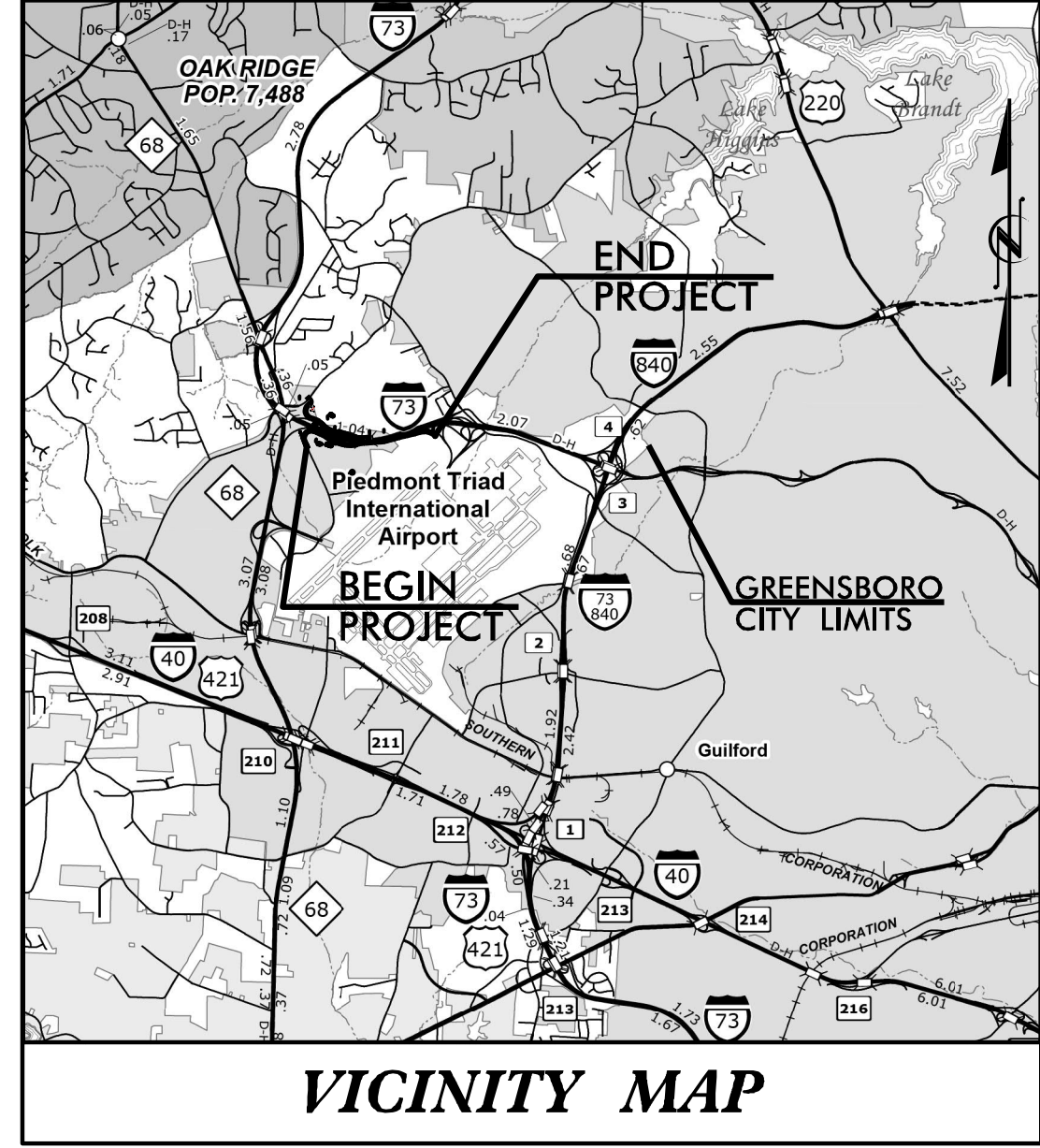


09.08/19

See Sheet 1A For Index of Sheets  
See Sheet 1B For Conventional Plan Sheet Symbols



VICINITY MAP

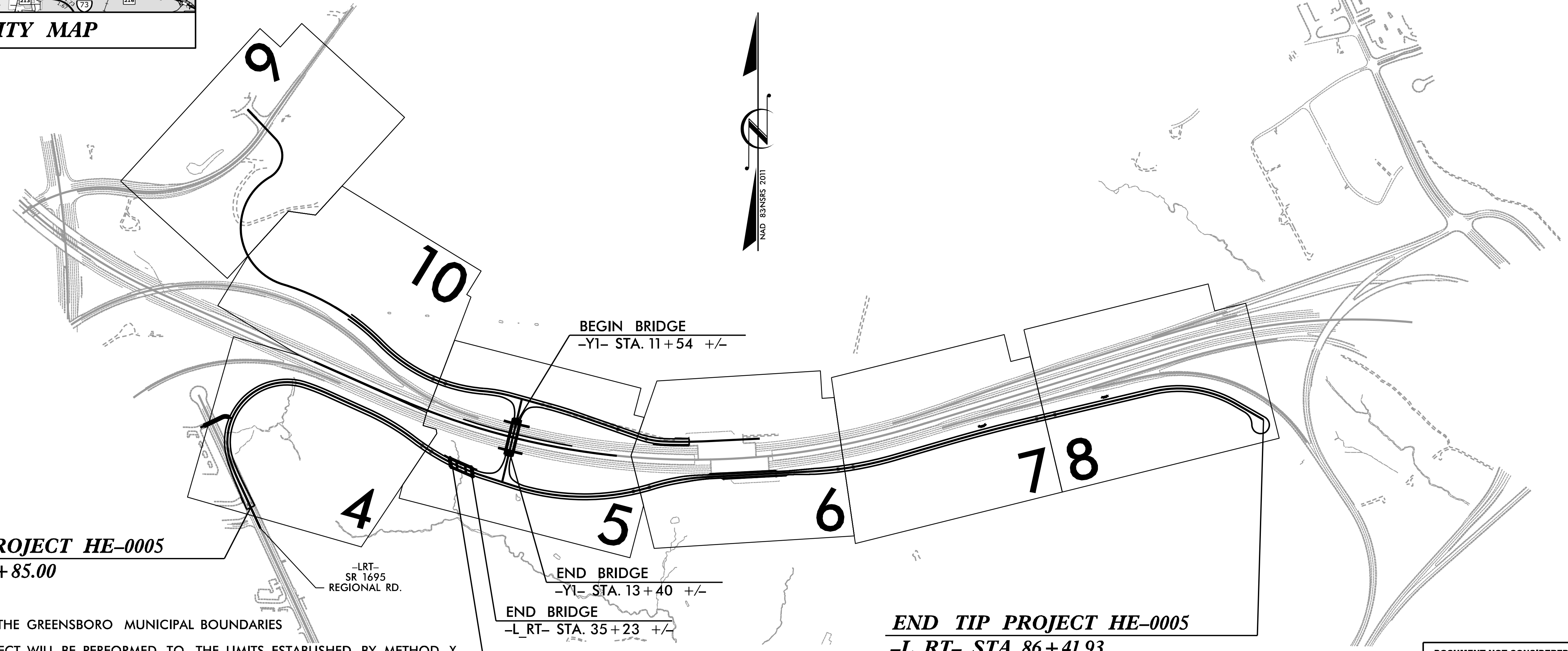
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GUILFORD COUNTY**

**LOCATION: ACCESS IMPROVEMENTS FOR BOOM FACILITY  
ALONG INTERSTATE 73 ON THE NORTH SIDE  
OF PIEDMONT TRIAD INTERNATIONAL AIRPORT**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURES,  
SIGNING, CULVERTS, AND RETAINING WALLS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HE-0005	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50338		PE	
		RW	
		UTIL	
		CONST	

**TIP PROJECT: HE-0005**



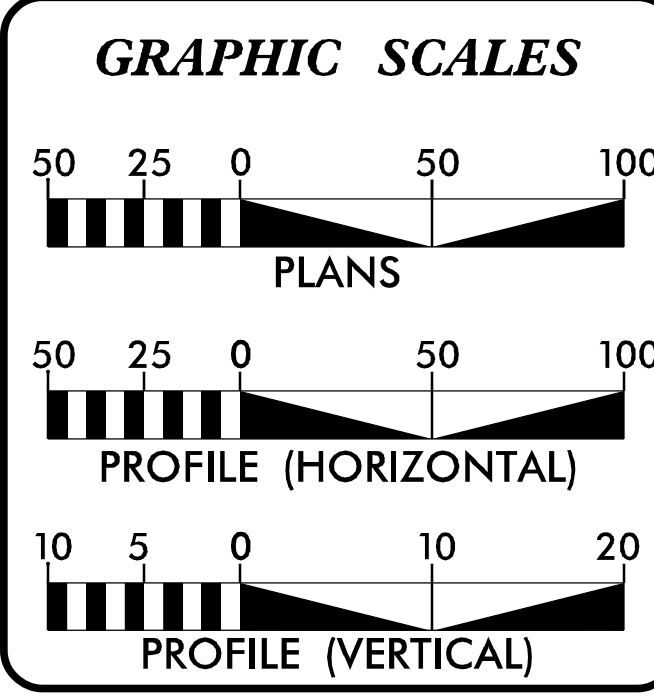
**BEGIN TIP PROJECT HE-0005**  
**-L\_RT- STA. 11 + 85.00**

THIS PROJECT IS WITHIN THE GREENSBORO MUNICIPAL BOUNDARIES  
CLEARING ON THIS PROJECT WILL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD X  
THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES

**END TIP PROJECT HE-0005**  
**-L\_RT- STA. 86 + 41.93**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**



**DESIGN DATA**

ADT 2022 =	X
ADT 2042 =	X
K =	X %
D =	X %
T =	X % *
V =	40 MPH
* TTST =	X DUAL X
FUNC CLASS =	
MINOR COLLECTOR	
REGIONAL TIER	

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT HE-0005 =	2.157 MILES
LENGTH STRUCTURES TIP PROJECT HE-0005 =	.059 MILES
TOTAL LENGTH OF TIP PROJECT HE-0005 =	2.216 MILES

Prepared in the Office of:

**M M**  
**MOTT MACDONALD**  
7621 Purfoy Rd., Suite 115  
Fuquay-Varina, NC 27526  
(919) 552-2253  
(919) 552-2254 (Fax)  
License No. F-0669  
www.mottmac.com/americas

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
XX XX, XXXX

**LETTING DATE:**  
XX XX, XXXX

**DAVID C. WALLER, PE**  
PROJECT ENGINEER

**JEFFREY R. COOKE, PE**  
PROJECT DESIGN ENGINEER

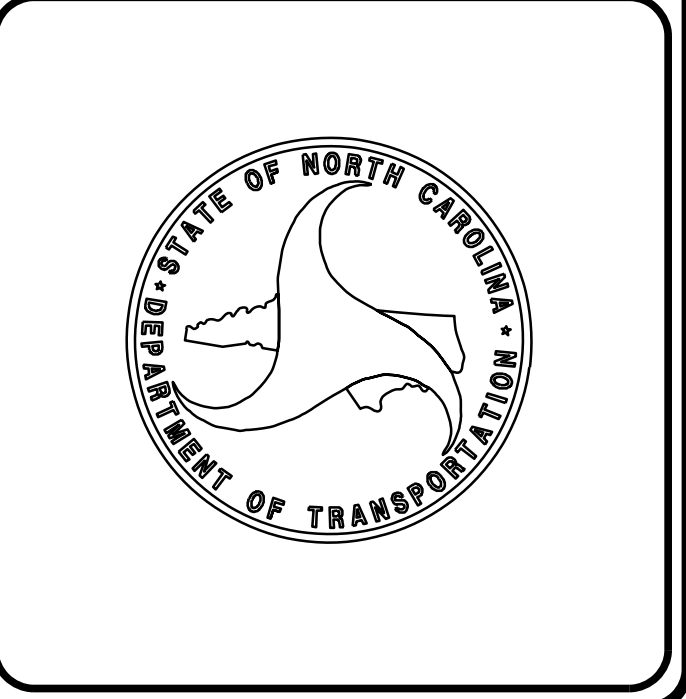
**BRIAN KETNER**  
NCDOT CONTACT - DIVISION 7

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.



5/10/2022 R:\Roadway\Proj\B00M\_rdy\_TSH.dgn COK82519

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

## CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

*Note: Not to Scale*

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☠-s-☠-s-
Potential Contamination Area: Soil	☠-s-☠-s-
Known Contamination Area: Water	☠-w-☠-w-
Potential Contamination Area: Water	☠-w-☠-w-
Contaminated Site: Known or Potential	☠ ?

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

**HYDROLOGY:**

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

**RAILROADS:**

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

**RIGHT OF WAY & PROJECT CONTROL:**

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊠
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	▲
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◇
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	▲
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage/Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed Aerial Utility Easement	AUE

**ROADS AND RELATED FEATURES:**

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	T
Proposed Guardrail	T
Existing Cable Guiderail	□
Proposed Cable Guiderail	□
Equality Symbol	⊕
Pavement Removal	⊗
<b>VEGETATION:</b>	
Single Tree	○
Single Shrub	○
Hedge	-----

Woods Line	-----
Orchard	○
Vineyard	□

**EXISTING STRUCTURES:**

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	S

**UTILITIES:**

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A, B, C or D (Accuracy)

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	PH
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	⊗
U/G Power Line (SUE - LOS B)*	-----
U/G Power Line (SUE - LOS C)*	-----
U/G Power Line (SUE - LOS D)*	-----

**TELEPHONE:**

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	PH
U/G Telephone Test Hole (SUE - LOS A)*	⊗
U/G Telephone Cable (SUE - LOS B)*	-----
U/G Telephone Cable (SUE - LOS C)*	-----
U/G Telephone Cable (SUE - LOS D)*	-----
U/G Telephone Conduit (SUE - LOS B)*	-----
U/G Telephone Conduit (SUE - LOS C)*	-----
U/G Telephone Conduit (SUE - LOS D)*	-----
U/G Fiber Optics Cable (SUE - LOS B)*	-----
U/G Fiber Optics Cable (SUE - LOS C)*	-----
U/G Fiber Optics Cable (SUE - LOS D)*	-----

**WATER:**

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	⊗
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	A/G Water

**TV:**

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	PH
U/G TV Test Hole (SUE - LOS A)*	⊗
U/G TV Cable (SUE - LOS B)*	-----
U/G TV Cable (SUE - LOS C)*	-----
U/G TV Cable (SUE - LOS D)*	-----
U/G Fiber Optic Cable (SUE - LOS B)*	-----
U/G Fiber Optic Cable (SUE - LOS C)*	-----
U/G Fiber Optic Cable (SUE - LOS D)*	-----

**GAS:**

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊗
U/G Gas Line (SUE - LOS B)*	-----
U/G Gas Line (SUE - LOS C)*	-----
U/G Gas Line (SUE - LOS D)*	-----
Above Ground Gas Line	A/G Gas

**SANITARY SEWER:**

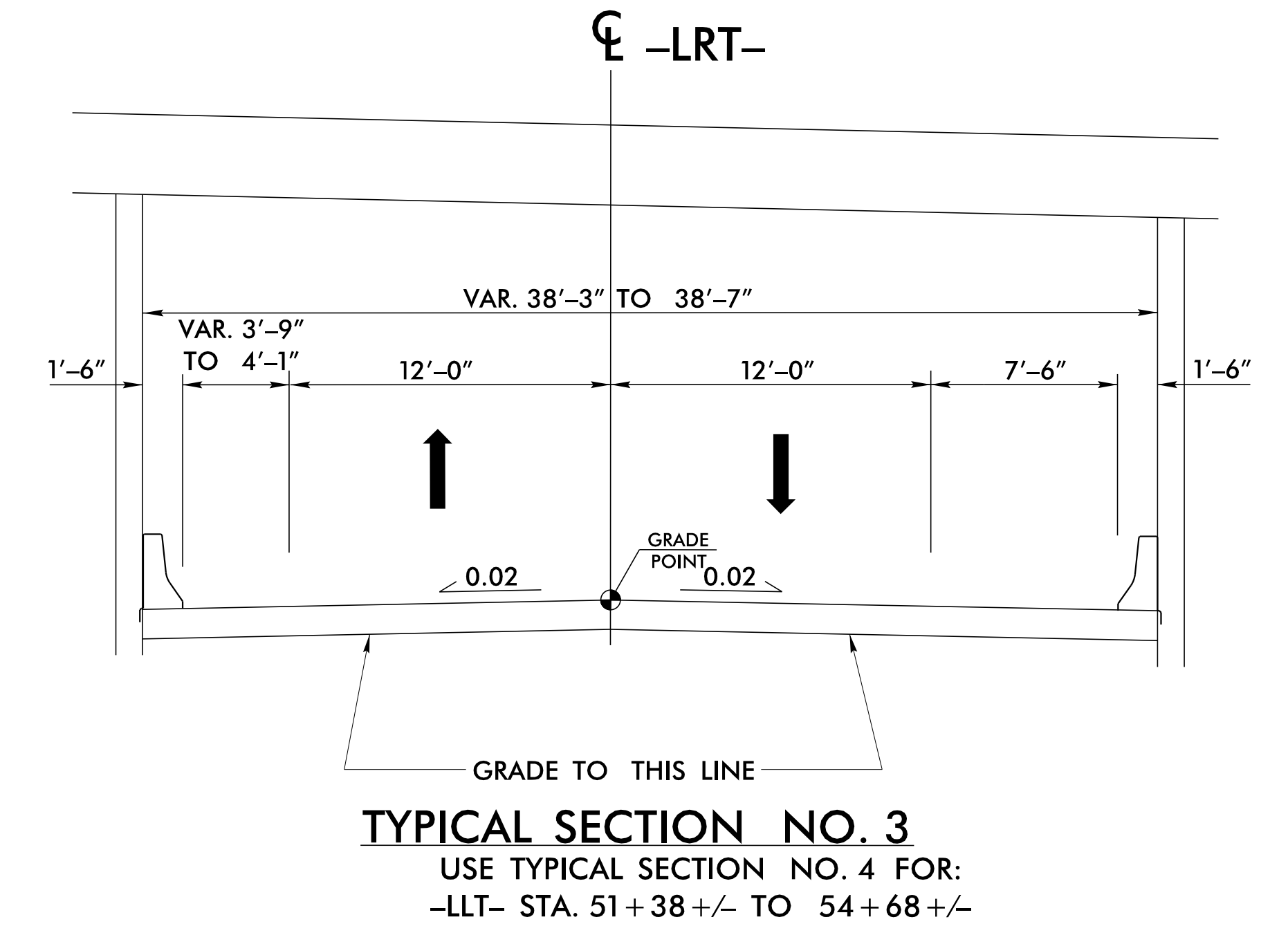
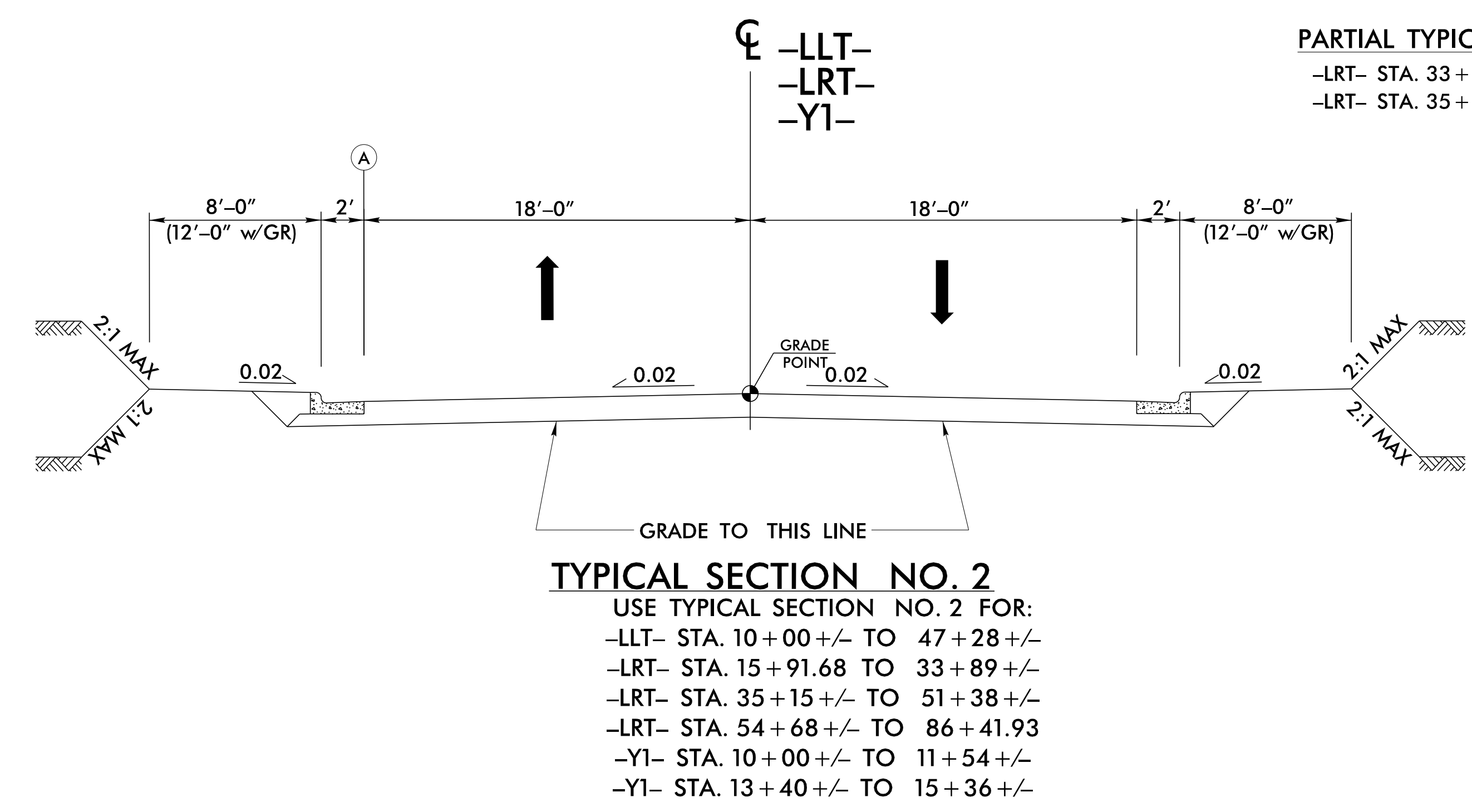
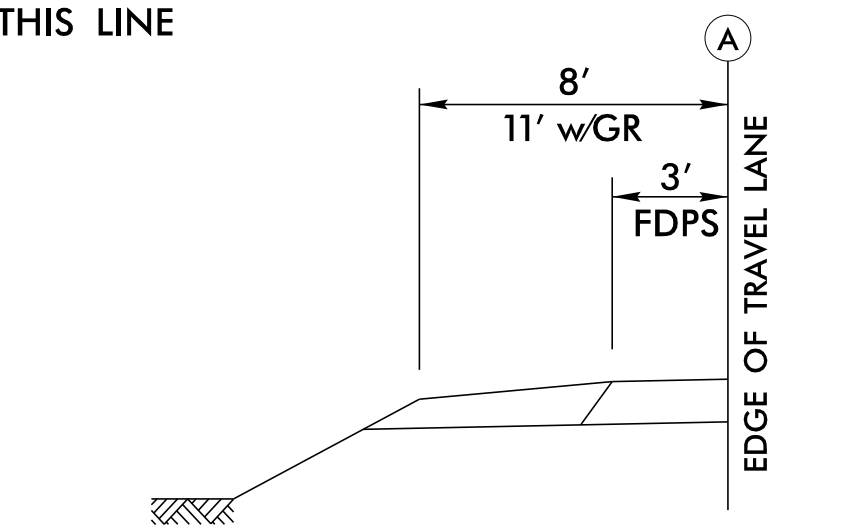
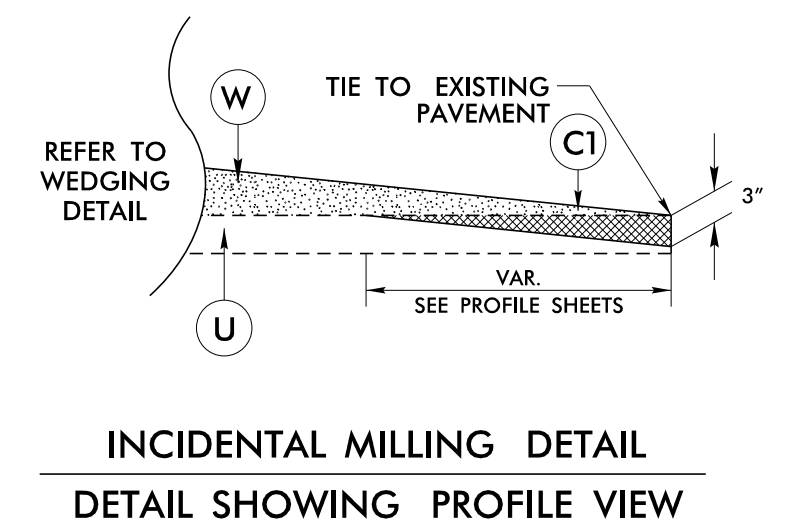
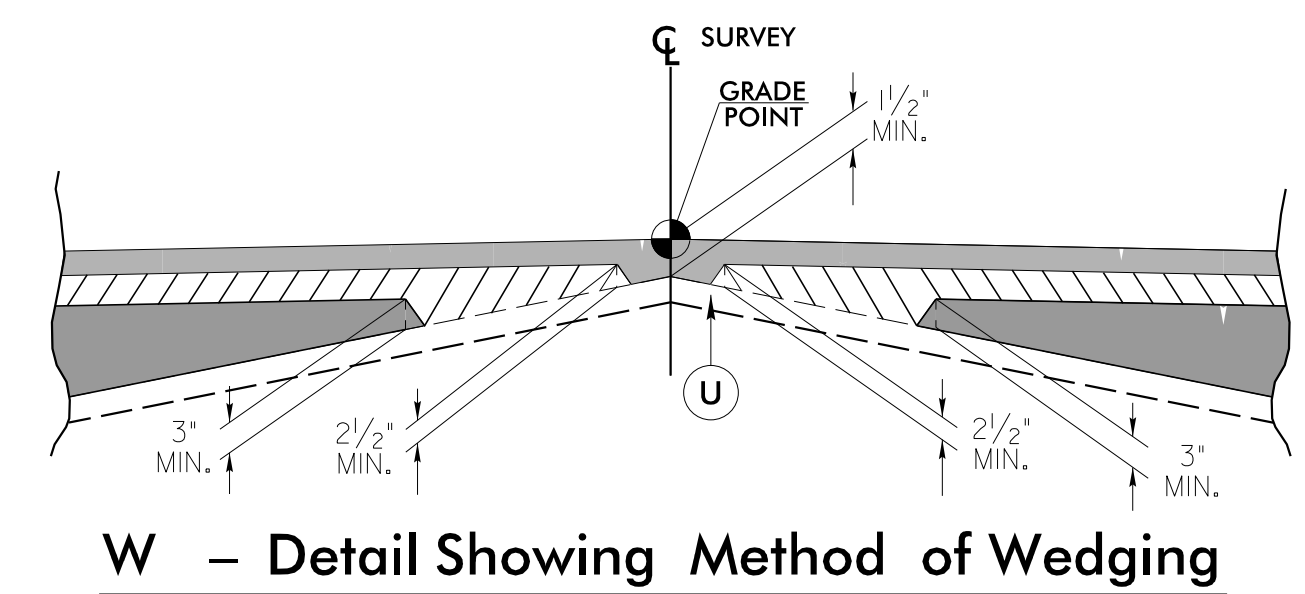
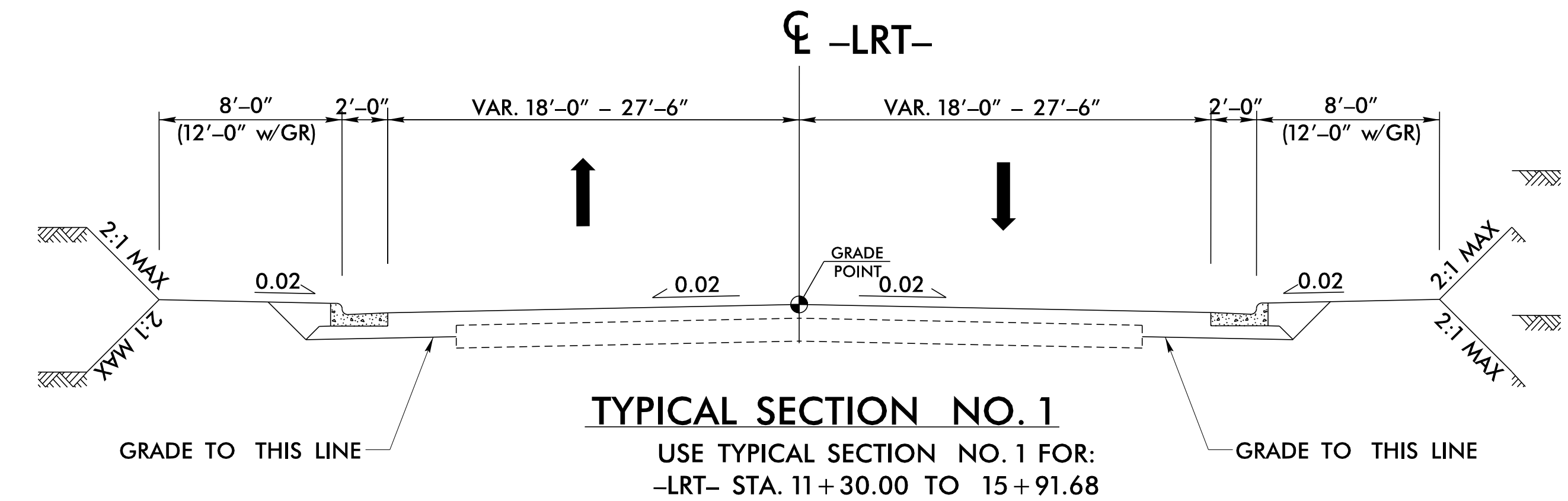
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	⊗
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

**MISCELLANEOUS:**

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line (SUE - LOS B)*	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PROJECT REFERENCE NO. HE-0005		SHEET NO. 2A-1	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER		
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION			
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		<b>M</b> MOTT MACDONALD 7621 Purfoy Rd Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	

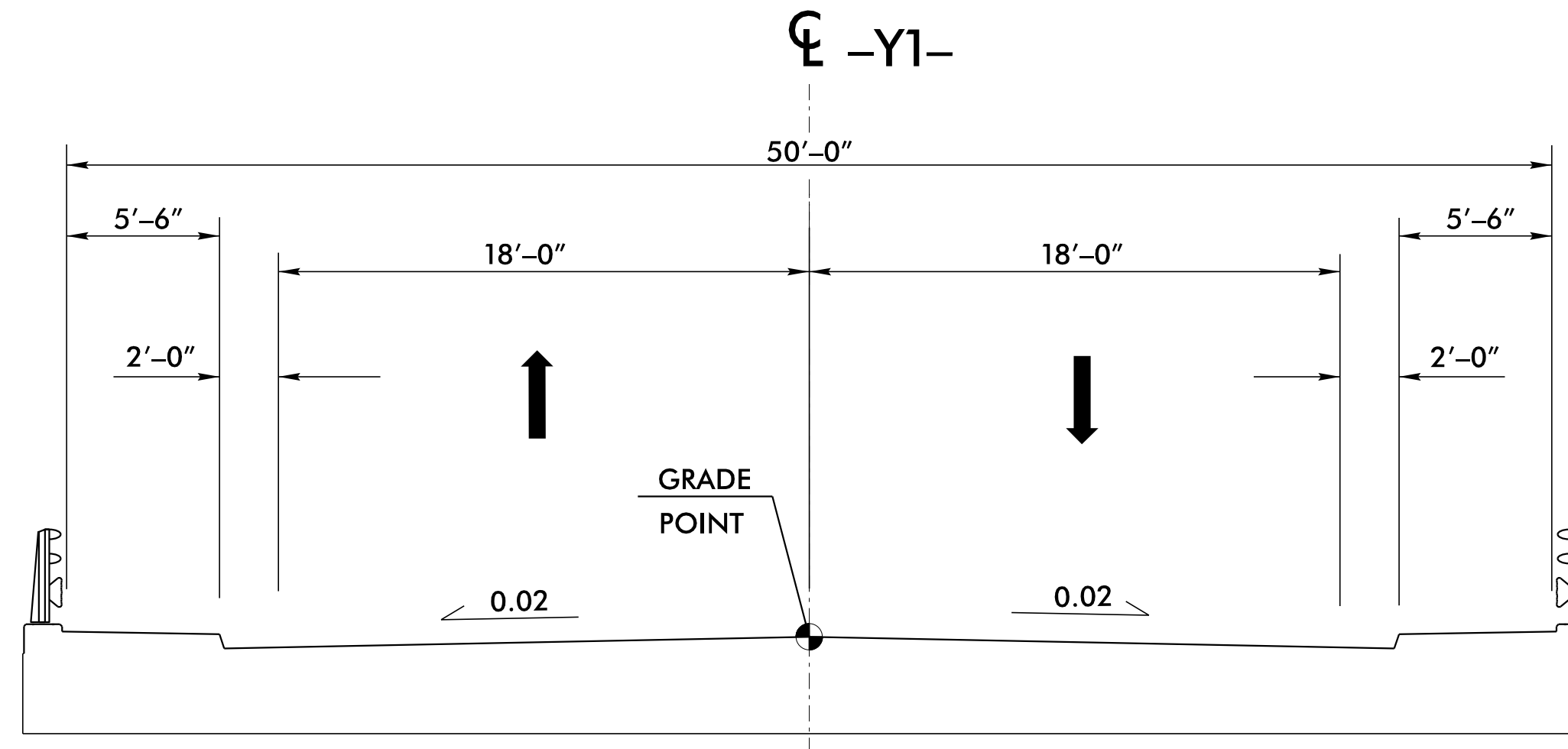
PRELIMINARY PAVEMENT SCHEDULE (AWAITING PAVEMENT DESIGN)					
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E2	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1 1/2" IN DEPTH.	E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.	T	EARTH MATERIAL.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	J1	6" AGGREGATE BASE COURSE.	U	EXISTING PAVEMENT.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R1	2'-6" CONCRETE CURB AND GUTTER.	W	VARIABLE DEPTH ASPHALT PAVEMENT. (SEE WEDGING DETAIL)
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R2	SHOULDER BERM GUTTER	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	



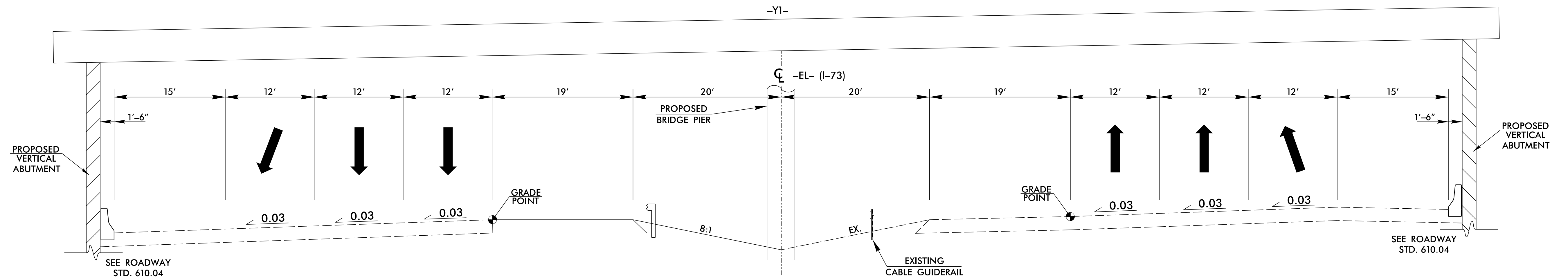
8/17/99

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. <i>2A-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD
	7621 Purfoy Rd Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas

# BRIDGE AT -Y1- STA. 12 + 47.90 OVER -EL- STA. 16 + 82.90



**STRUCTURE TYPICAL SECTION**



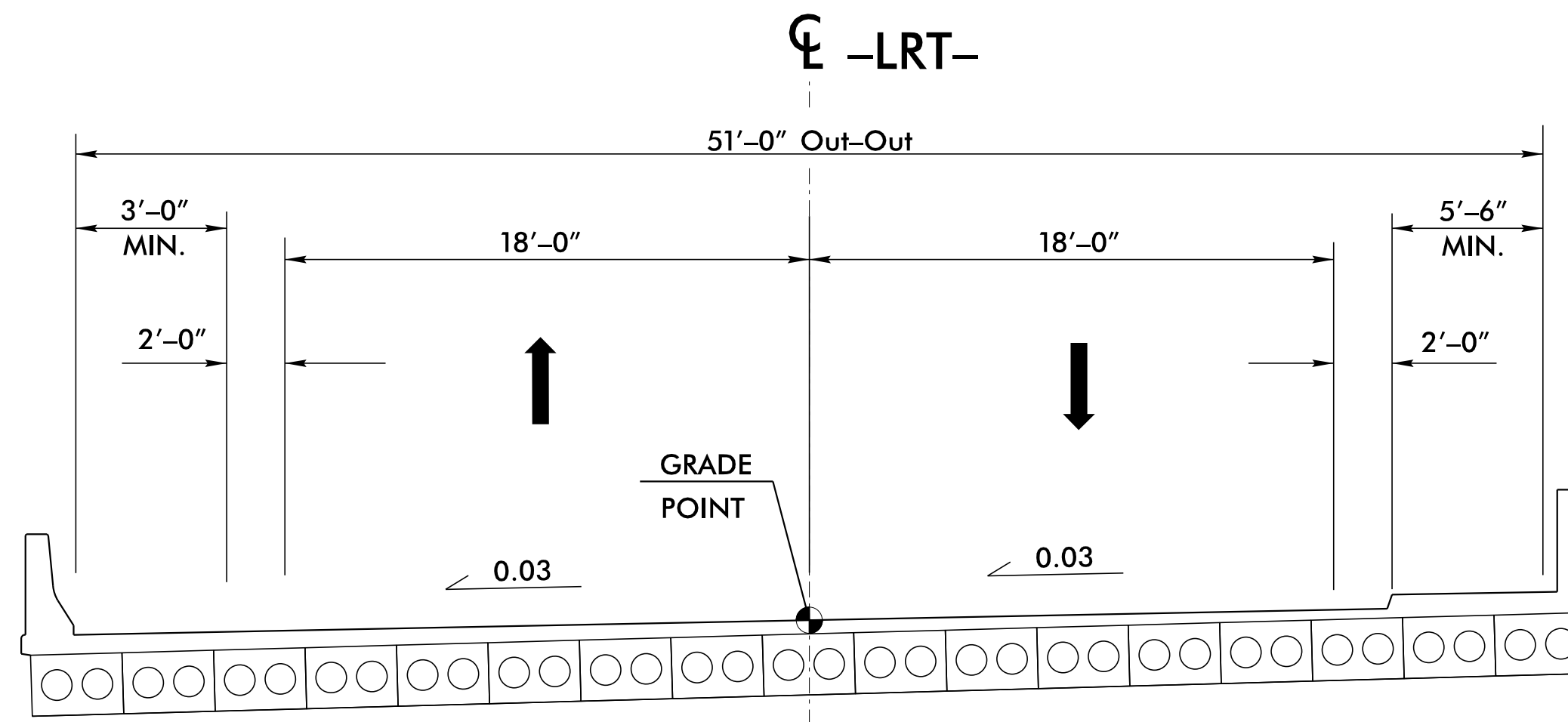
**TYPICAL SECTION UNDER STRUCTURE**

5/10/2022  
 R:\Roadway\Pro\B00M\_r.dwg - typ.dgn  
 0082619

8/17/99

PROJECT REFERENCE NO. <i>HE-0005</i>		SHEET NO. <i>2A-3</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION			
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:		<b>M</b> MOTT MACDONALD	
		7621 Purfoy Rd Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	

# BRIDGE AT -LRT- STA. 34 + 55 OVER BRUSH CREEK TRIBUTARY



STRUCTURE TYPICAL SECTION

5/10/2022  
 R:\Roadway\Pro\B00M\_rdy\_tjg.dgn  
 WAI 28249

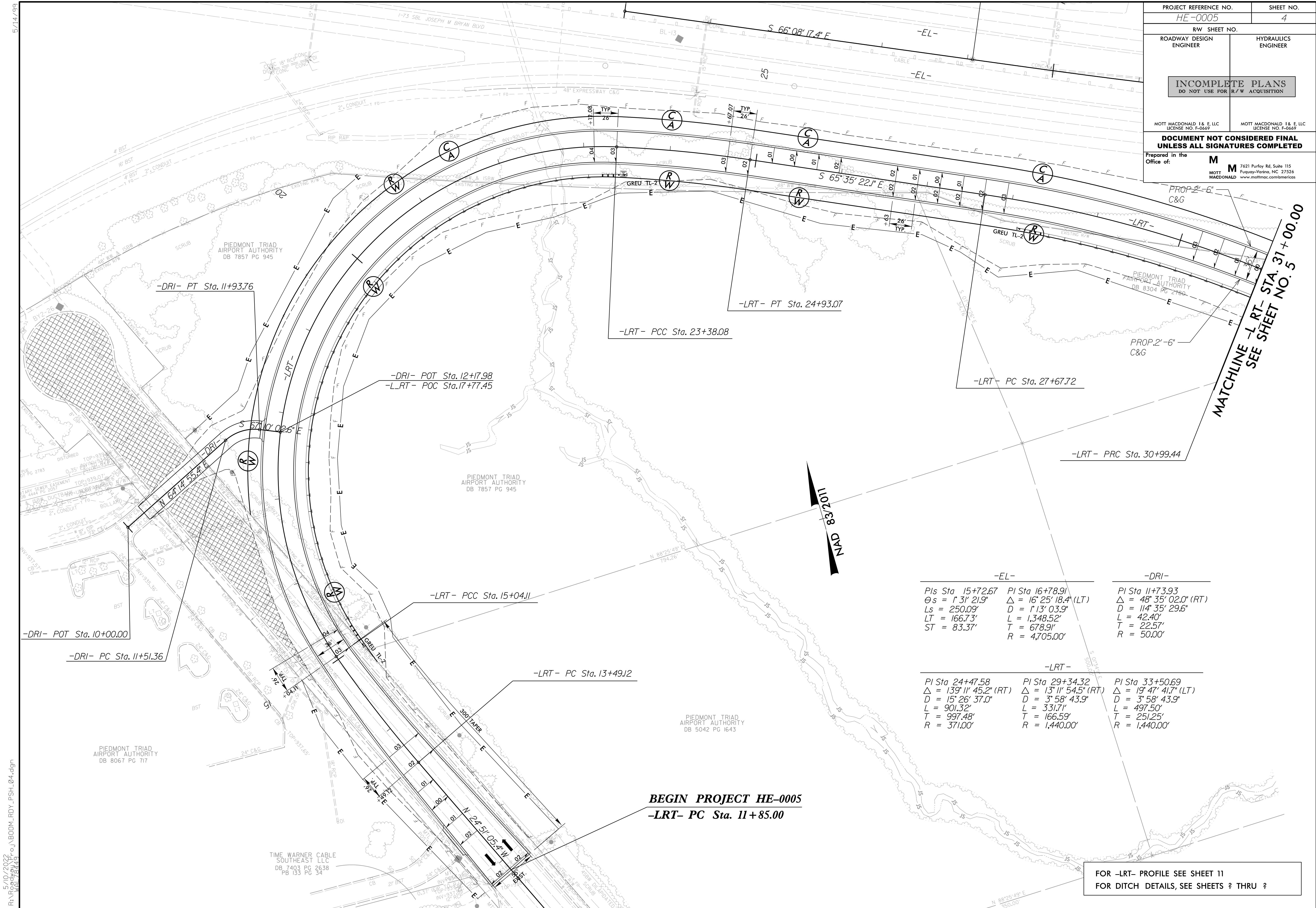
DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK  
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-LRT- 11+85.00 TO 33+77.00	566		46,595	46,029	
-LRT- 35+17.00 TO 86+41.93	86,719		72,539		14,180
-LLT- 24+00.00 TO 47+28.11	6,681		61,755	55,074	
-Y1- 10+18.00 TO 11+60.31			16,340	16,340	
-Y1- 13+34.86 TO 15+00.00			23,719	23,719	
-DR1- 10+25.00 TO 11+99.97	35		756	721	
<b>PROJECT SUBTOTAL</b>	<b>94,001</b>	<b>0</b>	<b>221,704</b>	<b>141,883</b>	<b>14,180</b>
ADDITIONAL UNDERCUT					
MATERIAL FOR SHOULDER CONSTRUCTION					
WASTE IN LIEU OF BORROW					
LOSS DUE TO CLEARING & GRUBBING					
SELECT GRANULAR IN LIEU OF BORROW					
SURCHARGE					
<b>PROJECT TOTAL</b>	<b>94,001</b>	<b>0</b>	<b>221,704</b>	<b>141,883</b>	<b>14,180</b>
5% TO REPLACE BORROW					
<b>GRAND TOTAL</b>	<b>94,001</b>	<b>0</b>	<b>221,704</b>	<b>141,883</b>	<b>14,180</b>
<b>SAY</b>	<b>99,000</b>	<b>0</b>		<b>149,000</b>	

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGNER. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/america



-EL-		-DRI-	
PI Sta 15+72.67	PI Sta 16+78.91	PI Sta 11+73.93	
$\Delta s = 1' 31' 21.9''$	$\Delta = 16' 25' 18.4''$ (LT)	$\Delta = 48' 35' 02.0''$ (RT)	
$Ls = 250.09'$	$D = 1' 13' 03.9''$	$D = 114' 35' 29.6''$	
$LT = 166.73'$	$L = 1,348.52'$	$L = 42.40'$	
$ST = 83.37'$	$T = 678.91'$	$T = 22.57'$	
	$R = 4,705.00'$	$R = 50.00'$	

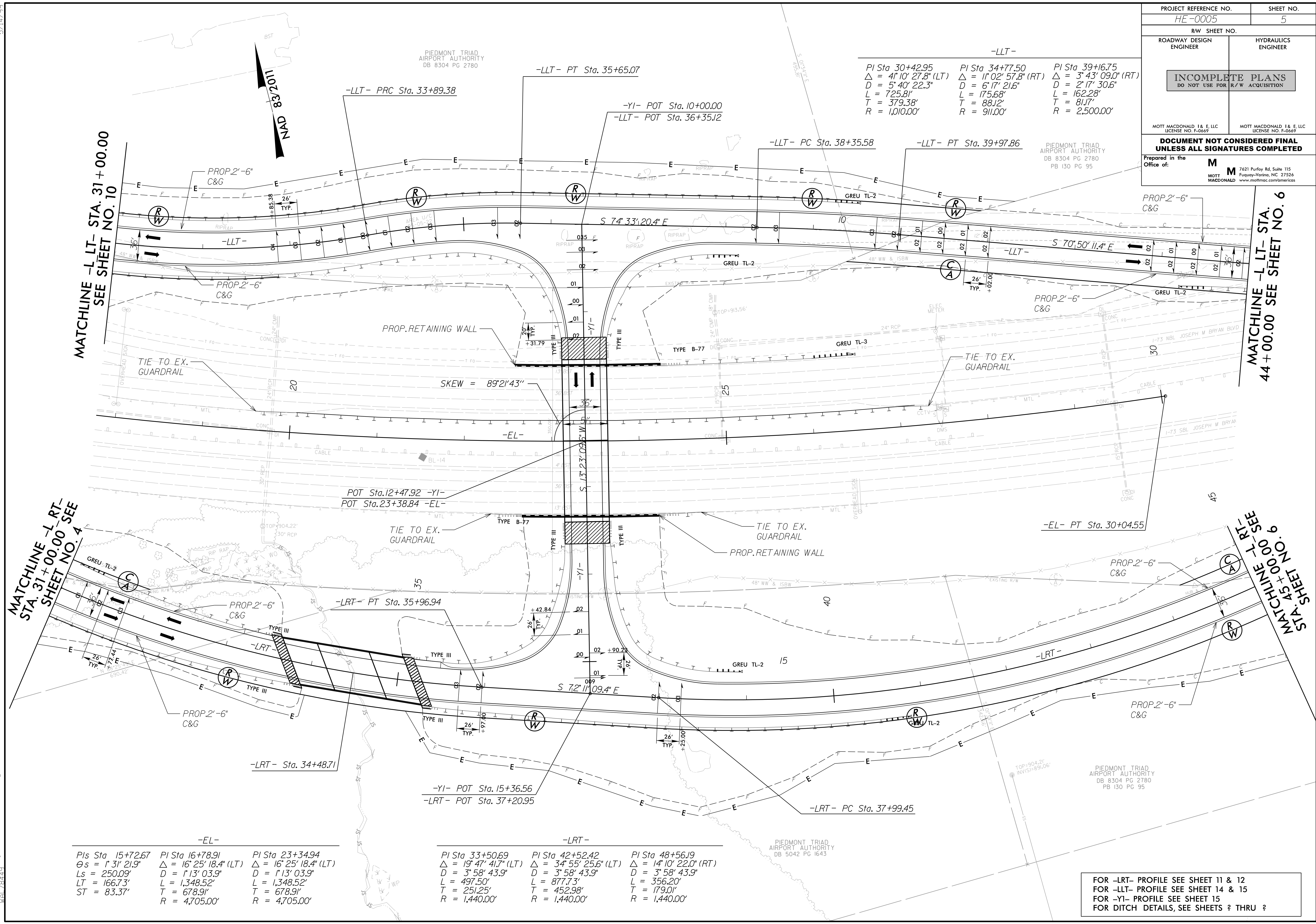
-LRT-		
PI Sta 24+47.58	PI Sta 29+34.32	PI Sta 33+50.69
$\Delta = 139' 11' 45.2''$ (RT)	$\Delta = 13' 11' 54.5''$ (RT)	$\Delta = 19' 47' 41.7''$ (LT)
$D = 15' 26' 37.0''$	$D = 3' 58' 43.9''$	$D = 3' 58' 43.9''$
$L = 901.32'$	$L = 331.71'$	$L = 497.50'$
$T = 997.48'$	$T = 166.59'$	$T = 251.25'$
$R = 371.00'$	$R = 1,440.00'$	$R = 1,440.00'$

**BEGIN PROJECT HE-0005**  
**-LRT- PC Sta. 11+85.00**

FOR -LRT- PROFILE SEE SHEET 11  
FOR DITCH DETAILS, SEE SHEETS ? THRU ?

