LETTING DATE
December 15, 2026

PCC PAVEMENT - REPLACE
IMN-035-8(052)212--0E-98
Worth COUNTY

IOWA DOT

REVISIONS

TOTAL
95
PROJECT IDENTIFICATION NUMBER
22-98-035-010
PROJECT NUMBER
IMN-035-8(052)212--0E-98
R.O.W. PROJECT NUMBER

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM
Worth COUNTY
PCC PAVEMENT - REPLACE
SB WEIGH STATION 3.2 MI NORTH OF CO RD. A38

SCALES: As Noted

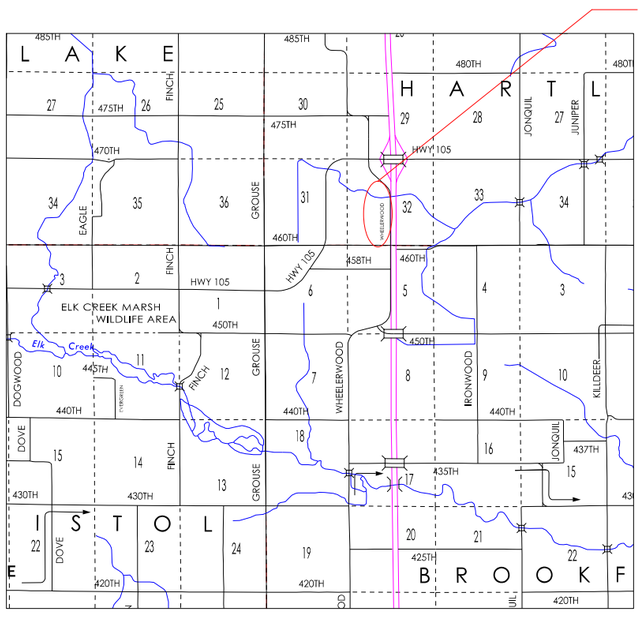
Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.13 of the Specifications.

NO MILEAGE SUMMARY

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

PROJECT LOCATION



INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets*	Title Sheets
A.1	Title Sheet
B Sheets	Typical Cross Sections
B.1 - 2	Typical Section
C Sheets	Quantities and General Information
C.1 - 3	Estimated Quantities
C.4 - 6	Tabulations
CS.1	Subdrain Tabulations
D Sheets*	Mainline Plan and Profile
D.1 - 4	Ramp Plan and Profile Information
G Sheets	Survey Sheets
G.1 - 4	Survey Datum, Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
L Sheets	Geometric, Staking, and Jointing Sheets
L.1, 3, 5, 7, 9	Geometric and Staking Details
L.2, 4, 6, 8, 10	Jointing Details
RC Sheets	Erosion Control Notes and Quantities
RC.1 - 2	PPP and Erosion Control Quantities
RR Sheets*	Erosion Control Plan
RR.1	Erosion Control Plan
REM Sheets*	Removal Sheets
REM.1 - 2	Removal Plan
S Sheets*	Sidewalk Sheets
S.1	Sidewalk Sheet
U Sheets*	500 Series, Mod. Stds. and Detail Sheets
U.1	Pavement Markings
U.2	Modified Details - Bollard and Existing Wheel Guard
U.3	Barrier Layout Detail
U.4	Pavement Header Detail
W Sheets	Mainline Cross Sections
W.1 - 39	Ramp Cross Sections
X Sheets	Sideroad Cross Sections
X.1 - 17	Loop Cross Sections

*Color Plan Sheets

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



INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Andy S. Floy	Primary Signature Block

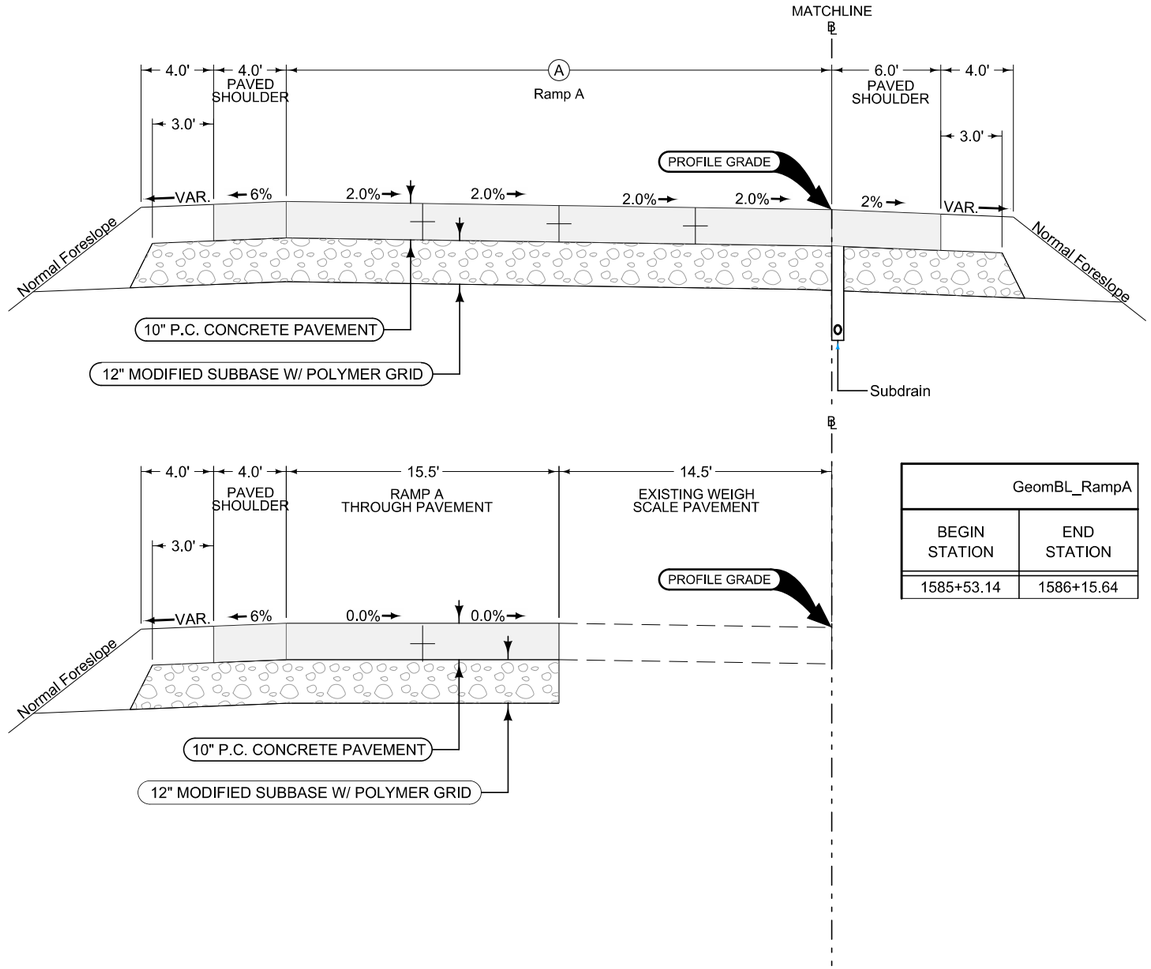
LICENSED PROFESSIONAL ENGINEER
ANDY S. FLOY
22743
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Andy Floy — 11/3/2026
ANDY S. FLOY, P.E. — DATE
License Number: 22743
My license renewal date is DECEMBER 31, 2026
Pages or sheets covered by this seal:
ALL SHEETS EXCEPT SHEET CS.1

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER A.1

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC



GeomBL_RampA		
BEGIN STATION	END STATION	(A) Feet
1576+41.86	1582+91.10	16.0'
1582+91.10	1584+18.48	16'-30'
1584+18.48	1585+53.14	30'
1586+15.64	1587+32.34	30'
1587+32.34	1589+98.67	30'-16'
1589+98.67	1593+75.00	16'
1593+75.00	1594+35.00	16'-12'

GeomBL_RampA	
BEGIN STATION	END STATION
1585+53.14	1586+15.64

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

Transvers joints are CD joints unless otherwise noted. Typical spacing is 15'-0" unless otherwise noted.

Longitudinal joints are L-2 joints unless otherwise noted. Typical spacing is 12'-0" unless otherwise noted.

Refer to D-Sheets and L-Sheets for additional location information and details.

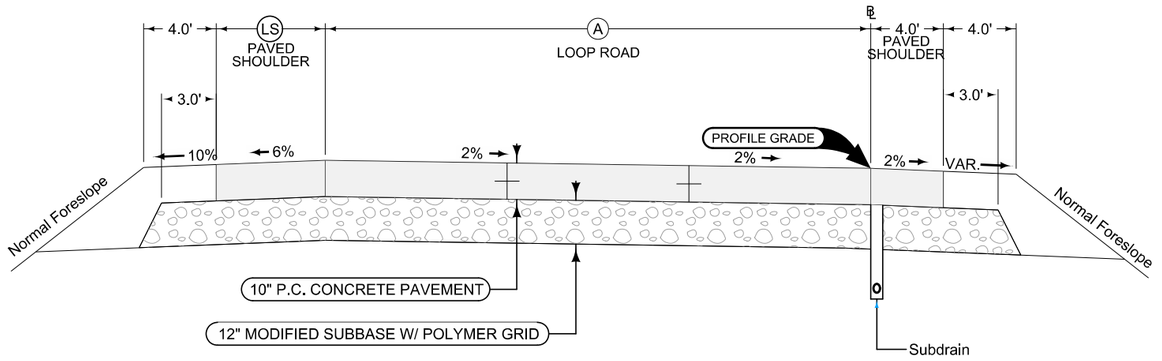
See Tab 100-24 for pavement quantities.
See Tab 112-9 for Shoulder quantities.
See CS-Sheets for subdrain locations.

ENTRANCE & EXIT RAMP TYPICAL SECTION

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER B.1	

9:46:37 AM 9/18/2026 gak1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9803501022\Design\CADD_Files\Sheet_Files\SHT_B_98035052Z02.dgn

SR_Loop Shoulder Width		
BEGIN STATION	END STATION	(LS) Feet
100+00.00	101+29.84	6.0'
106+23.77	107+45.00	4'



SR_Loop Lane Width		
BEGIN STATION	END STATION	(A) Feet
100+00.00	101+29.84	30.0'
106+23.77	107+45.00	30'-16'

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

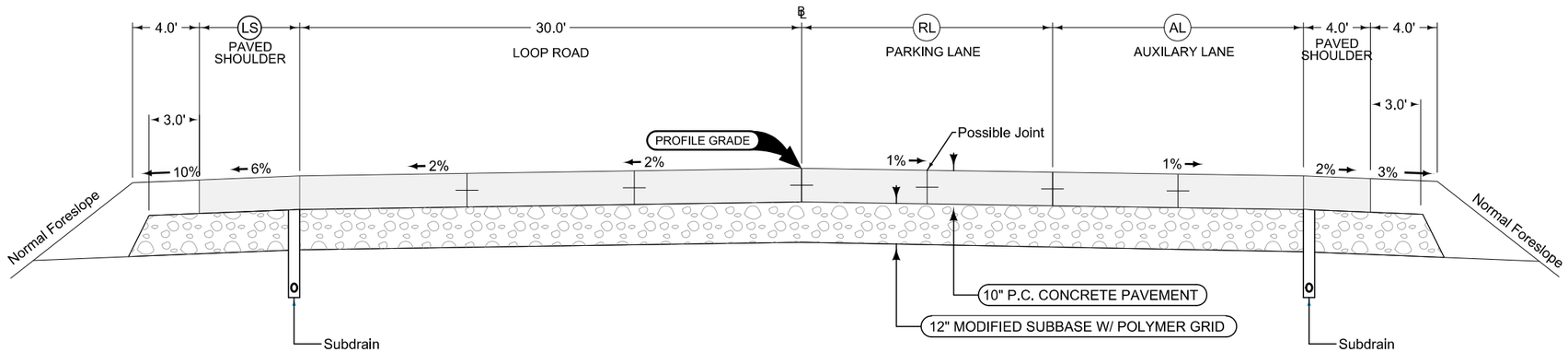
Transvers joints are CD joints unless otherwise noted. Typical spacing is 15'-0" unless otherwise noted.

Longitudinal joints are L-2 joints unless otherwise noted. Typical spacing is 12'-0" unless otherwise noted.

Refer to D-Sheets and L-Sheets for additional location information and details.

See Tab 100-24 for pavement quantities.
See Tab 112-9 for Shoulder quantities.
See CS-Sheets for subdrain locations.

TRUCK LOOP ROAD
TYPICAL SECTION
STA. 100-00.00 TO 101+29.70
STA. 106+23.77 TO 108+24.44



SR_Loop Shoulder Width		
BEGIN STATION	END STATION	(LS) Feet
101+29.84	103+17.78	6.0'
103+17.78	103+77.78	6'-12'
103+77.78	104+95.33	12.0'
104+95.33	105+35.05	12'-4'
105+35.05	106+23.77	4'

SR_Loop Lane Width			
BEGIN STATION	END STATION	(RL) Feet	(AL) Feet
101+29.84	101+66.34	0'-13'	0'
101+66.34	102+42.87	13'	0'-35'
102+42.87	102+81.32	13'	35'
102+81.32	103+79.02	13'	35'-0'
103+79.02	104+95.33	13'	0'
104+95.33	106+23.77	13'-2'	0'

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

Transvers joints are CD joints unless otherwise noted. Typical spacing is 15'-0" unless otherwise noted.

Longitudinal joints are L-2 joints unless otherwise noted. Typical spacing is 12'-0" unless otherwise noted.

Refer to D-Sheets and L-Sheets for additional location information and details.

See Tab 100-24 for pavement quantities.
See Tab 112-9 for Shoulder quantities.
See CS-Sheets for subdrain locations.

TRUCK LOOP ROAD
TYPICAL SECTION
STA. 101+29.70 TO 106+23.77

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2101-0850002	CLEARING AND GRUBBING	UNIT	30.4	Refer to Tab 110-17 and REM Sheets for additional information. All wood material generated as a result of Clearing and Grubbing must be disposed of according to Iowa Department of Agriculture and Land Stewardship Emerald Ash Borer Quarantine Order. For more information see www.iowatreepests.com.
2	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	5,242	Item is for removal of excess material on the project.
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	1,536	Refer to Tab. 103-10. Quantity will be computed on the basis of a uniform 12 inch cut. Sufficient field measurements will be taken to assure reasonable conformity with the required depth of cut. Respread the stockpiled topsoil to an 8 inch depth across the grading area.
4	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	12,343	Refer to Tab 100-24 and the B-Sheets for additional information.
5	2115-0100000	MODIFIED SUBBASE	CY	4,114	
6	2122-5190010	PAVED SHOULDER, P.C. CONCRETE, 10 IN.	SY	2,899	Refer to Tab 112-9 and the B-Sheets for additional information.
7	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	51.2	Refer to Tab 112-9 and the B-Sheets for additional information.
8	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN.	SY	7,881	Refer to Tab 100-24, B-sheets, and L-sheets for additional information.
9	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	9,221	
10	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	5,911	
11	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	3,267	Refer to CS-sheets.
12	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	23	
13	2510-6745850	REMOVAL OF PAVEMENT	SY	9,119	Refer to Tab 110-1 and the REM-sheets for additional information.
14	2511-6745900	REMOVAL OF SIDEWALK	SY	26	Refer to Tab 110-5 and the REM-sheets for additional information.
15	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	8.5	Refer to Tab 113-1a and the S-sheets for additional information.
16	2513-0001020	CONCRETE BARRIER, BA-102	LF	12	Refer to Tab 108-18b and the Barrier Detail on Sheet U.3 for additional information.
17	2513-0001025	CONCRETE BARRIER, BA-102 AND FOOTING	LF	37	
18	2513-0001105	CONCRETE BARRIER, BA-105 AND FOOTING	EACH	1	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
19	2519-3760000	ENTRANCE BOLLARD	EACH	20	Refer to sheet L.9 for locations and sheet U.2 for details. Method of measurement shall be per Each bollard installed. Basis of payment shall be per Each bollard and shall include excavation, footing, bollard, concrete, and sleeve.
20	2520-3350015	FIELD OFFICE	EACH	1	
21	2525-0000200	LOOP DETECTORS (ADDITION OR REPLACEMENT TO AN EXISTING TRAFFIC SIGNAL SYSTEM)	EACH	1	Replace existing loop detector. Reconnect new loop detector to existing wiring inside scale building. Method of measurement shall be Each loop detector replaced. Basis of payment shall be by Each loop detector replaced.
22	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	64.8	Refer to Tab 108-22 and the U-sheets for locations and additional information.
23	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	64.8	
24	2528-2518000	SAFETY CLOSURE	EACH	2	Refer to Tab 108-13a and the J-sheets for locations.
25	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on Sheet J.1
26	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0	See Proposal.
27	2533-4980005	MOBILIZATION	LS	1	
28	2551-0000230	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	1	Use the TL-2 Smart Cushion. Offset Smart Cushion relative to the concrete barrier as shown in the details provided by the manufacturer. Following instructions from the manufacturer, do not attach Smart Cushion to the concrete barrier. The reinforced concrete pad required to anchor the Smart Cushion is incidental to the Permanent Crash Cushion, Severe Use (SU) bid item.
29	2599-9999010	('LUMP SUM' ITEM) PERMANENT CONCRETE BARRIER REMOVAL	LS	1	Remove 12 LF of existing permanent concrete barrier located north of the scale house as detailed on sheet U.3. Portion to be removed is the top 2 feet of the wheel guard adjacent to the scale. The Contractor will be paid the Lump Sum contract price for Permanent Concrete Barrier Removal. The payment for Permanent Concrete Barrier Removal shall be full compensation for furnishing all material, equipment and labor and for performance of all work necessary for proper removal.
30	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	200	Refer to Standard Road Plan EC-303
31	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	4,390	Refer to Tab. 100-19 and the RR-sheets for locations. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 12 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement
32	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	4,390	Refer to Tab. 100-19 and the RR-sheets for locations. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 12 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement
33	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	
34	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	

111-25
Modified

INDEX OF TABULATIONS

Tabulation	Tabulation Title	Sheet No.
105-04	STANDARD DETAILS	C.4
100-27	PROPOSED POSTED SPEED LIMIT	C.5
110-01	REMOVAL OF PAVEMENT	C.5
110-05	SIDEWALK REMOVAL	C.5
108-13A	SAFETY CLOSURES	C.5
108-22	PAVEMENT MARKING LINE TYPES	C.5
113-1a	SIDEWALKS	C.5
100-24	PCC PAVEMENT	C.6
112-09	SHOULDERS	C.6
110-17	CLEARING AND GRUBBING	C.6
110-12	POLLUTION PREVENTION PLAN	RC.1-RC.2
232-03A	EROSION CONTROL (RURAL SEEDING)	RC.2
100-17	TABULATION OF SILT FENCE	RC.2
100-19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	RC.2
281-03	STORM WATER BEST MANAGEMENT PRACTICES	RC.2
281-03	STORM WATER BEST MANAGEMENT PRACTICES	RC.2

105-04
Modified

STANDARD DETAILS

The following Standards apply to construction work on this project.

NUMBER	DATE	TITLE
BA-102	10-18-22	44" CONCRETE BARRIER (HALF SECTION)
BA-105	10-18-22	34" TO 44" CONCRETE BARRIER TRANSITION SECTION
DR-303	10-17-17	SUBDRAIN (LONGITUDINAL)
DR-306	10-17-17	PRECAST CONCRETE HEADWALL FOR SUBDRAIN OUTLETS
EC-204	10-19-21	PEROMETER, SLOPE, AND DITCH CHECK SEDIMENT CONTROL DEVICES
EC-303	10-19-21	STABILIZED CONSTRUCTION ENTRANCE
EC-502	04-21-15	SEEDING IN RURAL AREAS
EC-603	10-17-23	EROSION CONTROL FOR INTAKE OR MANHOLE WELL
EW-101	10-17-17	EMBANKMENT AND REBUILDING EMBANKMENTS
PM-110	10-15-24	LINE TYPES
PM-115	10-15-24	GROOVES FOR LINE TYPES
PV-101	04-19-22	JOINTS
TC-1	10-15-19	WORK NOT AFFECTING TRAFFIC (TWO LANE OR MULTI LANE)
TC-417	04-21-20	RAMP CLOSURE

100-27
Modified

PROPOSED POSTED SPEED LIMIT

Road Identification	Station From	Station To	Proposed Posted Speed Limit			Remarks
			35 or less	40 - 45	over 45	
Ramp A	1576+41.86	1595+35.00		45		
Truck Loop	100+00.00	108+24.44	25			

110-01
Modified

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5
*Not a Bid Item

Station From	Station To	Side	Pavement Type	Thickness (IN)	Area (SY)	Saw Cut* (LF)	Remarks
1576+41.86	1595+35.00	LT	PCC W/ HMA	12"	5913.0	119.5	RAMP PAVEMENT
1586+15.75	1586+65.20	RT	PCC	10"	132.0	36.0	PARKING LOT PAVEMENT
100+00.00	108+24.44	BOTH	PCC W/ HMA	12"	3074.0		LOOP PAVEMENT
				TOTALS:	9119.0	155.5	

110-05
Modified

SIDEWALK REMOVAL

*Not a Bid Item

Station From	Station To	Area (SY)	Saw Cut* (LF)	Remarks
102+26.17	102+34.05	20.0	6.0	
1585+77.17	1585+65.27	6.0	4.5	
		26.0		

108-13A
Modified

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
	1		North end of Weigh Station Ramp
	1		South end of Weigh Station Ramp

108-18B
Modified

CONCRETE BARRIER AT SIDE LOCATIONS

* Bid Item

Location					Offset	SIDE BARRIER					Remarks	Expansion Joints		
No.	Direction of Traffic	Station From	Station To	Side		Barrier Type	Length of Barrier*	BA-105 Transition Section*	BA-107 End Section*	Reinforced Paved Shoulder		Station	Side	Remarks
					FT		LF	No.	No.	Yes/No				
1	SB	1585+76.88	1585+64.88	RT	0.0	BA-102	12.0			NO				
2	SB	1585+64.88	1585+27.88	RT	0.0	BA-102	37.0			NO				
3	SB	1585+27.88	1585+17.88	RT	0.0	BA-105		1		NO				

113-1a
Modified

SIDEWALKS

(A) Distance from Back of Curb to Face of Sidewalk
(B) Width of Sidewalk
(C) Slope from Face of Sidewalk to Back of Curb

Road Identification	Station From	Station To	Side	A	B	S	4" PCC Sidewalk	Detectable Warnings	Remarks
				FT	FT	%	SY	SF	
SR_LOOP	102+18.12	102+23.64	RT				8.5		

108-22
Modified

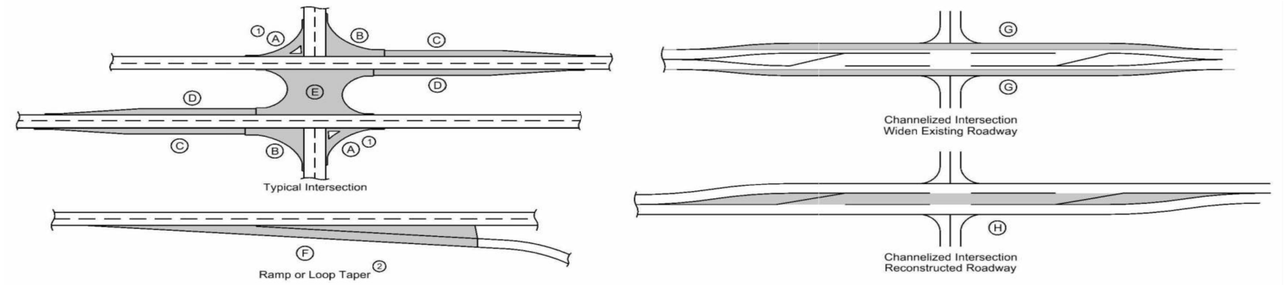
PAVEMENT MARKING LINE TYPES

RLW6: Ramp Edge Line Right (White) @ 1.00 RLY6: Ramp Edge Line Left (Yellow) @ 1.00 CHW8: Channelizing Line (White) @ 1.33 CHY8: Channelizing Line (Yellow) @ 1.33 SLW2: Stop Line (White) @ 4.00

Road Identification	Station		Direction Of Travel	Marking Type	Length by Line Type (Unfactored)							Remarks
	Begin	End			Side			RLW6	RLY6	CHW8	SLW2	
					L	C	R	STA	STA	STA	STA	
GEOMBL_RAMPA	1576+41.86	1584+32.47	SB	Waterborne/Solvent Paint			X	7.91				
GEOMBL_RAMPA	1585+04.38	1585+53.19	SB	Waterborne/Solvent Paint			X	0.49				
GEOMBL_RAMPA	1587+32.82	1595+35.00	SB	Waterborne/Solvent Paint			X	8.03				
GEOMBL_RAMPA	1576+41.86	1595+35.00	SB	Waterborne/Solvent Paint	X				18.88			
GEOMBL_RAMPA	1582+92.48	1586+70.28	SB	Waterborne/Solvent Paint		X				3.78		
GEOMBL_RAMPA		1586+20.91	WB	Waterborne/Solvent Paint			X	0.23				
GEOMBL_RAMPA		1586+29.86	WB	Waterborne/Solvent Paint			X	0.23				
GEOMBL_RAMPA		1586+38.79	WB	Waterborne/Solvent Paint			X	0.23				
GEOMBL_RAMPA		1586+47.78	WB	Waterborne/Solvent Paint			X	0.23				
GEOMBL_RAMPA		1586+56.86	WB	Waterborne/Solvent Paint			X	0.23				
SR_LOOP	100+00.00	108+24.44	NB	Waterborne/Solvent Paint			X	8.00				
SR_LOOP	101+65.74	102+25.87	NB	Waterborne/Solvent Paint		X				0.60		
SR_LOOP		102+25.87	NB	Waterborne/Solvent Paint		X					0.12	
SR_LOOP	101+93.17	102+53.17	NB	Waterborne/Solvent Paint		X				0.60		
SR_LOOP		102+53.17	NB	Waterborne/Solvent Paint		X					0.12	
SR_LOOP	102+20.60	102+80.47	NB	Waterborne/Solvent Paint		X				0.60		
SR_LOOP		102+80.47	NB	Waterborne/Solvent Paint		X					0.12	
SR_LOOP	102+47.77	103+09.31	NB	Waterborne/Solvent Paint		X				0.60		
SR_LOOP		103+21.47	NB	Waterborne/Solvent Paint		X					0.12	
SR_LOOP	100+44.82	107+57.39	NB	Waterborne/Solvent Paint	X				8.60			
SR_LOOP	103+75.39	104+95.34	NB	Waterborne/Solvent Paint		X				1.20		
				FACTORED TOTALS:				25.58	27.48	9.82	1.92	

100-24
Modified

PCC PAVEMENT



(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

(1) Quantity includes Pavement Header.
(A) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(F) Refer to PV-410, PV-411, PV-412, and PV-414.

Location				Mainline			Area (1)								Total Area By Pavement Thickness		Polymer Grid	Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		WIDTH	LENGTH	AREA	A	B	C	D	E	F	G	H	SY						
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	10 IN	10½ IN	SY	TON	CY	SY	
GEOMBL_RAMPA	SB	1576+41.86	1595+35.00	16.0	1893.1	4071.3									4071.0		7285.0		2428.0		
SR_LOOP	NB	100+00.00	108+24.44	30.0	824.4	3677.4									3678.0		5058.0		1686.0		
GEOMBL_RAMPA	WB	1586+15.75	1586+65.20	24.0	49.5	131.9									132.0						Scale House Parking
														TOTALS:	7881.0		12343.0		4114.0		

112-09
Modified

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Location					P	PSG (2)	G	L	Class 13 Excavation (3)(4)	Quantities																Remarks
Road Identification	Direction of Traffic	Station From	Station To	Side	Width	Width	Width	Length		Hot Mix Asphalt		Binder	Paved Shoulder (3)	Shoulder at Guardrail (5)(7)	Reinforced Paved Shoulder (3)	Special Backfill Hma Alt. (3)	Special Backfill Hma Alt.	Special Backfill Pcc Alt. (3)	Special Backfill Pcc Alt.	Polymer Grid	Subbase (3)(8)	Granular Shoulder (3)	Granular Shoulder	Shoulder Const. Alt (3)	Shoulder Const. Alt Hma (6)	Shoulder Const. Alt Pcc (6)	
					FT	FT	FT	FT	CY	TON	TON/STA	TON	SY	SY	SY	TON	TON/STA	TON	TON/STA	SY	CY	TON	TON/STA	STA	CY	CY	
GEOMBL_RAMPA	SB	1576+41.86	1595+35.00	LT	4.0			1887.5					839.0											18.9		462.8	POLYMER GRID INCLUDED IN PCC TAB 100-24
GEOMBL_RAMPA	SB	1576+41.86	1584+22.58	RT	6.0			781.8					521.0											7.8		190.8	
GEOMBL_RAMPA	SB	1586+65.27	1586+70.28	RT	4.0			5.0					2.0											0.1		1.2	
GEOMBL_RAMPA	SB	1587+36.12	1595+35.00	RT	6.0			799.5					533.0											8.0		195.3	
SR_LOOP	NB	100+46.84	107+48.57	LT	VAR			848.5					633.0											8.5		171.5	
SR_LOOP	NB	100+00.00	108+24.44	RT	4.0			797.0					371.0											8.0		201.5	
												TOTAL:	2899.0											TOTAL: 51.3		1223.2	

110-17
Modified

CLEARING AND GRUBBING

Location			Work and Material Type	3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Other Materials		Estimated Quantities			Remarks
Station From	Station To	Direction of Travel															Length	Width	Units	Area	Herbicide Application	
																	FT	FT		AC	EA	
103+85.76, 67' RT			Trees - Clearing and Grubbing		1														3.9			
106+65.02, 52' RT			Trees - Clearing and Grubbing	1															1.6			
106+82.77, 56' RT			Trees - Clearing and Grubbing	1															1.6			
107+07.20, 48' RT			Trees - Clearing and Grubbing	1															1.6			
107+23.33, 62' RT			Trees - Clearing and Grubbing			1													6.7			
107+37.24, 62' RT			Trees - Clearing and Grubbing			1													6.7			
107+77.10, 49' RT			Trees - Clearing and Grubbing	1															1.6			
107+85.40, 59' RT			Trees - Clearing and Grubbing			1													1.6			
																			30.4			

103_10
4/30/25

TOPSOIL STRIPPING AND PLACEMENT

Line No.	Road Identification	Dir. of Traffic	Station From	Station To	Topsoil Stripping Thickness (IN)	Topsoil Placement Thickness (IN)	Remarks
1.0			--	--	12.0	8.0	Entire project

103_07
8/15/22

SHRINKAGE DATA

Material	%	Remarks
Topsoil	40.0	

104_09A
5/6/24

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	I-35 Ramp A	1576+41.86	1580+00.00	Right	42.0	4.0	388.1	1576+41.86	DR-306	35.9	
2.0	I-35 Ramp A			Right	42.0	4.0	30.0	1580+00.00	DR-306	2.8	
3.0	I-35 Ramp A	1580+00.00	1583+25.00	Right	42.0	4.0	355.0	1580+00.00	DR-306	32.9	
4.0	I-35 Ramp A			Right	42.0	4.0	30.0	1583+25.00	DR-306	2.8	
5.0	I-35 Ramp A	1588+00.00	1593+00.00	Right	24.0	4.0	530.0	1588+00.00	DR-306	24.5	
6.0	I-35 Ramp A			Right	24.0	4.0	30.0	1593+00.00	DR-306	1.4	
7.0	I-35 Ramp A	1593+00.00	1595+35.00	Right	36.0	4.0	265.0	1593+00.00	DR-306	20.4	
8.0	I-35 Ramp A			Right	36.0	4.0	30.0	1595+35.00	DR-306	2.3	
9.0	SR Loop	100+40.00	101+29.70	Right	24.0	4.0	119.7	100+40.00	DR-306	5.5	
10.0	SR Loop			Right	24.0	4.0	30.0	101+29.70	DR-306	1.4	
11.0	SR Loop	101+29.70	105+00.00	Right	24.0	4.0	400.3	101+29.70	DR-306	18.5	
12.0	SR Loop			Right	24.0	4.0	30.0	105+00.00	DR-306	1.4	
13.0	SR Loop	105+00.00	106+23.77	Right	24.0	4.0	153.8	105+00.00	DR-306	7.1	
14.0	SR Loop			Right	24.0	4.0	30.0	106+23.77	DR-306	1.4	
15.0	SR Loop	106+23.77	108+24.44	Right	24.0	4.0	230.7	106+23.77	DR-306	10.7	Cap at 108+24.44
16.0	SR Loop	101+29.70	105+00.00	Left	36.0	4.0	400.3	101+29.70	DR-306	30.9	
17.0	SR Loop			Left	36.0	4.0	30.0	105+00.00	DR-306	2.3	
18.0	SR Loop	105+00.00	106+23.77	Left	36.0	4.0	153.8	105+00.00	DR-306	11.9	
19.0	SR Loop			Left	36.0	4.0	30.0	106+23.77	DR-306	2.3	
Total							3266.7		DR-306=23	216.4	

NOTE: ALL LONGITUDINAL SUBDRAIN ARE TYPE 7 WITH PCC OR TYPE 8 WITH HMA (ACC) UNLESS OTHERWISE NOTED IN REMARKS COLUMN.
NOTE: ALL LONGITUDINAL SUBDRAINS MAY BE ADJUSTED BOTH VERTICALLY AND HORIZONTALLY IN THE FIELD AS NECESSARY.

