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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
W-5516	X-1A

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Undercut	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	
L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	Y1	(cu. yd.)	(cu. yd.)	
15+50.00000	0	0	42+00.00000	147	9	68+50.00000	4424	0	0	92+50.00000	733	130	119+00.00000	80	11	11+40.00000	0	0	
16+00.00000	18	0				69+00.00000	6575	0	0	93+00.00000	1754	0	119+50.00000	118	1	11+68.97000	4	0	
16+50.00000	19	0	Station	Uncl. Exc.	Embt	69+50.00000	6727	0	0	93+50.00000	2822	0	120+00.00000	117	1	12+00.00000	9	0	
17+00.00000	23	0				70+00.00000	6128	0	0	94+00.00000	3406	0				12+50.00000	14	0	
17+50.00000	18	0	L	(cu. yd.)	(cu. yd.)	70+50.00000	5156	0	0	94+50.00000	3479	0	Station	Uncl. Exc.	Embt	Undercut	13+00.00000	16	0
18+00.00000	30	0	42+00.00000	0	0	71+00.00000	3830	0	0	95+00.00000	3049	0					13+50.00000	22	0
18+50.00000	77	0	42+50.00000	157	88	71+50.00000	2909	0	0	95+50.00000	2336	0	L	(cu. yd.)	(cu. yd.)	(cu. yd.)	13+80.20993	13	12
19+00.00000	173	0	43+00.00000	167	289	72+00.00000	2637	0	0	96+00.00000	1633	0	120+00.00000	0	0	0	14+44.45000	30	49
19+50.00000	253	0	43+50.00000	184	491	72+50.00000	2567	0	0	96+50.00000	1389	0	120+50.00000	155	0	0			
20+00.00000	209	0	44+00.00000	212	444	73+00.00000	2581	0	0	97+00.00000	1567	0	121+00.00000	171	0	0	Station	Uncl. Exc.	Embt
20+50.00000	180	0	44+50.00000	208	183	73+50.00000	2899	0	0	97+50.00000	1742	0	121+50.00000	144	3	0	Y1	(cu. yd.)	(cu. yd.)
21+00.00000	268	0	45+00.00000	183	19	74+00.00000	3552	50	50	98+00.00000	1690	0	122+00.00000	136	3	0			
21+50.00000	252	9	45+50.00000	218	0	74+50.00000	4260	0	0	98+50.00000	1429	0	122+50.00000	121	10	0			
22+00.00000	146	123	46+00.00000	255	0	75+00.00000	4872	0	0	99+00.00000	734	134	123+00.00000	79	36	0	14+67.40000	0	0
22+50.00000	103	483	46+50.00000	268	0	75+50.00000	5657	0	0	99+50.00000	243	263	123+50.00000	54	100	0	15+47.63727	6	24
23+00.00000	59	1011	47+00.00000	241	0	76+00.00000	6515	0	0	100+00.00000	1040	128	124+00.00000	49	203	0	16+00.00000	4	7
23+50.00000	43	1221	47+50.00000	171	0	76+50.00000	6897	0	0	100+50.00000	2128	0	124+50.00000	47	228	0	16+50.00000	8	1
24+00.00000	29	745	48+00.00000	122	0	77+00.00000	6295	0	0	101+00.00000	2670	0	125+00.00000	38	221	0	16+89.31284	8	0
24+50.00000	201	166	48+50.00000	72	8	77+50.00000	4740	0	0	101+50.00000	3039	0	125+50.00000	18	316	0	17+15.00000	2	0
25+00.00000	865	0	49+00.00000	23	53	78+00.00000	3528	0	0	102+00.00000	3383	0	126+00.00000	17	276	0			
25+50.00000	1380	0	49+50.00000	5	80	78+50.00000	3674	0	0	102+50.00000	3990	0	126+50.00000	53	116	0	Station	Uncl. Exc.	Embt
26+00.00000	1219	0	50+00.00000	8	64	79+00.00000	3377	0	0	103+00.00000	4876	0	127+00.00000	113	46	0	Y2	(cu. yd.)	(cu. yd.)
26+50.00000	705	0	50+50.00000	9	70	79+50.00000	2274	0	0	103+50.00000	5727	0	127+50.00000	183	12	0			
27+00.00000	381	0	51+00.00000	9	45	80+00.00000	3092	0	0	104+00.00000	6441	0	128+00.00000	244	0	0	12+90.00000	0	0
27+50.00000	555	0	51+50.00000	20	58	80+50.00000	5079	0	0	104+50.00000	6441	0	128+50.00000	270	0	0	13+23.00000	21	0
28+00.00000	1360	0	52+00.00000	30	197	81+00.00000	5522	0	0	105+00.00000	5547	0	129+00.00000	200	0	0	13+50.00000	46	0
28+50.00000	1946	0	52+50.00000	63	367	81+50.00000	4343	0	0	105+50.00000	4268	0	129+50.00000	76	110	0	14+00.00000	155	0
29+00.00000	1479	0	53+00.00000	85	453	82+00.00000	3011	0	0	106+00.00000	2909	0	130+00.00000	30	147	0	14+50.00000	293	0
29+50.00000	656	0	53+50.00000	74	534	82+50.00000	1982	0	0	106+50.00000	1578	0	130+50.00000	89	37	0	15+00.00000	437	0
30+00.00000	145	292	54+00.00000	60	706	83+00.00000	808	2	0	107+00.00000	483	158	131+00.00000	255	1	0	15+18.97514	192	0
30+50.00000	7	1497	54+50.00000	39	1093	83+50.00000	142	98	0	107+50.00000	38	619	131+50.00000	546	0	0	15+74.88000	875	0
31+00.00000	67	3406	55+00.00000	52	1651	84+00.00000	438	96	0	108+00.00000	83	1005	132+00.00000	888	0	0			
31+50.00000	95	4638	55+50.00000	54	2441	84+50.00000	954	0	0	108+50.00000	83	1227	132+50.00000	818	0	0	Station	Uncl. Exc.	Embt
32+00.00000	28	5228	56+00.00000	32	3607	85+00.00000	858	0	0	109+00.00000	43	1098	133+00.00000	713	0	0	Y2	(cu. yd.)	(cu. yd.)
32+50.00000	0	4810	56+50.00000	41	4900	85+50.00000	357	79	0	109+50.00000	297	427	133+50.00000	826	0	0			
33+00.00000	0	3467	57+00.00003	27	6365	86+00.00000	60	552	0	110+00.00000	936	13	134+00.00000	768	0	0	15+96.96000	0	0
33+50.00000	0	2332	57+45.400000	0	6914	86+50.00000	0	1302	0	110+50.00000	1246	0	134+50.00000	622	158	158	16+52.86058	58	6
34+00.00000	0	1232				87+00.00000	0	1752	0	111+00.00000	1170	0	135+00.00000	415	158	158	17+00.00000	23	9
34+50.00000	62	360	Station	Uncl. Exc.	Embt	87+50.00000	0	1480	0	111+50.00000	1240	0	135+50.00000	263	158	158	17+50.00000	12	9
35+00.00000	306	12				88+00.00000	0	912	0	112+00.00000	1512	0	136+00.00000	198	158	158	17+79.62966	6	1
35+50.00000	366	0	L	(cu. yd.)	(cu. yd.)	88+50.00000	0	636	0	112+50.00000	1976	0	136+50.00000	175	157	157	18+10.00000	3	0
36+00.00000	122	185	62+75.40000	0	0	89+00.00000	0	907	0	113+00.00000	2435	0	137+00.00000	163	162	157			
36+50.00000	0	954	63+00.00003	0	779	89+50.00000	0	2148	0	113+50.00000	2681	0	137+50.00000	180	151	146	Station	Uncl. Exc.	Embt
37+00.00000	0	2559	63+50.00000	779	718	90+00.00000	87	2207	0	114+00.00000	2775	0	138+00.00000	150	146	146	Y3	(cu. yd.)	(cu. yd.)
37+50.00000	0	4060	64+00.00000	1666	0					114+50.00000	2817	0	138+50.00000	57	157	156			
38+00.00000	0	3767	64+50.00000	1797	0	Station	Uncl. Exc.	Embt		115+00.00000	2711	0	139+00.00000	24	157	156	11+15.00000	0	0
38+50.00000	0	2511	65+00.00000	1869	0					115+50.00000	2511	0	139+50.00000	21	1	0	11+50.00000	13	0
39+00.00000	0	1433	65+50.00000	1985	0	L	(cu. yd.)	(cu. yd.)		116+00.00000	2343	0	140+00.00000	12	2	0	12+00.00000	33	0
39+50.00000	0	510	66+00.00000	2031	0					116+50.00000	2100	0	140+50.00000	18	2	0	12+50.00000	29	0
40+00.00000	37	90	66+50.00000	1995	0	90+00.00000	0	0		117+00.00000	1634	0	141+00.00000	27	1	0	13+00.00000	10	1
40+50.00000	70	0	67+00.00000	1973	0	90+50.00000	282	1147		117+50.00000	1066	0	141+50.00000	25	0	0	13+50.00000	13	2
41+00.00000	58	0	67+50.00000	2064	0	91+00.00000	373	906		118+00.00000	502	0	141+70.00000	10	0	0	14+00.00000	50	1
41+50.00000	95	0	68+00.00000	2446	0	92+00.00000	364	458		118+50.00000	129	11					14+50.00000	109	0