5/14/99  
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PROJECT REFERENCE NO. <i>HE-0005</i>		SHEET NO. 5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION			
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669		MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		MOTT MACDONALD 1 & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	



-LLT-		
PI Sta 30+42.95	PI Sta 34+77.50	PI Sta 39+16.75
$\Delta = 41^{\circ} 10' 27.8''$ (LT)	$\Delta = 11^{\circ} 02' 57.8''$ (RT)	$\Delta = 3^{\circ} 43' 09.0''$ (RT)
$D = 5^{\circ} 40' 22.3''$	$D = 6^{\circ} 17' 21.6''$	$D = 2^{\circ} 17' 30.6''$
$L = 725.81'$	$L = 175.68'$	$L = 162.28'$
$T = 379.38'$	$T = 88.12'$	$T = 81.17'$
$R = 1,010.00'$	$R = 911.00'$	$R = 2,500.00'$

-EL-		
PIs Sta 15+72.67	PI Sta 16+78.91	PI Sta 23+34.94
$\Theta_s = 1^{\circ} 31' 21.9''$	$\Delta = 16^{\circ} 25' 18.4''$ (LT)	$\Delta = 16^{\circ} 25' 18.4''$ (LT)
$L_s = 250.09'$	$D = 1^{\circ} 13' 03.9''$	$D = 1^{\circ} 13' 03.9''$
$LT = 166.73'$	$L = 1,348.52'$	$L = 1,348.52'$
$ST = 83.37'$	$T = 678.91'$	$T = 678.91'$
	$R = 4,705.00'$	$R = 4,705.00'$

-LRT-		
PI Sta 33+50.69	PI Sta 42+52.42	PI Sta 48+56.19
$\Delta = 19^{\circ} 47' 41.7''$ (LT)	$\Delta = 34^{\circ} 55' 25.6''$ (LT)	$\Delta = 14^{\circ} 10' 22.0''$ (RT)
$D = 3^{\circ} 58' 43.9''$	$D = 3^{\circ} 58' 43.9''$	$D = 3^{\circ} 58' 43.9''$
$L = 497.50'$	$L = 877.73'$	$L = 356.20'$
$T = 251.25'$	$T = 452.98'$	$T = 179.01'$
$R = 1,440.00'$	$R = 1,440.00'$	$R = 1,440.00'$

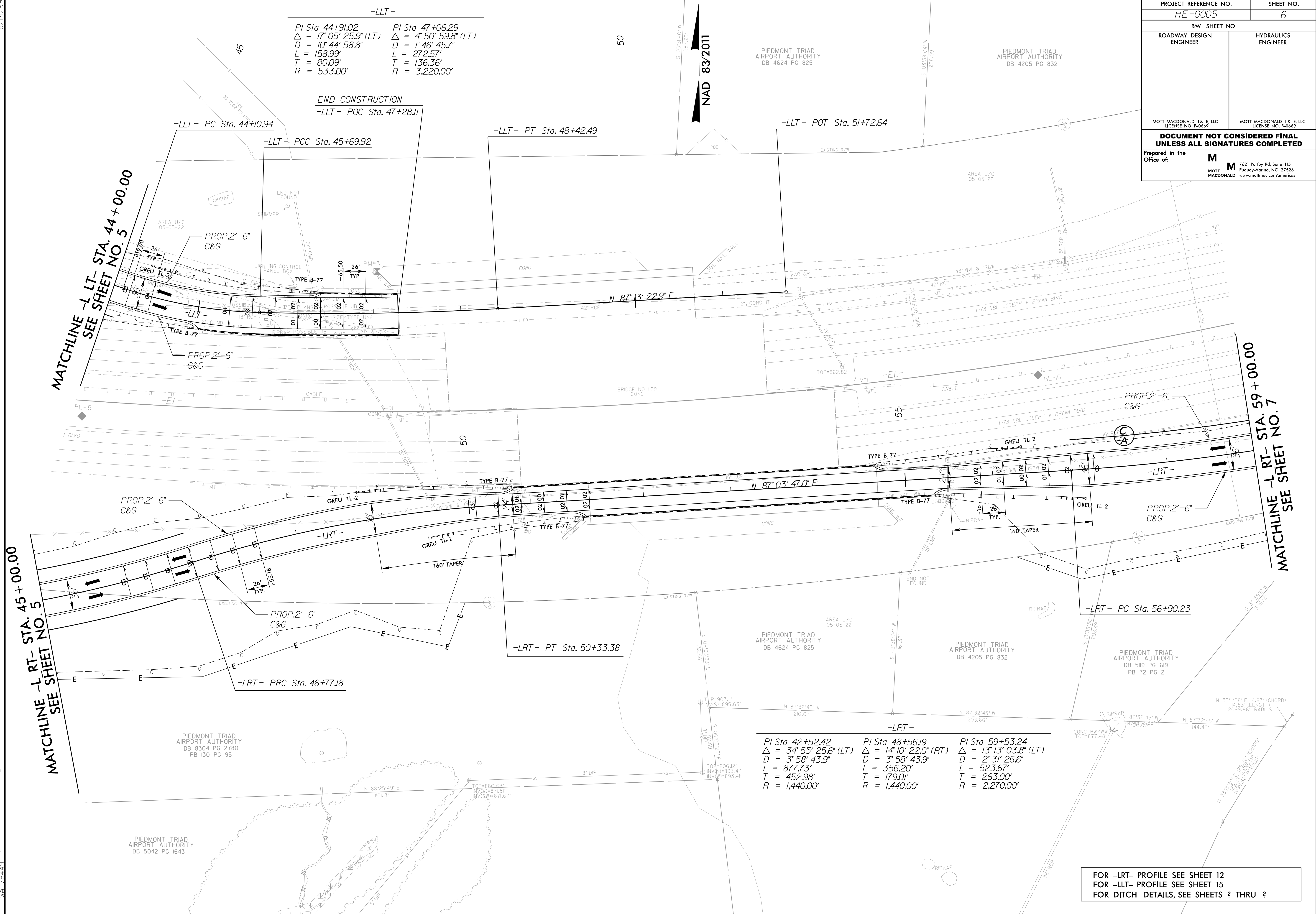
FOR -LRT- PROFILE SEE SHEET 11 & 12  
 FOR -LLT- PROFILE SEE SHEET 14 & 15  
 FOR -YI- PROFILE SEE SHEET 15  
 FOR DITCH DETAILS, SEE SHEETS ? THRU ?

5/14/99  
 R:\150242\150242\B00M.RDY\_PSH\_05.dgn  
 5/10/2002



PROJECT REFERENCE NO. <i>HE-0005</i>		SHEET NO. 6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
MOTT MACDONALD I & E LLC LICENSE NO. F-0669		MOTT MACDONALD I & E LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com/americas	

5/14/99  
 E:\10\_2022\15-CJ-BOOM-RDY\_PSH\_06.dgn  
 15-CJ-BOOM-RDY\_PSH\_06.dgn  
 5/14/99



-LLT-  
 PI Sta 44+91.02    PI Sta 47+06.29  
 $\Delta = 17^\circ 05' 25.9" (LT)$      $\Delta = 4^\circ 50' 59.8" (LT)$   
 $D = 10^\circ 44' 58.8"$      $D = 1^\circ 46' 45.7"$   
 $L = 158.99'$      $L = 272.57'$   
 $T = 80.09'$      $T = 136.36'$   
 $R = 533.00'$      $R = 3,220.00'$

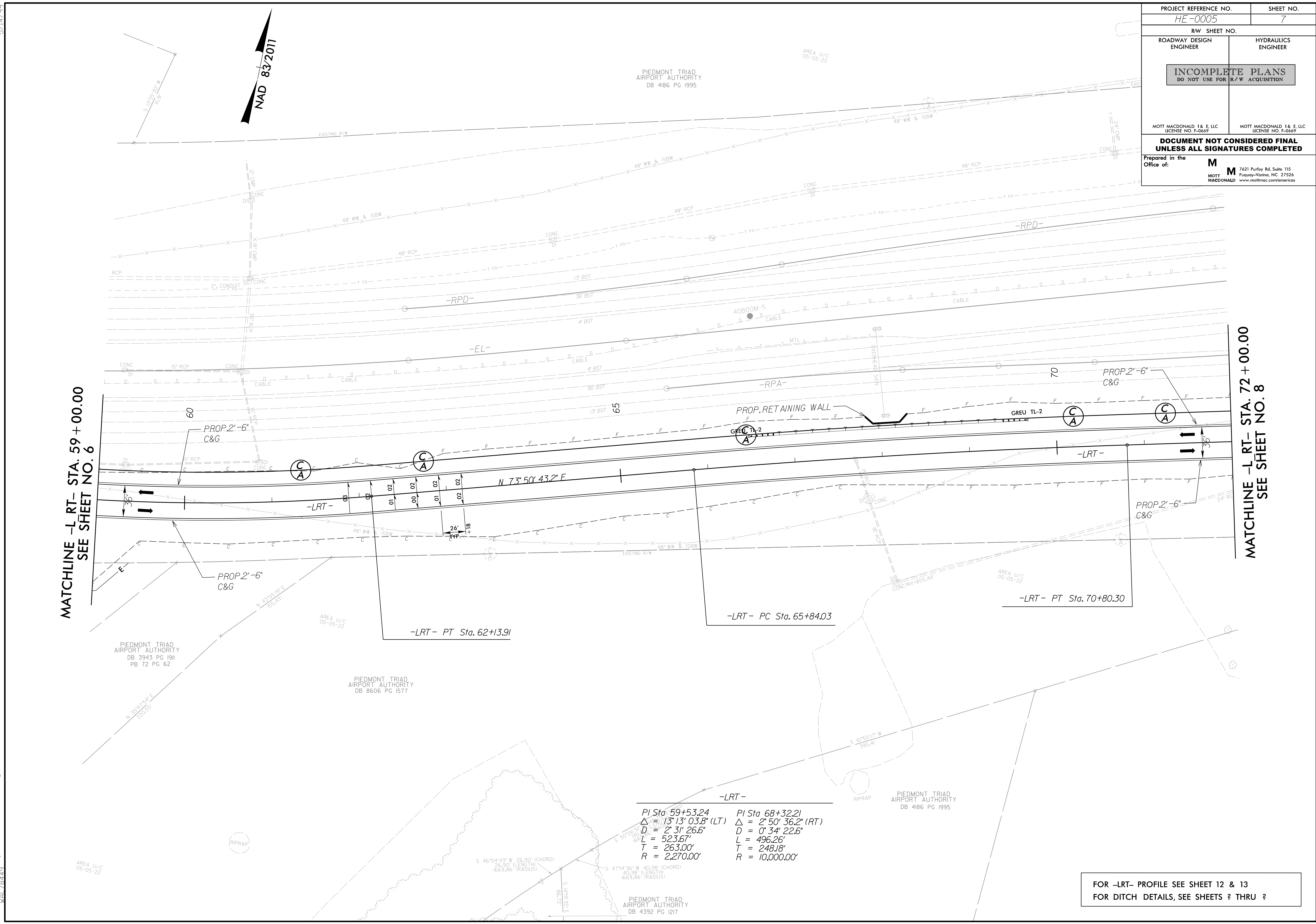
-LRT-  
 PI Sta 42+52.42    PI Sta 48+56.19    PI Sta 59+53.24  
 $\Delta = 34^\circ 55' 25.6" (LT)$      $\Delta = 14^\circ 10' 22.0" (RT)$      $\Delta = 13^\circ 13' 03.8" (LT)$   
 $D = 3^\circ 58' 43.9"$      $D = 3^\circ 58' 43.9"$      $D = 2^\circ 31' 26.6"$   
 $L = 877.73'$      $L = 356.20'$      $L = 523.67'$   
 $T = 452.98'$      $T = 179.01'$      $T = 263.00'$   
 $R = 1,440.00'$      $R = 1,440.00'$      $R = 2,270.00'$

FOR -LRT- PROFILE SEE SHEET 12  
 FOR -LLT- PROFILE SEE SHEET 15  
 FOR DITCH DETAILS, SEE SHEETS ? THRU ?

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com/americas

MATCHLINE -L RT- STA. 59 + 00.00  
SEE SHEET NO. 6

MATCHLINE -L RT- STA. 72 + 00.00  
SEE SHEET NO. 8



<p>PI Sta 59+53.24  <math>\Delta = 13' 13' 03.8''</math> (LT)  <math>D = 2' 31' 26.6''</math>  <math>L = 523.67'</math>  <math>T = 263.00'</math>  <math>R = 2,270.00'</math></p>	<p>PI Sta 68+32.21  <math>\Delta = 2' 50' 36.2''</math> (RT)  <math>D = 0' 34' 22.6''</math>  <math>L = 496.26'</math>  <math>T = 248.18'</math>  <math>R = 10,000.00'</math></p>
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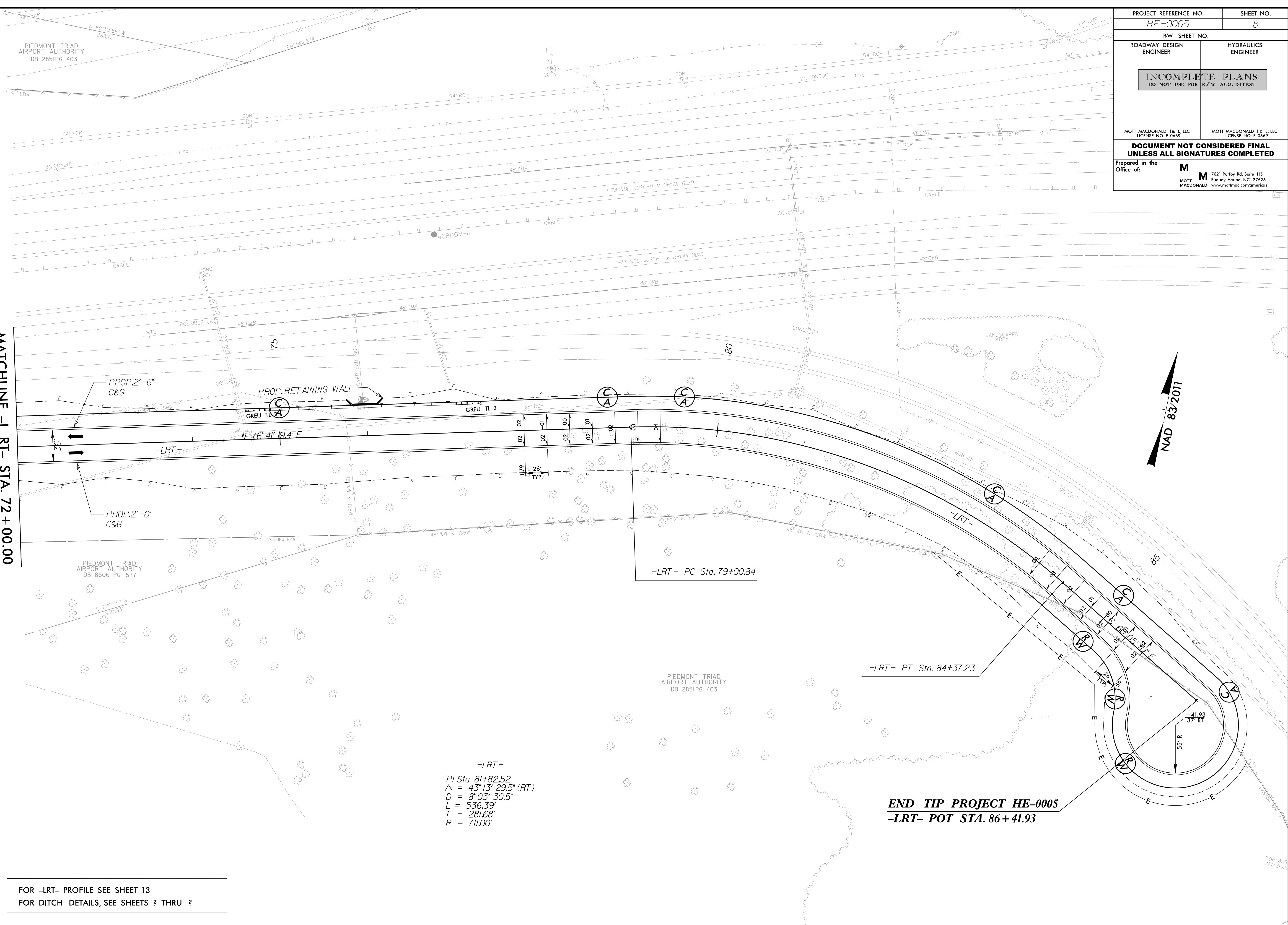
FOR -LRT- PROFILE SEE SHEET 12 & 13  
 FOR DITCH DETAILS, SEE SHEETS 7 THRU 9

5/14/99  
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 5/10/2022  
 R:\15\1504\150401\150401.dgn

5/14/99

PROJECT REFERENCE NO. <b>HE-0005</b>	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD I & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas

MATCHLINE -L RT- STA. 72+00.00  
SEE SHEET NO. 7



NAD 83/2011

-LRT-  
 PI Sta 81+82.52  
 $\Delta = 43^{\circ}13'29.5" (RT)$   
 $D = 8^{\circ}03'30.5"$   
 $L = 536.39'$   
 $T = 281.68'$   
 $R = 711.00'$

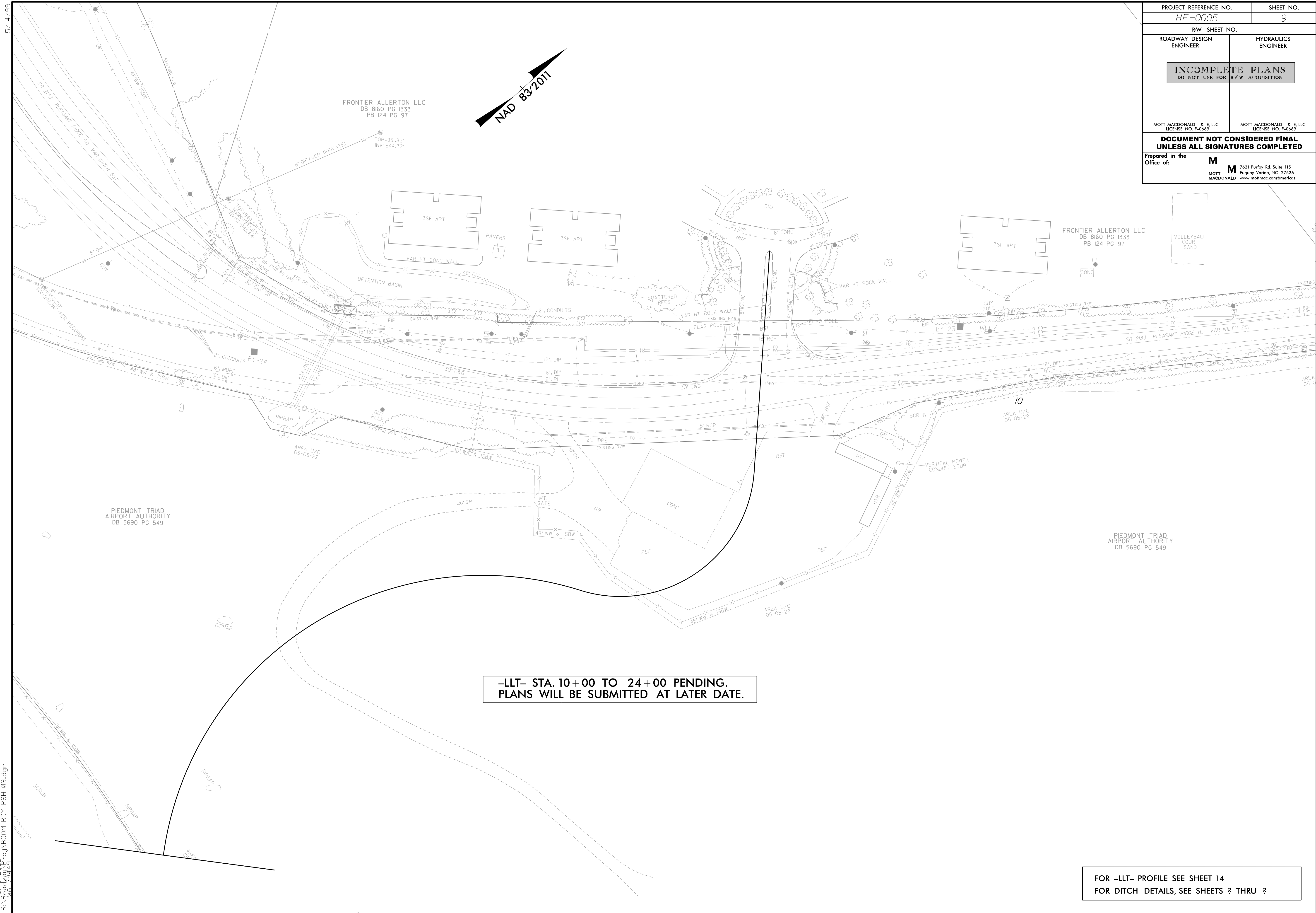
**END TIP PROJECT HE-0005**  
**-LRT- POT STA. 86+41.93**

FOR -LRT- PROFILE SEE SHEET 13  
 FOR DITCH DETAILS, SEE SHEETS 8 THRU 12

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TOP=826  
NW=815.5

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD I & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas



-LLT- STA. 10+00 TO 24+00 PENDING.  
PLANS WILL BE SUBMITTED AT LATER DATE.

FOR -LLT- PROFILE SEE SHEET 14  
FOR DITCH DETAILS, SEE SHEETS ? THRU ?

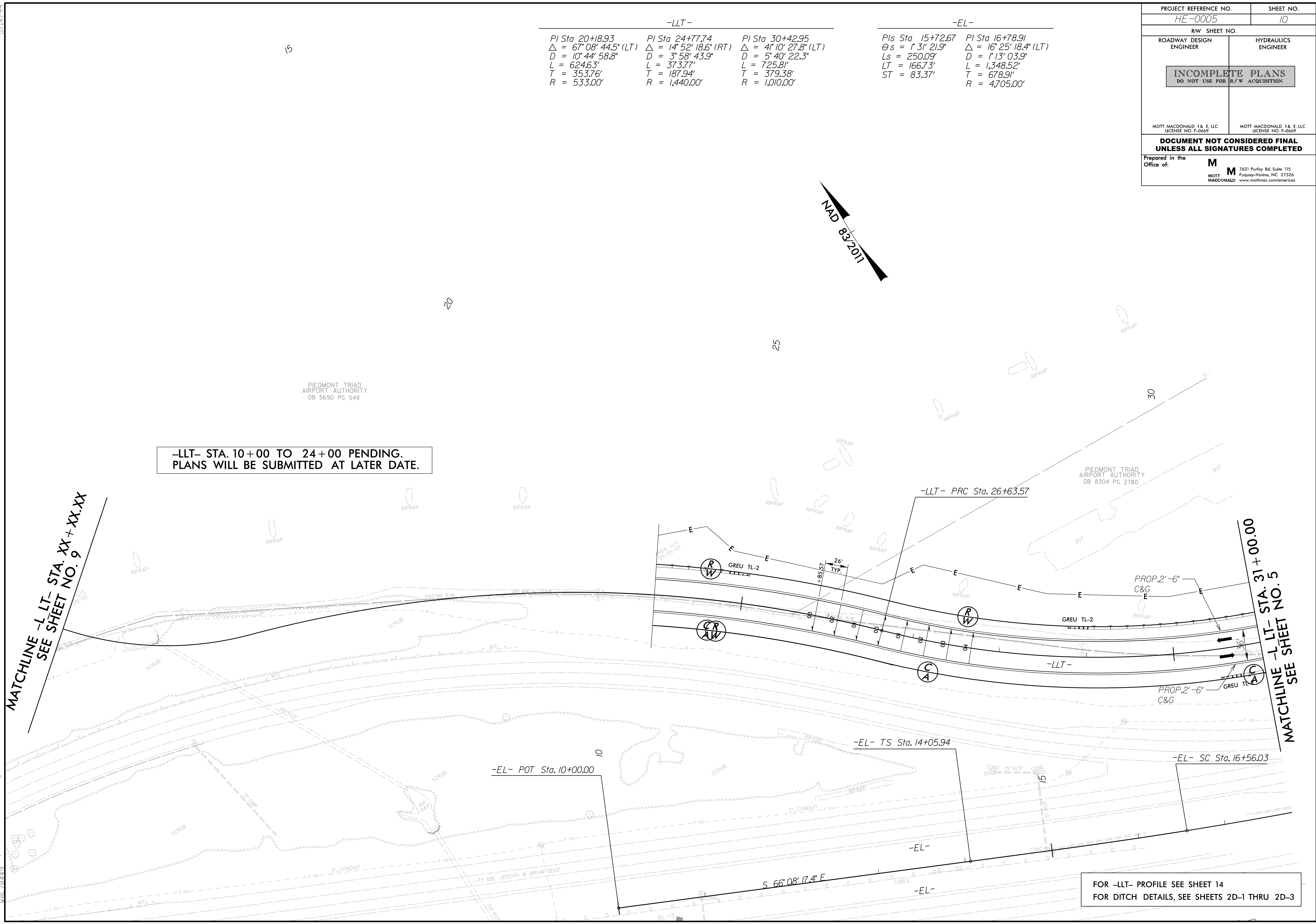
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5/14/99

R:\1510\2022\1510-0001\1510-0001.dgn

-LLT-			-EL-	
PI Sta 20+18.93	PI Sta 24+77.74	PI Sta 30+42.95	PIs Sta 15+72.67	PI Sta 16+78.91
$\Delta = 67^{\circ}08'44.5"$ (LT)	$\Delta = 14^{\circ}52'18.6"$ (RT)	$\Delta = 4^{\circ}10'27.8"$ (LT)	$\Theta_s = 1^{\circ}31'21.9"$	$\Delta = 16^{\circ}25'18.4"$ (LT)
D = 10'44'58.8"	D = 3'58'43.9"	D = 5'40'22.3"	Ls = 250.09'	D = 1'13'03.9"
L = 624.63'	L = 373.77'	L = 725.81'	LT = 166.73'	L = 1,348.52'
T = 353.76'	T = 187.94'	T = 379.38'	ST = 83.37'	T = 678.91'
R = 533.00'	R = 1,440.00'	R = 1,010.00'		R = 4,705.00'

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. <i>10</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com/americas

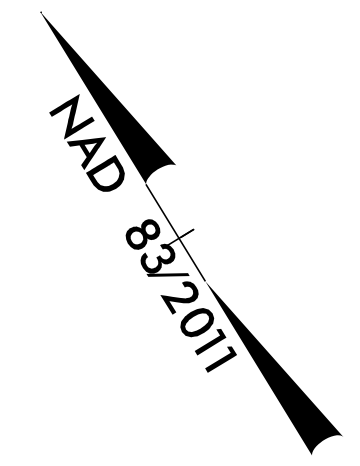


**-LLT- STA. 10+00 TO 24+00 PENDING.  
PLANS WILL BE SUBMITTED AT LATER DATE.**

**MATCHLINE -L LT- STA. XX+XX.XX  
SEE SHEET NO. 9**

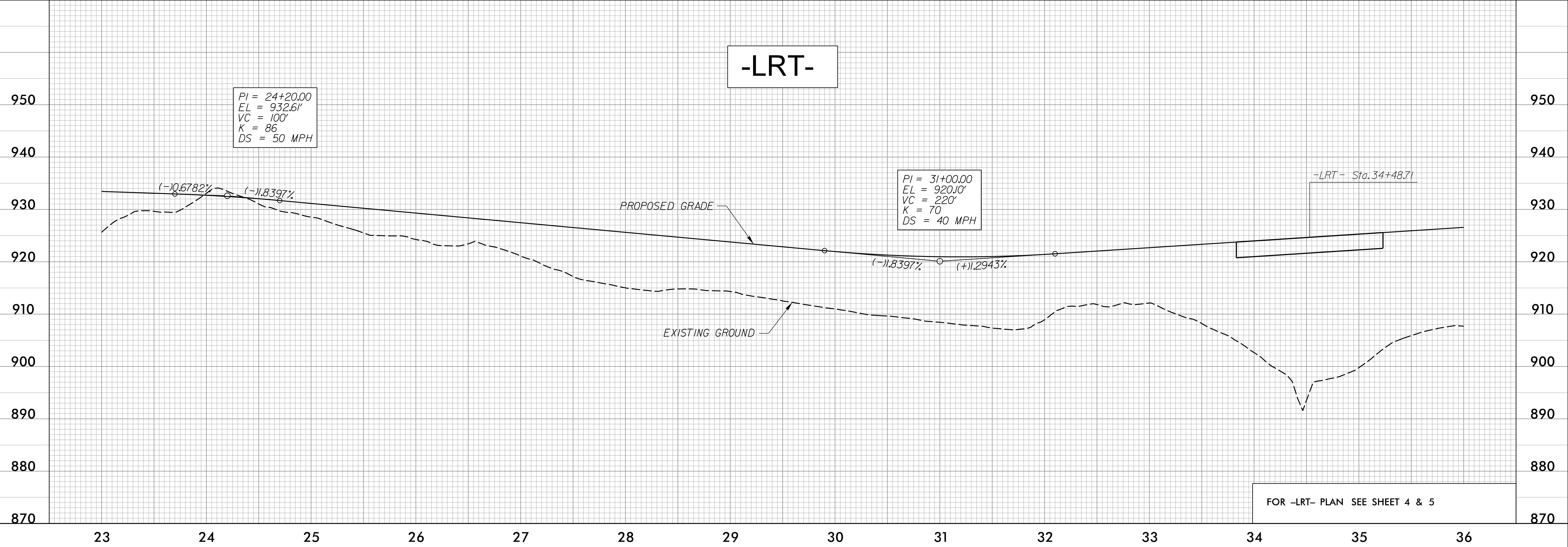
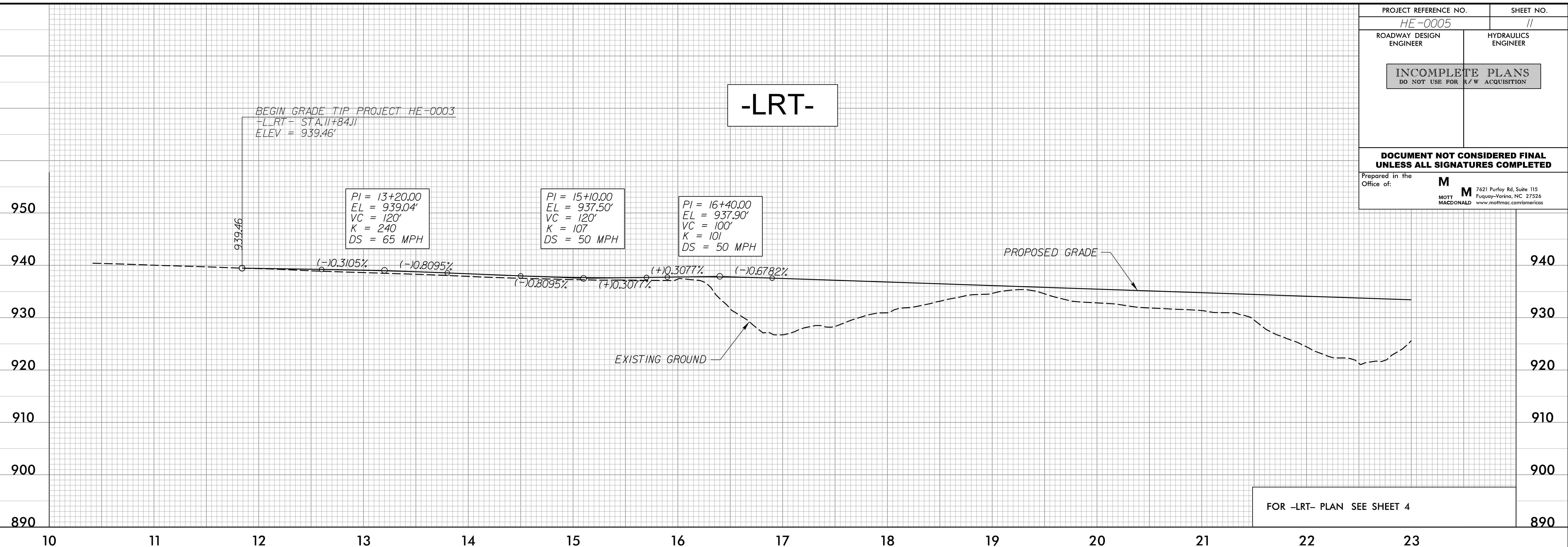
**MATCHLINE -L LT- STA. 31+00.00  
SEE SHEET NO. 5**

FOR -LLT- PROFILE SEE SHEET 14  
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3



5/28/99

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. <i>11</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD
	7621 Purfoy Rd, Suite 115 Fayetteville, NC 27526 www.mottmac.com/americas



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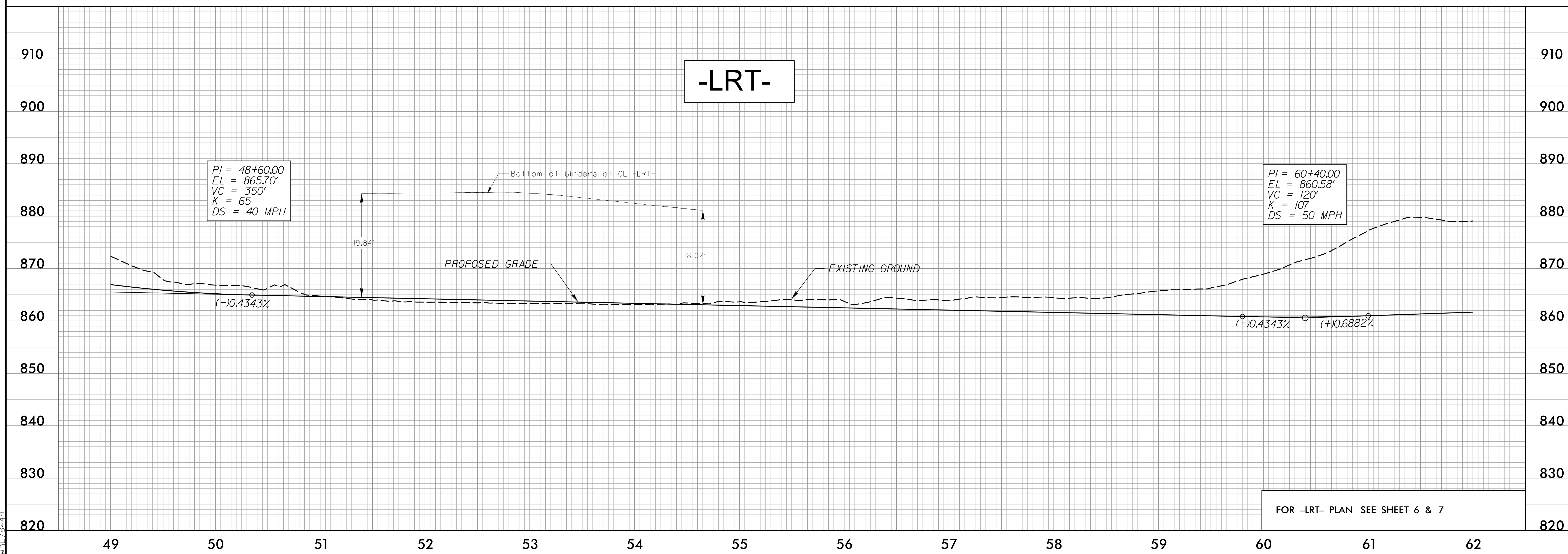
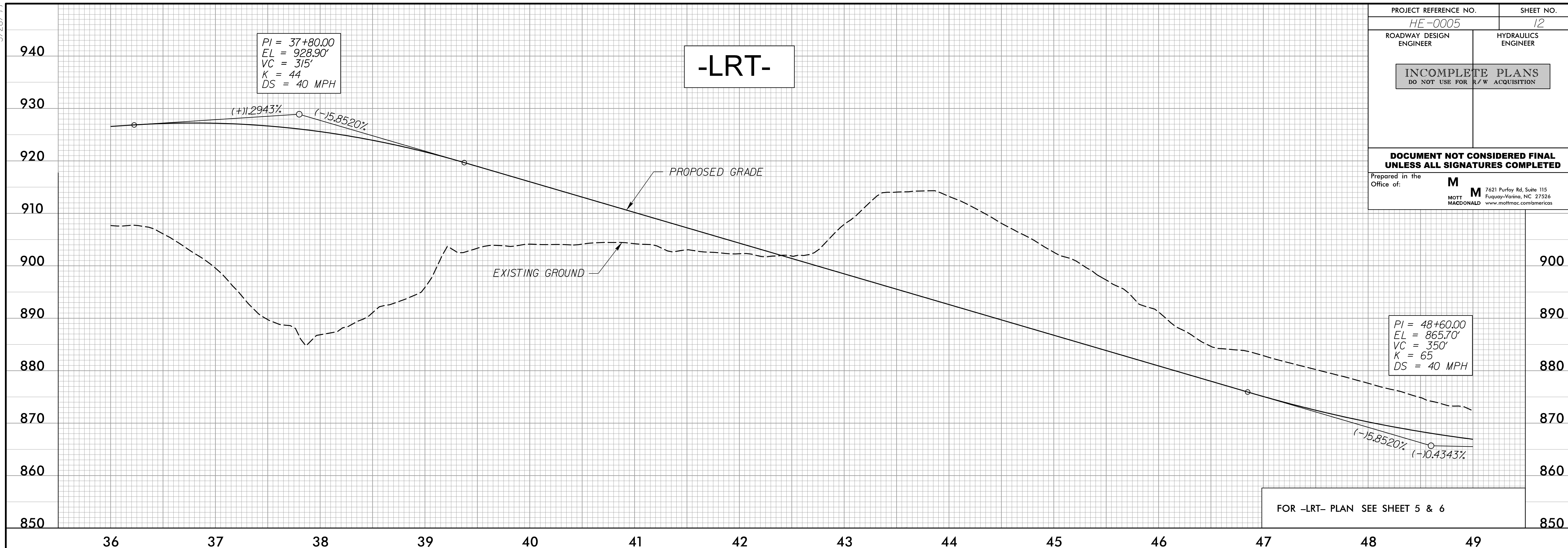
5/28/99

PROJECT REFERENCE NO. HE-0005	SHEET NO. 12
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

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 Fuquay-Varina, NC 27526  
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5/28/99

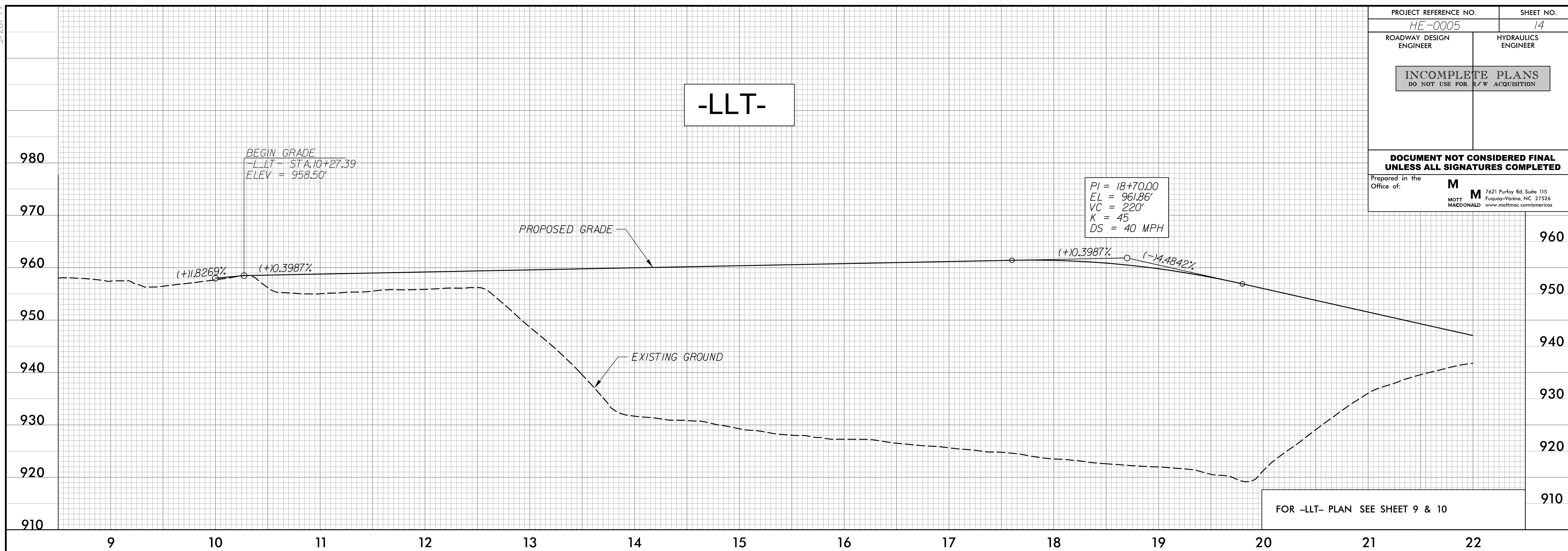
PROJECT REFERENCE NO. HE-0005 SHEET NO. 14