GEOTECHNICAL DESIGN

LICENSED PROFESSIONAL ENGINEER
Mark A. Dell
21208
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature 8/5/26 Date

Mark A. Dell
Printed or Typed Name

My license renewal date is December 31, 20 27

Pages or sheets covered by this seal: CS.1

FILE NO.	ENGLISH	DESIGN TEAM Dell/Fagre/Immel	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER CS.1

8/3/2026 2:51:31 PM grace.immel@iowadot.us

SURVEY SYMBOLS

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

UTILITY LEGEND

E2, FO3, O — Iowa DOT
Contact Name: Jim Armstrong
Contact Phone: (641) 919-9125 (Mobile)
Contact Email: james.armstrong@iowadot.us

E1 — Hearland Power Cooperative

FO2, E3 — PrePass

FO — Winnebago Cooperative Telephone Association (WCTA)
Contact Name: Chaden Riles
Contact Phone:
Contact Email: chadenriles@wctatel.com

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.		
Green	(2)	Existing Topographic Features and Labels	
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation	
Magenta	(5)	Existing Utilities	
SHADING	**Design Color No.**		**Transparency**
Pink, Dark	(13)	Temporary Pavement Shading	50%
Yellow	(4)	Proposed Pavement Shading	50%
Orange	(6)	Proposed Granular Shading	50%
Orange	(70)	Proposed Shoulder Granular Shading	50%
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading	50%
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading	50%
Brown, Light	(236)	Grading Shading	50%
Orange, Light	(134)	Proposed Granular Entrance Shading	50%
Yellow	(220)	Proposed Paved Entrance Shading	50%
Tan	(8)	Proposed Sidewalk Shading	50%
Blue, Light	(230)	Proposed Sidewalk Landing Shading	50%
Pink	(11)	Proposed Sidewalk Ramp Shading	50%
Red	(3)	Proposed Structure Shading	50%
Red	(3)	Delineates Restricted Areas	0%

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

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

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER D.1

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HEARTLAND TWP
T-100N R-21W
SECTION 8

Δ = 10°00'00.78" (RT)
T = 100.26'
L = 200.02'
R = 1146.00'
E = 4.38'

POE 1602+40.82
1602+00
1601+00
1600+00
1599+00
1598+00
1597+00
PT 1596+41.32
1596+00
1595+00
PC 1594+41.30
1594+00
1593+00
1592+00
1591+00
1590+00
PI 1589+79.43
1589+00

GRADING LIMITS
6' FULL DEPTH SHOULDER
4' FULL DEPTH SHOULDER
GRADING LIMITS
RAMP A
6.0%
2.0%
4.0%

END PAVING
STA 1595+35.00 (ML_RampA) =
SA 529+35.20, OFF 96.62' LT (ML_035)

PI 1595+41.57
PT 1592+24.93

Δ = 12°18'22.84" (LT)
T = 247.10'
L = 492.29'
R = 2292.00'
E = 13.28'

INTERSTATE 35

0 50
FEET

521+00 522+00 523+00 524+00 525+00 526+00 527+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+

1275 1270 1265 1260 1255 1250 1245 1240 1235 1230

VPI = +53.27
EL = 1266.54
L = 500.00'
K = 370

-1.35% +0.00%

-1.35%

VPT = 1592+03.27
EL = 1263.16

ML RampA P

1258.68 1258.82 1259.15 1259.49 1259.83 1260.17 1260.50 1260.84 1261.18 1261.52 1261.86 1262.19 1262.53 1262.87 1263.21 1263.53 1263.84 1264.14 1264.41 1264.67 1264.91 1265.14 1265.35 1265.54 1265.72 1265.87

1602+00 1601+00 1600+00 1599+00 1598+00 1597+00 1596+00 1595+00 1594+00 1593+00 1592+00 1591+00 1590+00 1589+00

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER D.2

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HEARTLAND TWP
T-100N R-21W
SECTION 8

CONTRACTOR TO VERIFY DEPTH OF EXISTING LINE AND NOTIFY ENGINEER OF POTENTIAL CONFLICT WITH PAVING

REPLACE EXISTING LOOP DETECTOR AND CONNECT TO EXISTING TRAFFIC SIGNAL SYSTEM (LOCATION IS APPROXIMATE)

REFER TO SHEET D.4 FOR LOOP PAVING DETAILS

GRADING LIMITS

SR LOOP

RAMP A

EQUATION:
STA 1585+70.28 (ML_RAMP A) =
STA 100+00.00 (SR_LOOP)

EQUATION:
STA 1585+04.38 (ML_RAMP A) =
STA 108+24.44 (SR_LOOP)

DO NOT DISTURUB SCALE OR 10' APPROACH ON EITHER SIDE

6' FULL DEPTH SHOULDER

4' FULL DEPTH SHOULDER

DO NOT DISTURB

DO NOT DISTURB

BEGIN PAVING
STA 1576+41.86 (ML_RampA)
STA 548+09.07, OFF 96.60' LT (ML_035)

STA 1575+50.69 (ML_RampA) =
STA 549+00.00, OFF 89.50' LT (ML_035)

INTERSTATE 35

0 50 FEET

Δ = 12°18'22.84" (LT)
T = 247.10'
L = 492.29'
R = 2292.00'
E = 13.28'

Δ = 08°16'03.89" (LT)
T = 14.46'
L = 28.86'
R = 200.00'
E = 0.52'

Δ = 05°23'50.32" (RT)
T = 77.17'
L = 154.22'
R = 1637.14'
E = 1.82'

1589+00 1588+00 1587+00 1586+00 1585+00 1584+00 1583+00 1582+00 1581+00 1580+00 1579+00 1578+00 1577+00 1576+00 1575+00

535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00 549+00 550+00

PC 1587+32.34
PT 1584+18.48
PC 1583+89.62
PI 1584+04.07
PT 1577+04.91
PC 1575+50.69
PI 1576+27.86

30.0' 15.5' 30.0' 16.0' 16.0'

VPC = 1587+03.27
EL = 1266.54

VPT = 1584+19.47
EL = 1266.54

VPC = 1578+19.47
EL = 1267.97

+0.00% +0.00% -0.48% -0.48%

VPI = +19.47
EL = 1266.54
L = 600.00'
K = 1257

BEGIN PAVING
STA 1576+41.86
ELV 1268.82

ML RampA P

1285 1280 1275 1270 1265 1260 1255 1250 1245 1240

1266.02 1266.14 1266.25 1266.34 1266.41 1266.47 1266.51 1266.53 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.54 1266.55 1266.56 1266.57 1266.60 1266.62 1266.65 1266.69 1266.73 1266.78 1266.83 1266.88 1266.94 1267.01 1267.08 1267.16 1267.24 1267.32 1267.42 1267.51 1267.61 1267.72 1267.83 1267.94 1268.06 1268.18 1268.30 1268.42 1268.54 1268.66 1268.78 1268.82

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER D.3

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HEARTLAND TWP
T-100N R-21W
SECTION 8

CONTRACTOR TO VERIFY DEPTH OF EXISTING LINE AND NOTIFY ENGINEER OF POTENTIAL CONFLICT WITH PAVING

ADJUST GRADING AROUND LIGHTING AS NEEDED

Δ = 31°10'34.97" (RT)
T = 13.95'
L = 27.21'
R = 50.00'
E = 1.91'

Δ = 148°47'29.01" (RT)
T = 179.03'
L = 129.84'
R = 50.00'
E = 135.88'

Δ = 147°10'24.47" (RT)
T = 169.74'
L = 128.43'
R = 50.00'
E = 126.95'

Δ = 32°51'31.61" (RT)
T = 44.23'
L = 86.02'
R = 150.00'
E = 6.39'

PC 102+80.57
PI 102+94.52
PT 103+07.78
PC 104+95.33
PT 101+29.84
PI 106+65.07
PT 106+23.77
PI 101+79.03
PC 107+58.42
PI 107+82.65
POB 100+00.00
PC 100+00.00
PC 108+24.44
POE 108+24.44

100+00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00

12' FULL DEPTH SHOULDER
SR_LOOP
GRADE TO DRAIN
GRADE TO DRAIN
4' FULL DEPTH SHOULDER
4' FULL DEPTH SHOULDER
GRADING LIMITS
GRADING LIMITS
6' FULL DEPTH SHOULDER

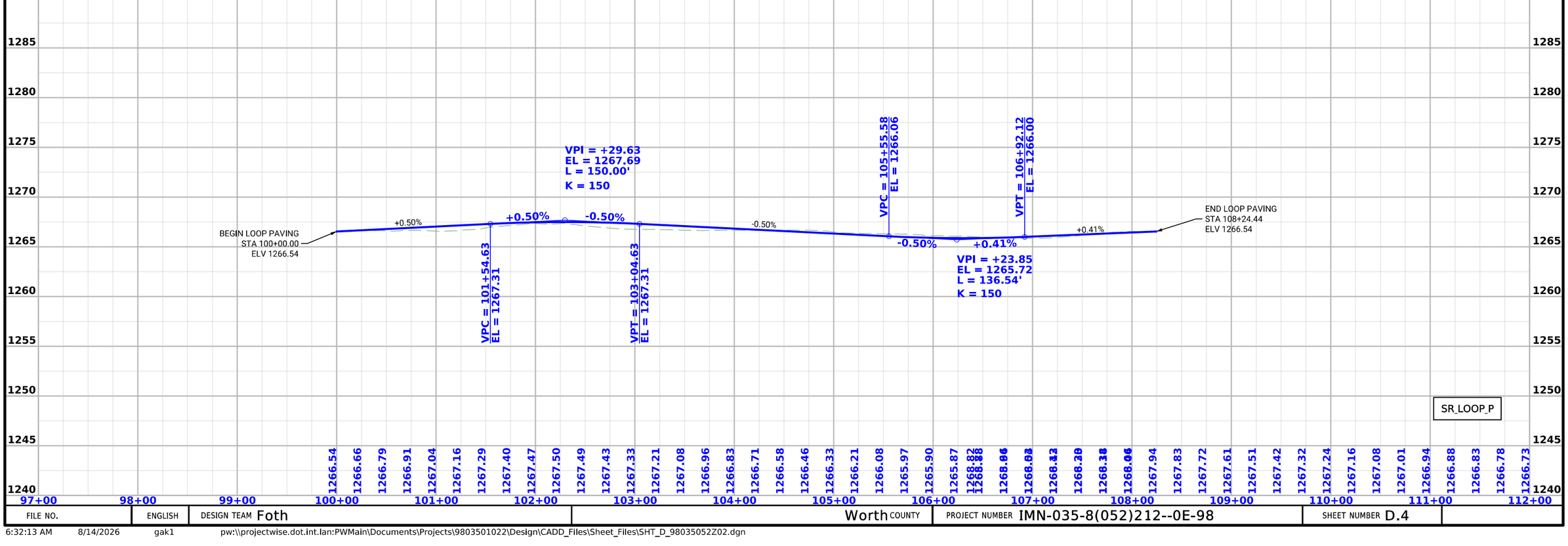
STA 100+00.00, SR_LOOP =
STA 1586+70.28, GEOMBL_RAMPA

STA 108+24.44, SR_LOOP =
STA 1585+04.38, GEOMBL_RAMPA

INTERSTATE 35

0 50
FEET

Note:
All dimensions are to edge of pavement unless otherwise noted.



SR_LOOP_P

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER D.4

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SURVEY INDEX

County : Worth
Project Code : 22-98-035-010
Phase Number : IMN-035-8(052)212--0E-98
Location : SB Weigh Station 3.2 mi N of Co Rd A38
Work Code : 1012-PCC Pavement - Replace
Project Directory : 9803501022

Survey Personnel

Daniel Duncan – Survey Party Chief

Date(s) of Survey

Begin Date	06/02/2025
End Date	07/31/2025

General Information

This survey is for SB I35 Weigh Station 3.2 mi N of Co Rd A38. This project is a Full Field DTM survey.

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

Project Control

Coordinates were determined for primary project control points by conducting concurrent six-hour static observations. Post processing is constrained to nearby Iowa Real Time Network reference stations. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 02 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for I35 this survey is a retrace of As-built Plans No. IMX-35-8(44)205—02-98 and I-35-8(9)206—01-98. Survey stationing was equated to the plan PI 533+68.5 and carried back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 443+25.0 As-built Plans Project No. IMX-35-8(44)205—02-98
Survey PI Sta. 443+27.6

PC Sta. 528+43.5 As-built Plans Project No. IMX-35-8(44)205—02-98
Survey PC Sta. 528+44.1

PI Sta. 533+68.5 As-built Plans Project No. IMX-35-8(44)205—02-98
Survey PI Sta. 533+68.5

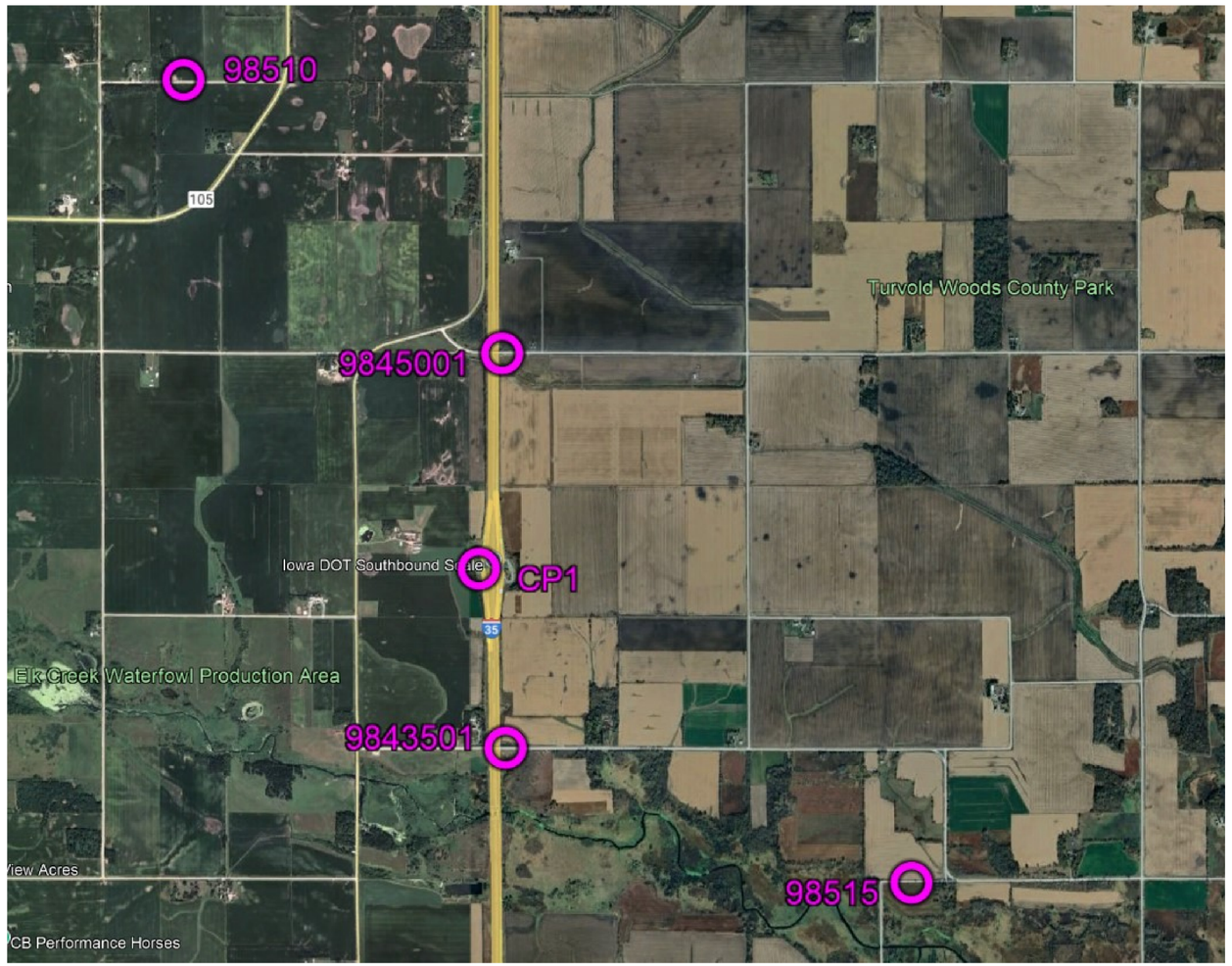
PT Sta. 538+93.5 As-built Plans Project No. IMX-35-8(44)205—02-98
Survey PT Sta. 538+92.9

PI Sta. 581+32.06 As-built Plans Project No. IMX-35-8(44)205—02-98
Survey PI Sta. 581+30.2

POT Sta. 291+71.30 As-built Plans Project No. IMX-35-8(44)205—02-98
Survey POT Sta. 291+70.16

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 02 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 02 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code-Description
98515	9880410.07	12348944.50	1213.24	CP FND COUNTY MONUMENT AS DESCRIBED
CP1	9886755.08	12340363.45	1265.19	CP SET FENO 3IN DEEP
98510	9896591.41	12334478.87	1265.47	CP FND COUNTY MONUMENT AS DESCRIBED
9845001	9891068.00	12340860.64	1285.27	CP SET FENO 2IN DEEP
9843501	9883129.05	12340830.83	1236.16	CP SET FENO 2IN DEEP

ALIGNMENT DATA - GeomBL_RampA

POINT ID	NORTHING (Y)	EASTING (X)	BEARING	DISTANCE (FEET)	STATION			CURVE DATA			
					PC	PI	PT	DELTA	R	L	T
START	9888415.54	12340594.79	S03°30'00.00"W	550.69 '		1570+00.00					
HPI	9887788.86	12340556.46	S08°53'50.32"W	761.88 '	1575+50.69	1576+27.86	1577+04.91	05°23'50.32"	1637.14 '	154.22 '	77.17 '
HPI	9887021.87	12340436.39	S00°37'46.41"W	328.32 '	1583+89.62	1584+04.07	1584+18.48	08°16'03.89"	-200.00 '	28.86 '	14.46 '
HPI	9886446.5	12340430.07	S11°40'36.43"E	463.77 '	1587+32.34	1589+79.43	1592+24.63	12°18'22.84"	-2292.00 '	492.29 '	247.10 '
HPI	9885894.13	12340544.23	S01°40'35.62"E	699.76 '	1594+41.30	1595+41.57	1596+41.32	10°00'00.78"	1146.00 '	200.02 '	100.26 '
END	9885194.67	12340564.7				1602+40.82					

ALIGNMENT DATA - SR_Loop

POINT ID	NORTHING (Y)	EASTING (X)	BEARING	DISTANCE (FEET)	STATION			CURVE DATA			
					PC	PI	PT	DELTA	R	L	T
START	9886576.61	12340431.5	N30°34'44.59"W	329.76 '	100+00.00	101+79.03	101+29.84	148°47'29.01"	50.00 '	129.84 '	179.03 '
HPI	9886872.52	12340256.65	N00°35'50.37"E	201.50 '	102+80.57	102+94.52	103+07.78	31°10'34.97"	50.00 '	27.21 '	13.95 '
HPI	9887243.74	12340260.52	S32°13'45.16"E	284.39 '	104+95.33	106+65.07	106+23.77	147°10'24.47"	50.00 '	128.43 '	169.74 '
END	9886965.75	12340435.78	S00°37'46.41"W		107+38.42	107+82.65	108+24.44	32°51'31.61"	150.00 '	86.02 '	44.23 '

ALIGNMENT DATA - ML_035

POINT ID	NORTHING (Y)	EASTING (X)	BEARING	DISTANCE (FEET)	STATION			CURVE DATA			
					PC	PI	PT	DELTA	R	L	T
START	9877292.65	12340672.41	N00°14'40.08"W	8516.48 '		443+27.60					
HPI	9886333.48	12340633.84	N00°37'46.41"E	4761.71 '	528+44.09	533+68.51	538+92.91	00°52'26.49"	68754.96 '	1048.83 '	524.42 '
END	9891094.9	12340686.16				581+30.20					

108-23A
8/15/22

TRAFFIC CONTROL PLAN

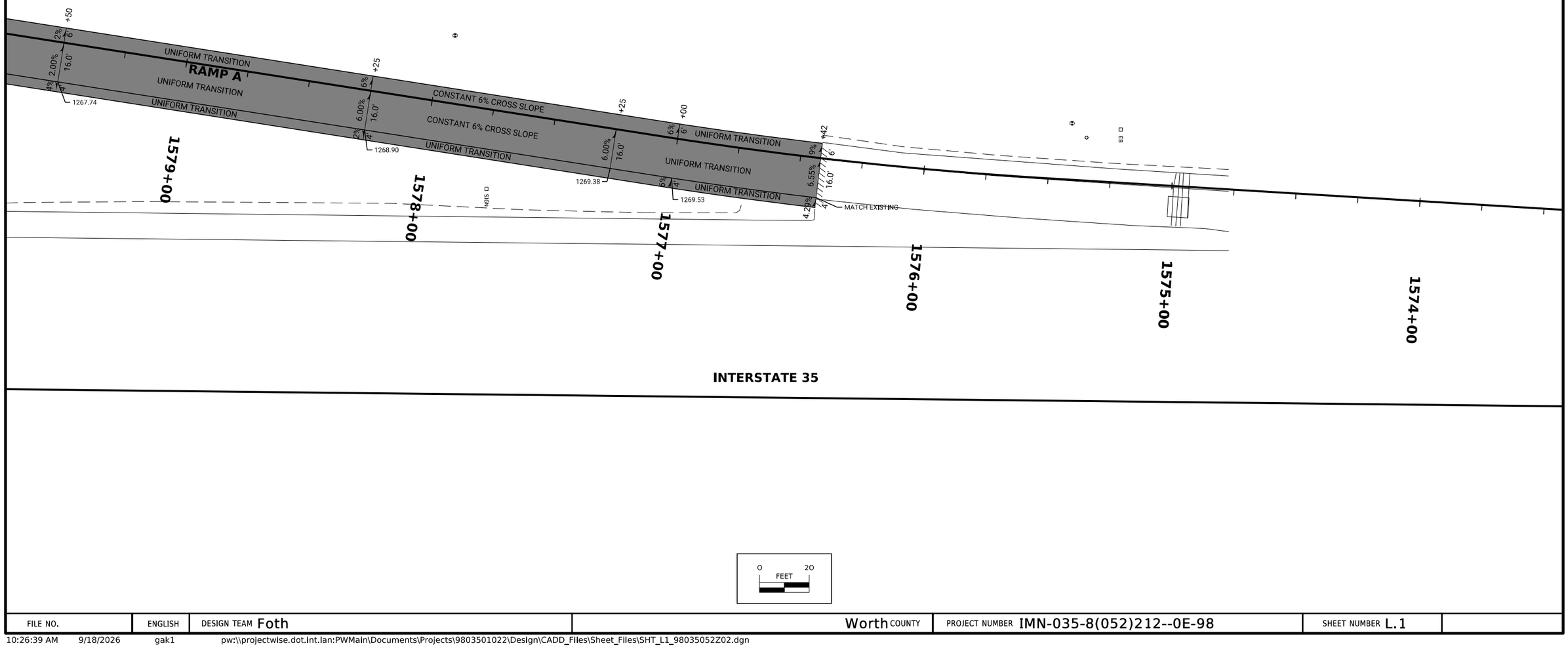
The weigh station, as well as the entrance and exit ramps between the weigh station and I-35, will be closed during construciton.
Refer to Standard Road Plan TC-417 for details. Include Road Closure Barriers.

111-01
10/14/22

COORDINATED OPERATIONS

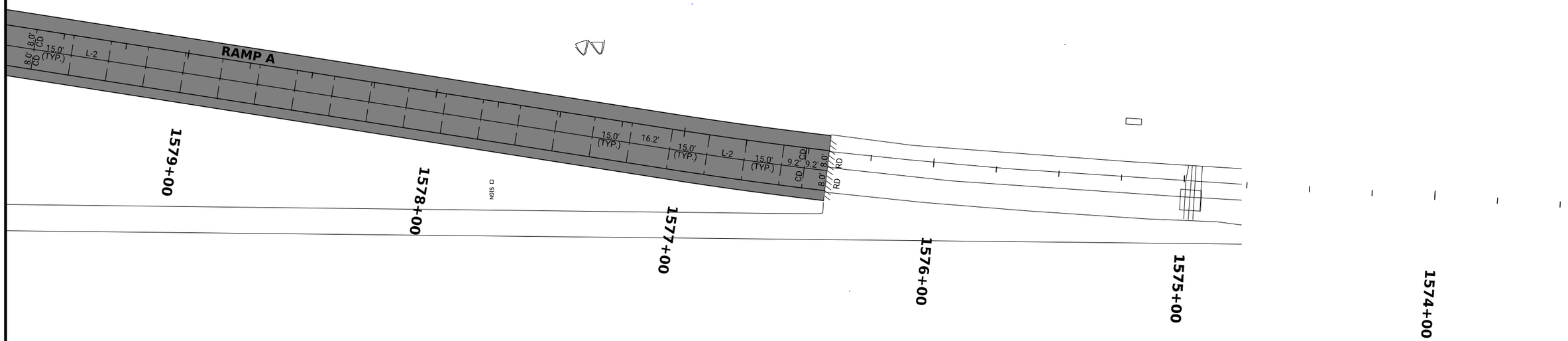
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type Of Work
None	



FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.1	

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1. Drill 1" to 2" diameter holes completely through the pavement at the intersection and fill with joint filler material to prevent sympathy cracking off the end of the joint.

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.2	

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SR LOOP

RAMP A

+04

1266.54

CONSTANT 0%
CROSS SLOPE

0.00%

30.0'

15.5'

UNIFORM TRANSITION

1266.54

1585+00

1584+00

+91

2.00%

16.0'

END 200' RAD
STA 1583+19.86, 18.08' LT
ELEV 1266.89

1583+00

BEGIN 200' RAD
STA 1582+91.10, 16.00' LT
ELEV 1266.92

1582+00

CONSTANT 2% CROSS SLOPE

CONSTANT 2% CROSS SLOPE

CONSTANT 4% CROSS SLOPE

1581+00

1580+00

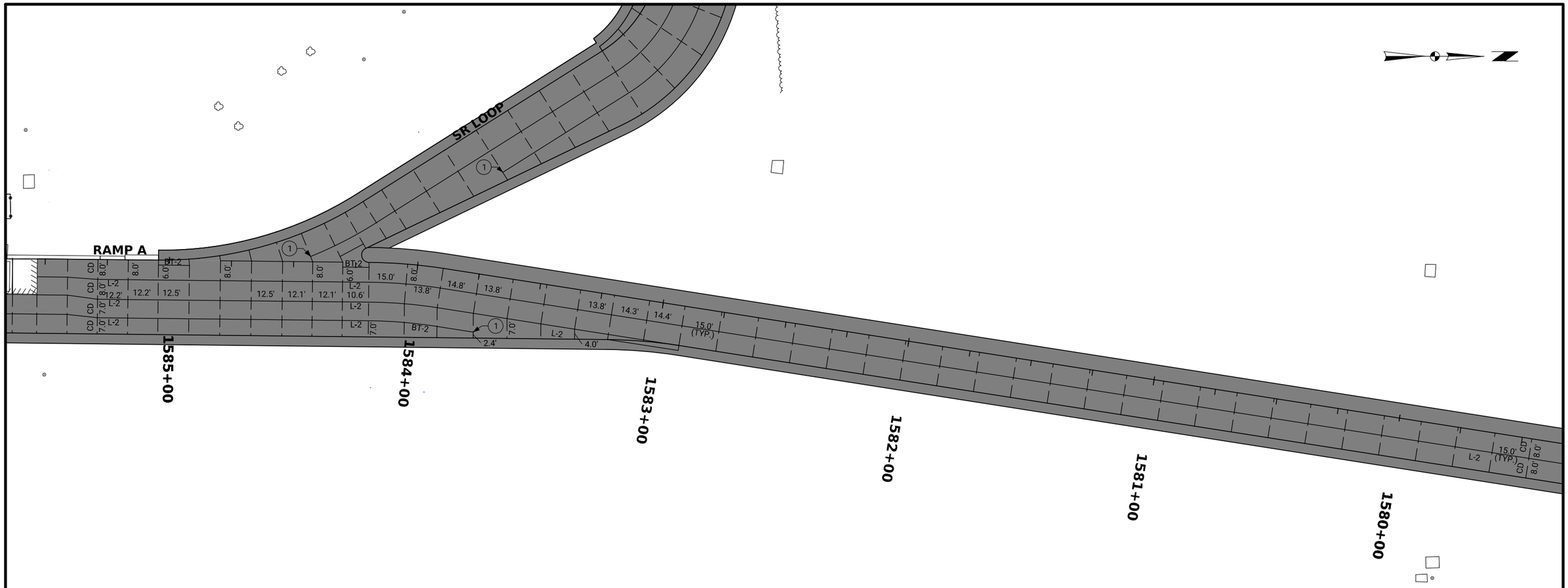
INTERSTATE 35

CENTER 200' RAD
STA 1582+91.10
OFF 216.00' LT

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.3	

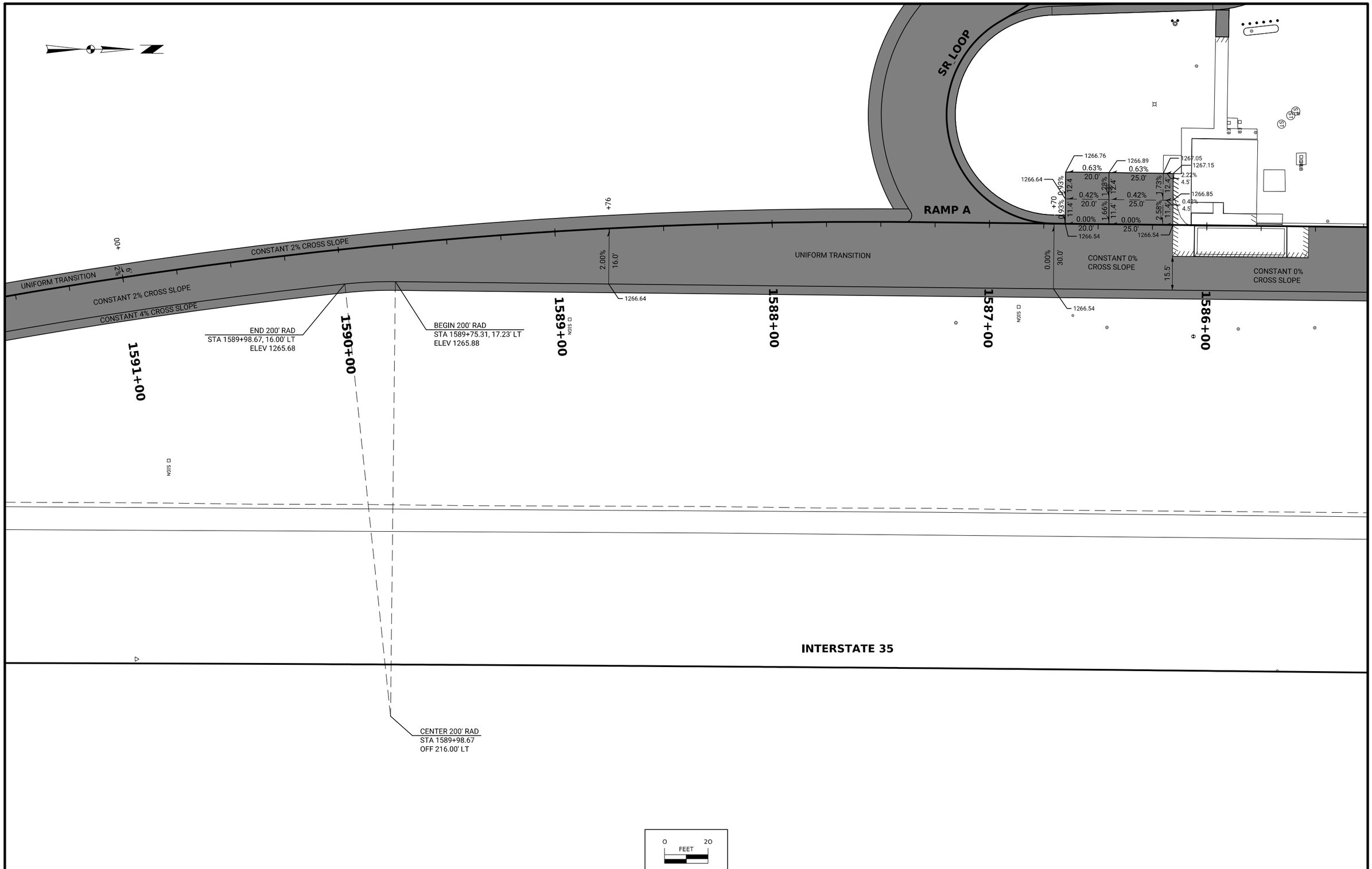
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1. Drill 1" to 2" diameter holes completely through the pavement at the intersection and fill with joint filler material to prevent sympathy cracking off the end of the joint.

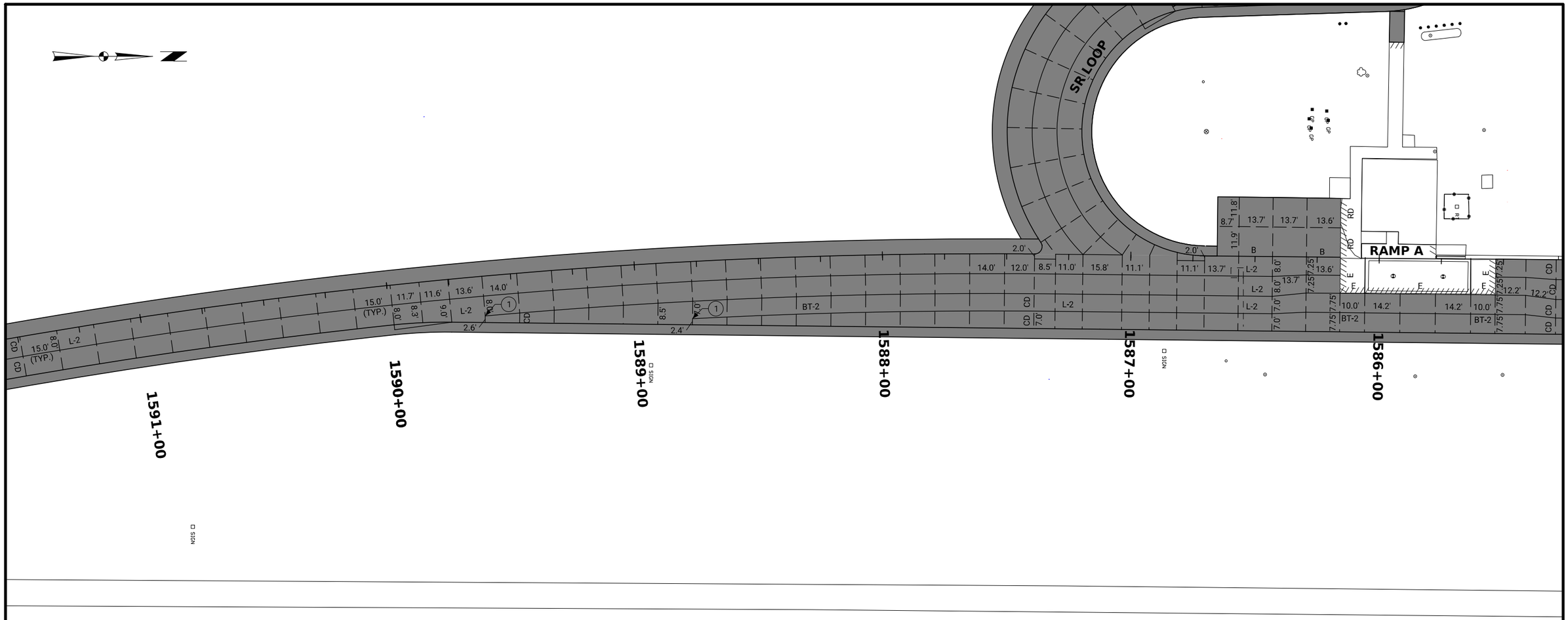
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FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.5	

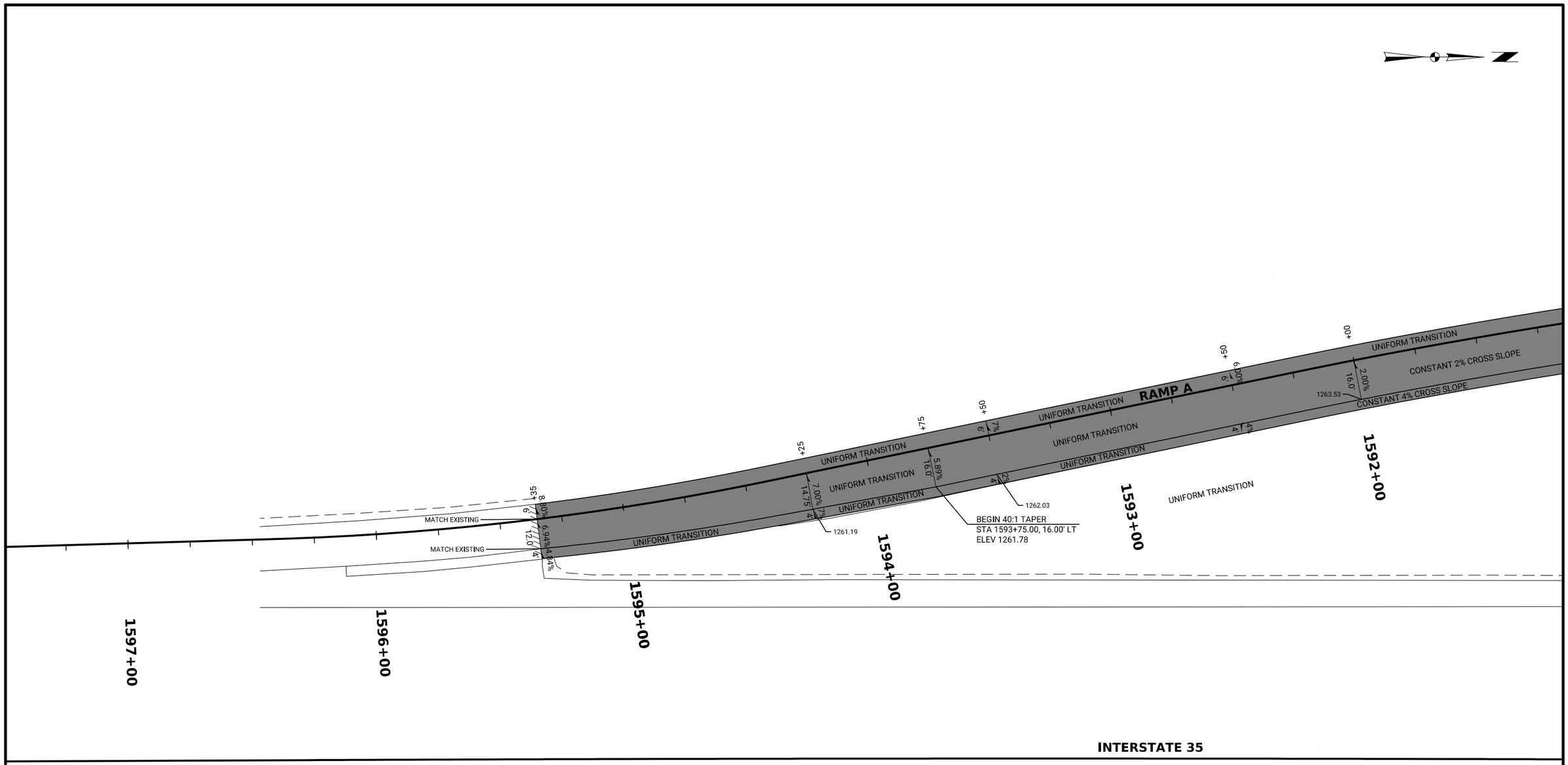
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1. Drill 1" to 2" diameter holes completely through the pavement at the intersection and fill with joint filler material to prevent sympathy cracking off the end of the joint.

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.6

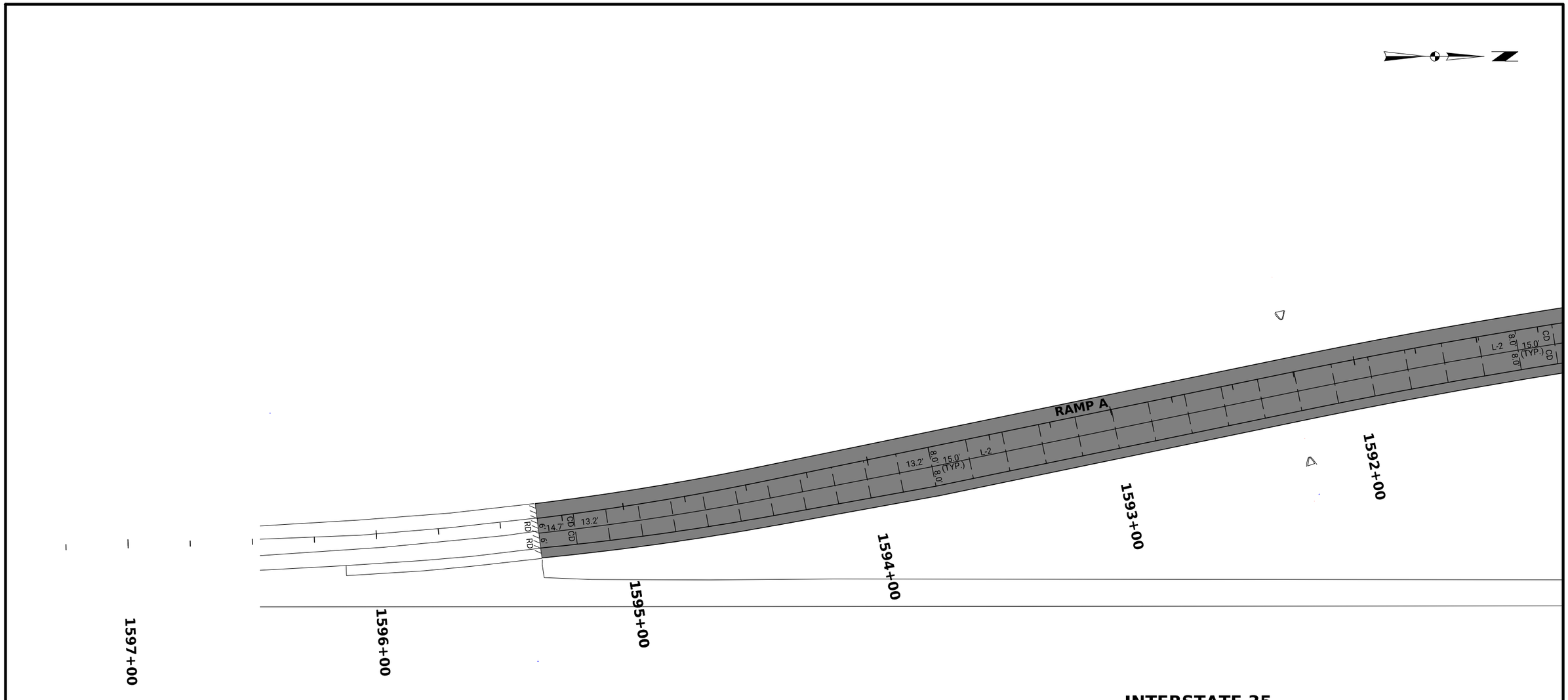
10:27:19 AM 9/18/2026 gak1 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9803501022\Design\CADD_Files\Sheet_Files\SHT_L2_98035052Z02.dgn



0 20 FEET

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.7

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1. Drill 1" to 2" diameter holes completely through the pavement at the intersection and fill with joint filler material to prevent sympathy cracking off the end of the joint.