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810 810

800 800

790 790

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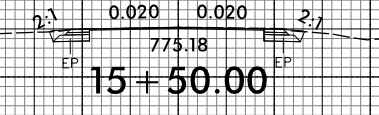
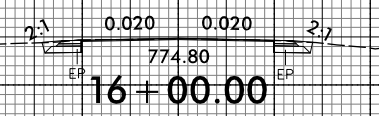
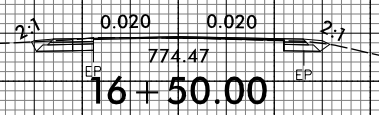
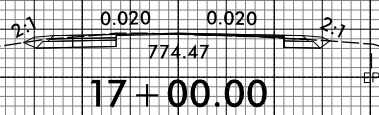
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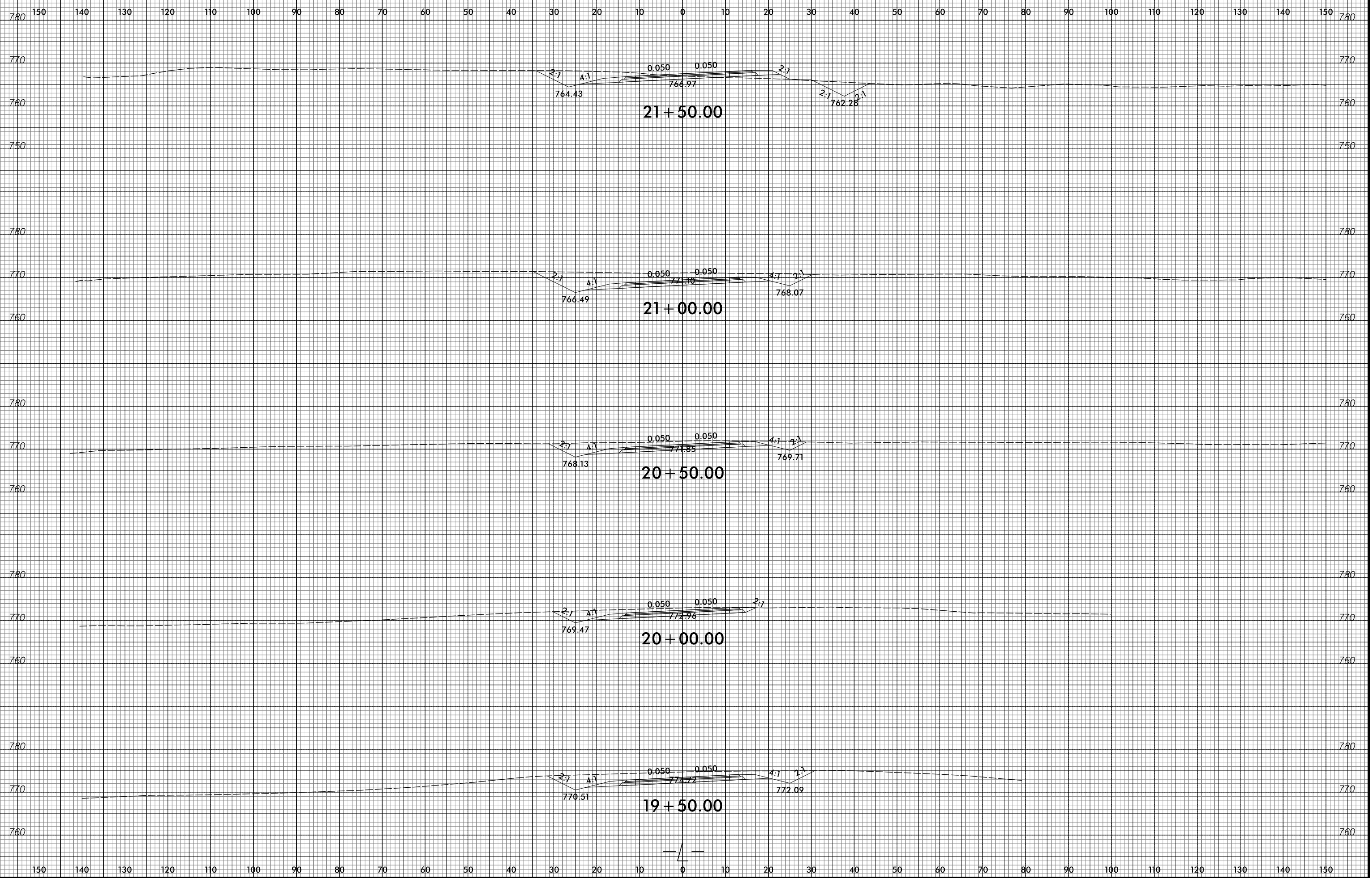
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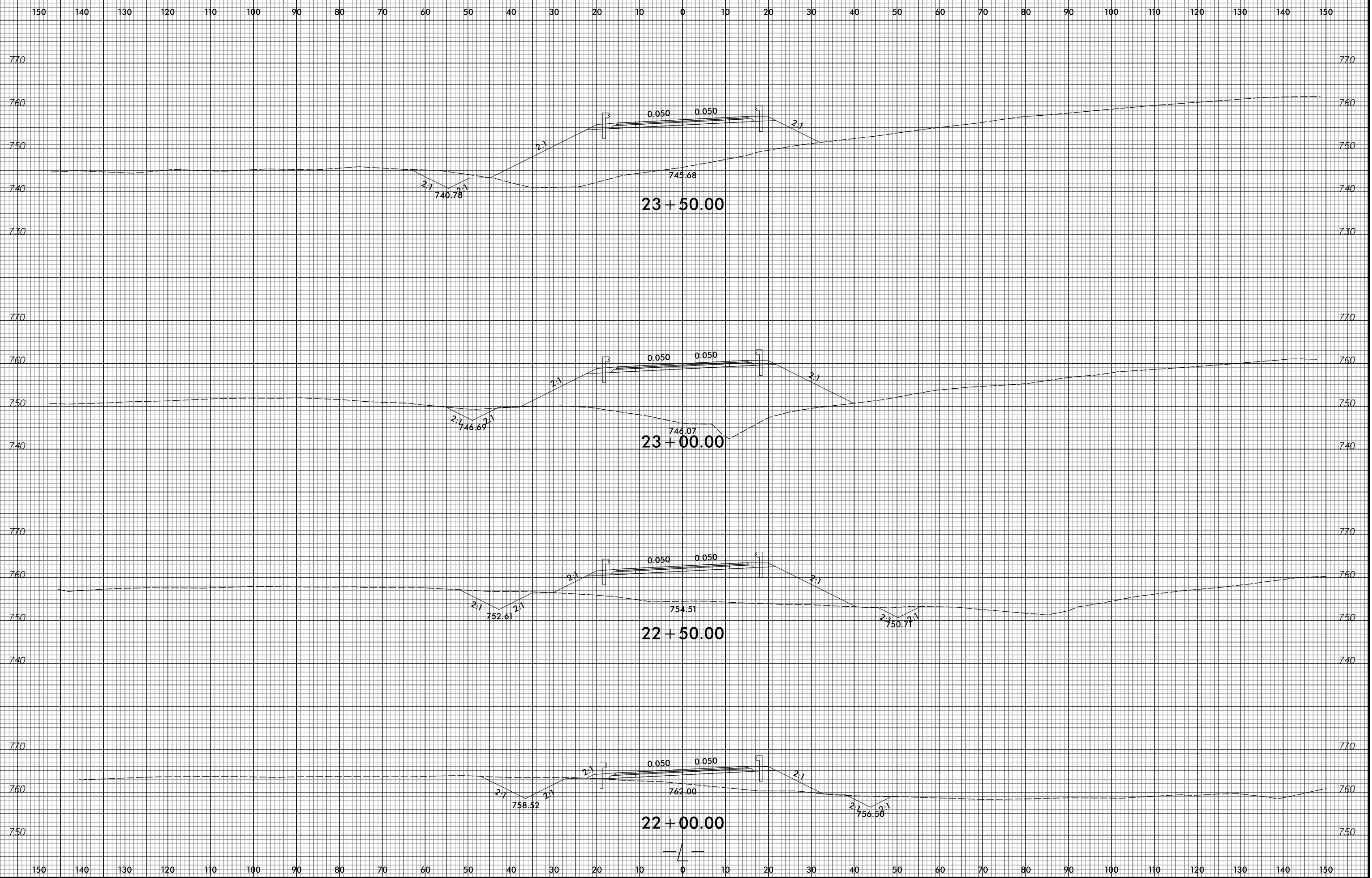
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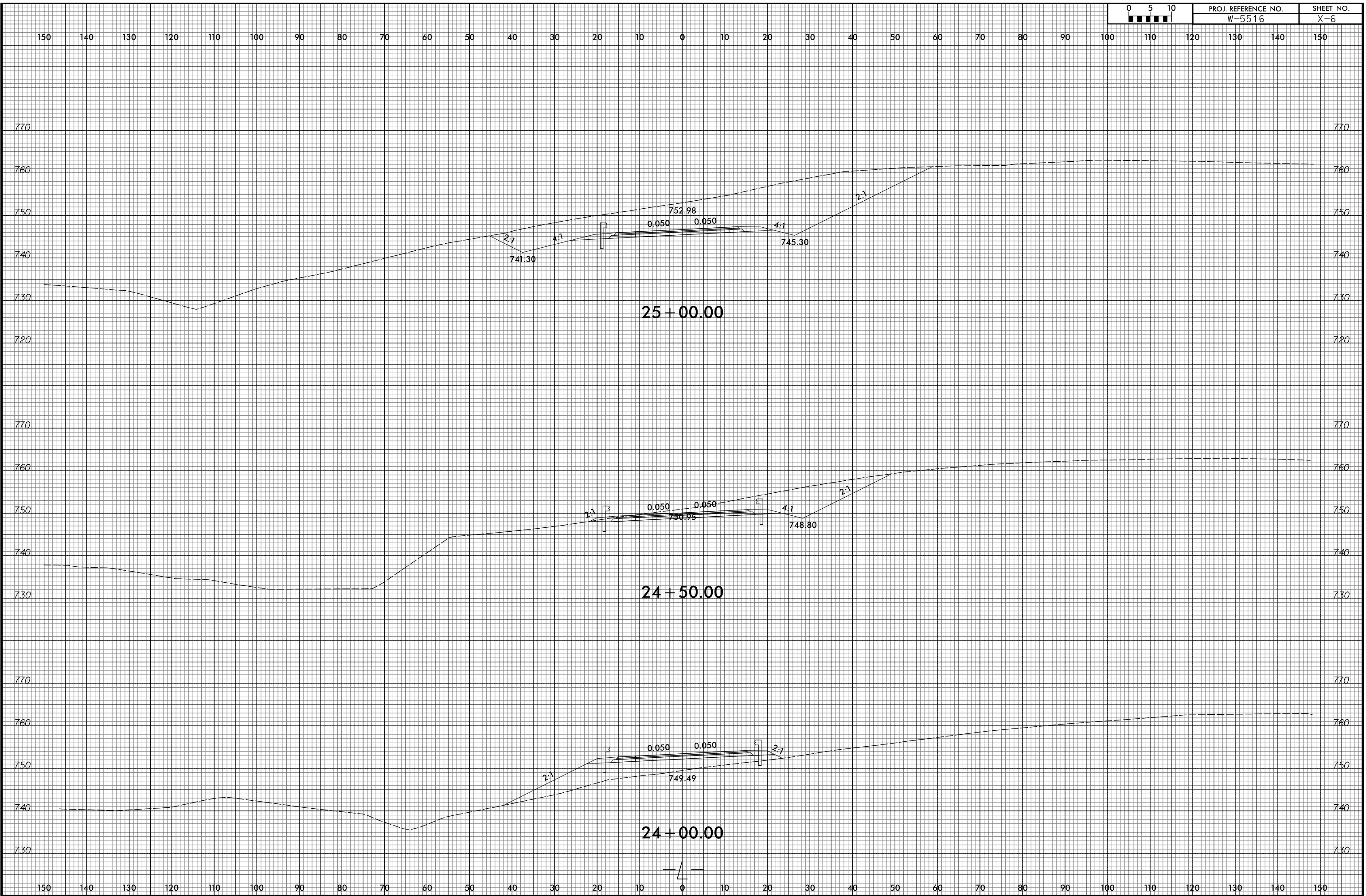
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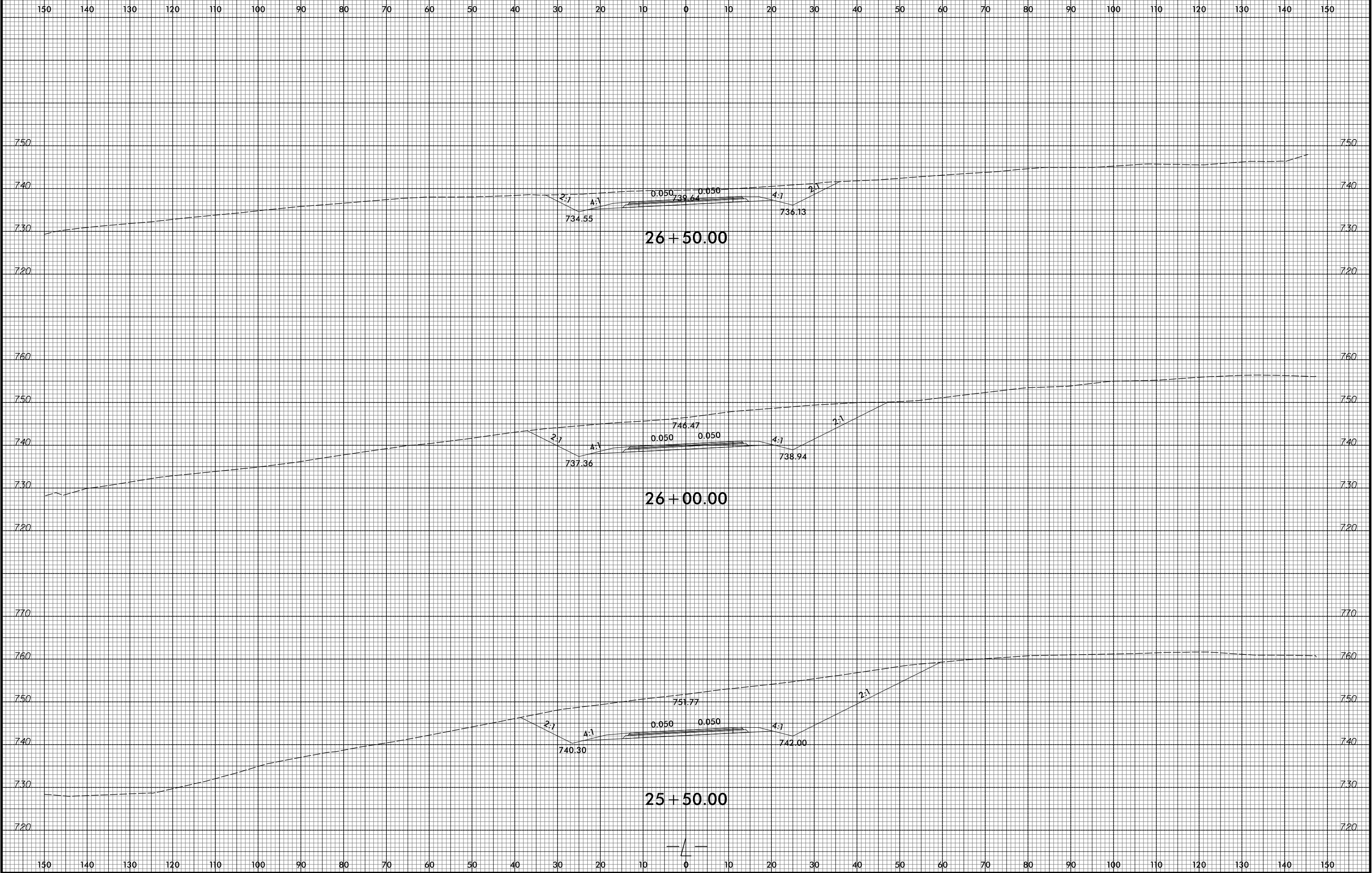


