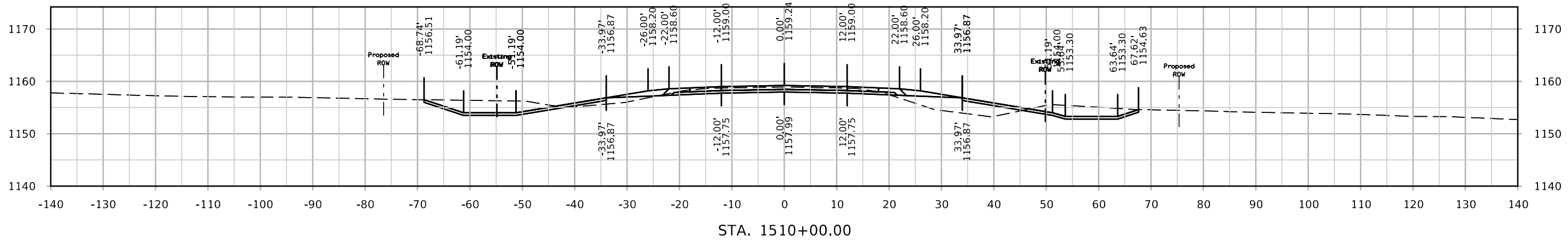
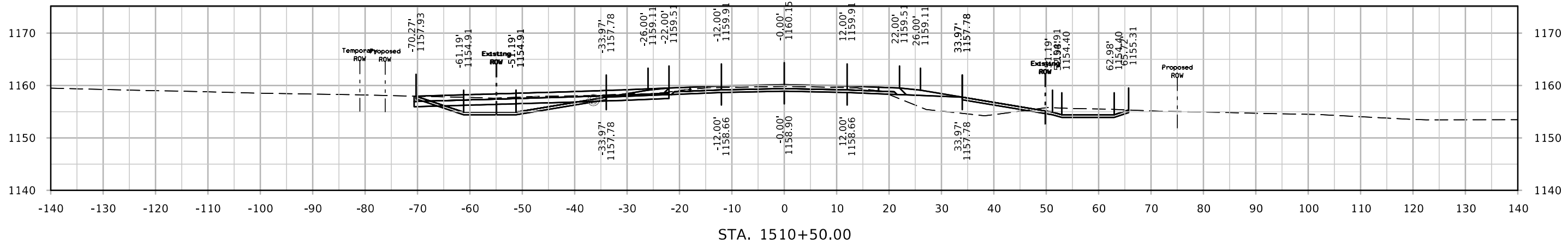
STA. 1505+50.00

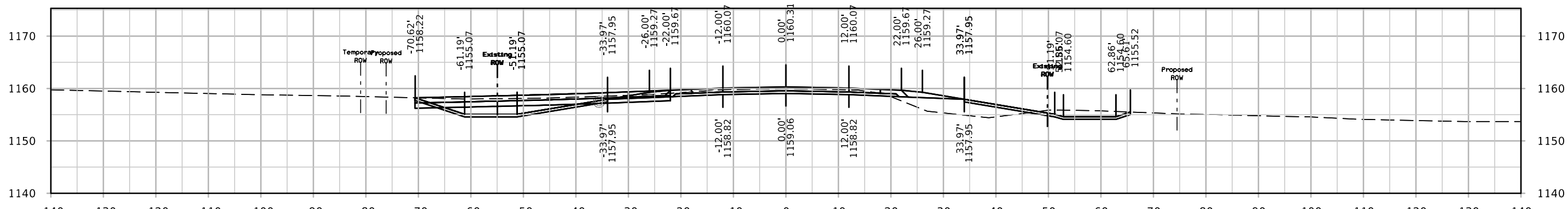
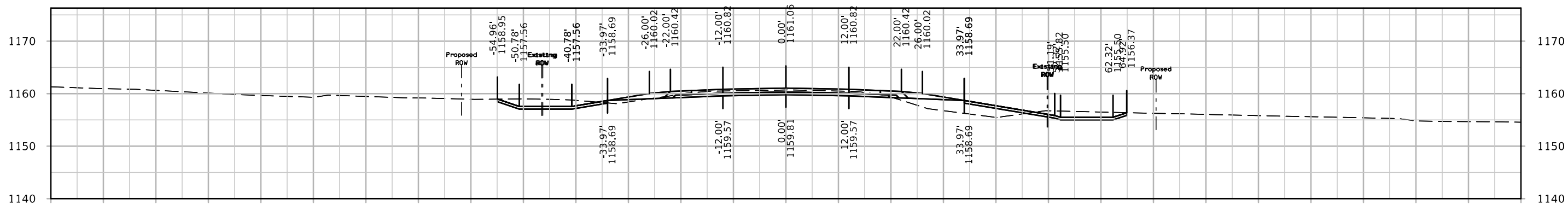
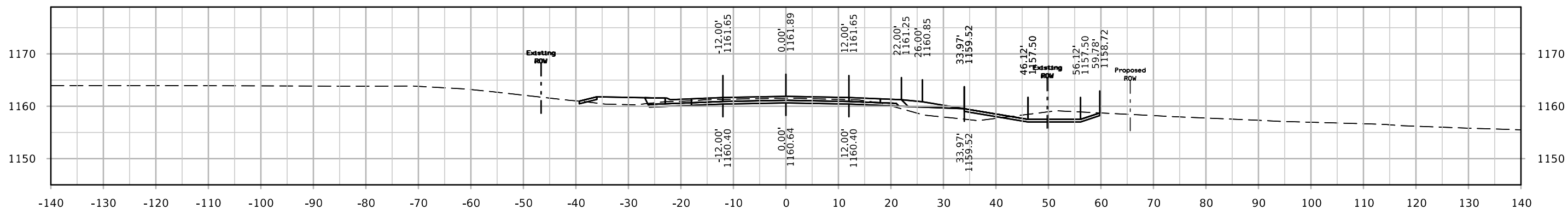


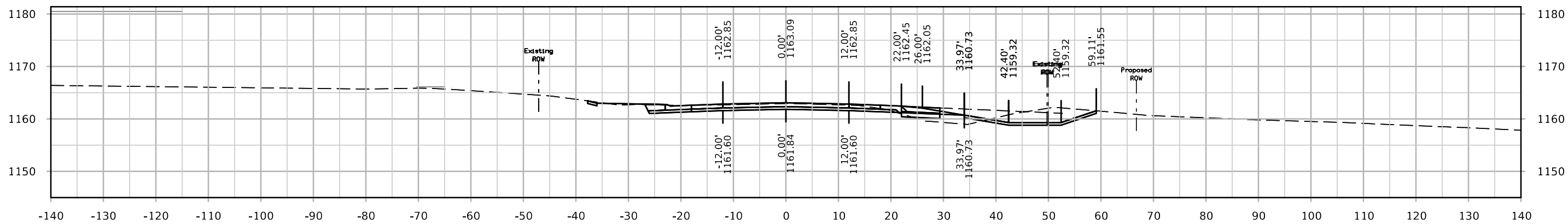
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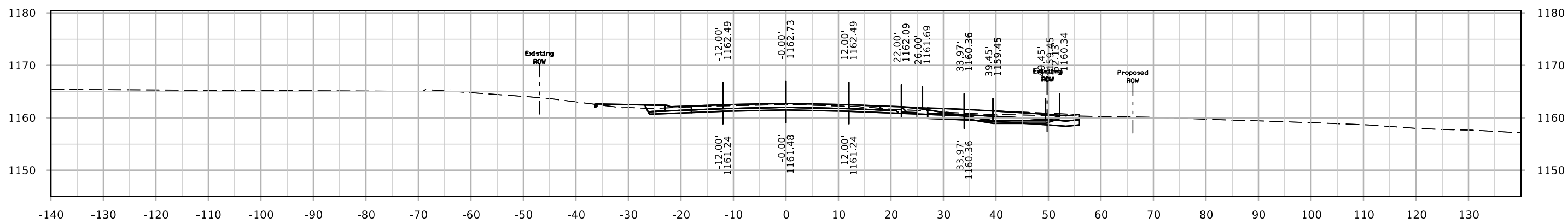




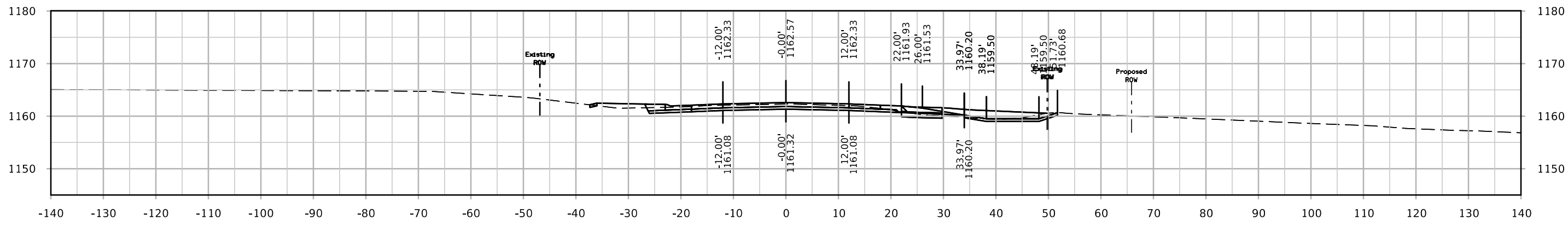




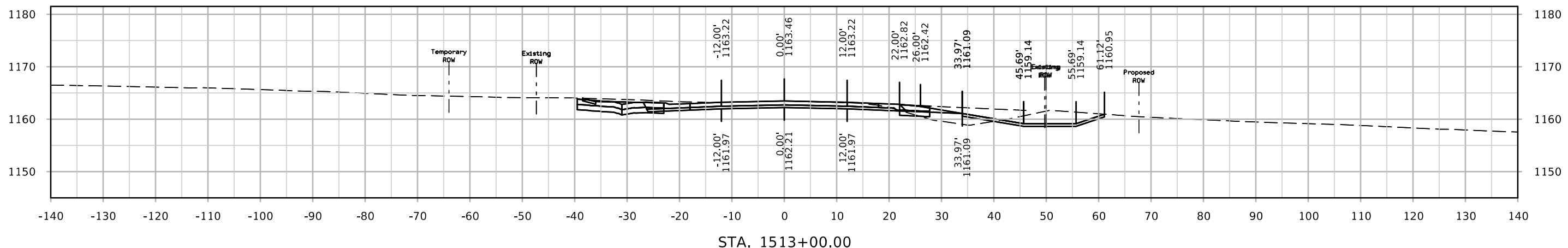
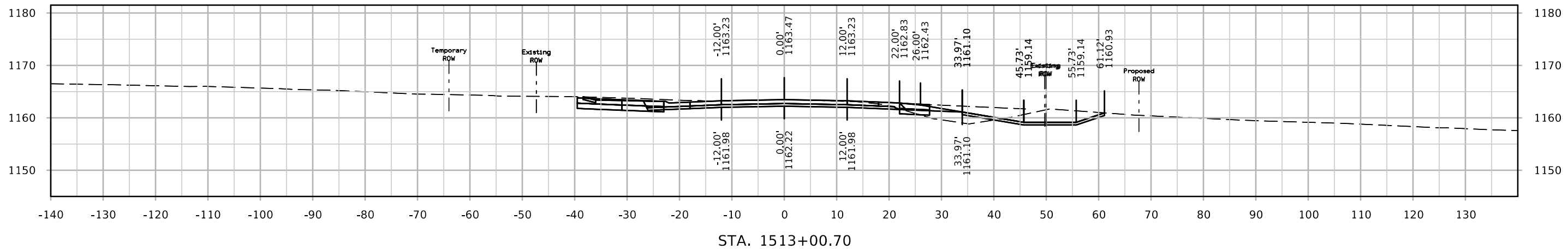
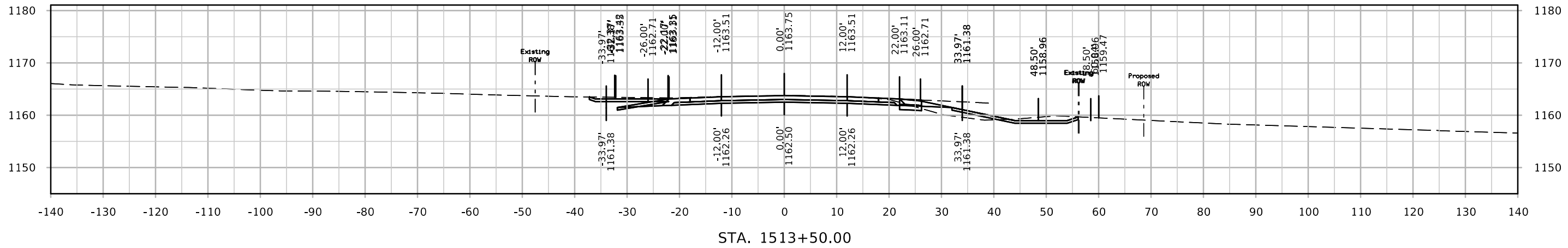
STA. 1512+50.00

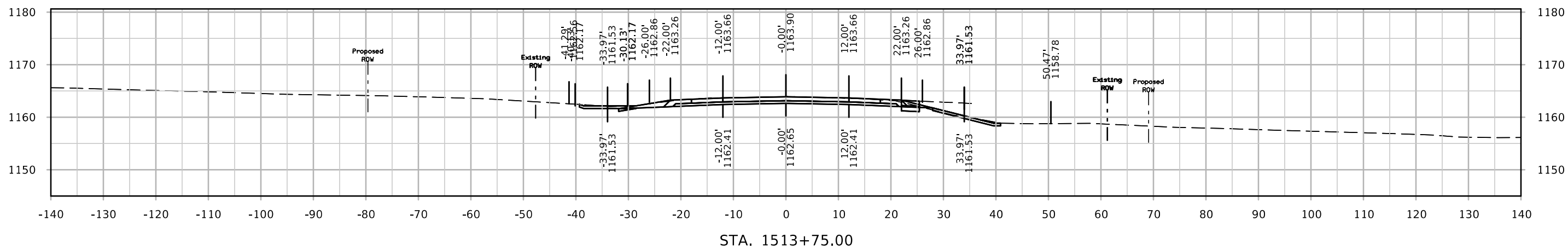


STA. 1512+13.88



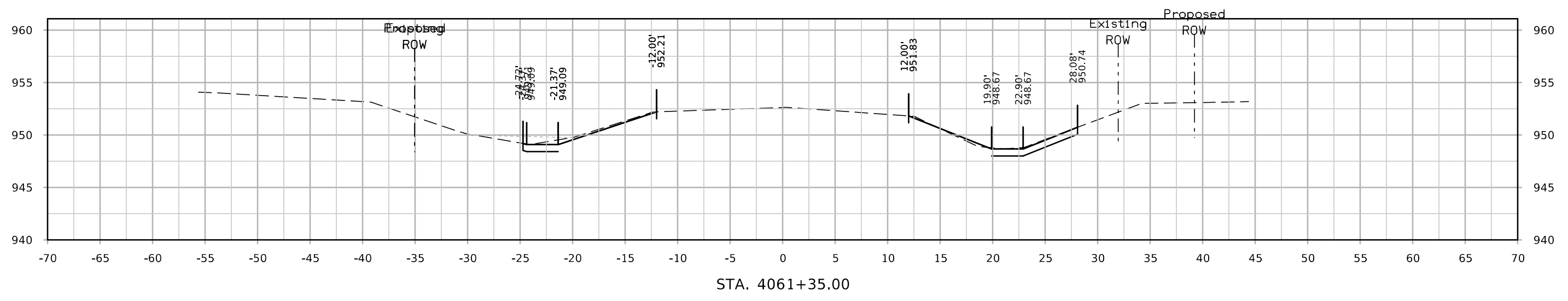
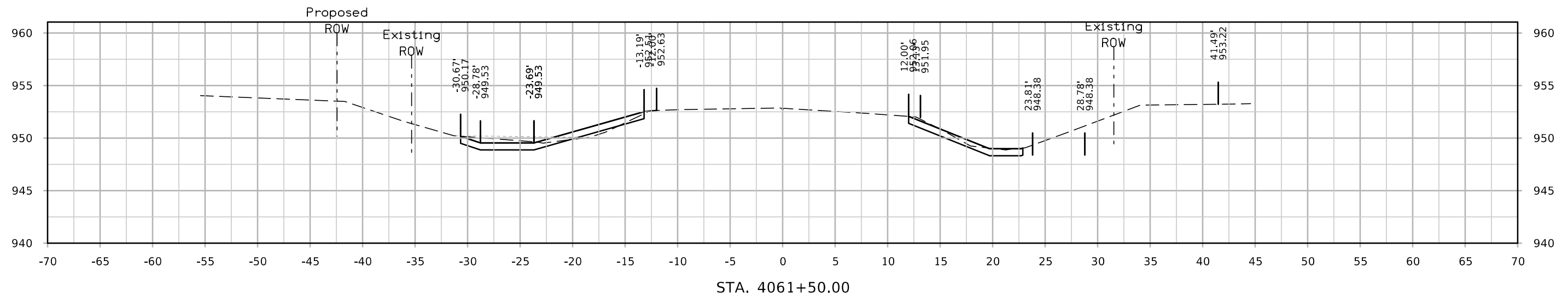
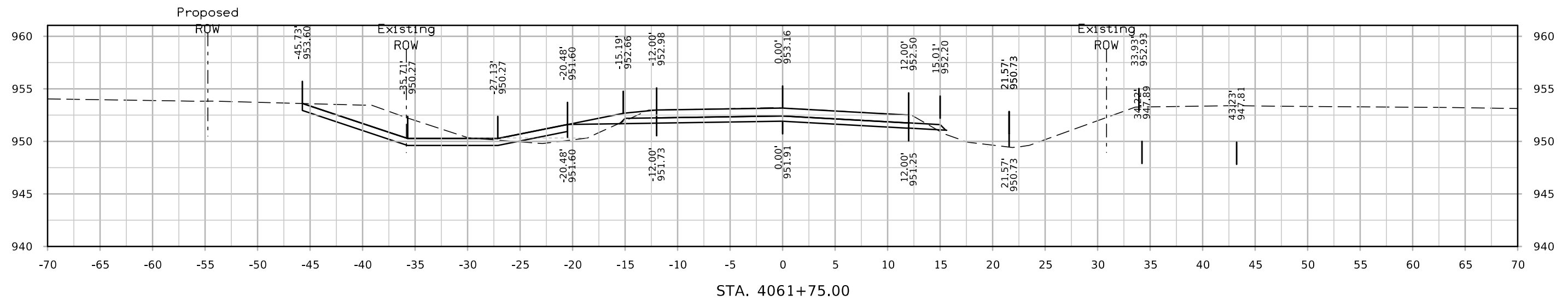
STA. 1512+00.00