0 20
FEET

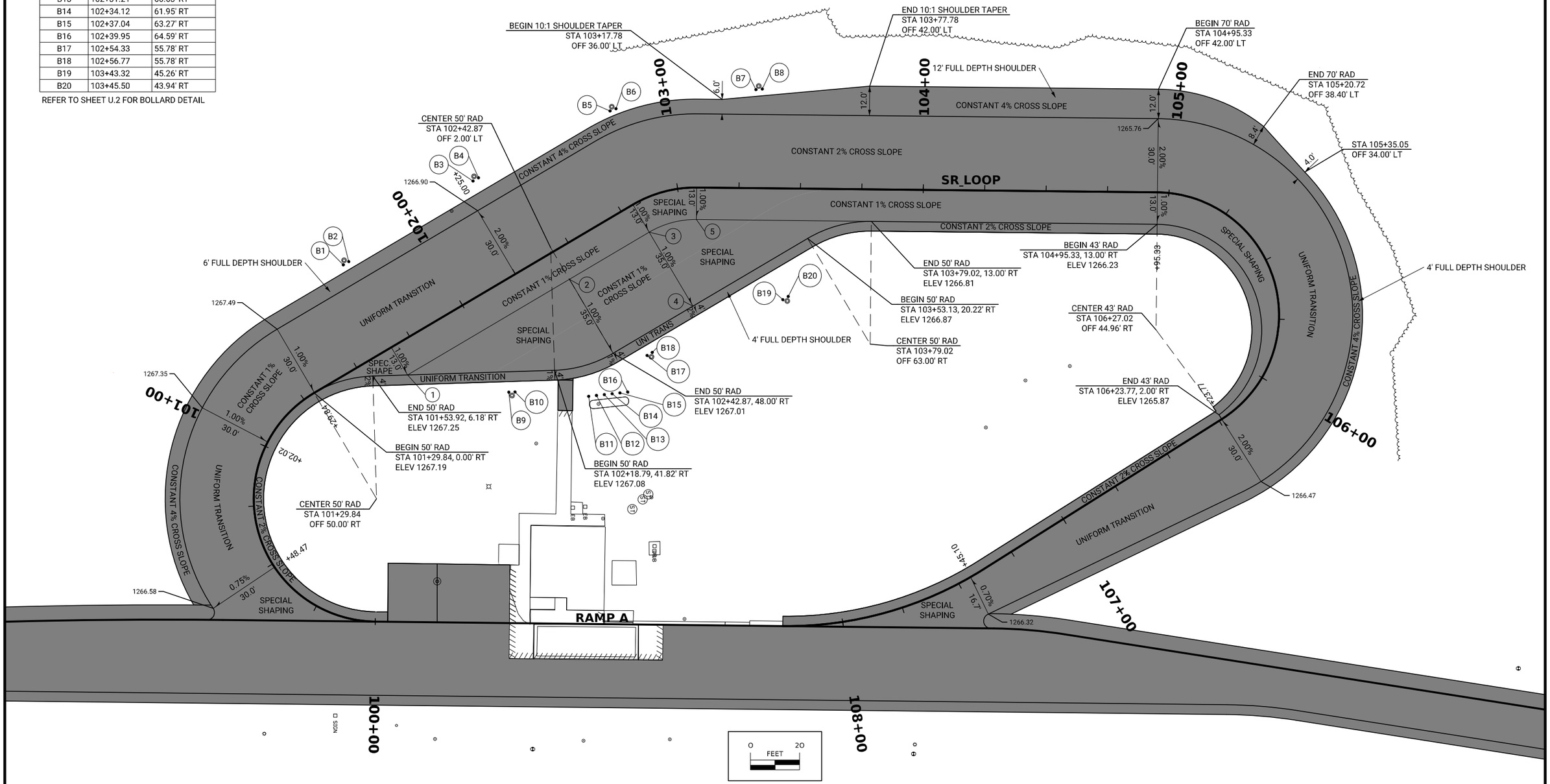
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BOLLARD LOCATIONS		
POINT	STATION	OFFSET
B1	101+66.61	38.88' LT
B2	101+69.21	38.88' LT
B3	102+29.42	41.39' LT
B4	102+32.02	41.39' LT
B5	102+87.03	38.32' LT
B6	102+88.50	38.23' LT
B7	103+31.48	40.14' LT
B8	103+34.06	40.40' LT
B9	101+98.26	40.04' RT
B10	102+00.47	41.25' RT
B11	102+25.38	57.99' RT
B12	102+28.29	59.31' RT
B13	102+31.21	60.63' RT
B14	102+34.12	61.95' RT
B15	102+37.04	63.27' RT
B16	102+39.95	64.59' RT
B17	102+54.33	55.78' RT
B18	102+56.77	55.78' RT
B19	103+43.32	45.26' RT
B20	103+45.50	43.94' RT

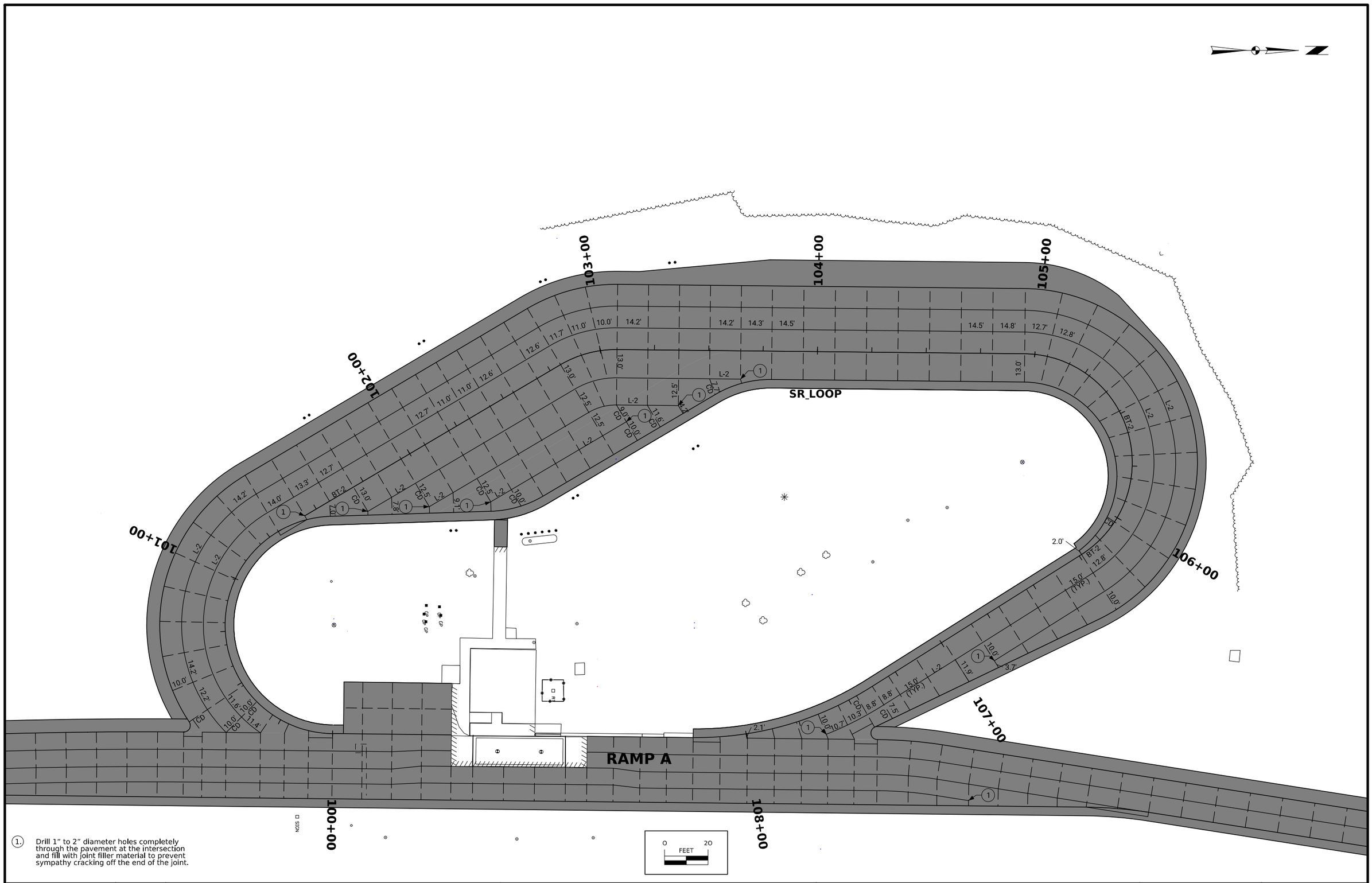
REFER TO SHEET U.2 FOR BOLLARD DETAIL

STAKING POINTS			
POINT	STATION	OFFSET	ELEVATION
1	101+66.34	13' RT	1267.23
2	102+42.87	13' RT	1267.36
3	102+81.32	13' RT	1267.28
4	102+81.32	48' RT	1266.93
5	103+07.78	13' RT	1267.17



FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.9

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1. Drill 1" to 2" diameter holes completely through the pavement at the intersection and fill with joint filler material to prevent sympathy cracking off the end of the joint.

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER L.10

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POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.

E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the PCC Pavement-Replace in Worth County.
B. This PPP covers approximately 4.1 acres with an estimated 3.25 acres being disturbed. The portion of the PPP covered by this contract has 3.25 acres disturbed.
C. The PPP is located in an area of Udorthents soil association (Human-altered Soils). The estimated weighted average runoff coefficient number for this PPP after completion will be 0.60.
D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.
E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.
F. Runoff from this work will flow into Elk Creek.

110-12
Modified

POLLUTION PREVENTION PLAN

III. CONTROLS

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
B. Preserve vegetation in areas not needed for construction.
C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.

c. Storm Water Management
Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation.
The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations.
In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
g. Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
j. Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

110-12
Modified

POLLUTION PREVENTION PLAN

B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.

B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.

C. Fieldbook Entries – This contains the inspector's daily diary and bid item postings.

D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).

E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Andy Floy
Signature

Andy Floy
Printed or Typed Name

Signature

232-03A
9/28/22

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03, B of the Standard Specifications."

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to the shoulder and median as follows:

Place seed and fertilize according to the requirements of Article 2601.03, C, 3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03, E, 2, a and 4169.07, A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

232-11
9/28/22

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03, B of the Standard Specifications."

If outside of permanent seeding dates in Section 2601 of the Standard Specifications, of if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03, C, 1 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03, E, 2, a and 4169.07, A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

100-19
MODIFIED

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

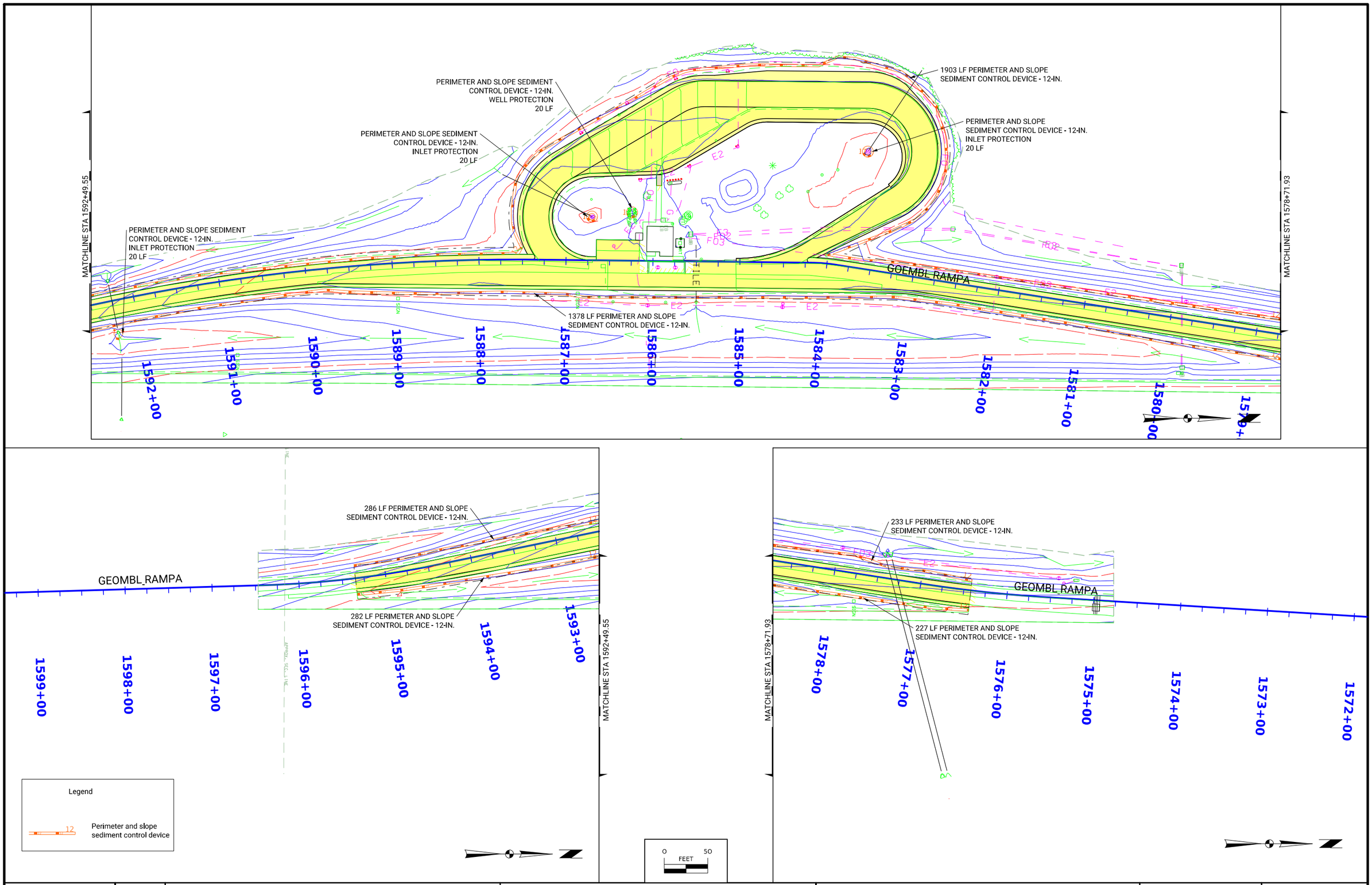
Possible Standards: EC-204

Station From	Station To	Side	Sediment Control Device Type	Diameter/Size (IN)	Length (LF)	Remarks
GEOMBL_RAMPA						
1576+42	1595+35	LT	PERIMETER	12	1887	See sheet R.1 for Location information
1576+42	1583+99		PERIMETER	12	759.0	See sheet R.1 for Location information
1587+53	1595+35		PERIMETER	12	785.0	See sheet R.1 for Location information
1592+26			INLET PROTECTION	12	20.0	See sheet R.1 for Location information
SR_LOOP						
100+56	107+26		PERIMETER	12	879.0	See sheet R.1 for Location information
100+97			INLET PROTECTION	12	20.0	See sheet R.1 for Location information
101+72			INLET PROTECTION	12	20.0	See sheet R.1 for Location information
104+95			INLET PROTECTION	12	20.0	See sheet R.1 for Location information
					4390	

281-03
Modified

STORM WATER BEST MANAGEMENT PRACTICES

When the following best management practices are used, they are intended to account for disturbed areas where storage volume cannot be provided: Perimeter Slope and Sediment Control Devices, Silt Fence, and Seeding.

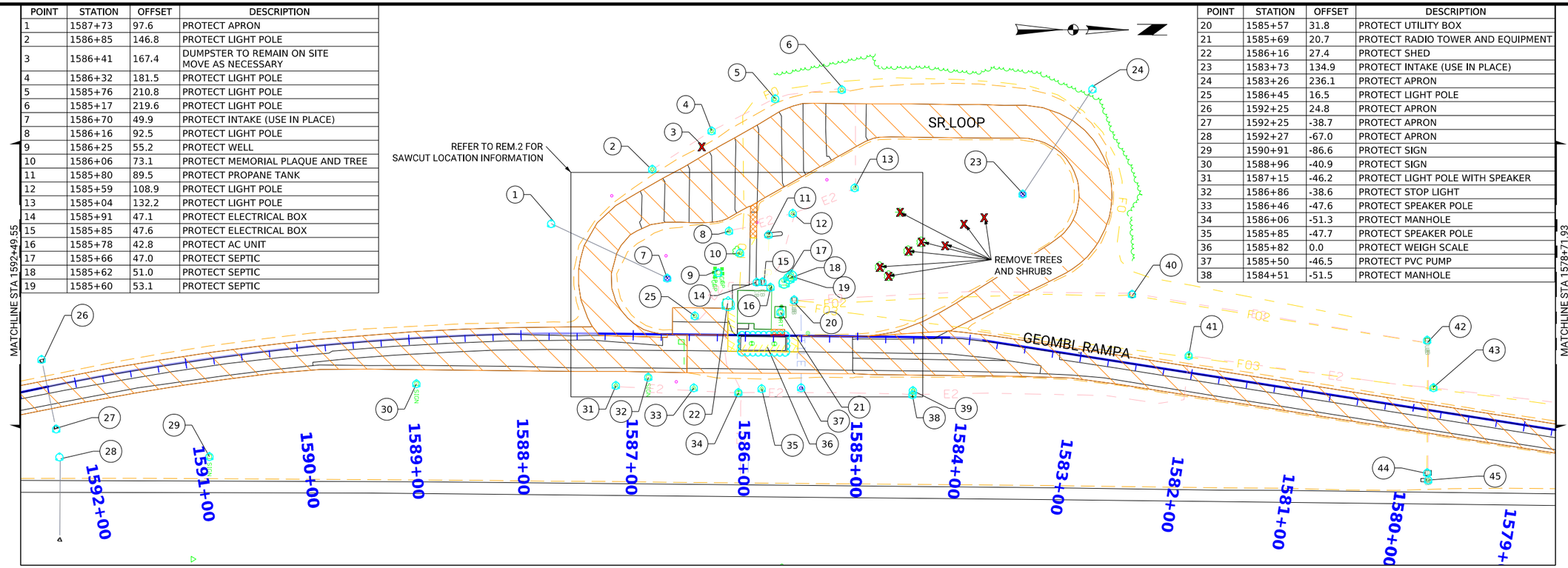


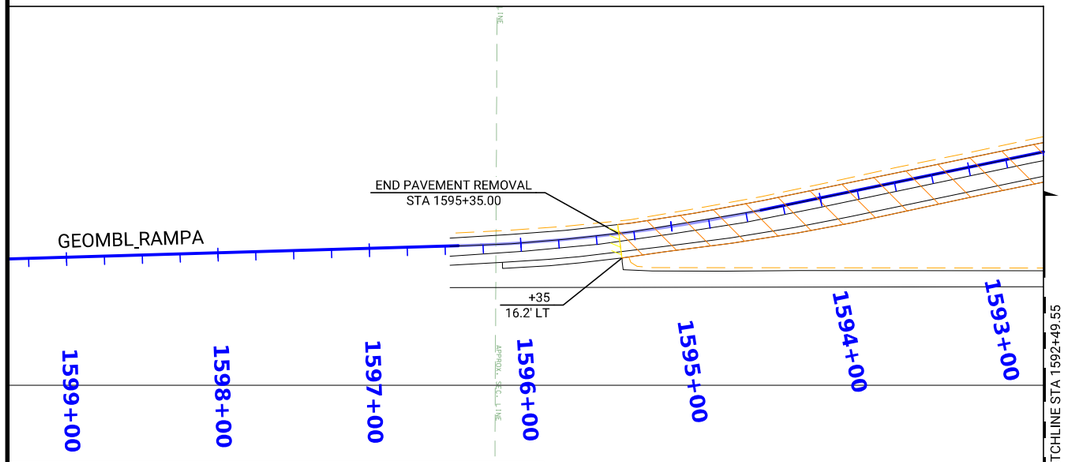
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POINT	STATION	OFFSET	DESCRIPTION
1	1587+73	97.6	PROTECT APRON
2	1586+85	146.8	PROTECT LIGHT POLE
3	1586+41	167.4	DUMPSTER TO REMAIN ON SITE MOVE AS NECESSARY
4	1586+32	181.5	PROTECT LIGHT POLE
5	1585+76	210.8	PROTECT LIGHT POLE
6	1585+17	219.6	PROTECT LIGHT POLE
7	1586+70	49.9	PROTECT INTAKE (USE IN PLACE)
8	1586+16	92.5	PROTECT LIGHT POLE
9	1586+25	55.2	PROTECT WELL
10	1586+06	73.1	PROTECT MEMORIAL PLAQUE AND TREE
11	1585+80	89.5	PROTECT PROPANE TANK
12	1585+59	108.9	PROTECT LIGHT POLE
13	1585+04	132.2	PROTECT LIGHT POLE
14	1585+91	47.1	PROTECT ELECTRICAL BOX
15	1585+85	47.6	PROTECT ELECTRICAL BOX
16	1585+78	42.8	PROTECT AC UNIT
17	1585+66	47.0	PROTECT SEPTIC
18	1585+62	51.0	PROTECT SEPTIC
19	1585+60	53.1	PROTECT SEPTIC

POINT	STATION	OFFSET	DESCRIPTION
20	1585+57	31.8	PROTECT UTILITY BOX
21	1585+69	20.7	PROTECT RADIO TOWER AND EQUIPMENT
22	1586+16	27.4	PROTECT SHED
23	1583+73	134.9	PROTECT INTAKE (USE IN PLACE)
24	1583+26	236.1	PROTECT APRON
25	1586+45	16.5	PROTECT LIGHT POLE
26	1592+25	24.8	PROTECT APRON
27	1592+25	-38.7	PROTECT APRON
28	1592+27	-67.0	PROTECT APRON
29	1590+91	-86.6	PROTECT SIGN
30	1588+96	-40.9	PROTECT SIGN
31	1587+15	-46.2	PROTECT LIGHT POLE WITH SPEAKER
32	1586+86	-38.6	PROTECT STOP LIGHT
33	1586+46	-47.6	PROTECT SPEAKER POLE
34	1586+06	-51.3	PROTECT MANHOLE
35	1585+85	-47.7	PROTECT SPEAKER POLE
36	1585+82	0.0	PROTECT WEIGH SCALE
37	1585+50	-46.5	PROTECT PVC PUMP
38	1584+51	-51.5	PROTECT MANHOLE



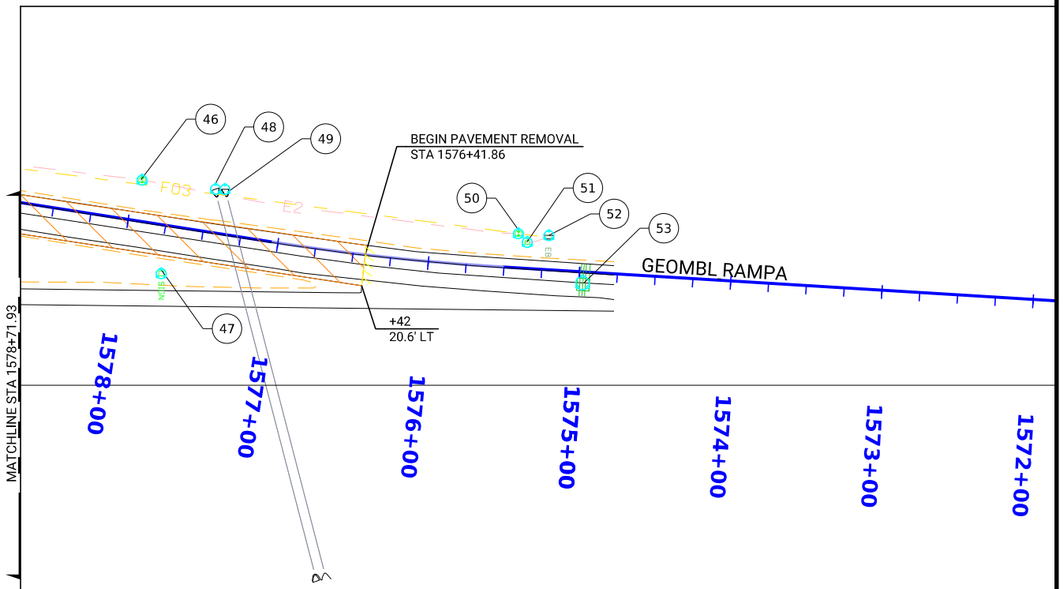


POINT	STATION	OFFSET	DESCRIPTION
39	1584+50	-47.9	PROTECT LIGHT POLE
40	1582+63	61.0	PROTECT PREPASS EQUIPMENT
41	1582+05	14.7	PROTECT MANHOLE
42	1579+97	61.3	PROTECT UTILITY BOX
43	1579+85	20.2	PROTECT MANHOLE
44	1579+79	-55.5	PROTECT ELECTRICAL EQUIPMENT
45	1579+77	-61.7	PRETECT PREPASS EQUIPMENT
46	1577+93	27.1	PROTECT MANHOLE
47	1577+73	-32.0	PROTECT SIGN
48	1577+46	28.6	PROTECT APRON
49	1577+40	29.4	PROTECT APRON
50	1575+42	22.6	PROTECT MANHOLE
51	1575+36	17.2	PROTECT LIGHT POLE
52	1575+22	22.6	PROTECT ELECTRICAL EQUIPMENT
53	1574+96	7.0	PROTECT TIRE ANOMALY CLASSIFICATION SYSTEM

LEGEND

- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- PROTECT
- REMOVE

0 50 FEET



FILE NO. | ENGLISH | DESIGN TEAM Foth | Worth COUNTY | PROJECT NUMBER IMN-035-8(052)212--0E-98 | SHEET NUMBER REM.1

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STA 1585+91.02
OFF 86.74' RT

STA 1585+96.91
OFF 86.76' RT

STA 1586+15.77
OFF 23.68' RT

SCALE HOUSE

PROTECT SIDEWALK ADJACENT
TO PARKING LOT

PROTECT SIDEWALK ADJACENT
TO SCALE HOUSE

STA 1585+77.16
OFF 5.50' RT

STA 1585+77.17
OFF 0.93' RT

REMOVE TOP OF CONCRETE WHEEL GUARD
TO ELEVATION OF WEIGH SCALE
USE AS FOOTING FOR PROPOSED BA-102
(SEE SHEET U.2 FOR DETAIL OF EXISTING WHEEL GUARD)

STA 1585+53.14
OFF 0.00' RT

GEOMBL RAMPA

STA 1586+15.64
OFF 14.50' LT

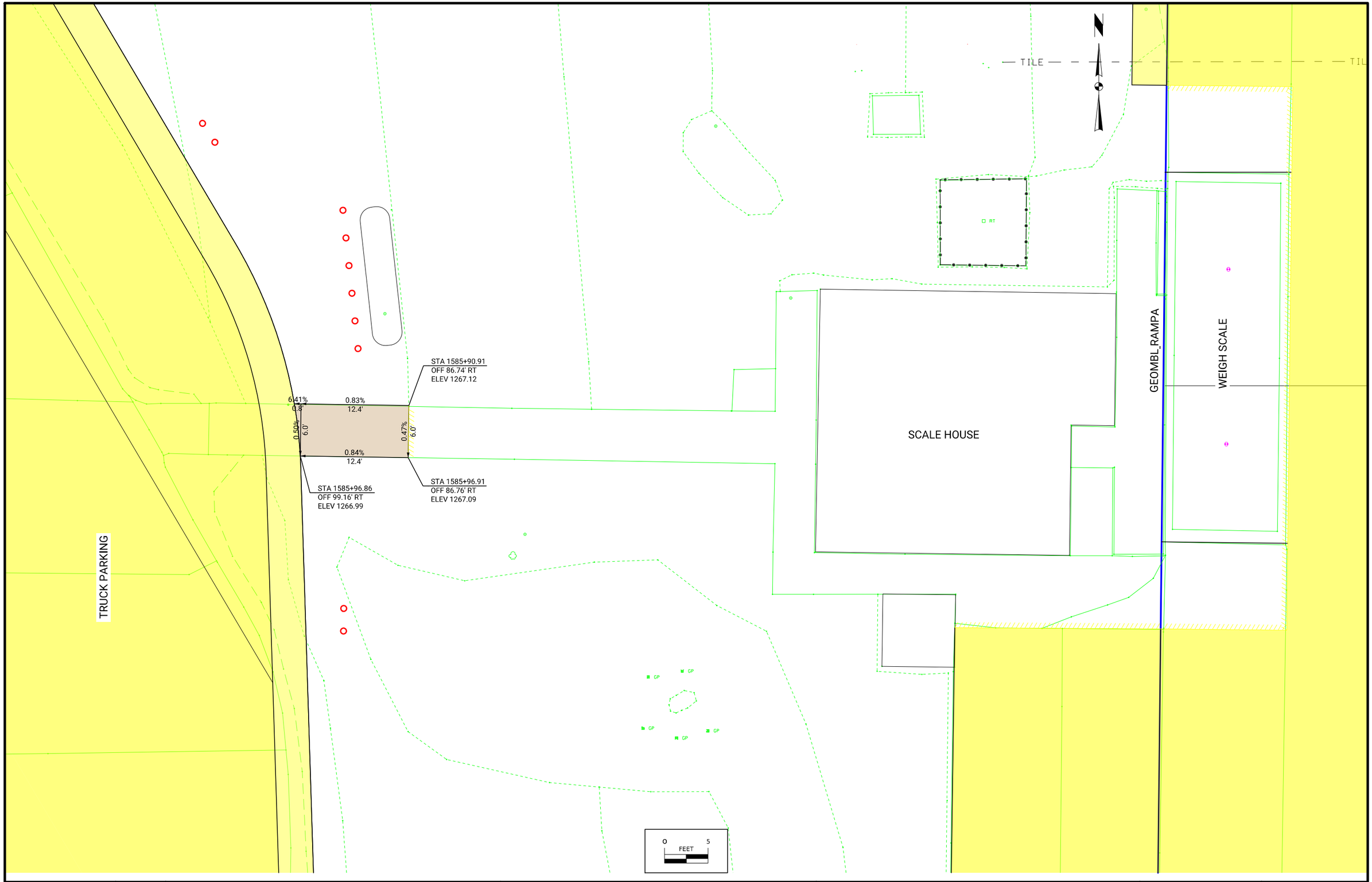
WEIGH SCALE

STA 1585+53.14
OFF 14.50' LT

0 10
FEET

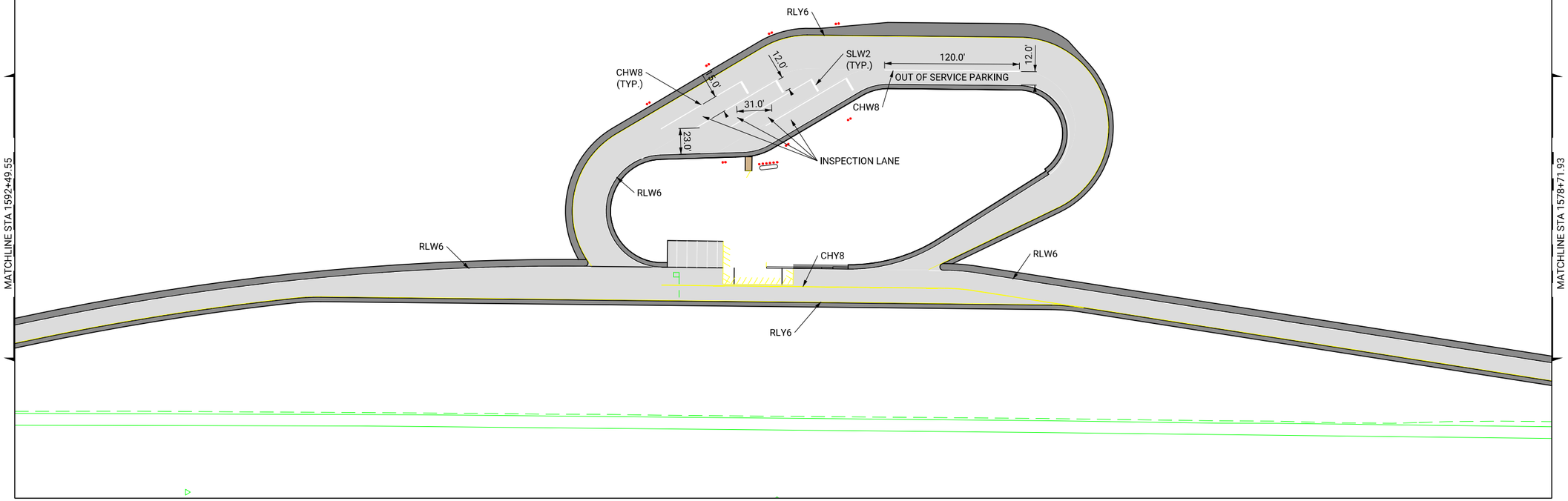
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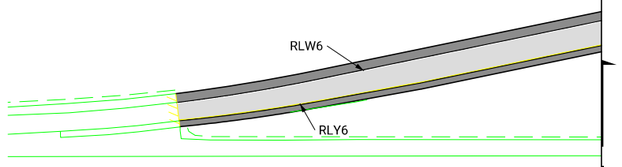
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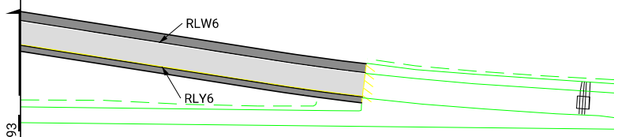
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INTERSTATE 35

MATCHLINE STA 1592+49.55



MATCHLINE STA 1578+71.93

INTERSTATE 35

0 50 FEET

PAVEMENT MARKINGS
FINAL PROPOSED

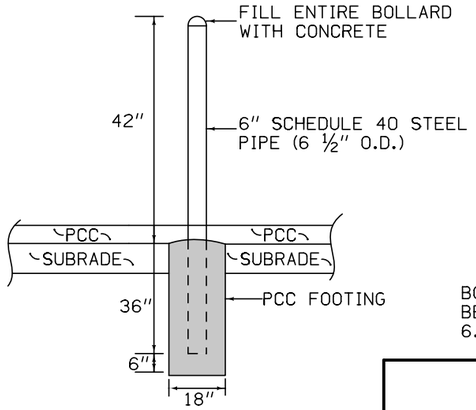
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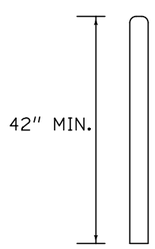
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FIGURE FOTH D-1 | SHEET 1 OF 1

BOLLARD

YELLOW
BOLLARD SLEEVE





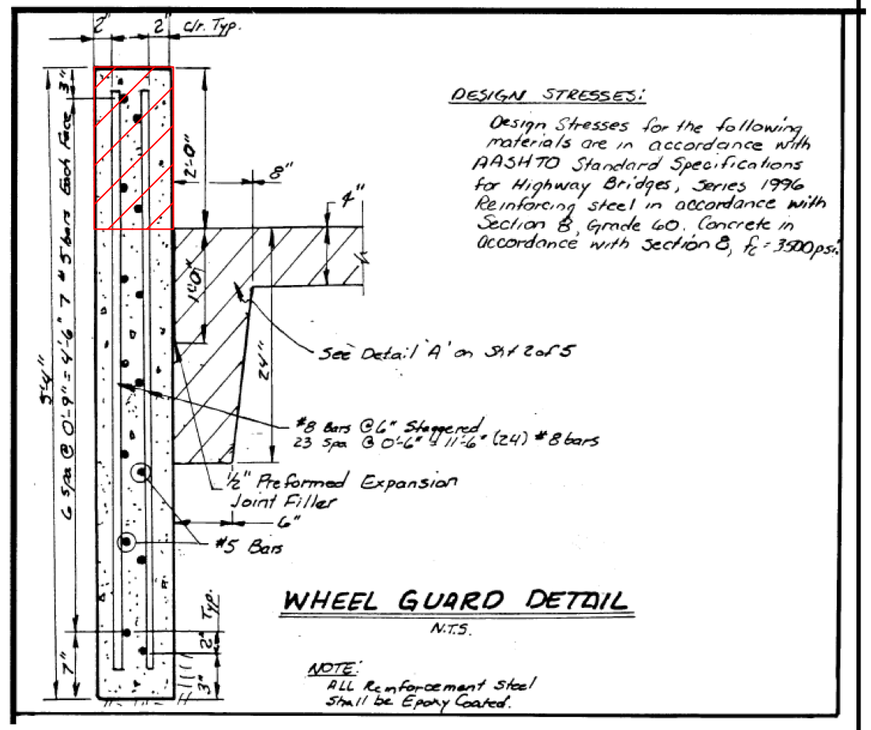
BOLLARD SLEEVE/COVER SHALL BE ⅛"THICK PVC OR HDPE WITH 6.625" I.D. AND 6.875" O.D.

REVISION	
NEW	5/3/17

FIGURE D-1

SHEET 1 OF 1

BOLLARD & SLEEVE DETAILS



DESIGN STRESSES:

Design Stresses for the following materials are in accordance with AASHTO Standard Specifications for Highway Bridges, Series 1996 Reinforcing steel in accordance with Section 8, Grade 60. Concrete in Accordance with Section 8, f'_c = 3500 psi.

WHEEL GUARD DETAIL

N.T.S.

NOTE:
All Reinforcement Steel Shall be Epoxy Coated.