UNDERCUT EXCAVATION





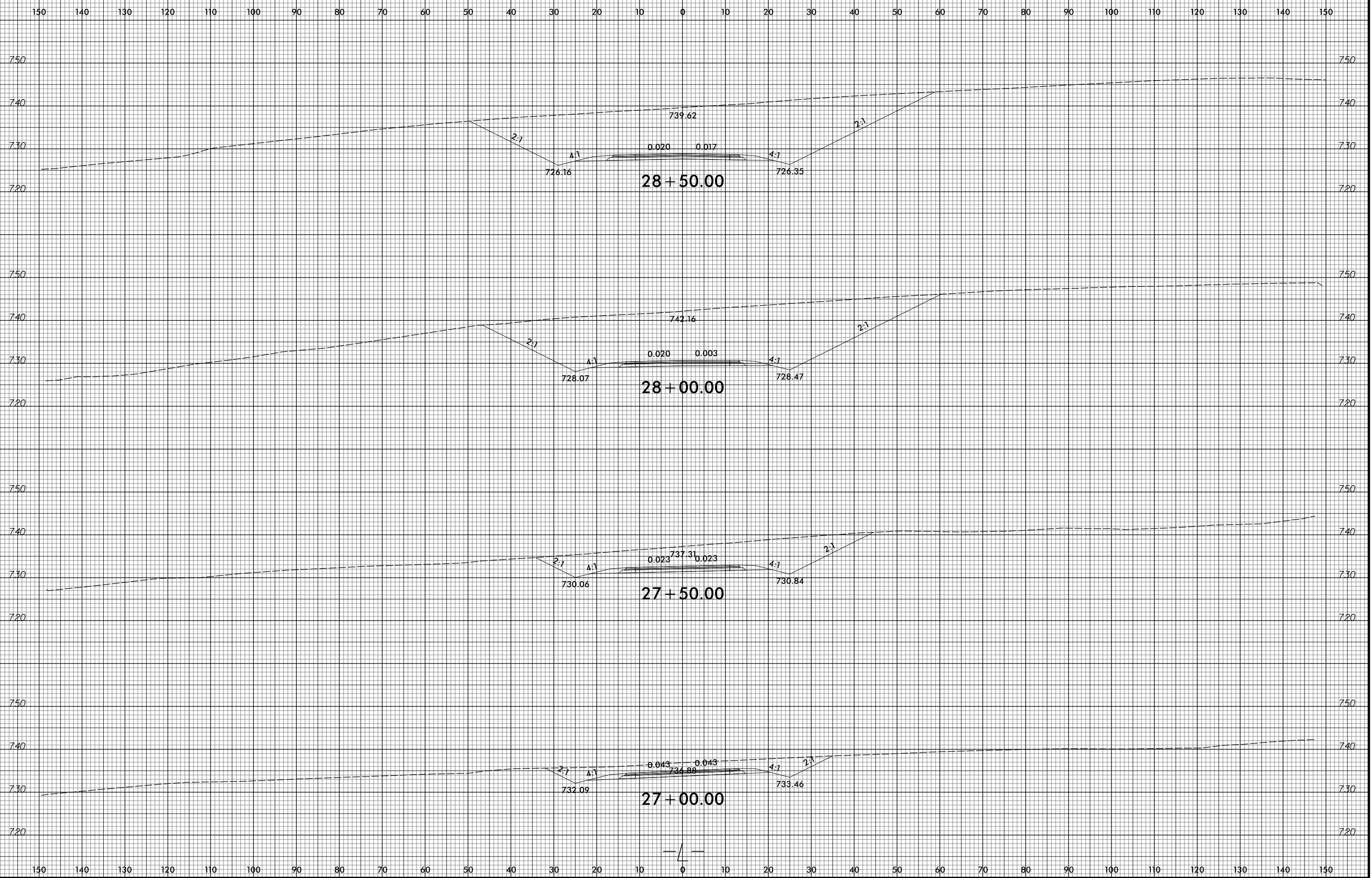




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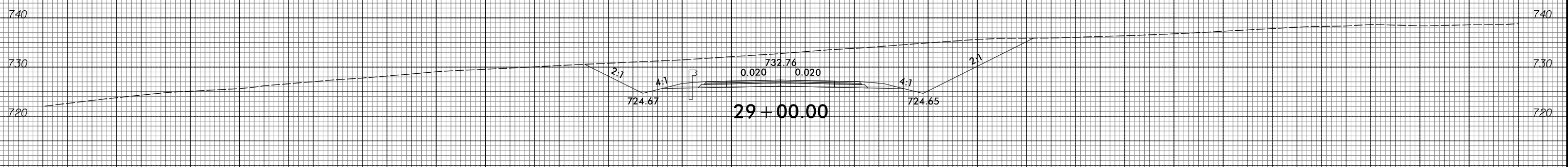
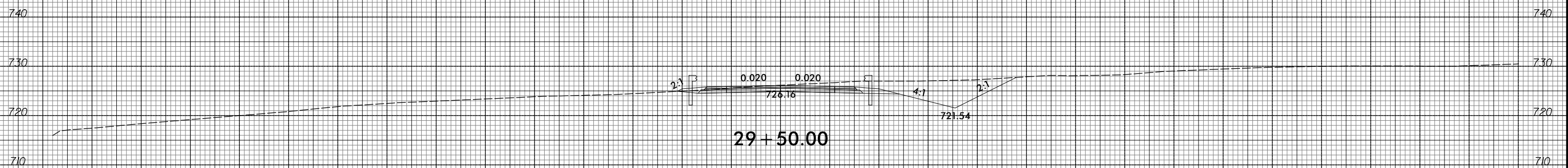
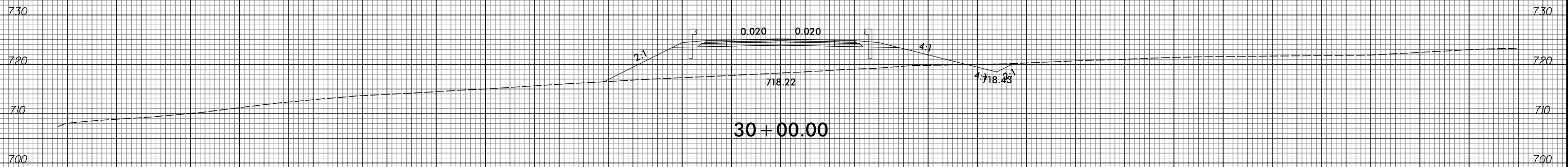
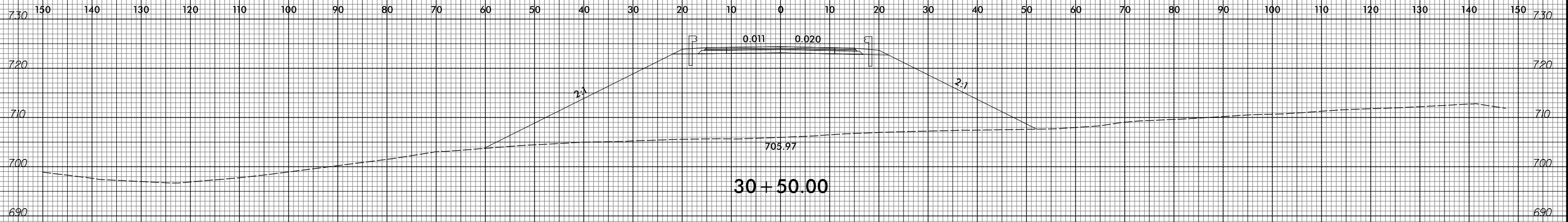
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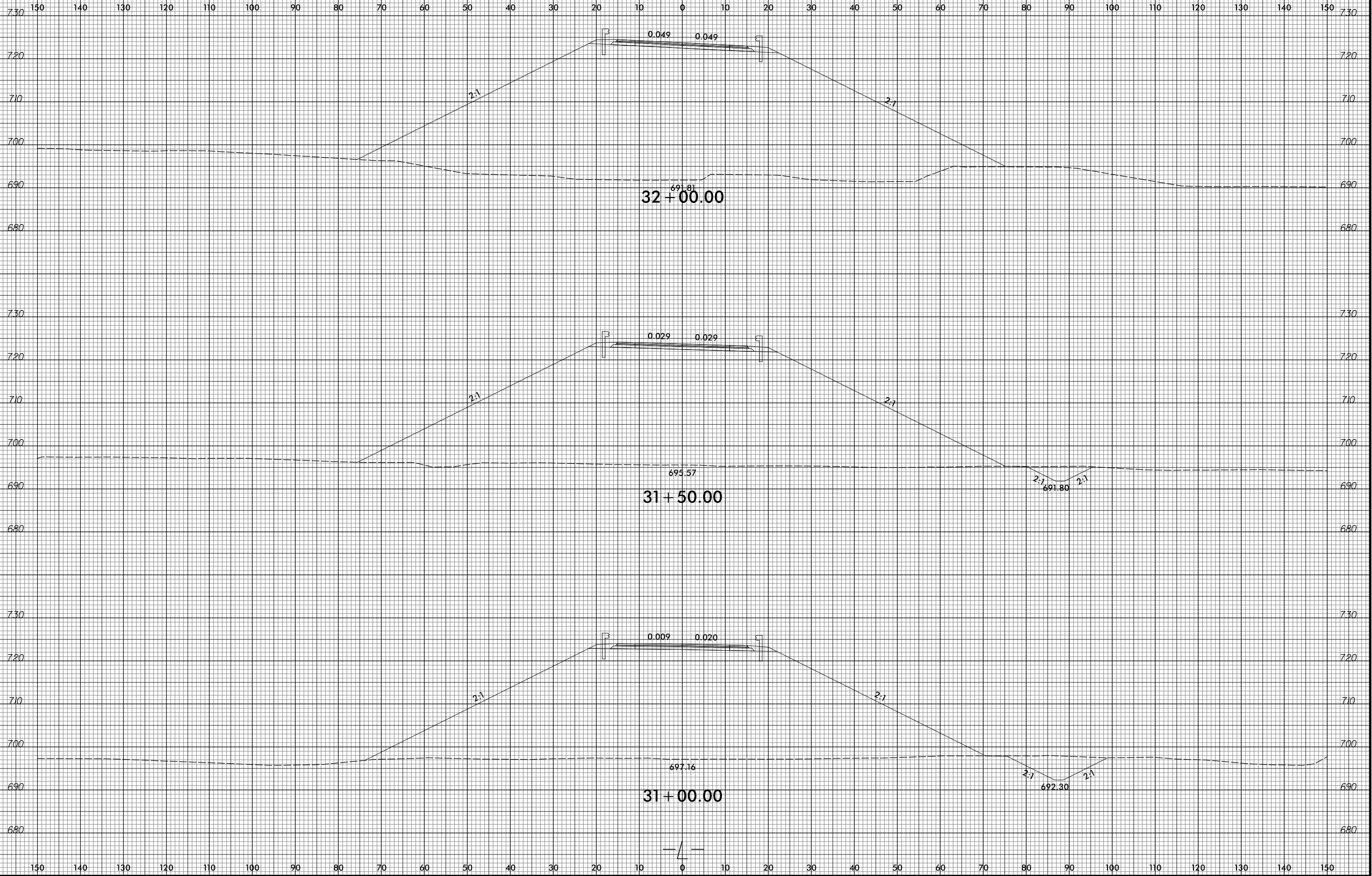
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W-5516