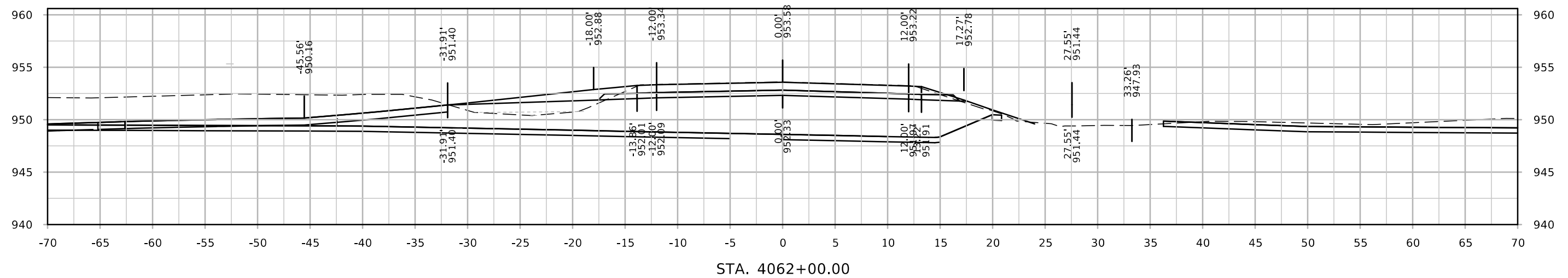
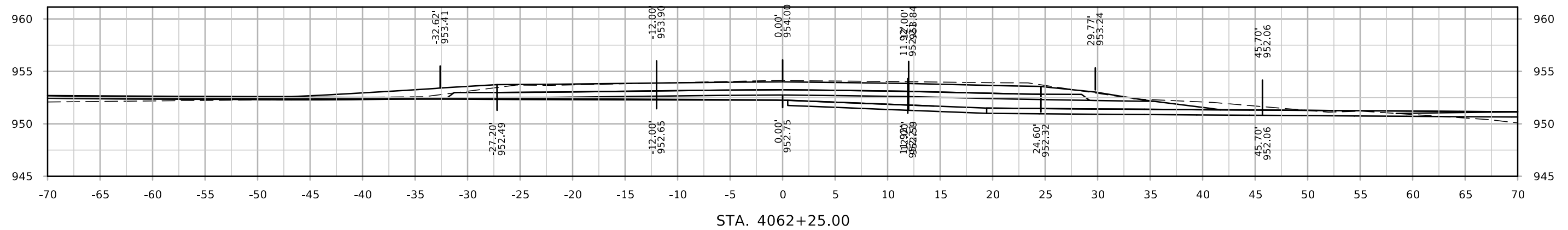
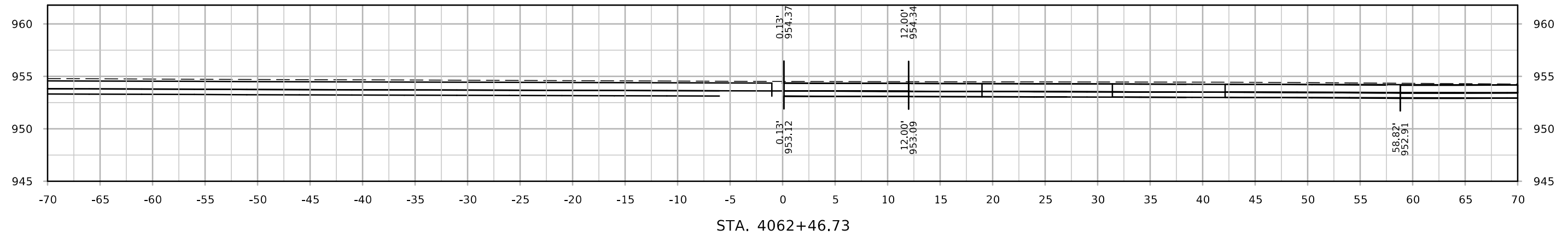


STA. 1513+75.00

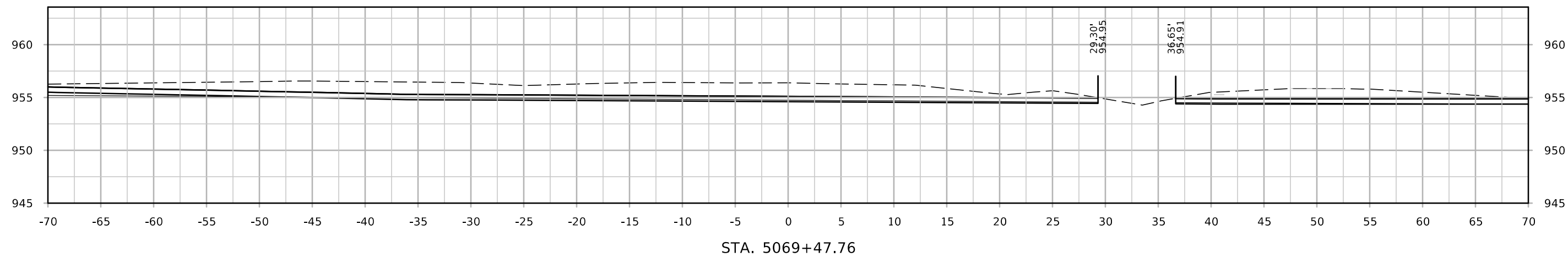
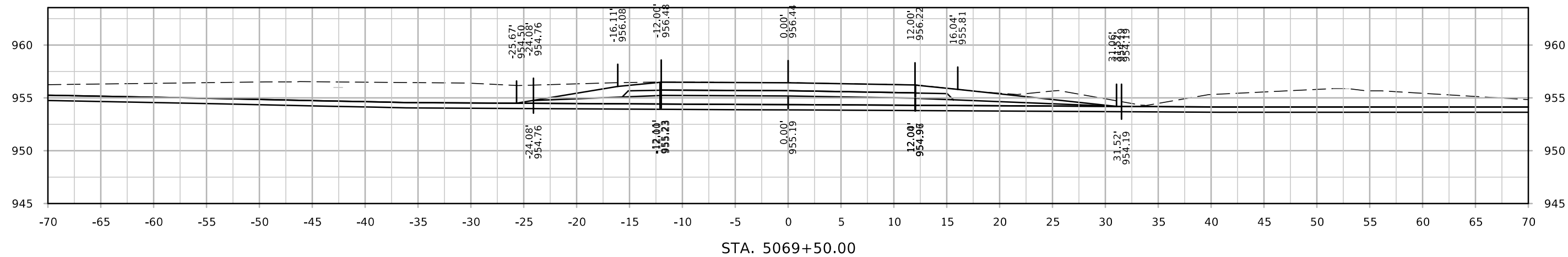
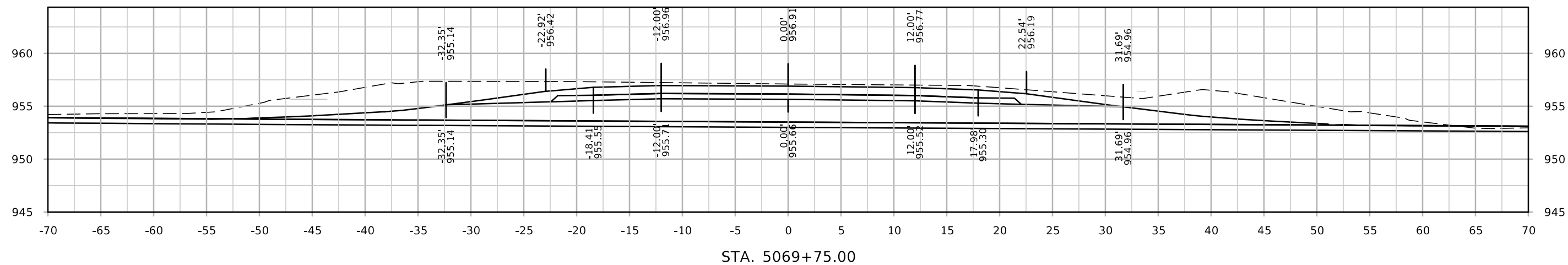
Firefly Rd



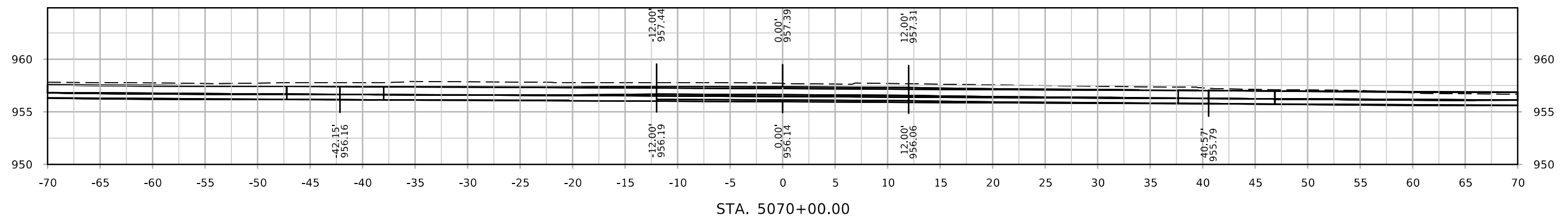
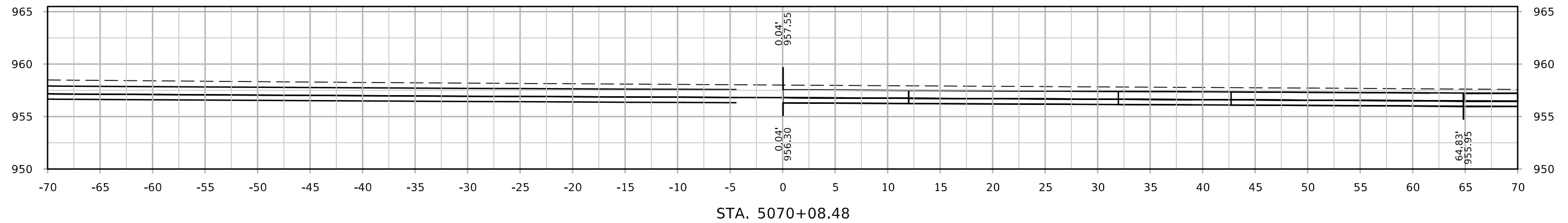
Firefly Rd



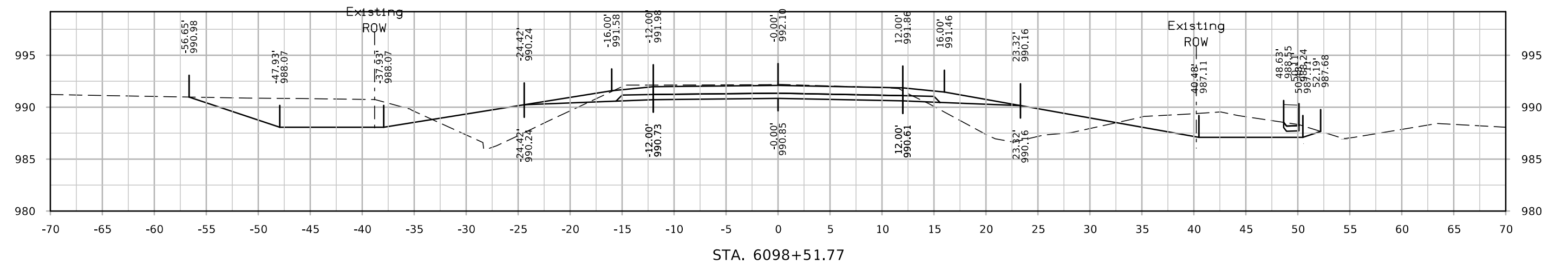
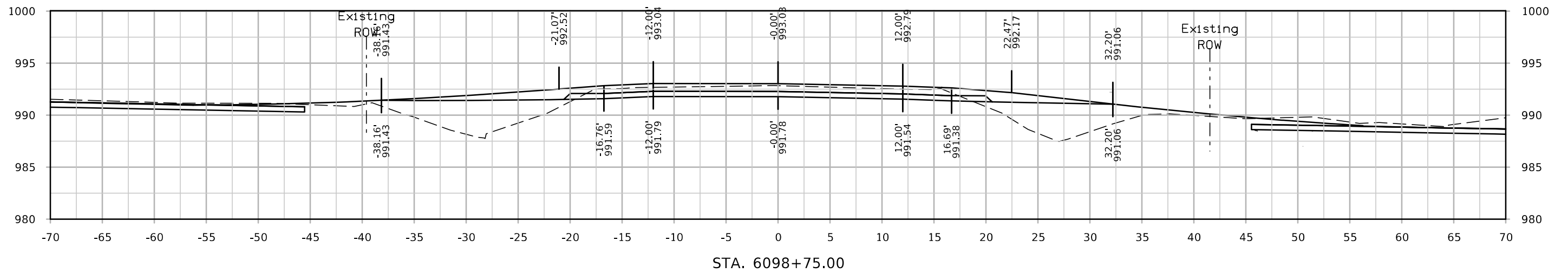
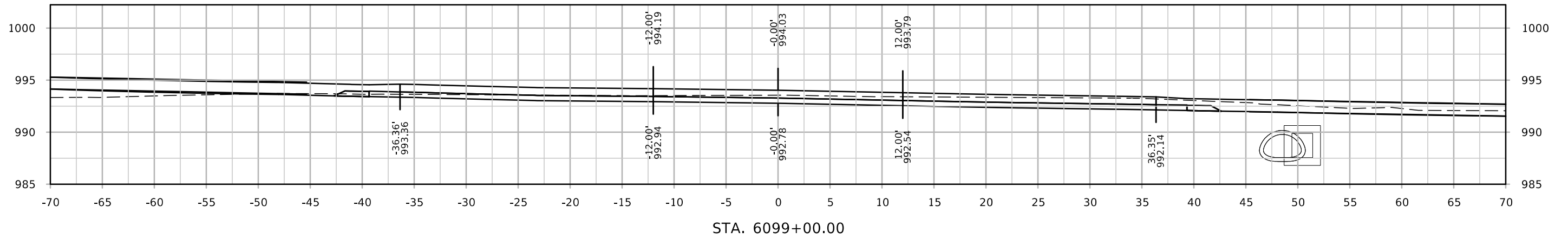
185th St



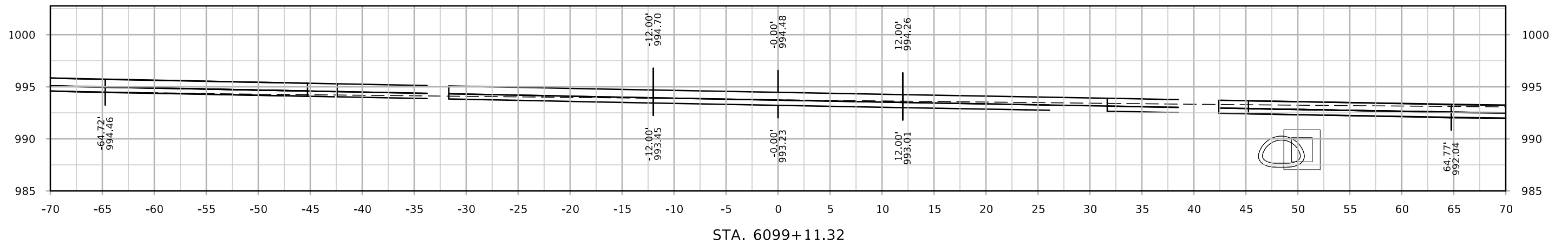
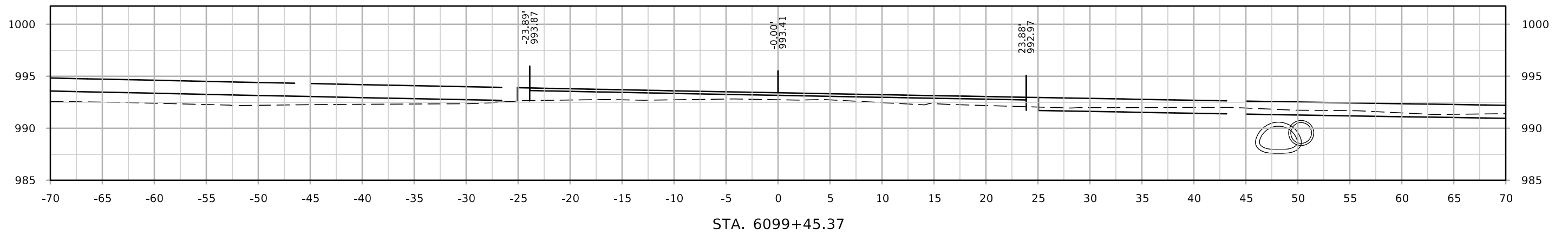
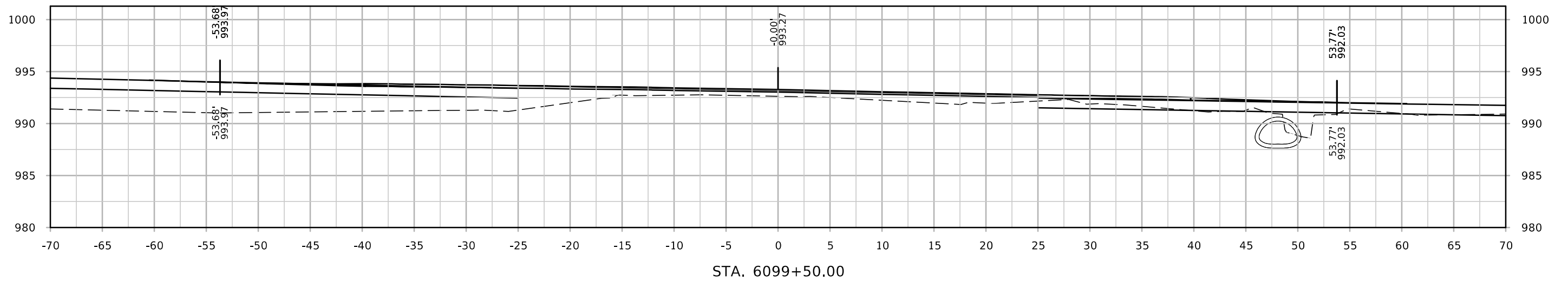
185th St



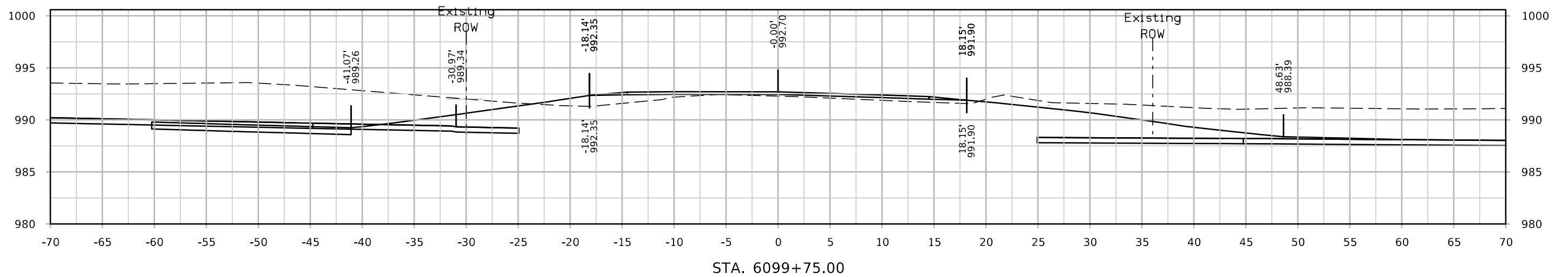
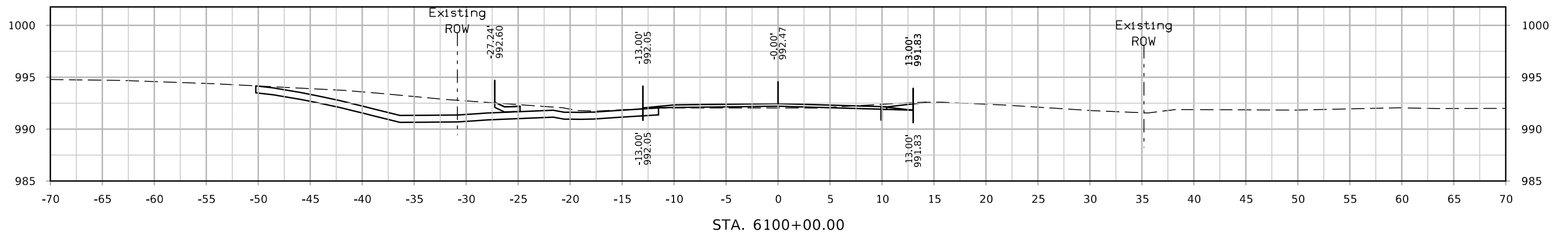
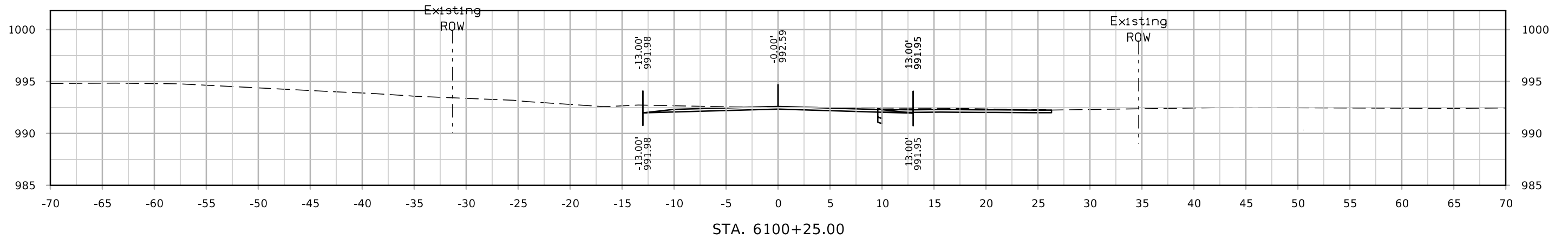
180th St