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER U.2	

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SCALE HOUSE

DRT

TILE

END BA-105 AND FOOTING
OFFSET ATENUATOR WITH NO ATTACHMENT
TO CONCRETE BARRIER PER MANUFACTURER'S
INSTRUCTIONS
STA 1585+17.88

END BA-102 AND FOOTING
BEGIN BA-105 AND FOOTING
STA 1585+27.88

END BA-102
BEGIN BA-102 AND FOOTING
STA 1585+64.88

BEGIN BA-102
STA 1585+76.88

49.0'

PLACE BA-102 ON TOP
OF REMAINING WHEEL GUARD

BA-102

BA-105

CRASH CUSHION

WEIGH SCALE
APPROACH
PAVEMENT

WEIGH SCALE

WEIGH SCALE
APPROACH
PAVEMENT

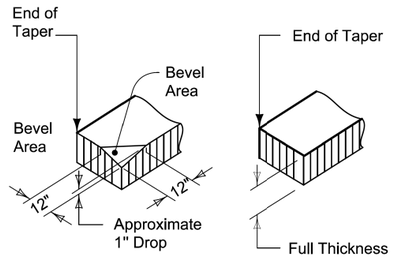
TILE

0 5
FEET

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER U.3

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7101
10-19-10

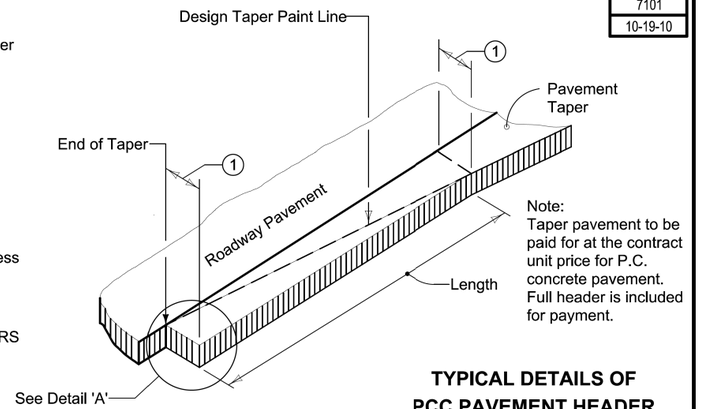


DETAIL 'A'

FOR
GRANULAR SHOULDERS

DETAIL 'A'

FOR
PAVED SHOULDERS

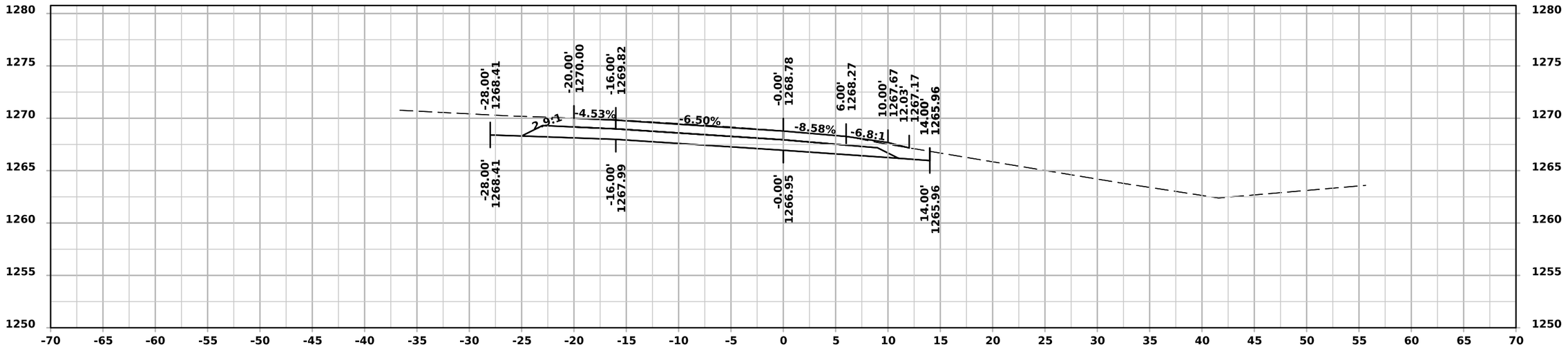


Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

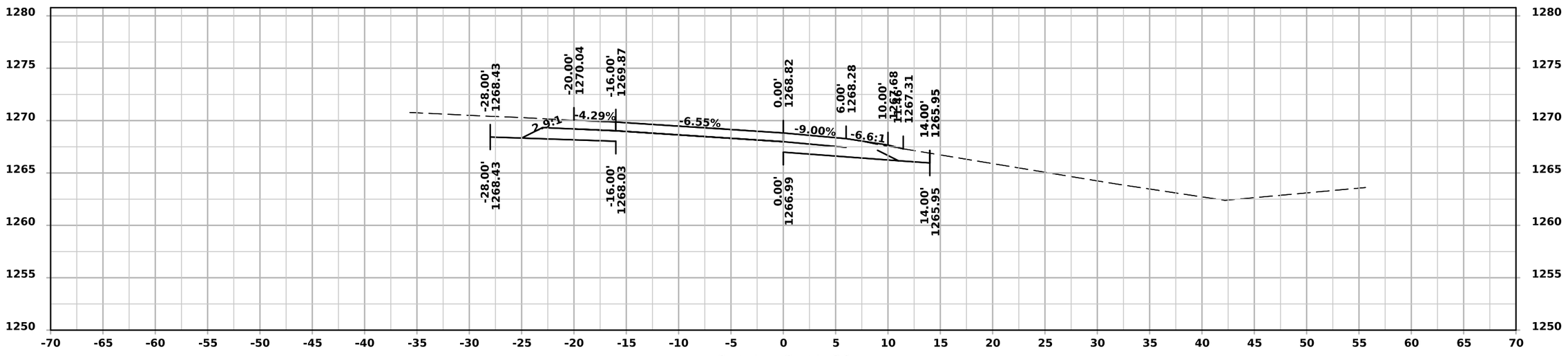
(1) Normal width is 2'-0". Match design shoulder width when present (See Typical 7154A).

TYPICAL DETAILS OF PCC PAVEMENT HEADER

ML - RAMPA



STA 1576+50.00

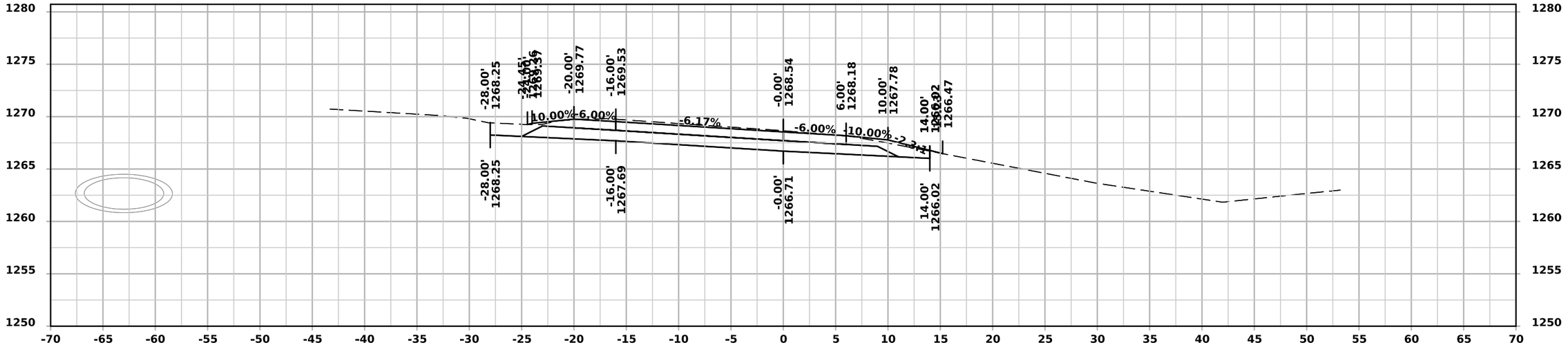


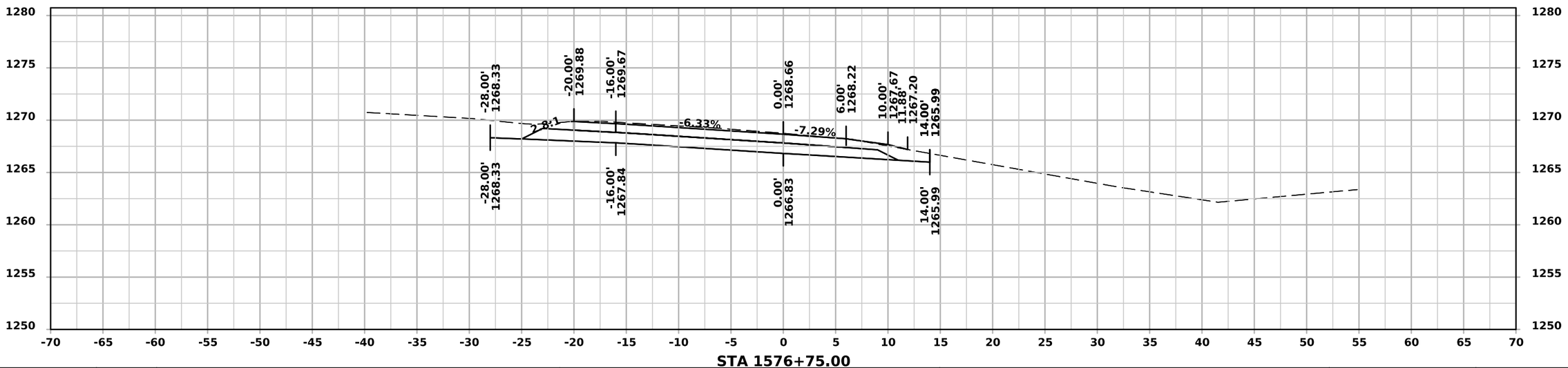
STA 1576+41.86

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER W.1	

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ML - RAMPA

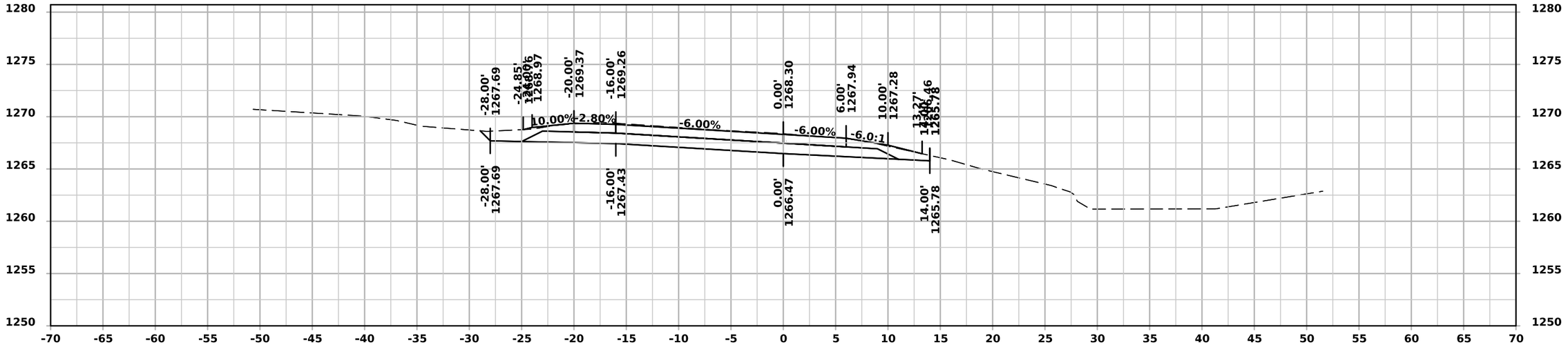




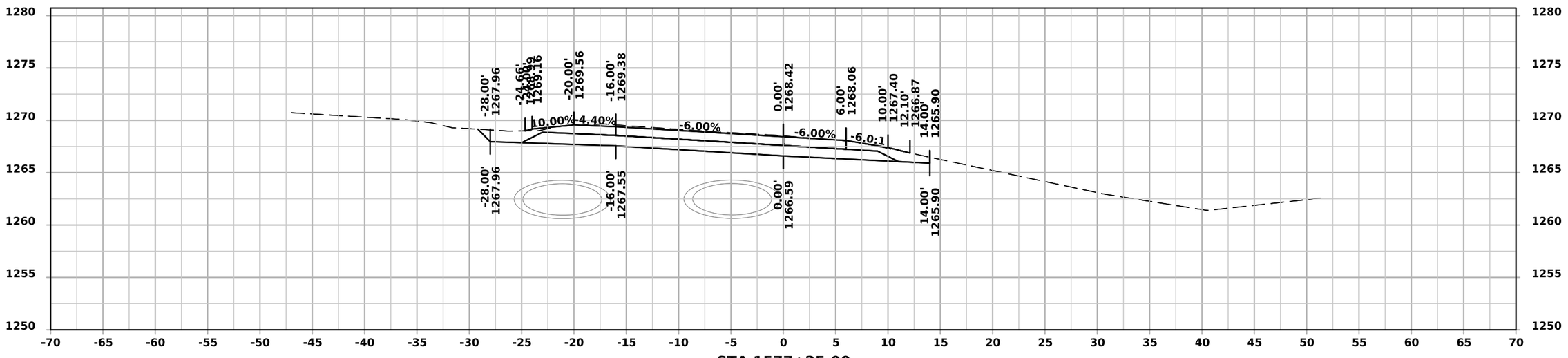
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ML - RAMPA



STA 1577+50.00

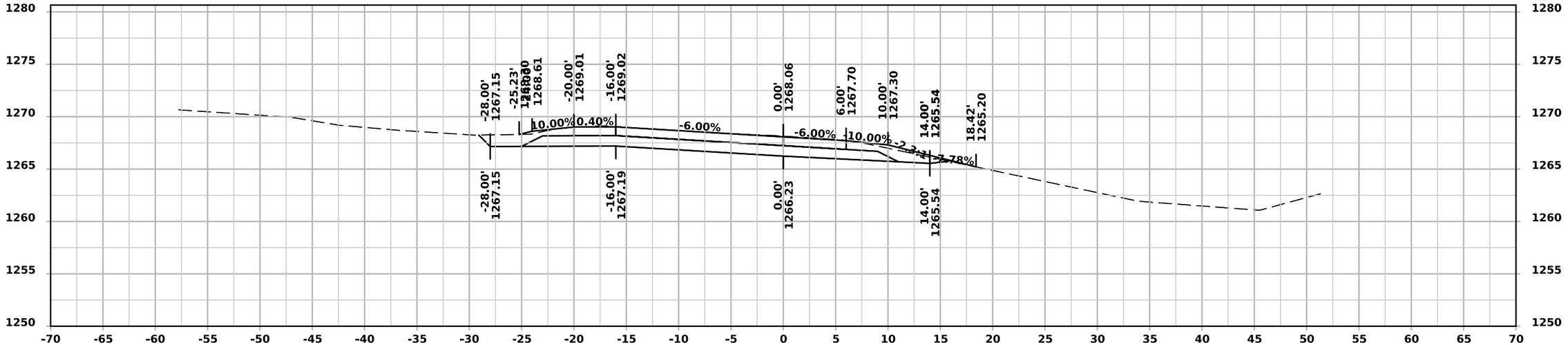


STA 1577+25.00

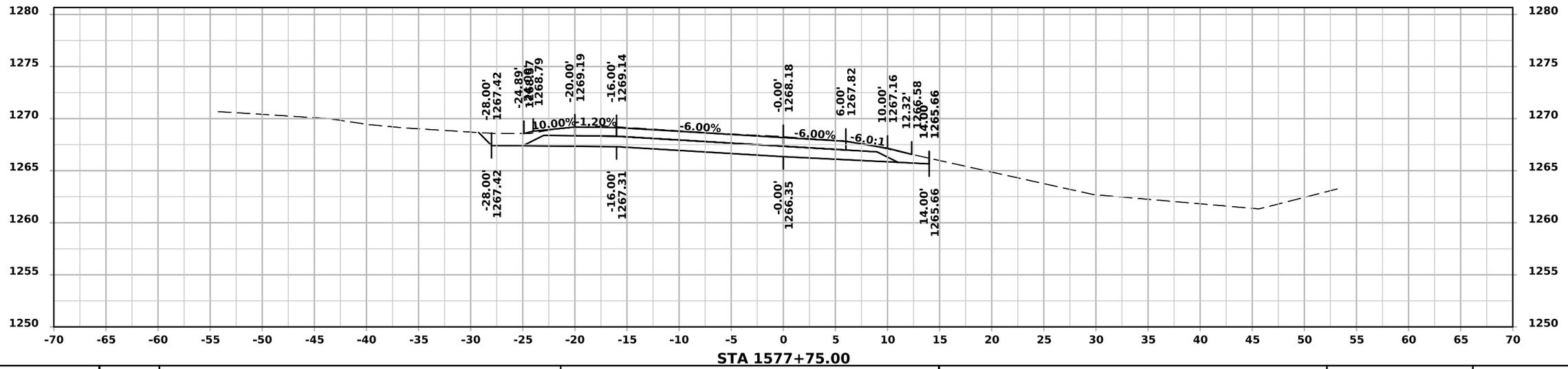
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ML - RAMPA



STA 1578+00.00

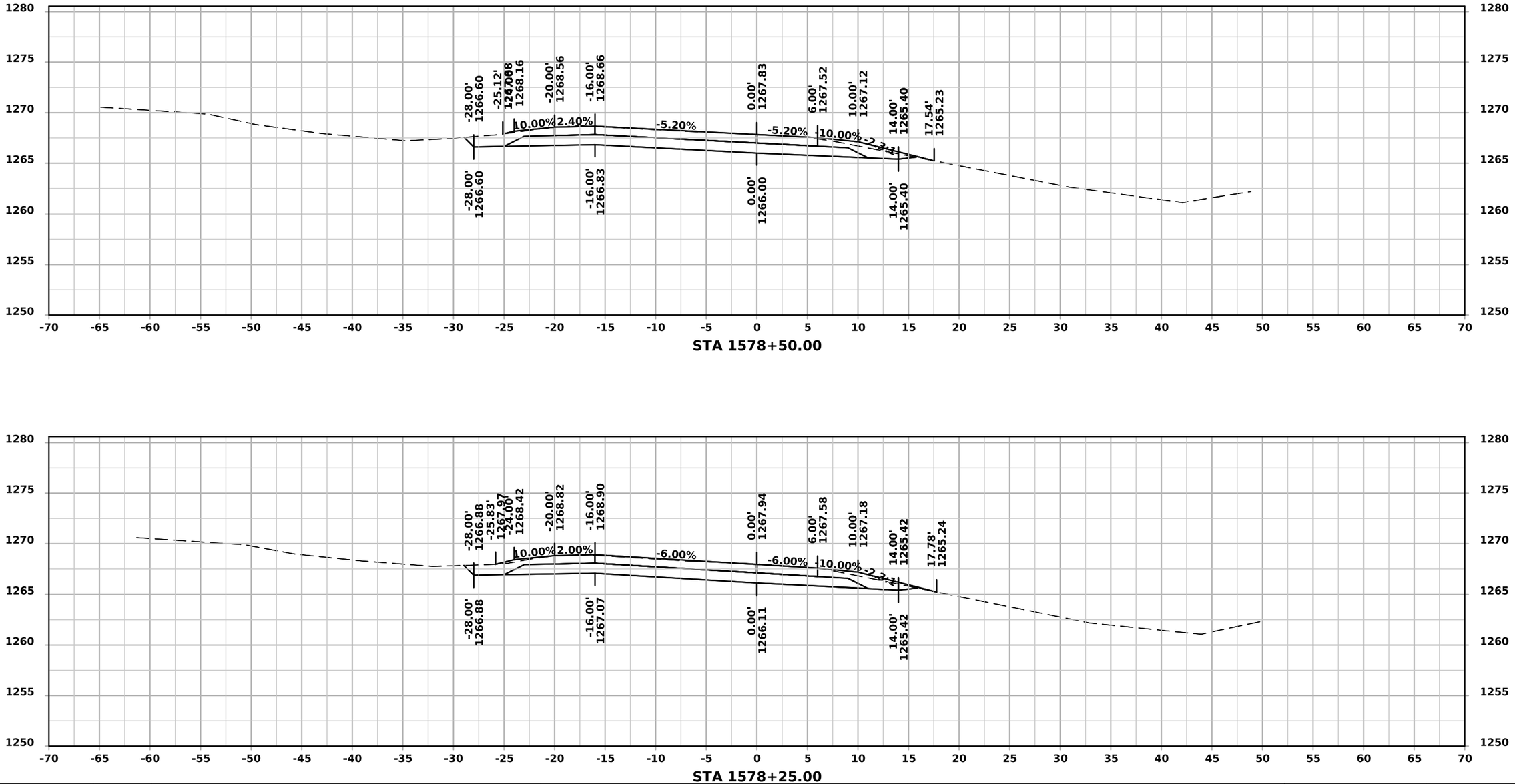


STA 1577+75.00

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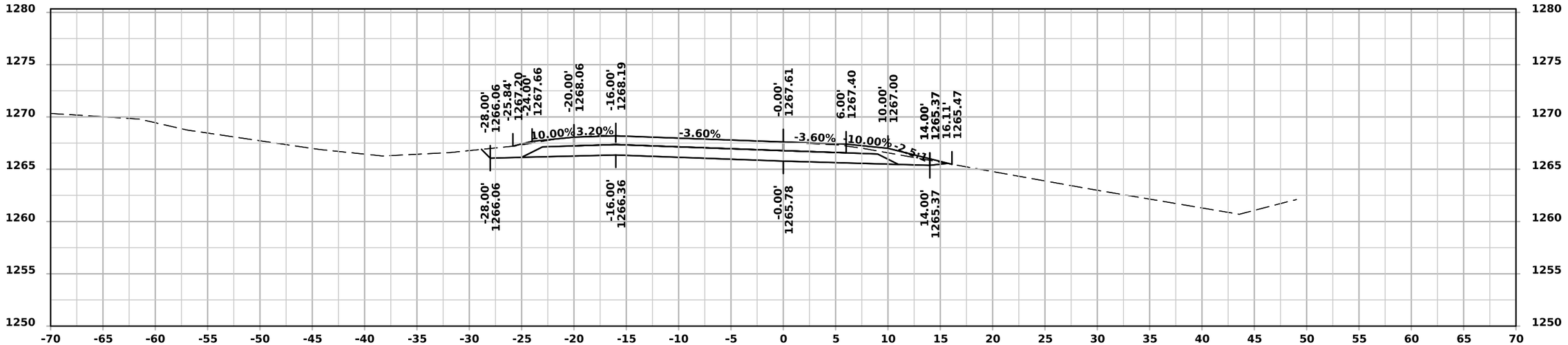
ML - RAMPA



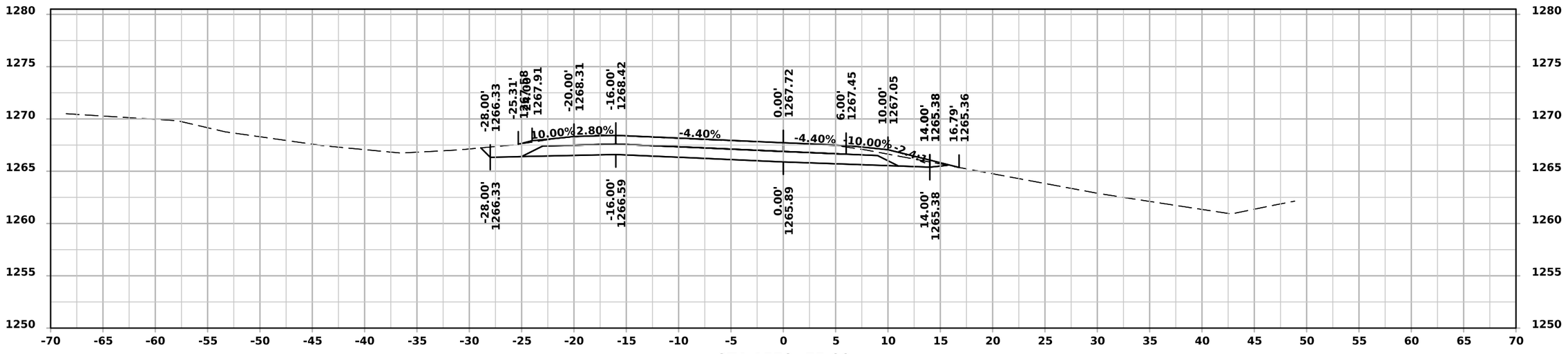
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ML - RAMPA



STA 1579+00.00

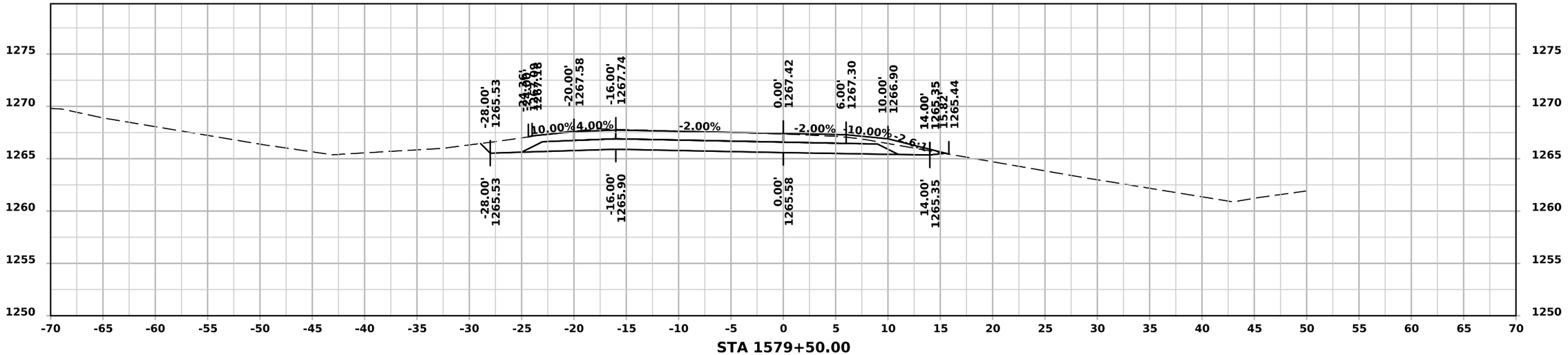


STA 1578+75.00

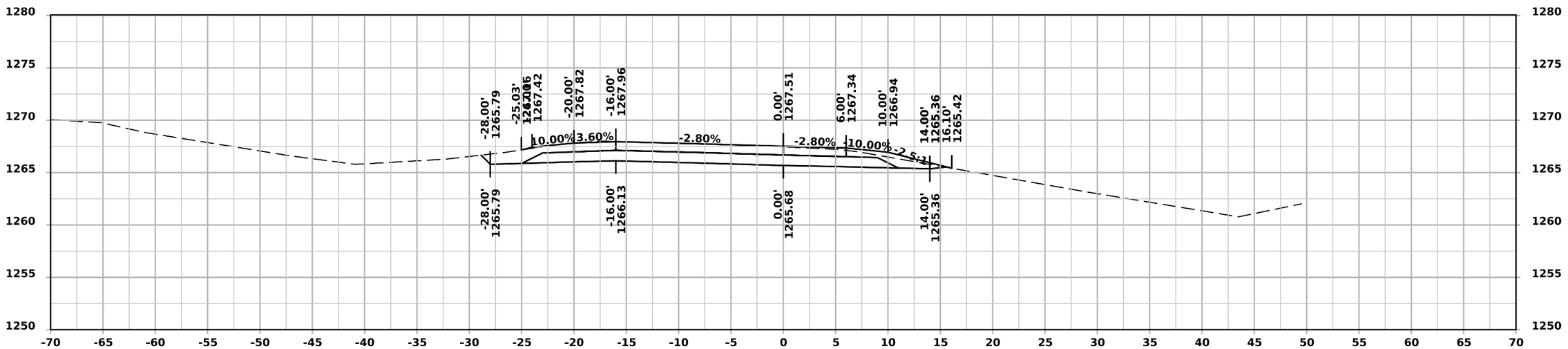
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ML - RAMPA



STA 1579+50.00

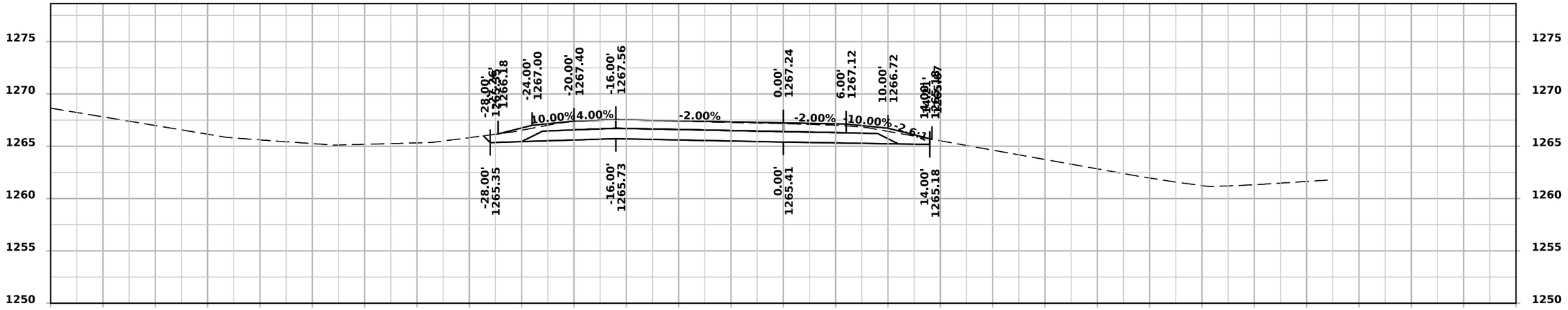


STA 1579+25.00

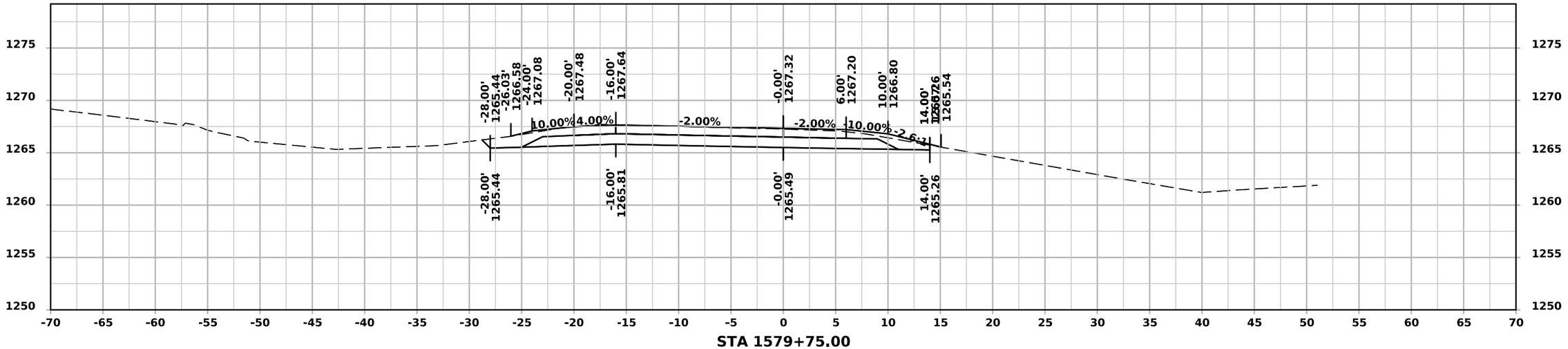
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ML - RAMPA



STA 1580+00.00

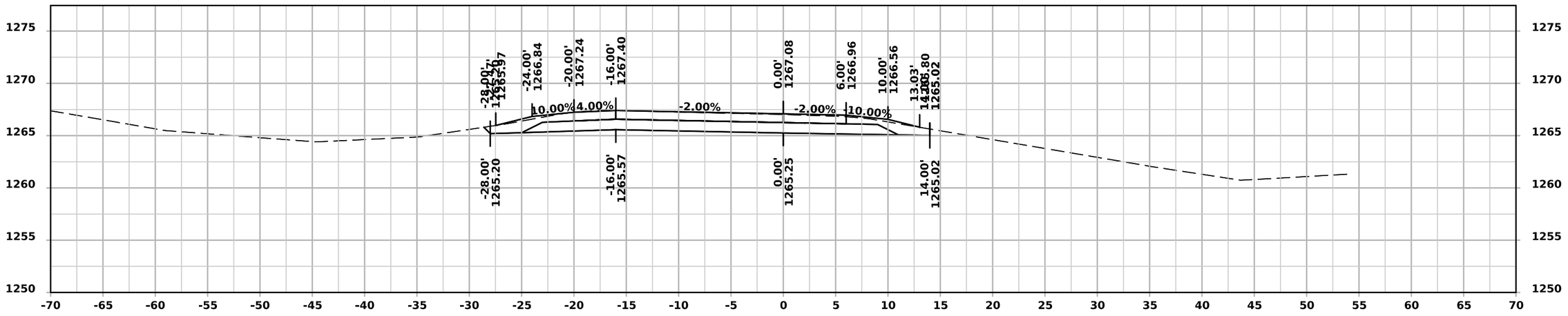


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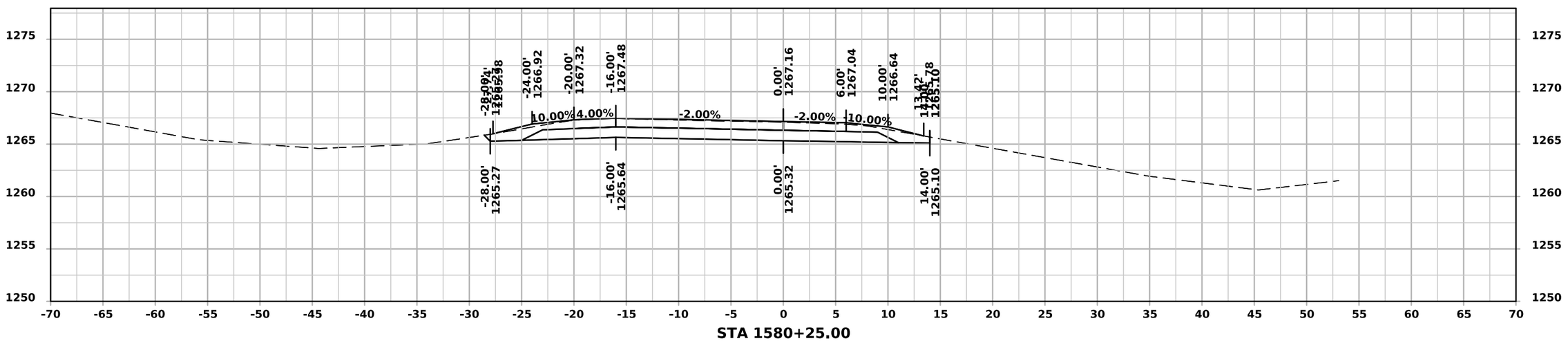
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ML - RAMPA



STA 1580+50.00

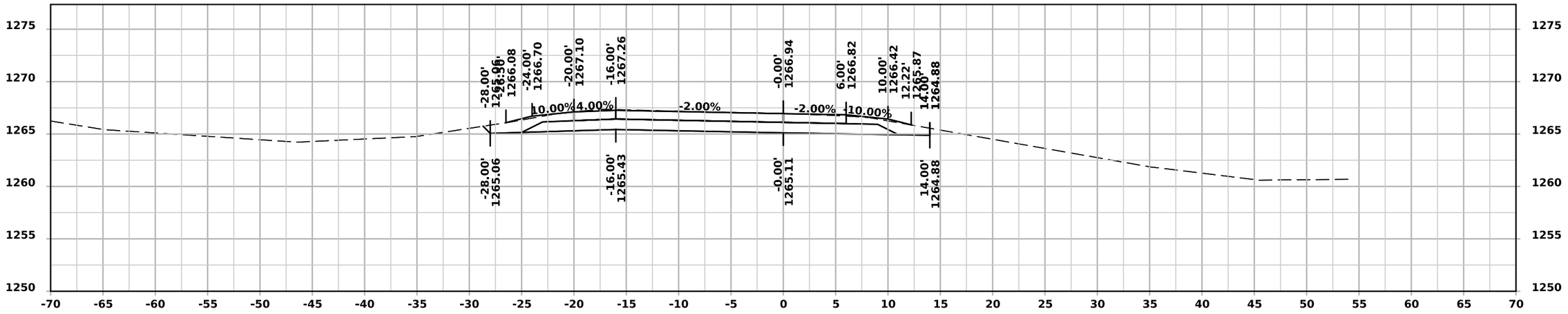


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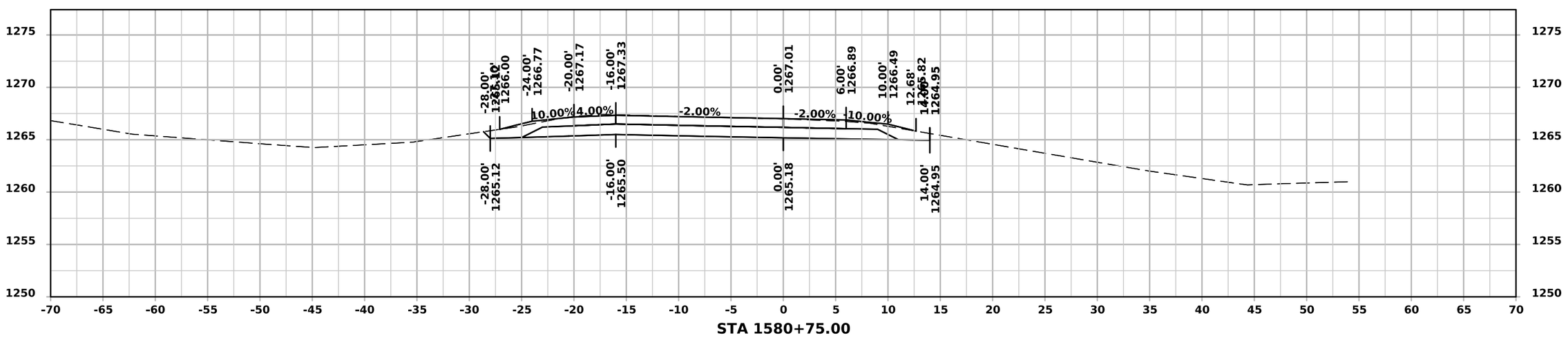
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ML - RAMPA



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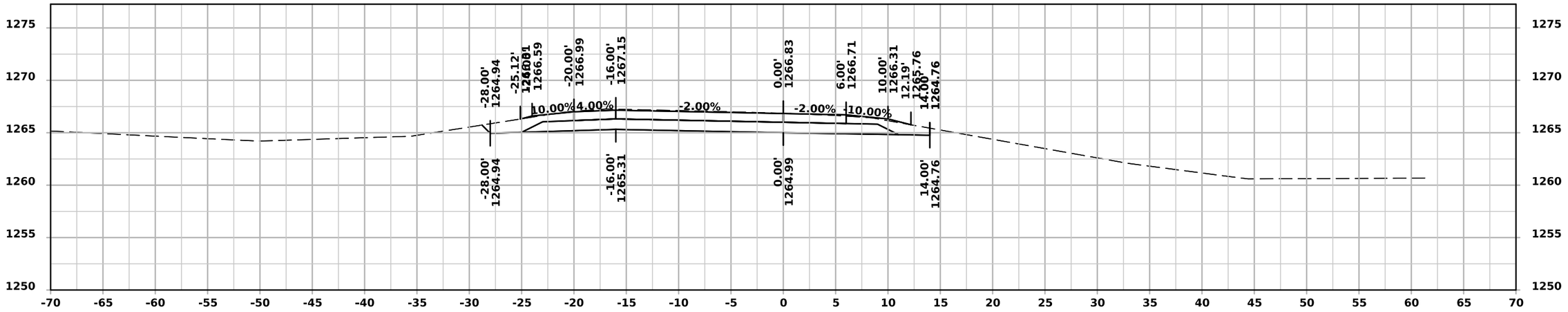