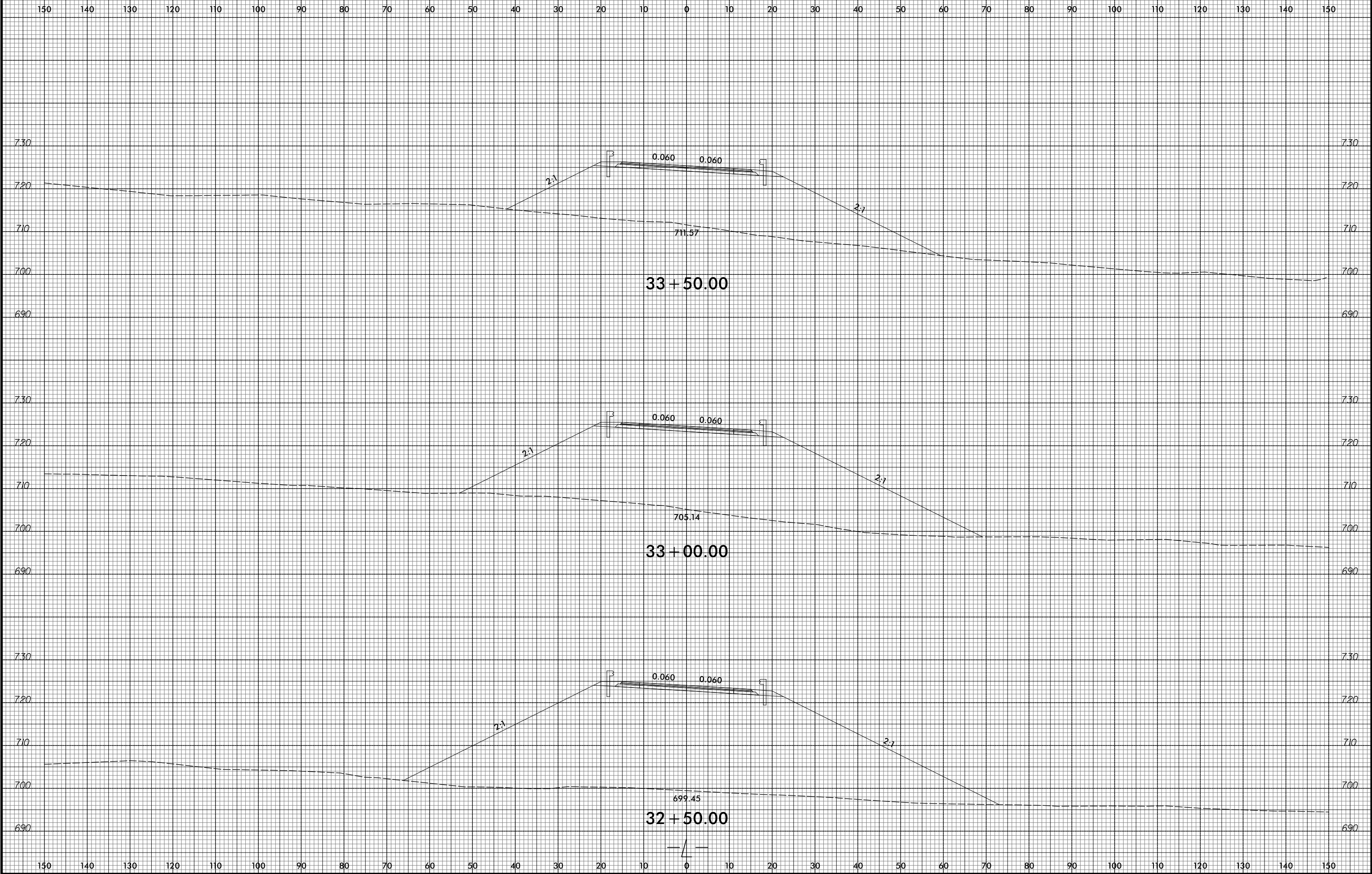
SHEET NO.
X-9

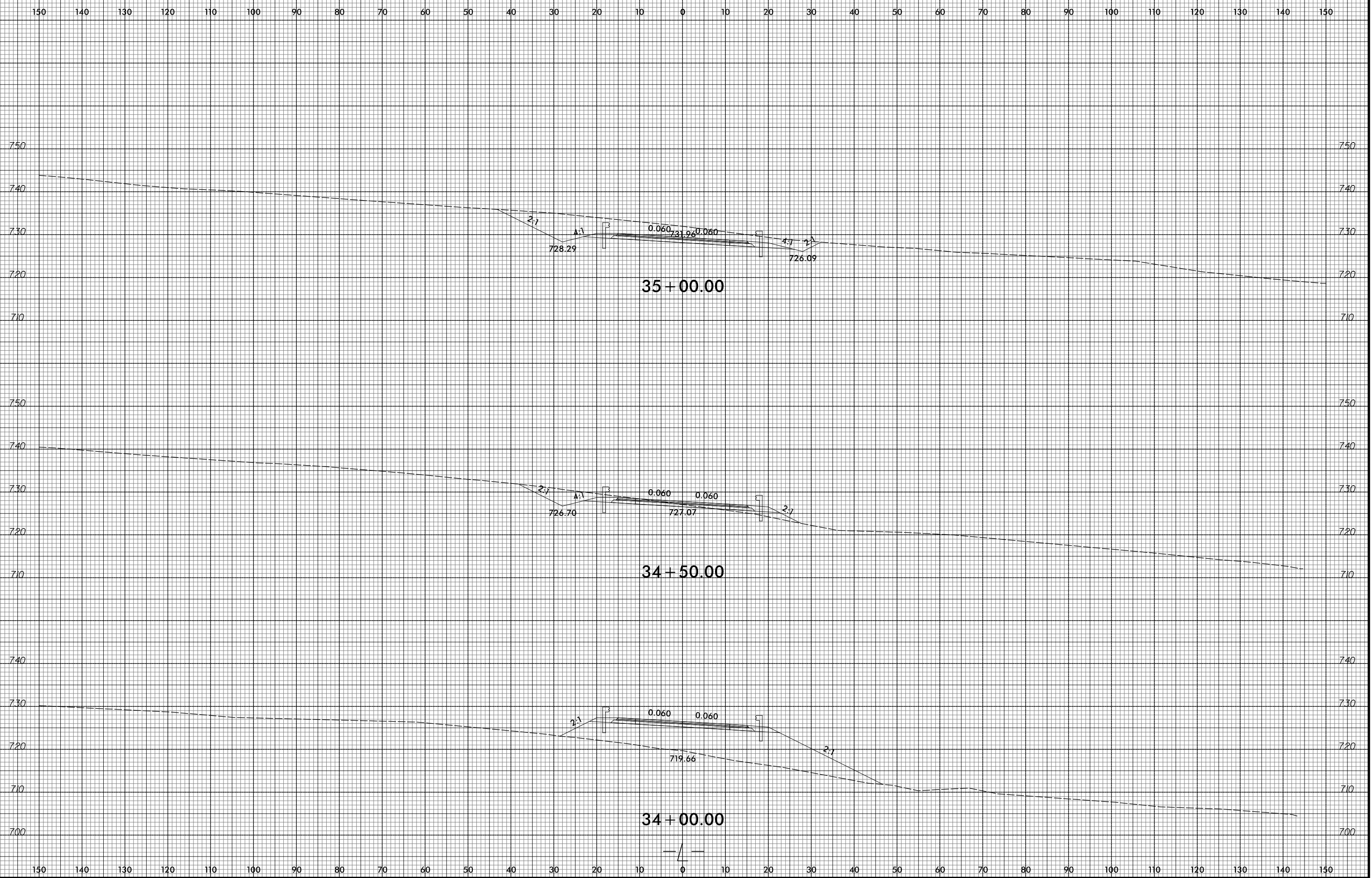


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ICA ENGINEERING, INC.

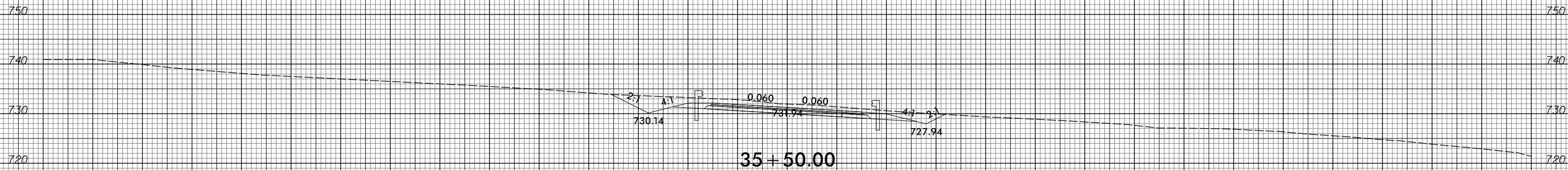
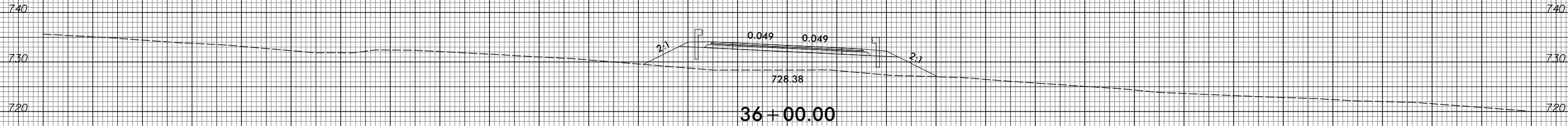
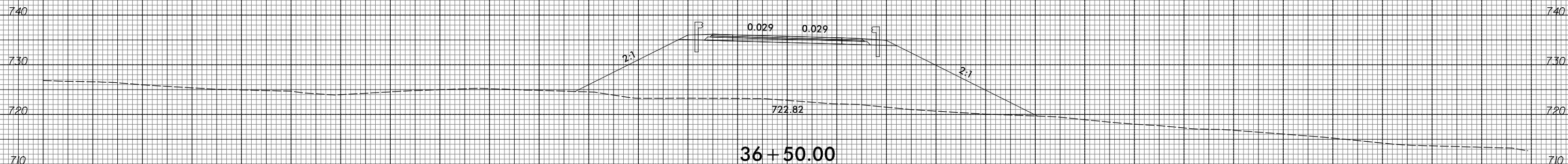
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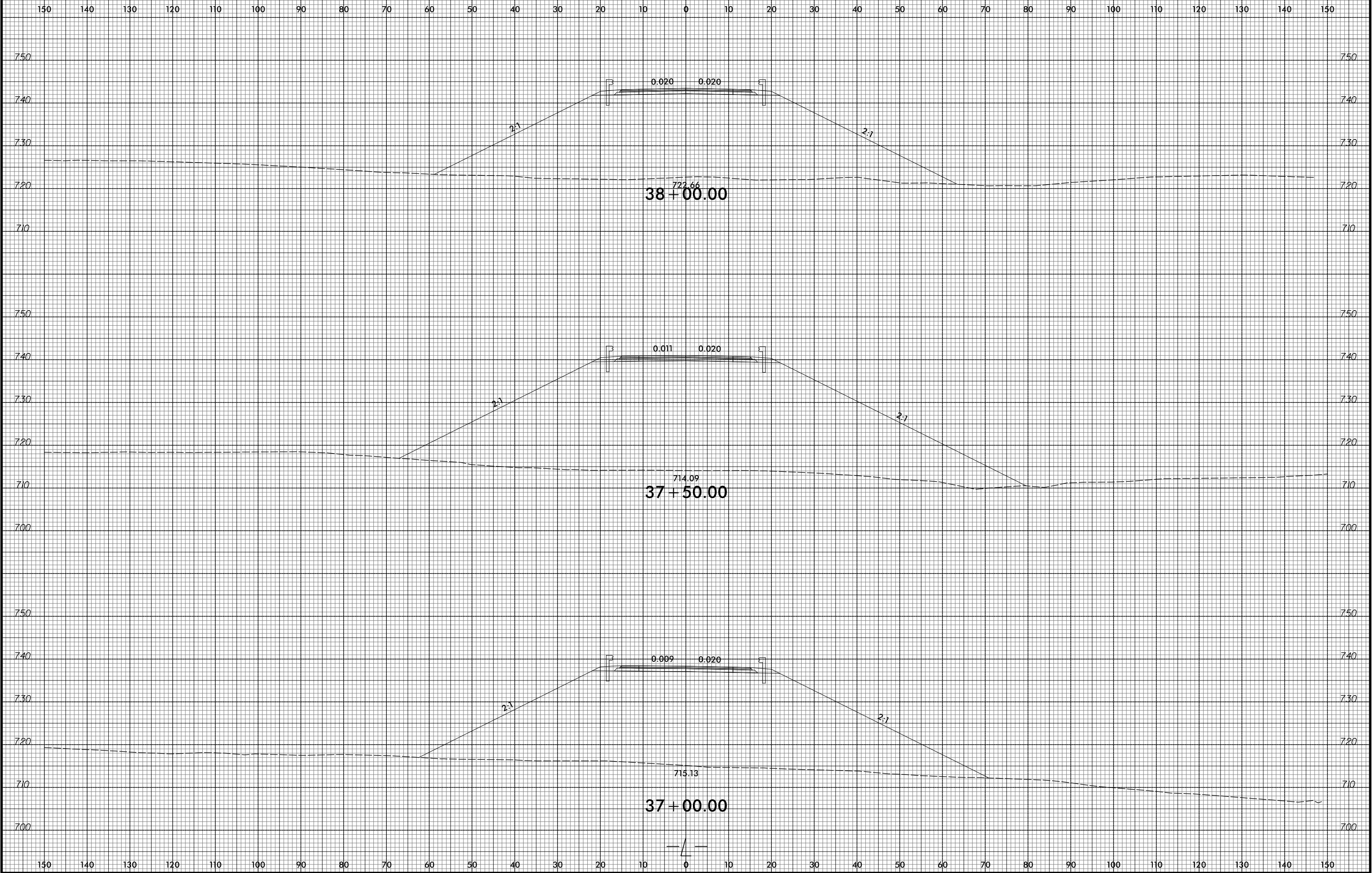