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

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Fuquay-Varina, NC 27526  
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FOR -LLT- PLAN SEE SHEET 9 & 10

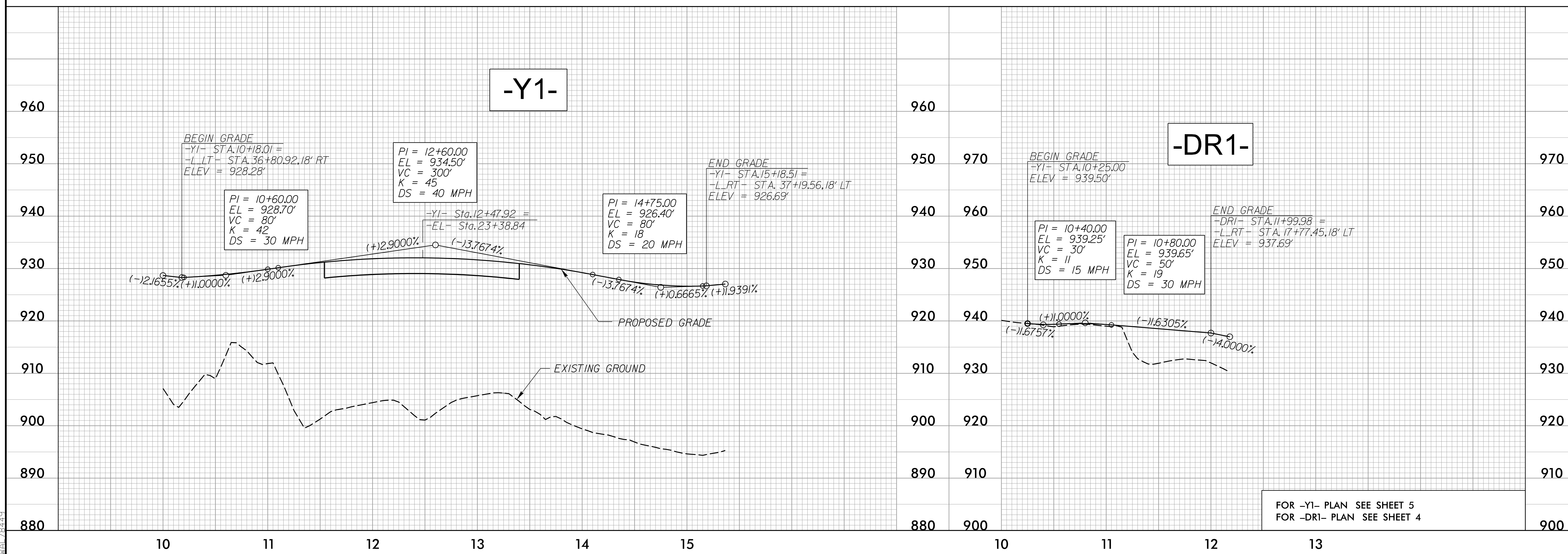
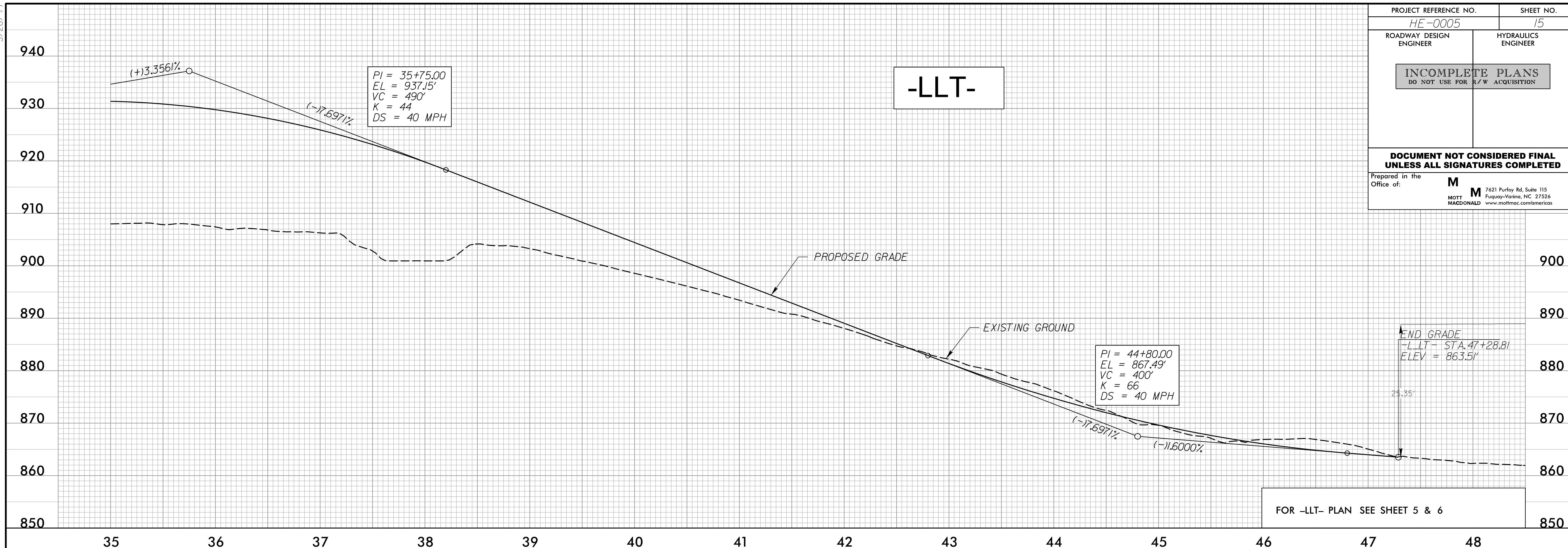


FOR -LLT- PLAN SEE SHEET 10 & 5

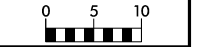
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5/28/99

PROJECT REFERENCE NO. <i>HE-0005</i>	SHEET NO. <i>15</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	<b>M</b> MOFF MACDONALD
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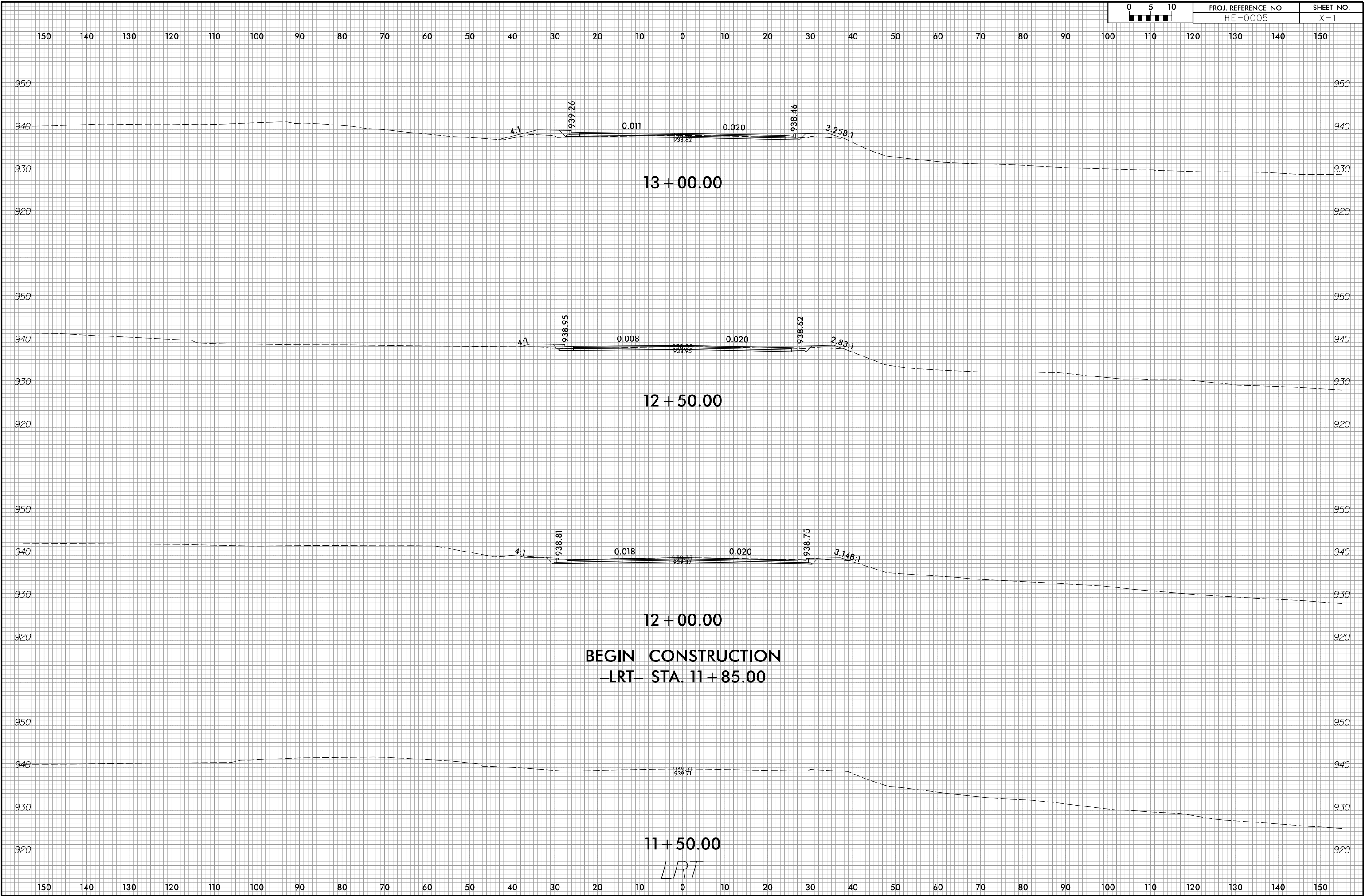


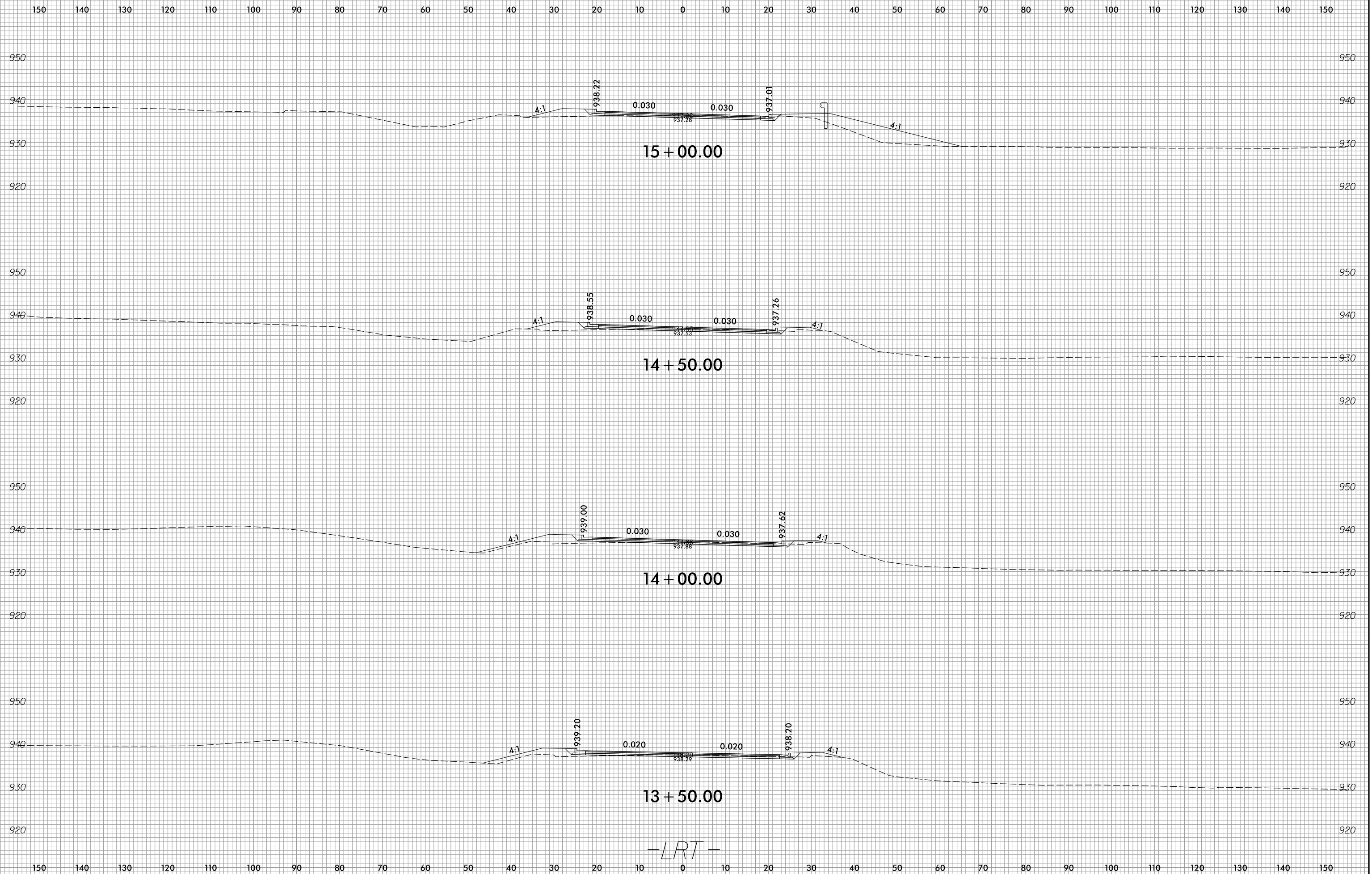
# *HE-0005*

## *CROSS SECTIONS*

### INDEX OF SHEETS

<u>TITLE</u>		<u>SHEET NO.</u>
CROSS SECTION SUMMARY		X-A
-L_RT-		X-1 THRU X-48
-L_LT-		X-49 THRU X-68
-Y1-		X-69 THRU X-73
-EL-		X-74 THRU X-80
-DR1-		X-81 THRU X-82

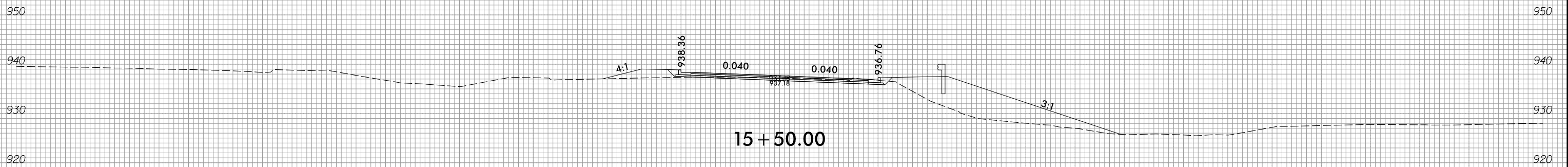
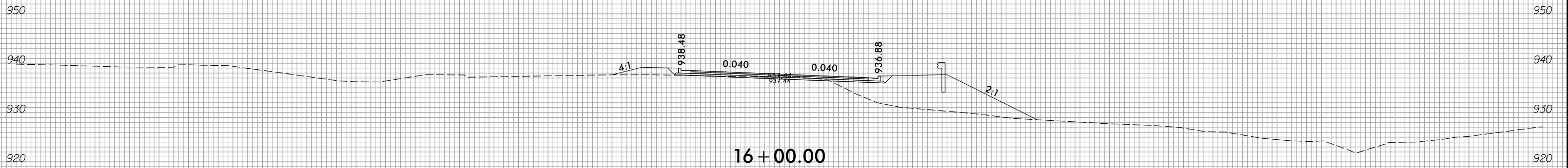
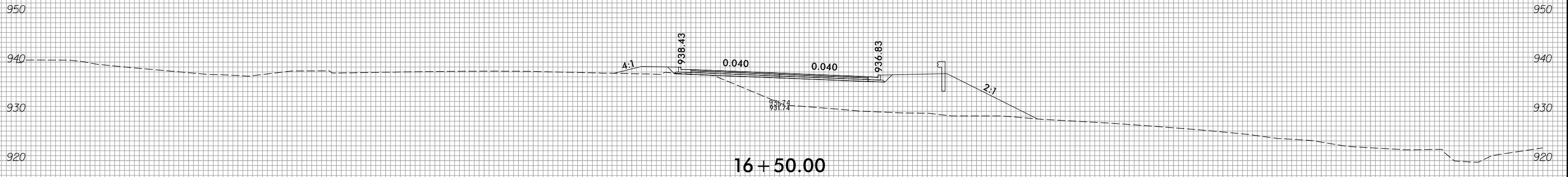




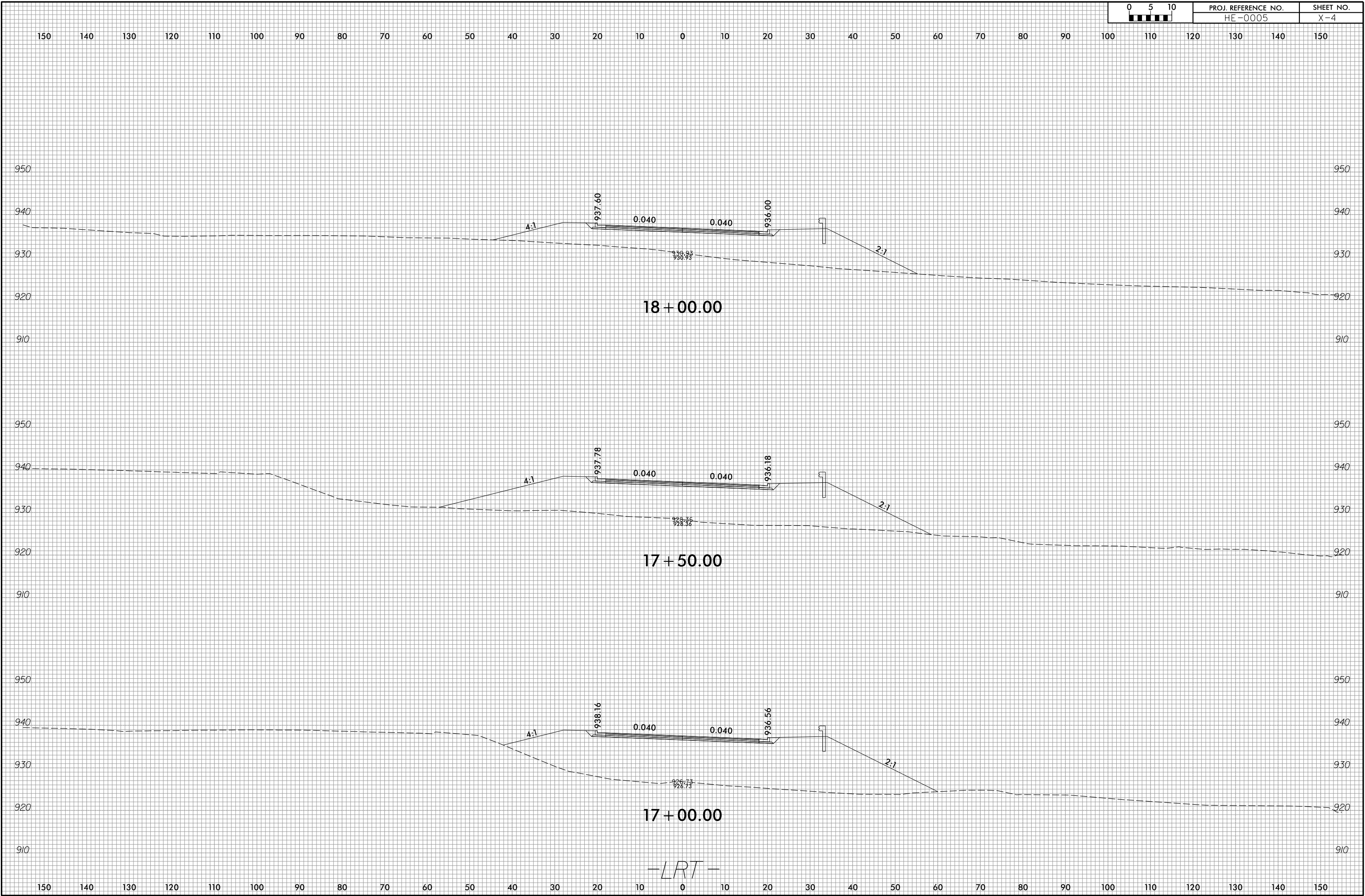
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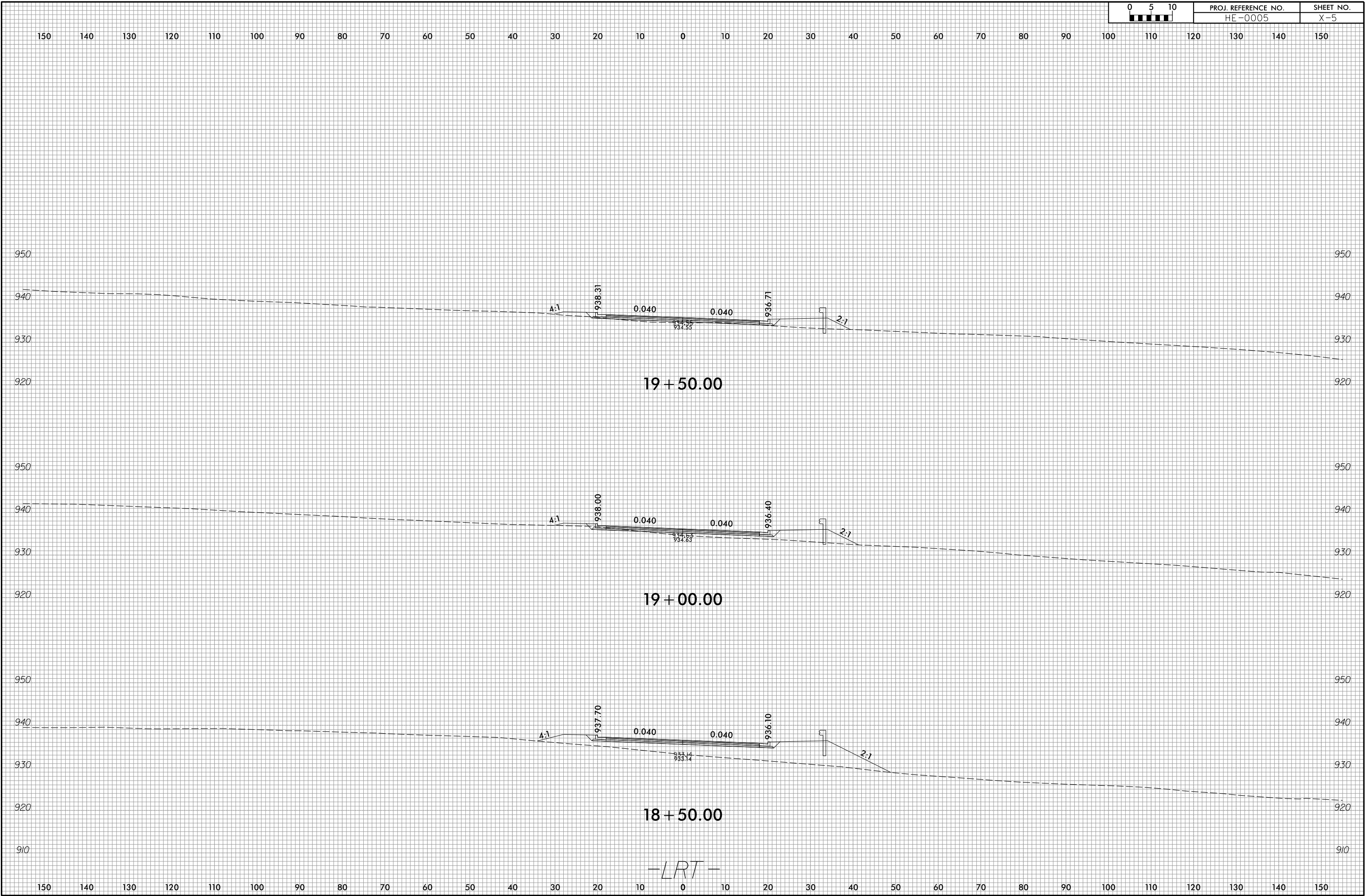


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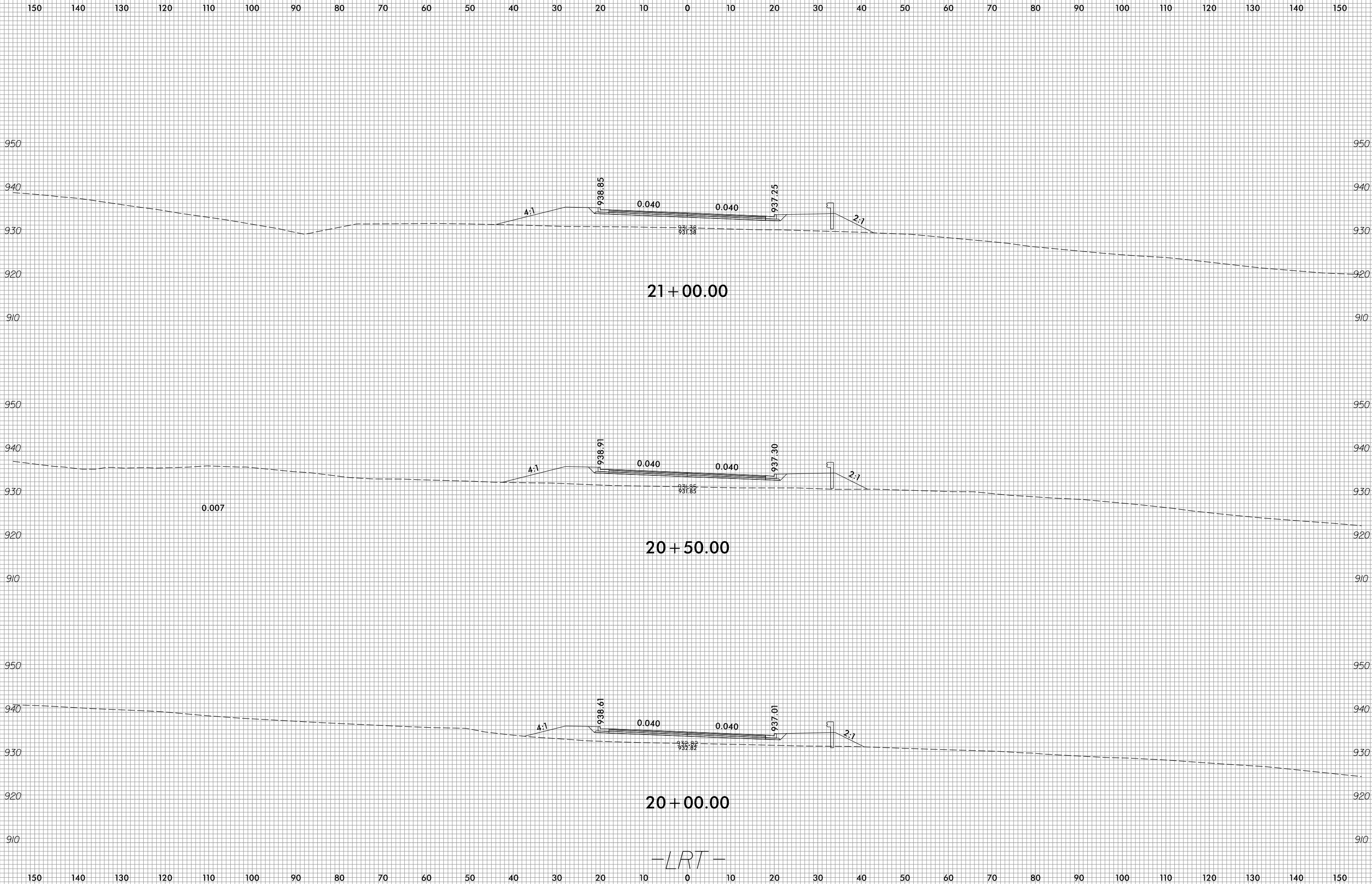
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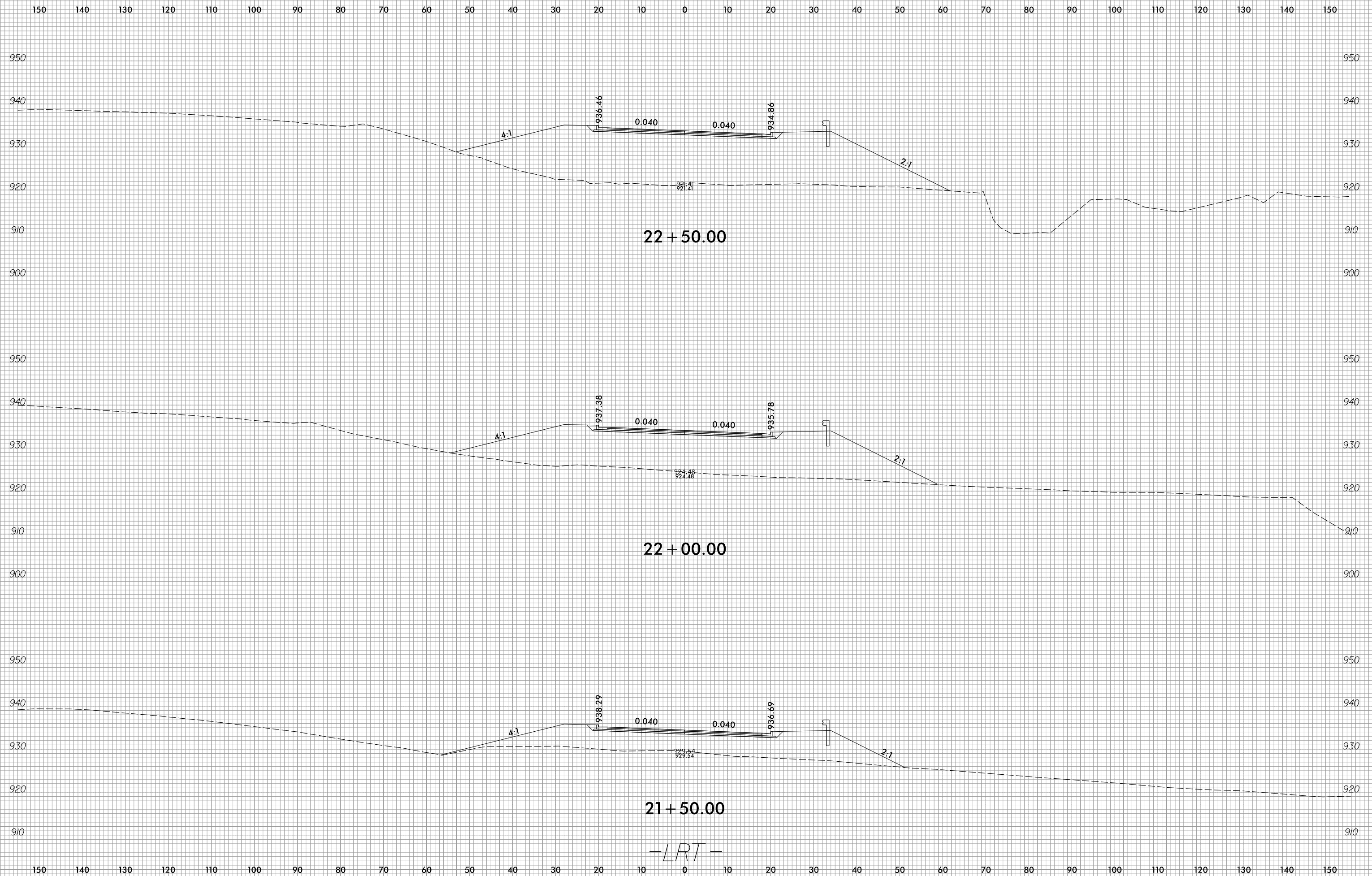


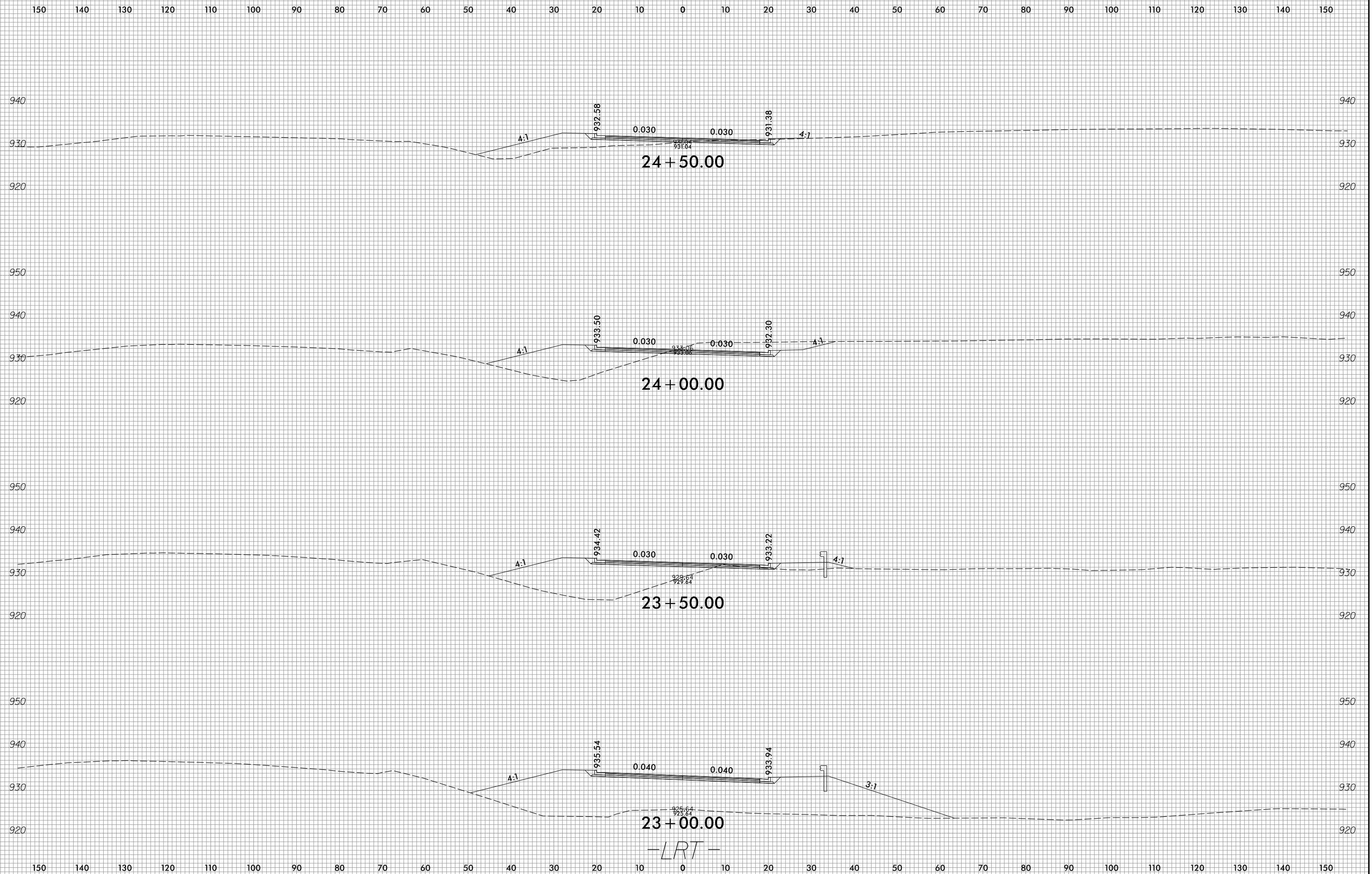
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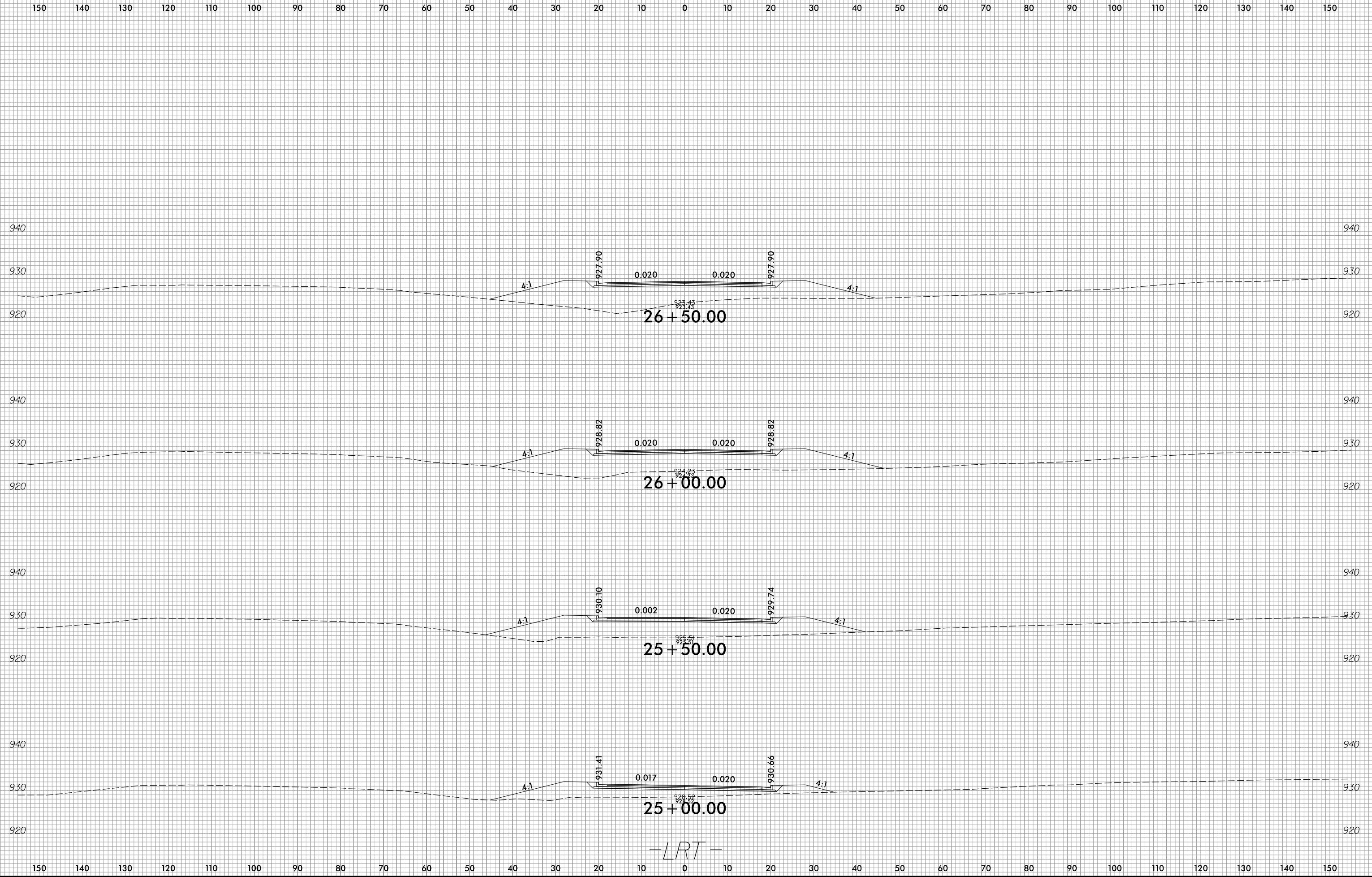


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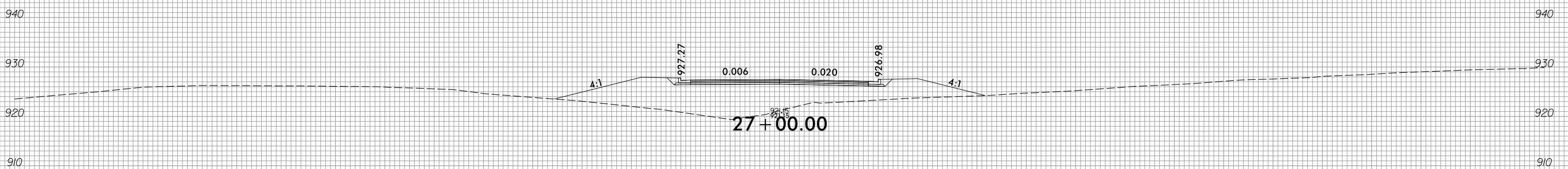
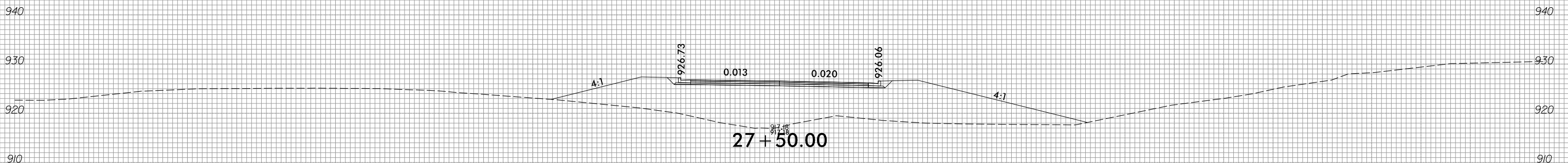
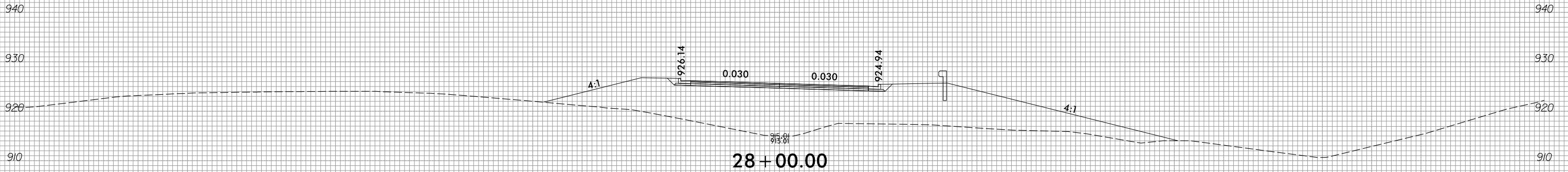


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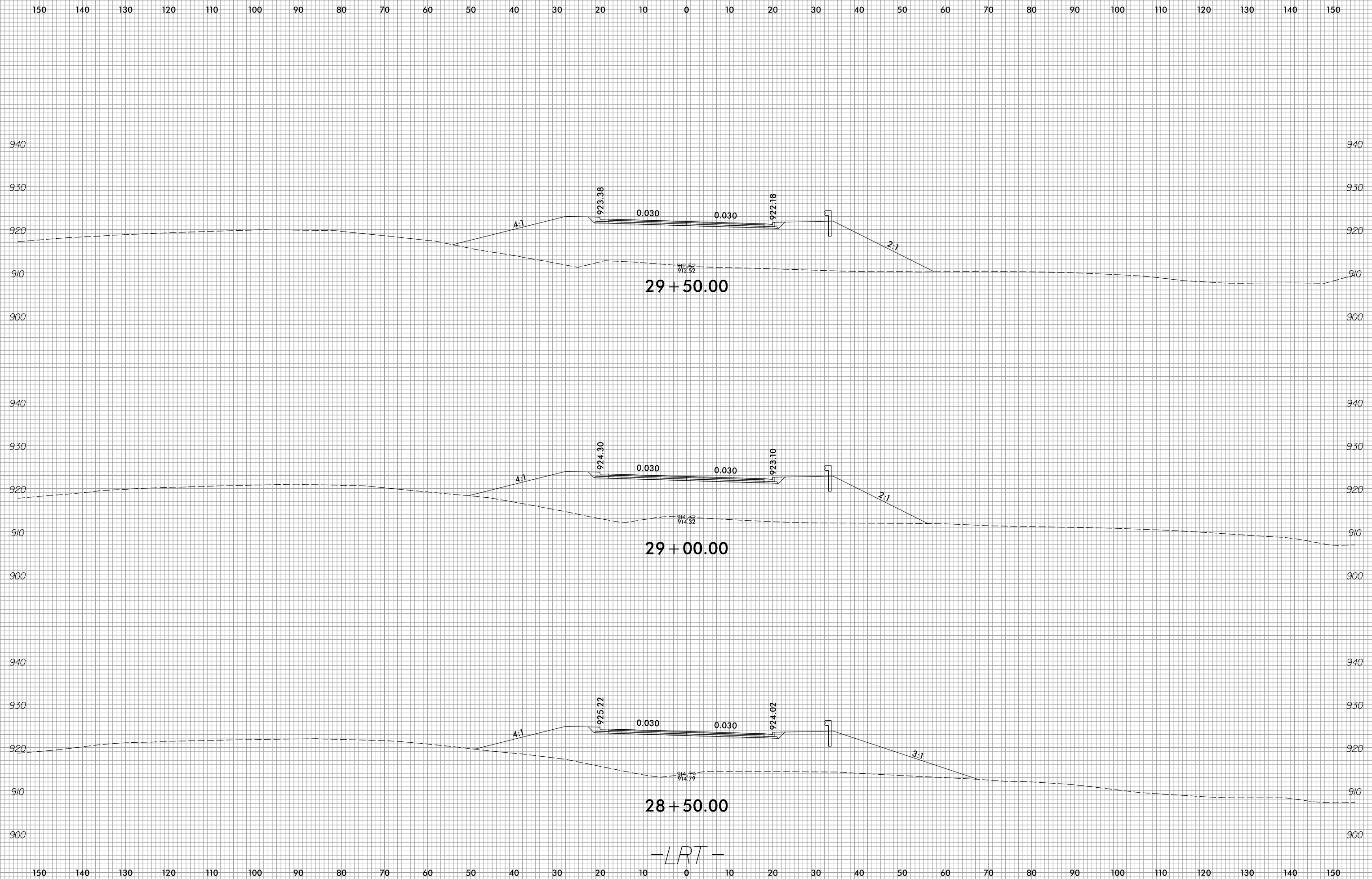