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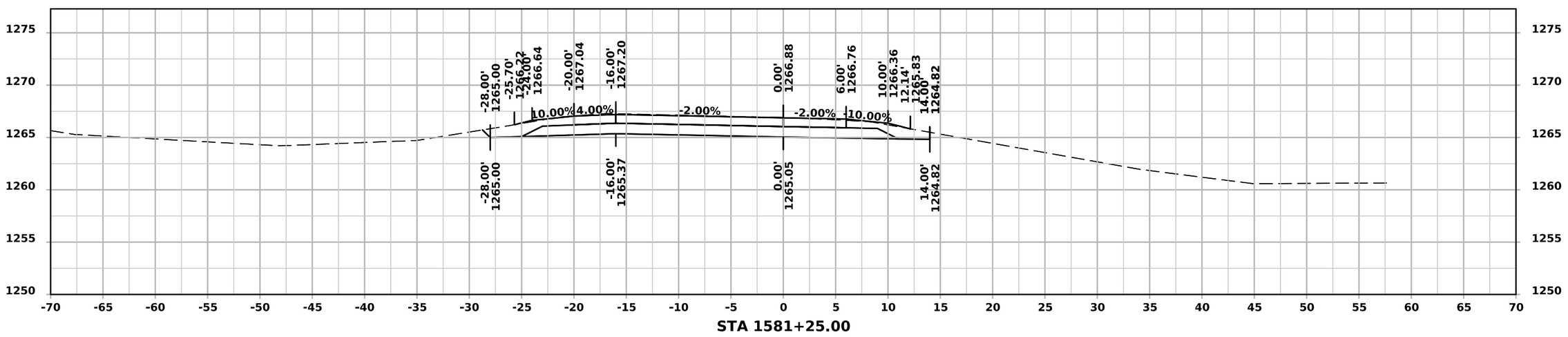
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ML - RAMPA



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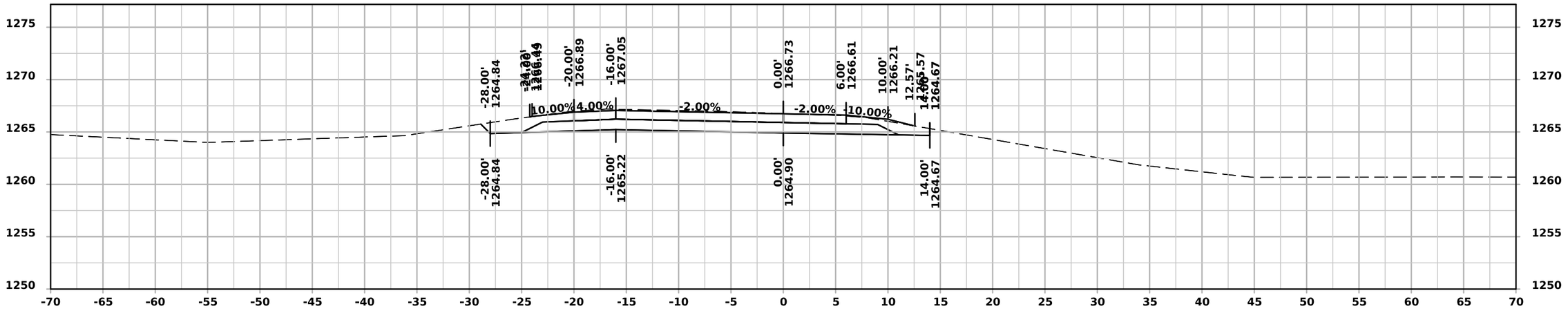


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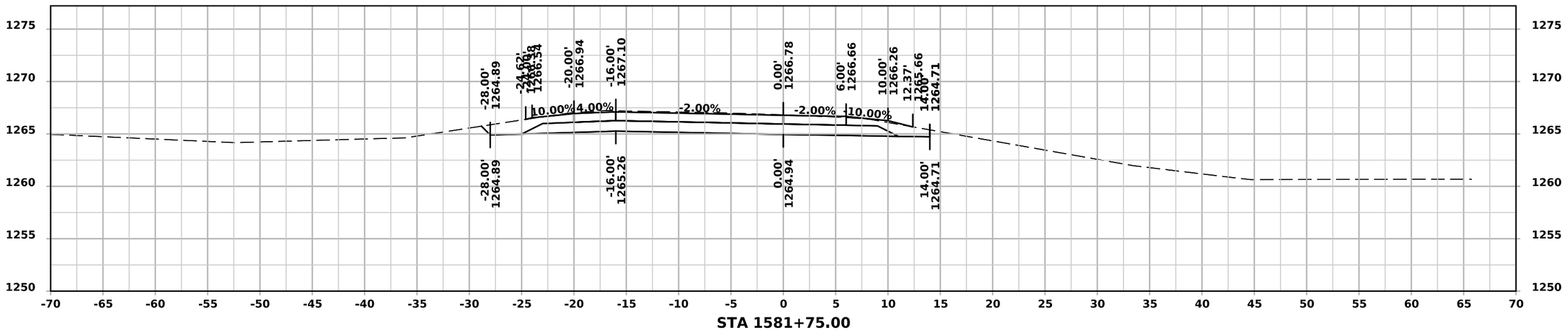
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ML - RAMPA



STA 1582+00.00

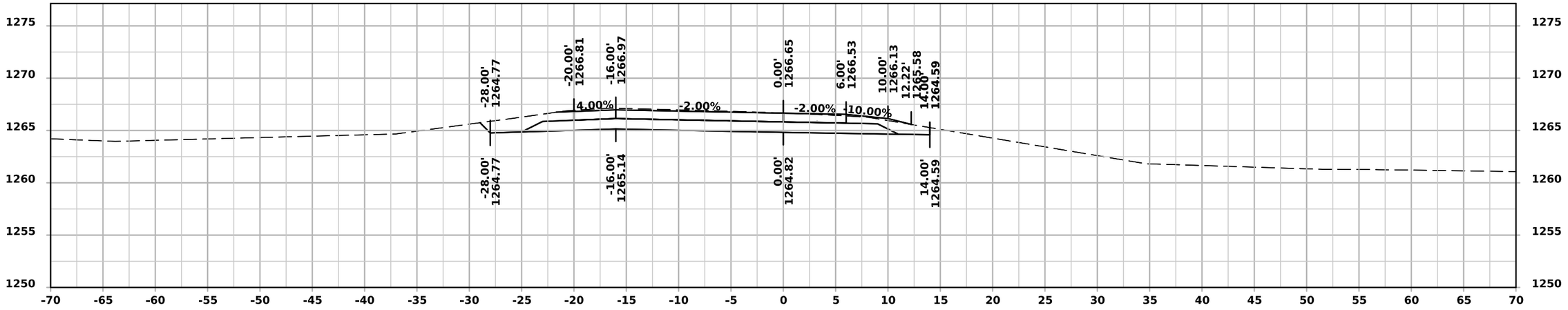


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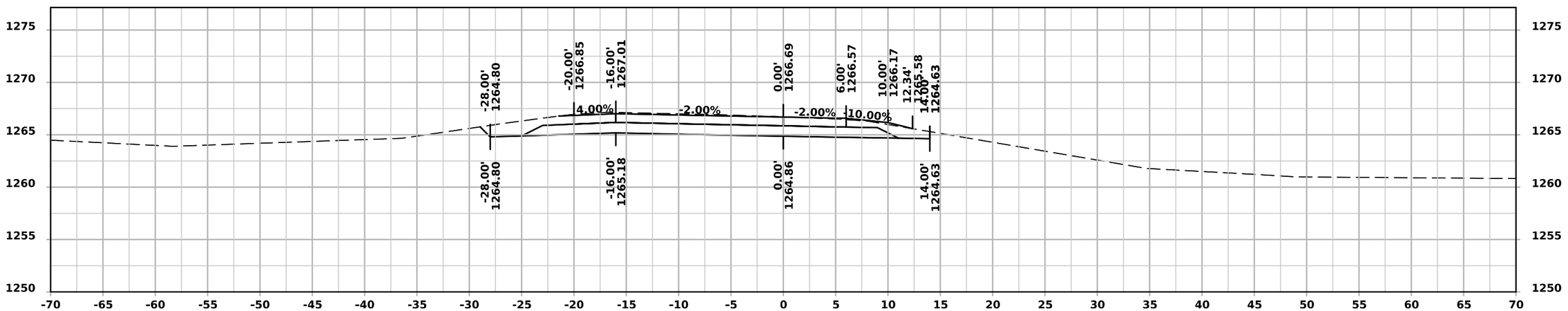
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ML - RAMPA



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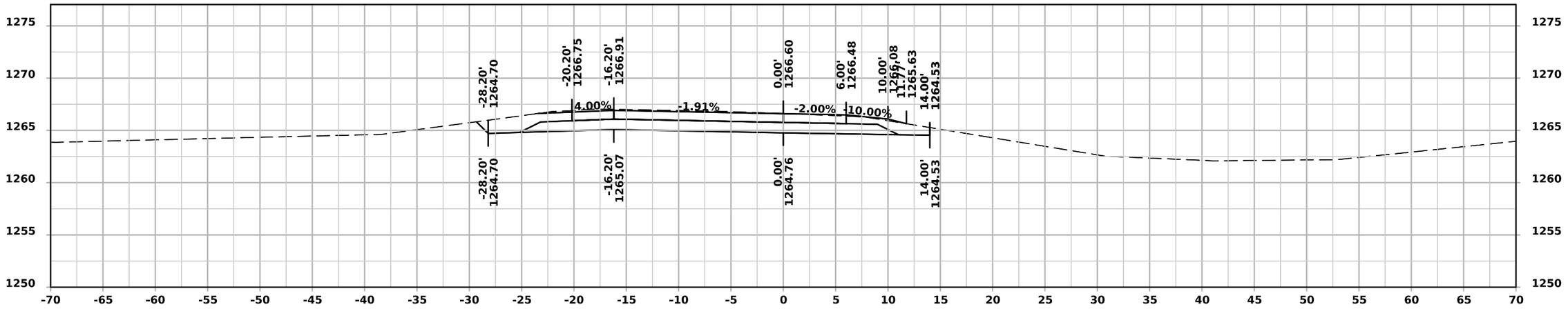


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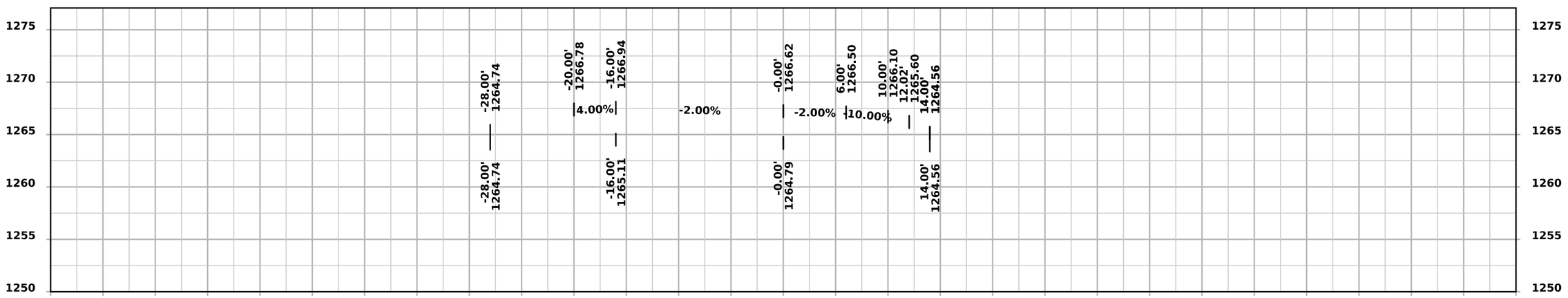
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ML - RAMPA



STA 1583+00.00

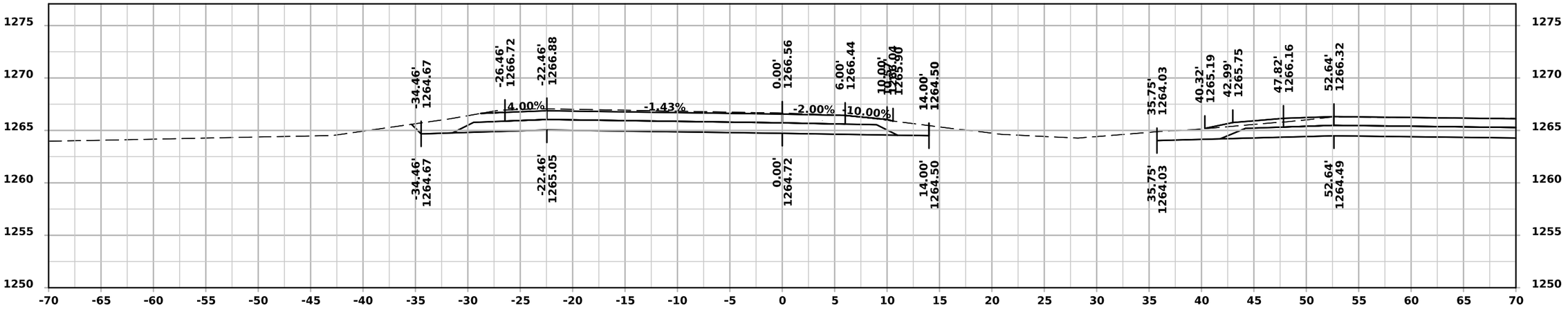


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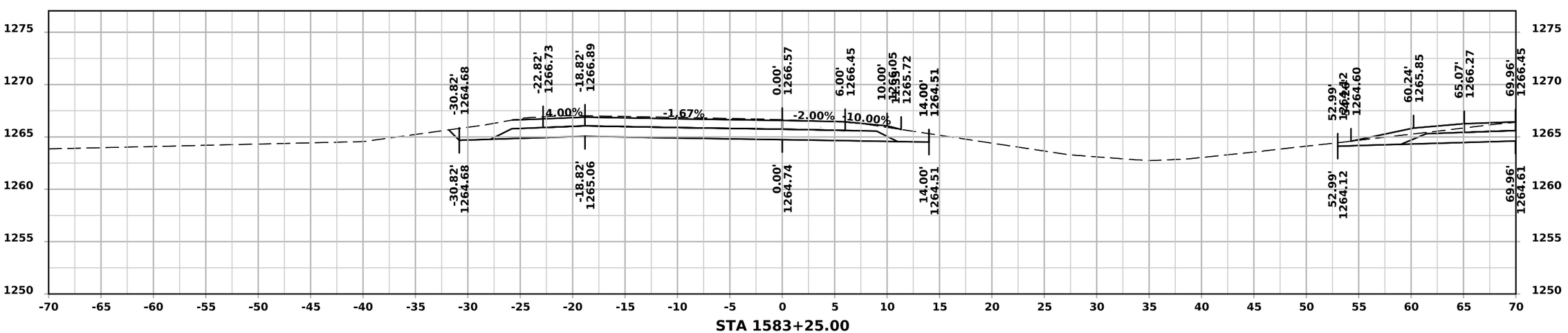
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ML - RAMPA



STA 1583+50.00

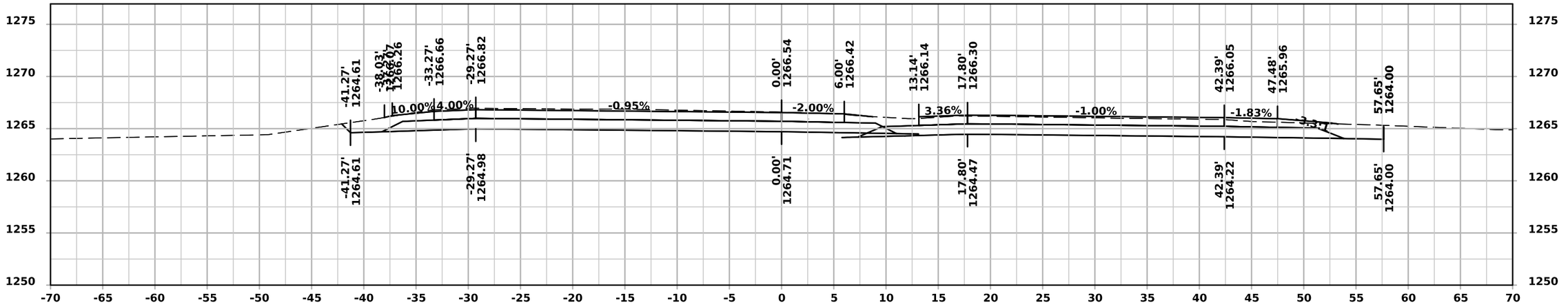


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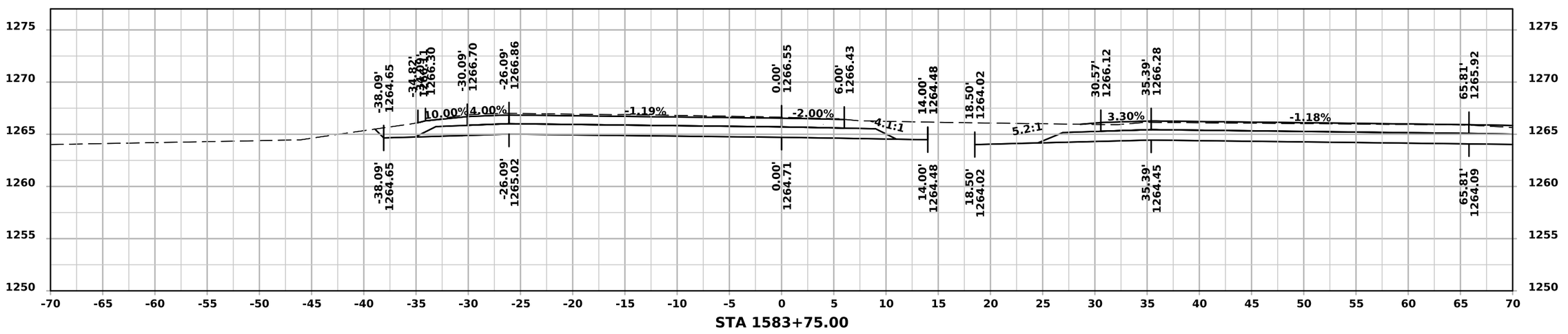
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ML - RAMPA



STA 1584+00.00

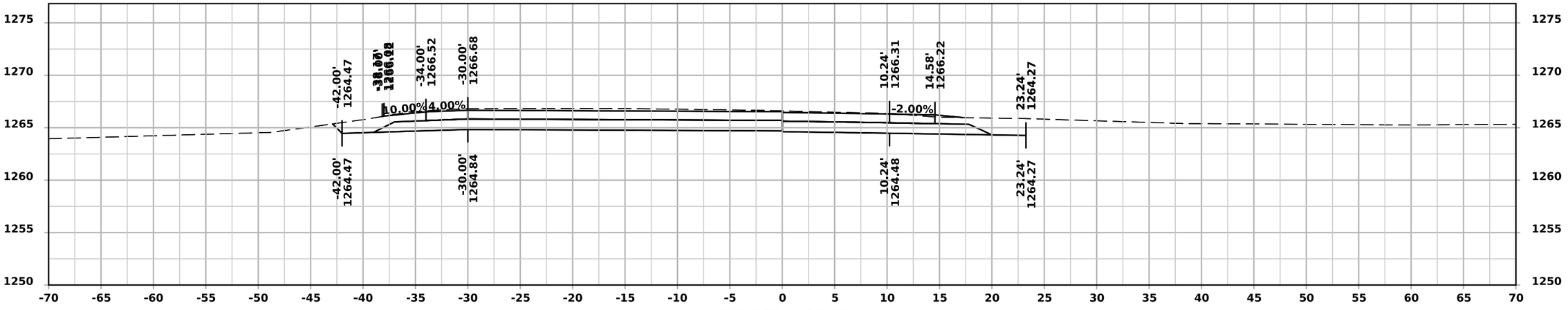


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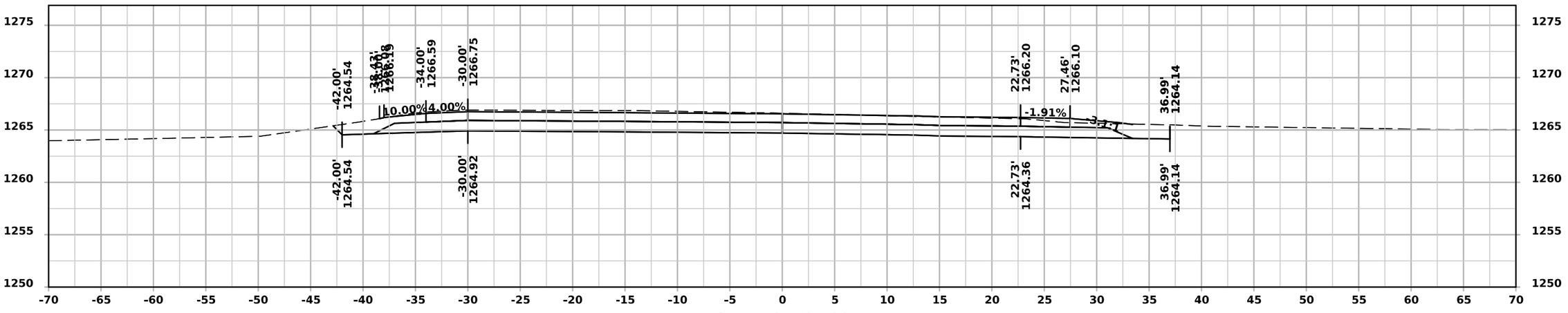
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ML - RAMPA



STA 1584+50.00

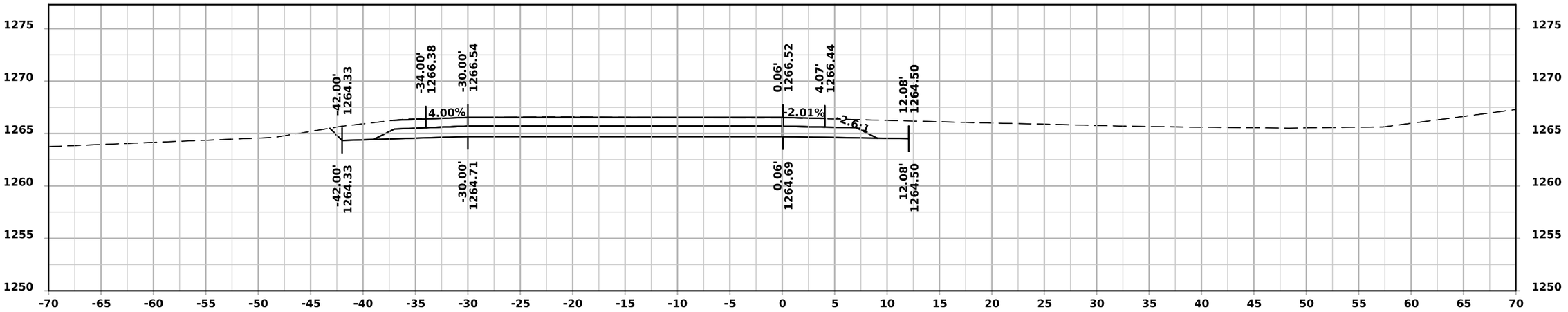


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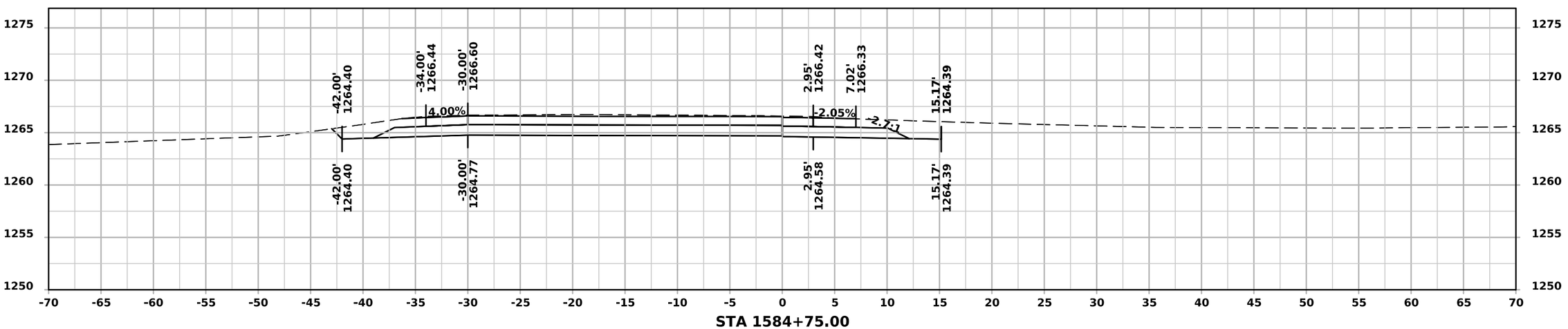
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ML - RAMPA



STA 1585+00.00

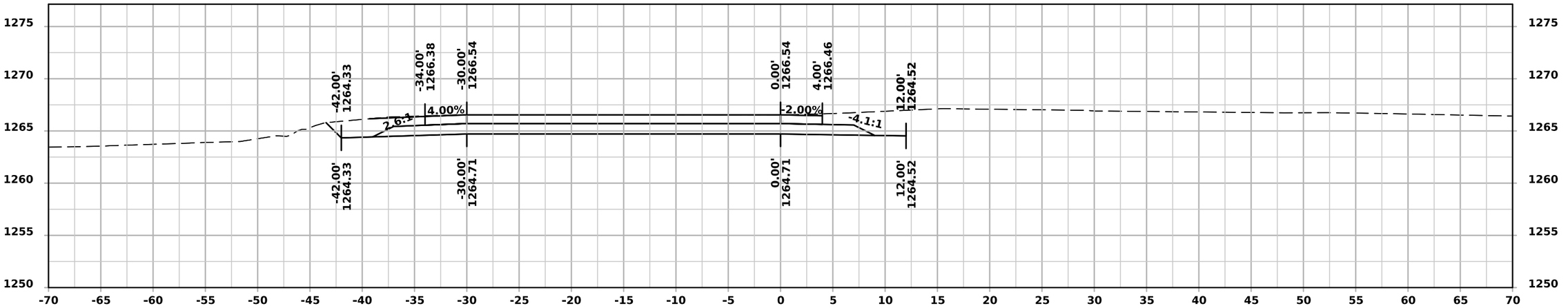


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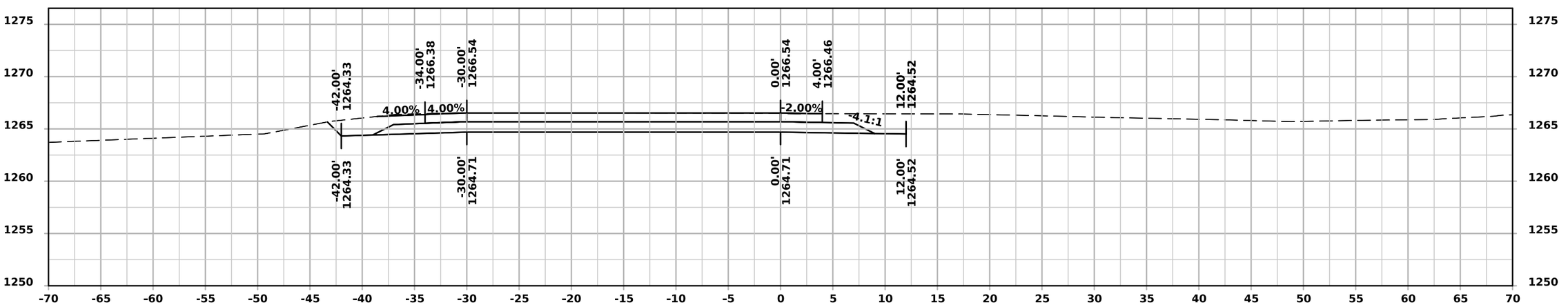
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ML - RAMPA



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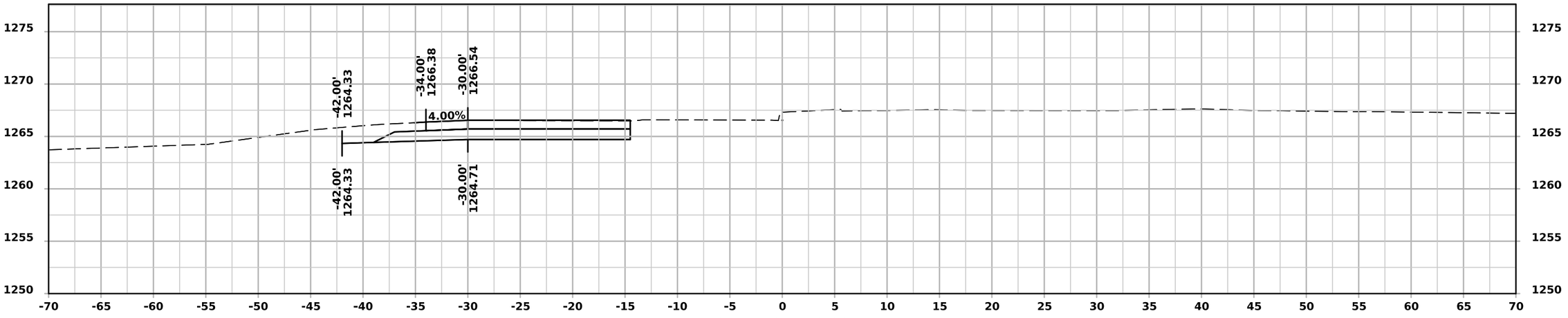


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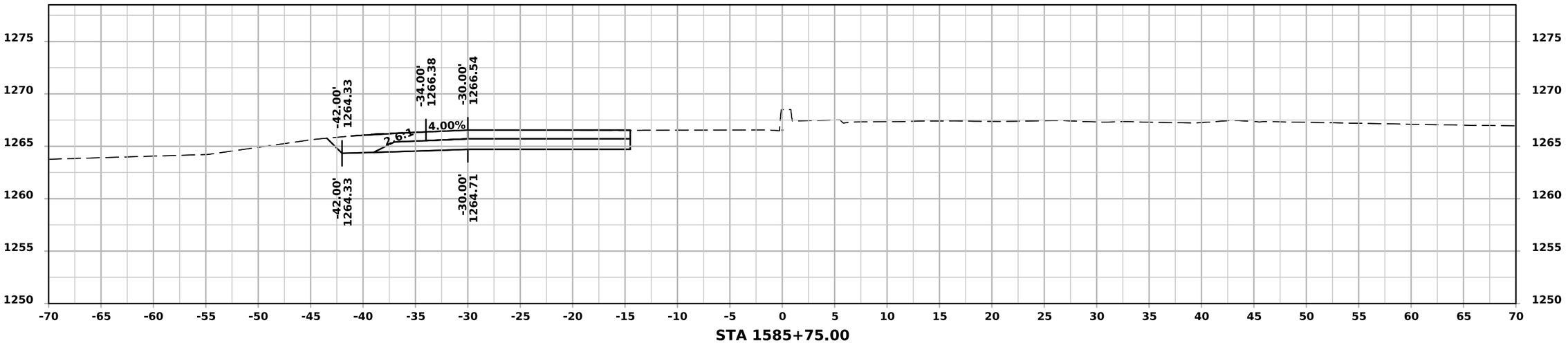
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ML - RAMPA



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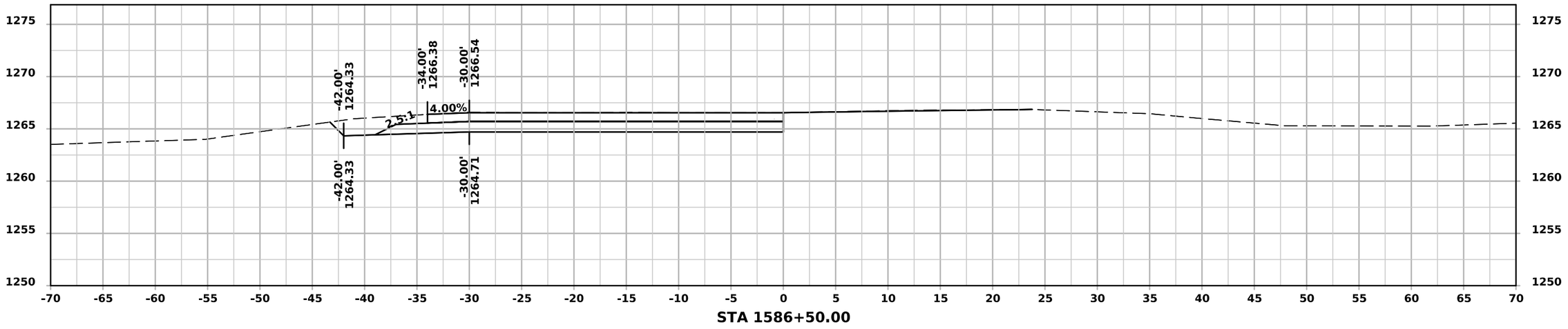


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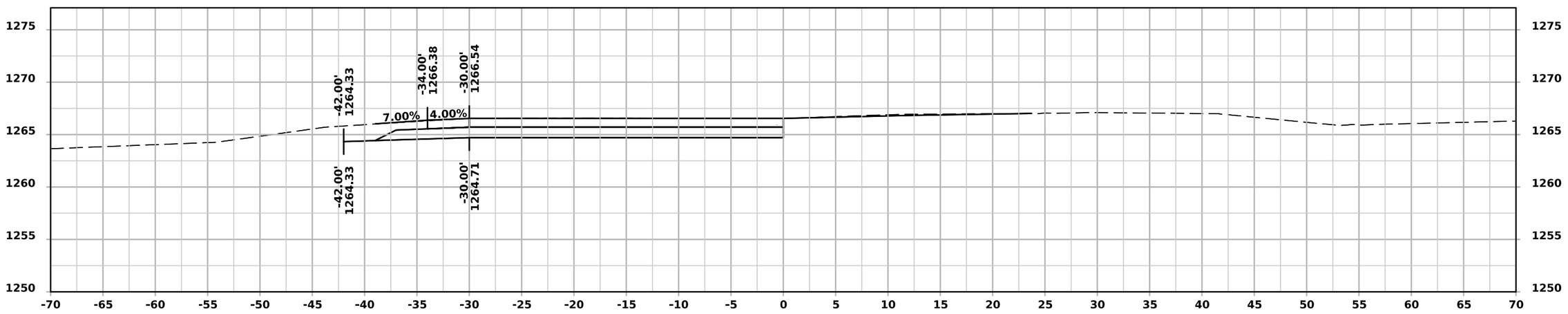
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ML - RAMPA



STA 1586+50.00

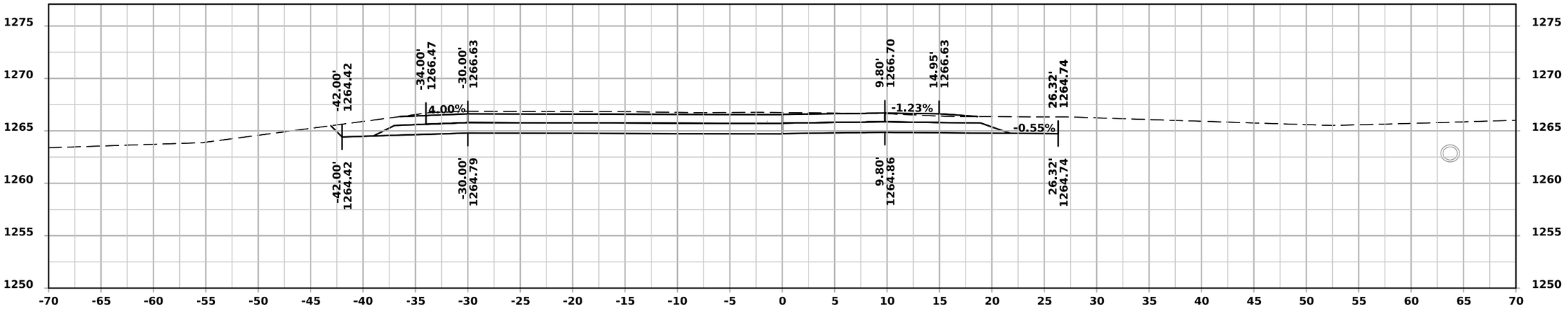


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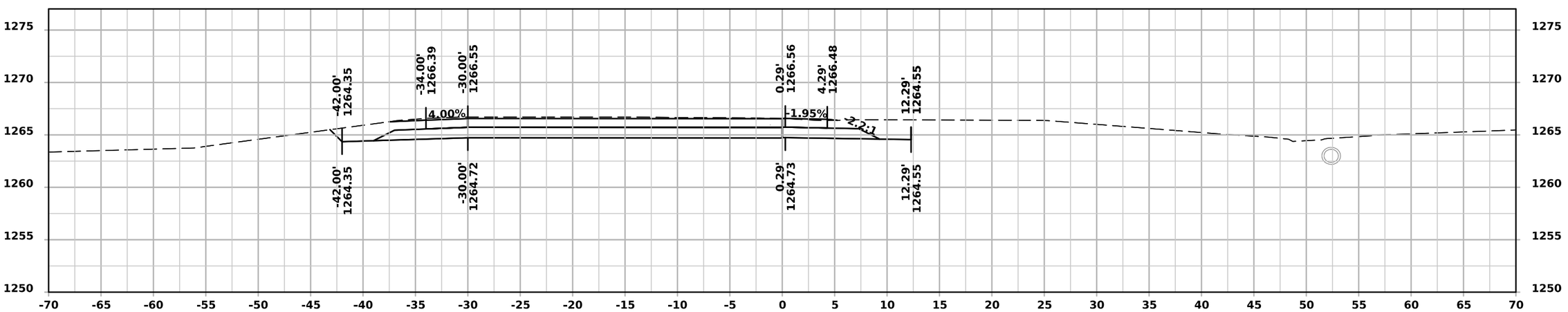
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ML - RAMPA