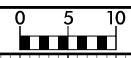


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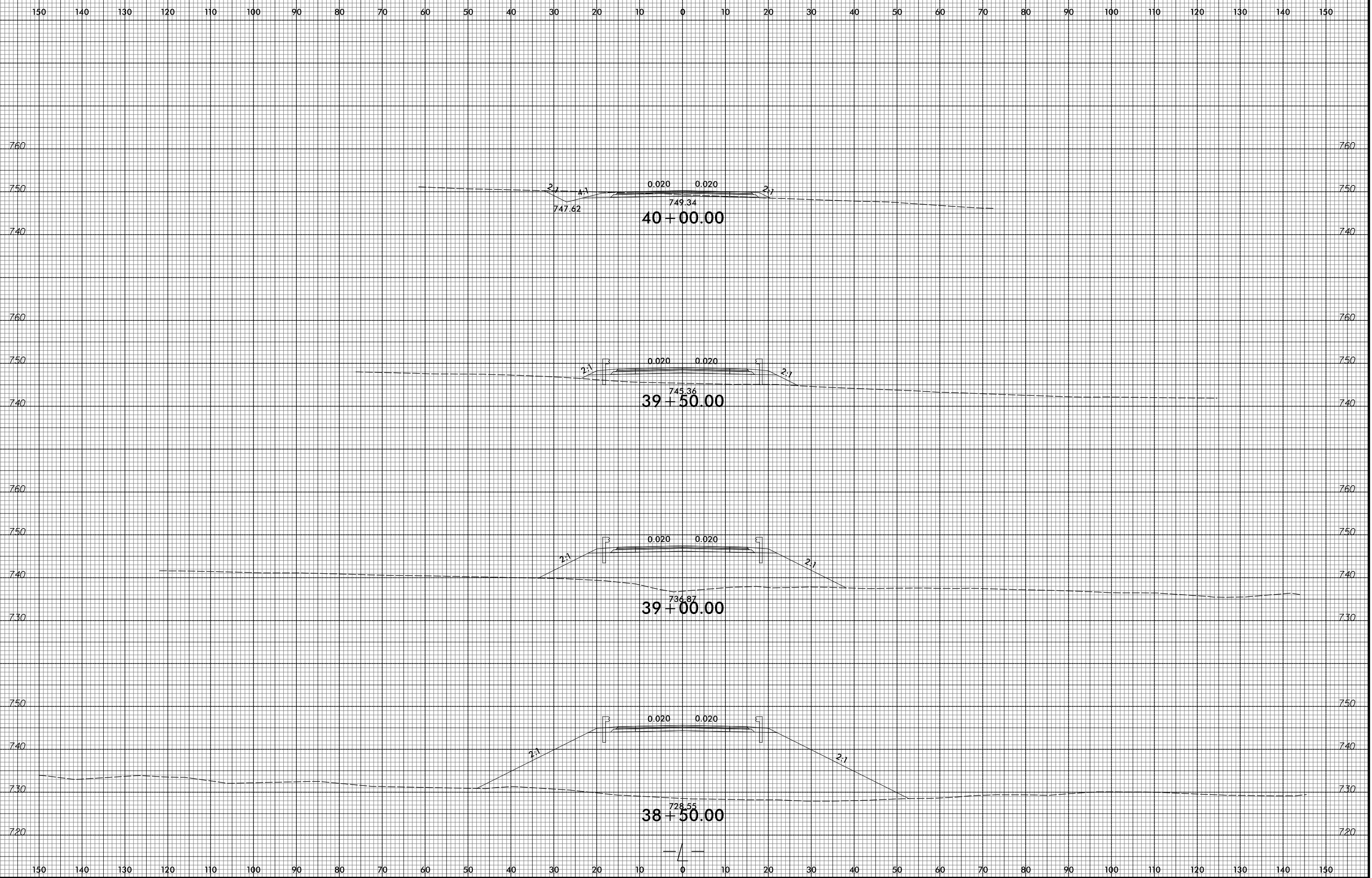