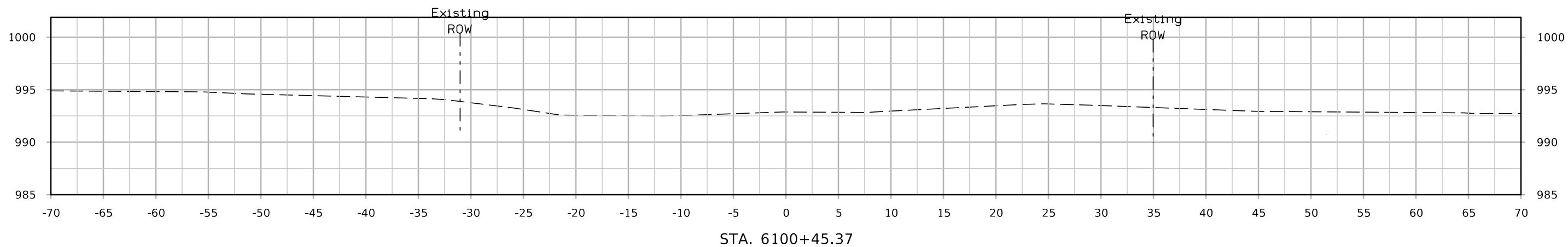
180th St



180th St

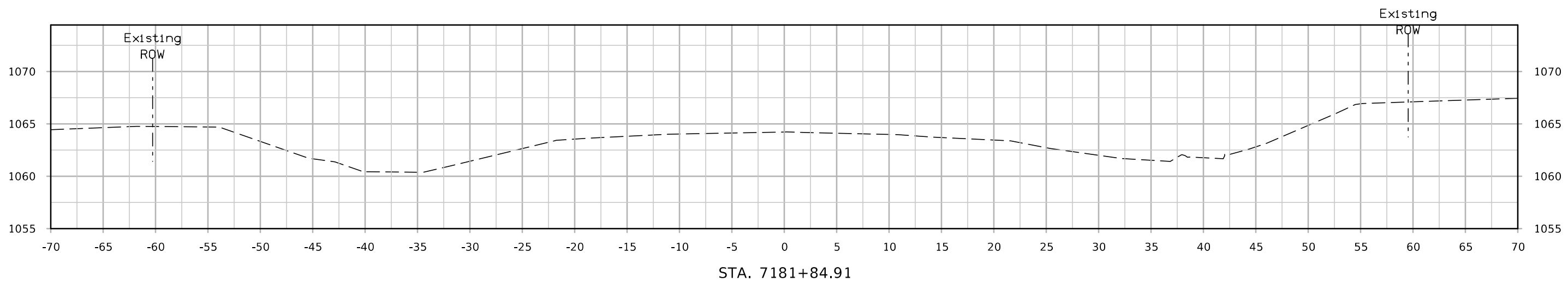
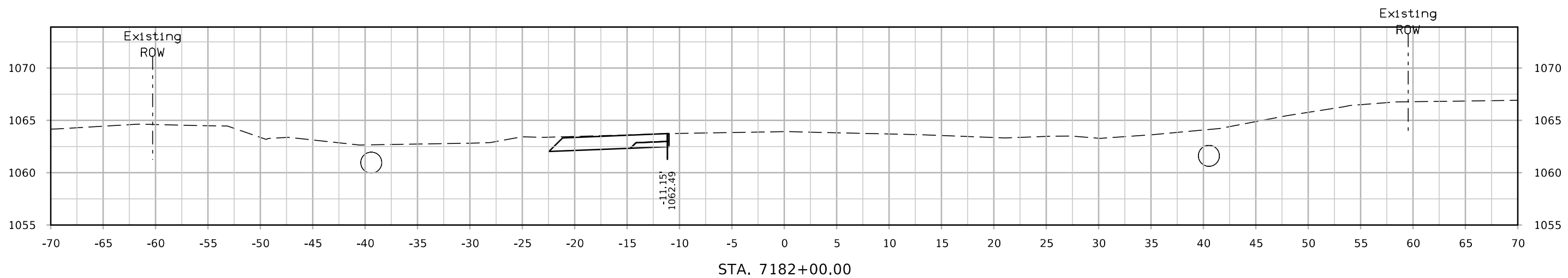
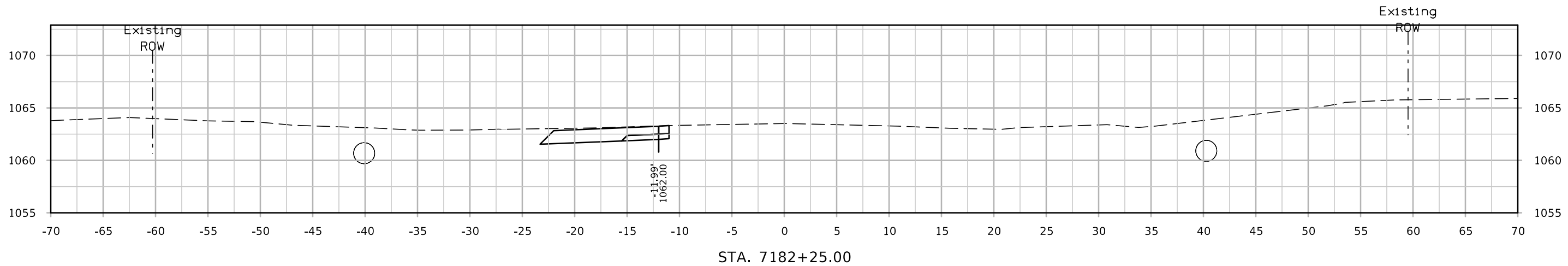


180th St

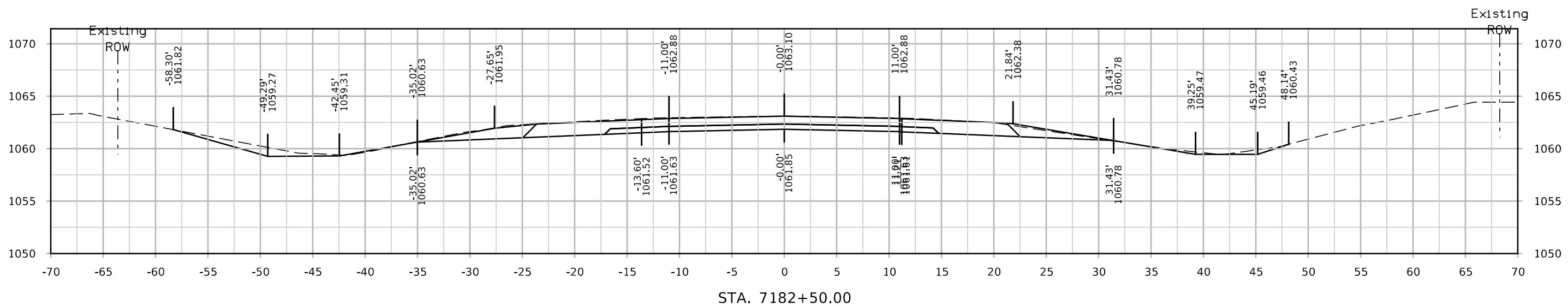
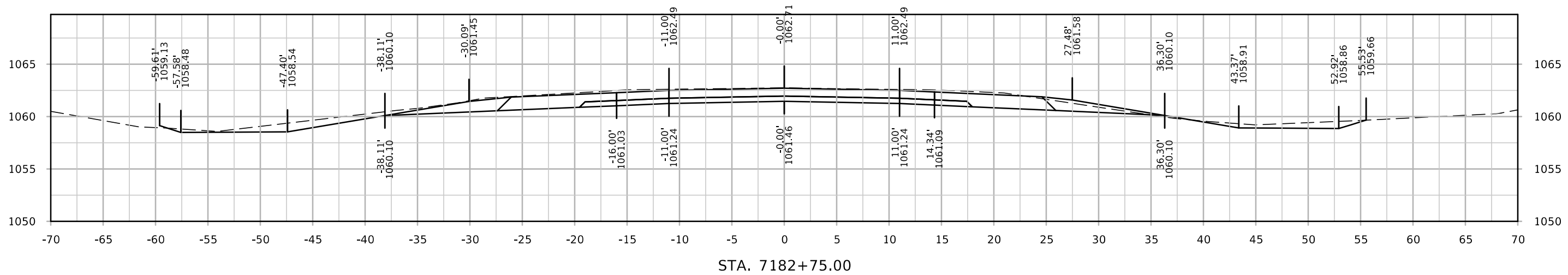
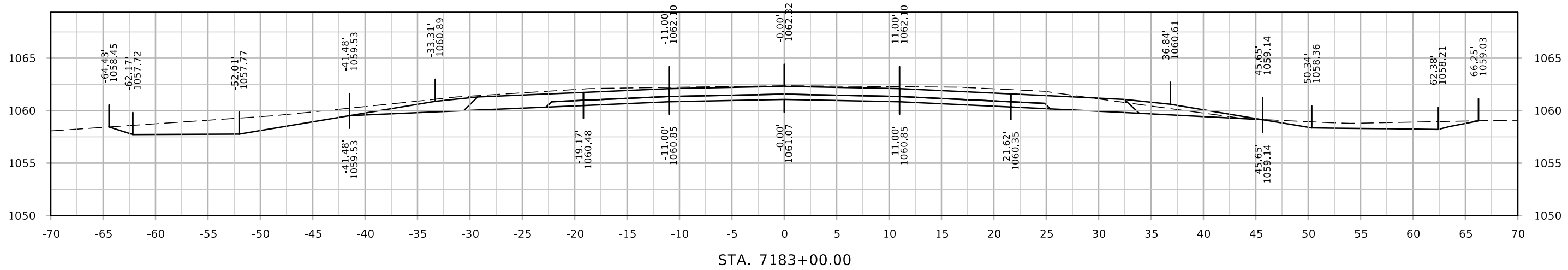


STA. 6100+45.37

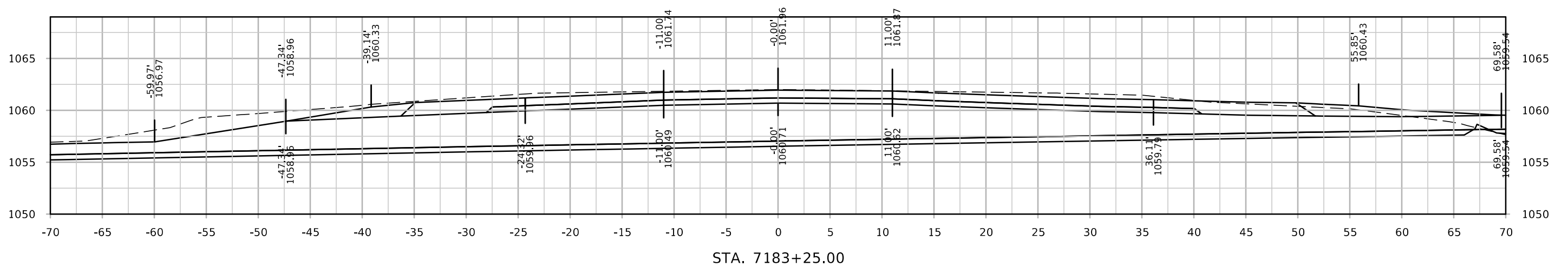
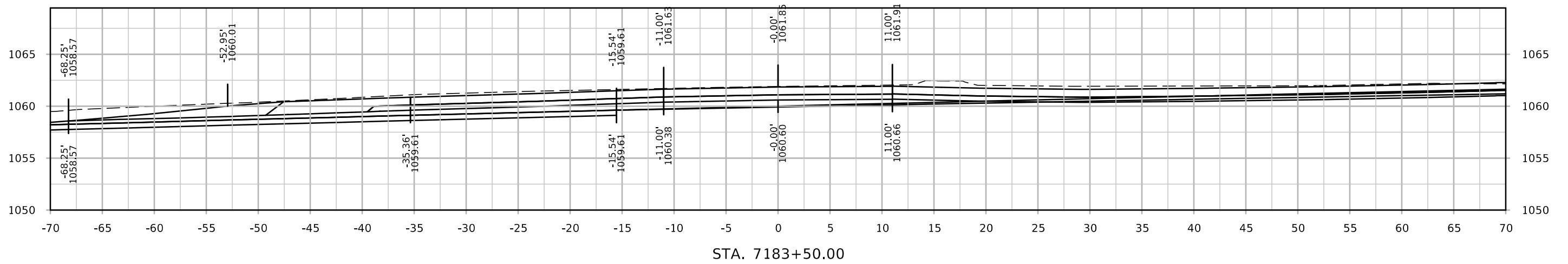
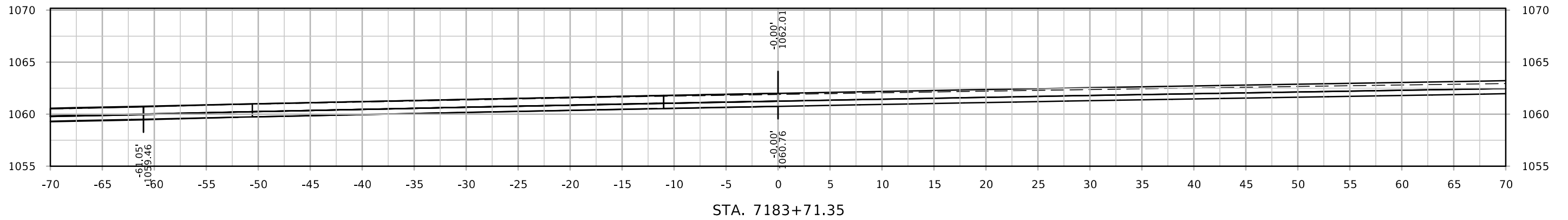
165th St



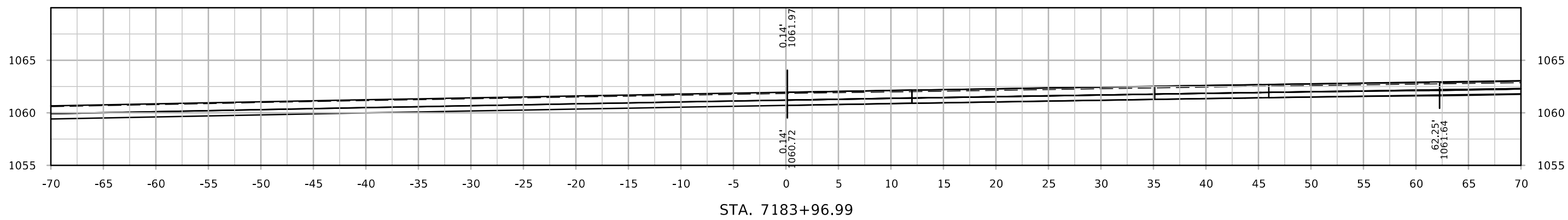
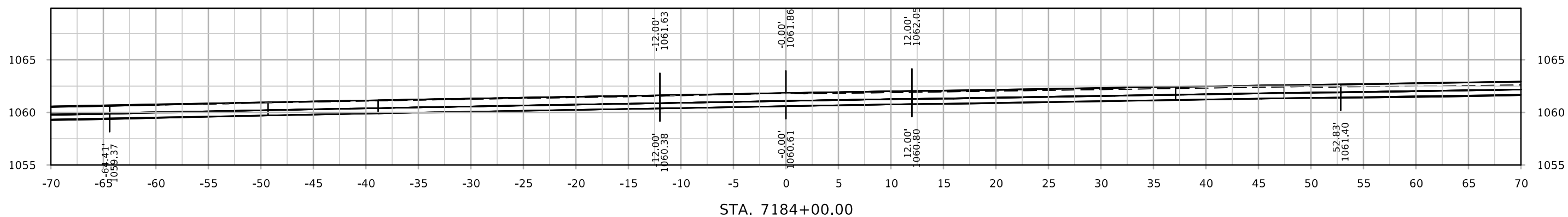
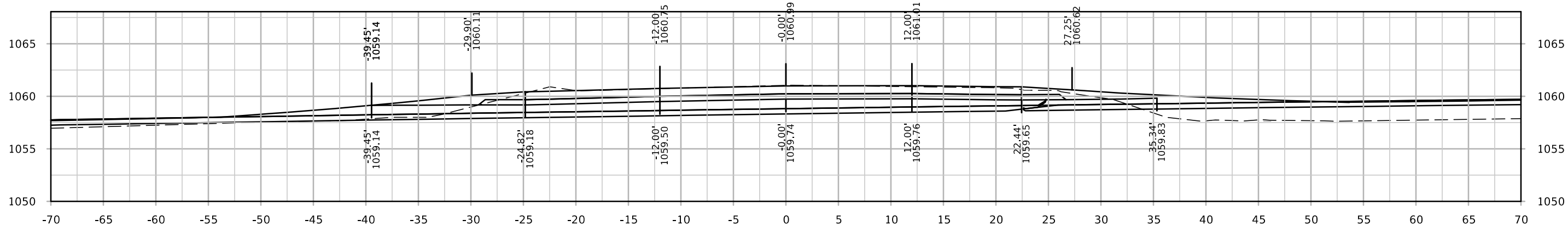
165th St



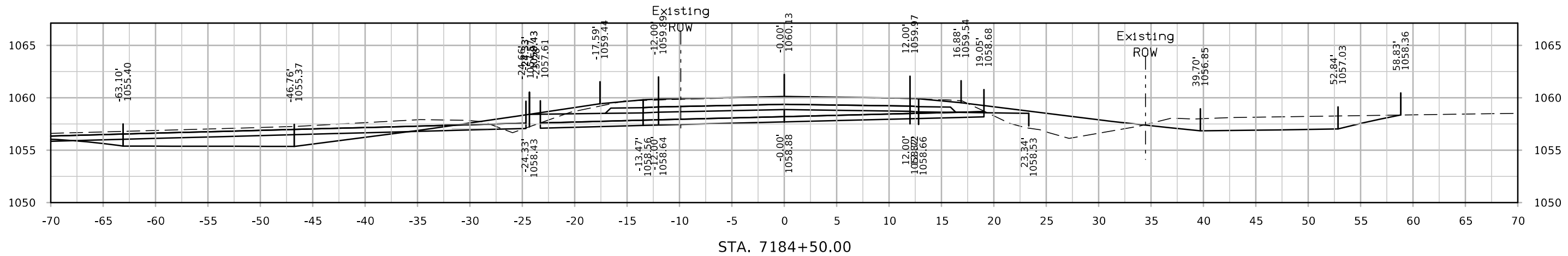
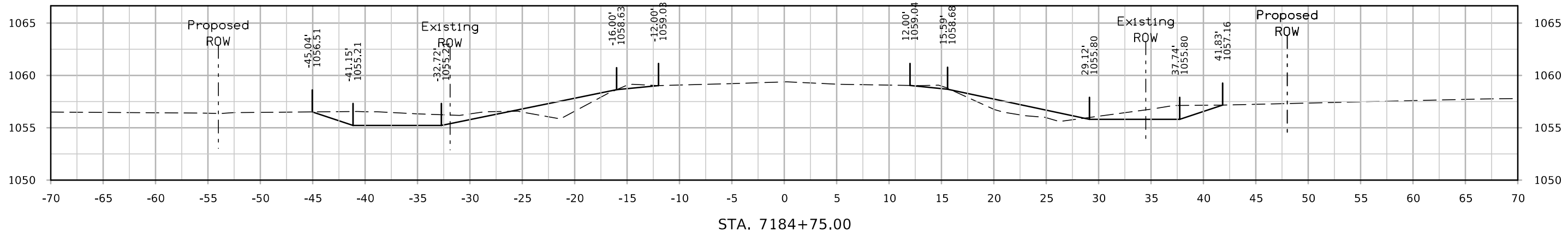
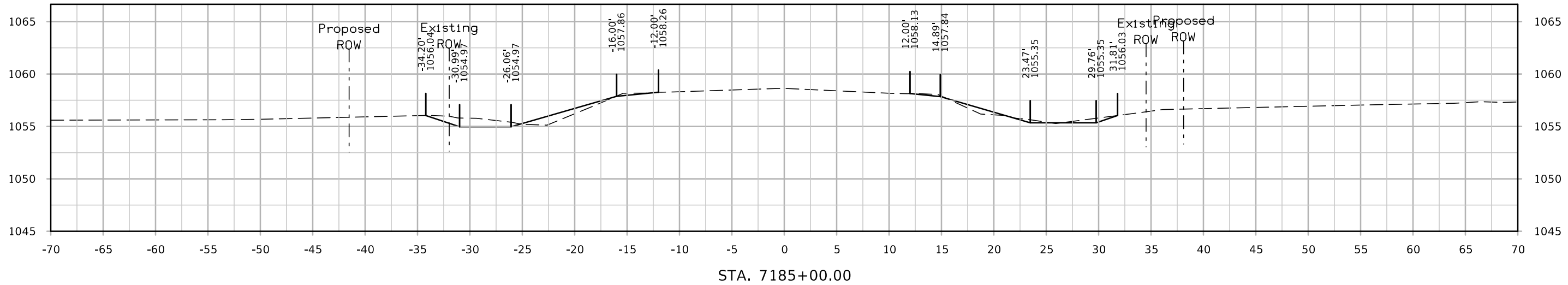
165th St