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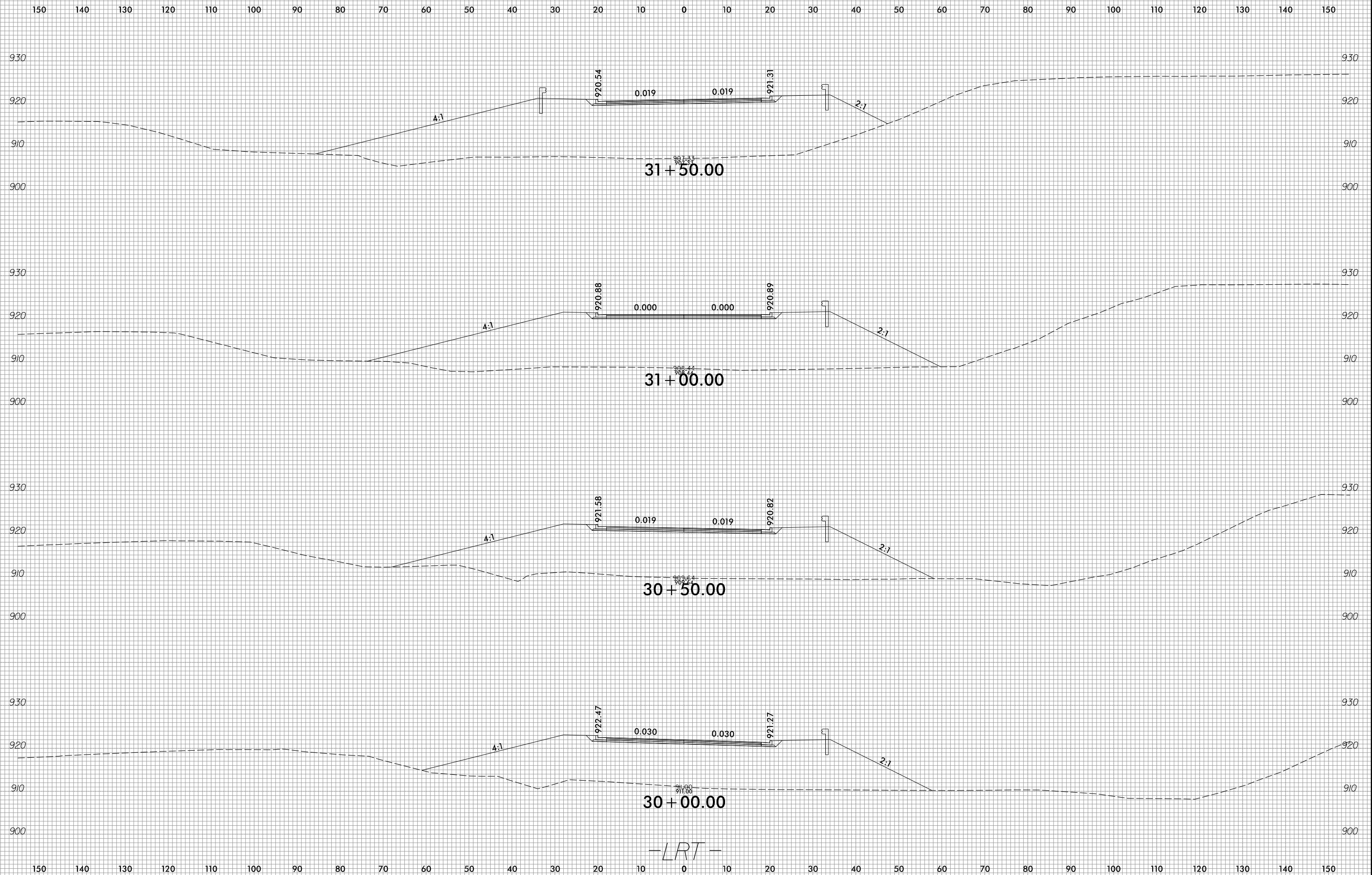


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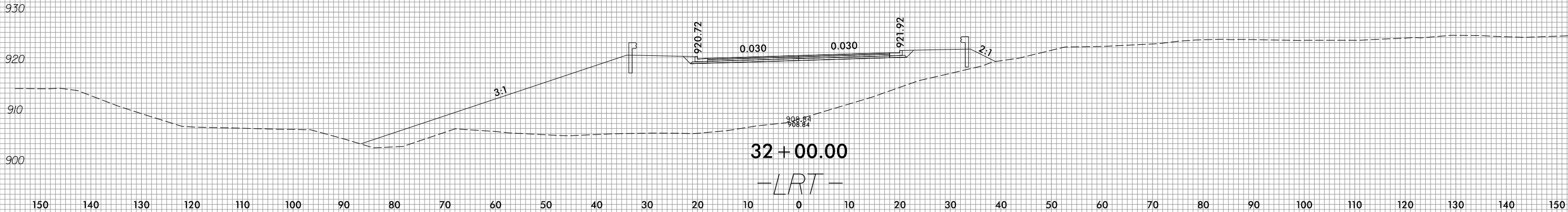
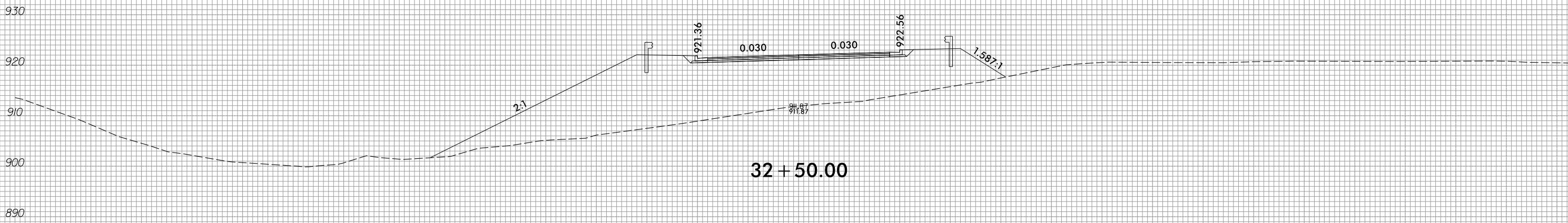
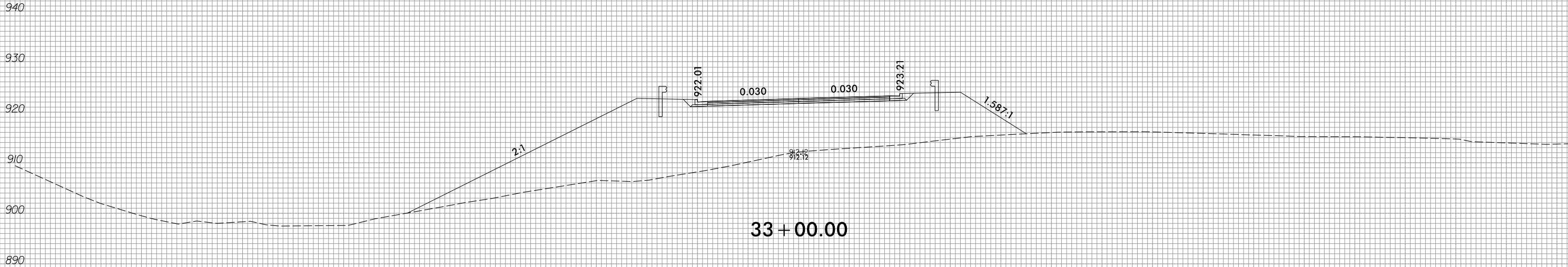
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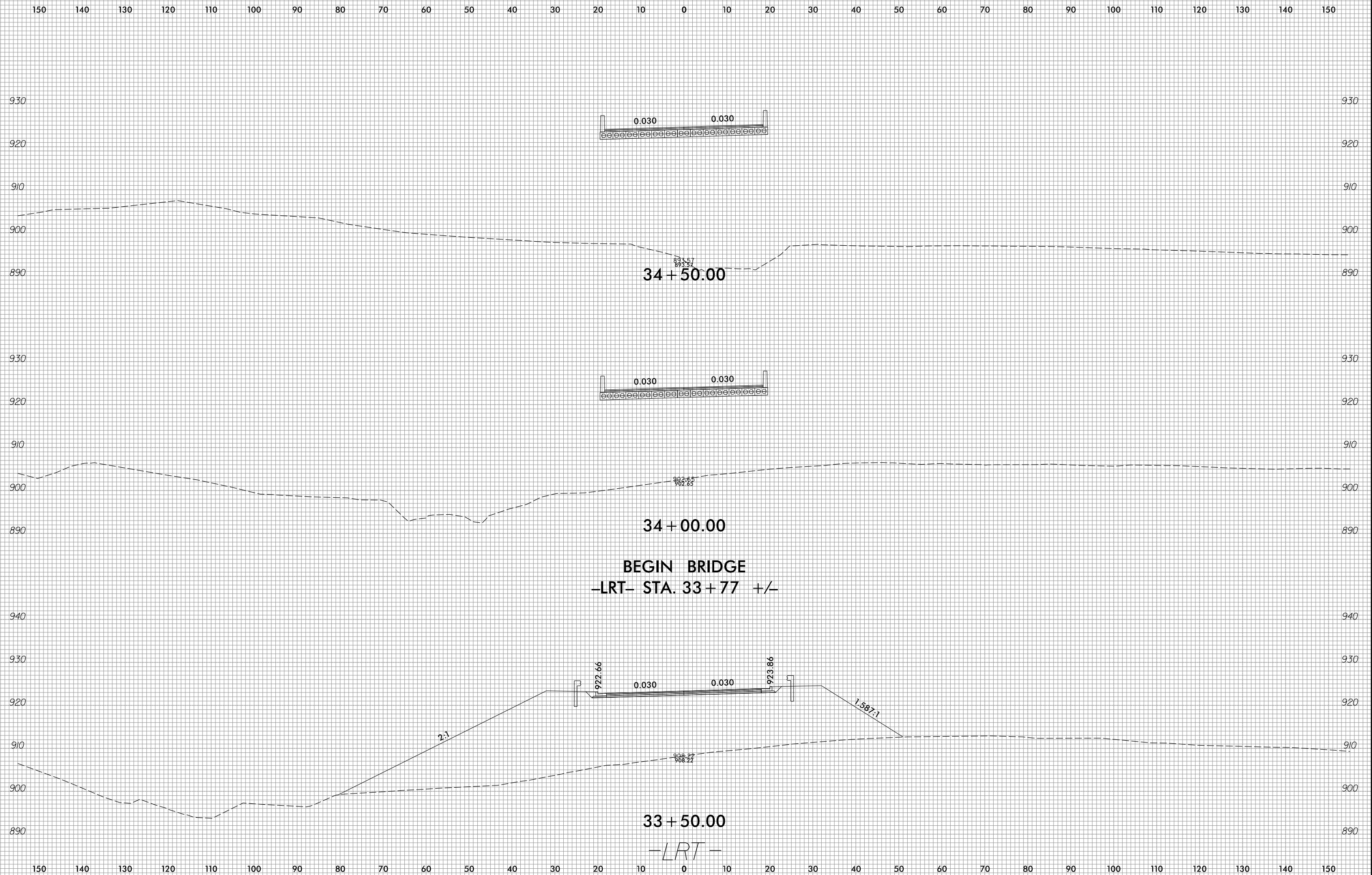
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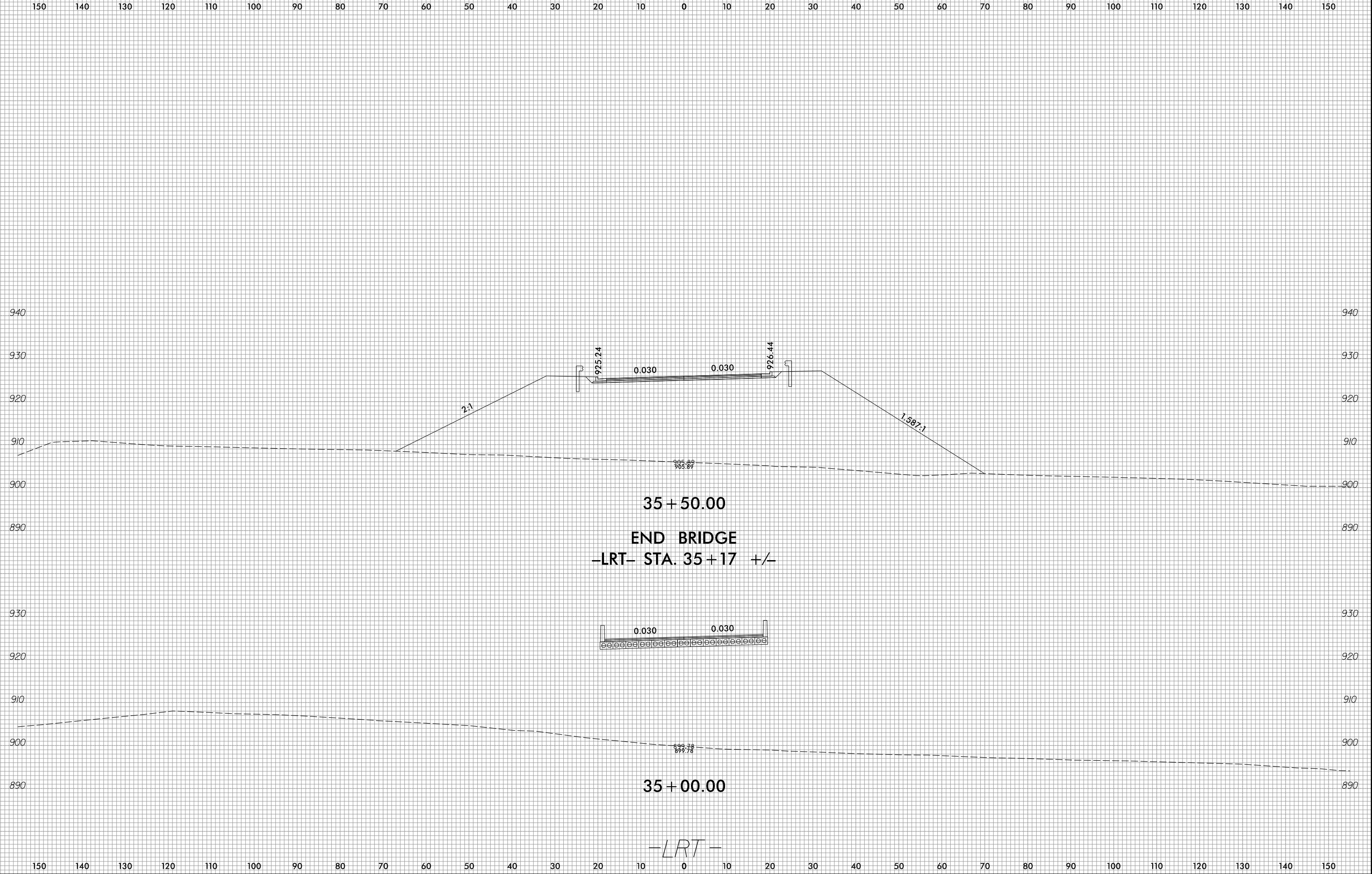


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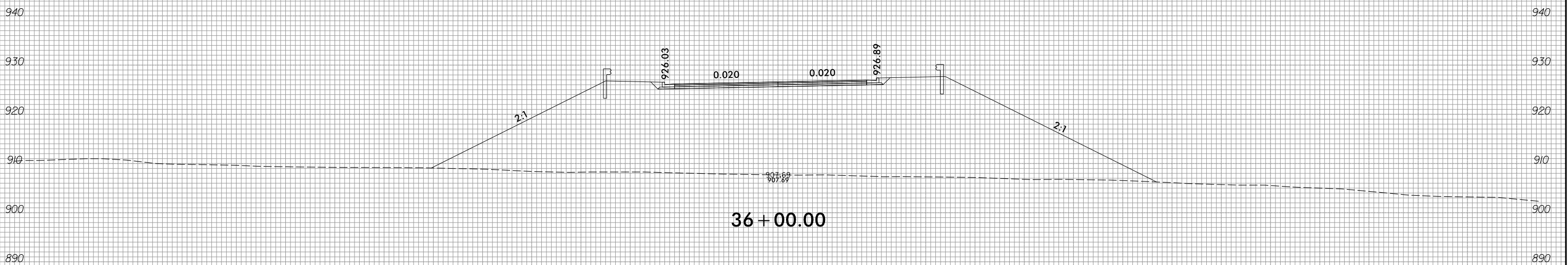
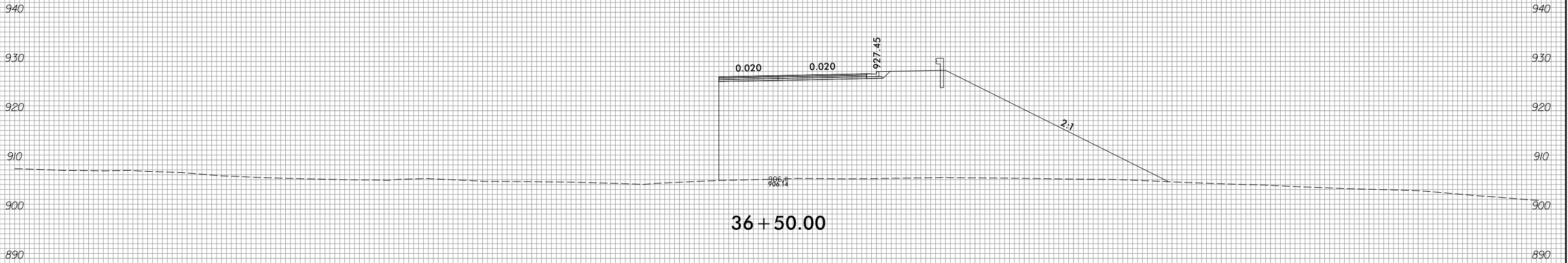








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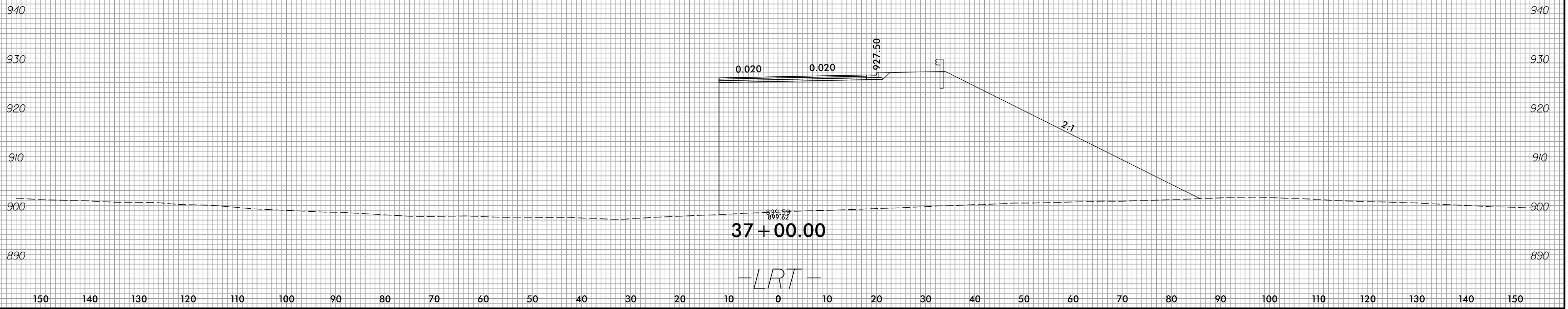
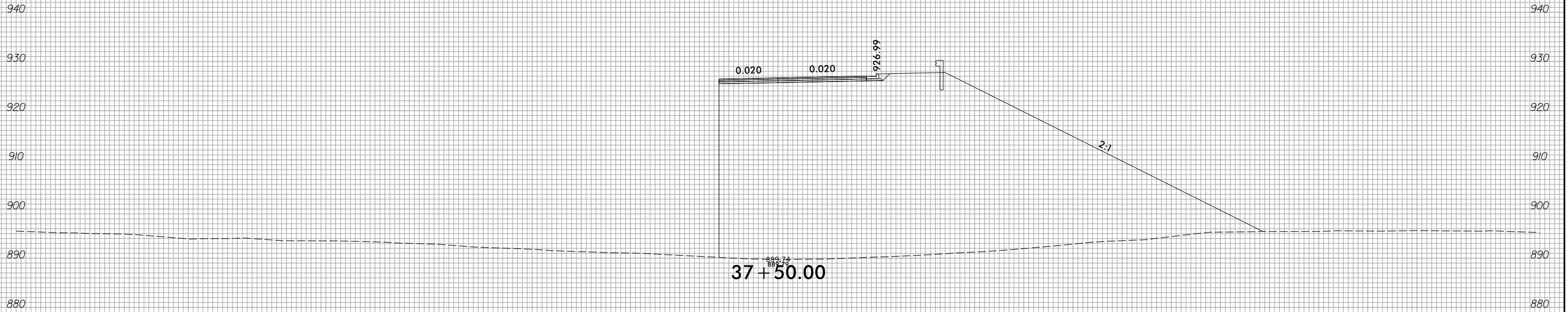


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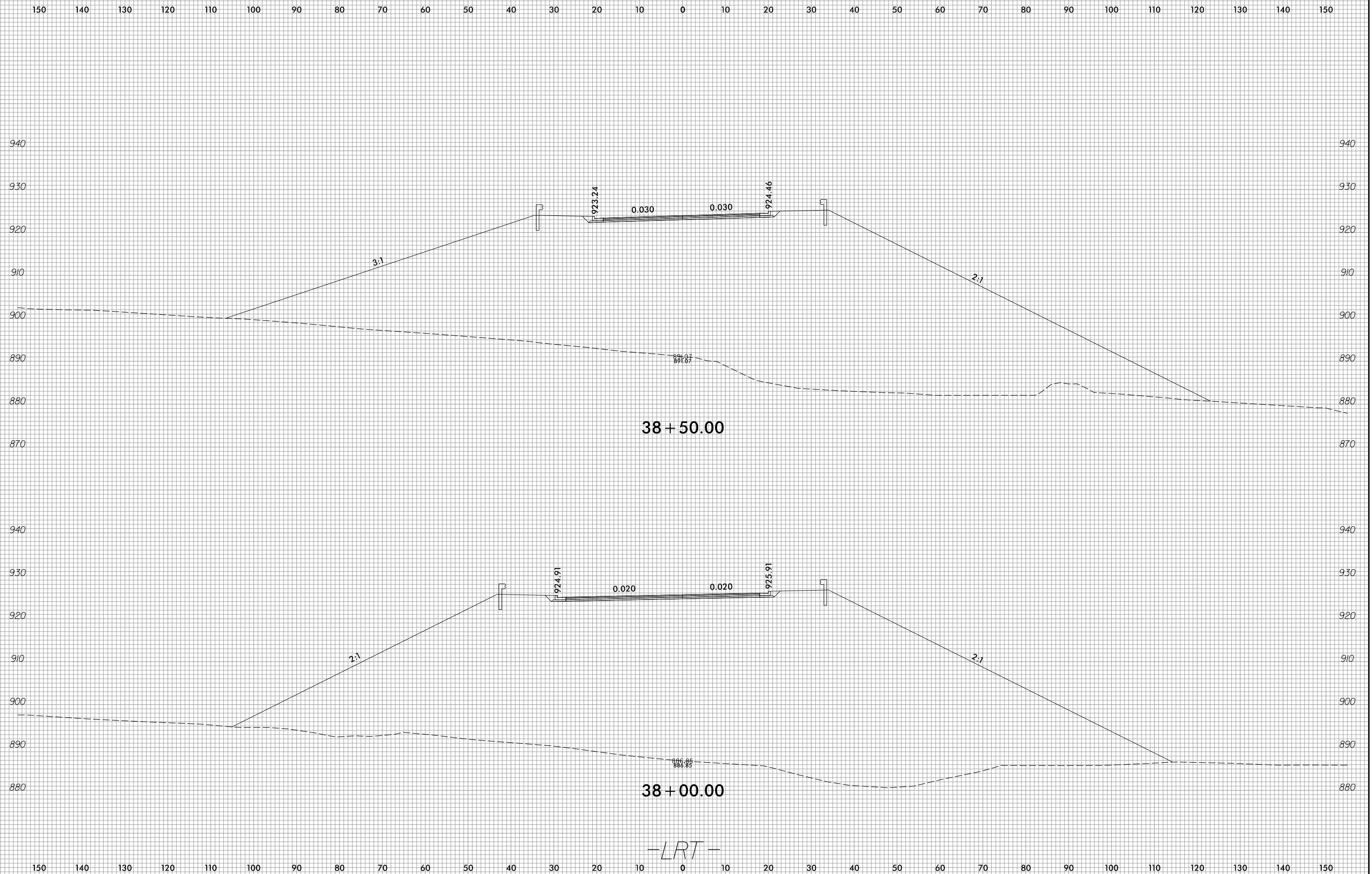
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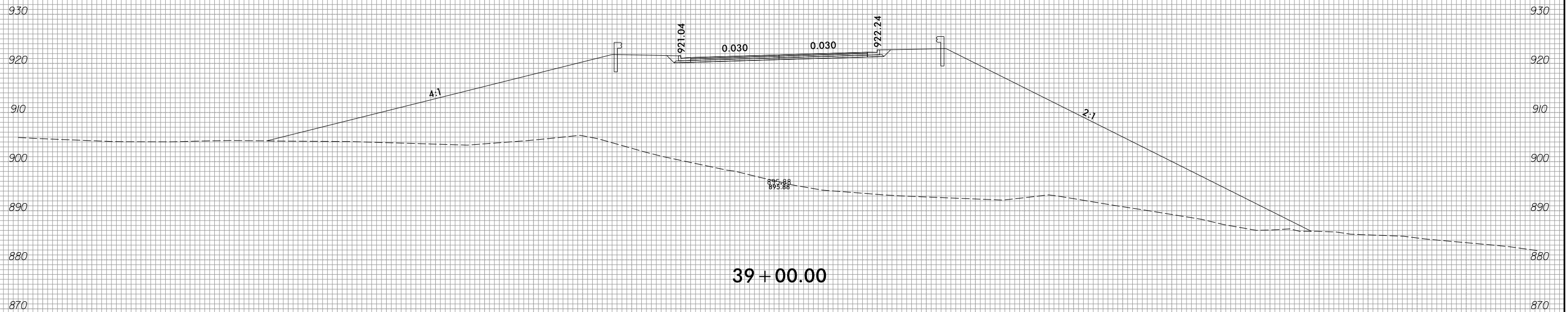
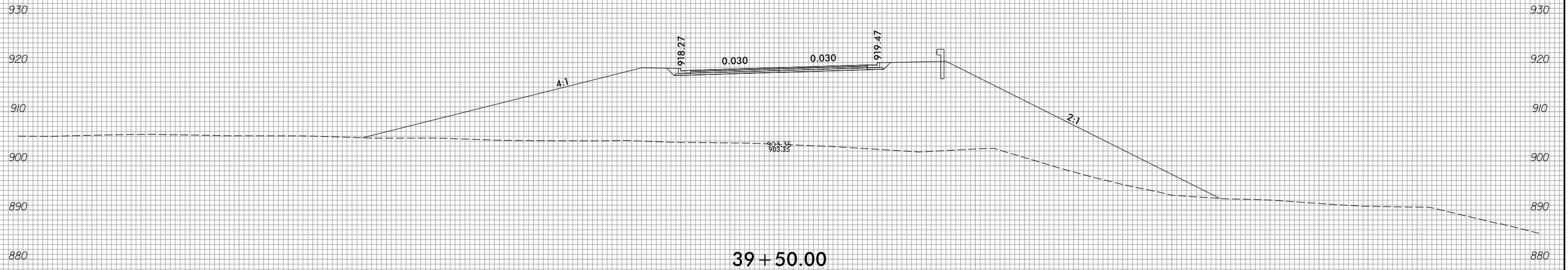
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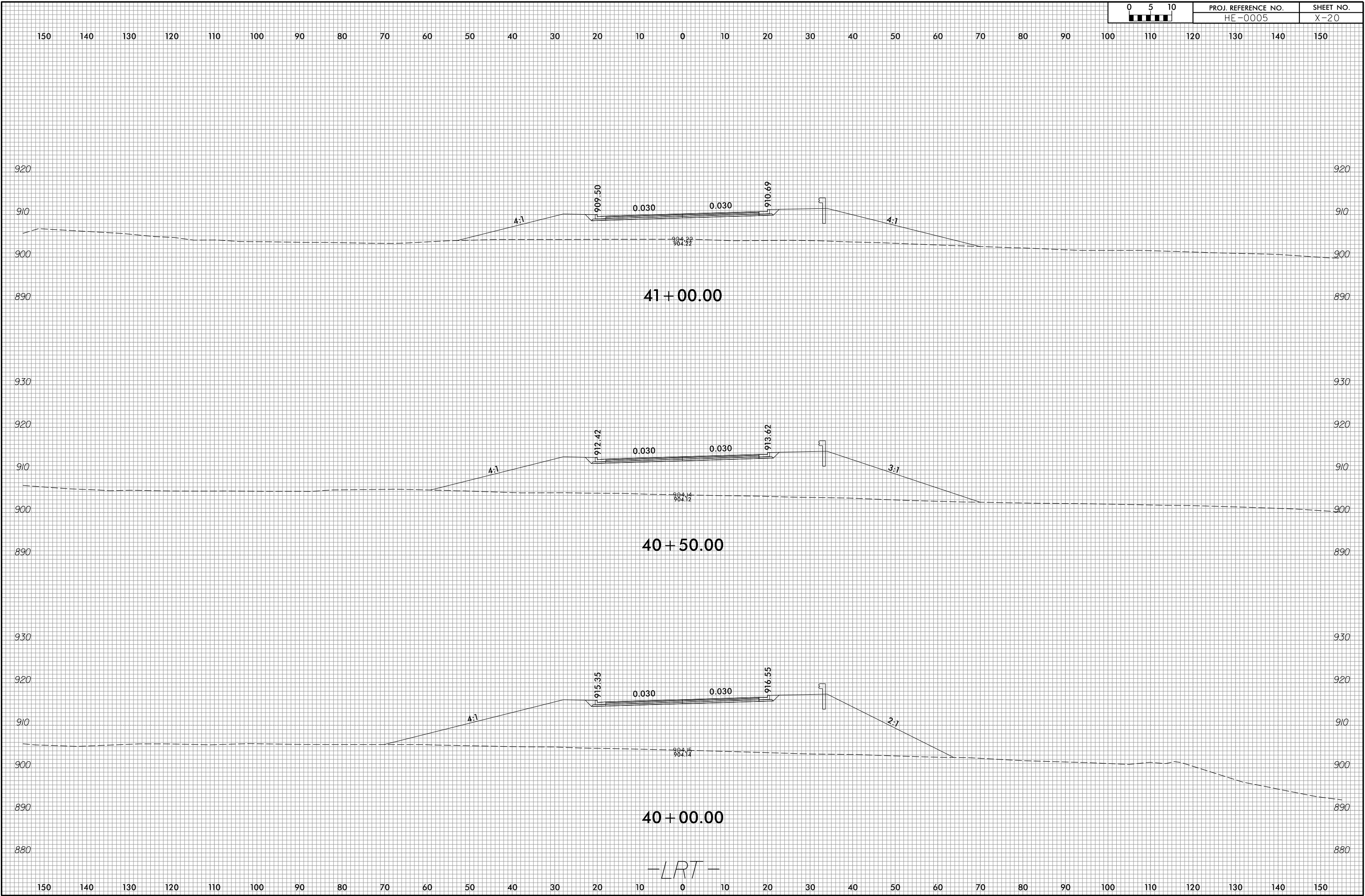
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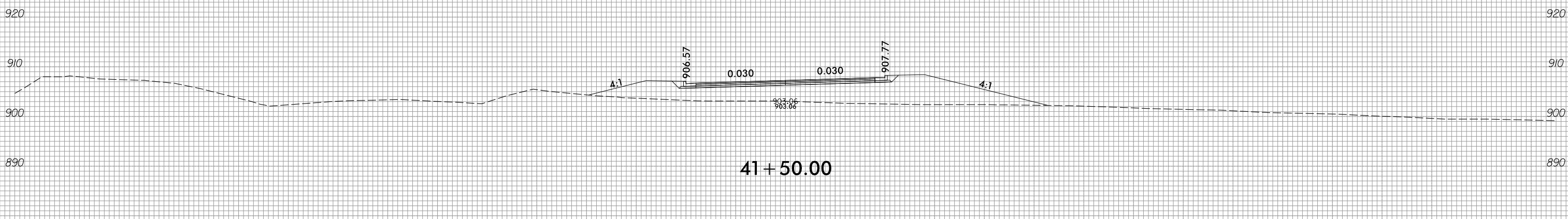
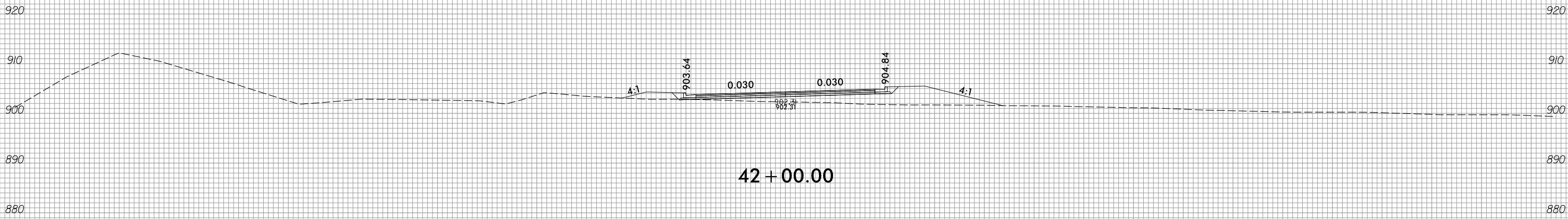
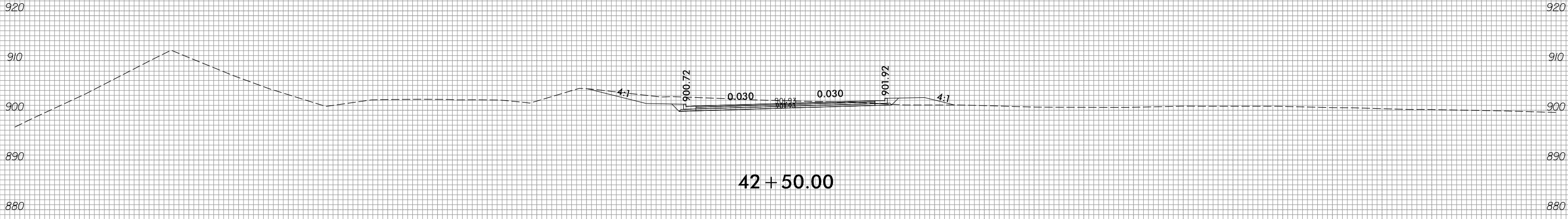
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-LRT-

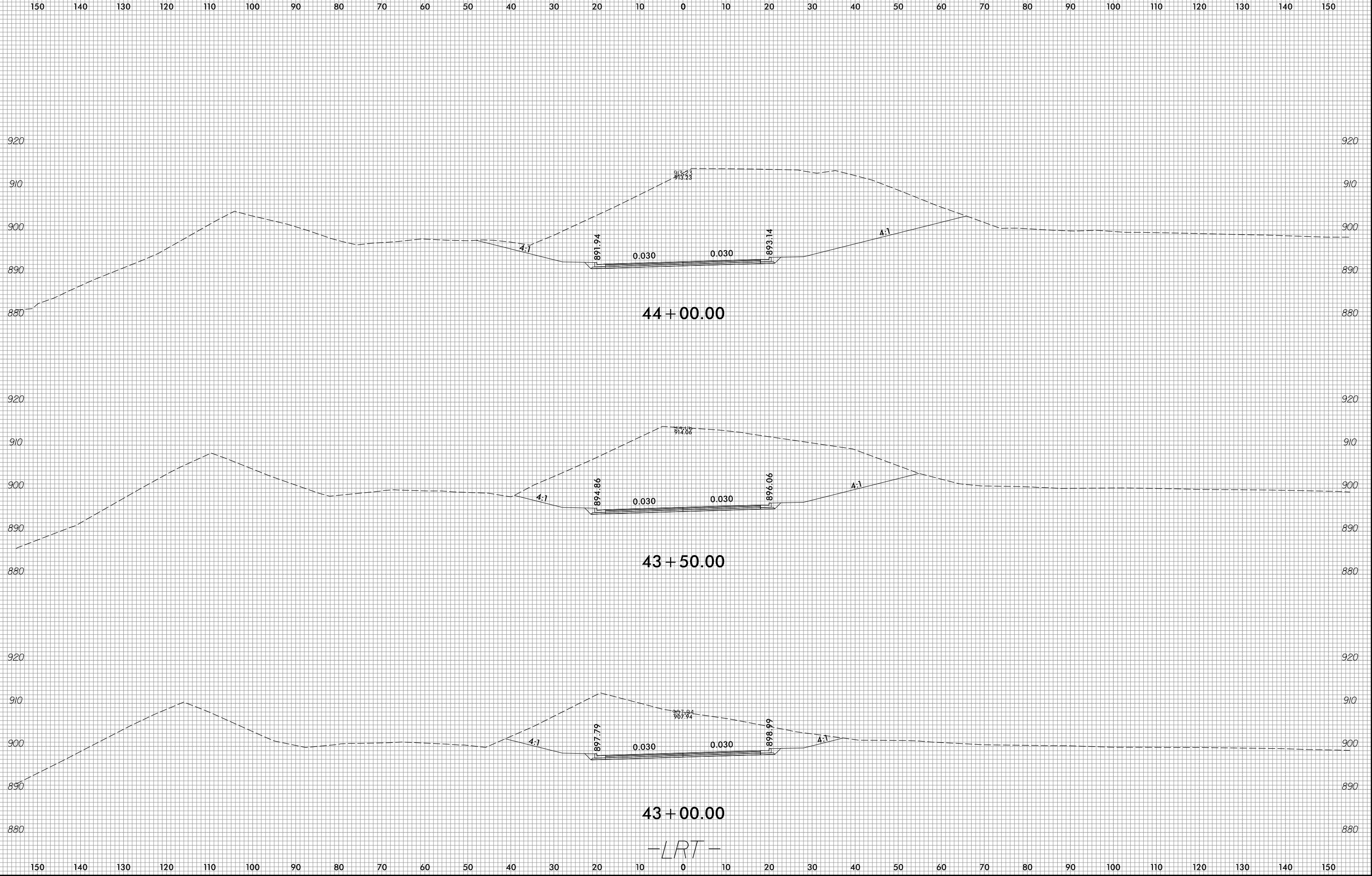


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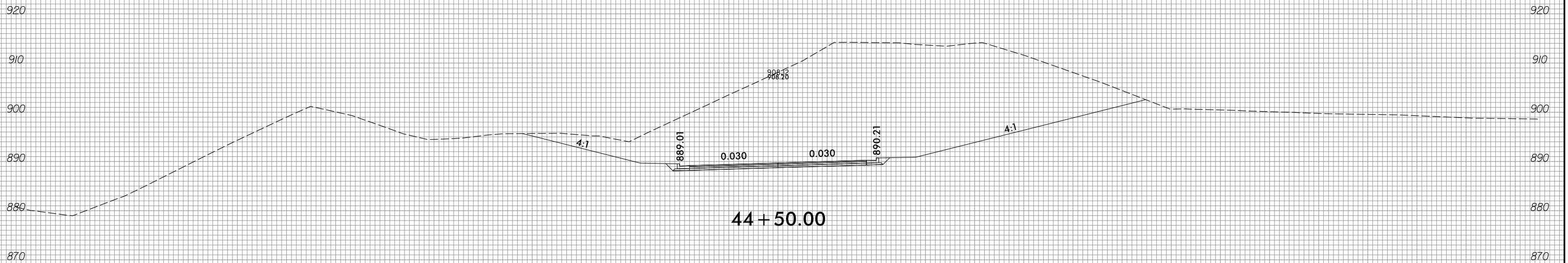
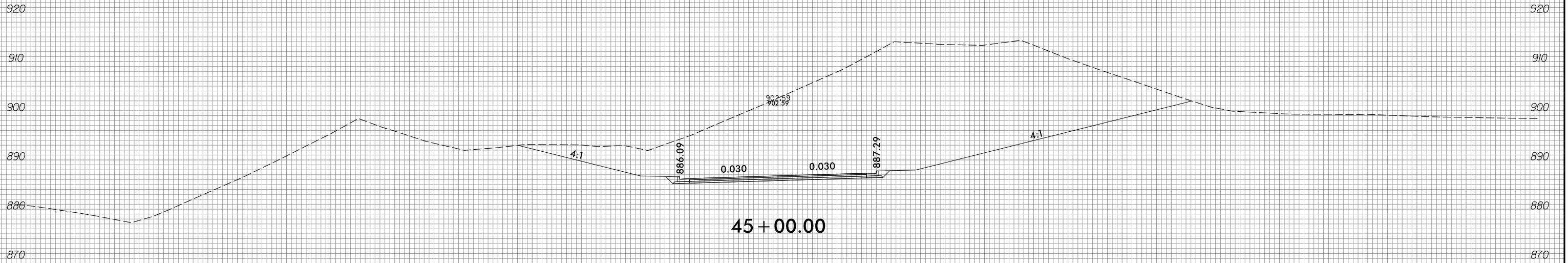
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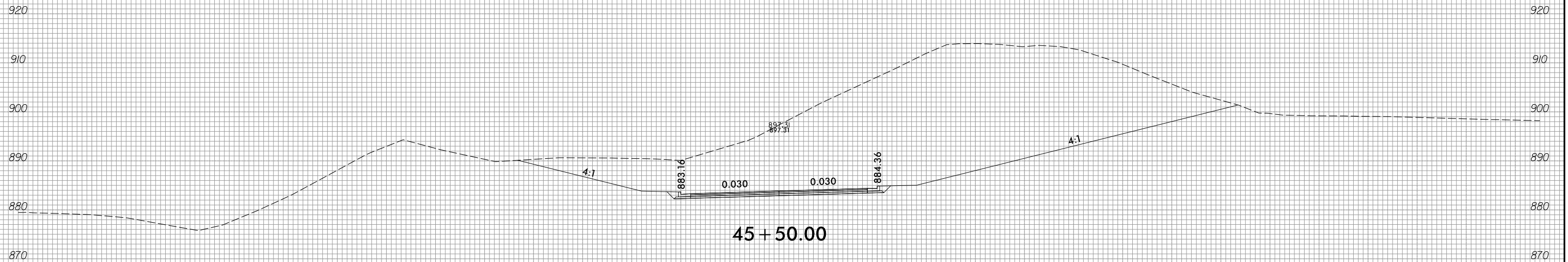
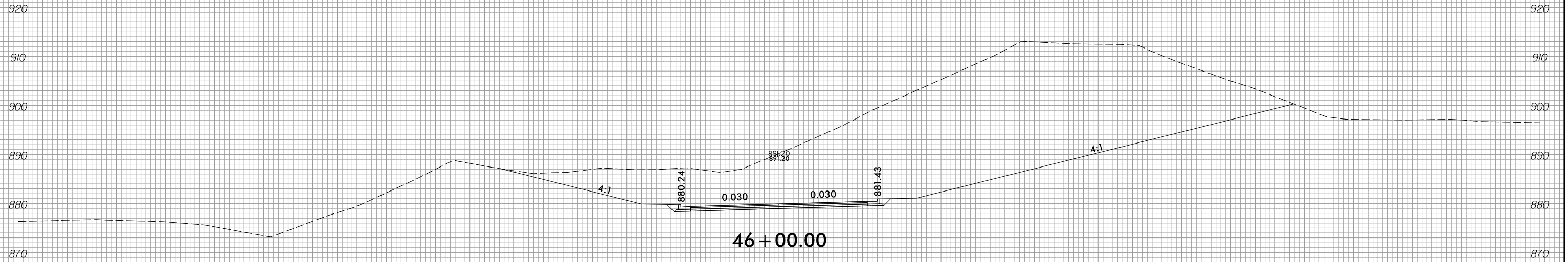