STA 1587+00.00

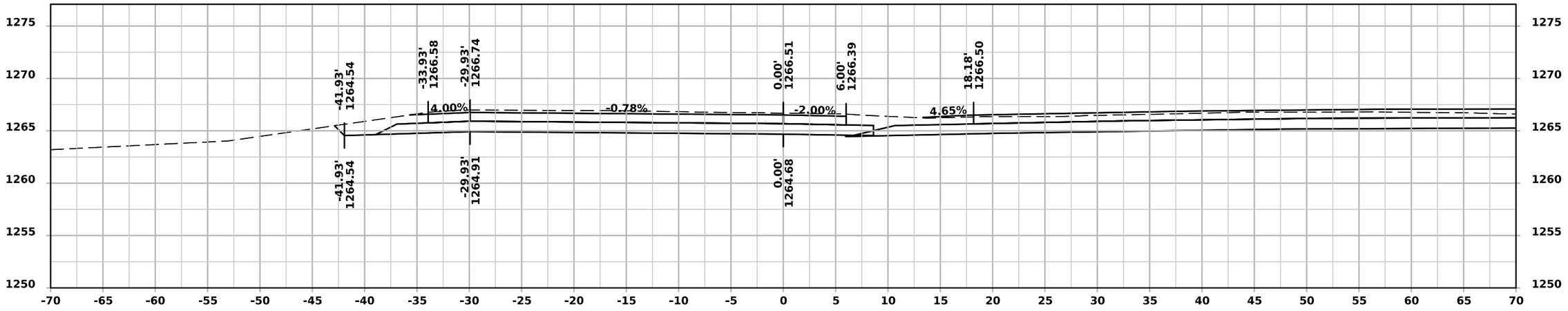


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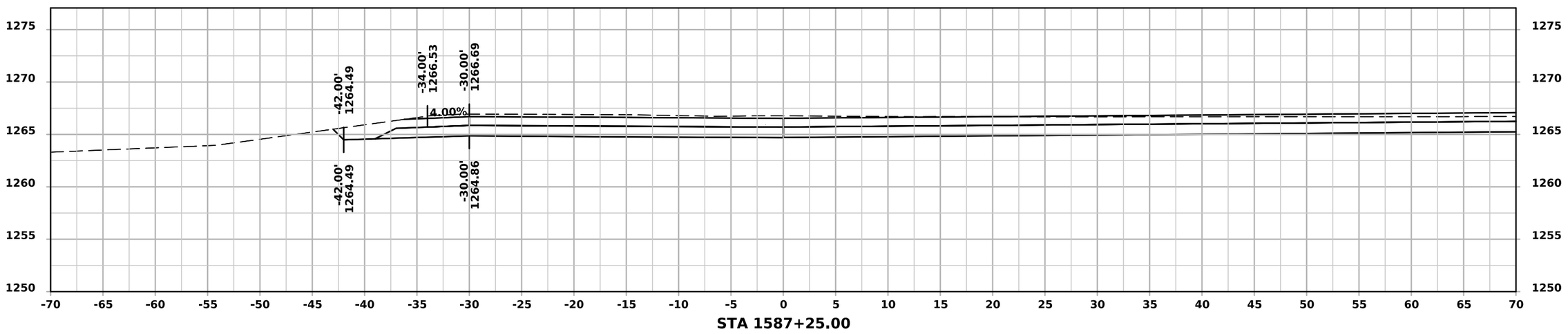
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ML - RAMPA



STA 1587+50.00

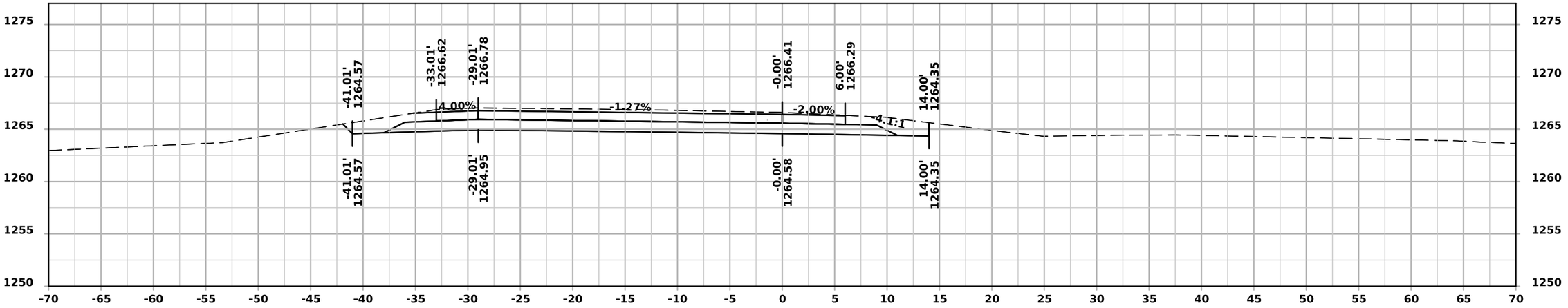


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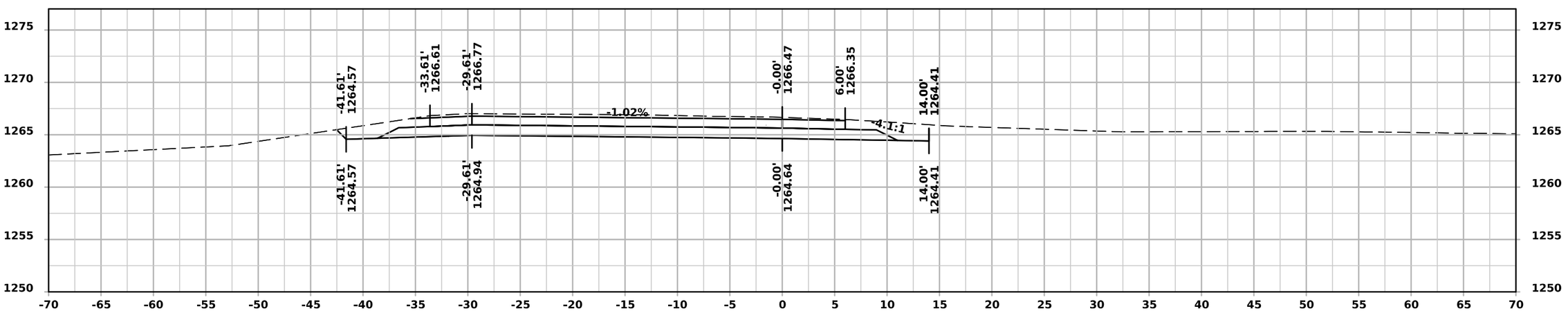
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ML - RAMPA



STA 1588+00.00

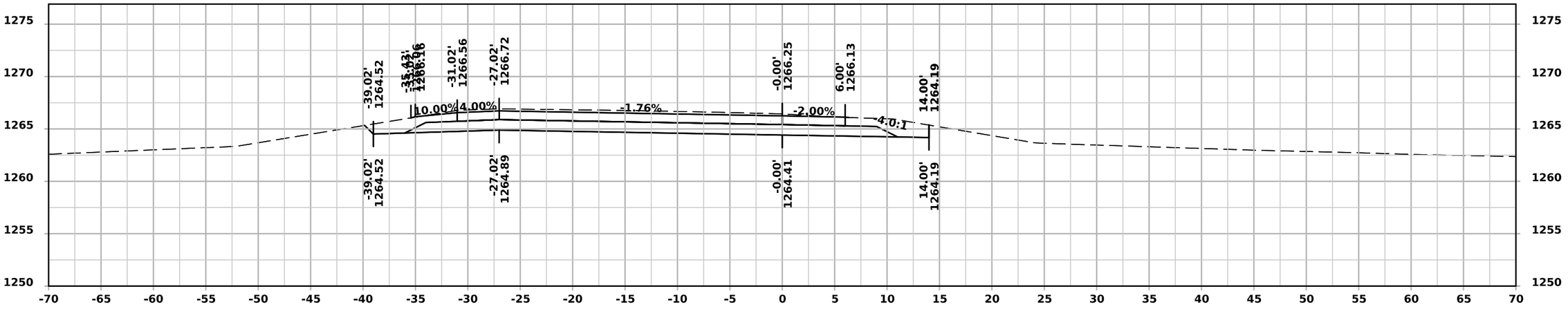


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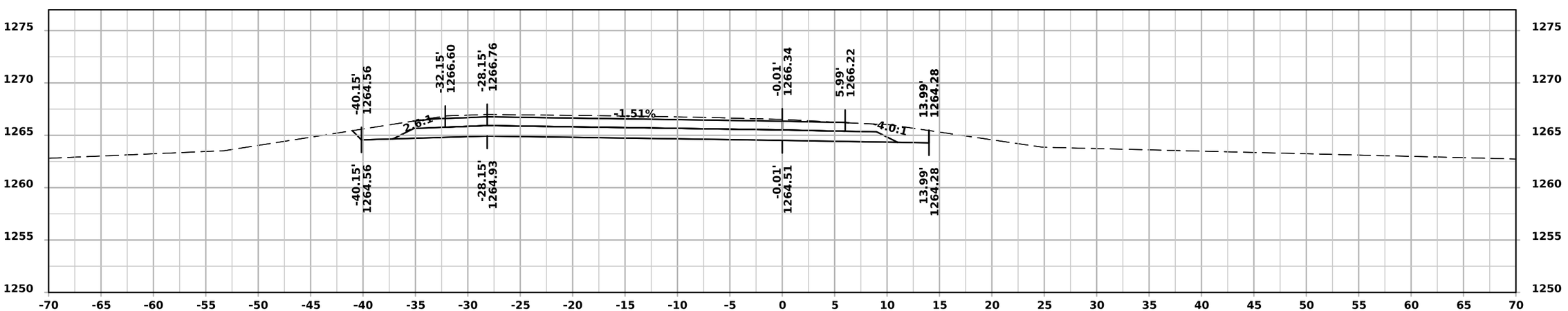
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ML - RAMPA



STA 1588+50.00

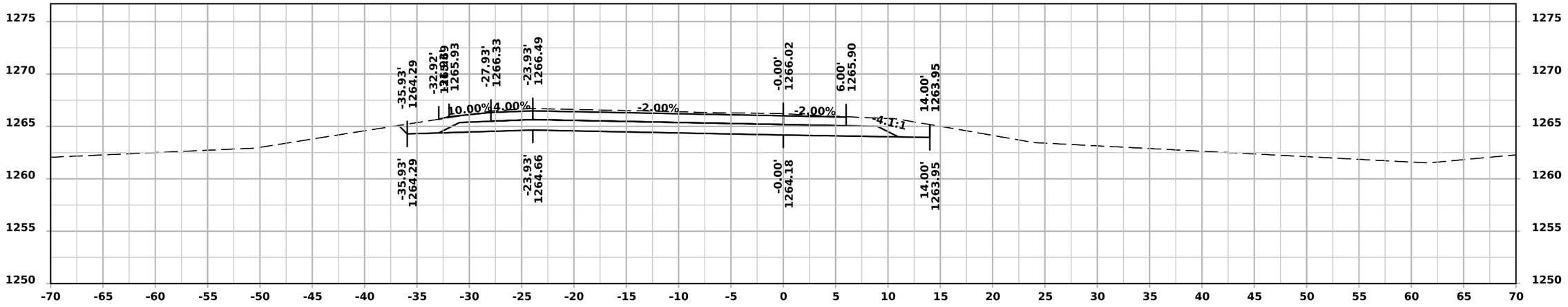


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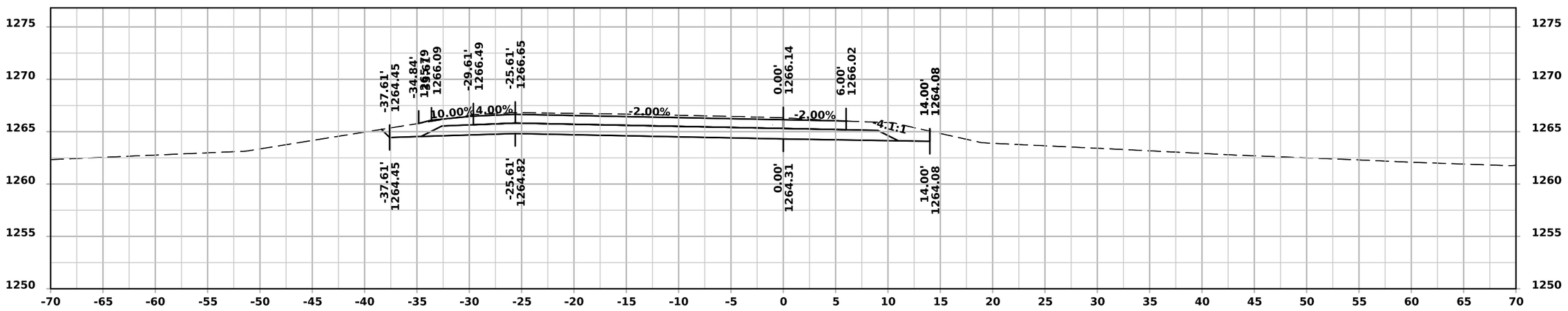
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ML - RAMPA



STA 1589+00.00

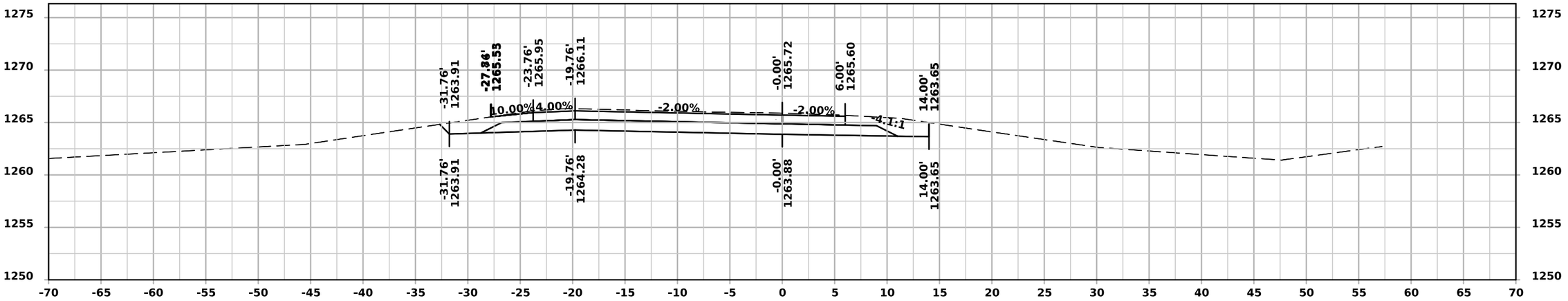


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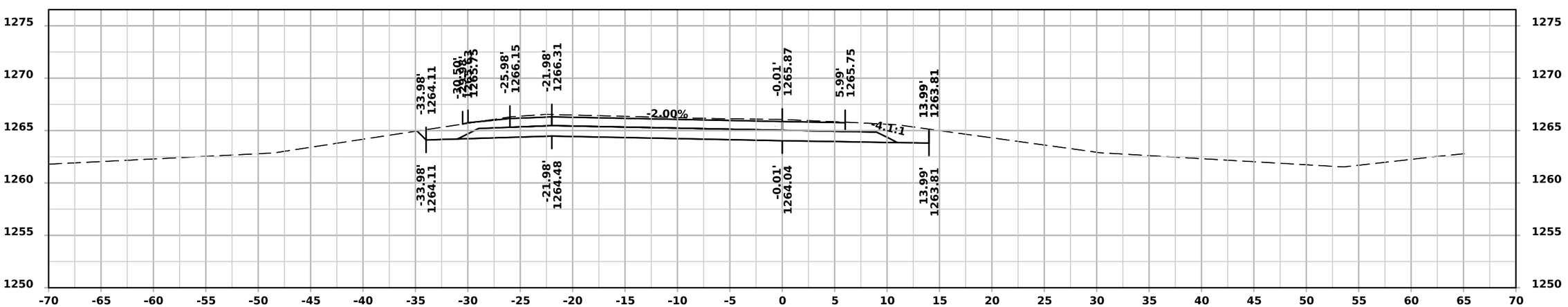
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ML - RAMPA



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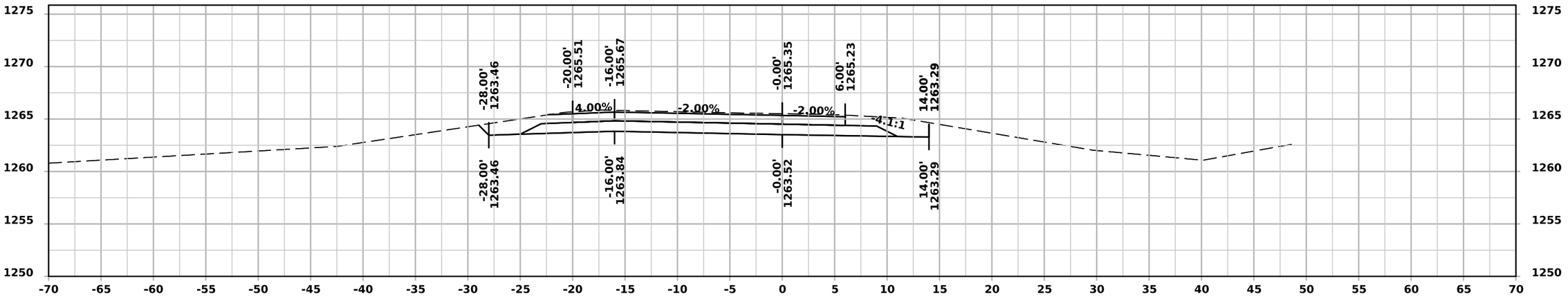


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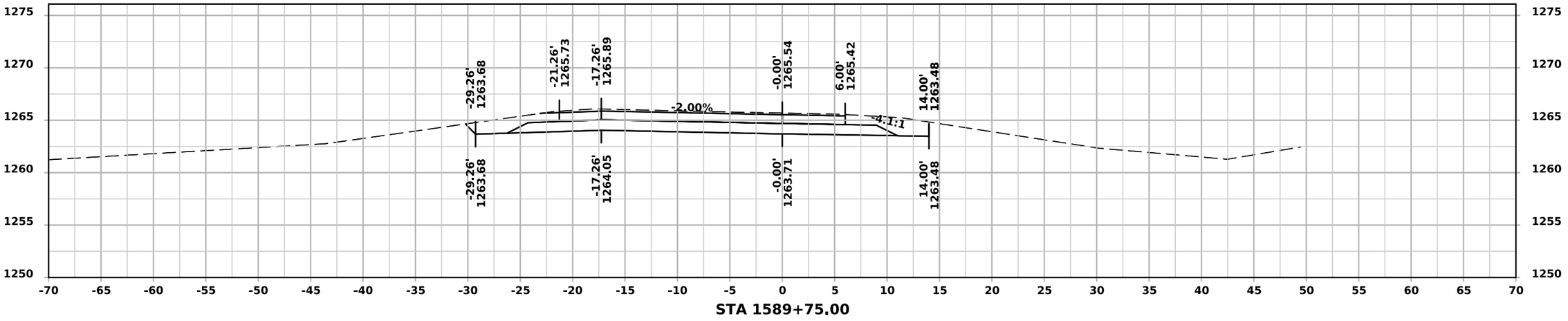
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ML - RAMPA



STA 1590+00.00

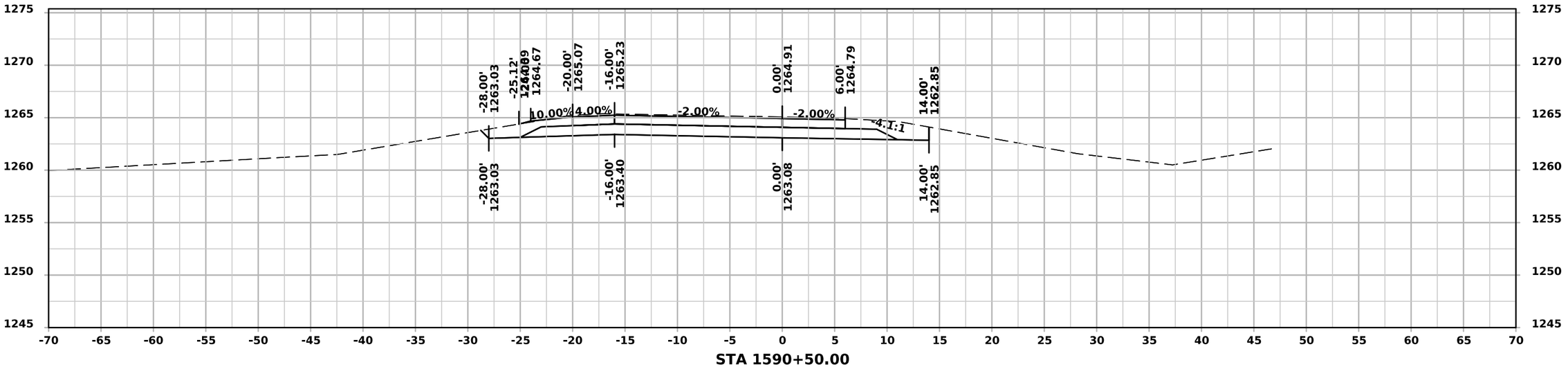


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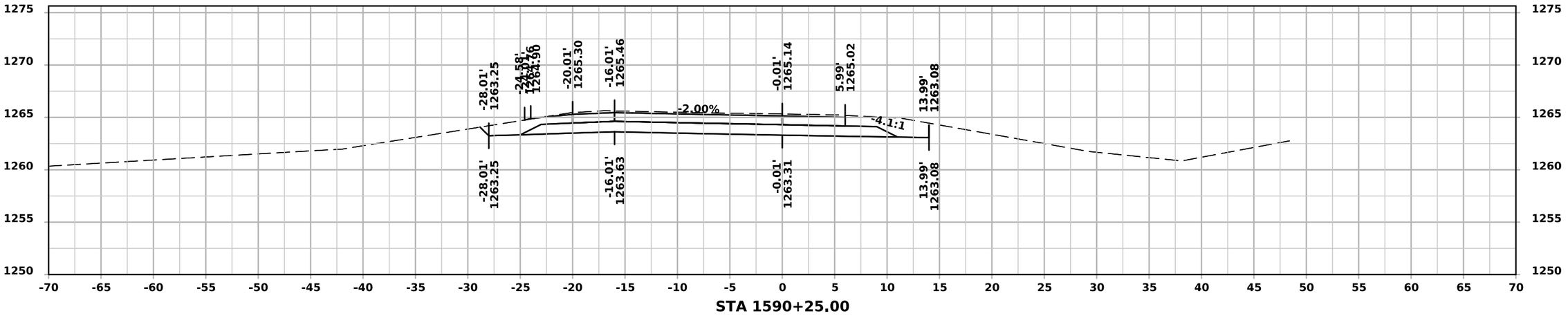
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ML - RAMPA



STA 1590+50.00

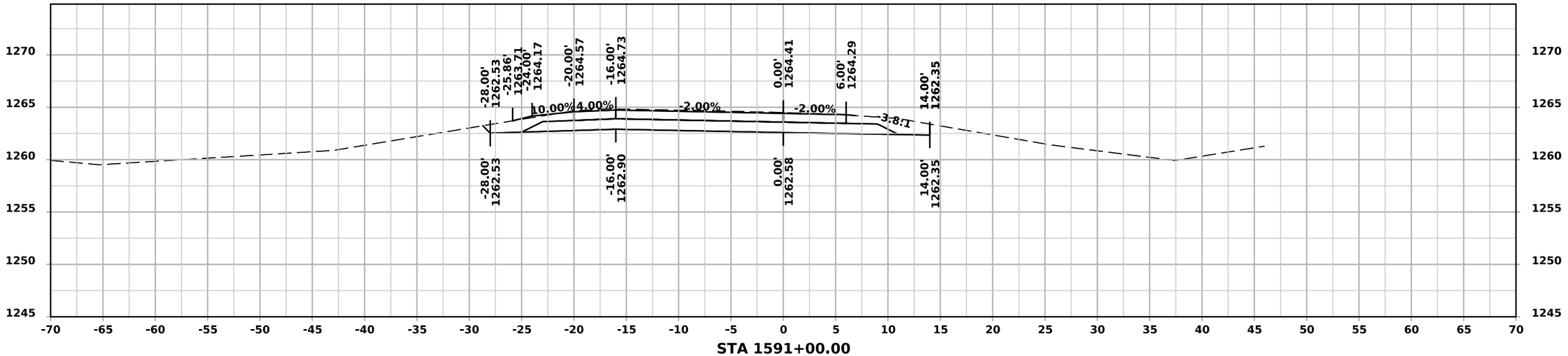


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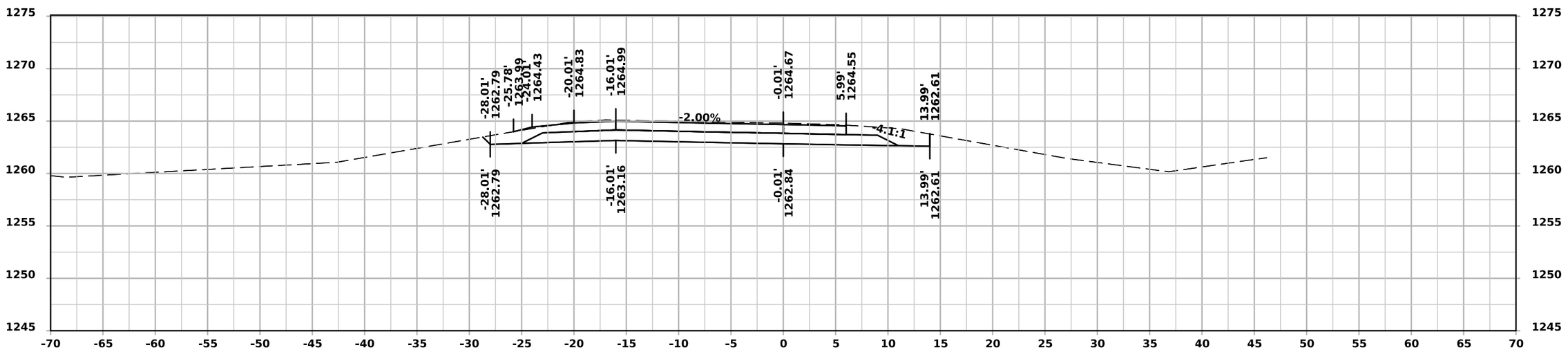
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ML - RAMPA



STA 1591+00.00

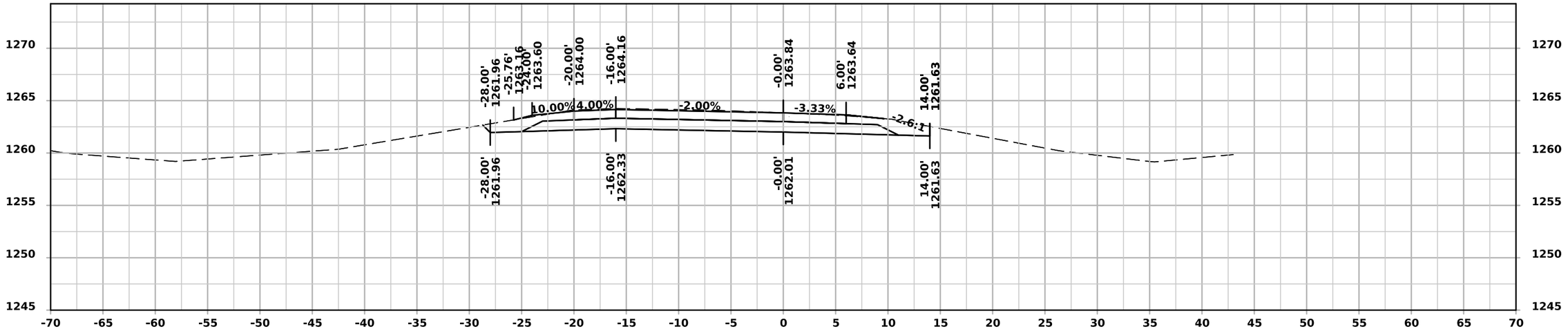


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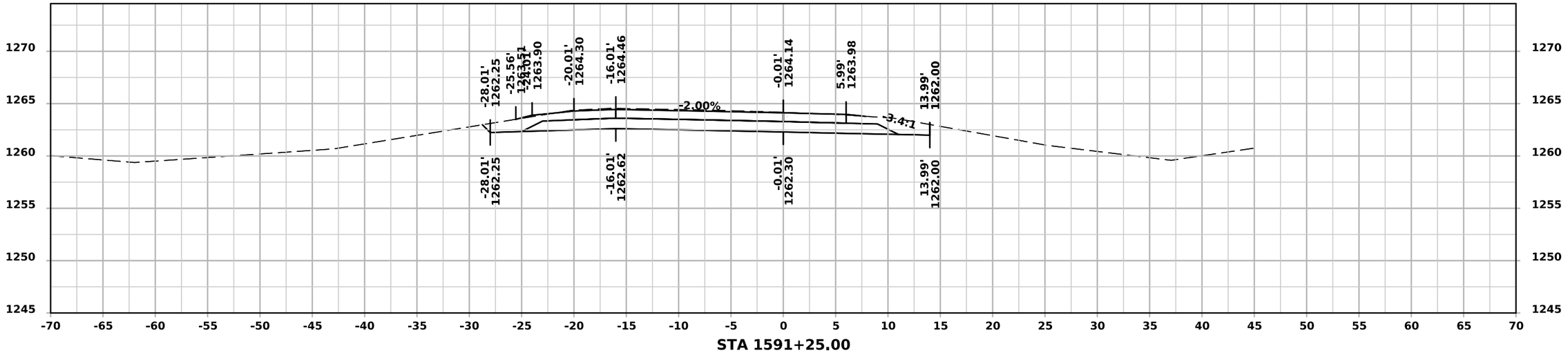
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ML - RAMPA



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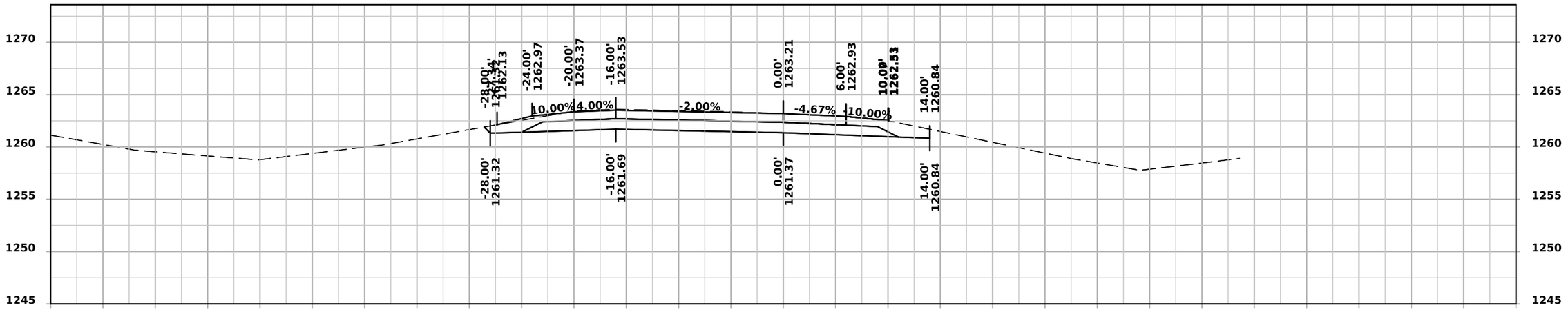


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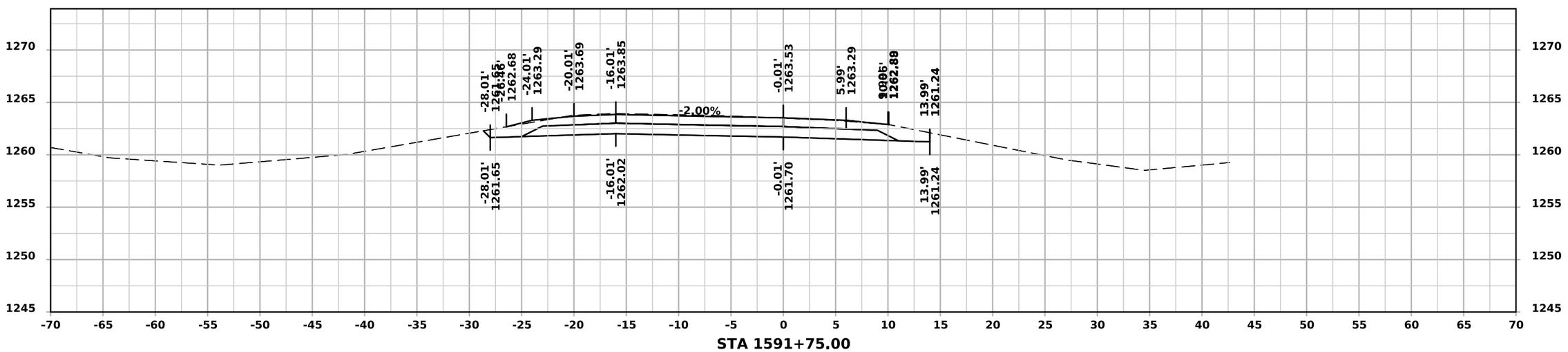
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ML - RAMPA



STA 1592+00.00

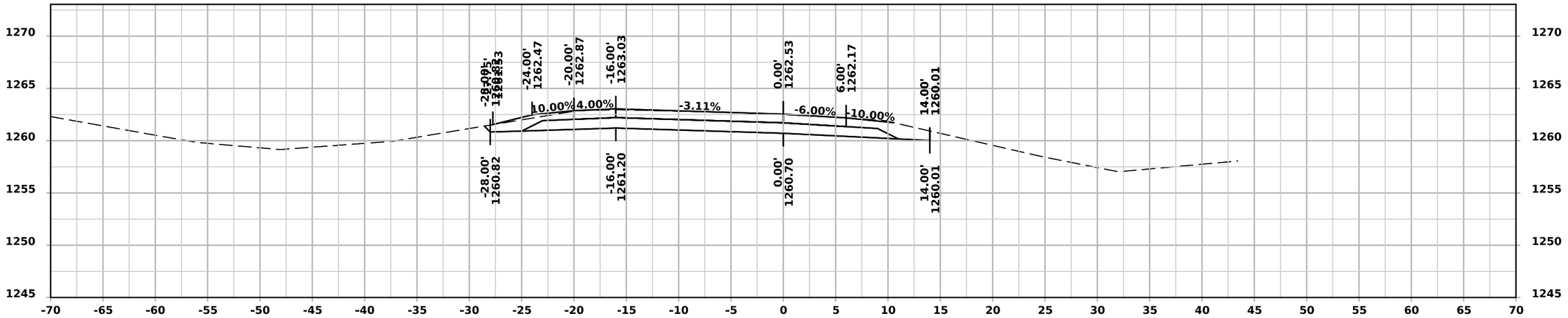


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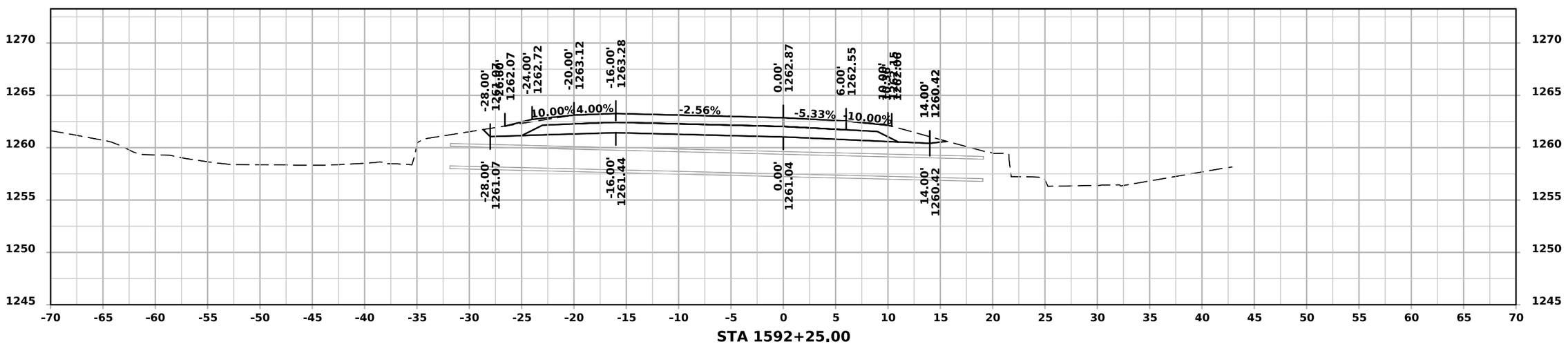
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ML - RAMPA