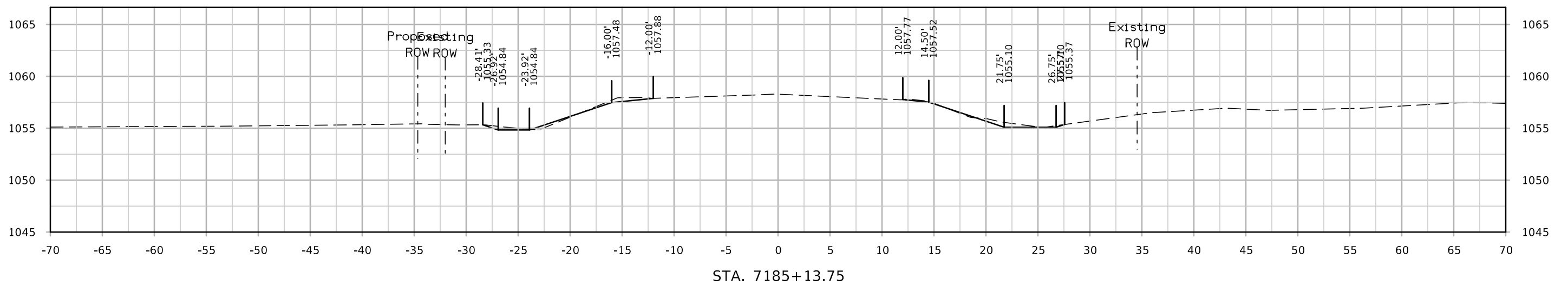
165th St



165th St

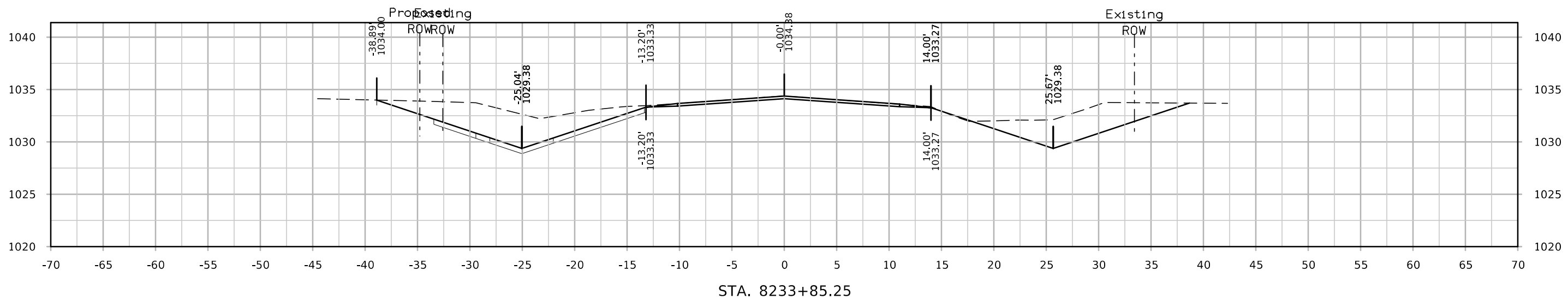
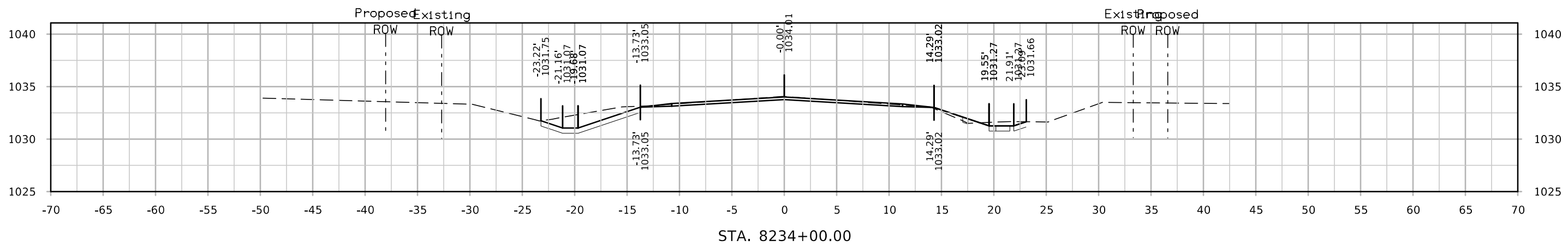
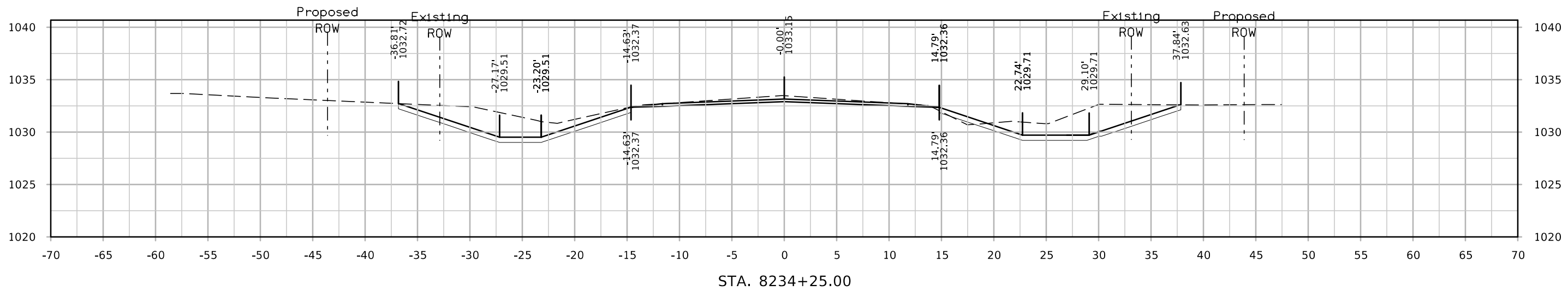


165th St

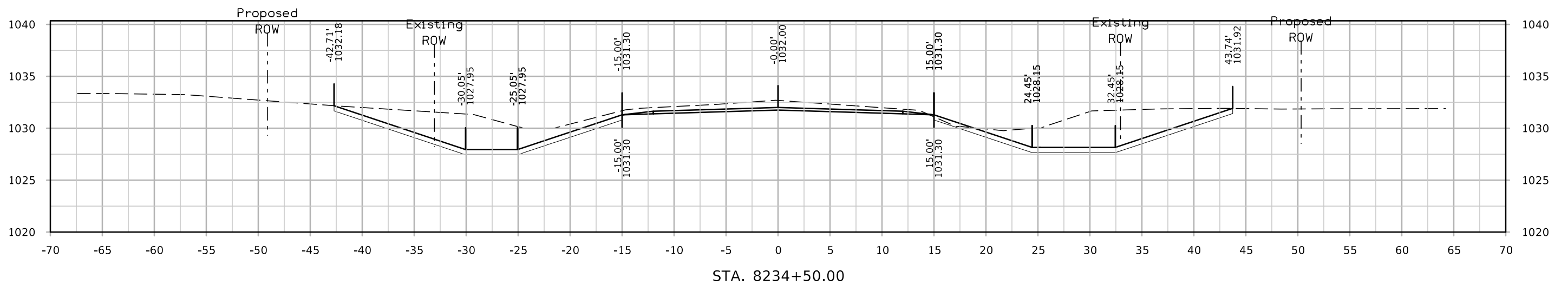
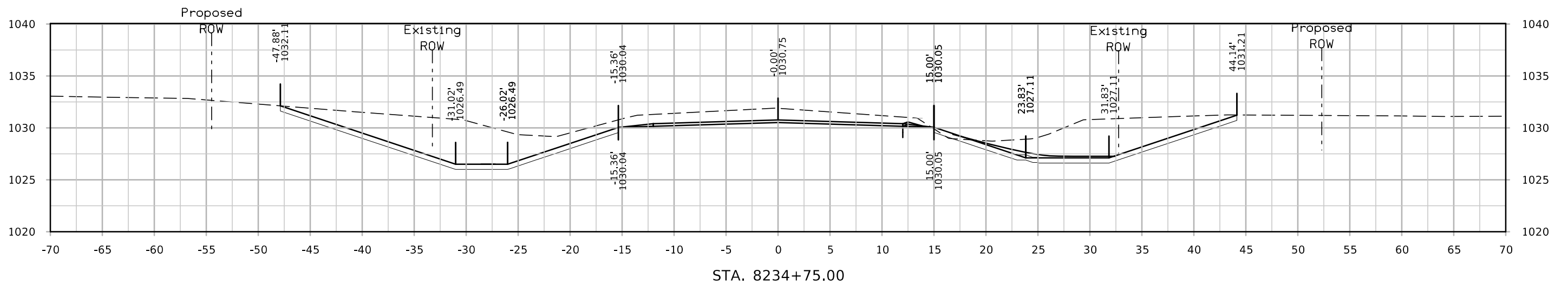
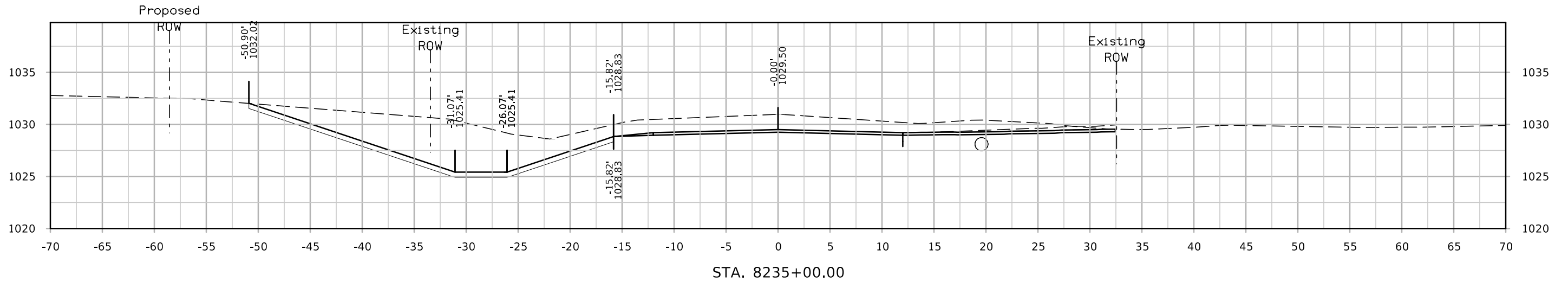


STA. 7185+13.75

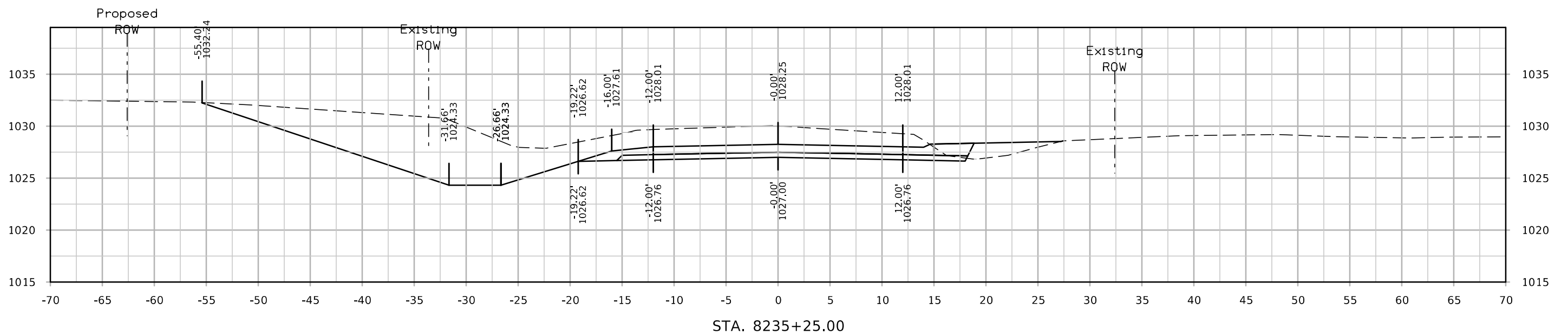
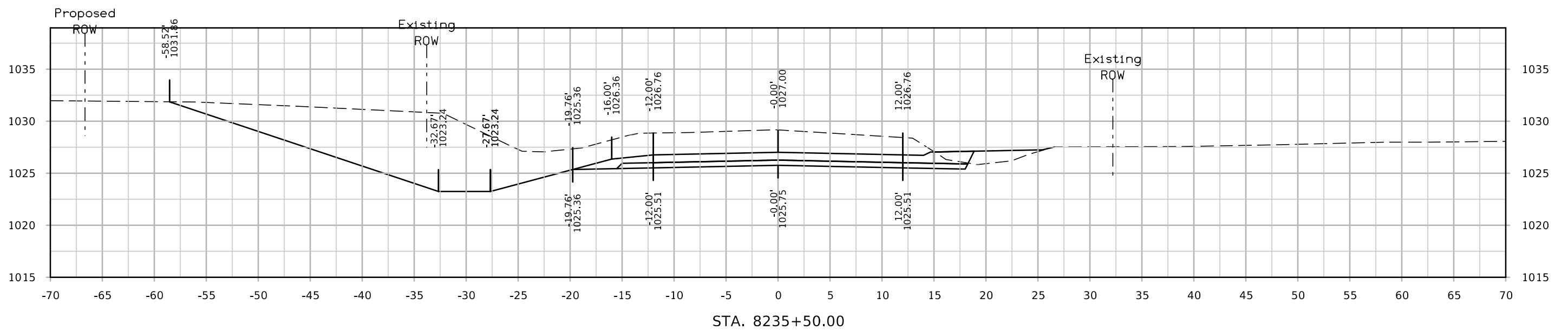
155th St



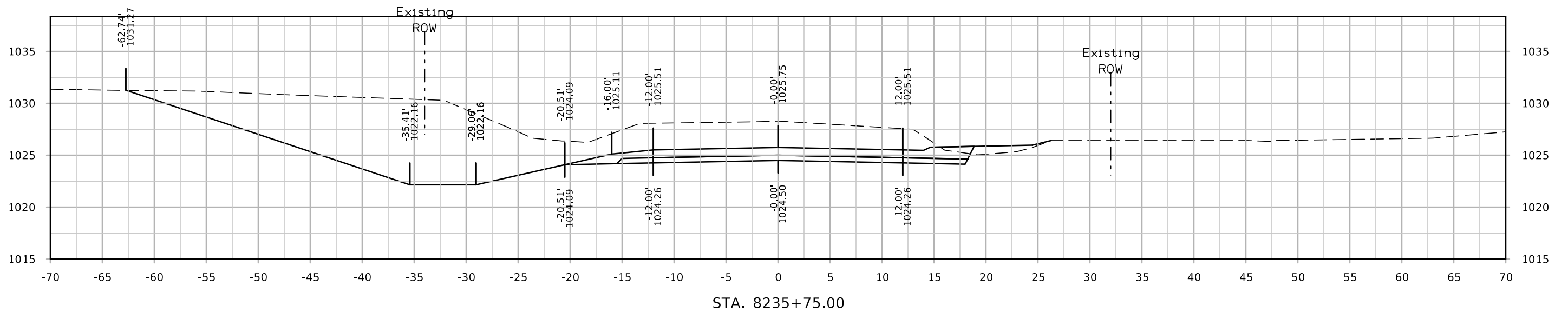
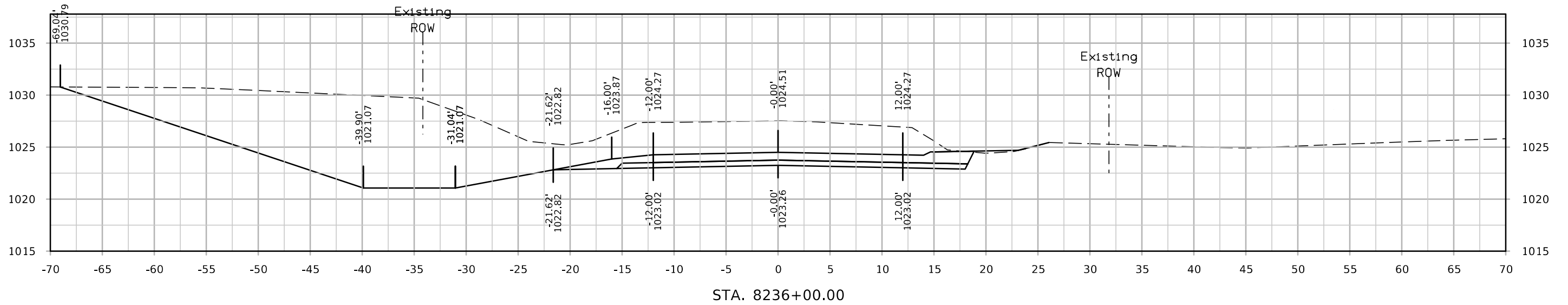
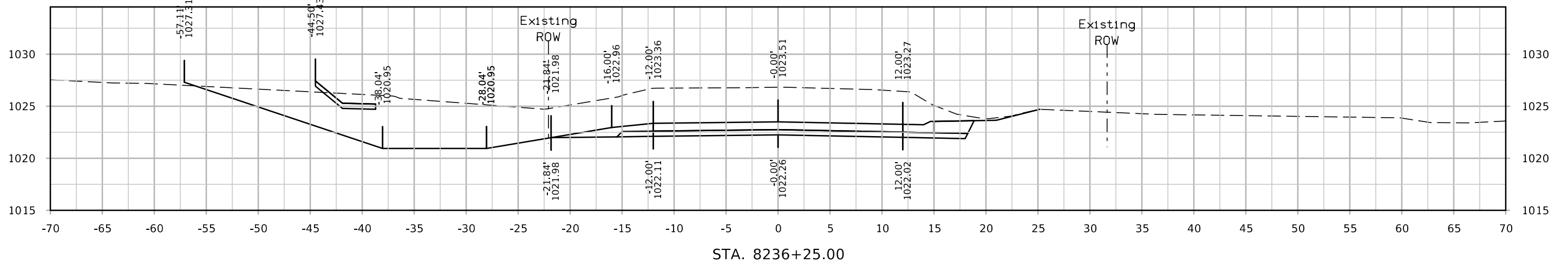
155th St



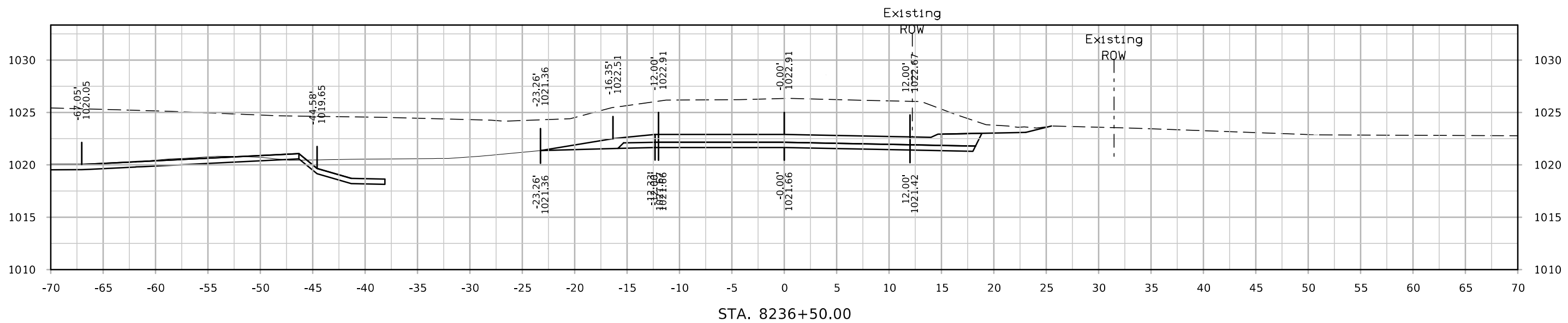
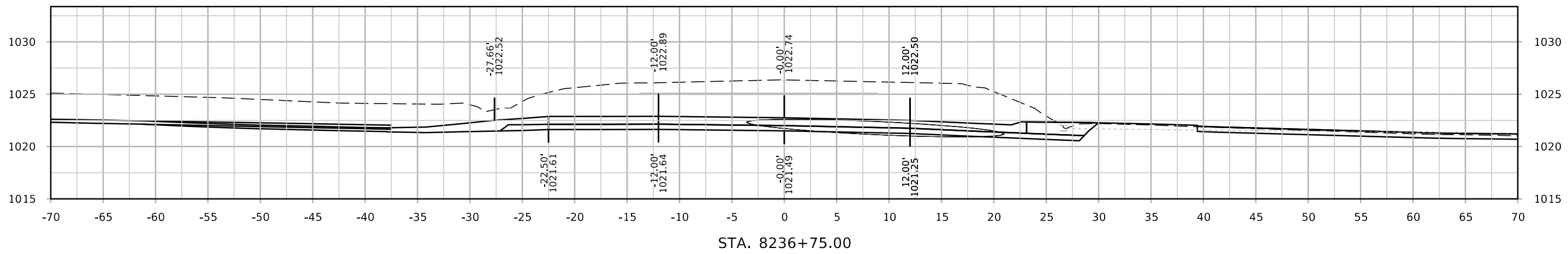
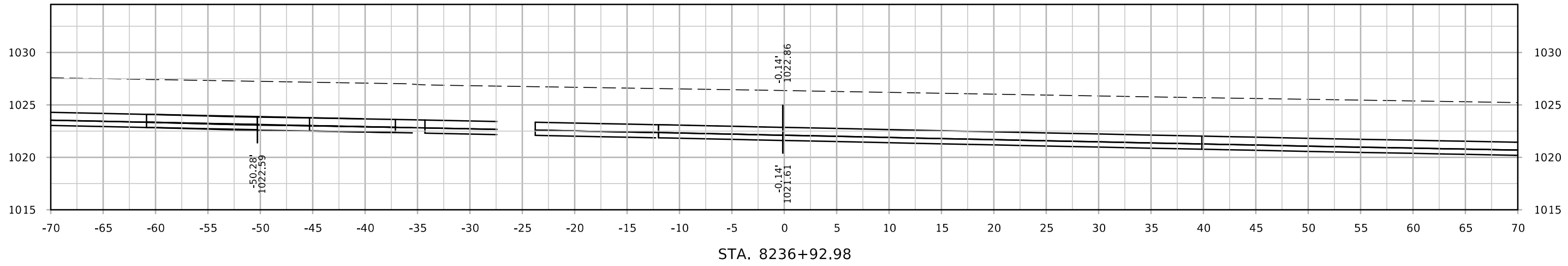
155th St