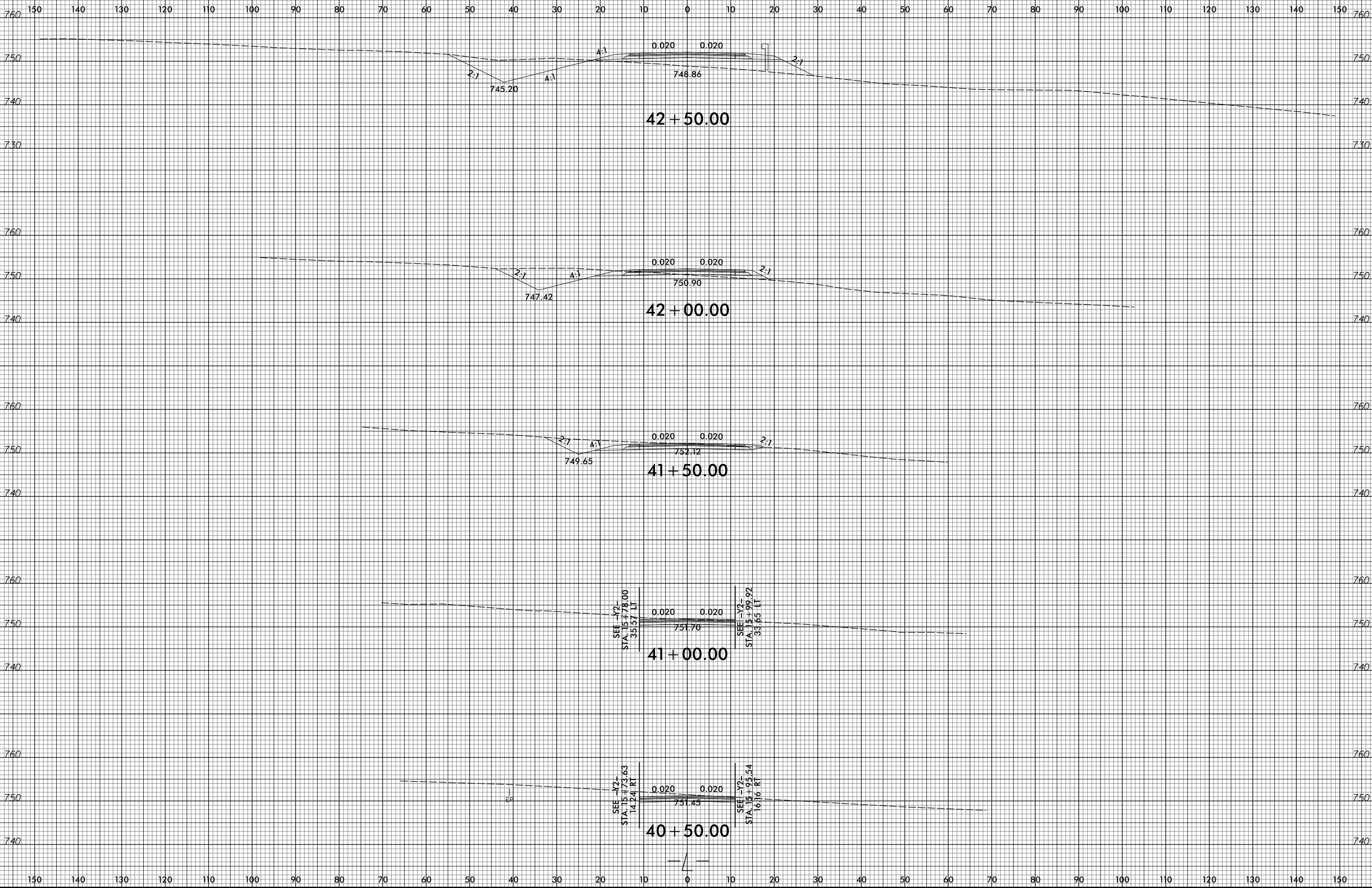
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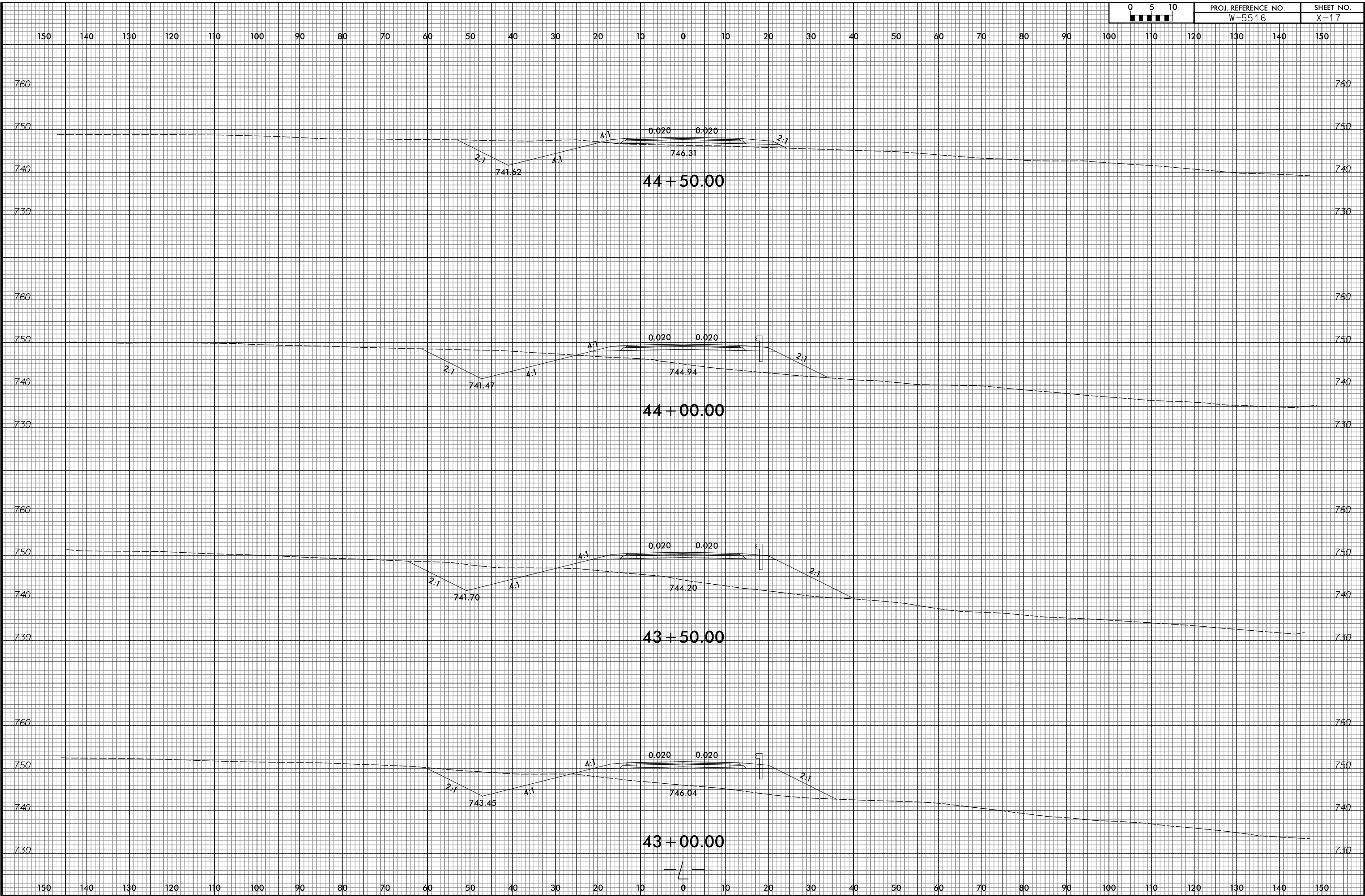


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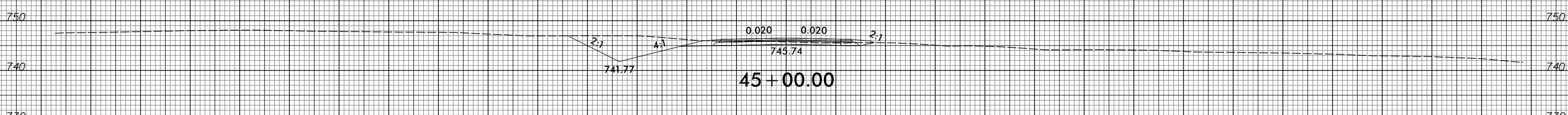
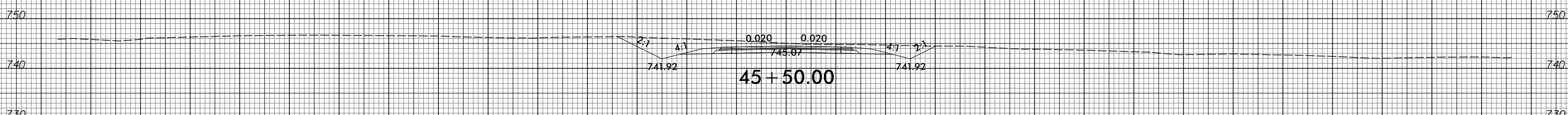
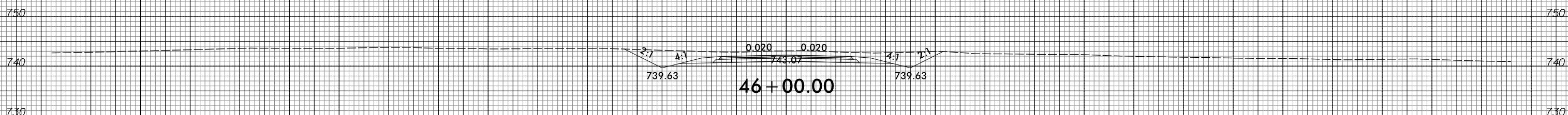
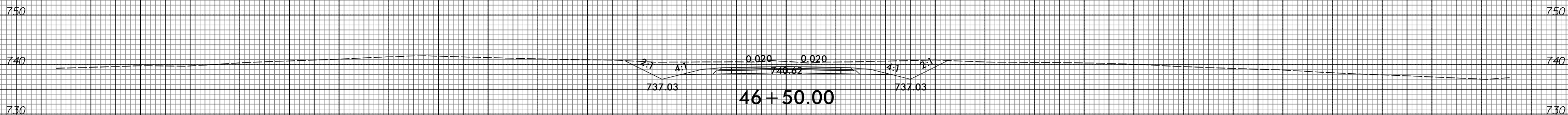
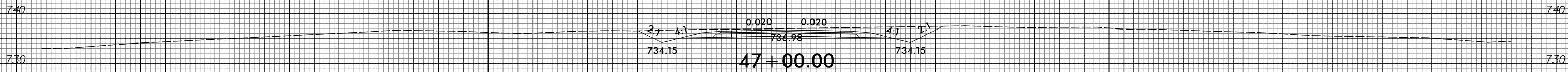