STA 1592+50.00

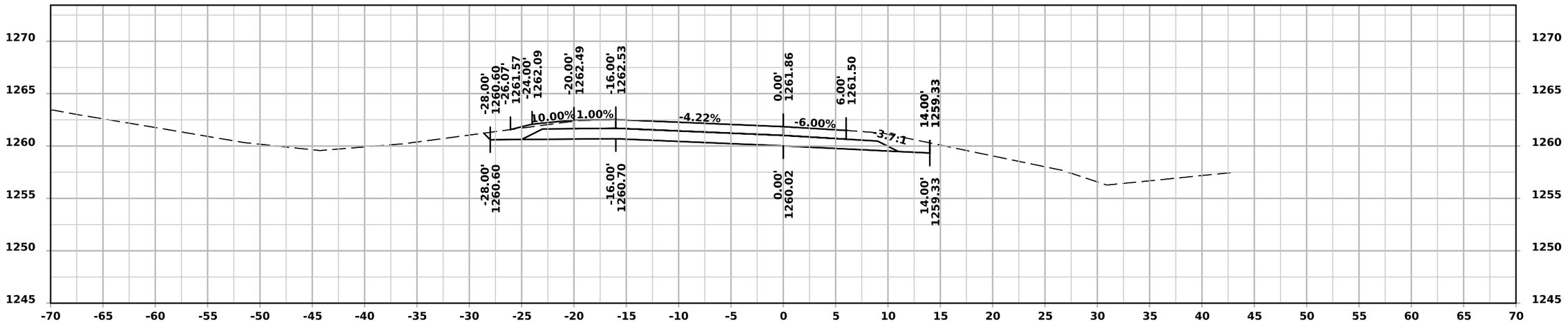


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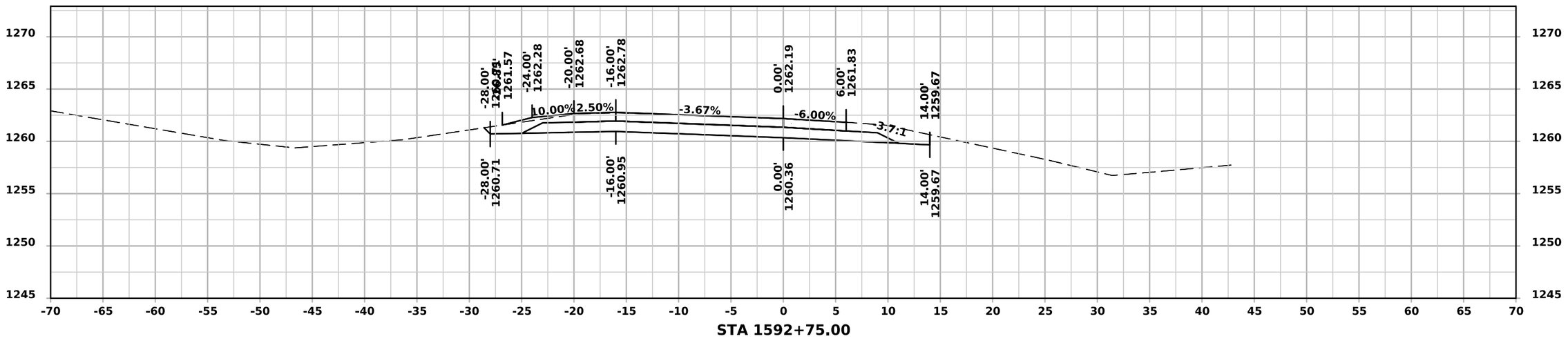
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ML - RAMPA



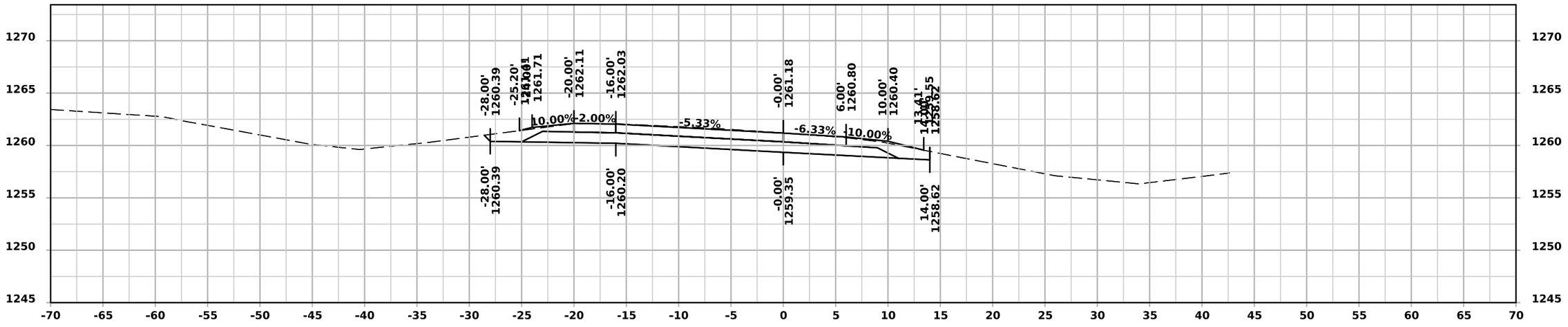
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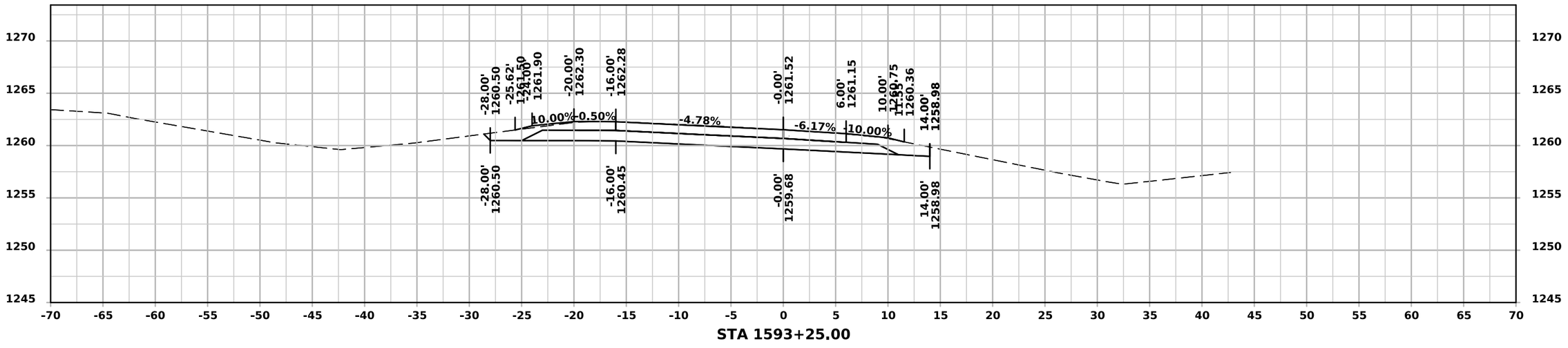
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FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER W.34

ML - RAMPA



STA 1593+50.00

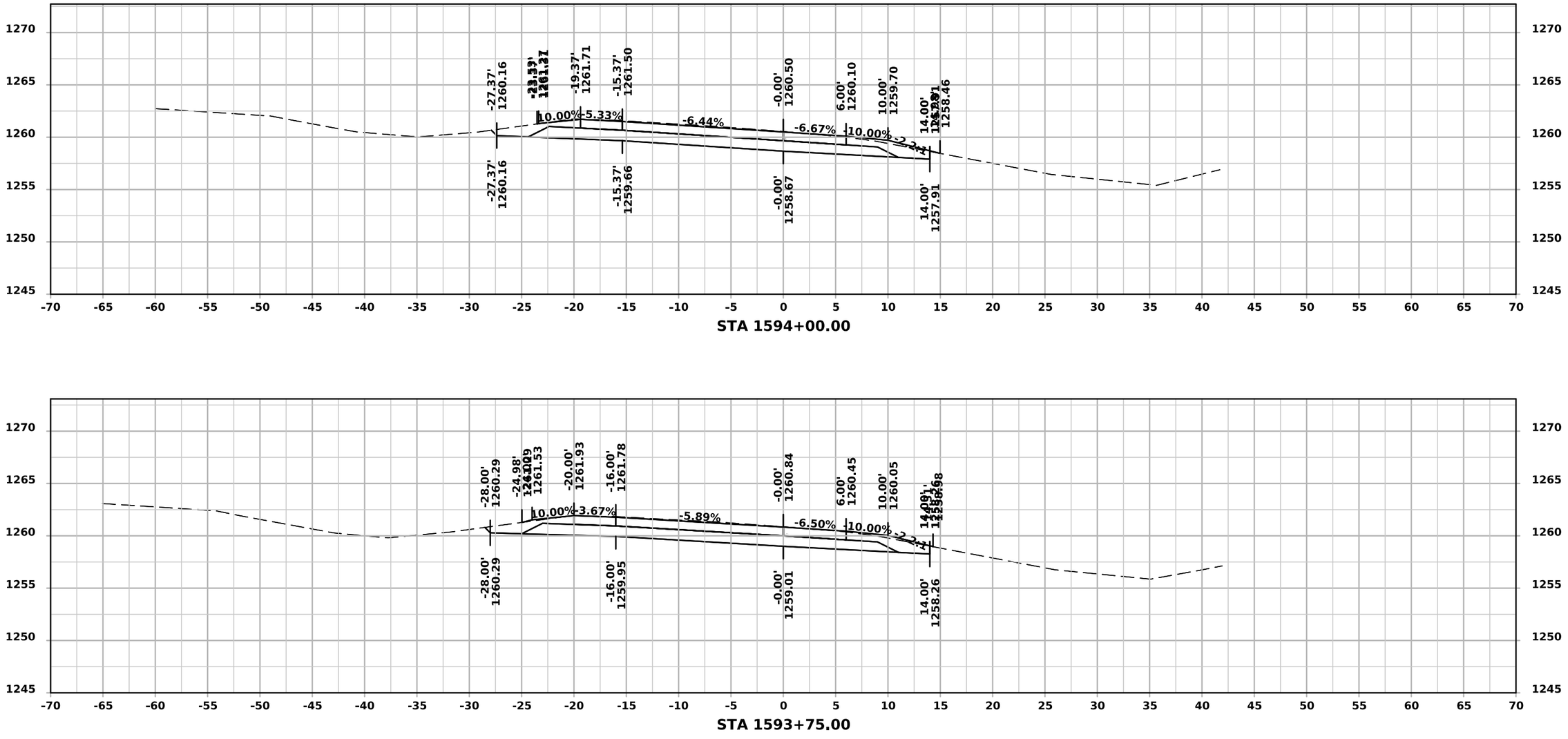


STA 1593+25.00

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER W.35

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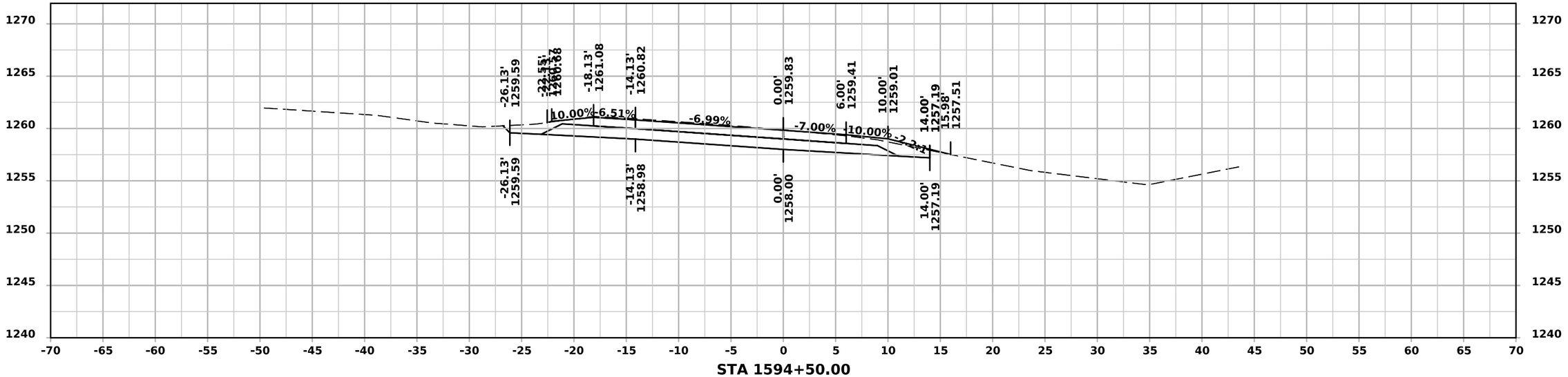
ML - RAMPA



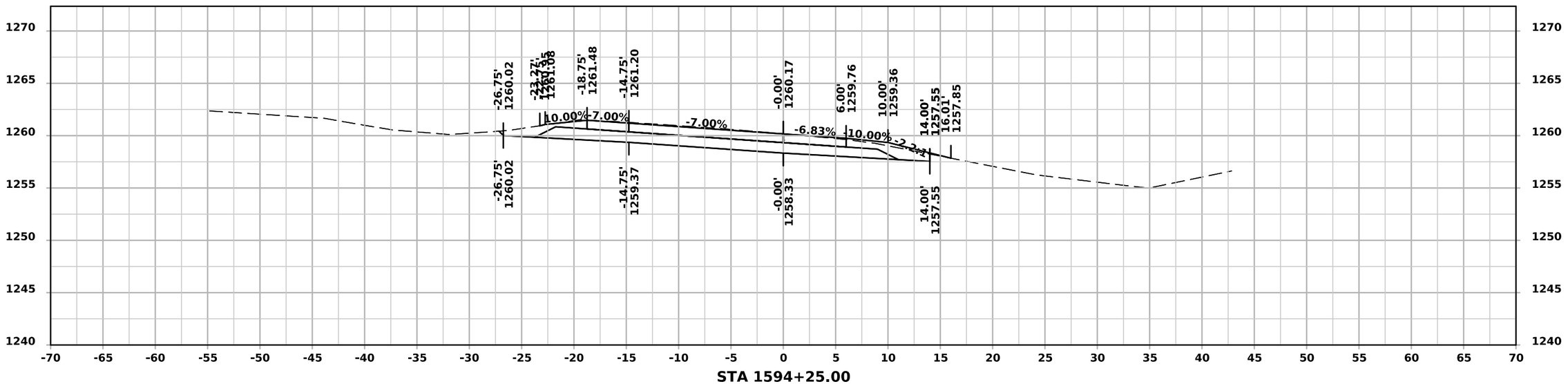
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ML - RAMPA



STA 1594+50.00

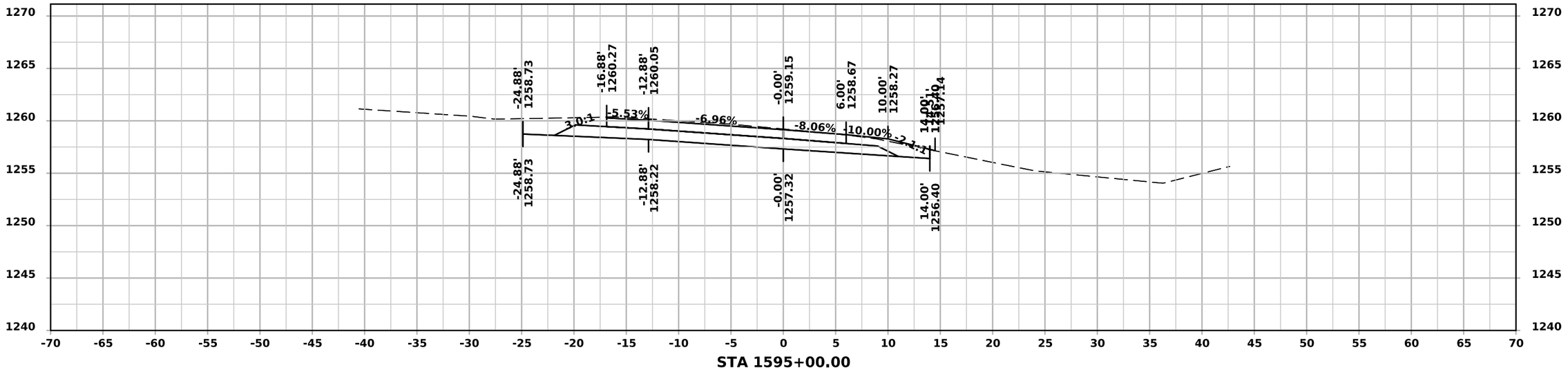


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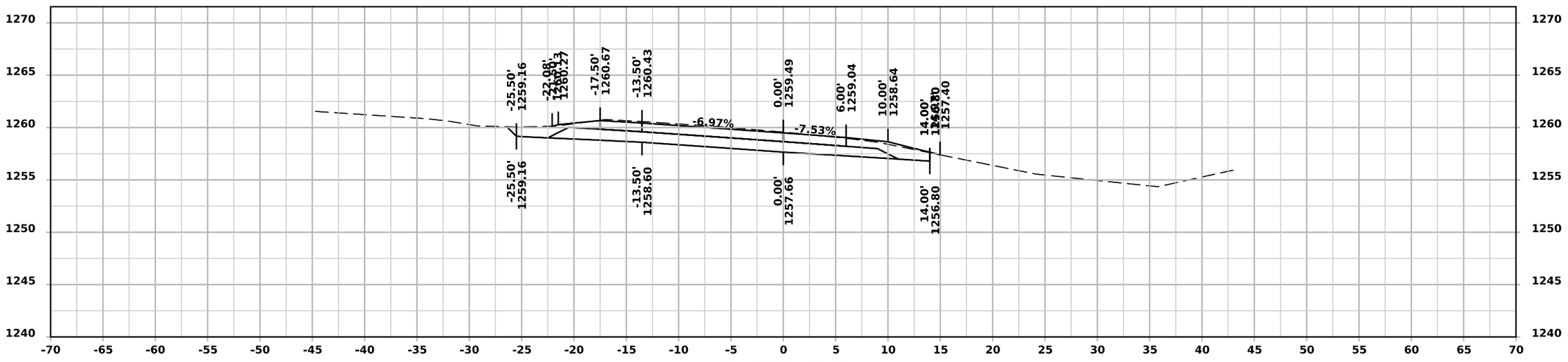
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ML - RAMPA



STA 1595+00.00

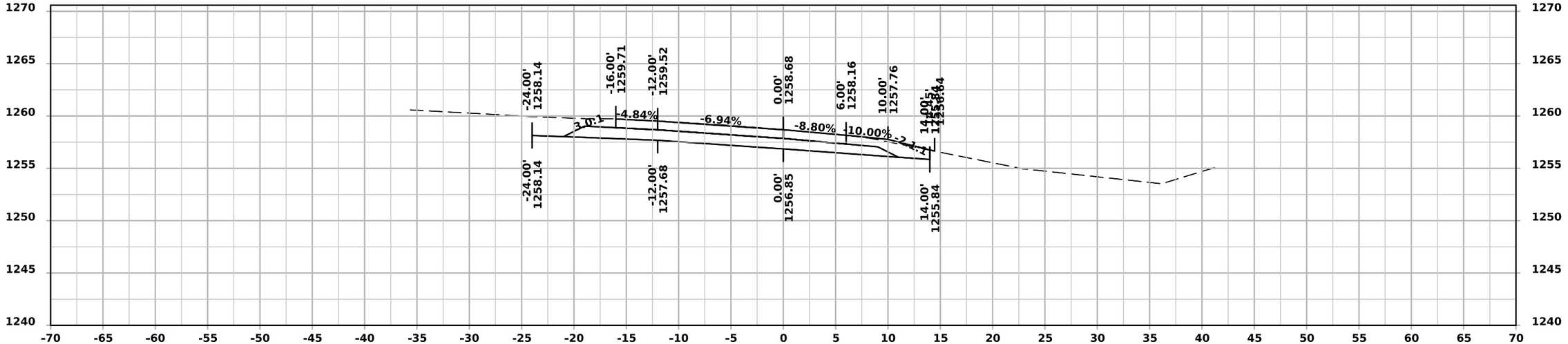


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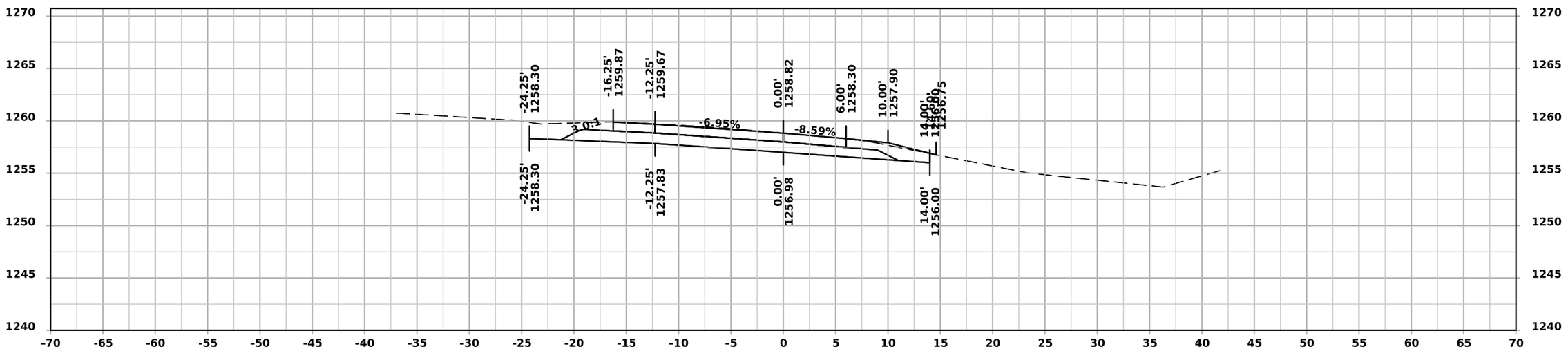
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ML - RAMPA



STA 1595+34.85

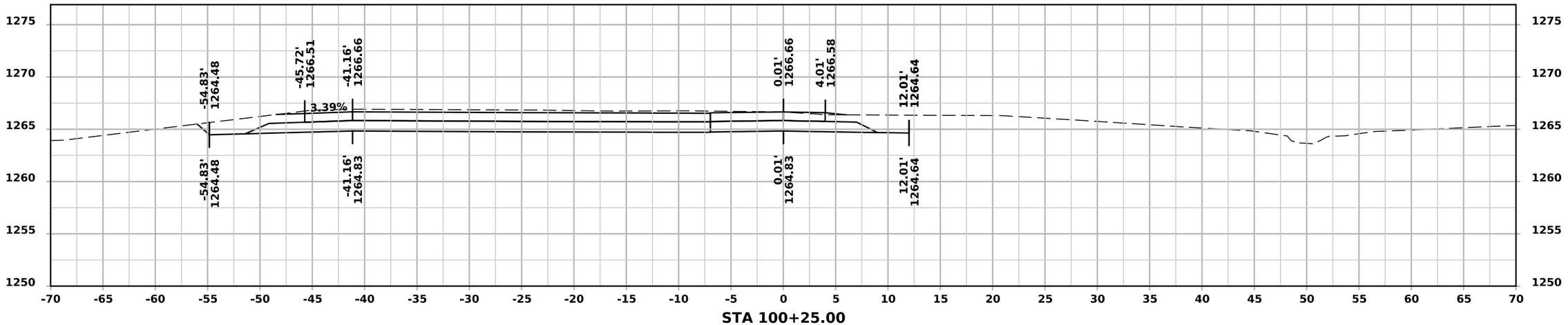


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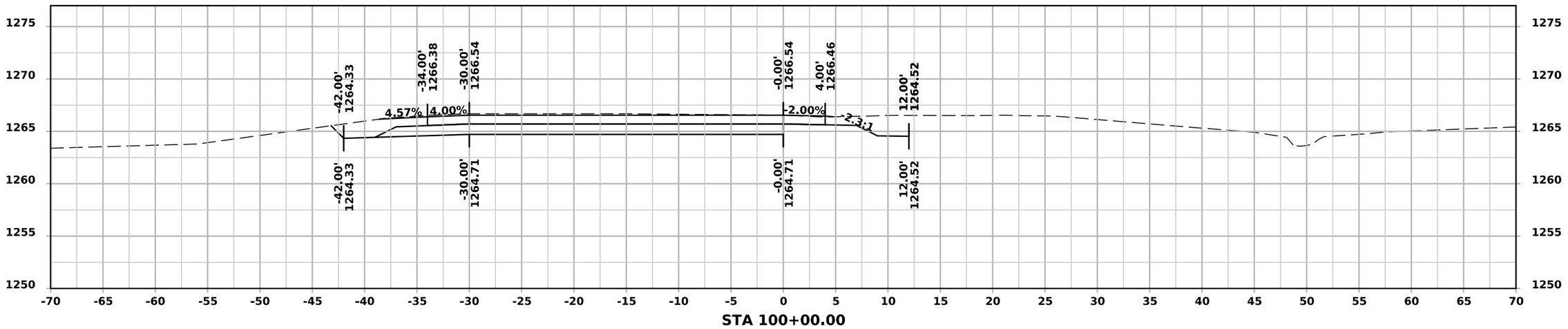
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SR - LOOP



STA 100+25.00

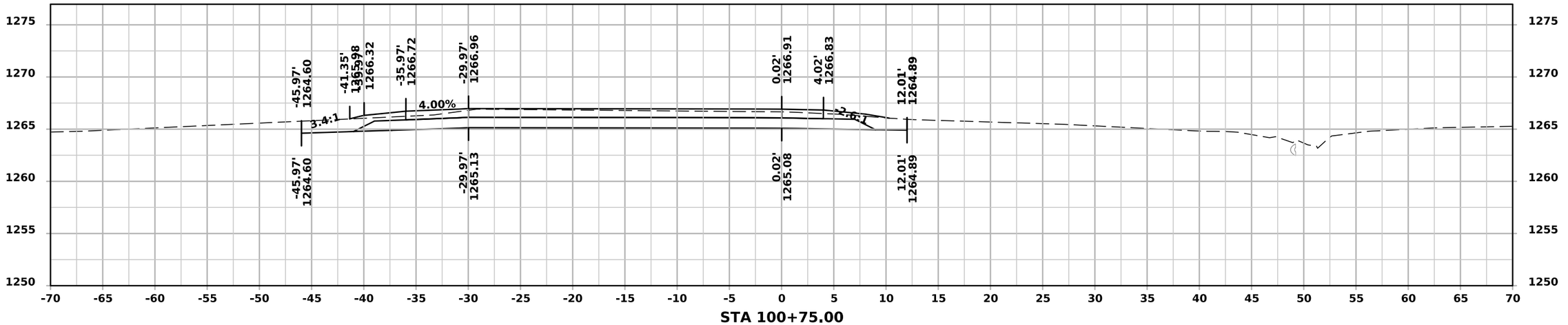


STA 100+00.00

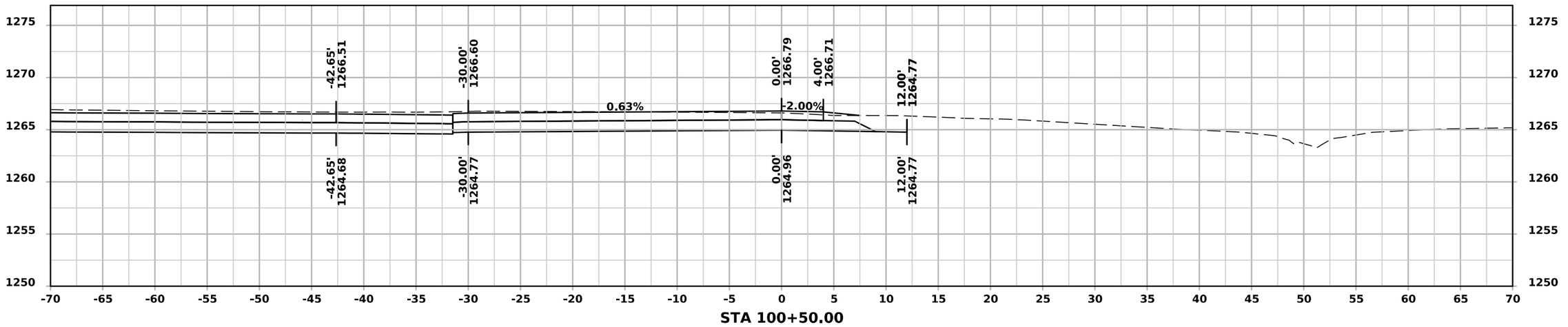
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SR - LOOP



STA 100+75.00

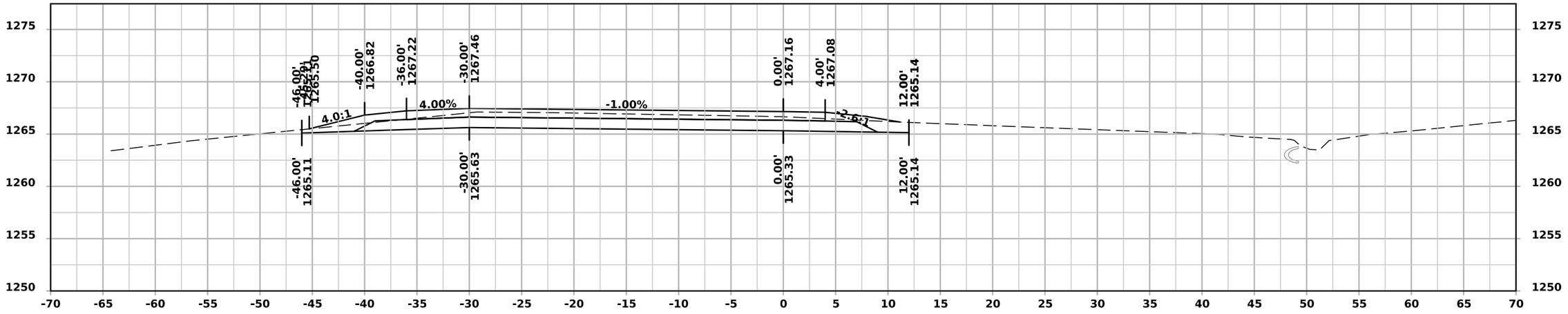


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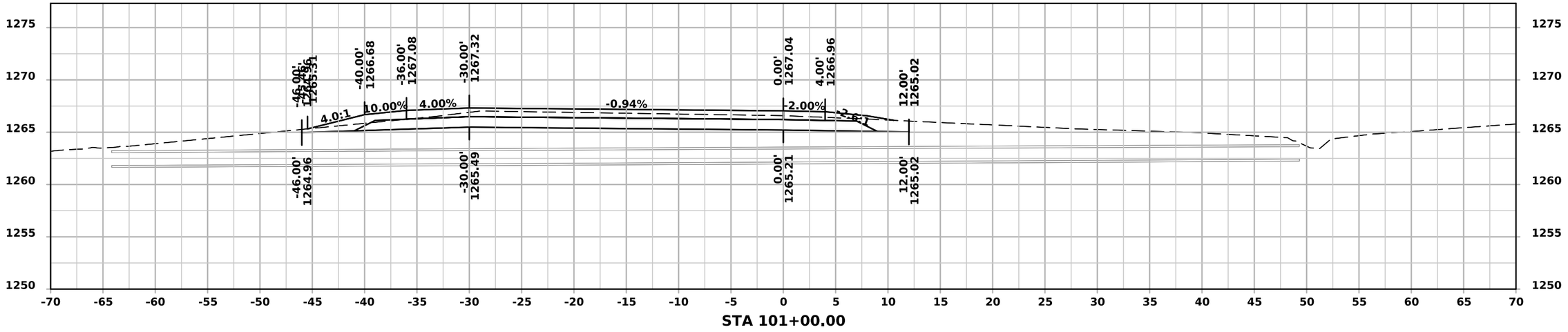
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SR - LOOP



STA 101+25.00

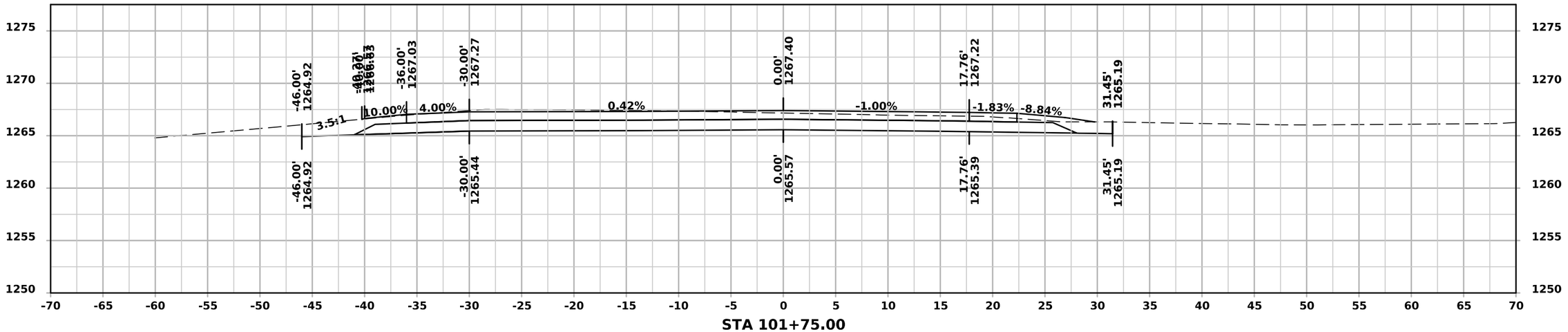


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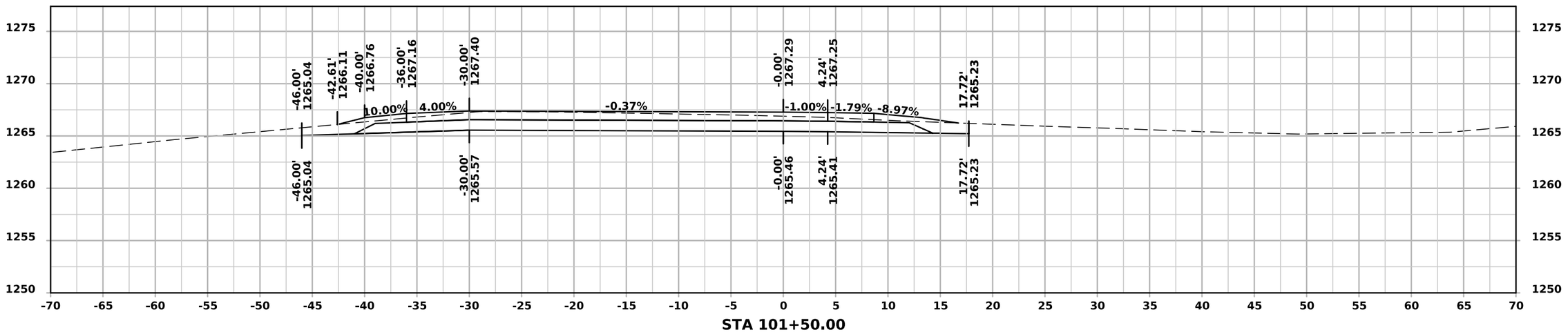
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SR - LOOP



STA 101+75.00

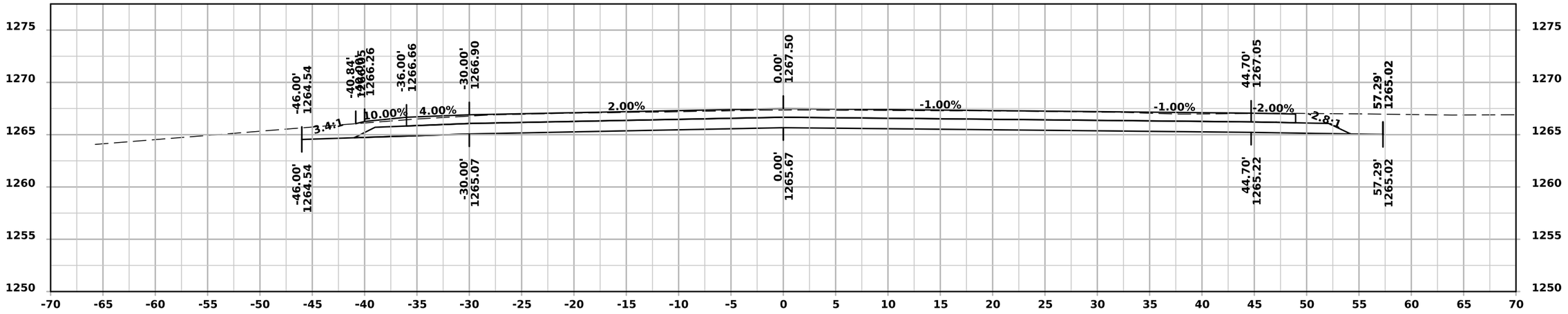


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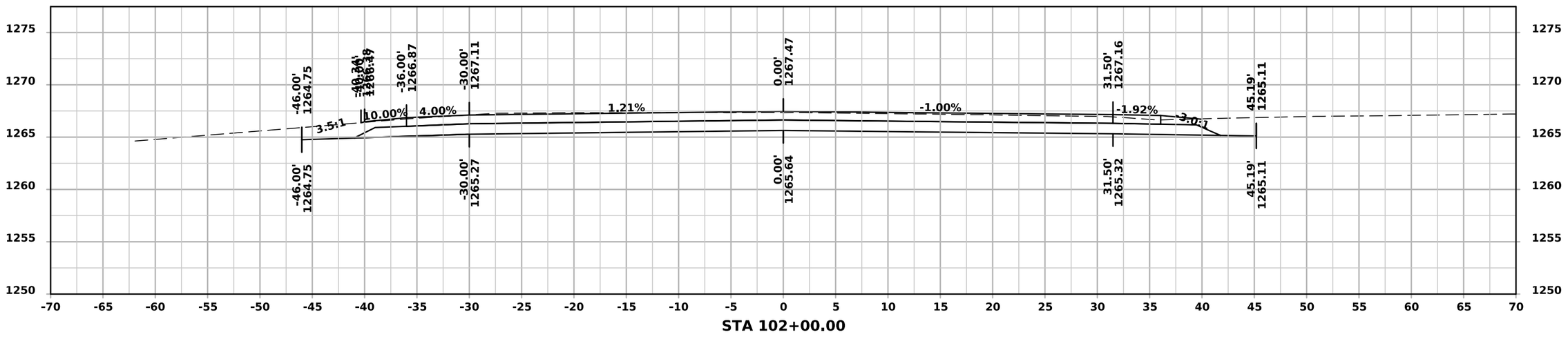
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SR - LOOP