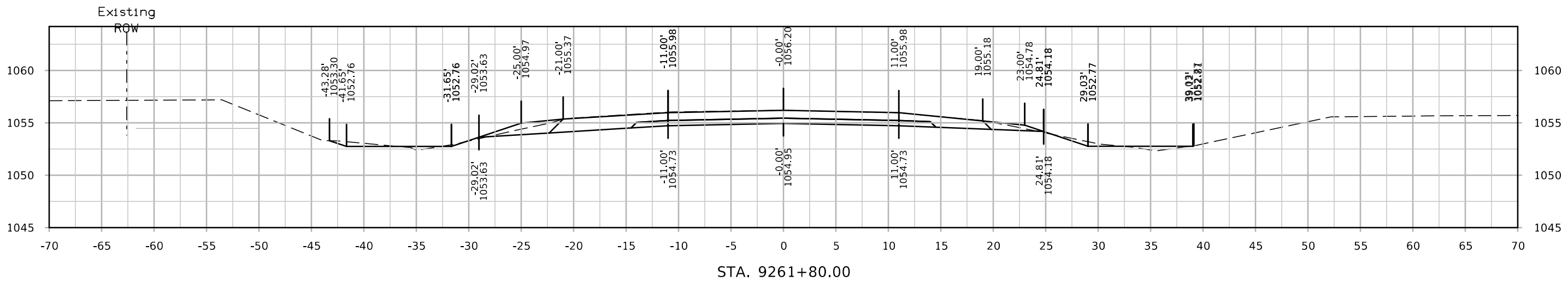
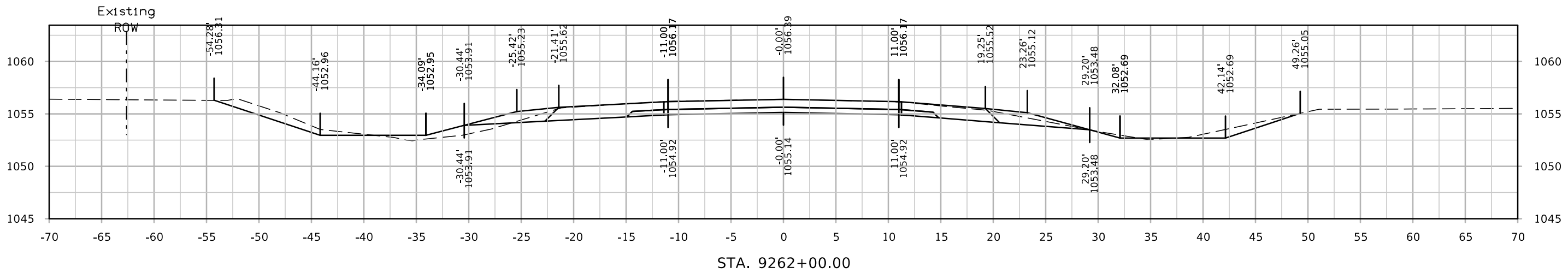
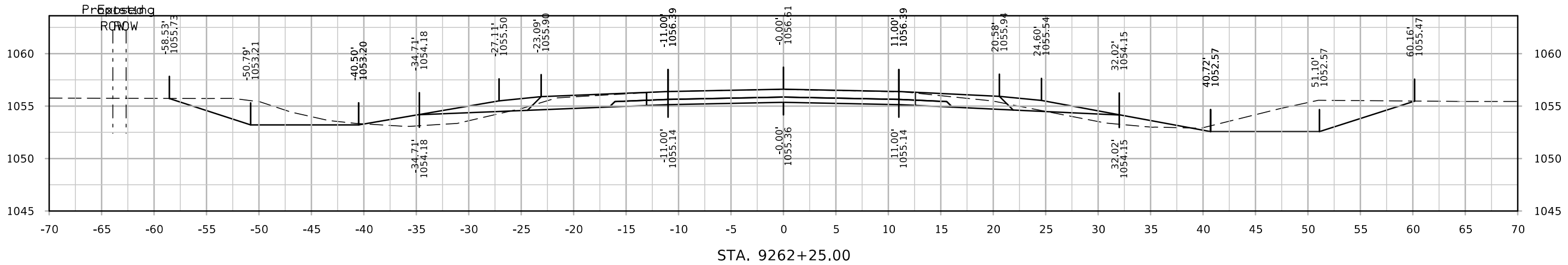


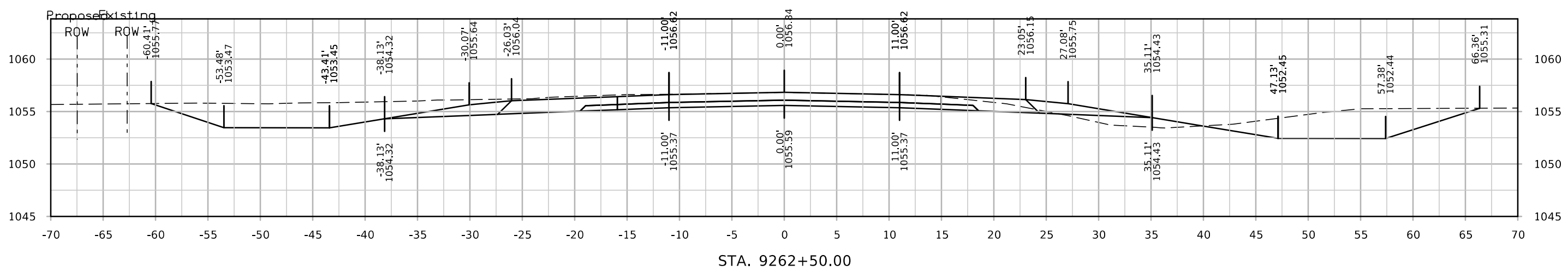
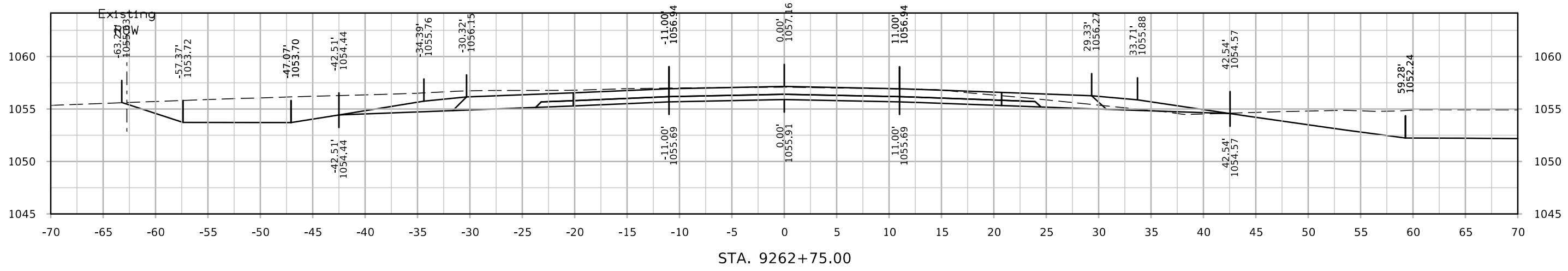
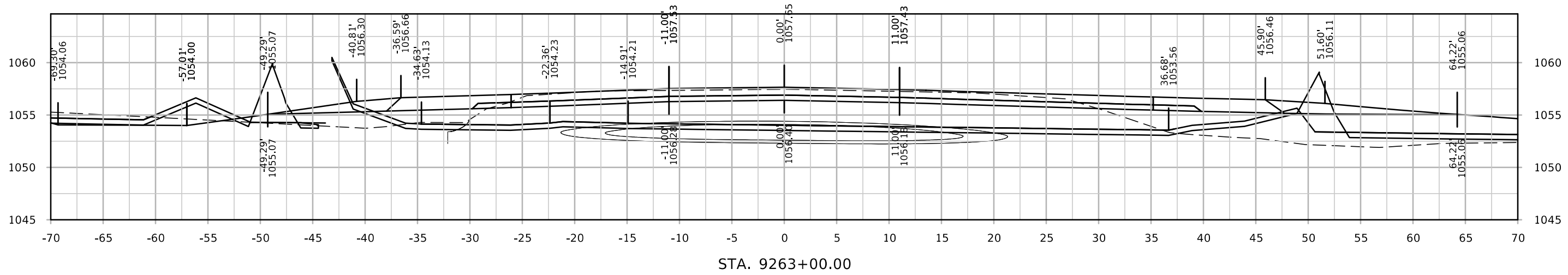
155th St

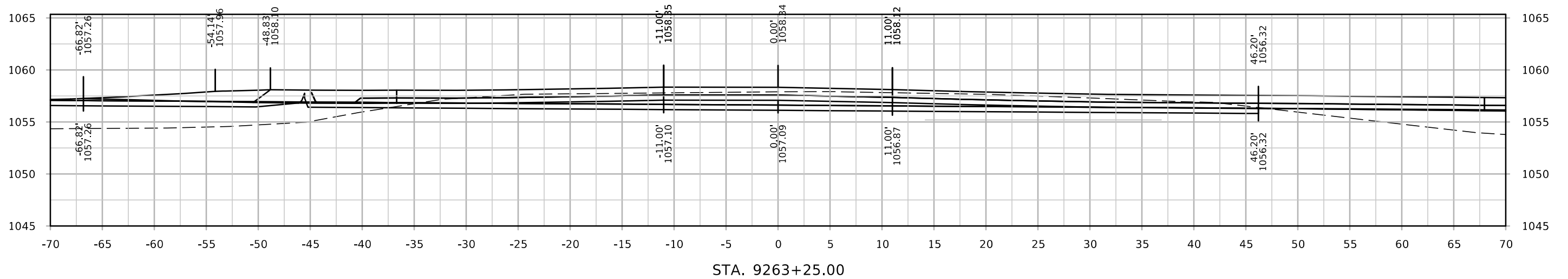
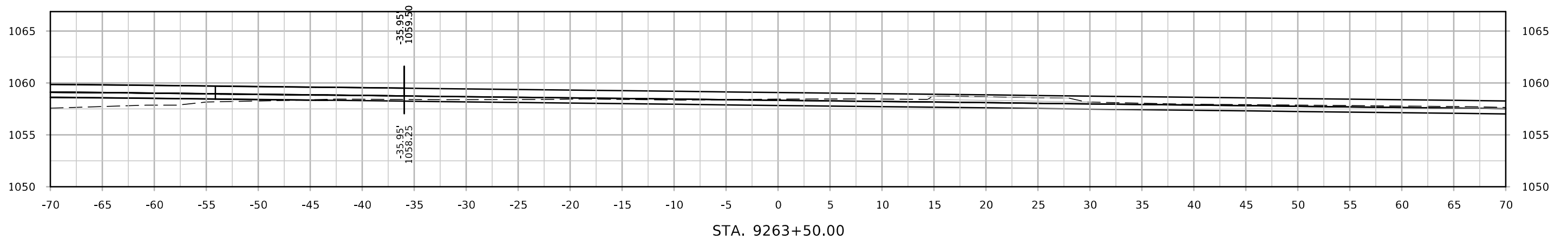
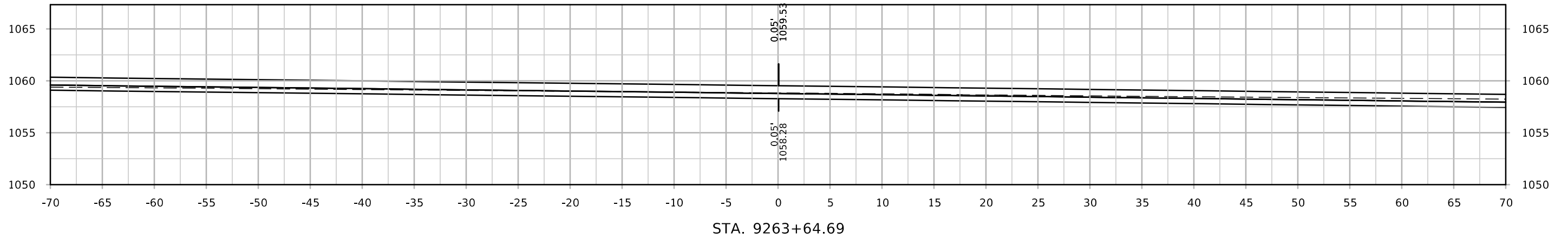


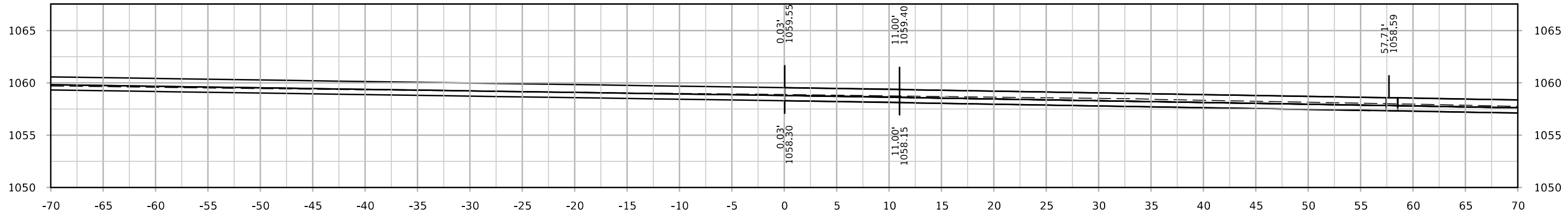
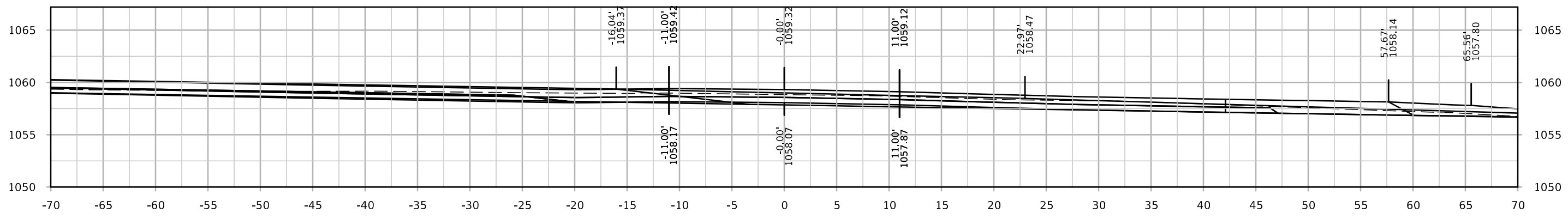
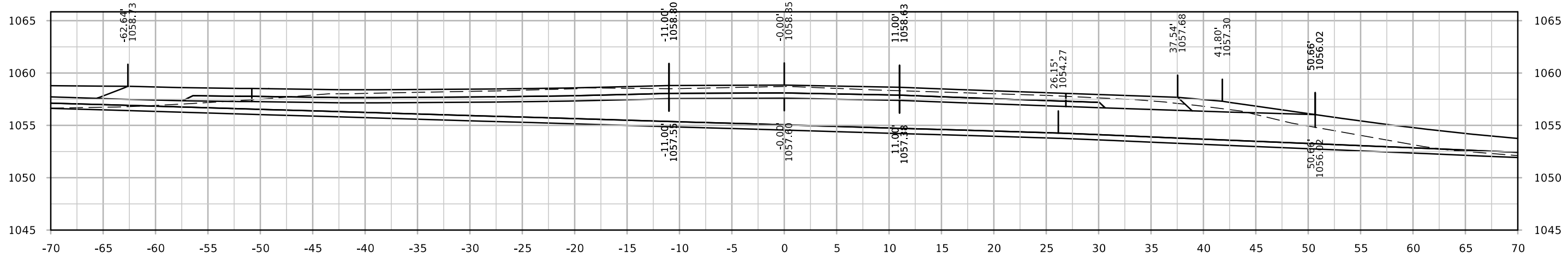
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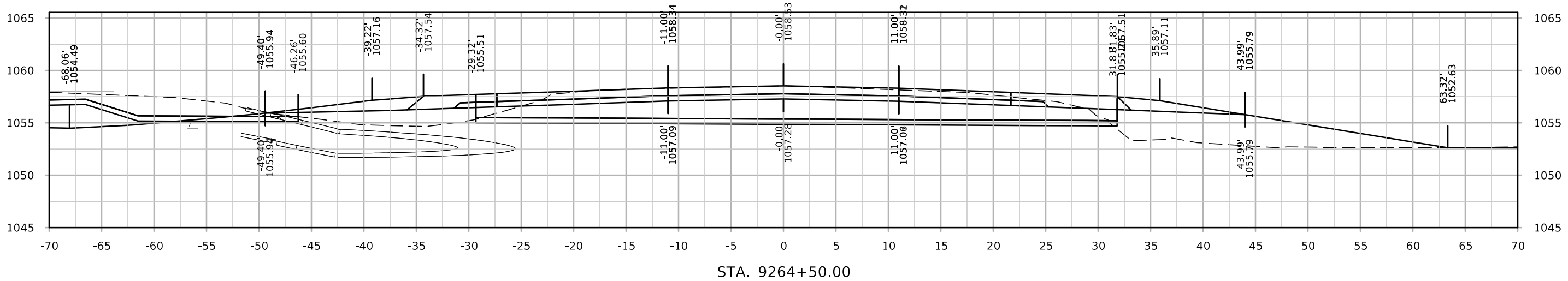
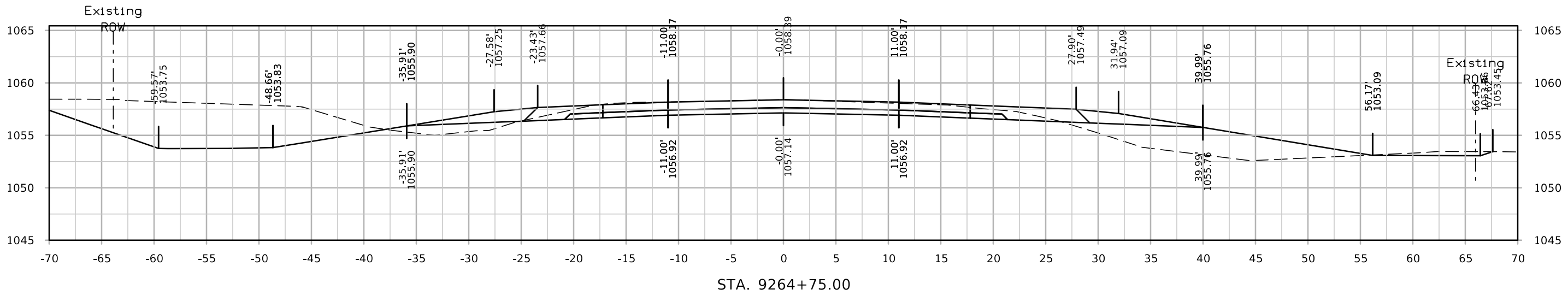
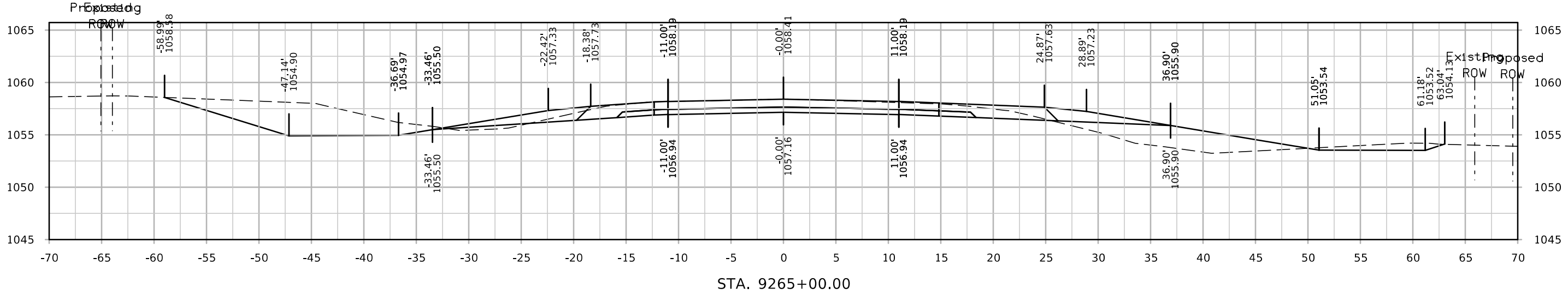