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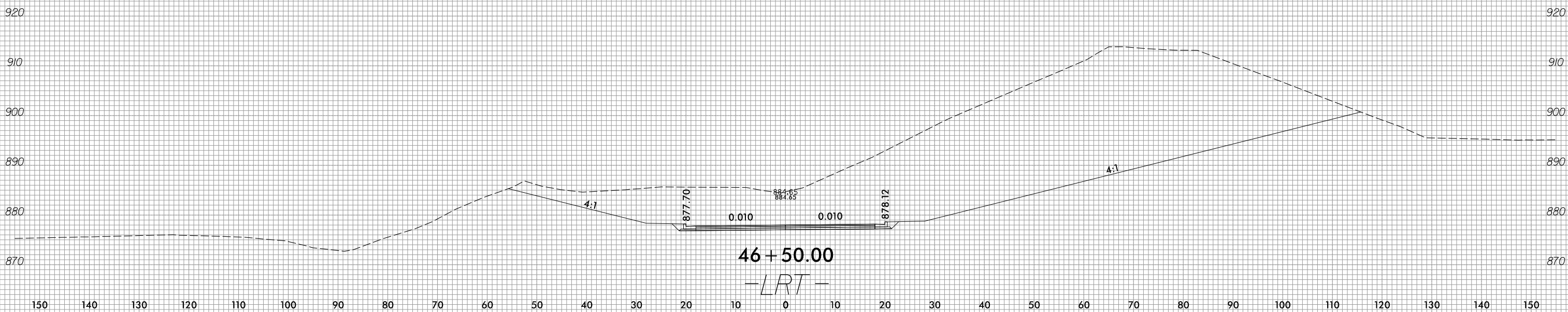
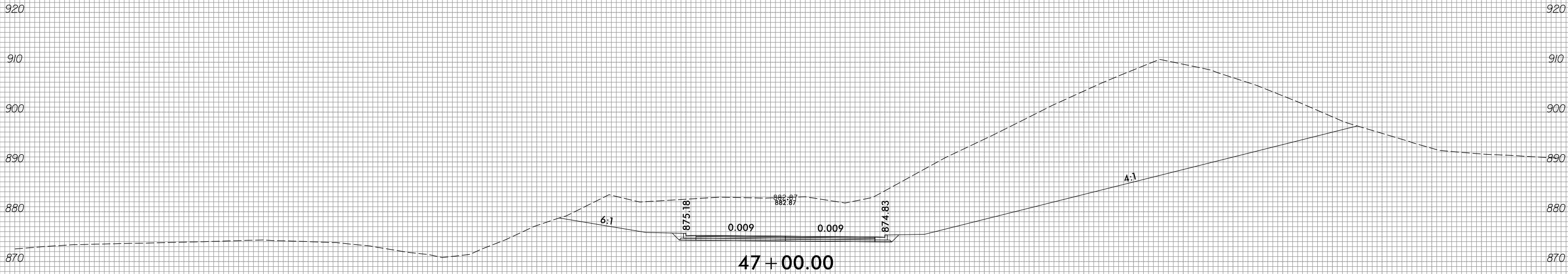
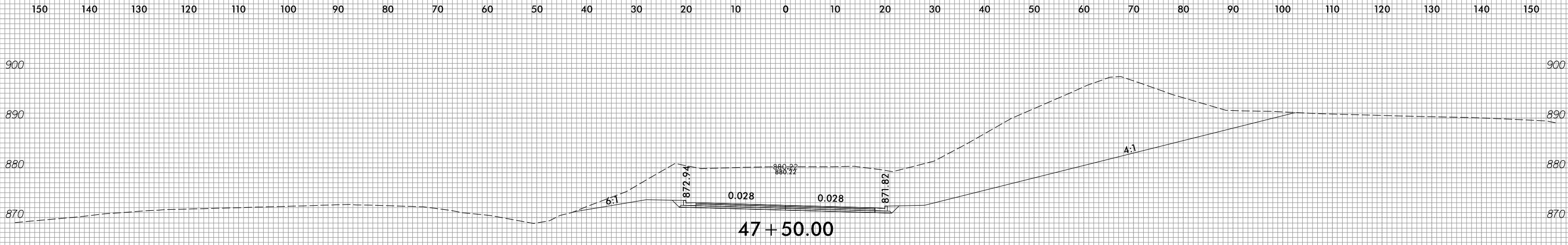
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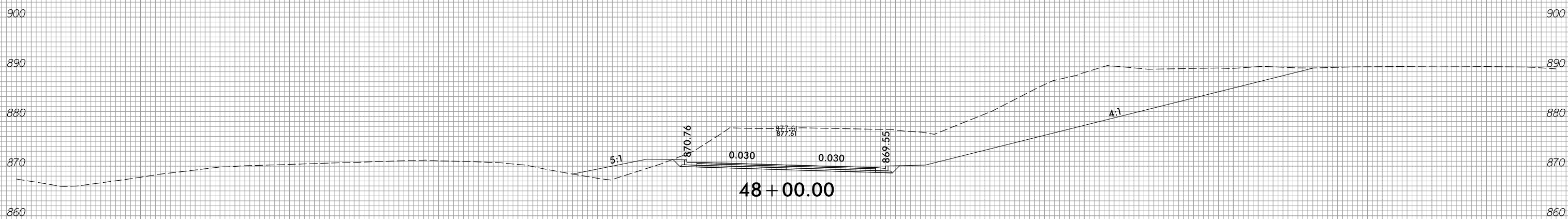
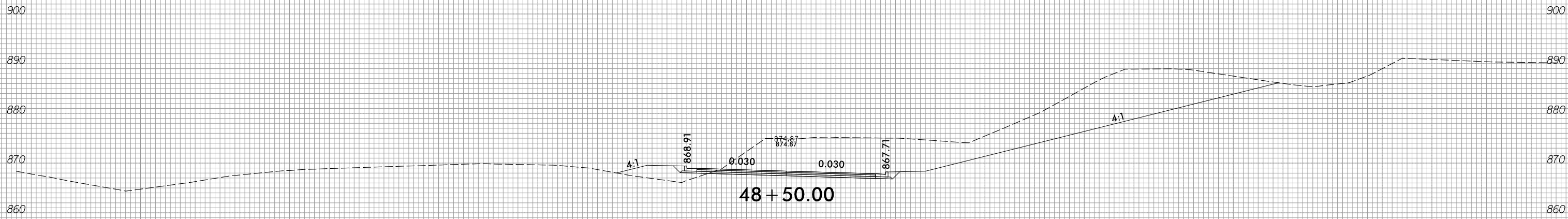
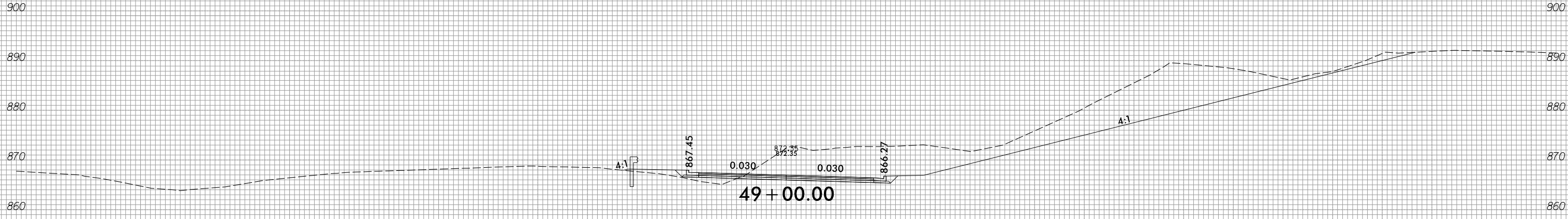
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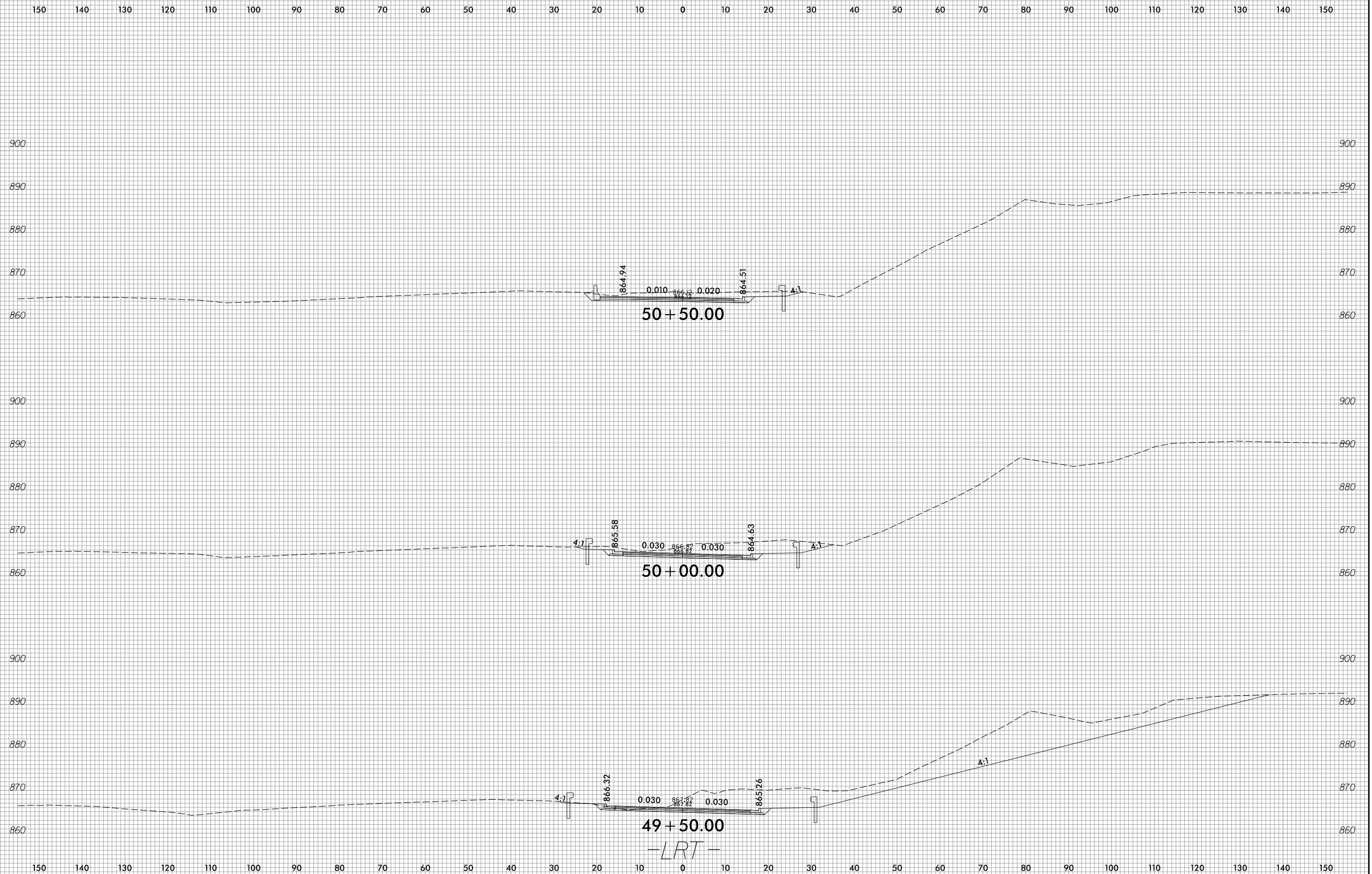
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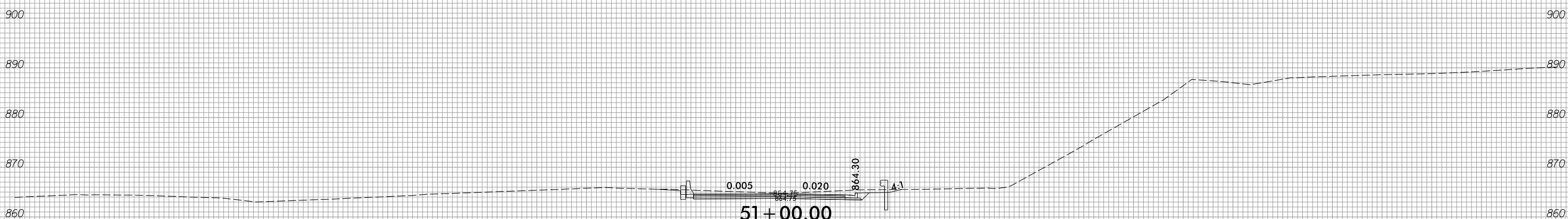
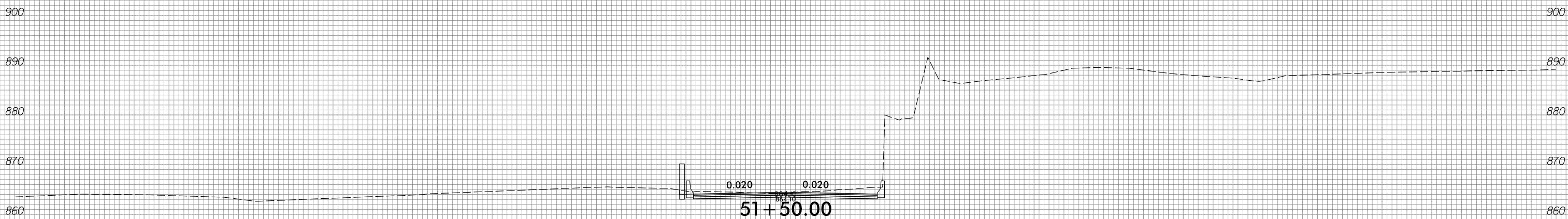
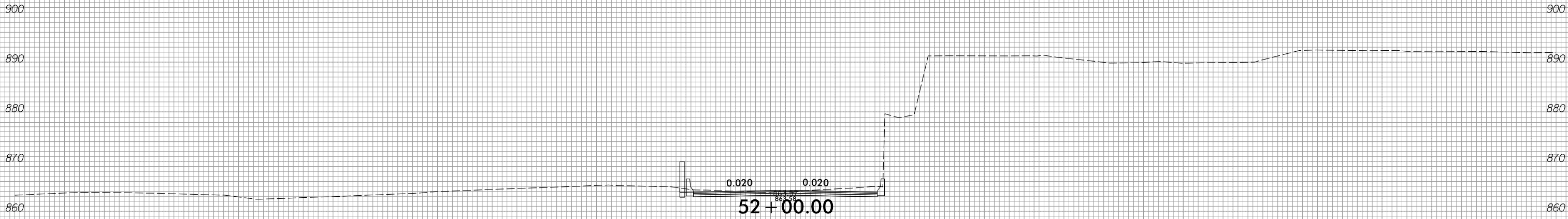
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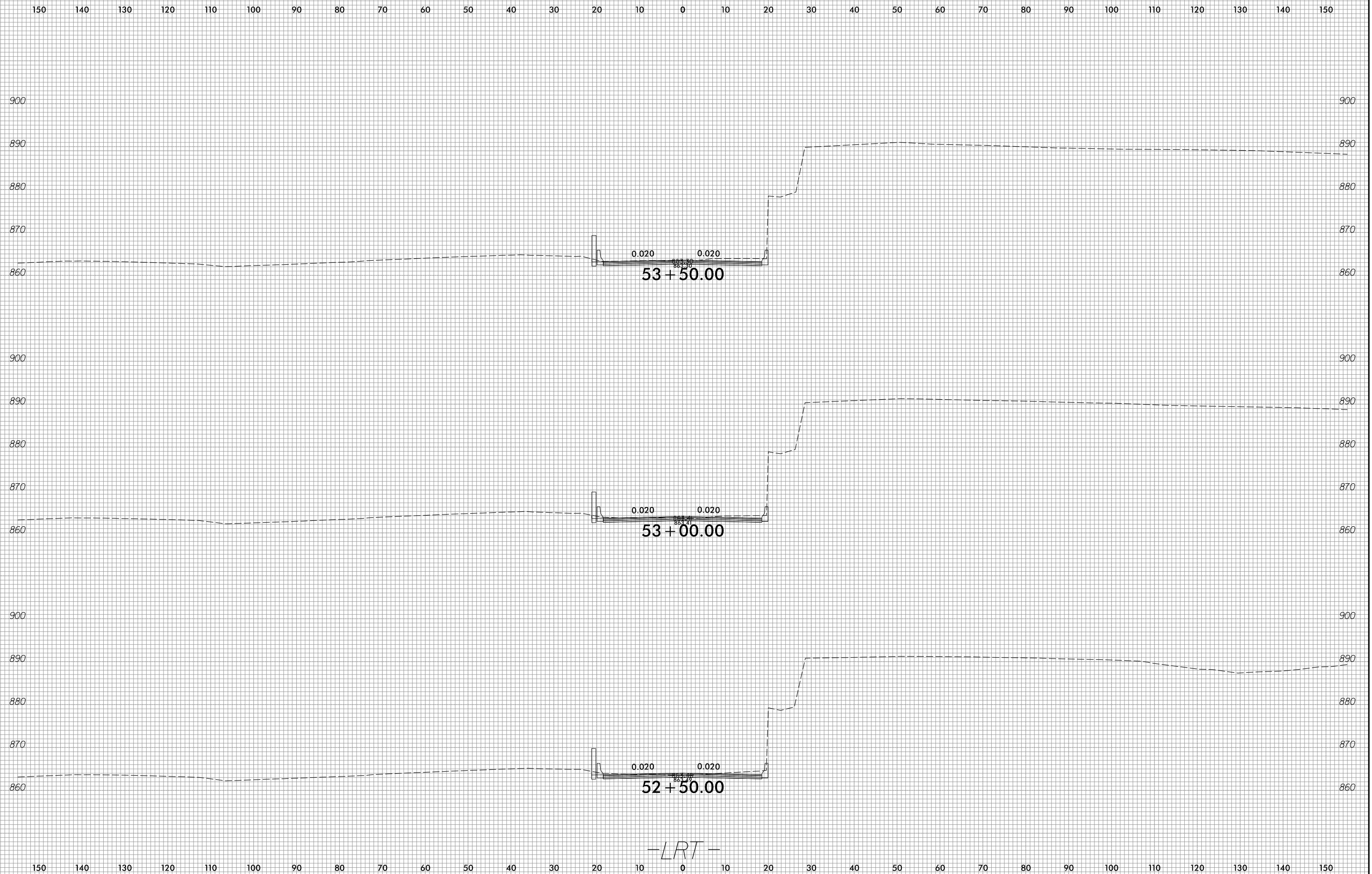


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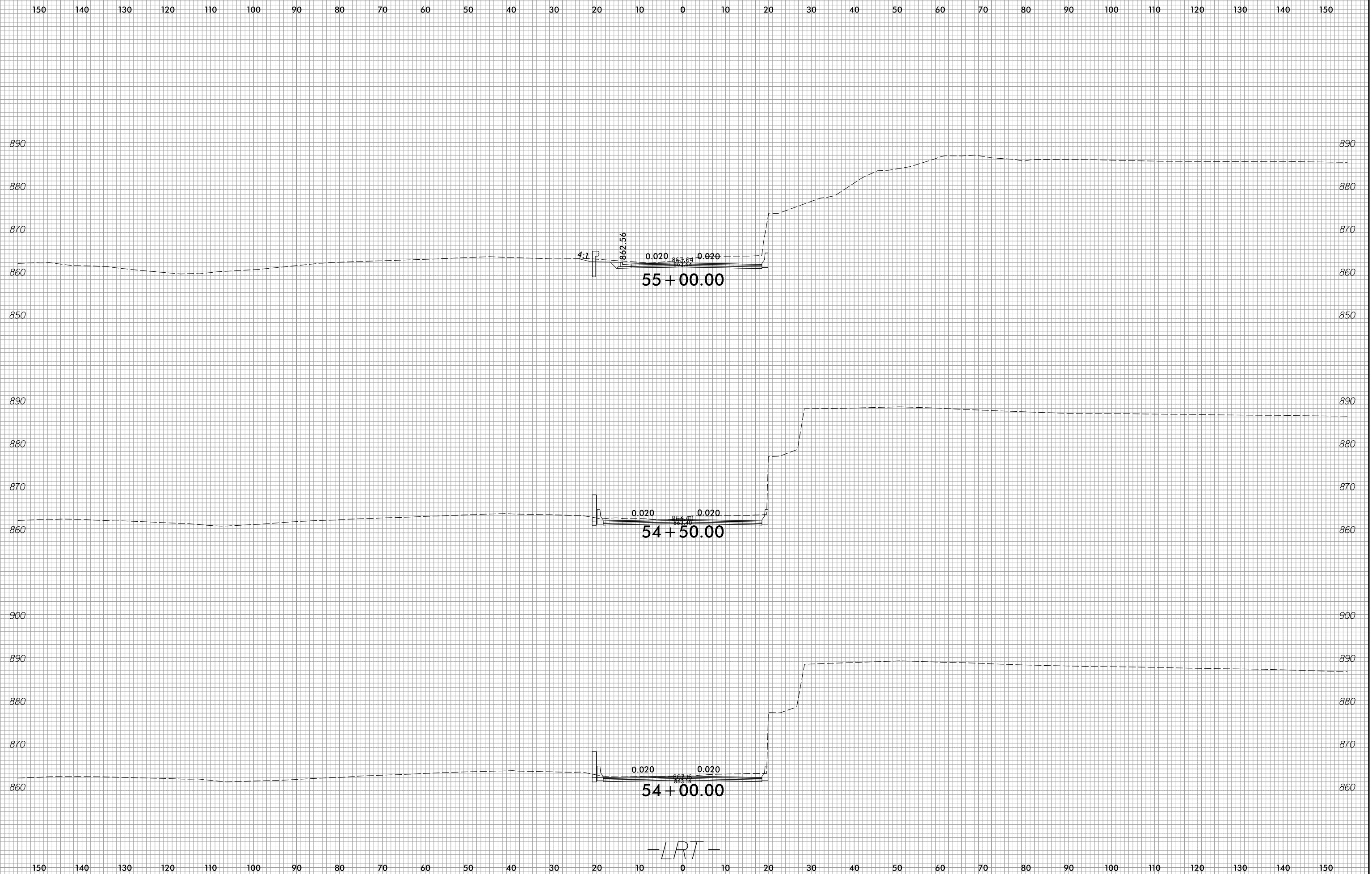


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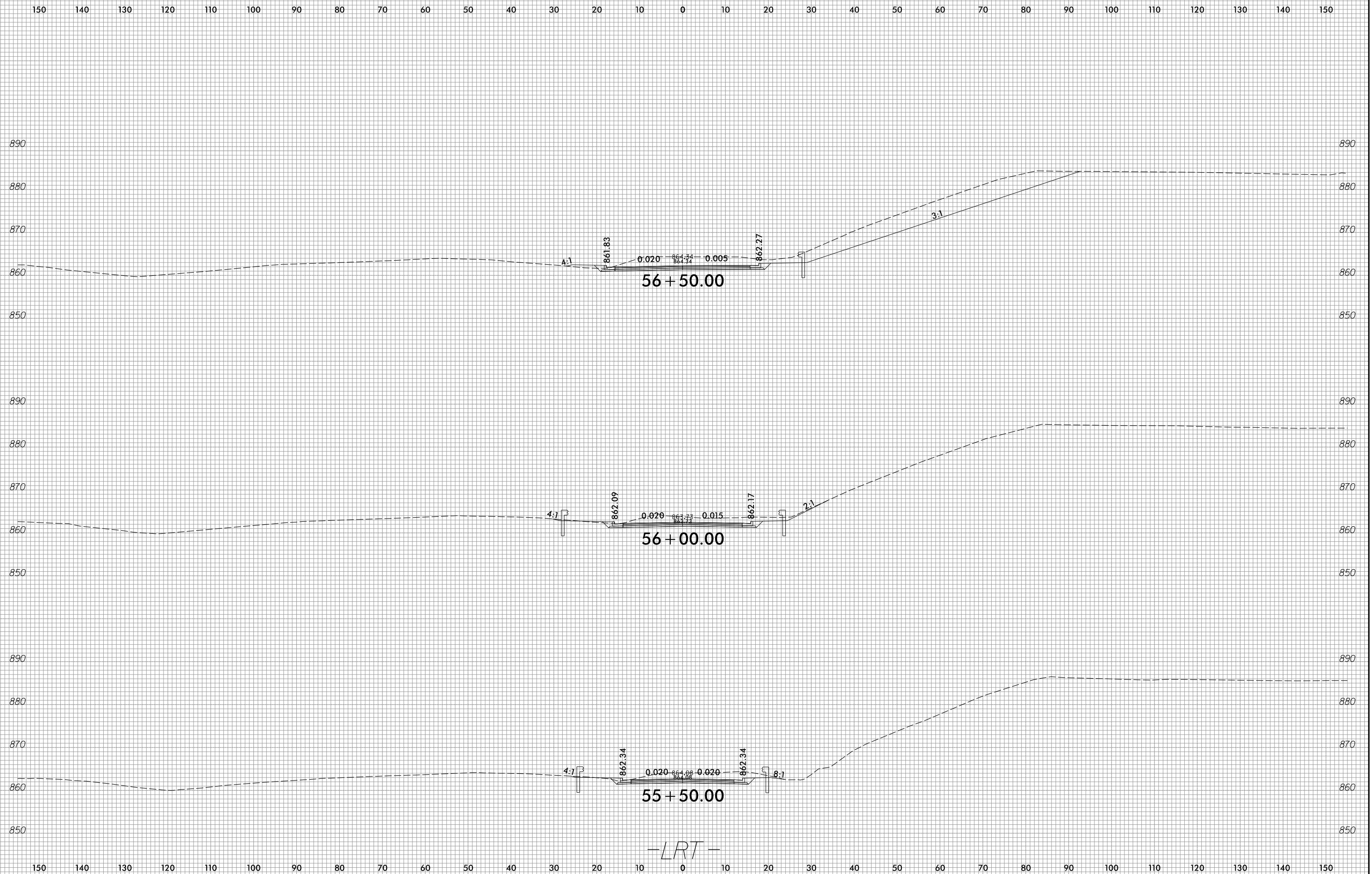
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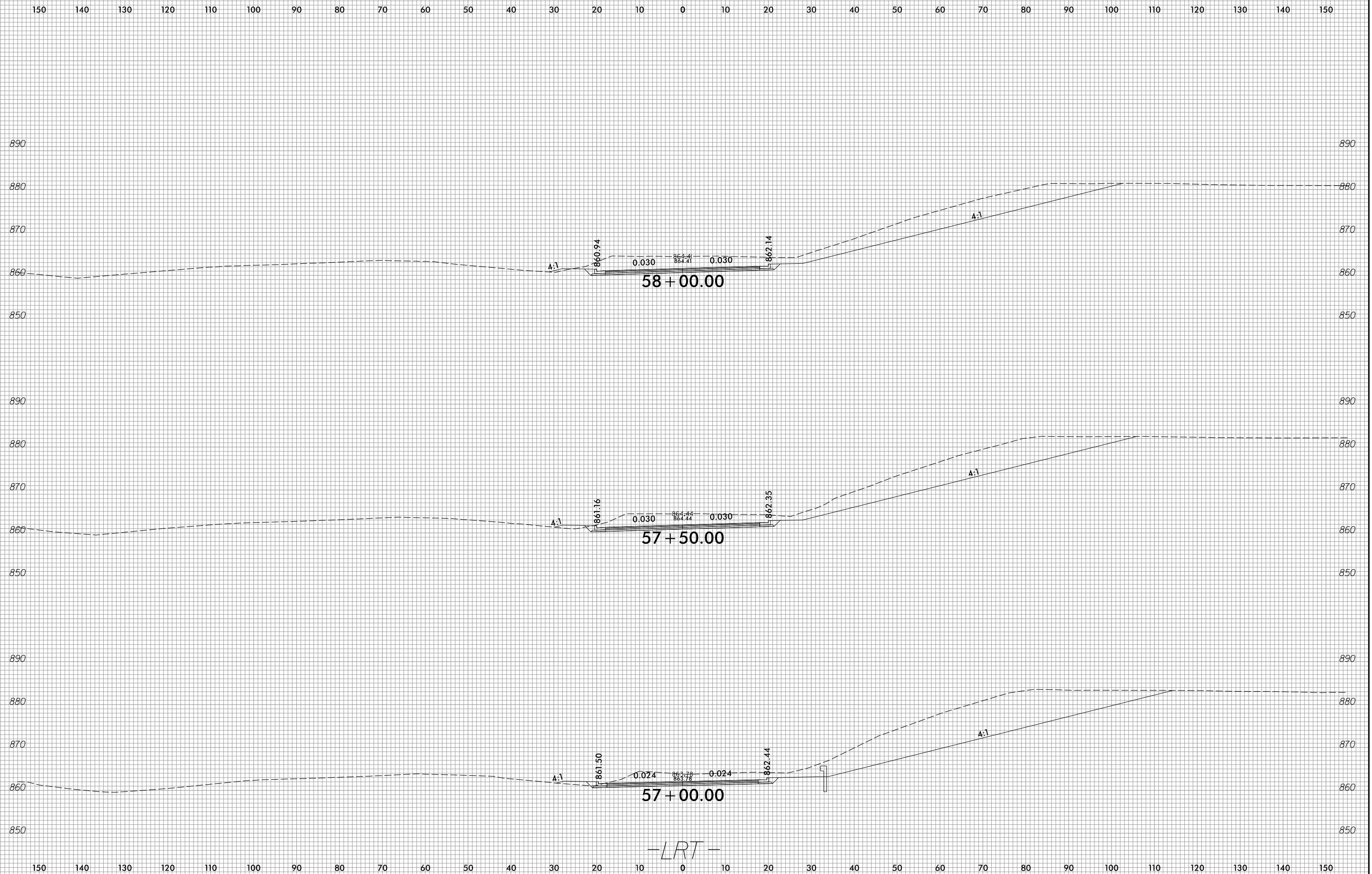




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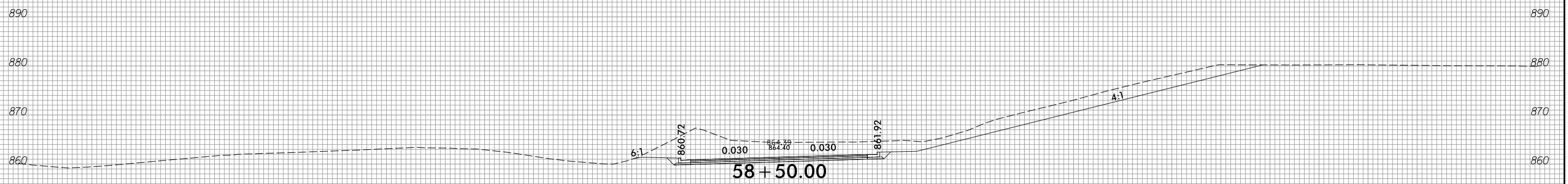
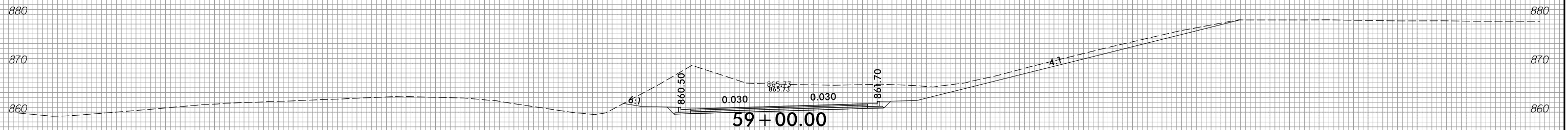
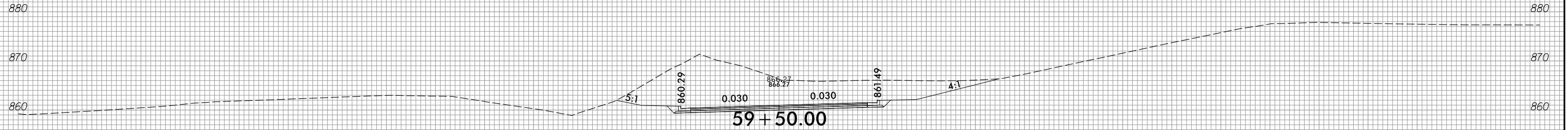
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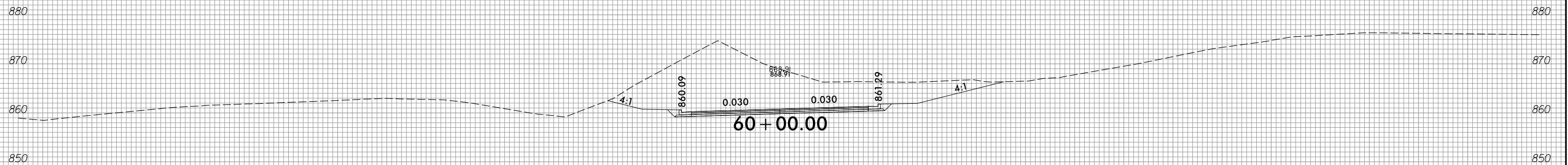
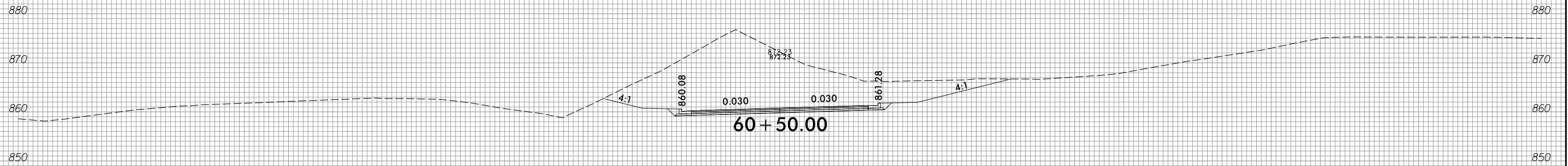
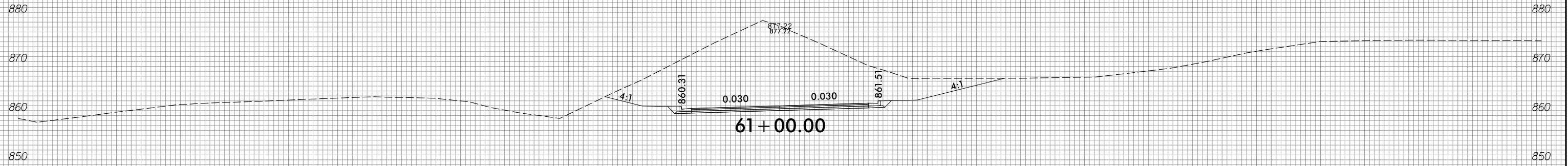
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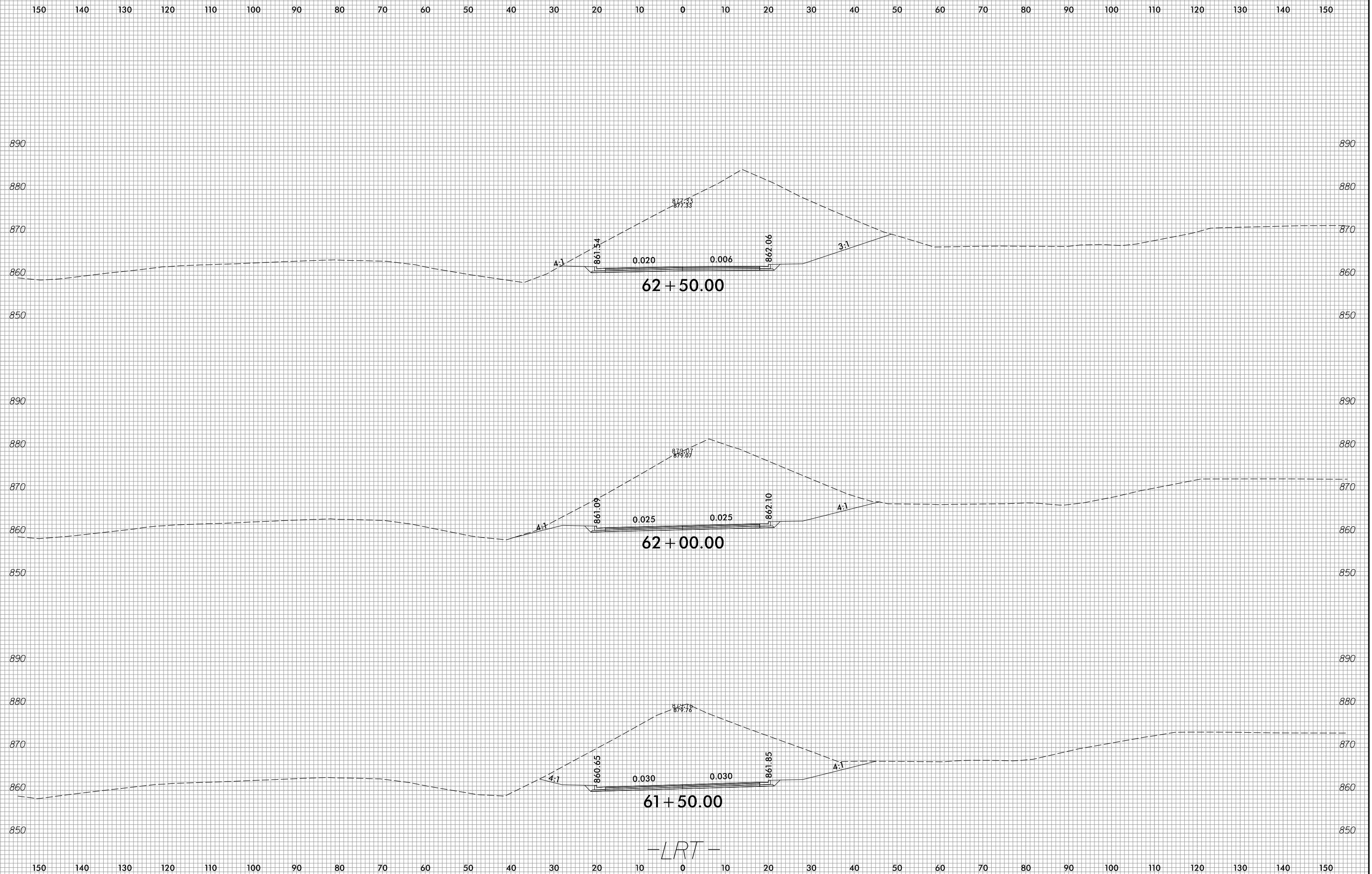


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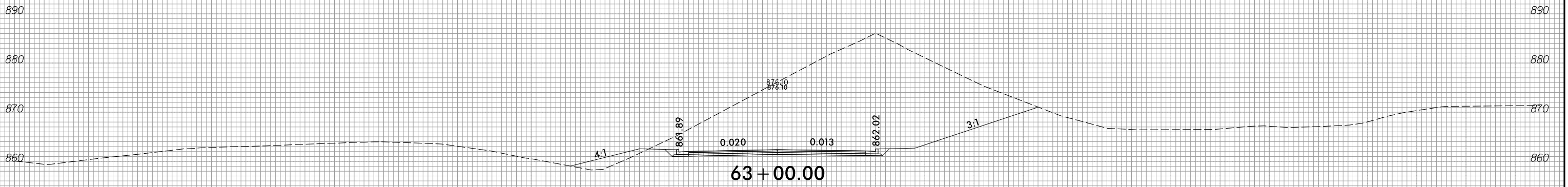
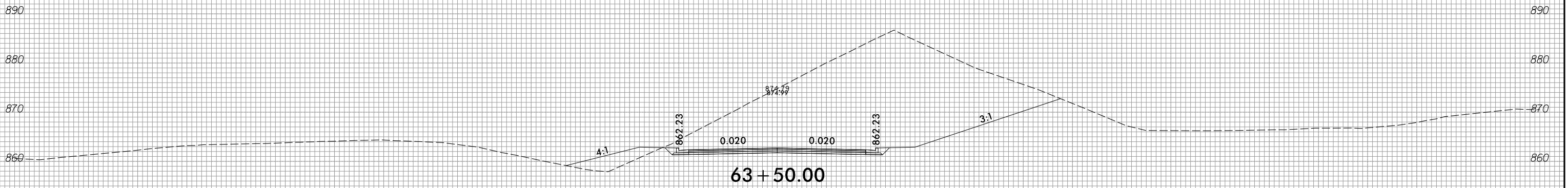
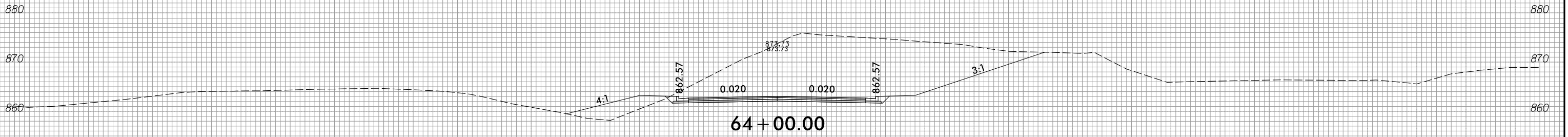
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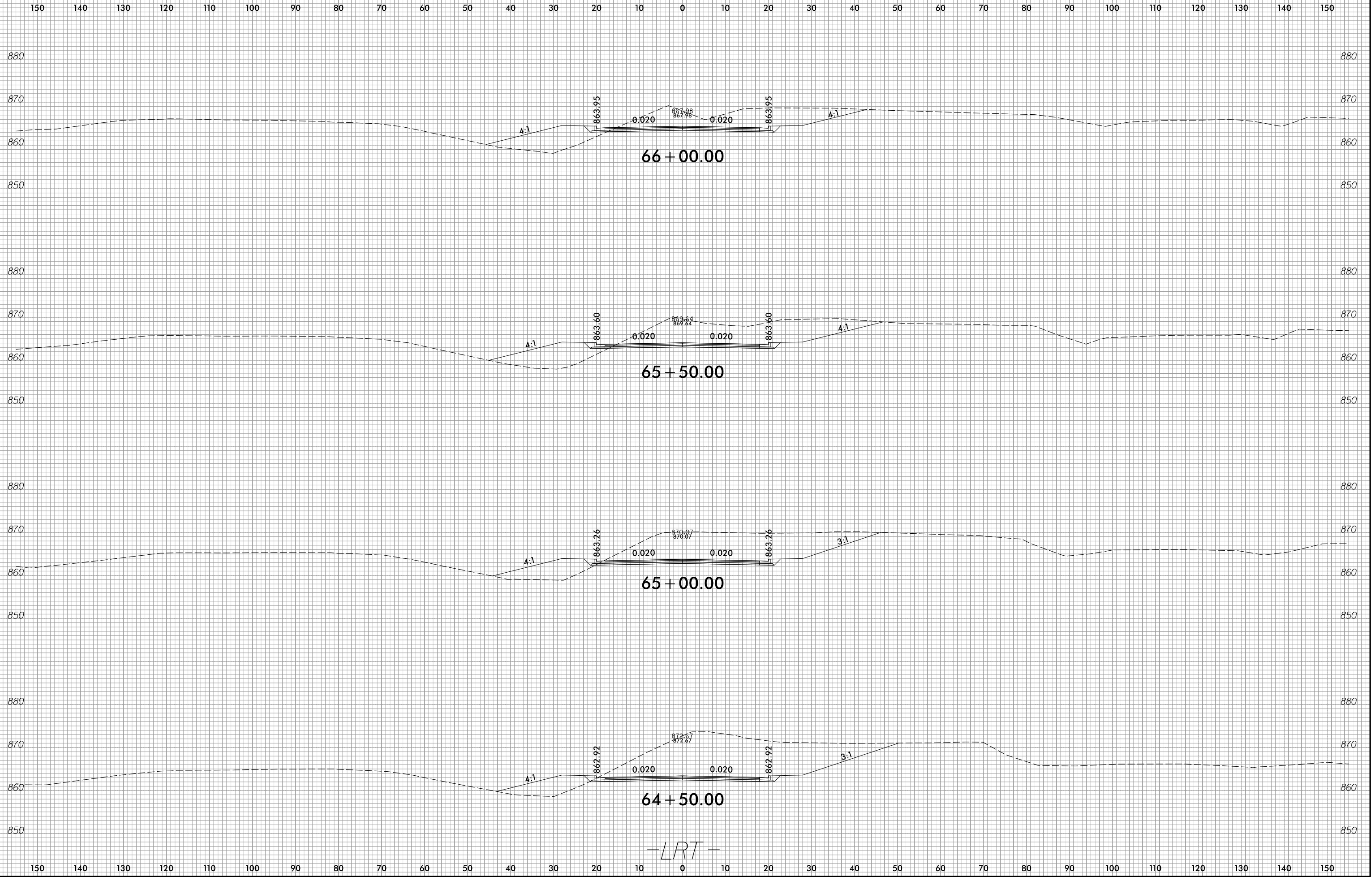
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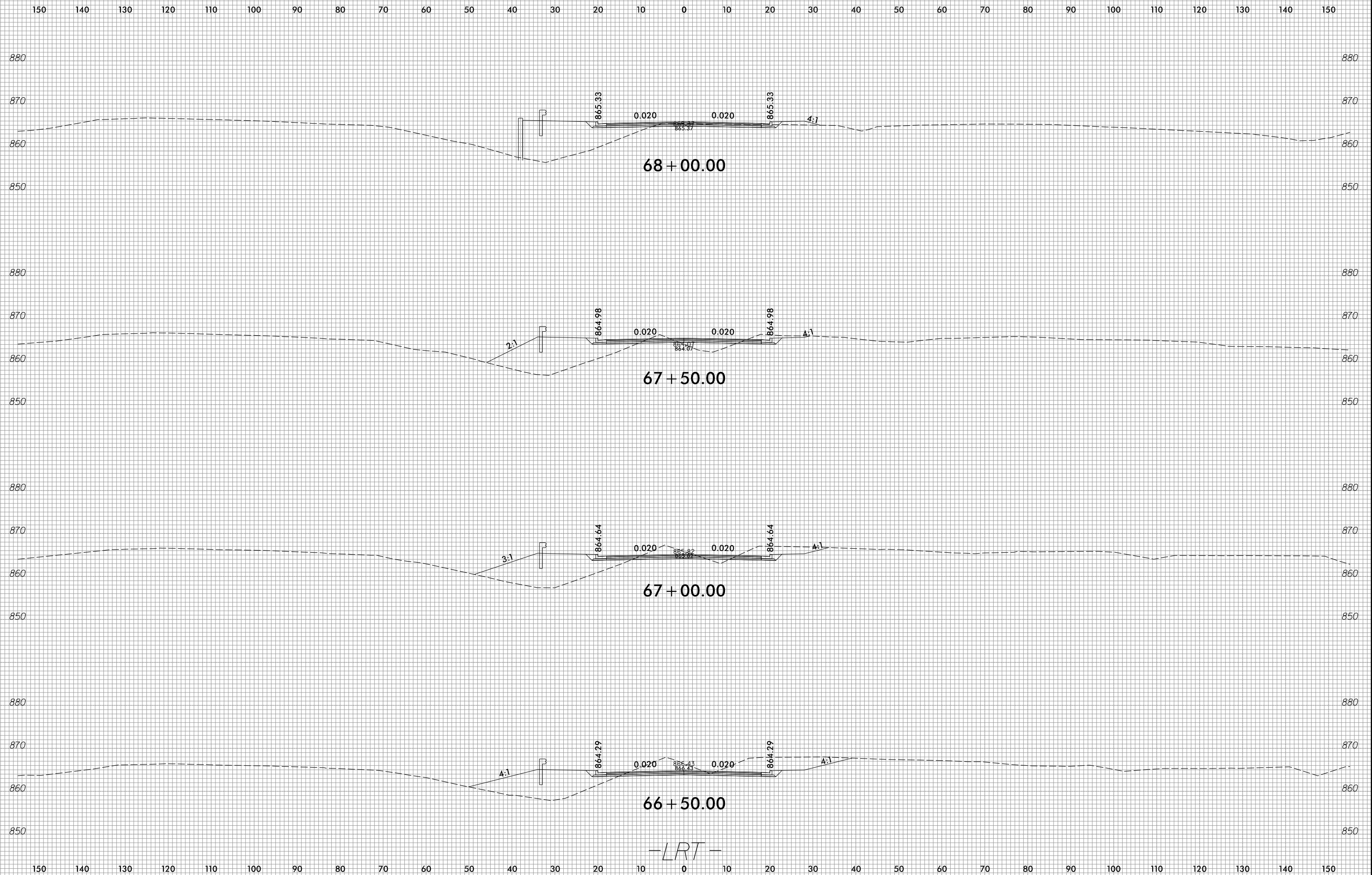