STA 102+25.00

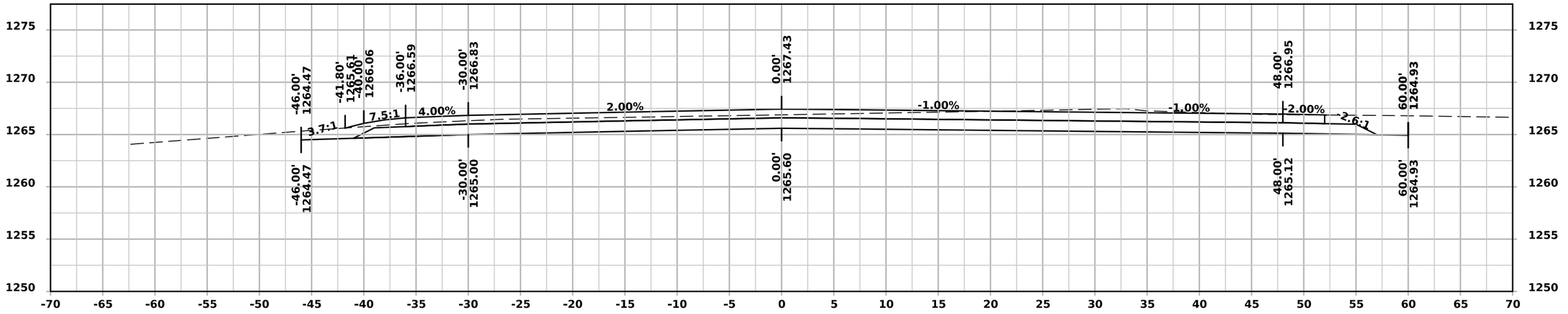


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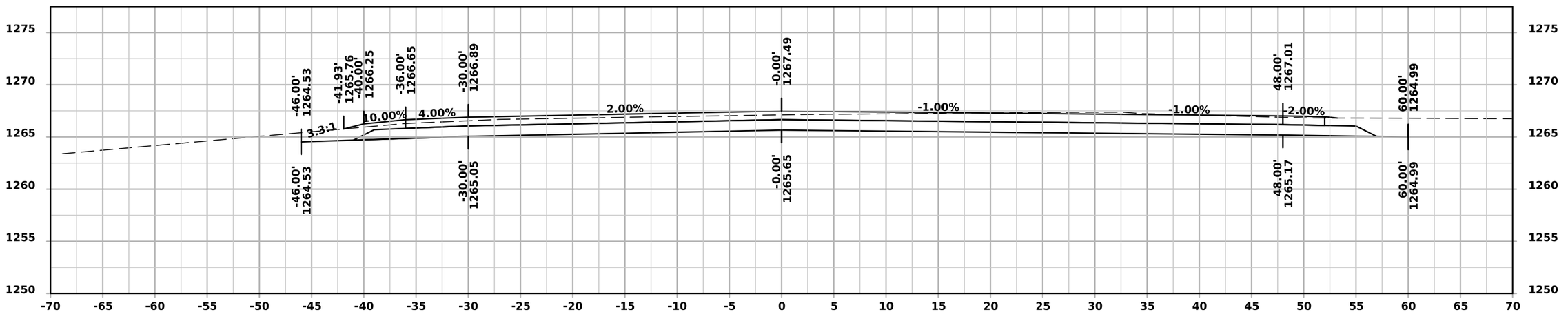
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SR - LOOP



STA 102+75.00

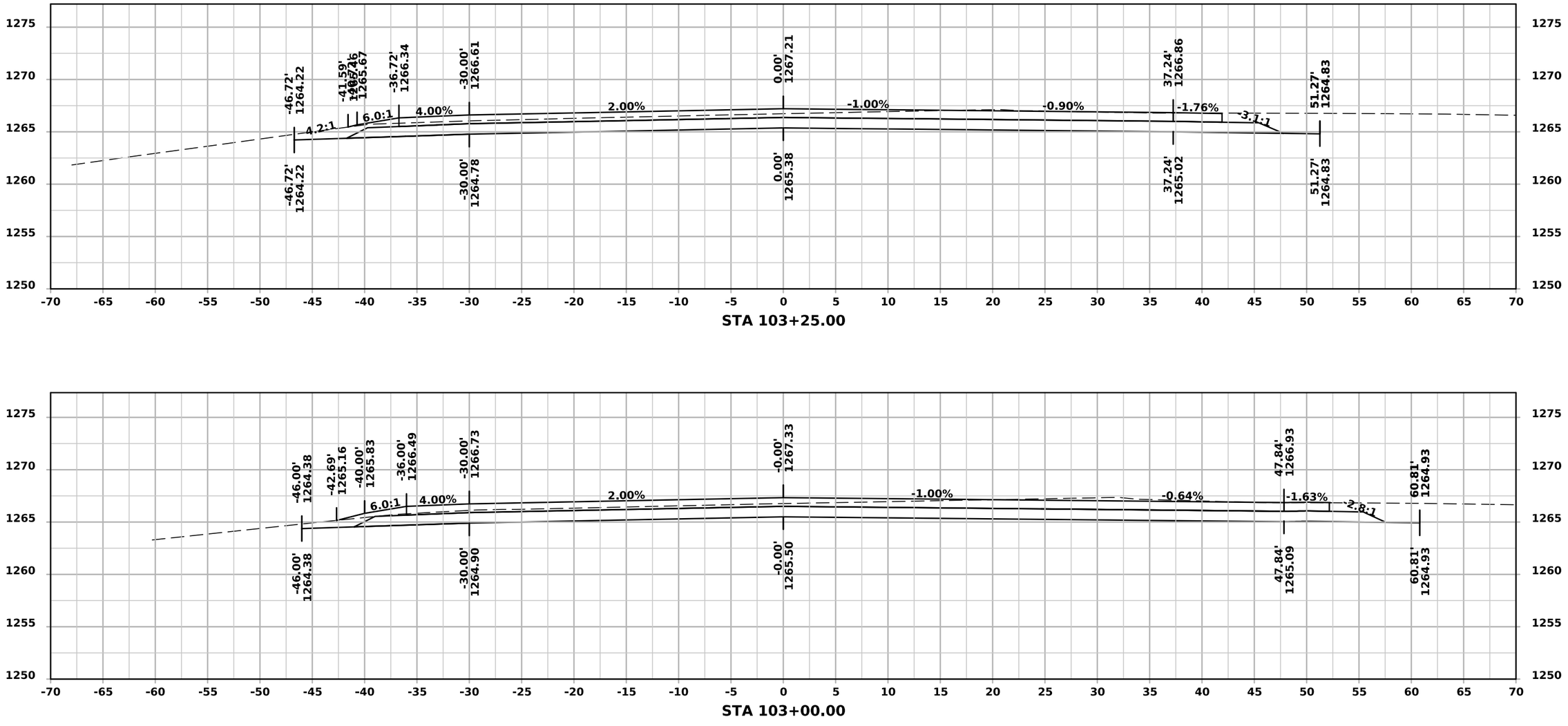


STA 102+50.00

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SR - LOOP



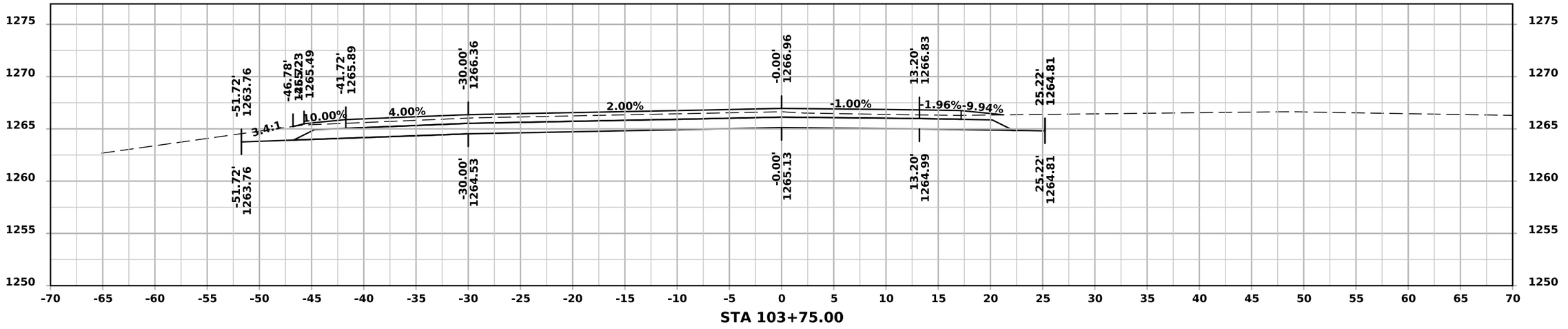
STA 103+25.00

STA 103+00.00

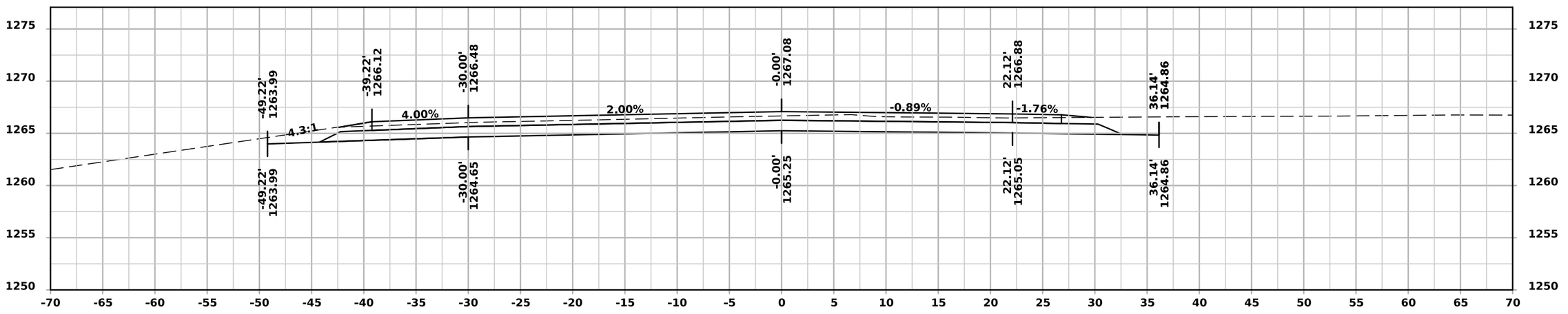
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SR - LOOP



STA 103+75.00

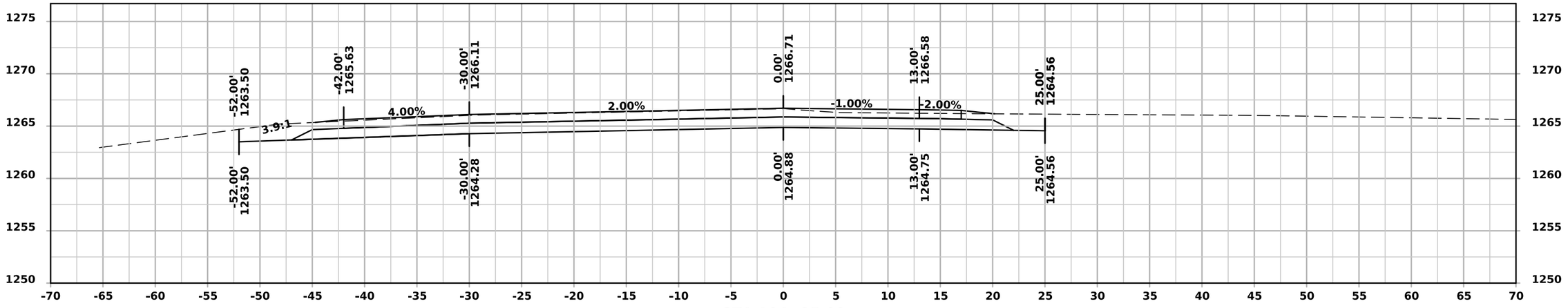


STA 103+50.00

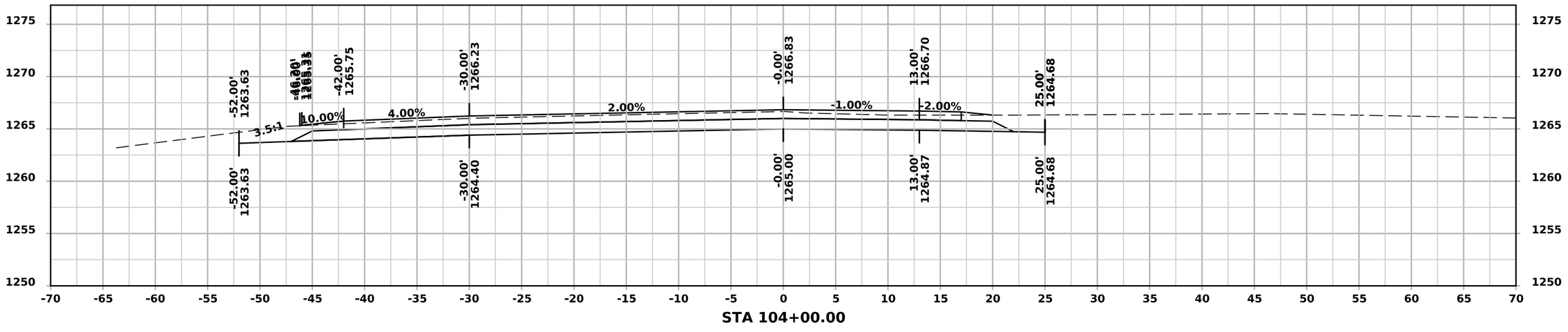
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SR - LOOP



STA 104+25.00

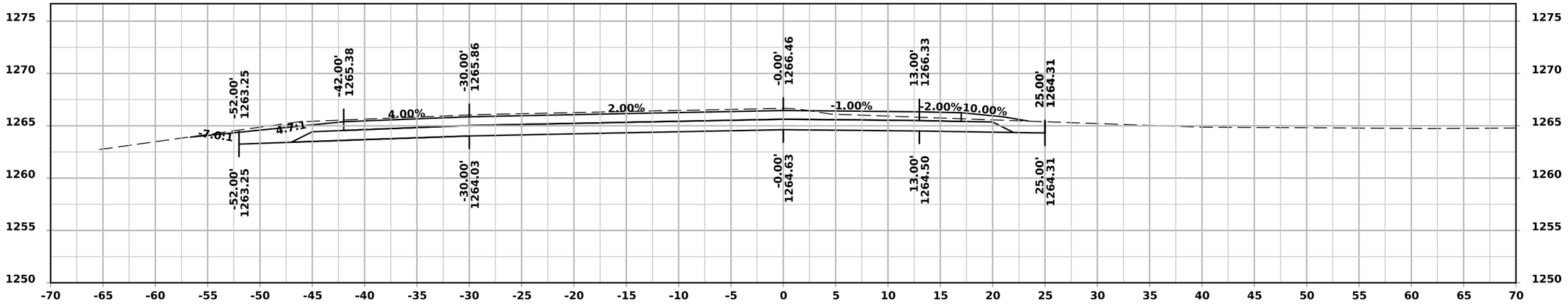


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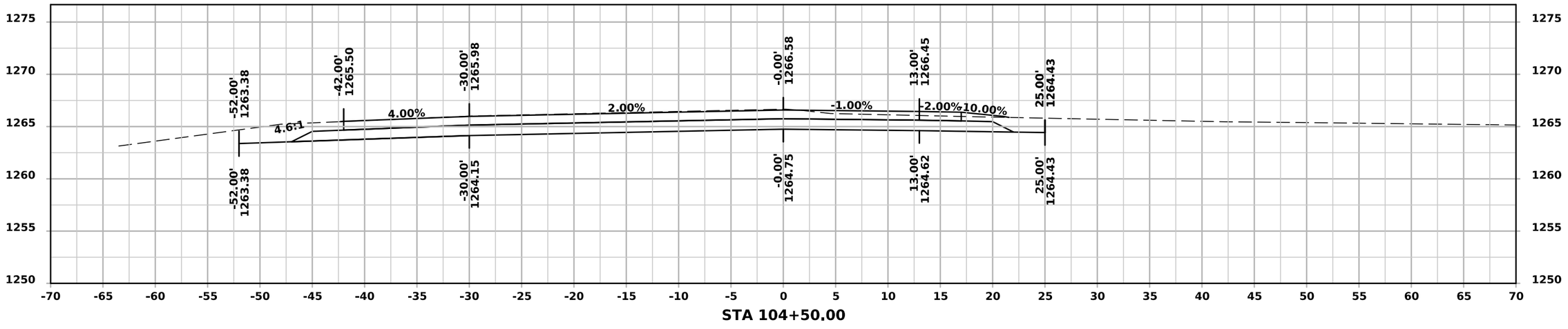
FILE NO.	ENGLISH	DESIGN TEAM Foth		Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER X.9	

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SR - LOOP



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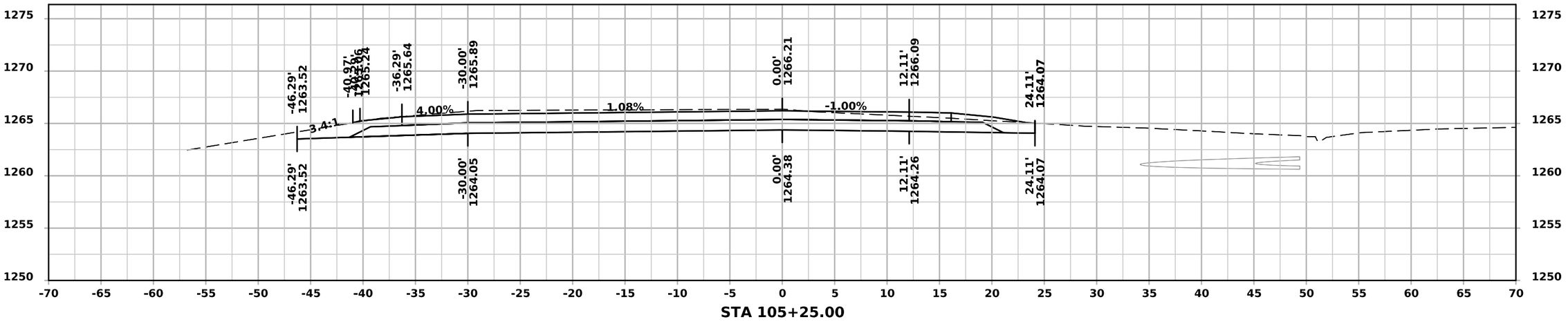


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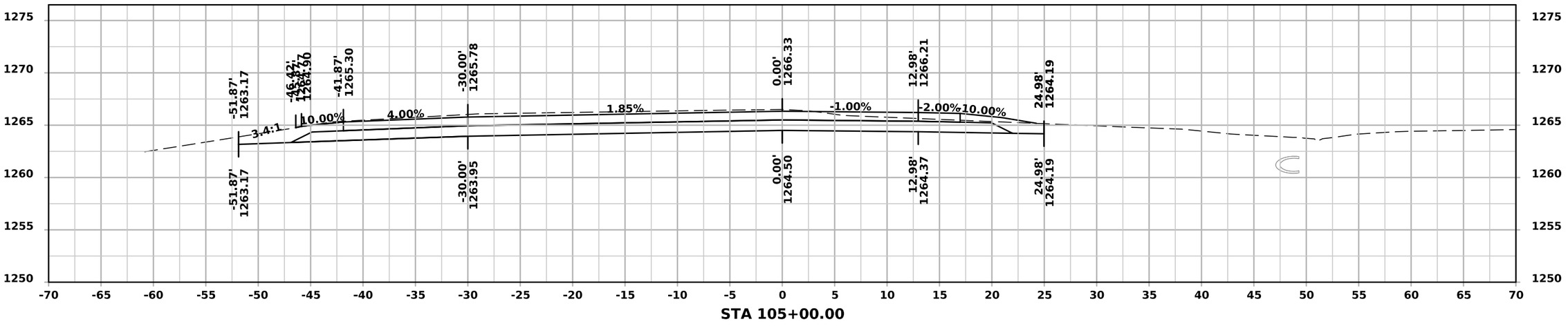
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SR - LOOP



STA 105+25.00

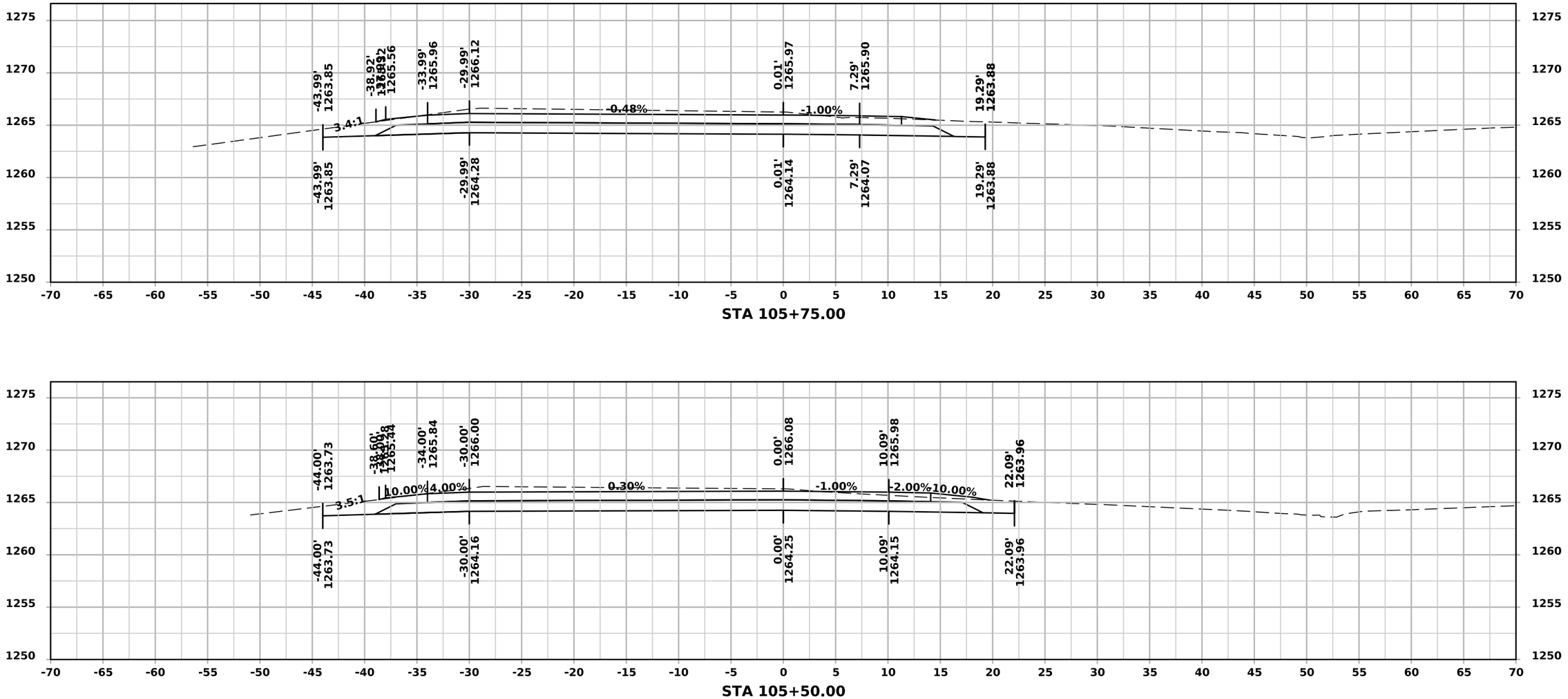


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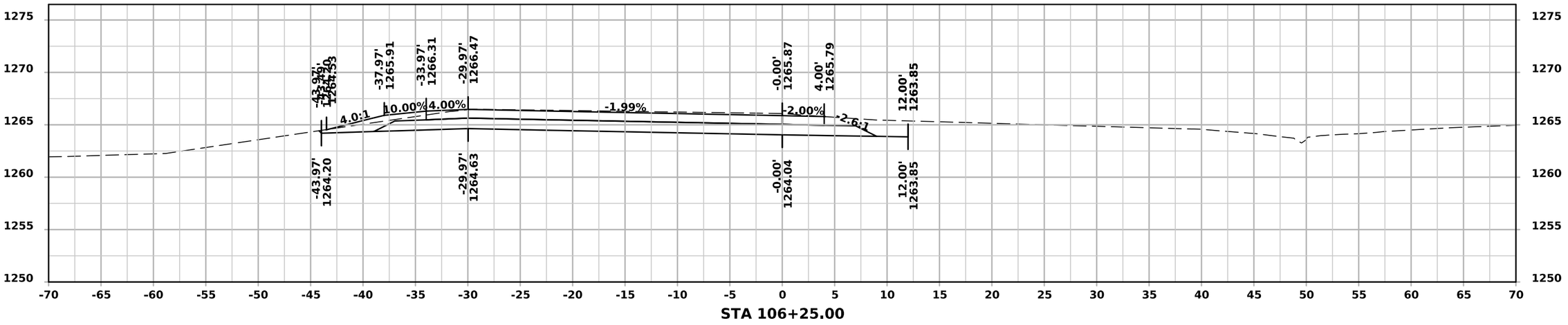
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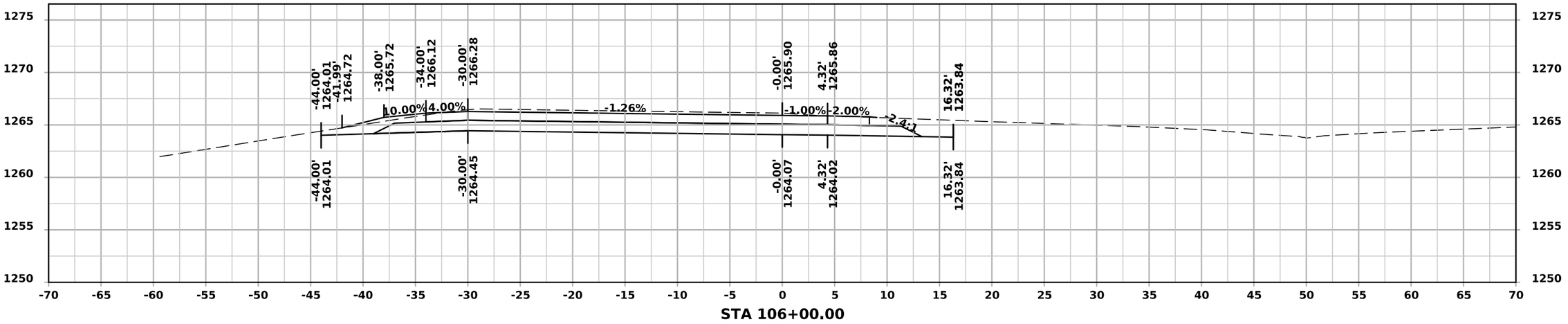
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SR - LOOP



STA 106+25.00

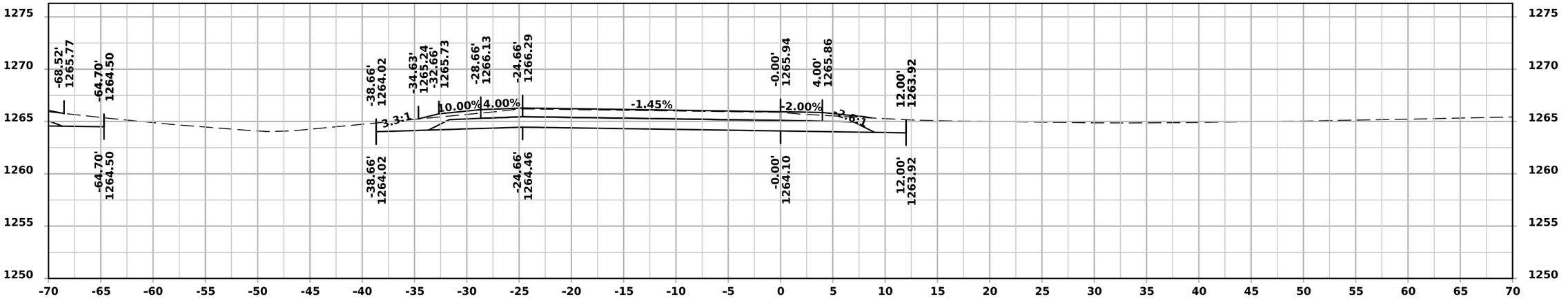


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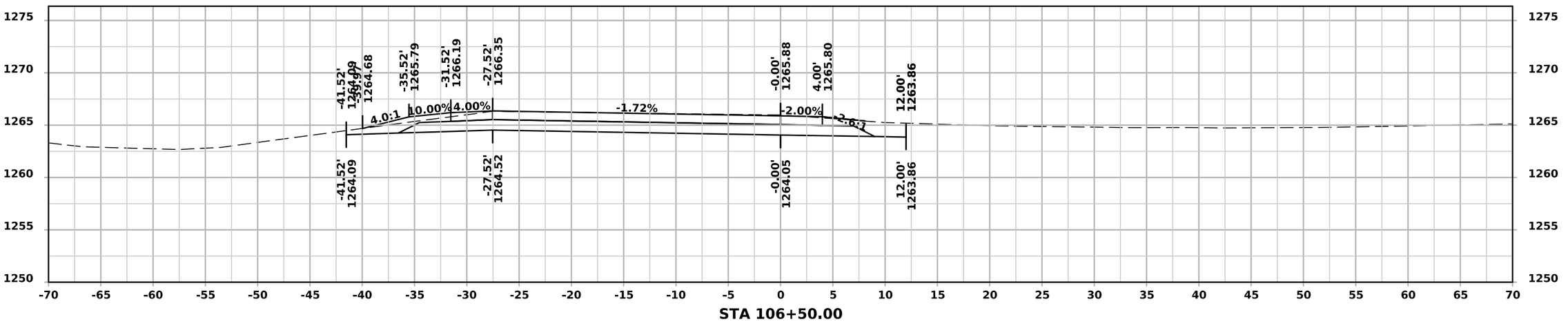
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SR - LOOP



STA 106+75.00

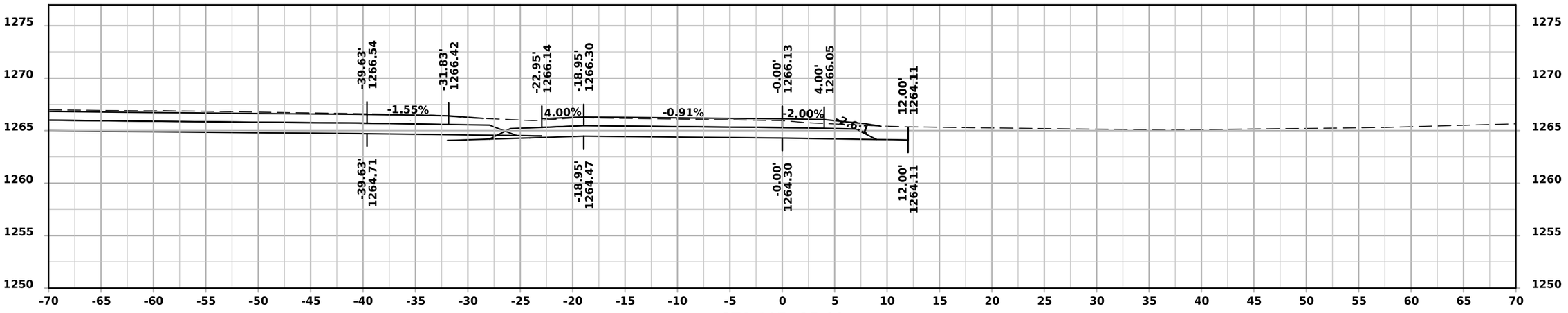


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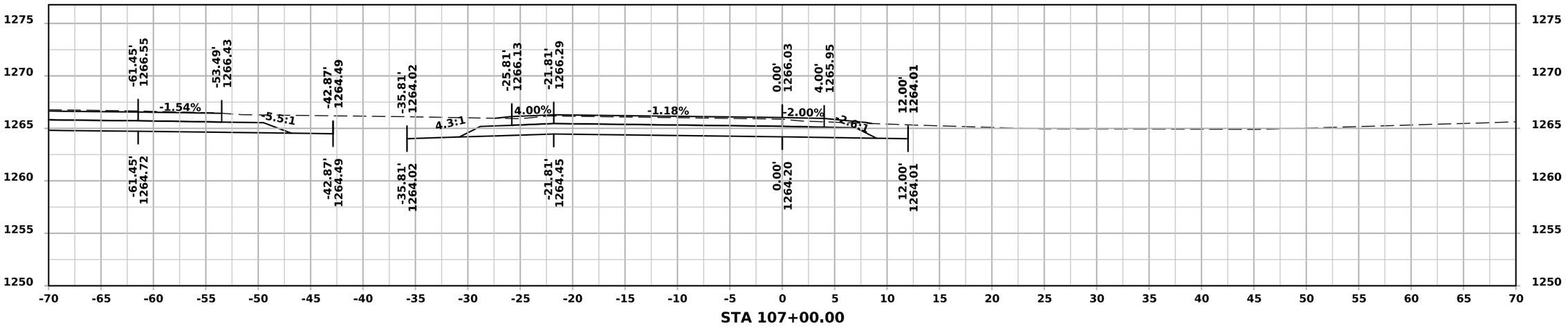
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SR - LOOP



STA 107+25.00

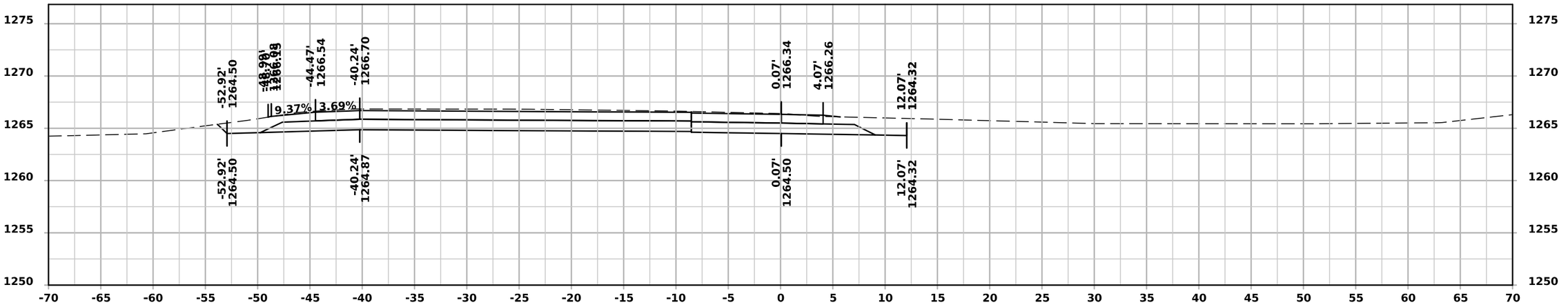


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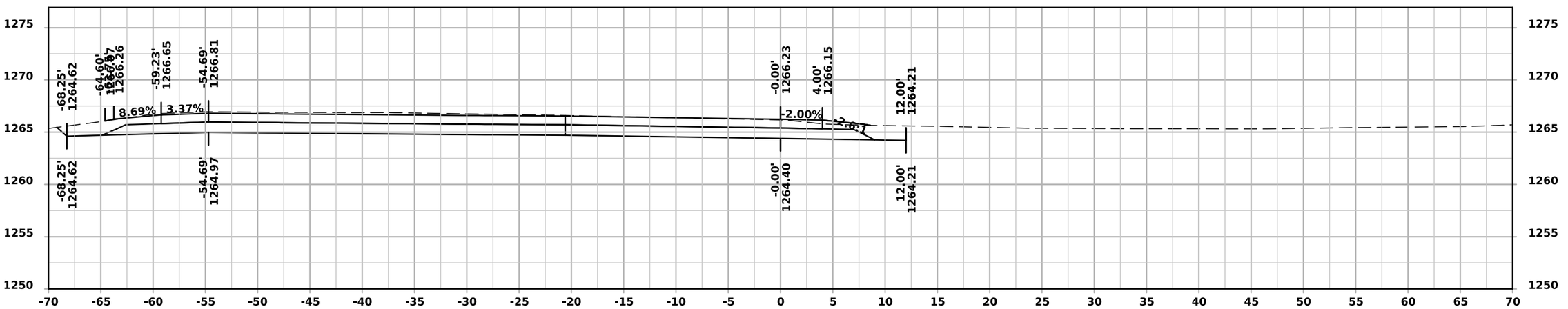
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SR - LOOP



STA 107+75.00

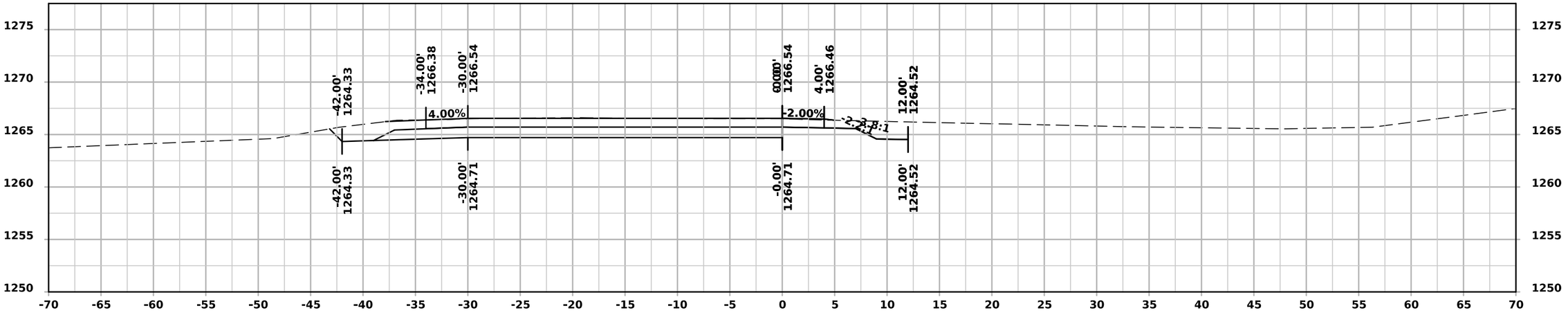


STA 107+50.00

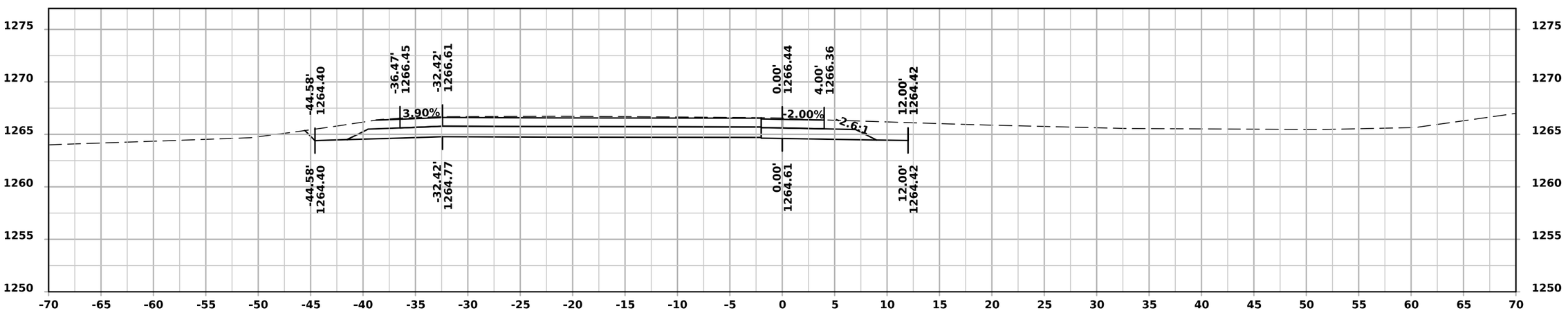
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SR - LOOP



STA 108+24.44



STA 108+00.00

FILE NO.	ENGLISH	DESIGN TEAM Foth	Worth COUNTY	PROJECT NUMBER IMN-035-8(052)212--0E-98	SHEET NUMBER X.17

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