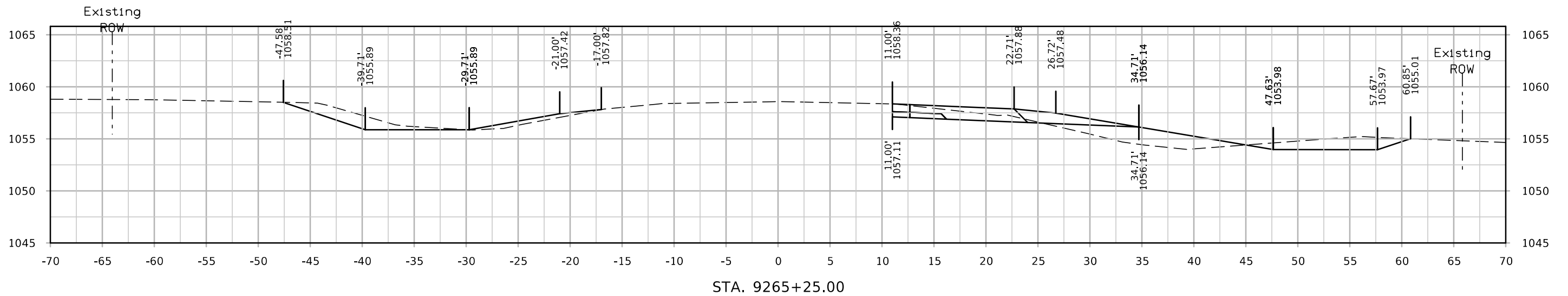
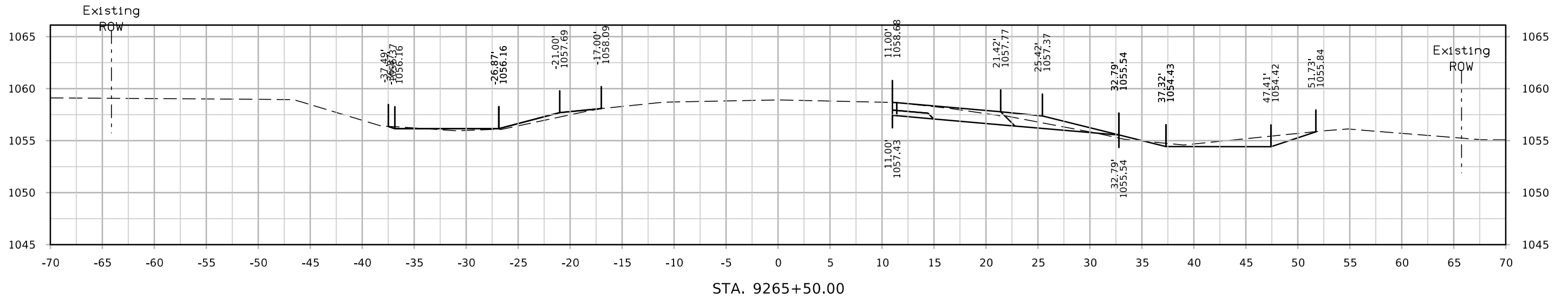
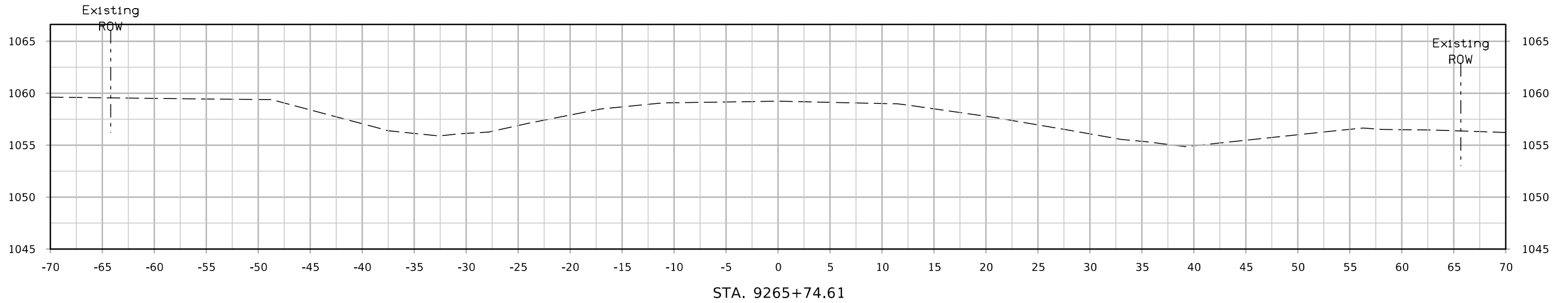




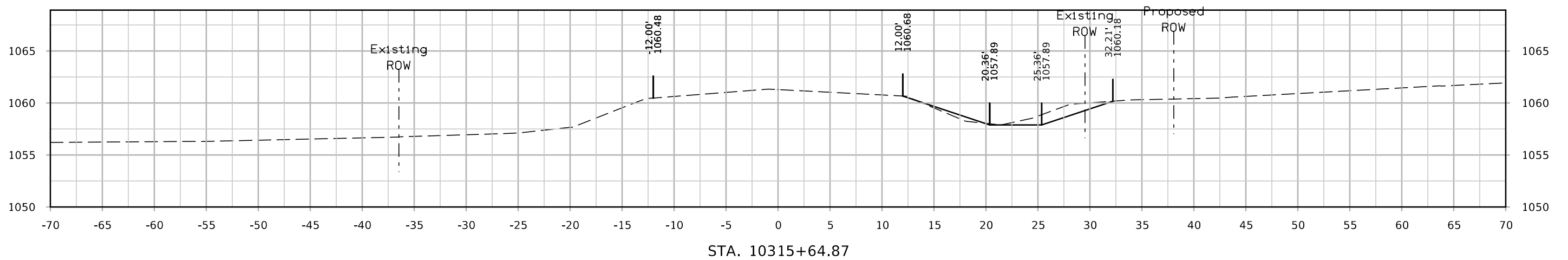
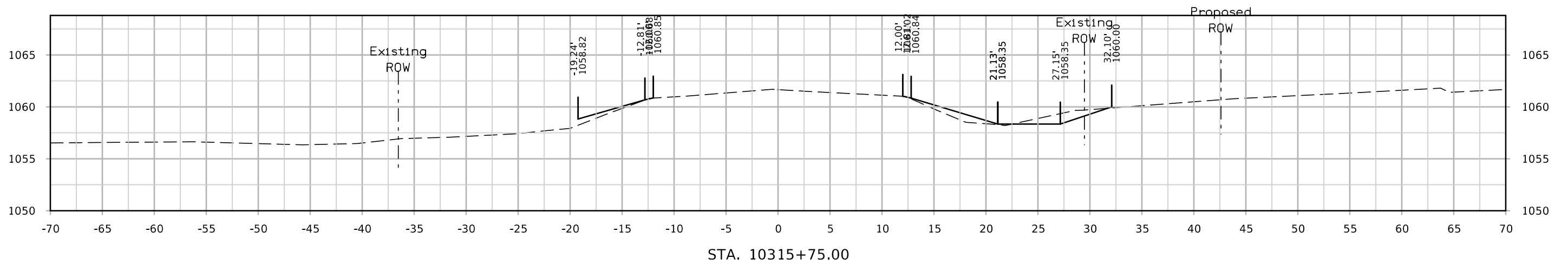
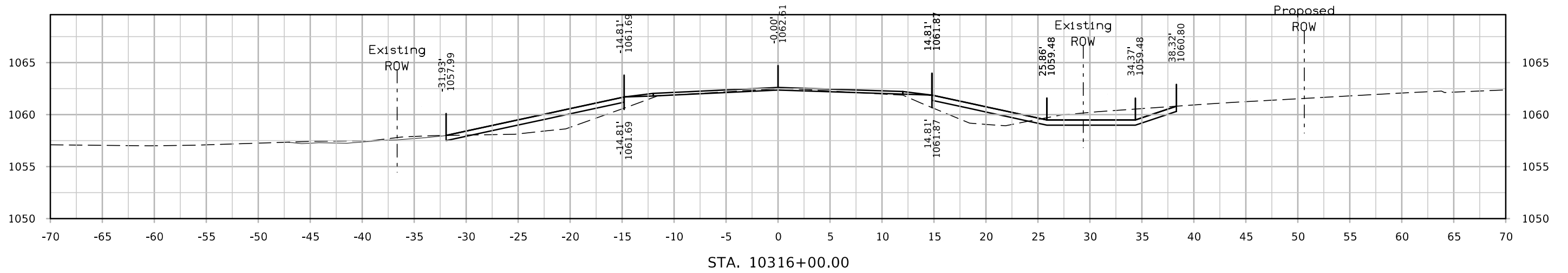


C64

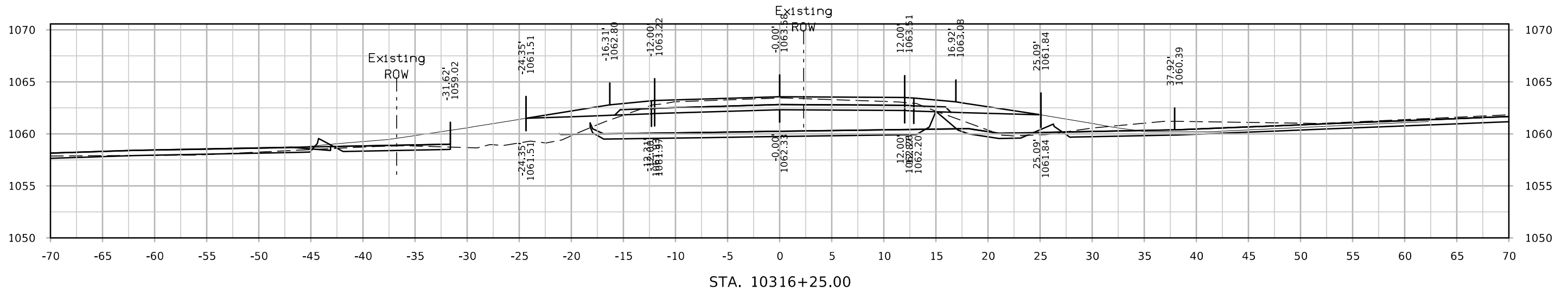
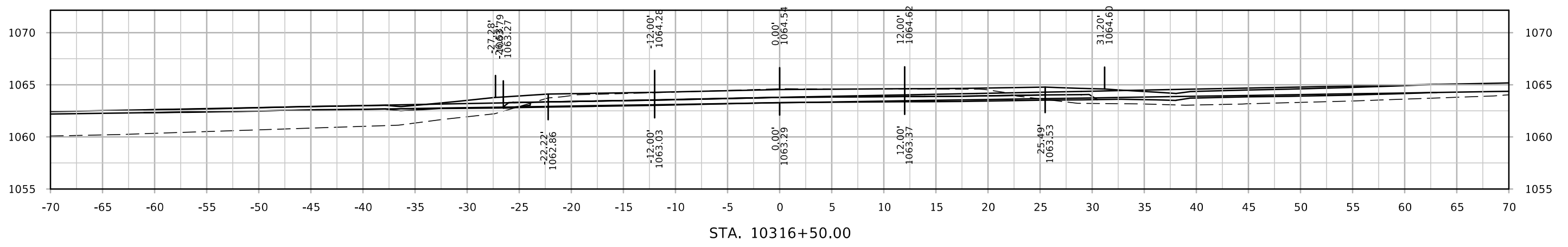
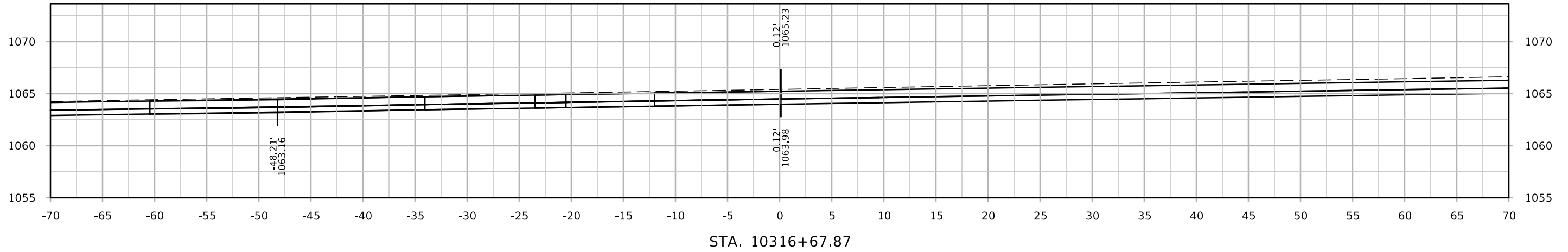