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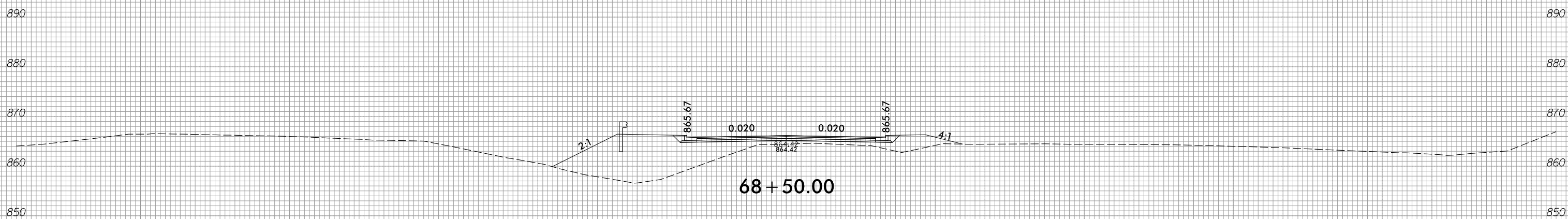
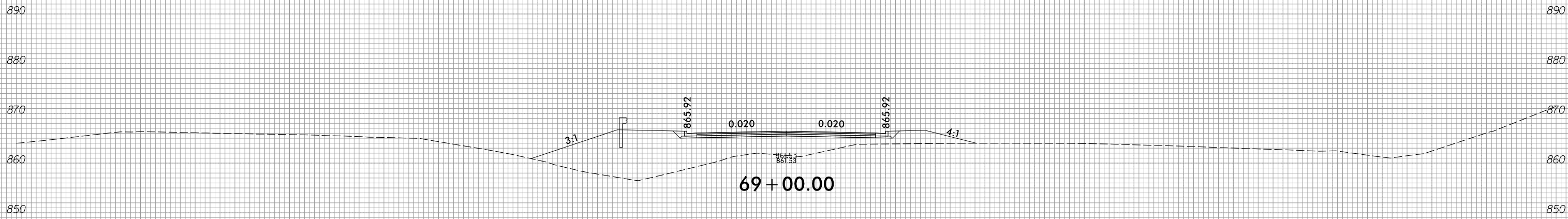
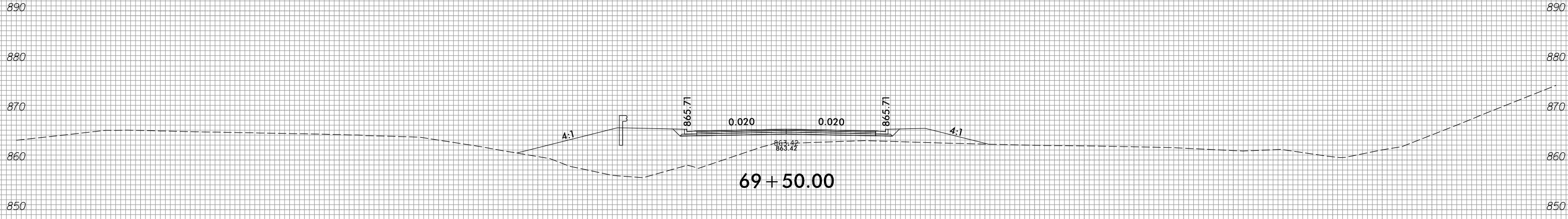


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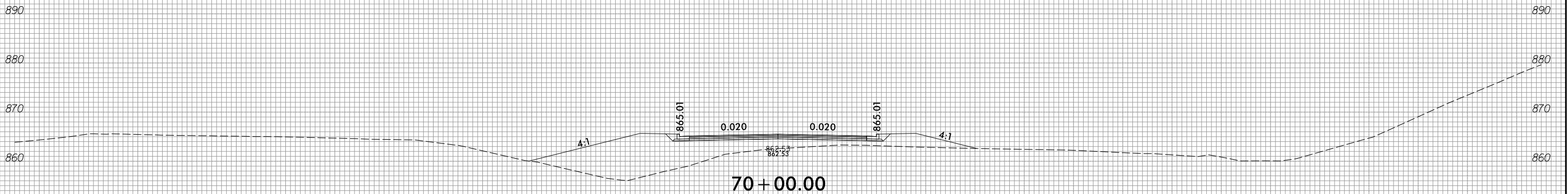
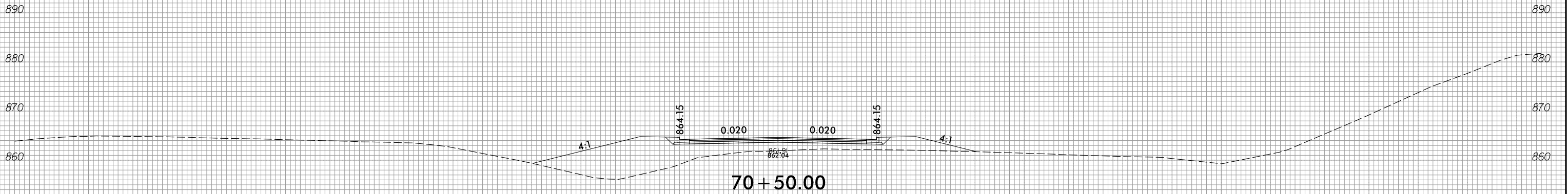
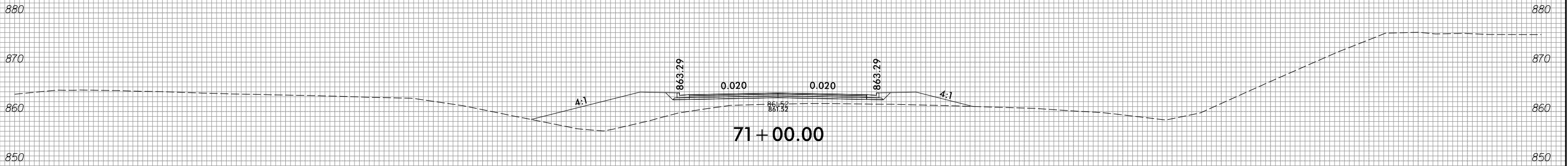
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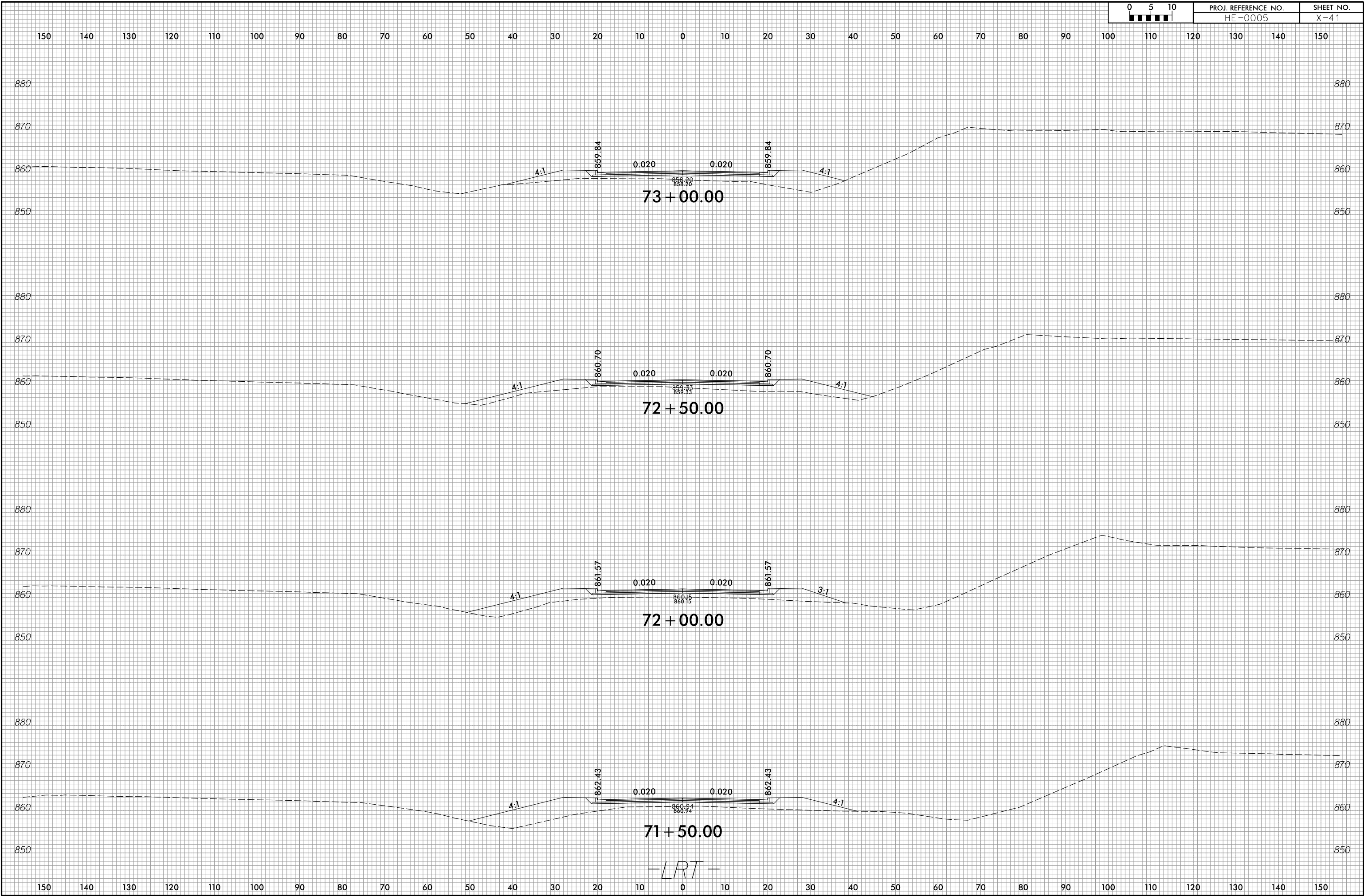
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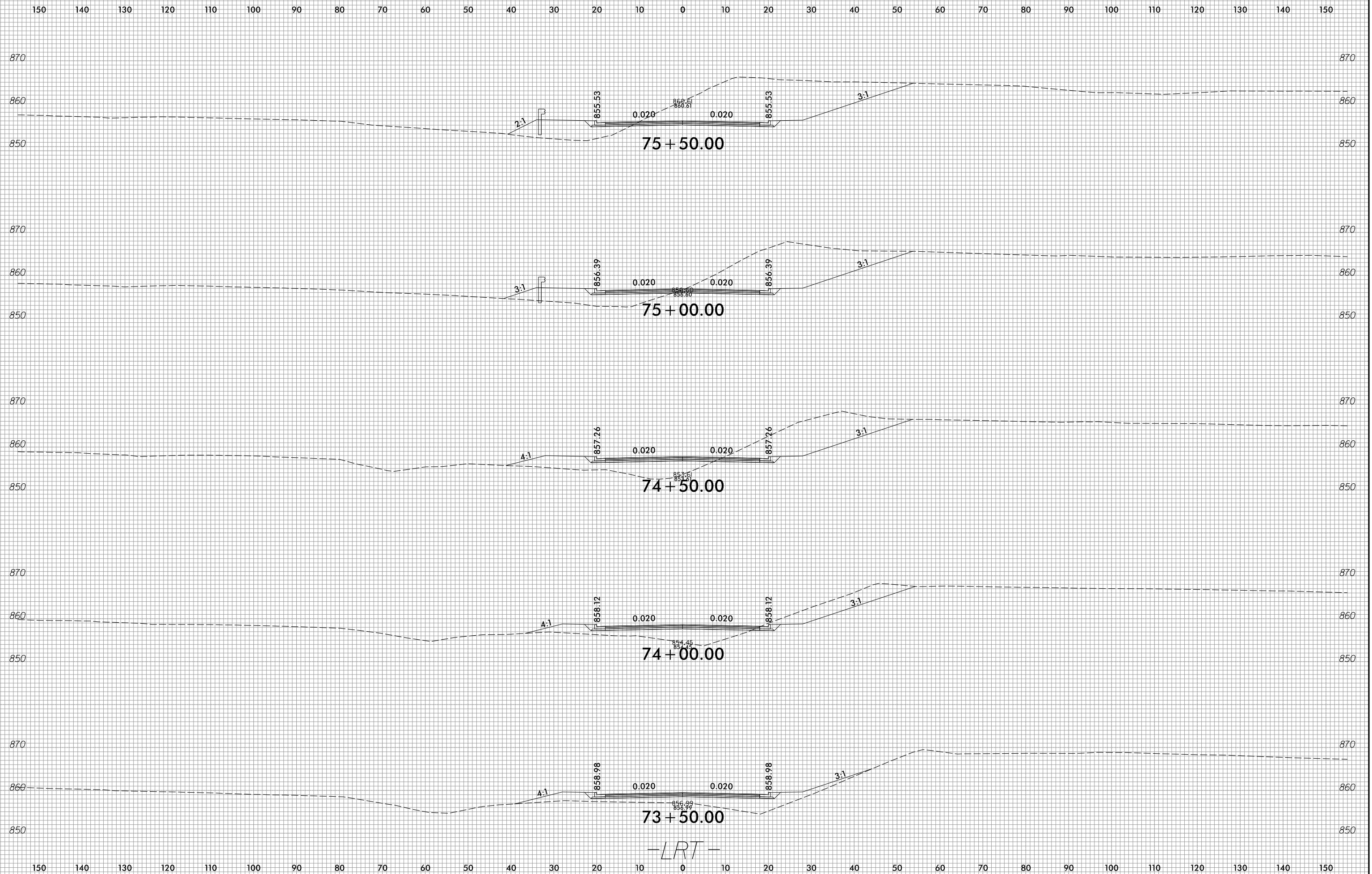


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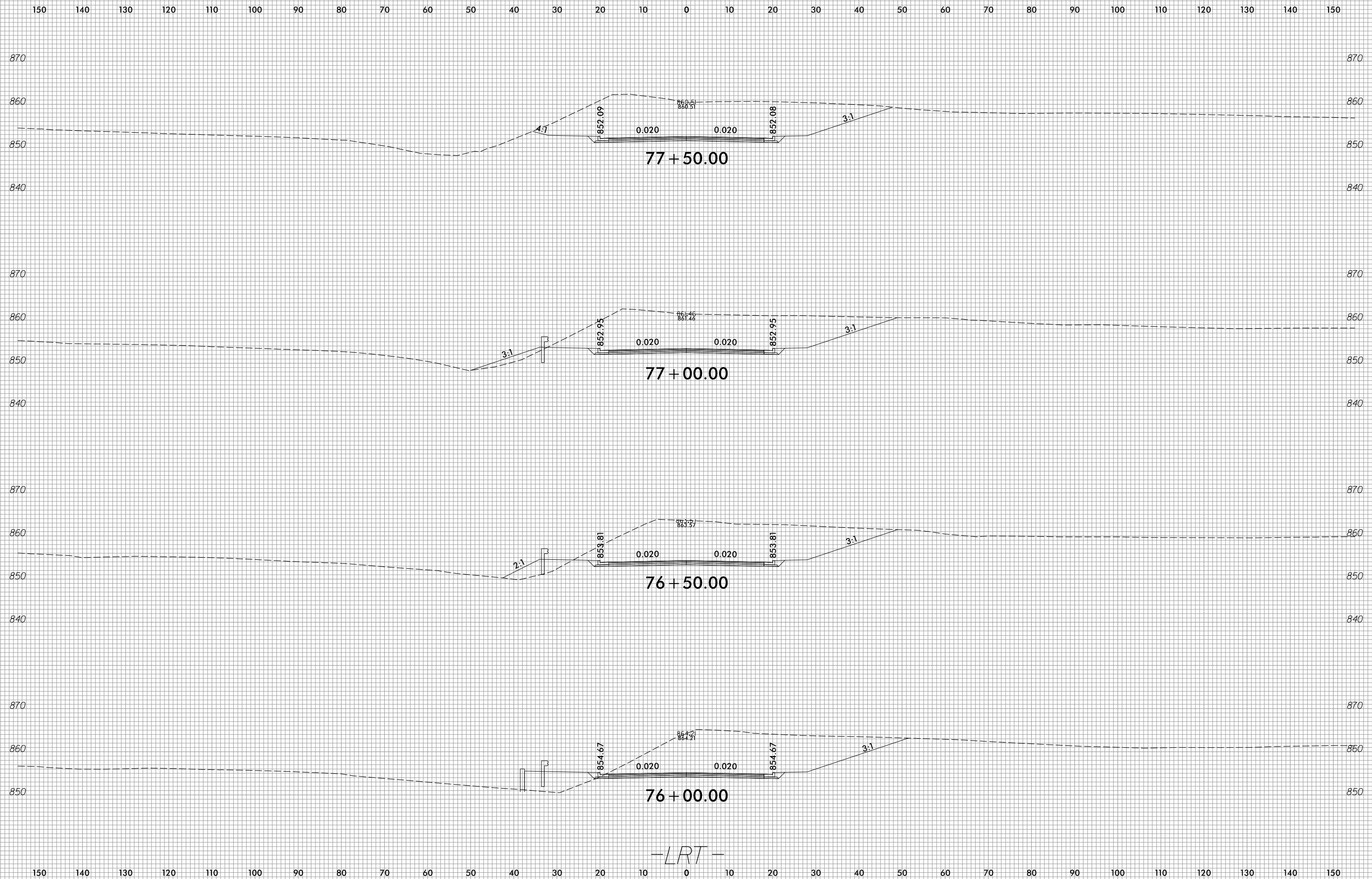


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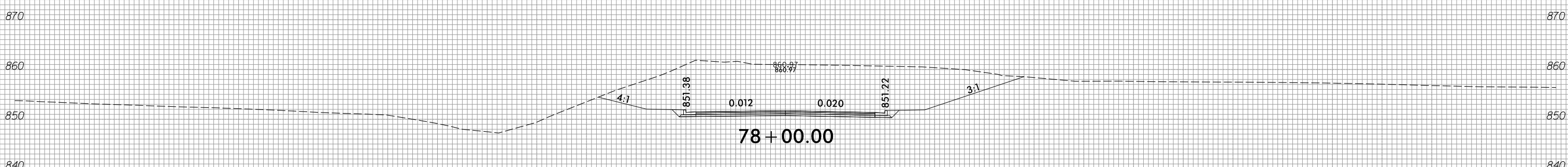
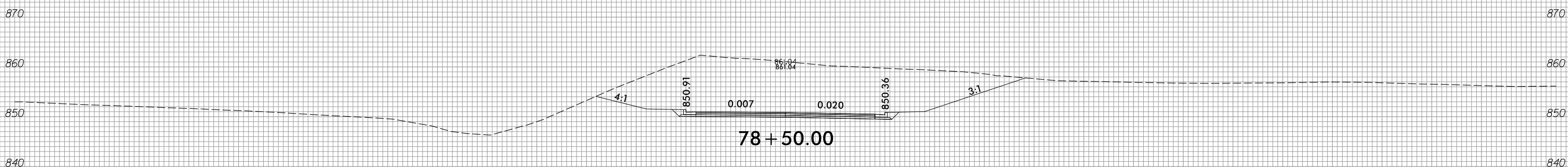
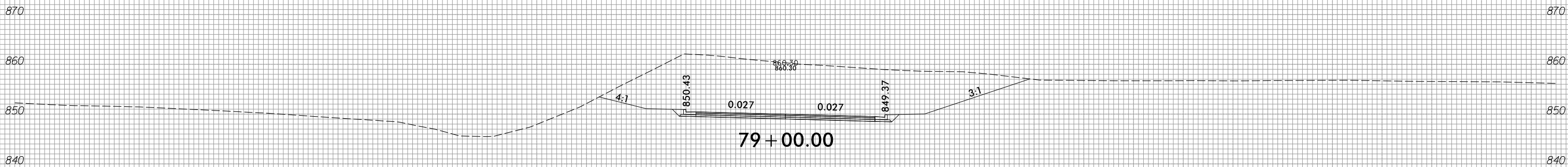
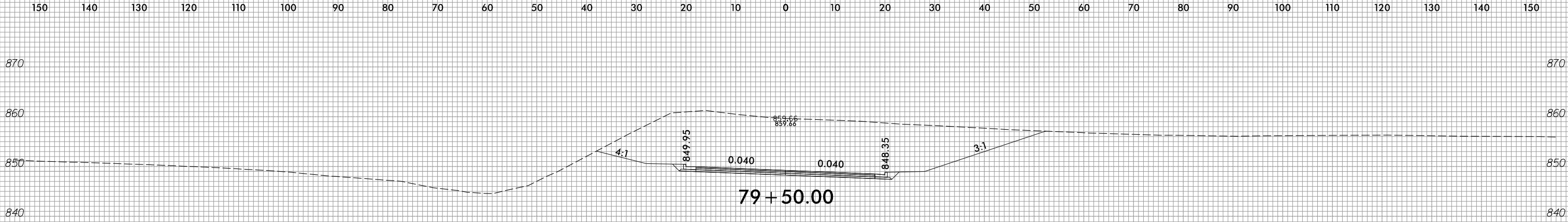




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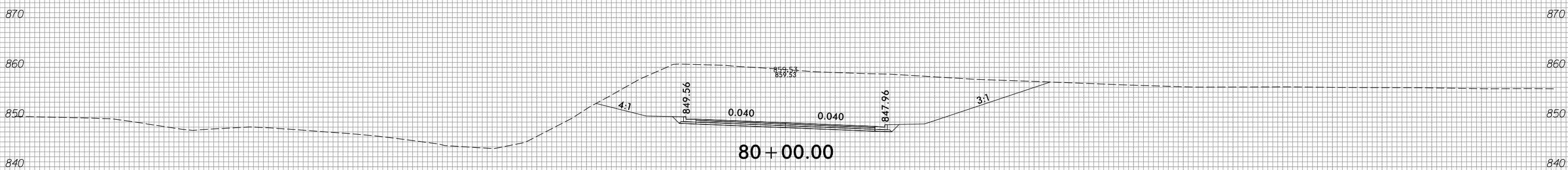
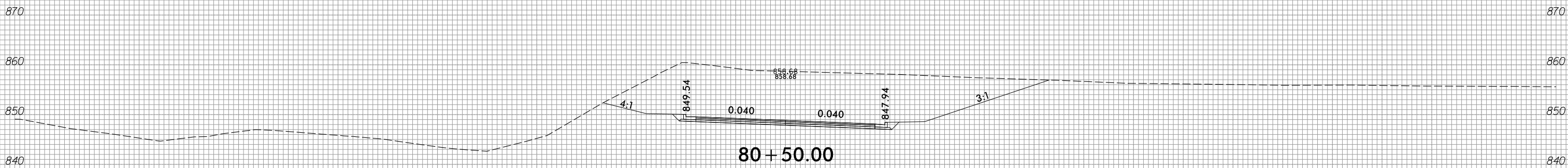
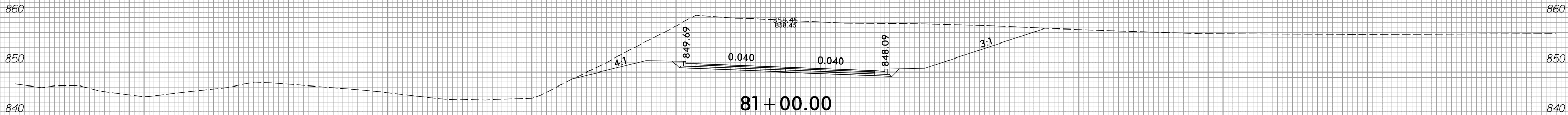
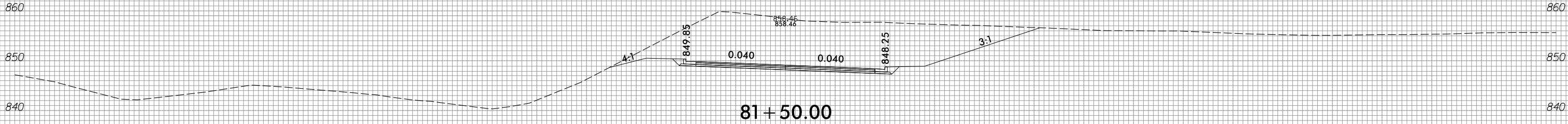
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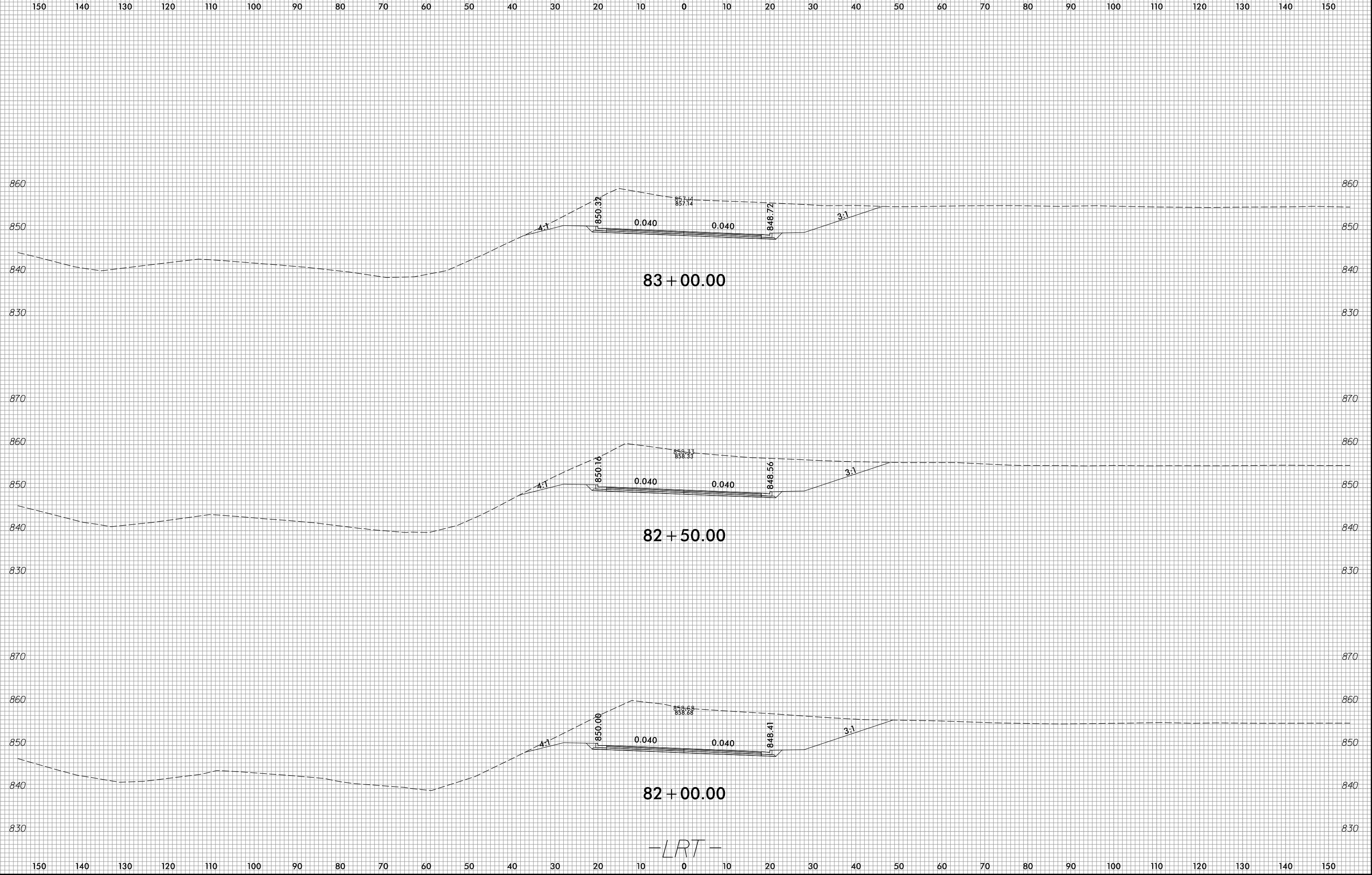


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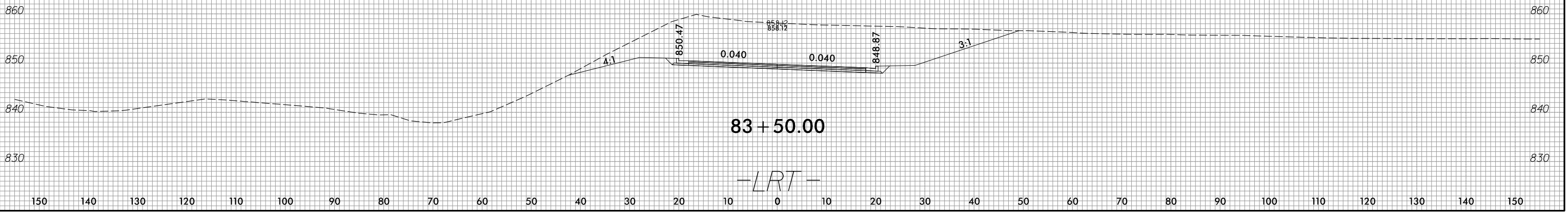
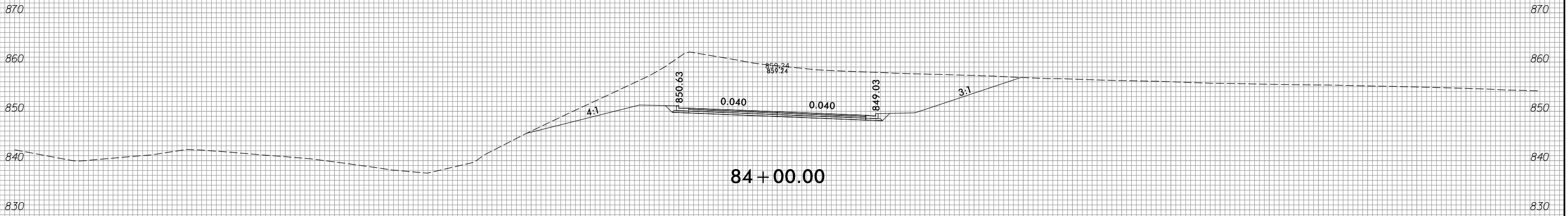
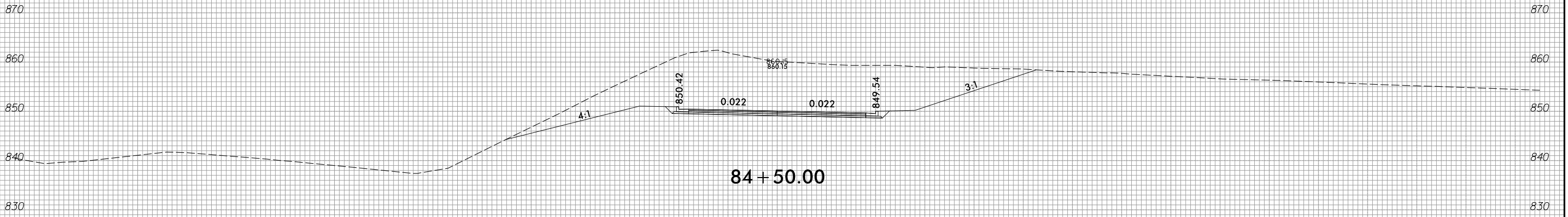
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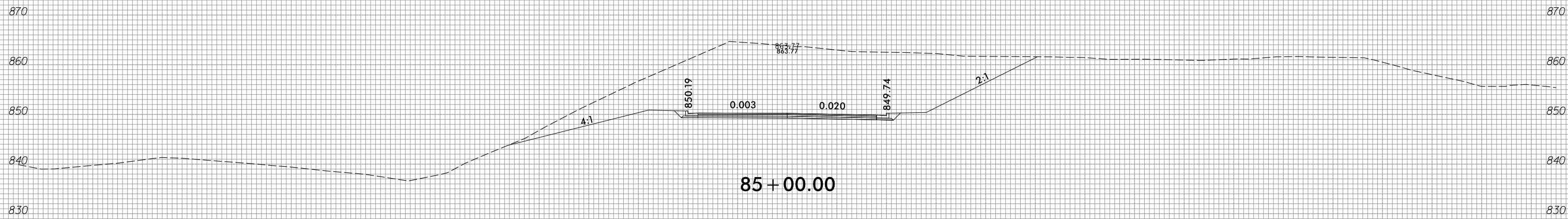
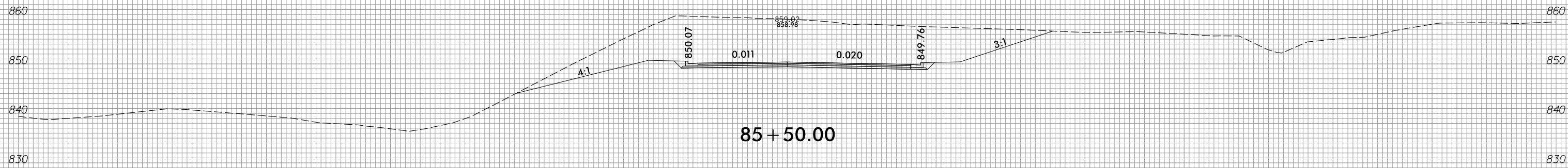
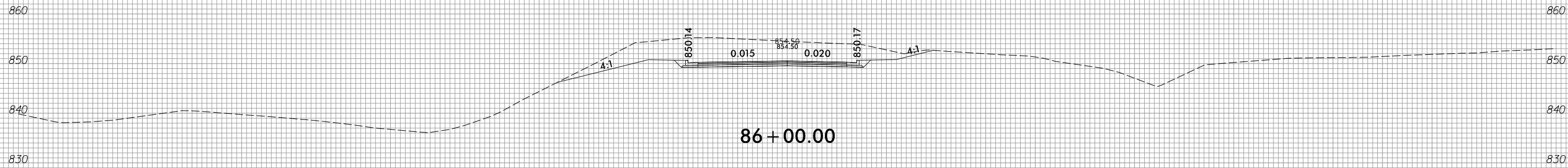


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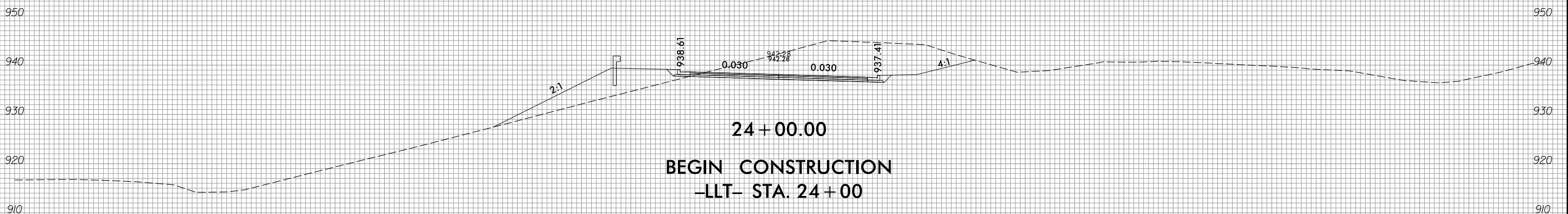
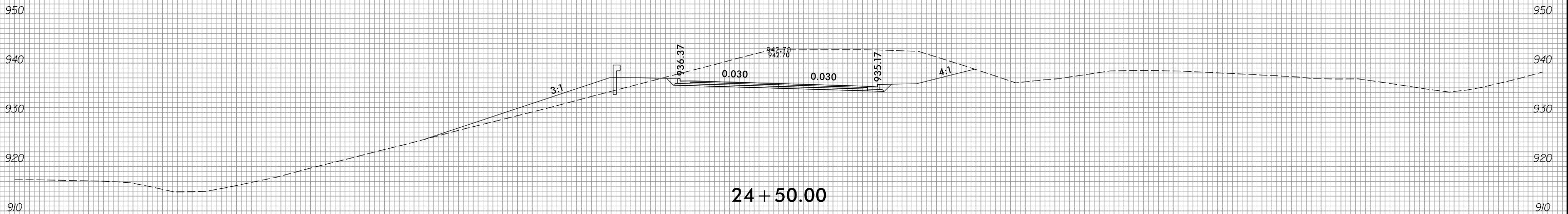
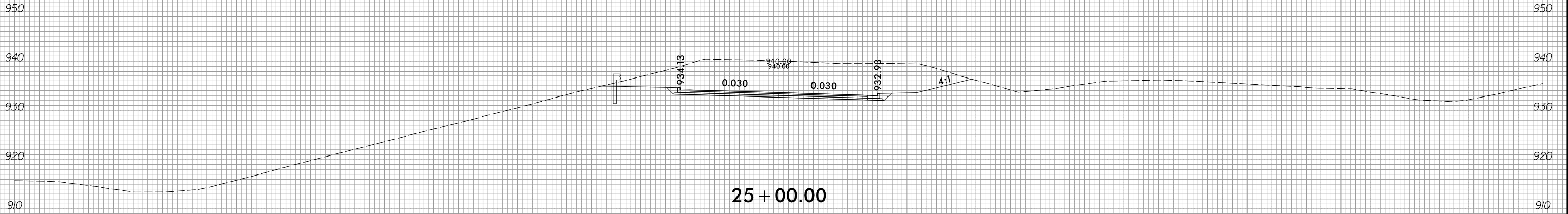
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**-LRT- STA. 86 + 41.93**