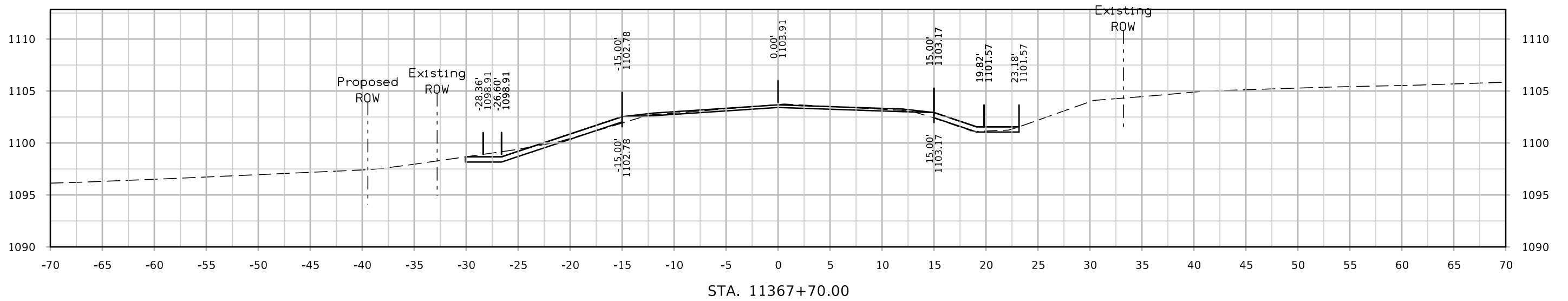
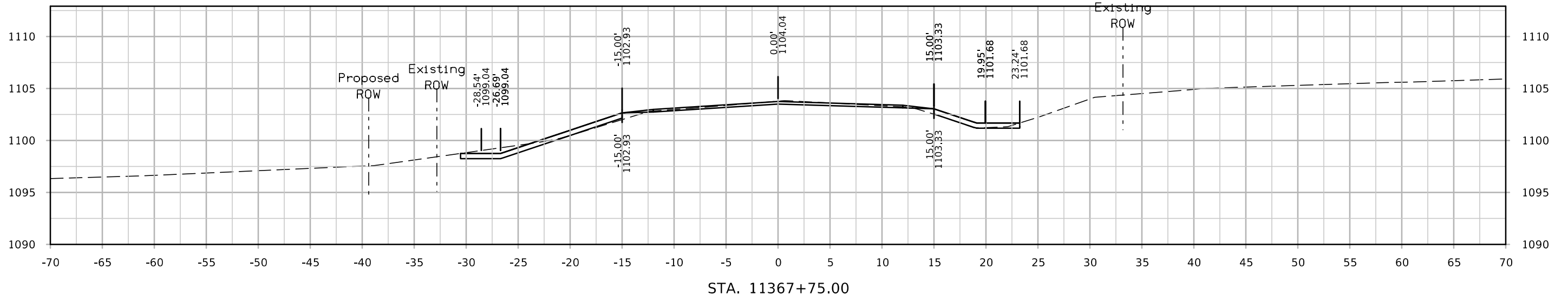
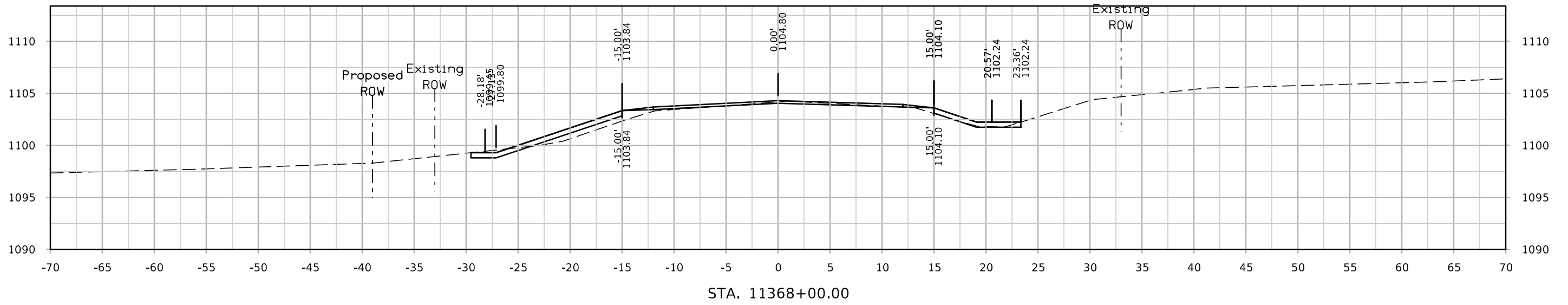
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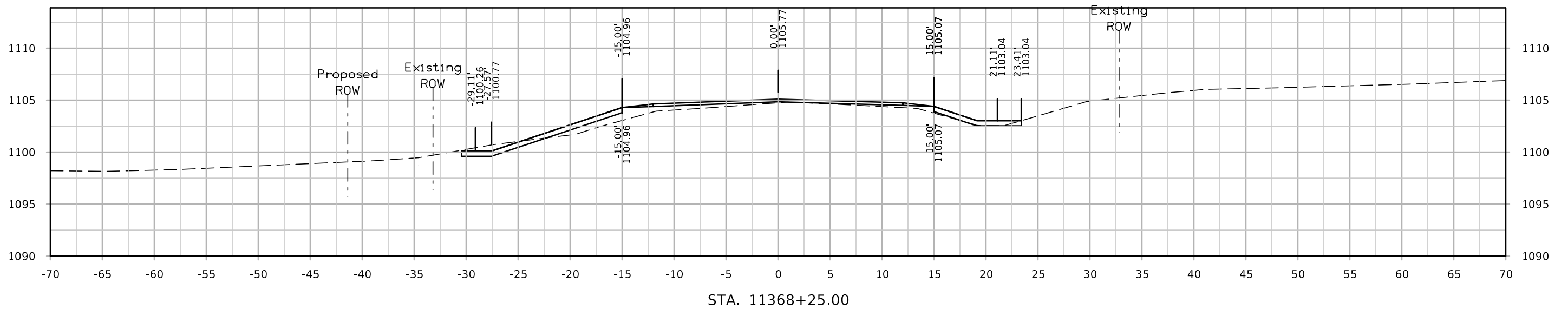
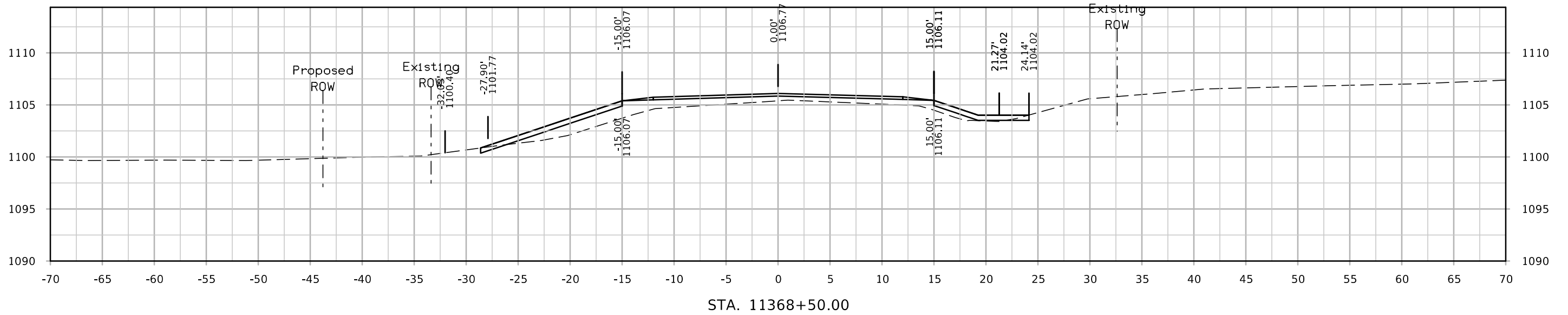
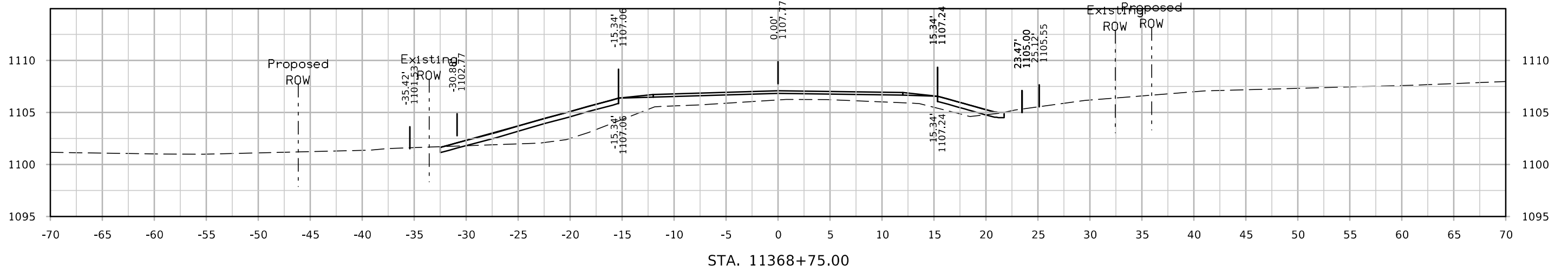
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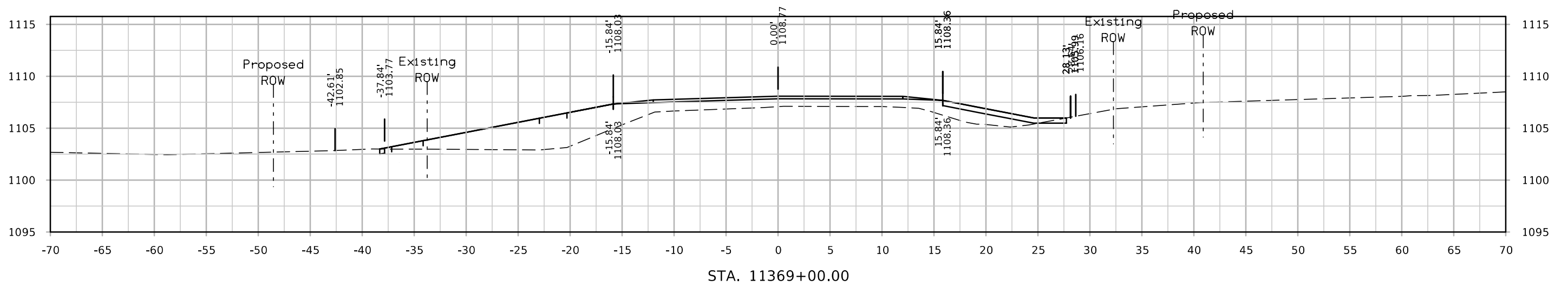
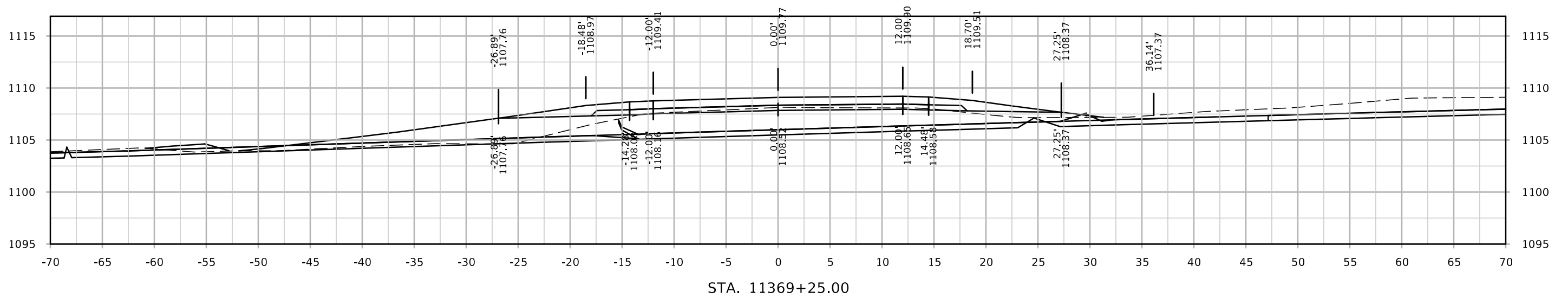
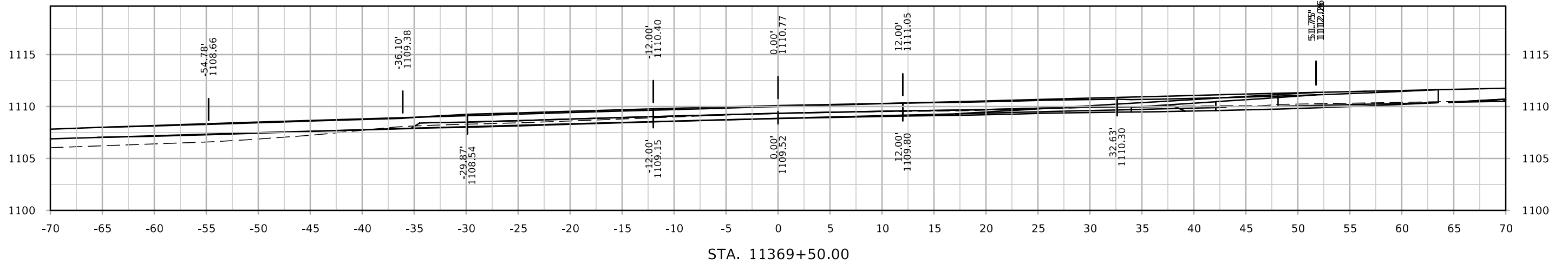
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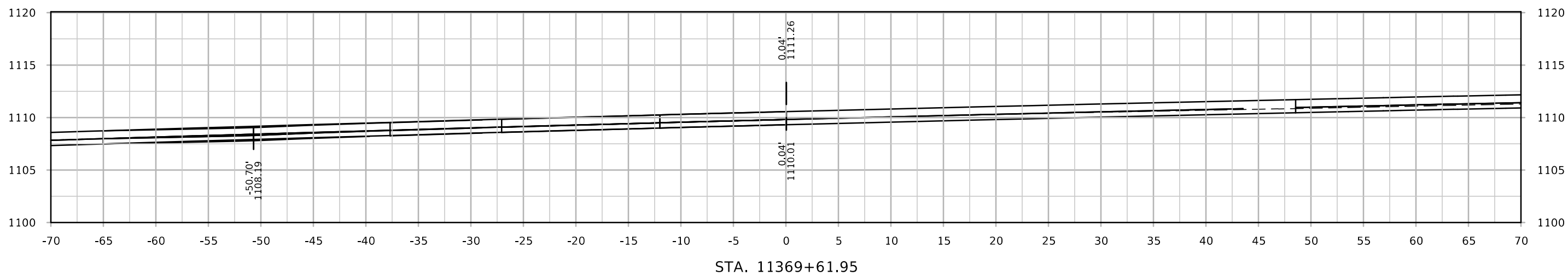
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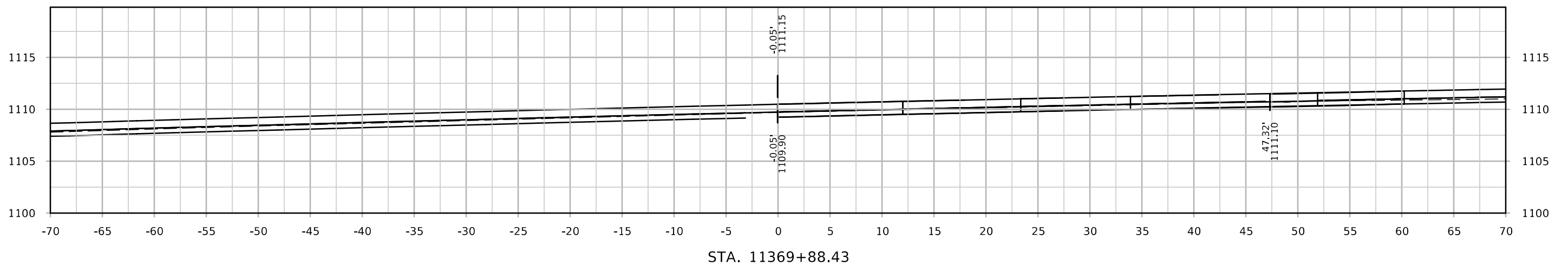
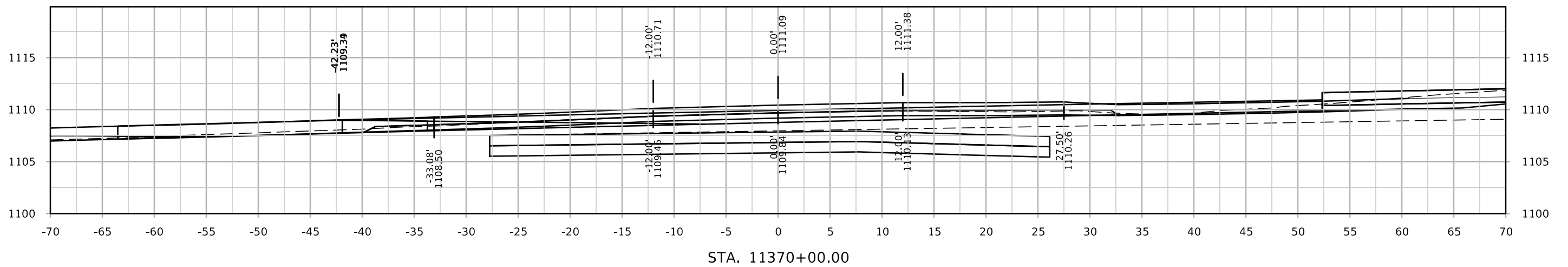
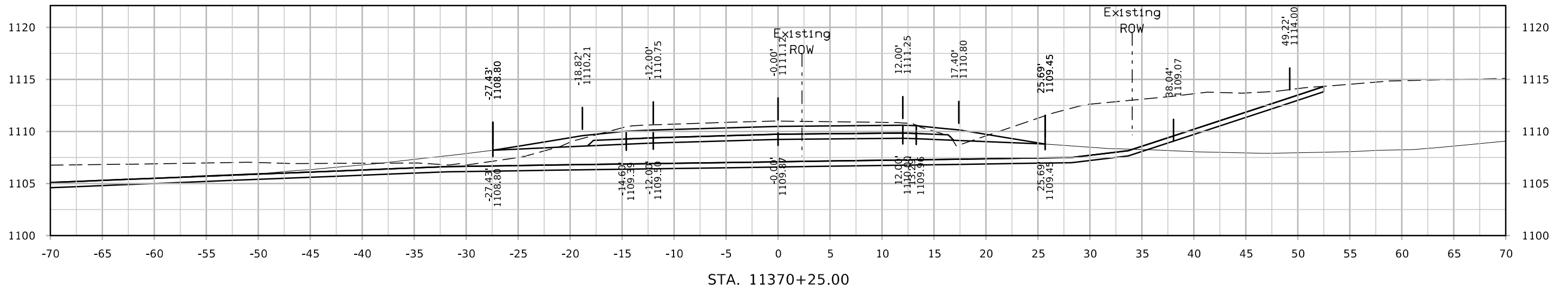
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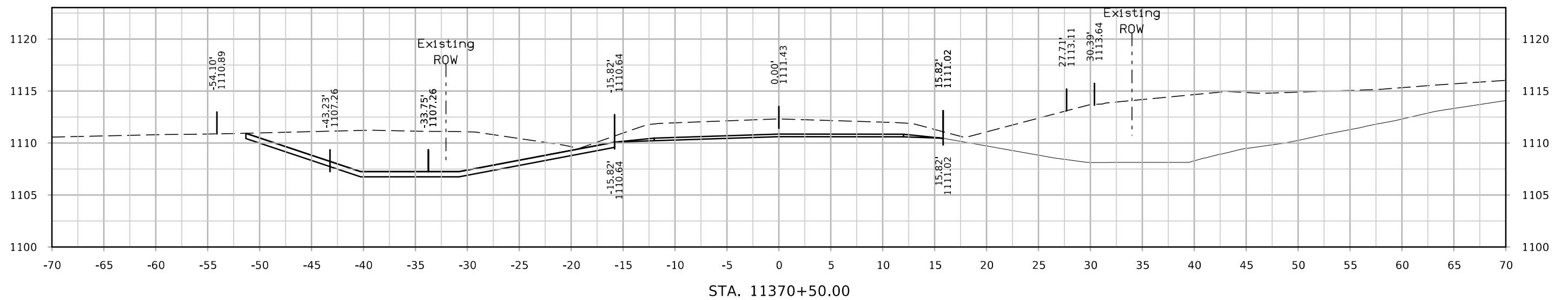
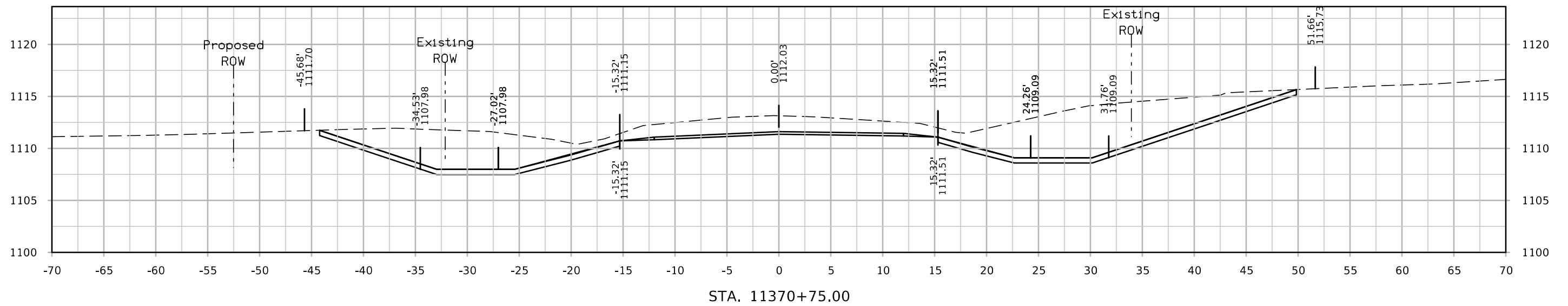
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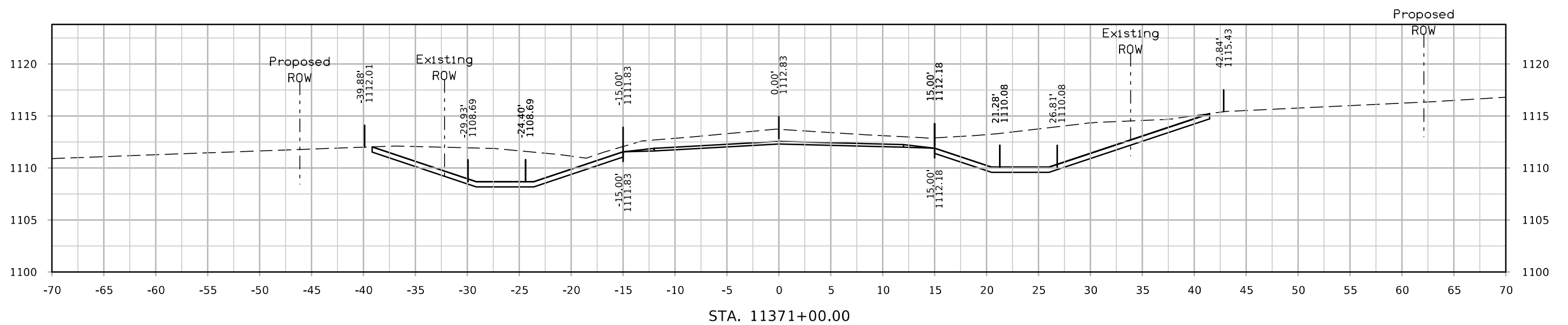
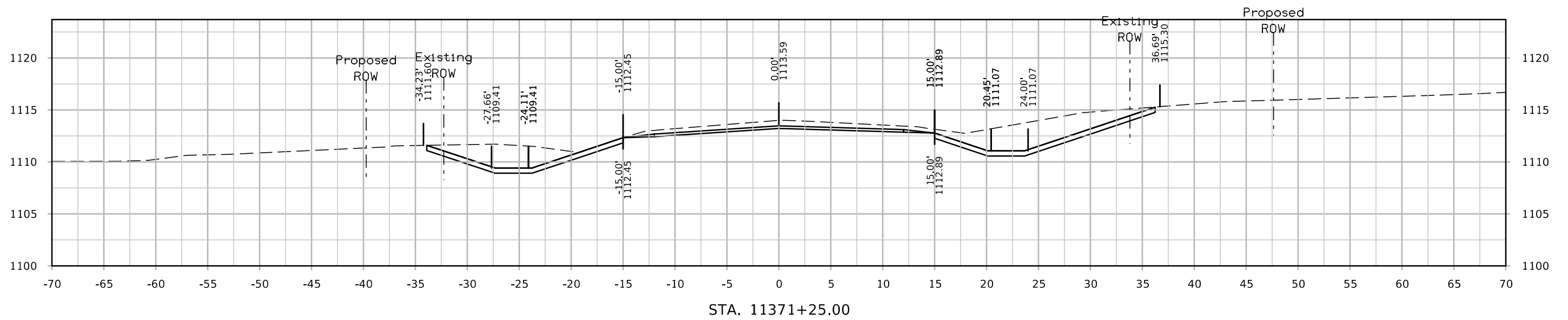
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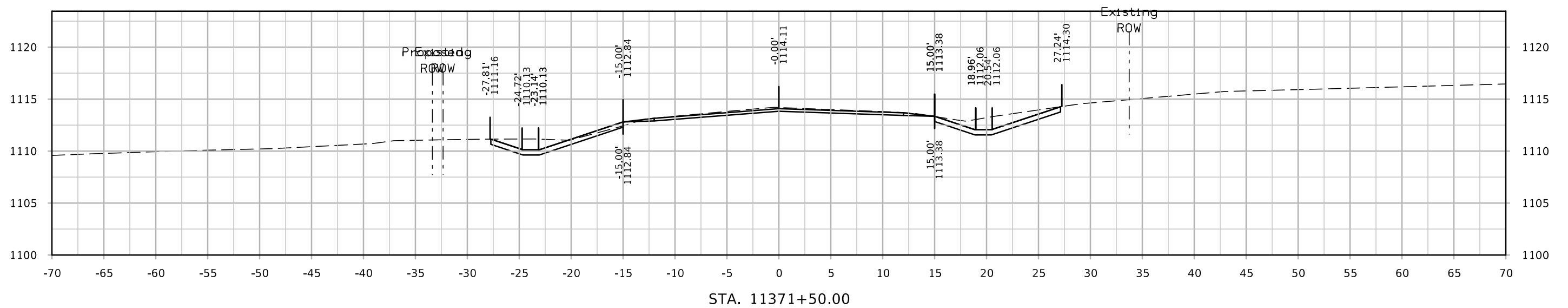
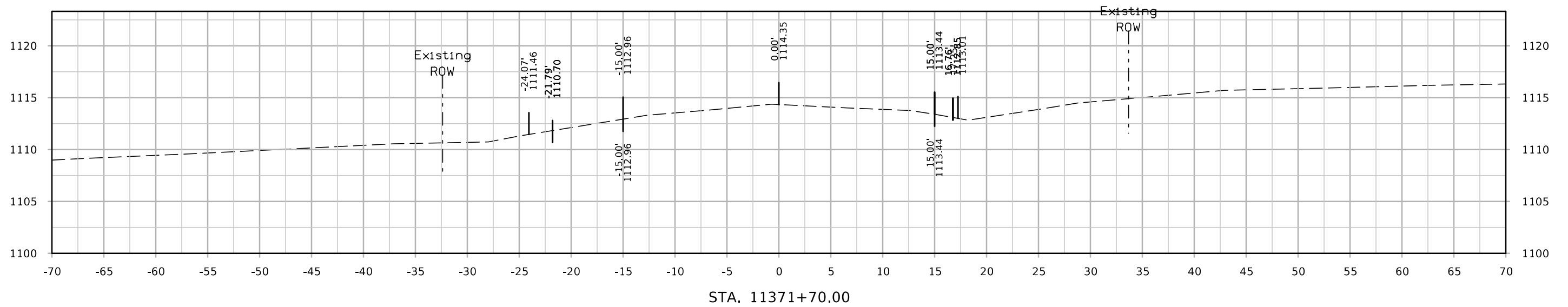
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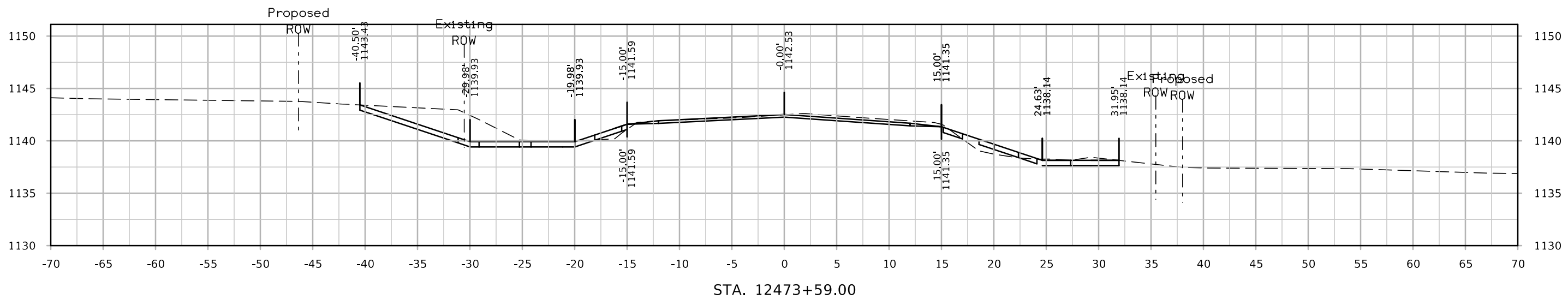
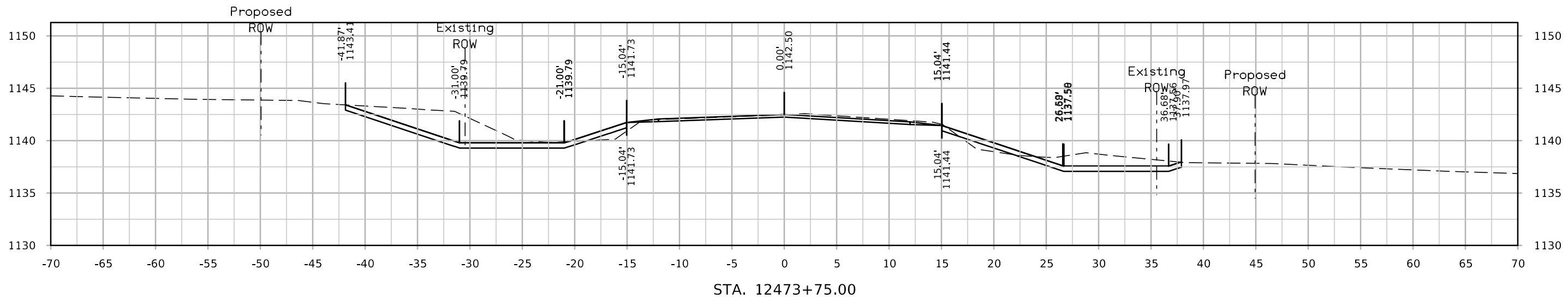
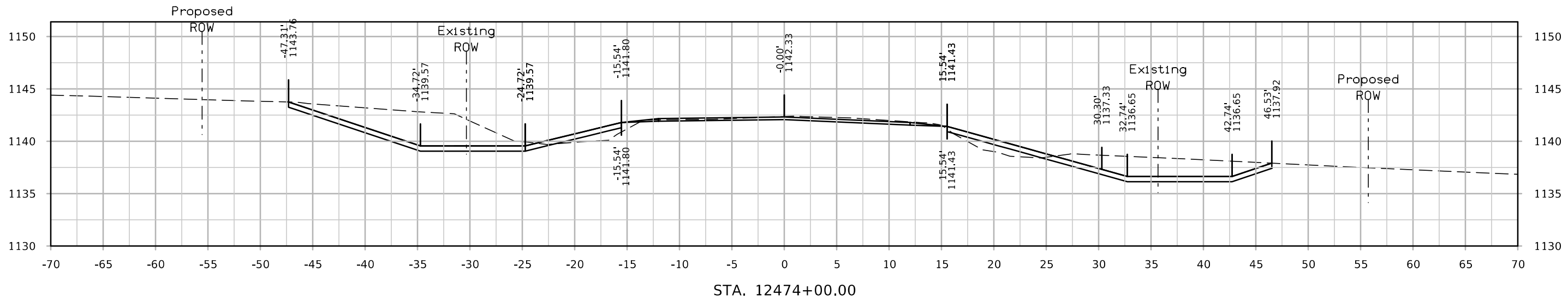
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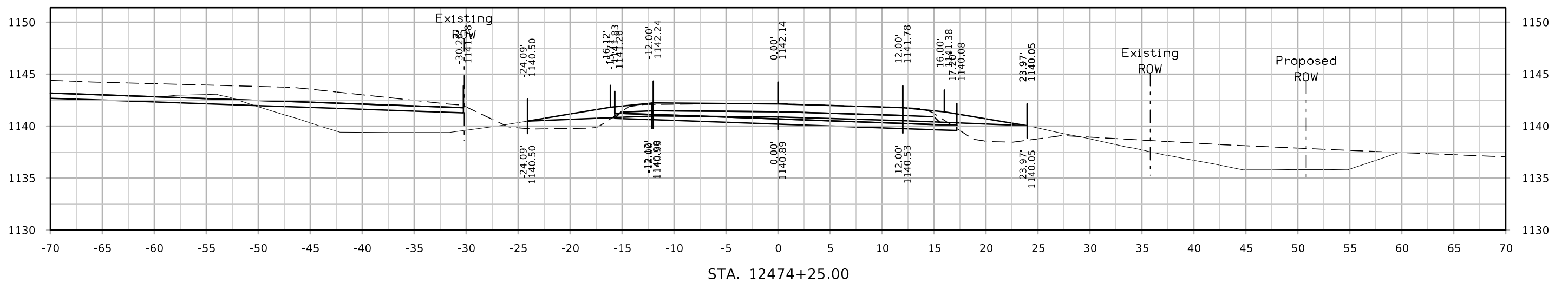
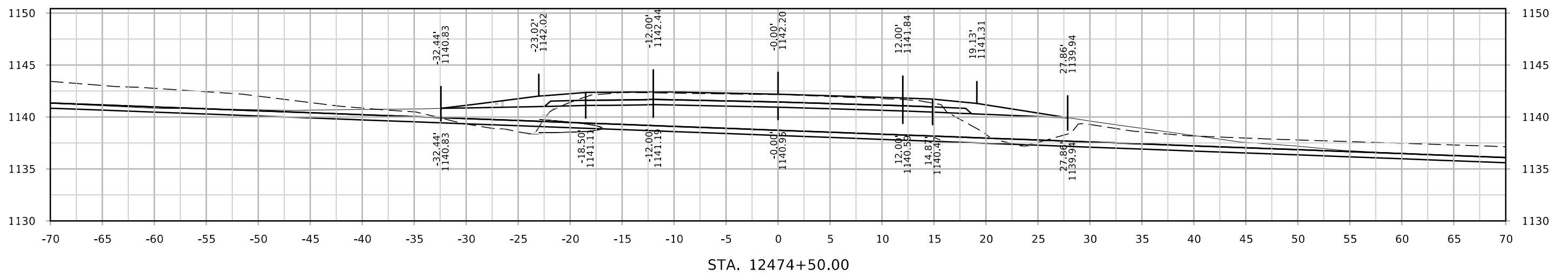
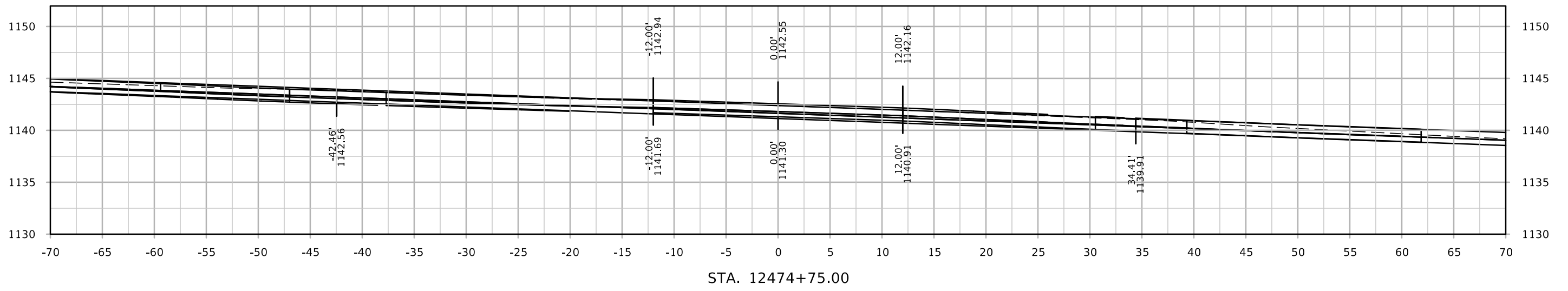
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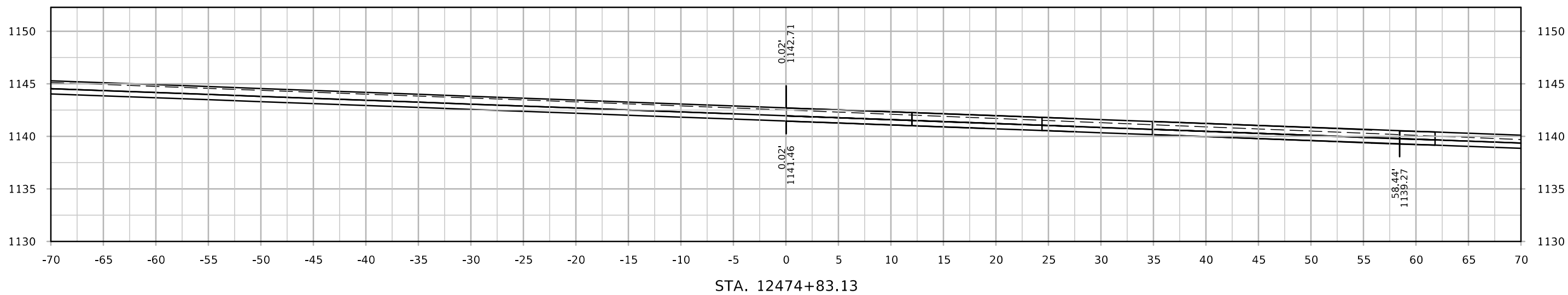
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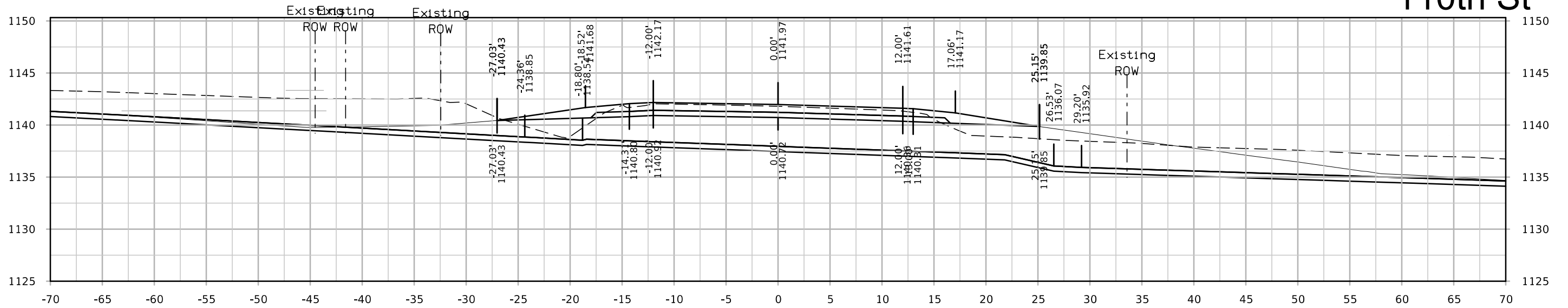
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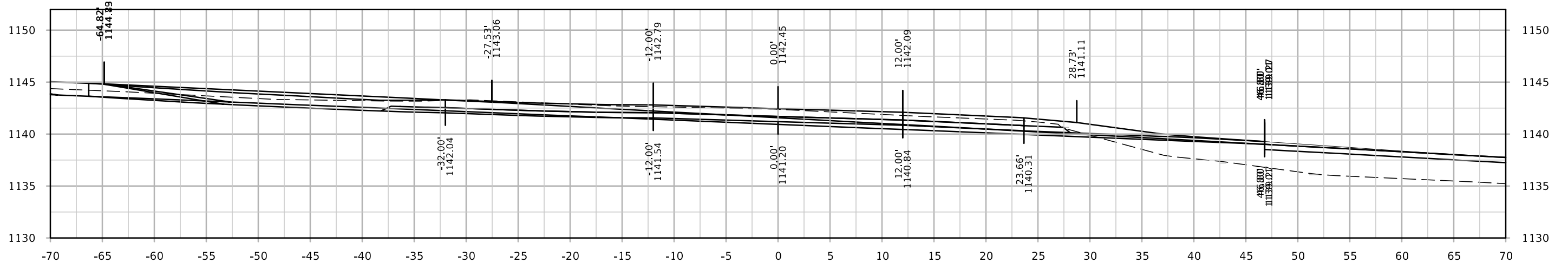
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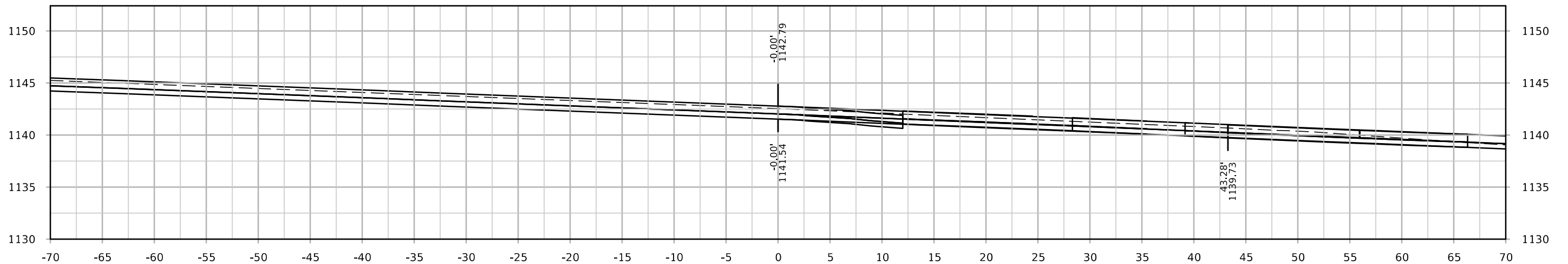
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STA. 12475+50.00