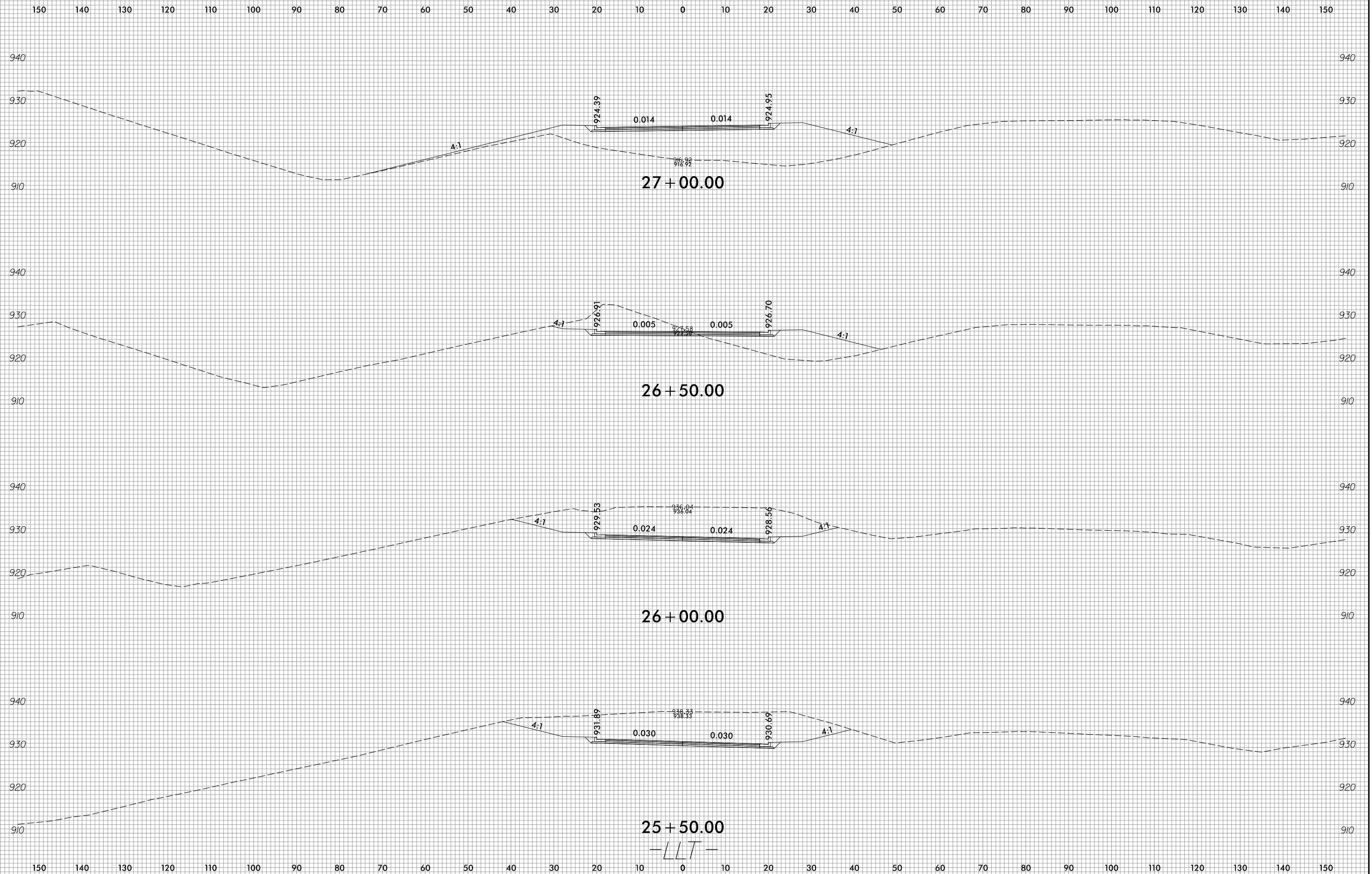
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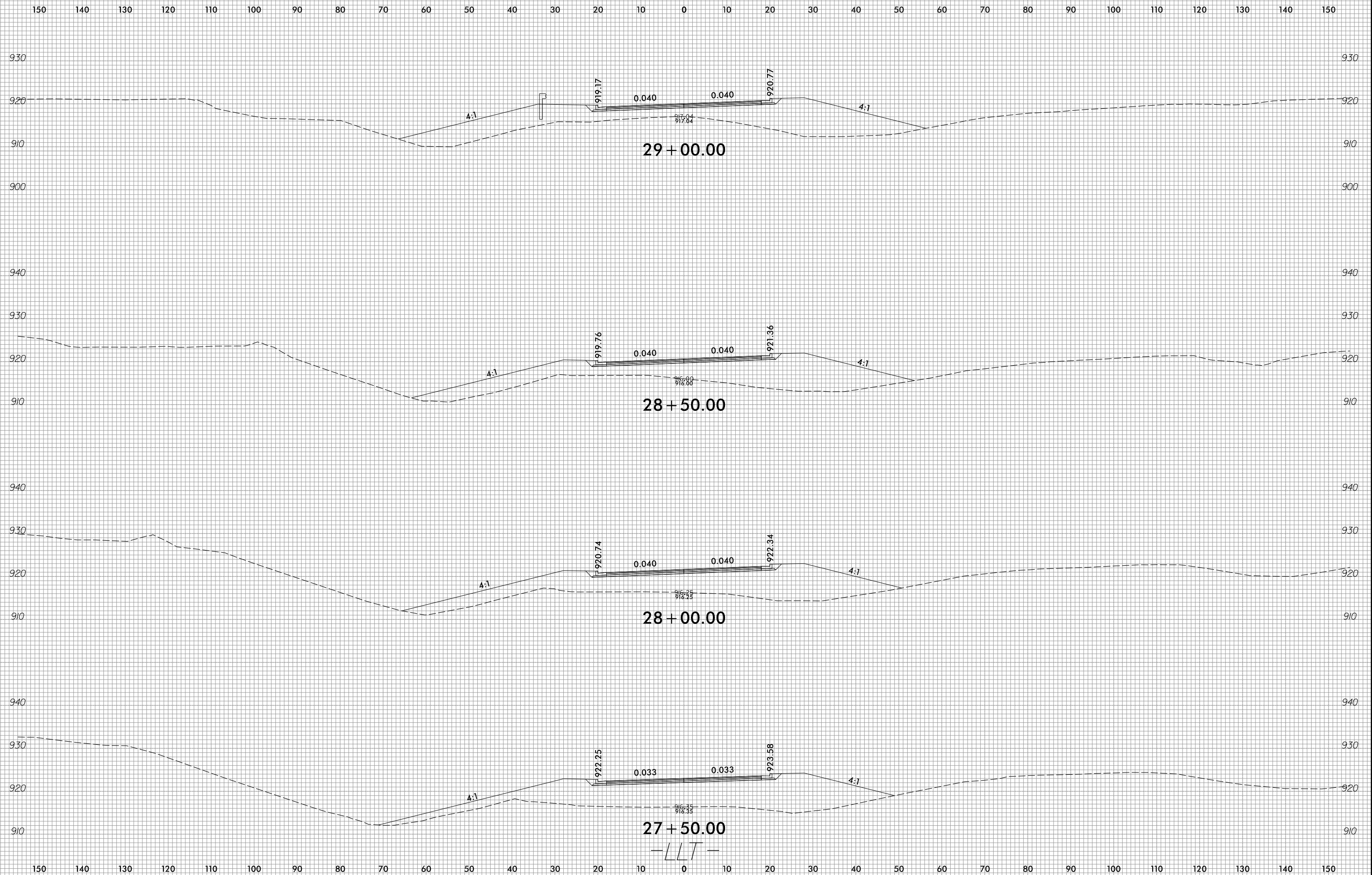
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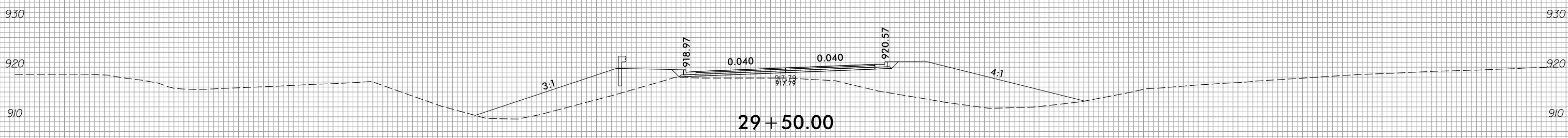
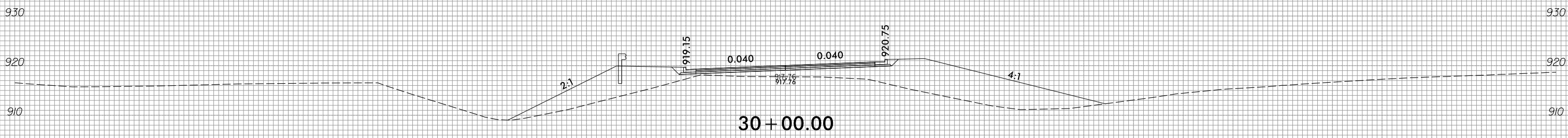
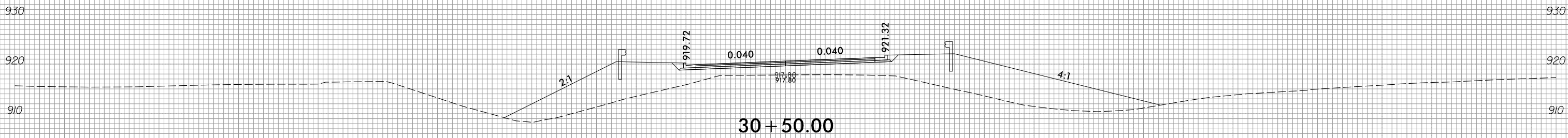
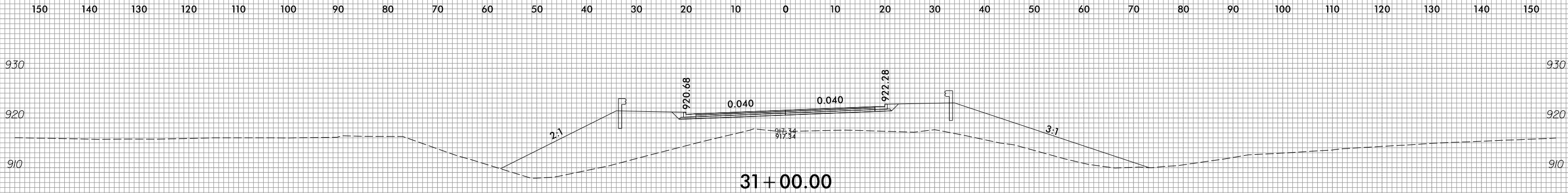
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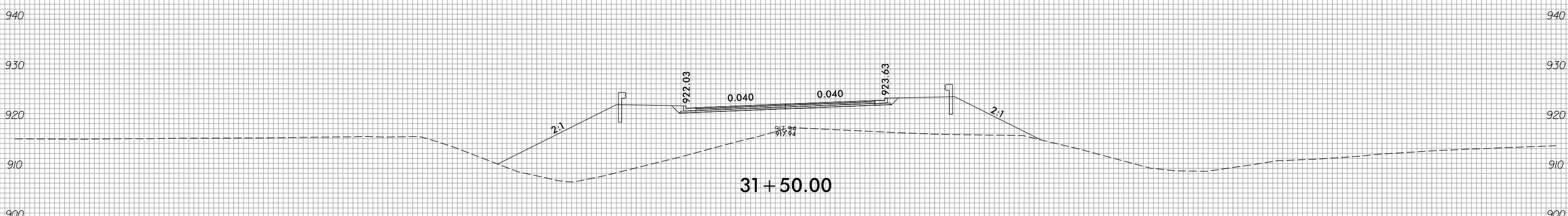
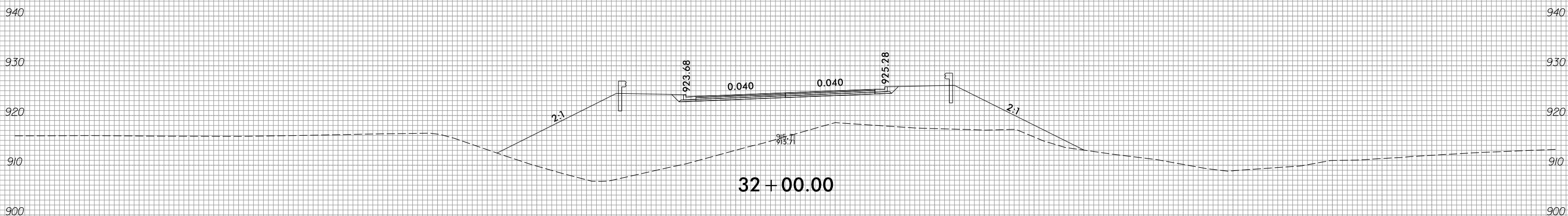
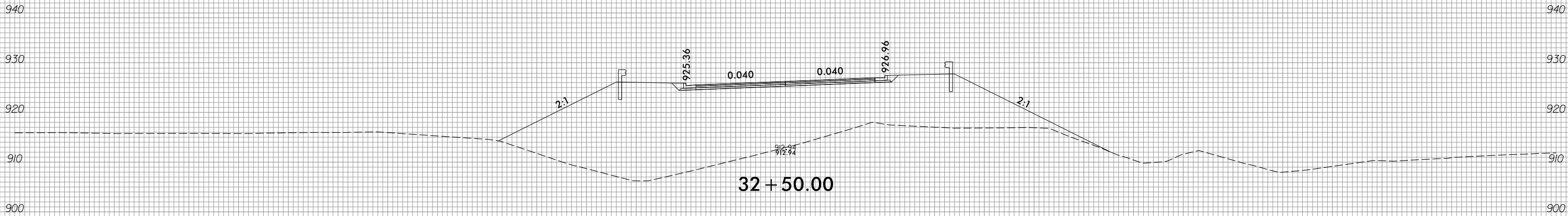




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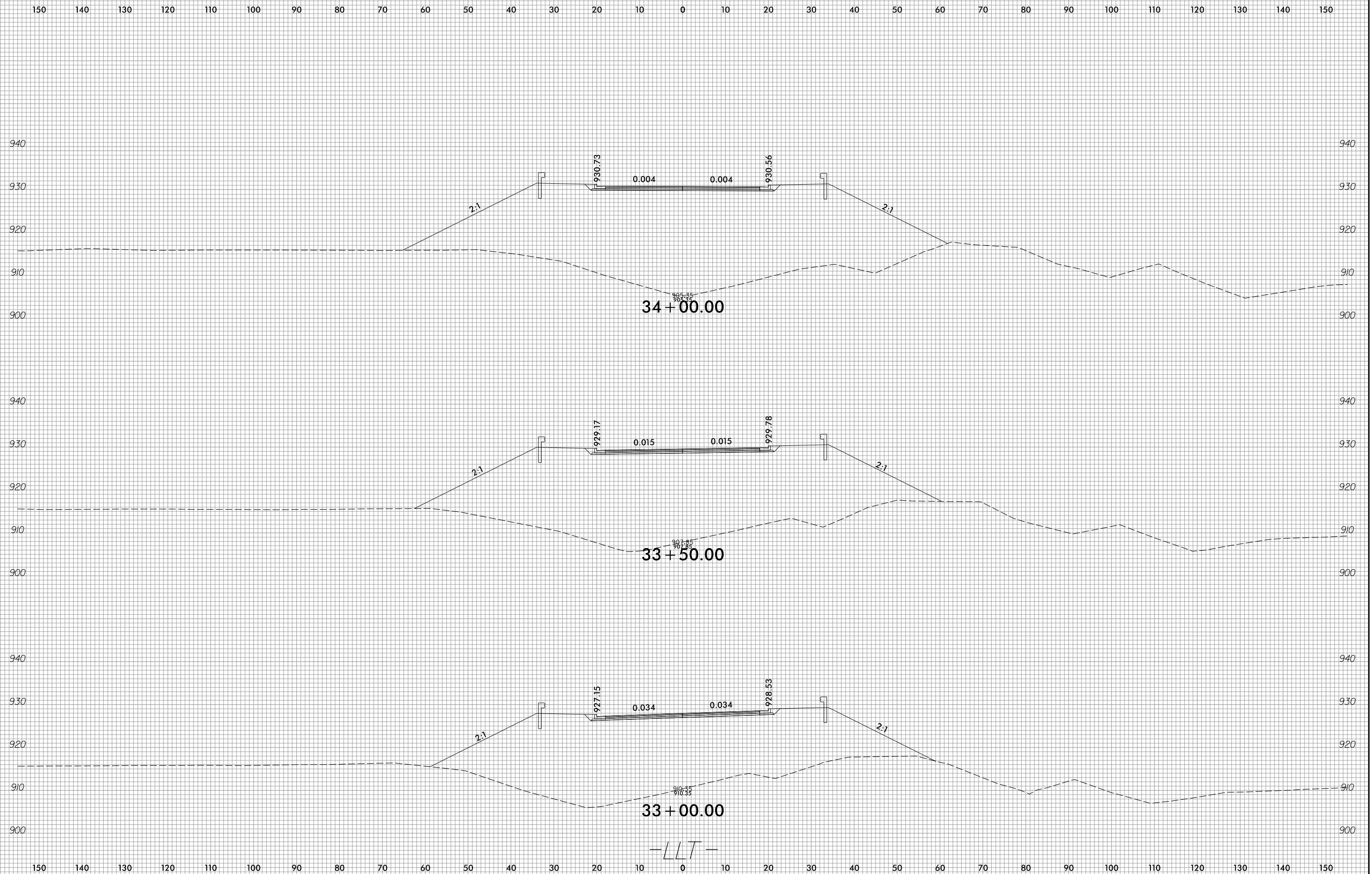


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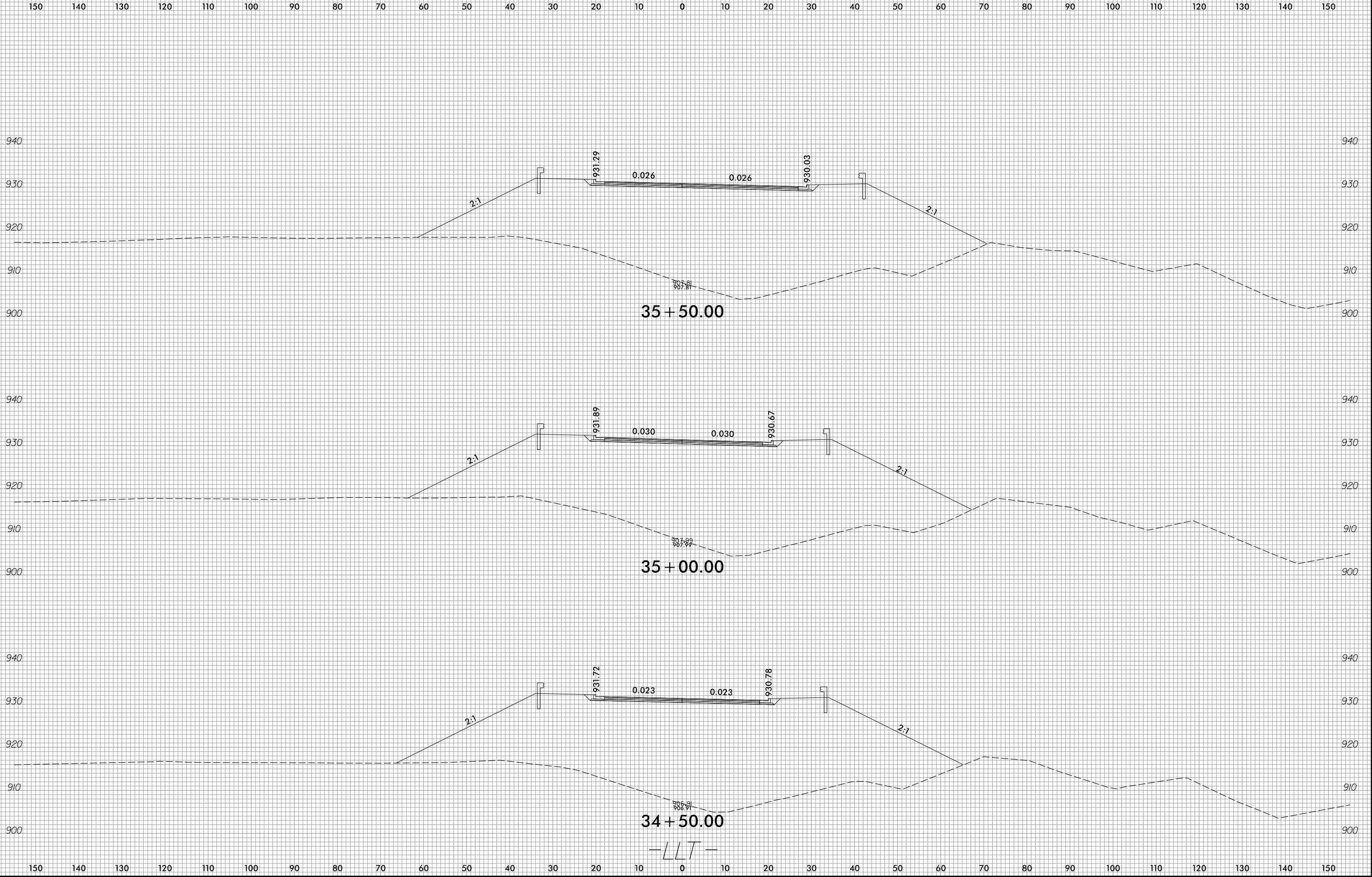


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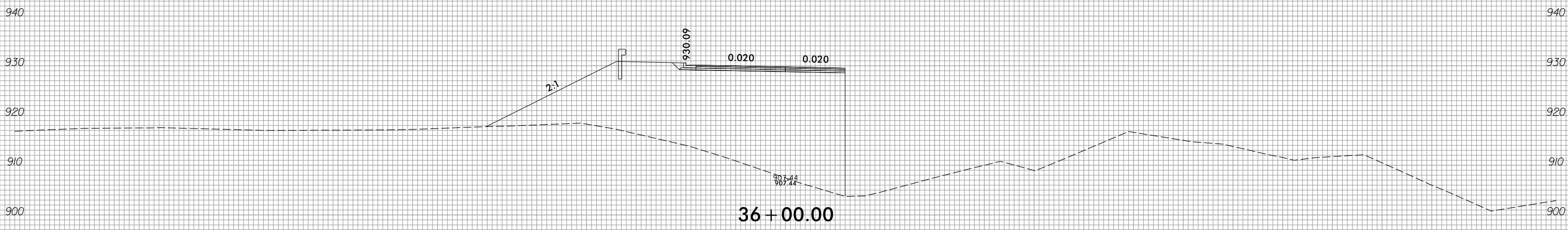
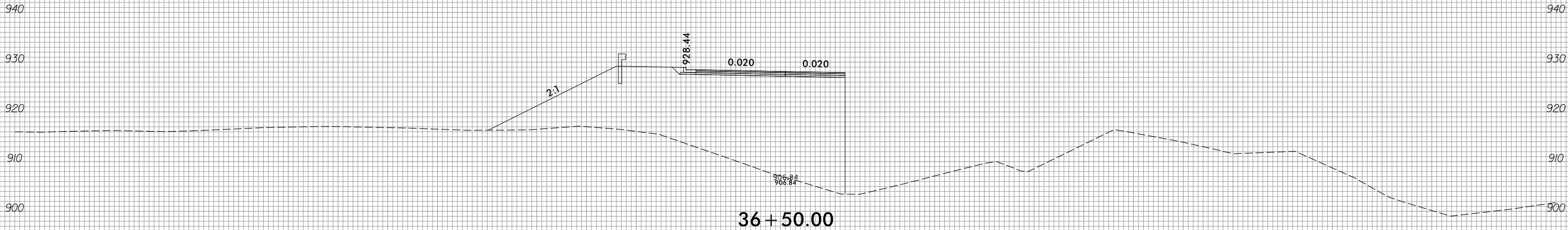


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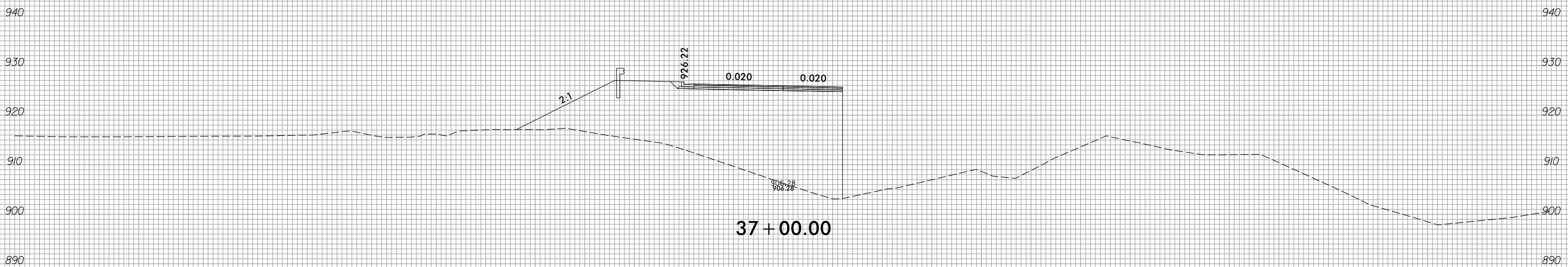
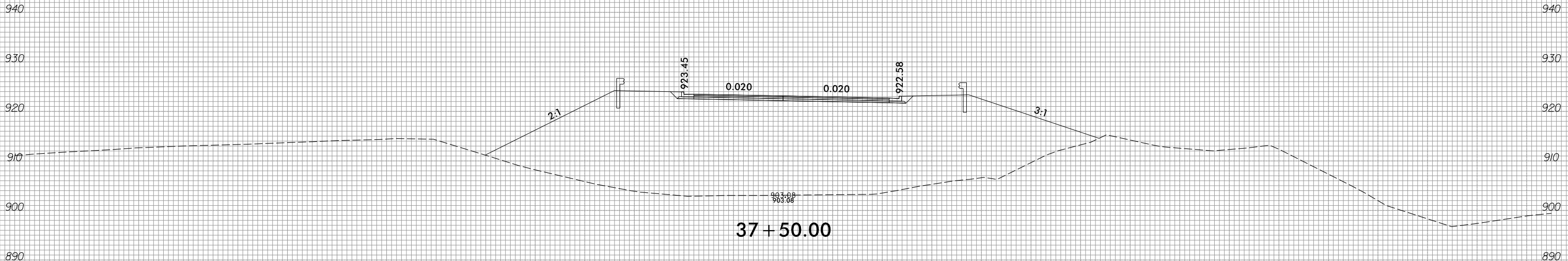
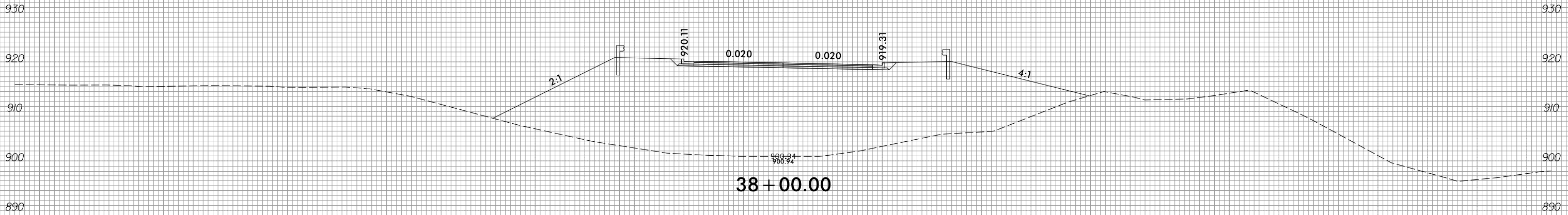
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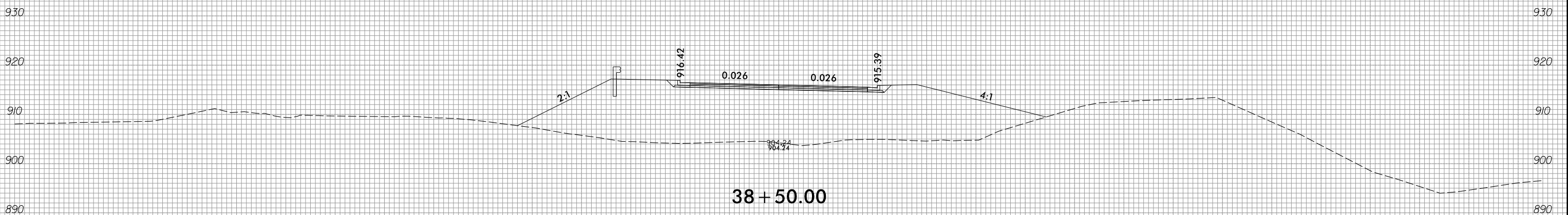
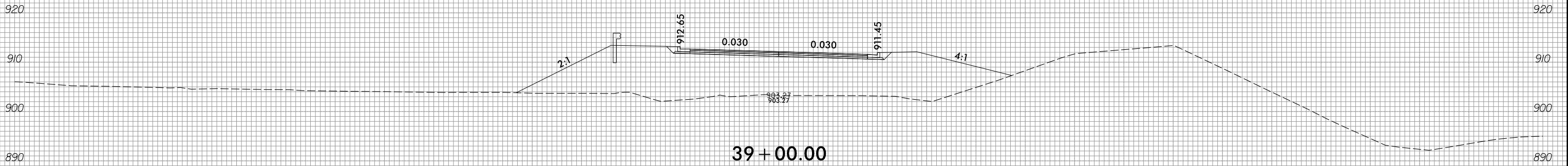
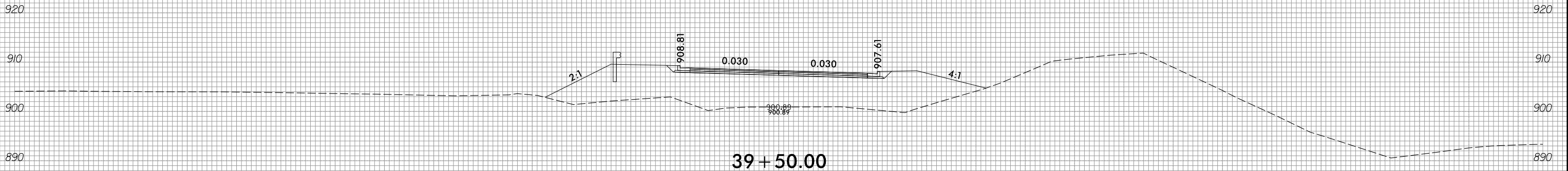


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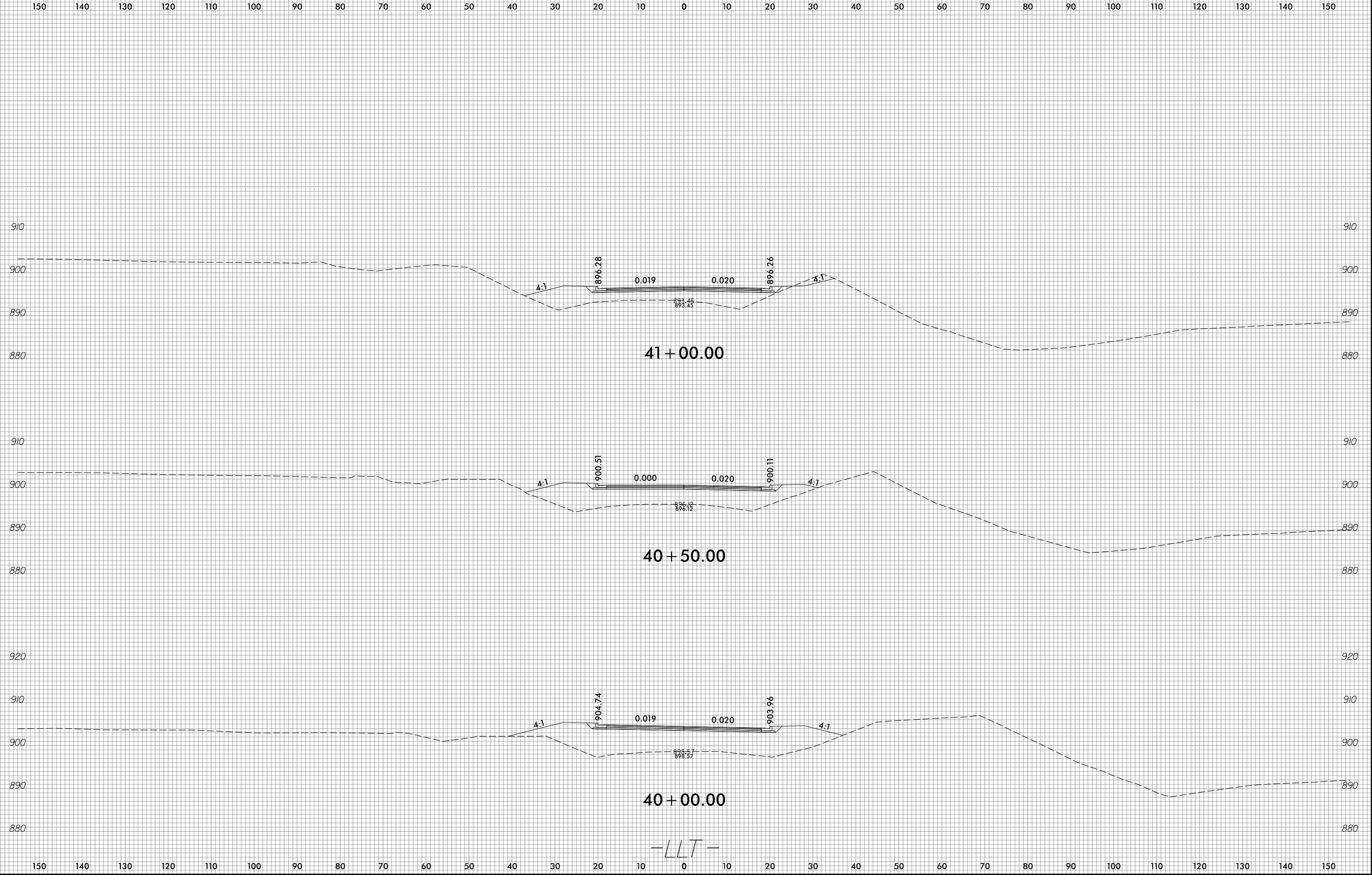


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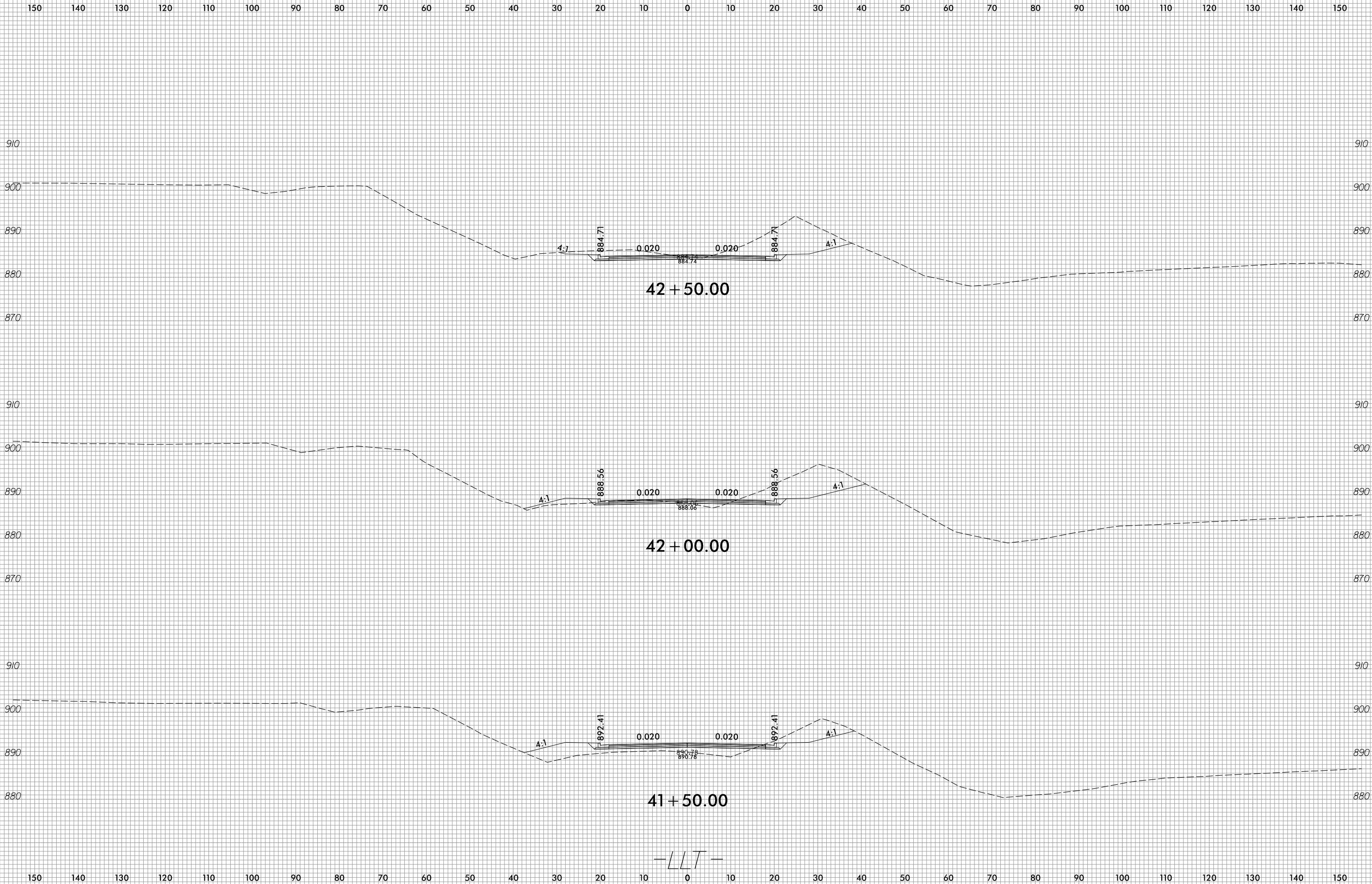


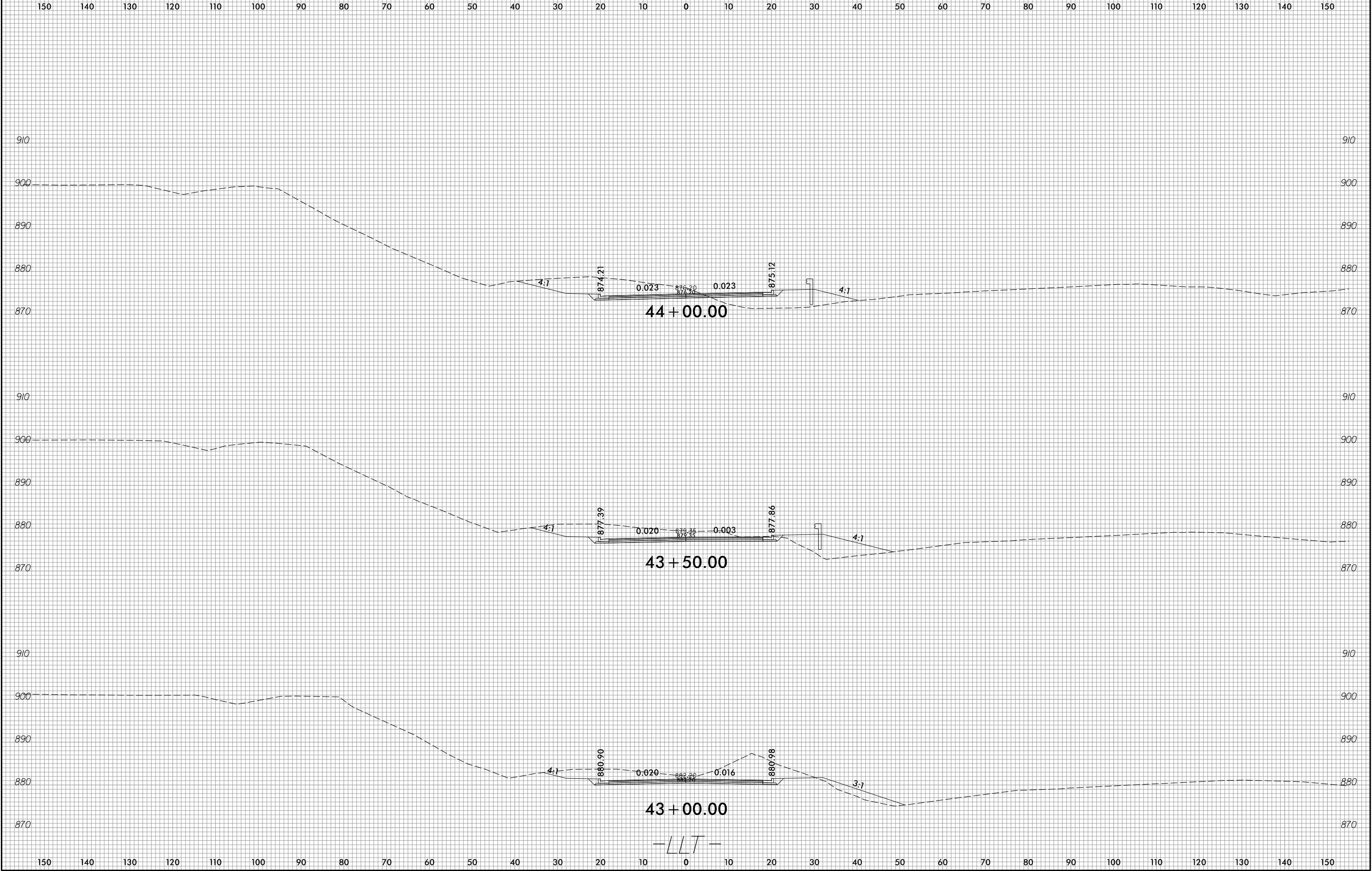
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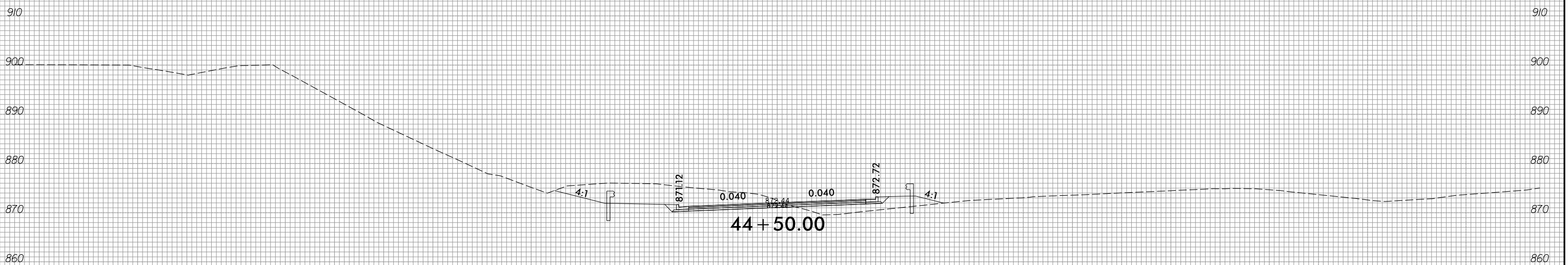
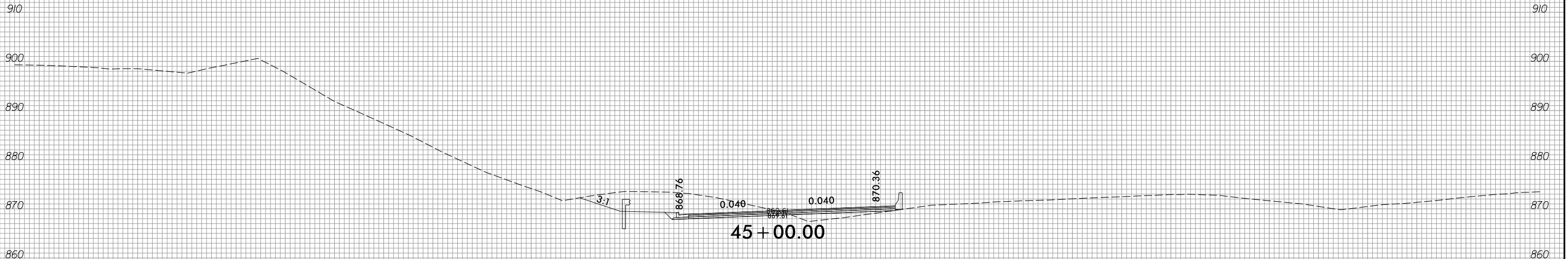


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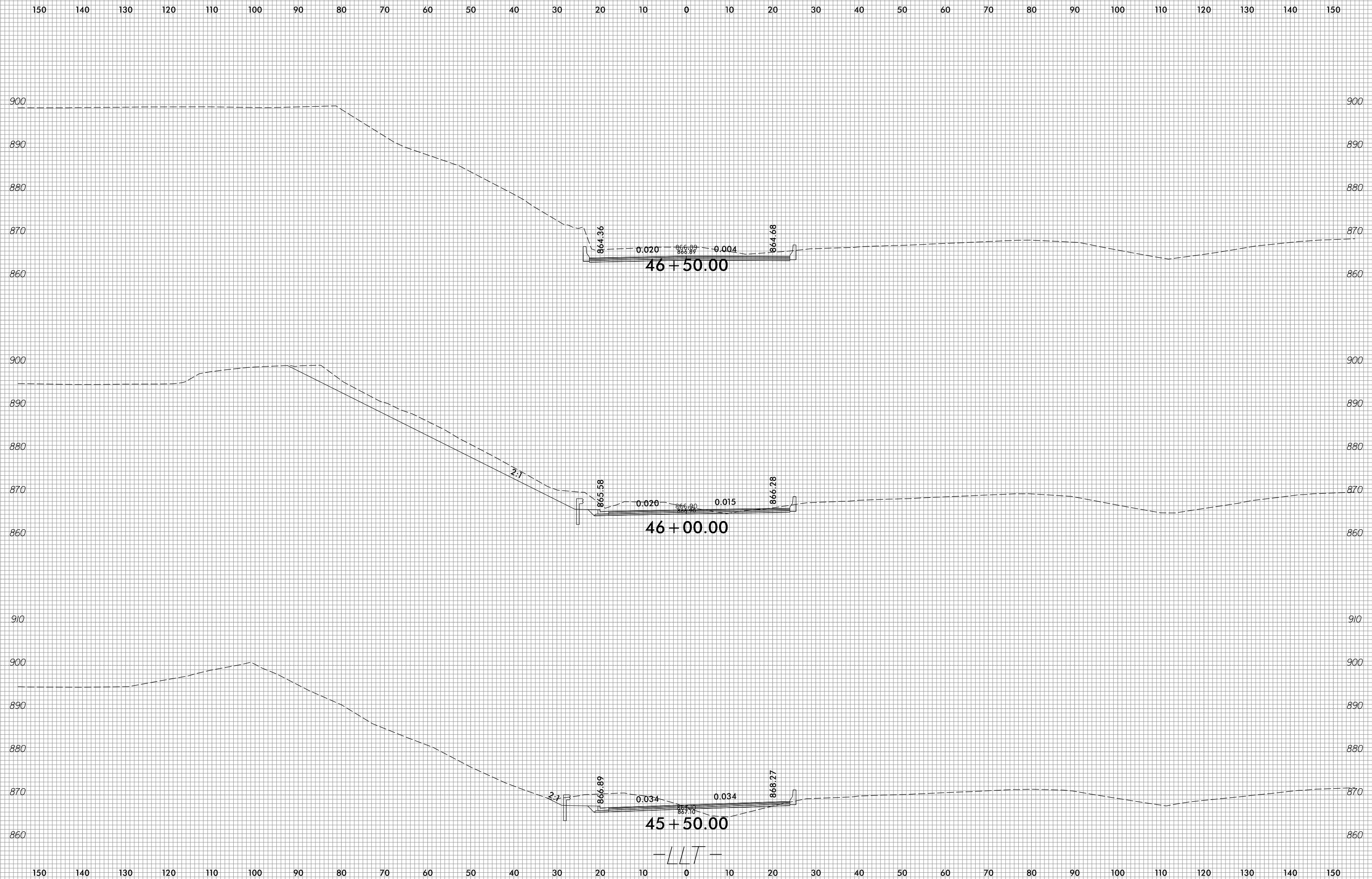


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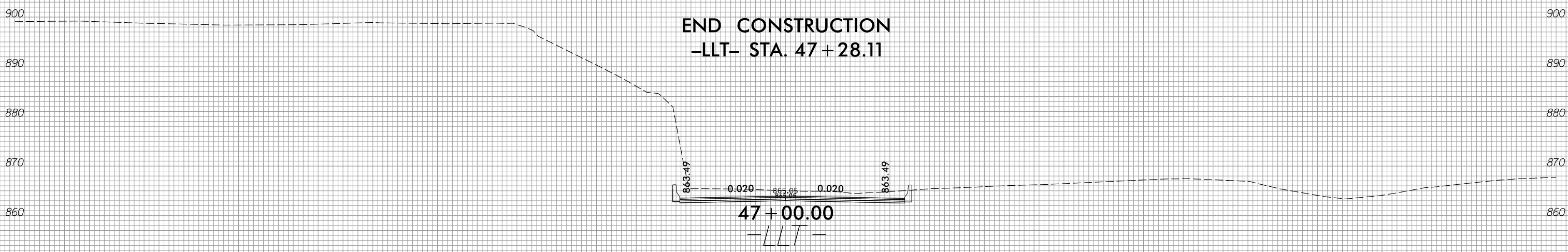
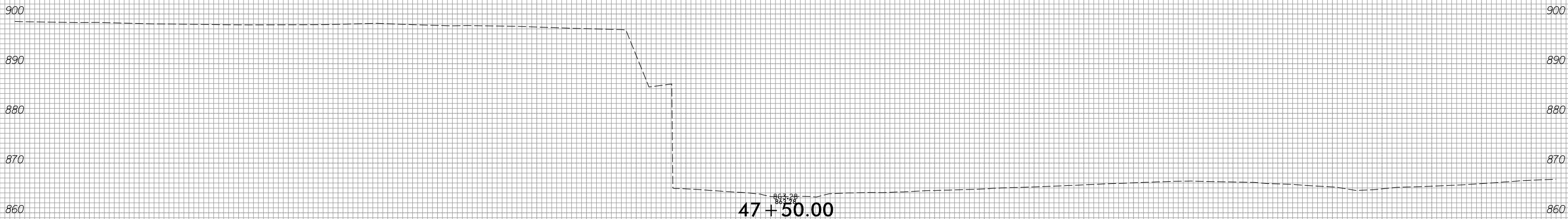
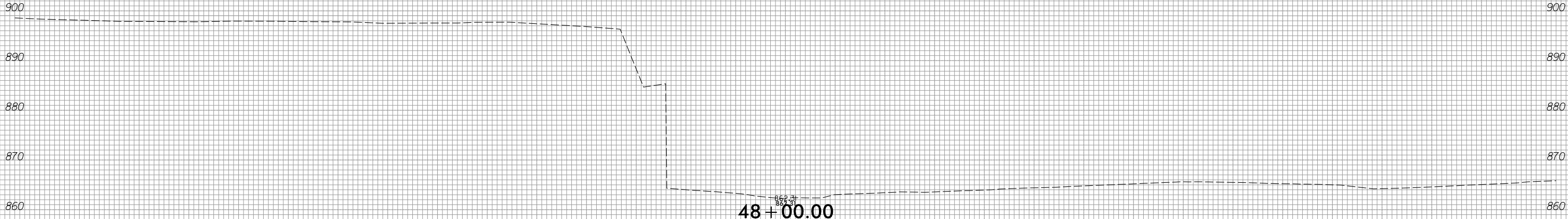
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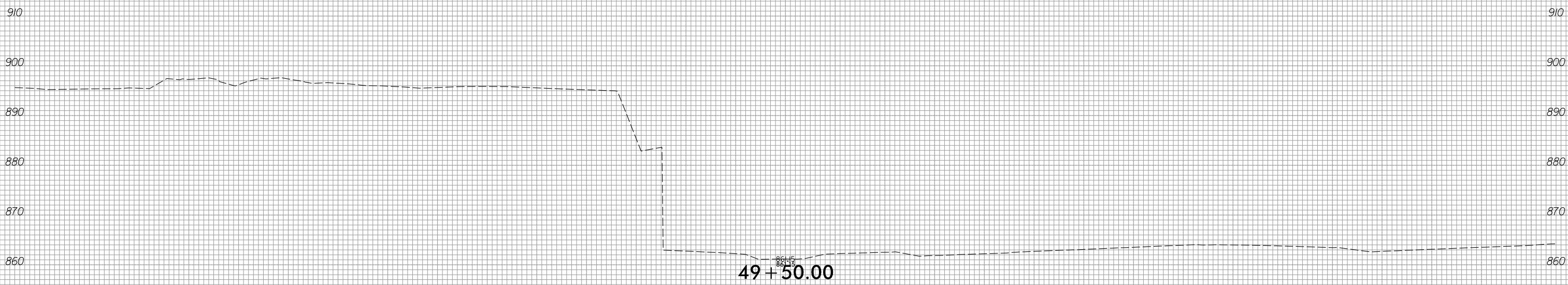
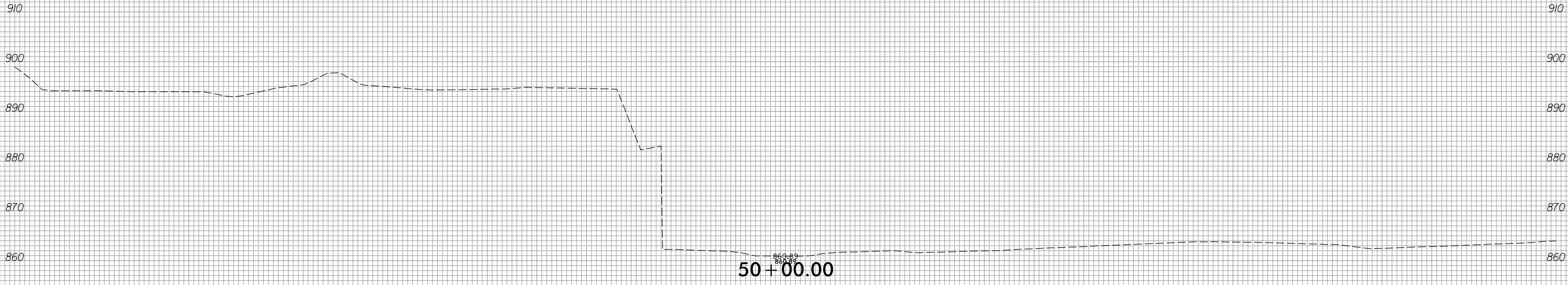