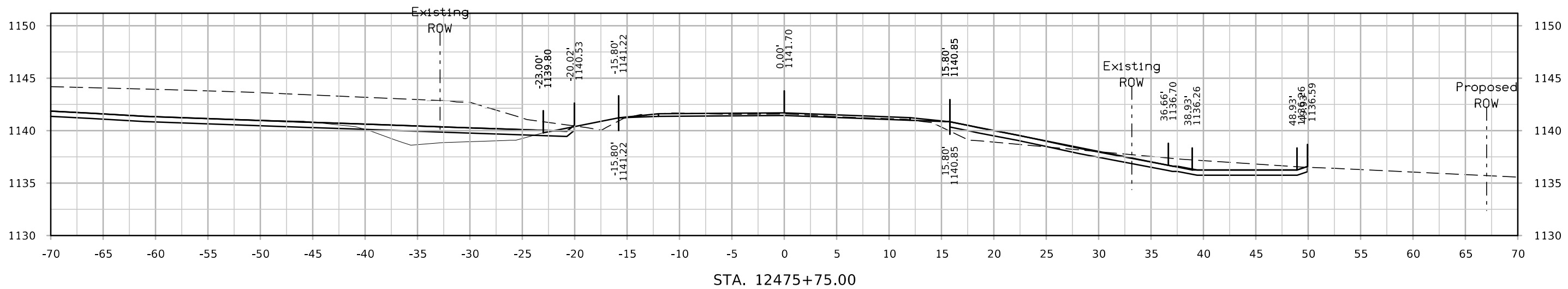
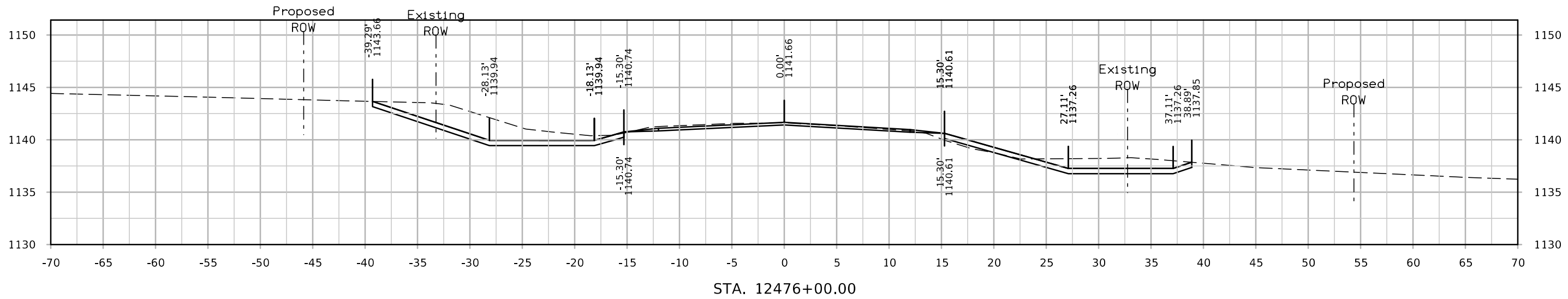
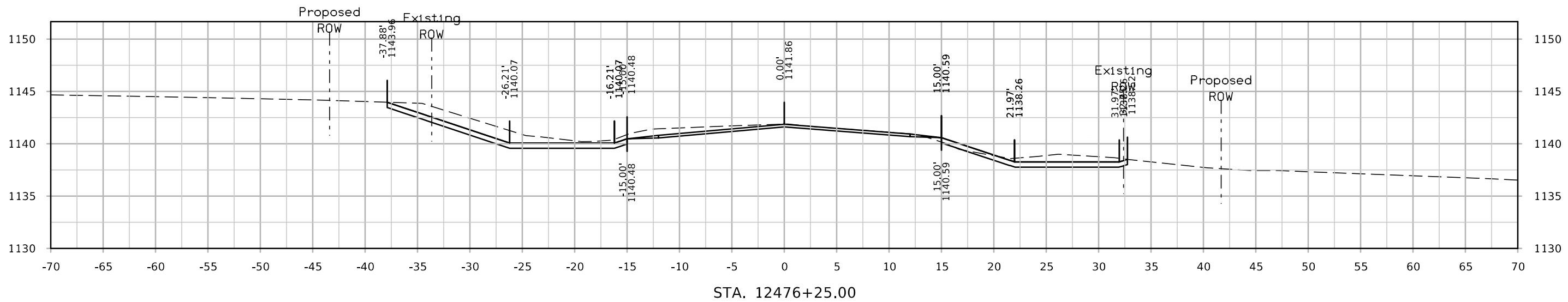


STA. 12475+25.00



STA. 12475+07.95

110th St



110th St