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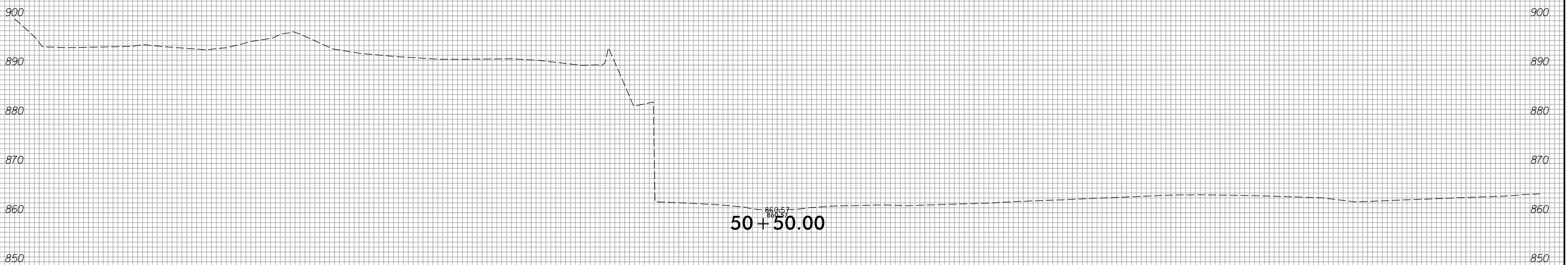
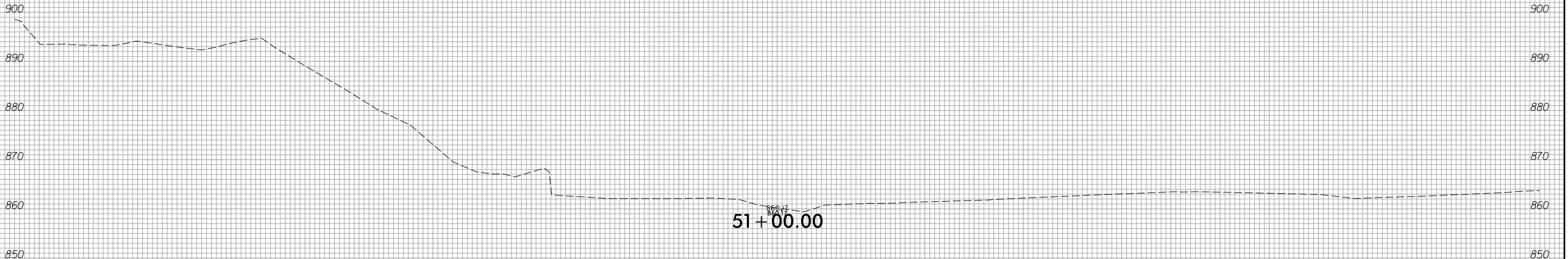
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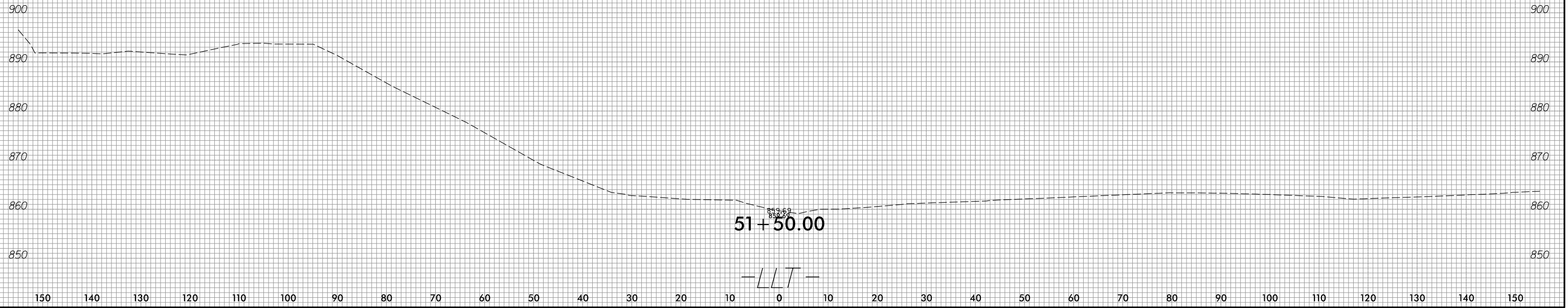
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-LLT-



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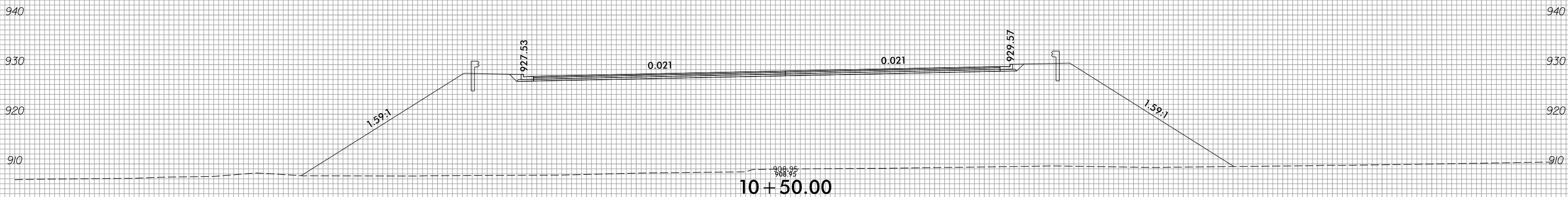
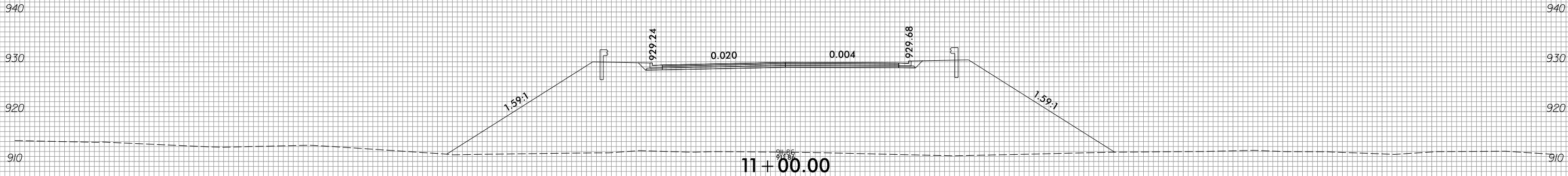


51+50.00

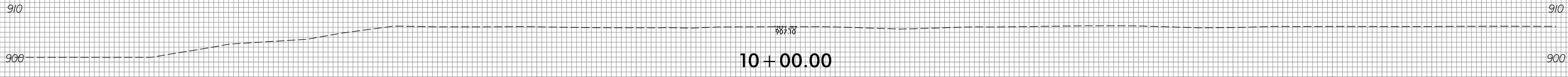
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BEGIN CONSTRUCTION  
-Y1- STA. 10+18



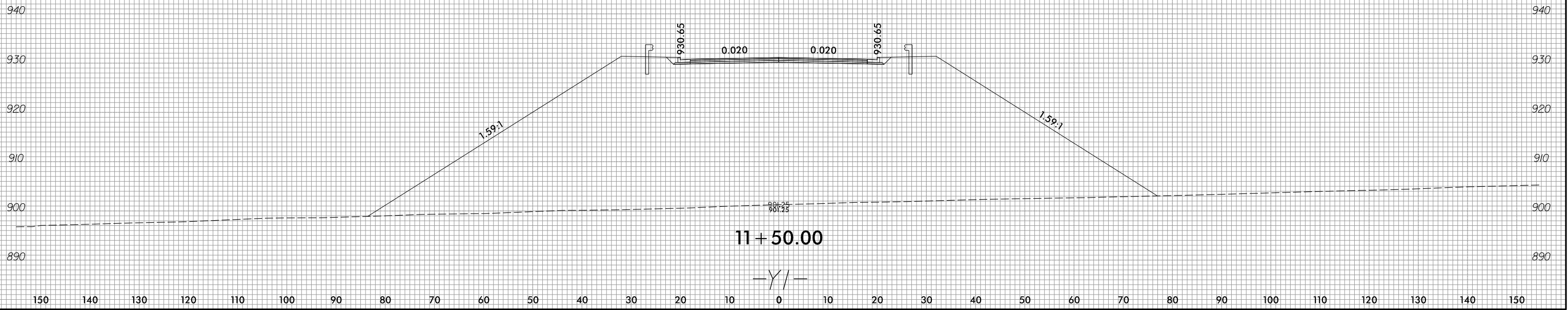
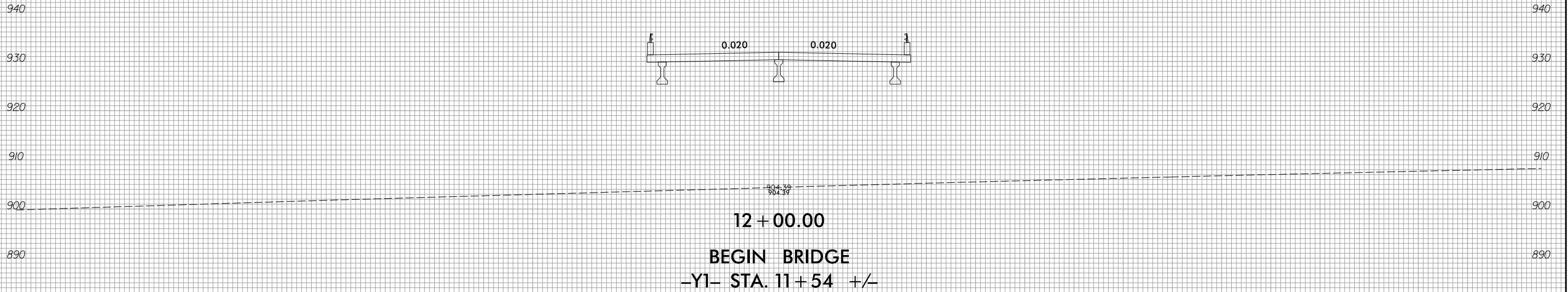
-Y/-

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

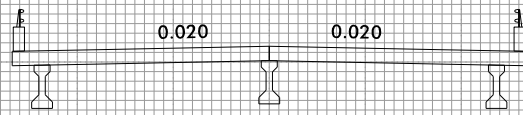


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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

**END BRIDGE**  
**-Y1- STA. 13+40 +/-**



940

940

930

930

920

920

910

910

900

900

13+00.00

890

890

940

940

930

930

920

920

910

910

900

900

12+50.00

890

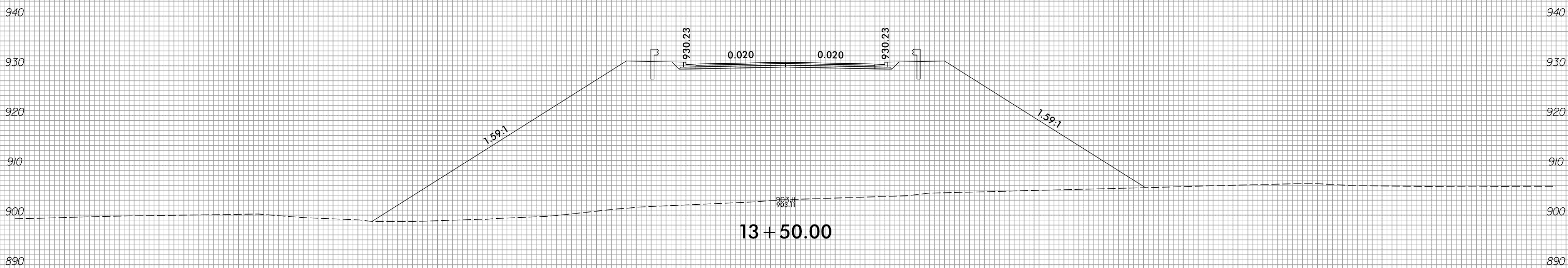
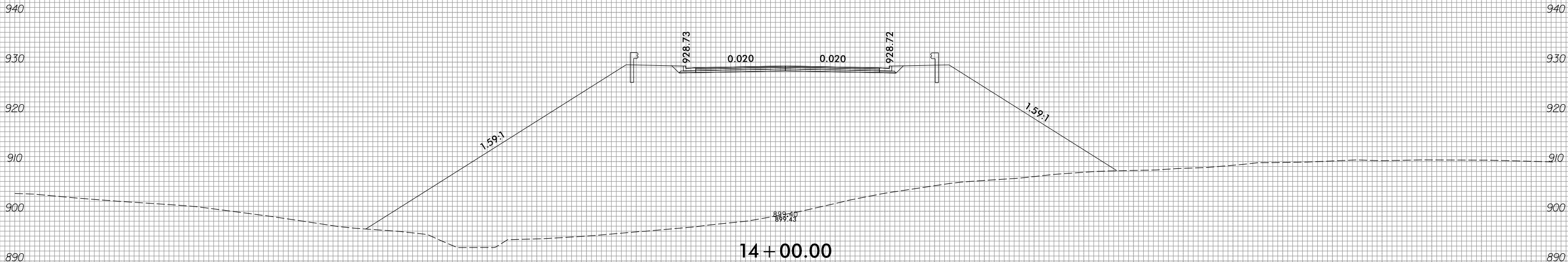
890

-Y/-

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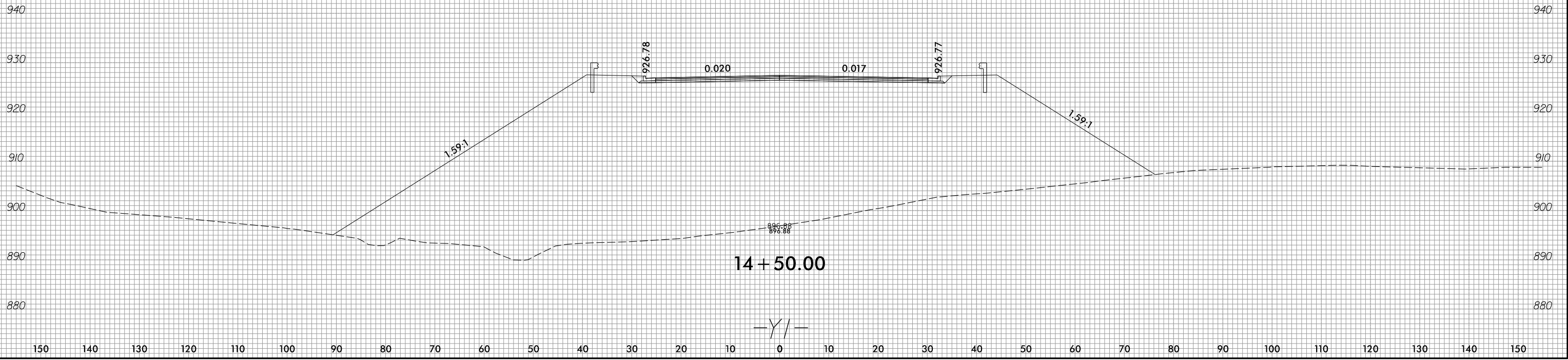
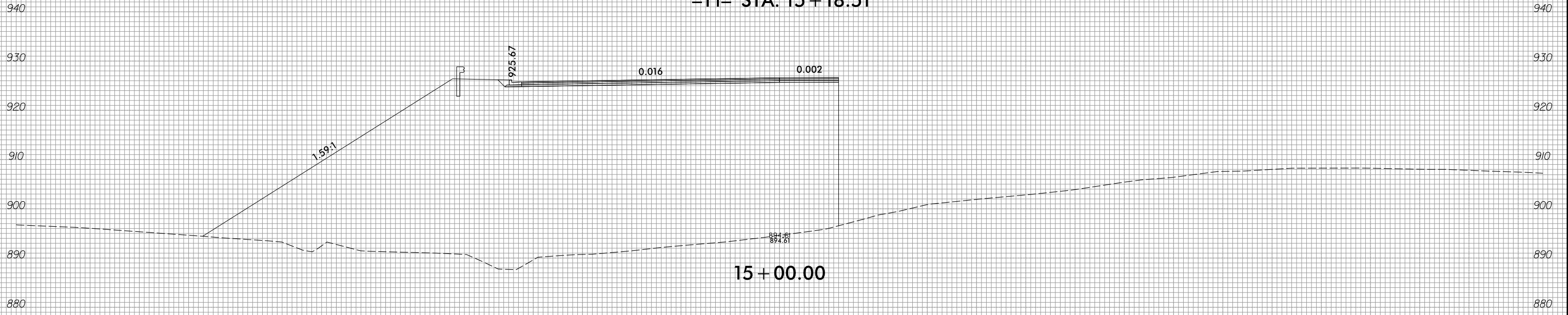


-Y/-

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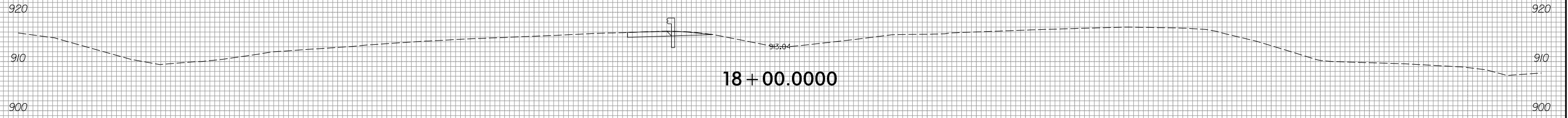
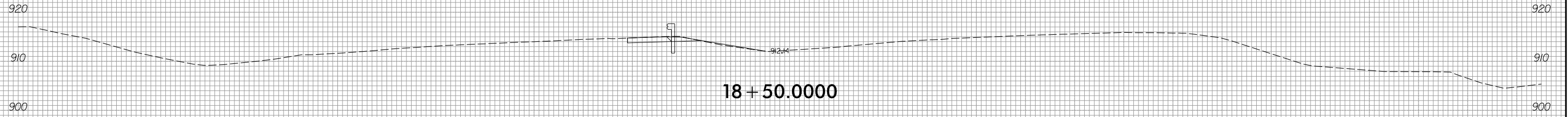
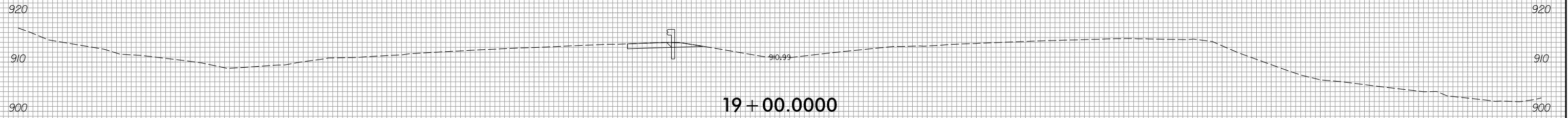
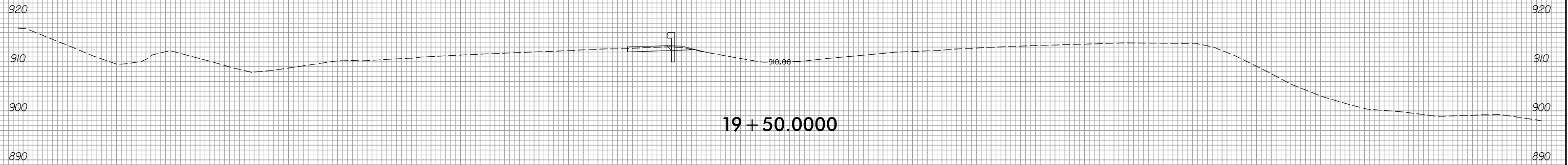
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**END CONSTRUCTION**  
**-Y1- STA. 15+18.51**





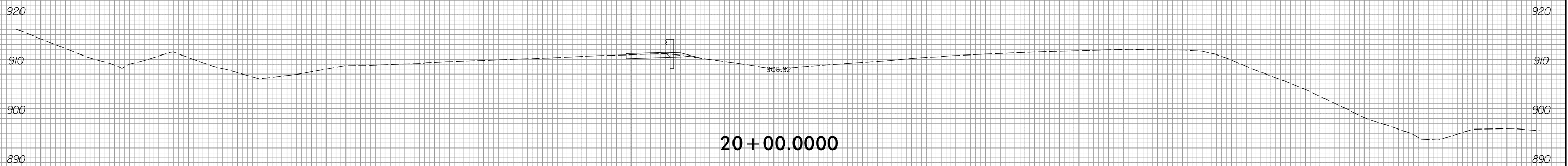
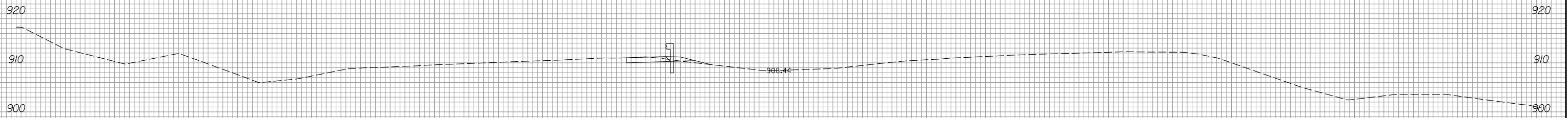
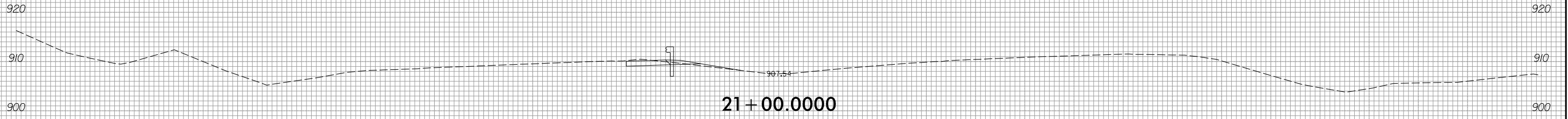
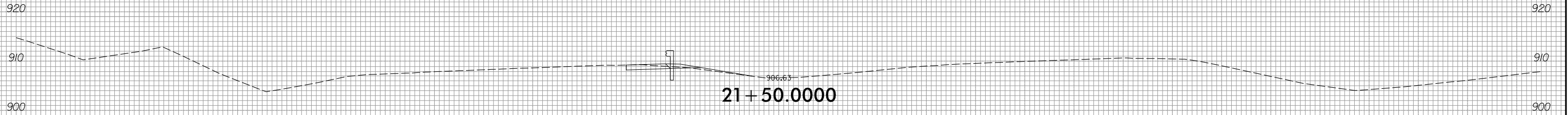
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-EL-



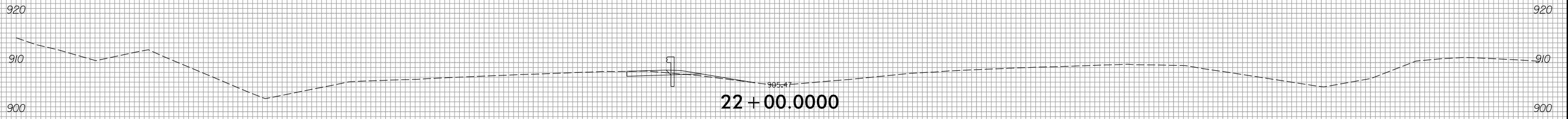
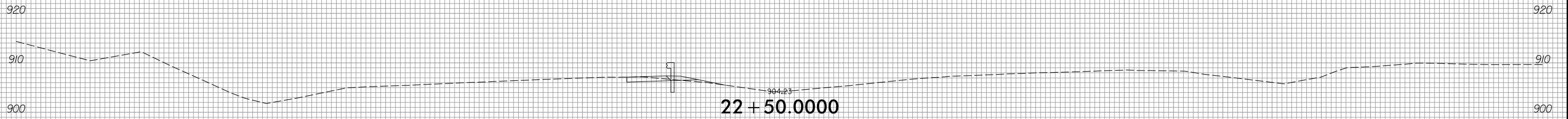
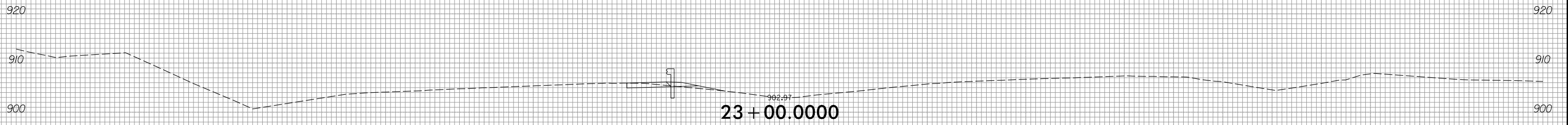
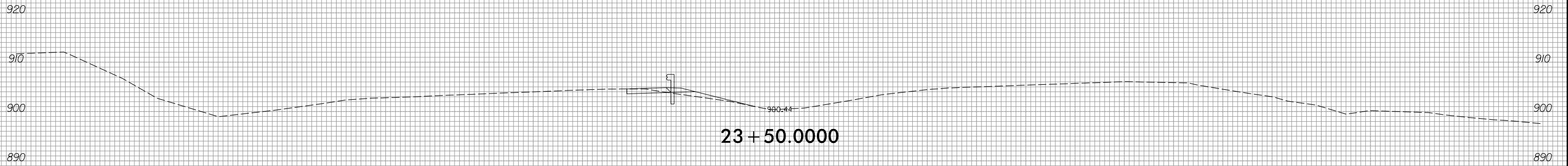
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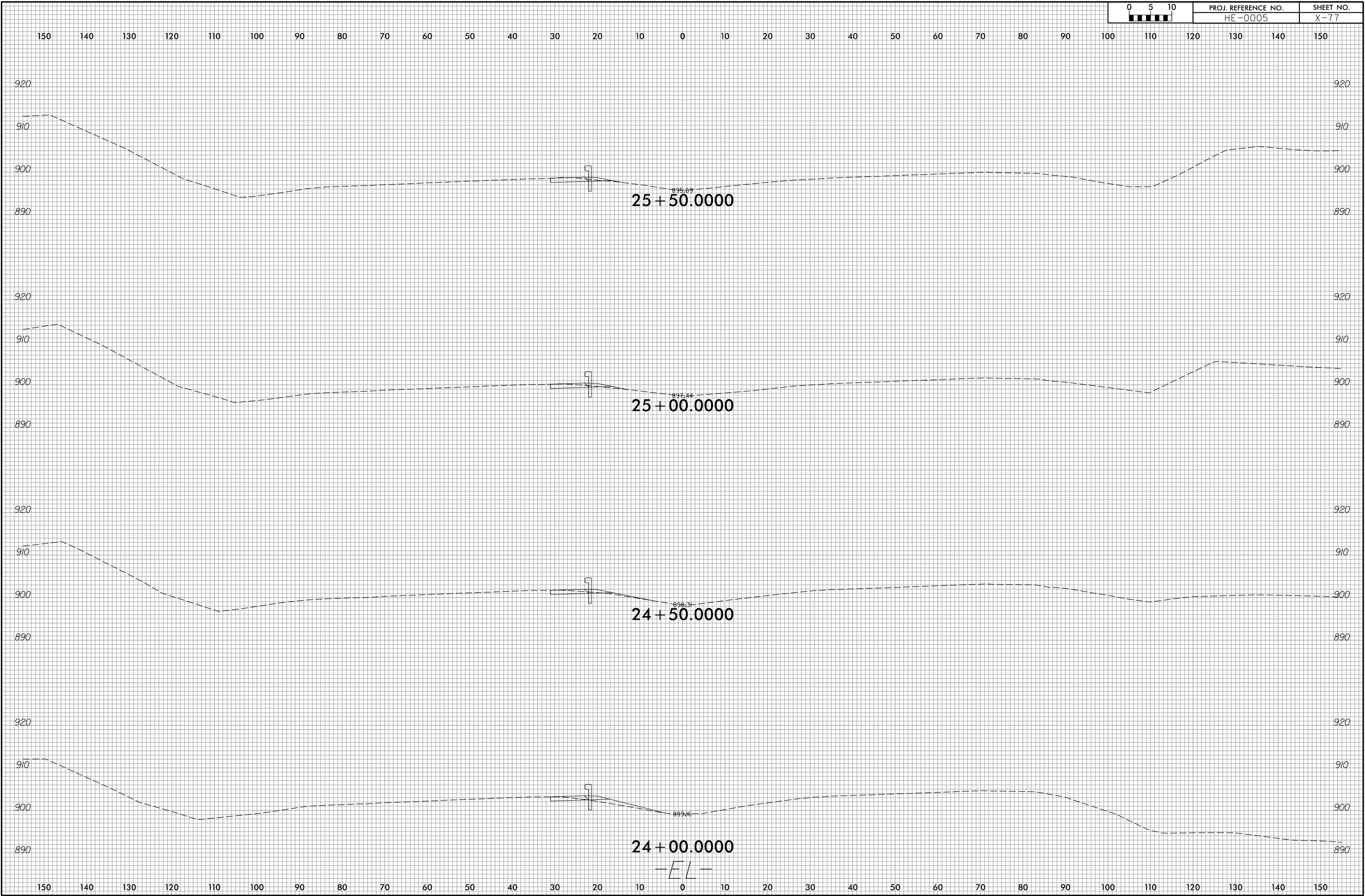


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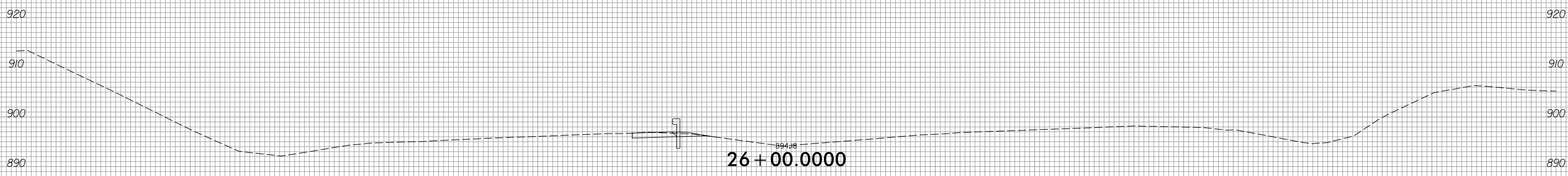
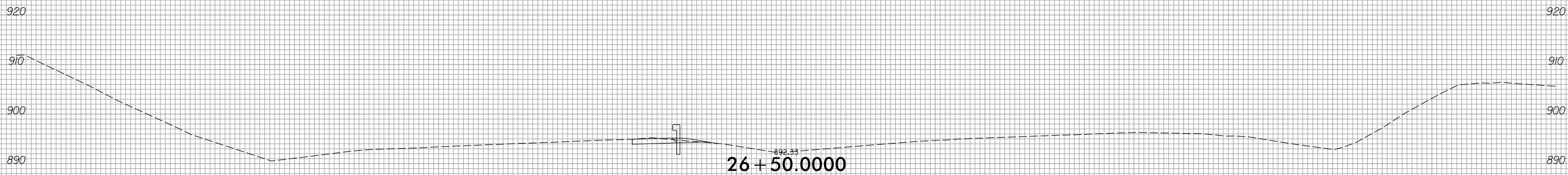
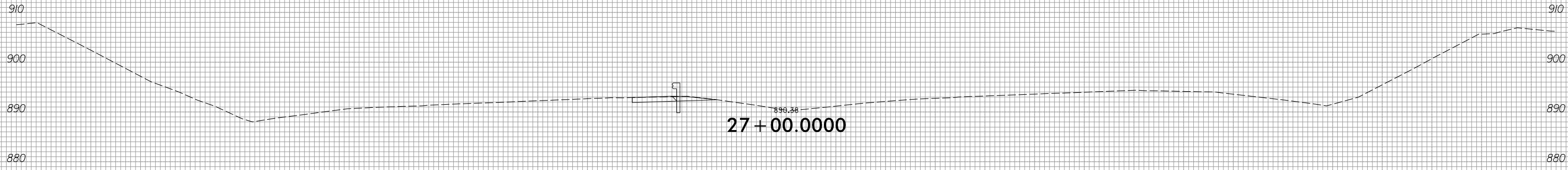
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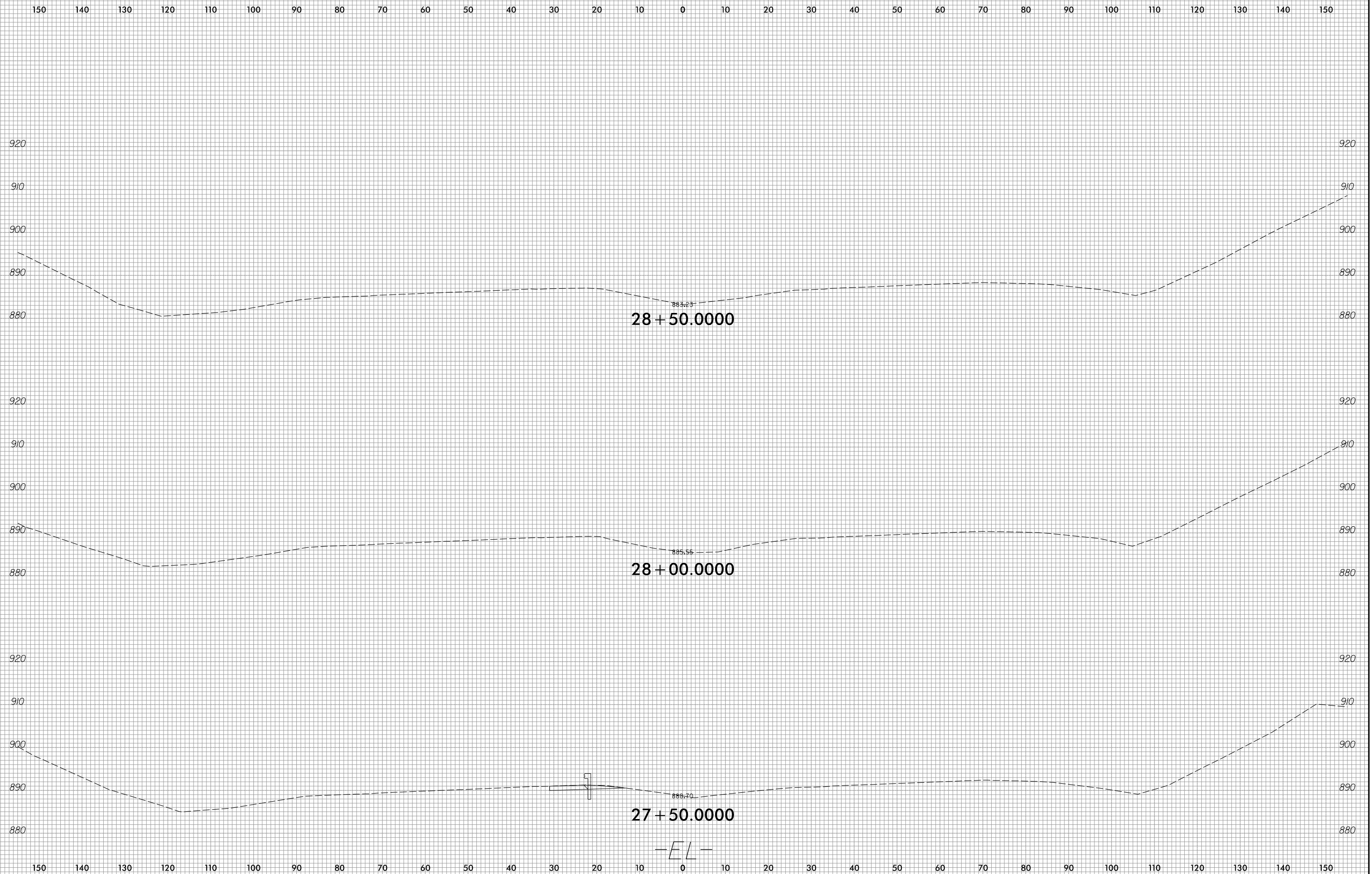


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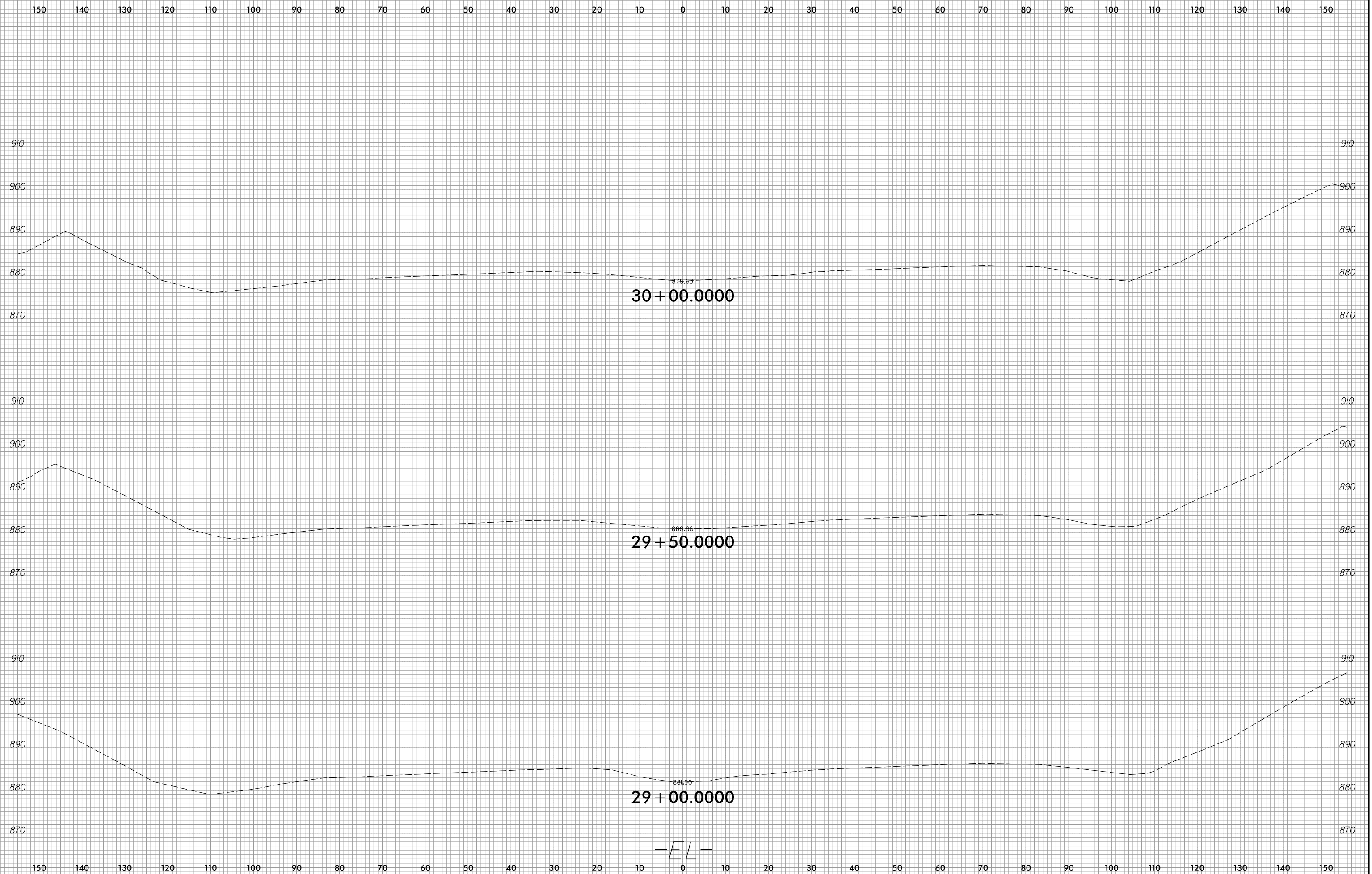


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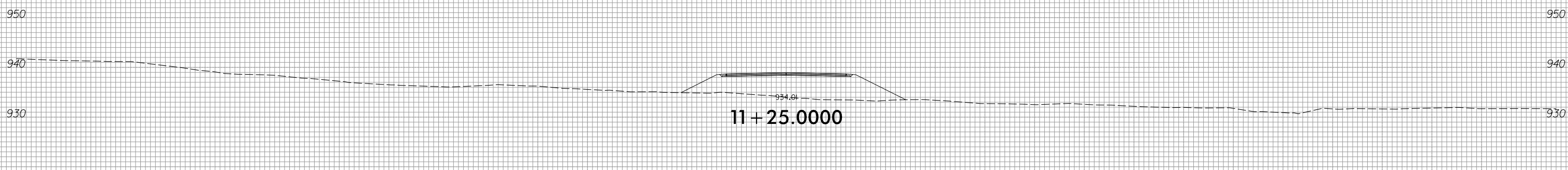
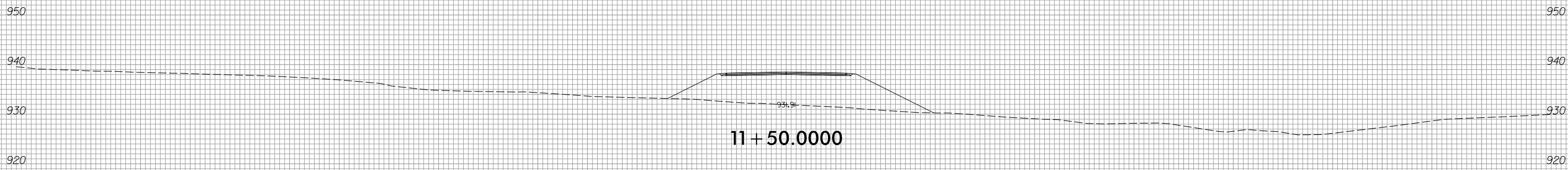
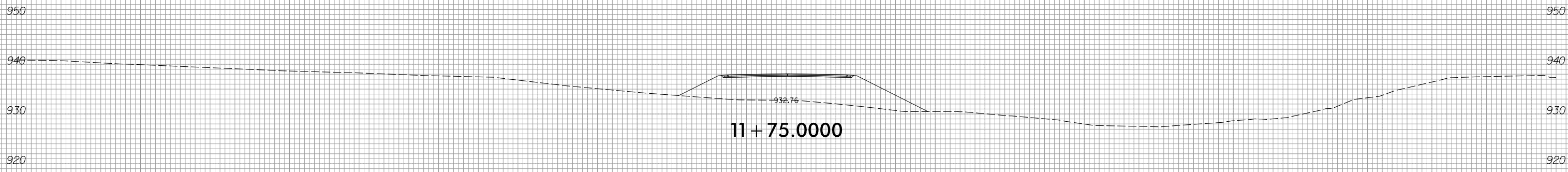
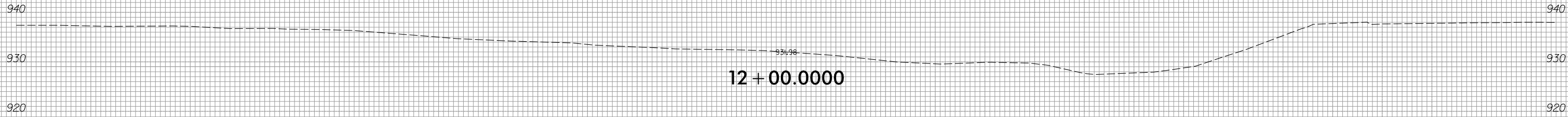
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-DRI-