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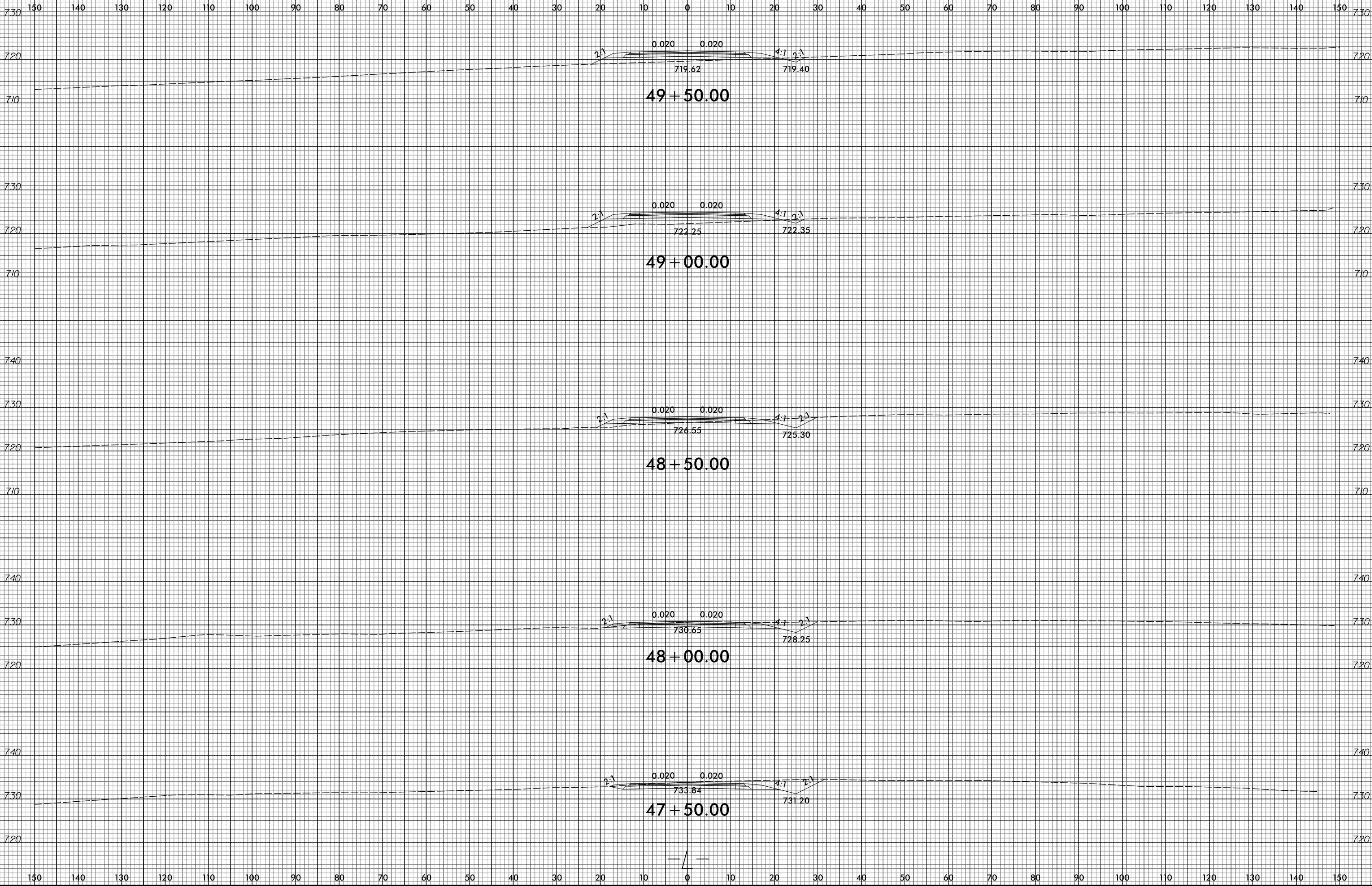


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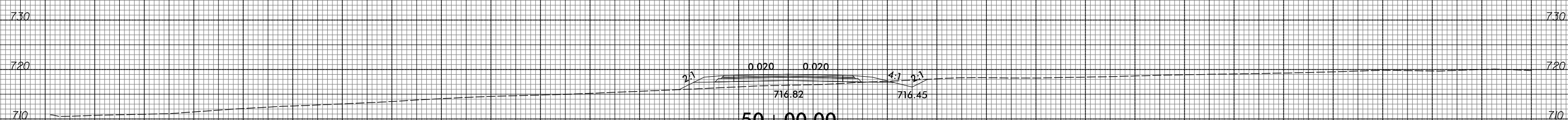
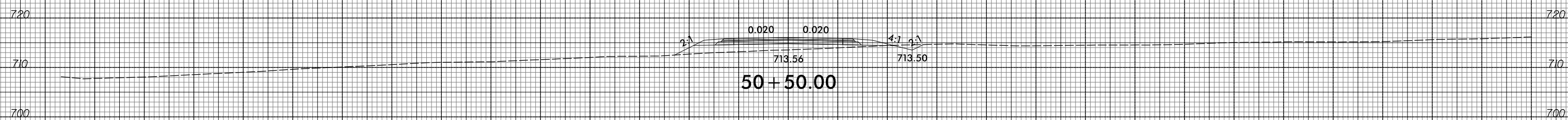
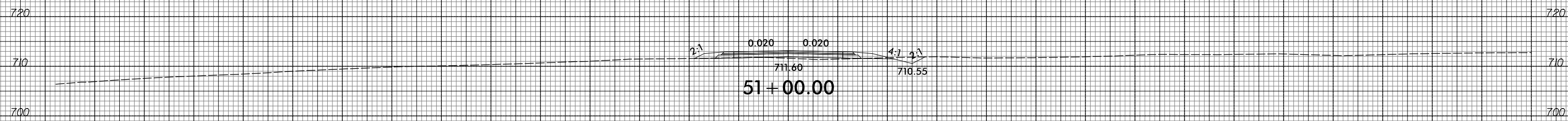
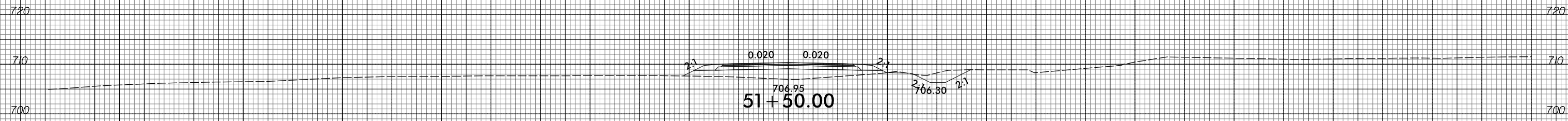


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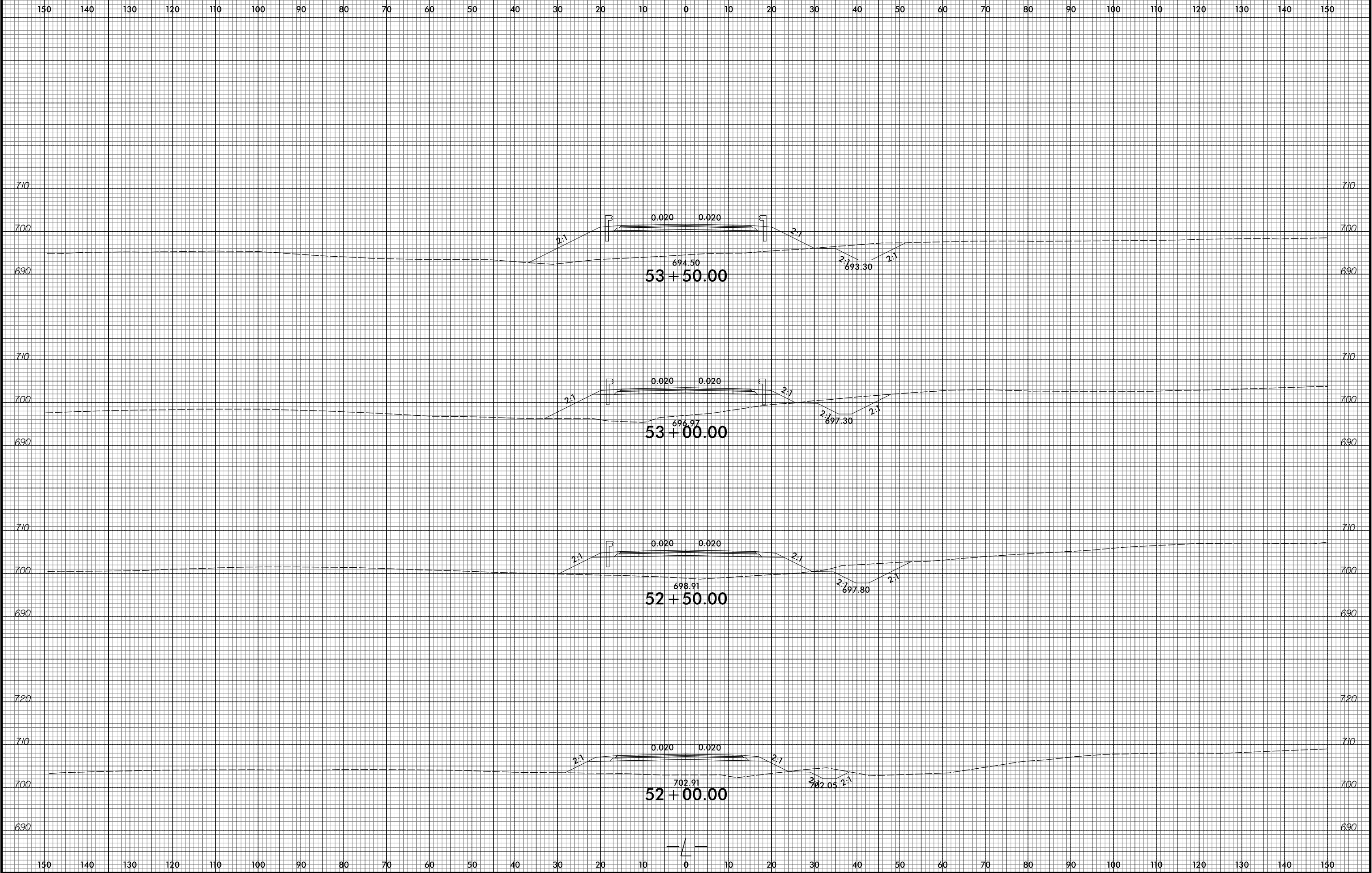
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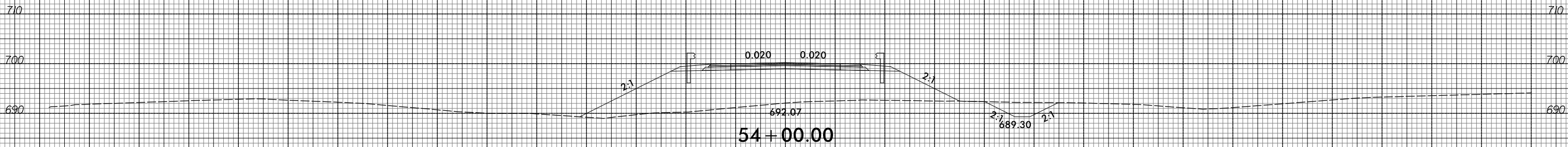
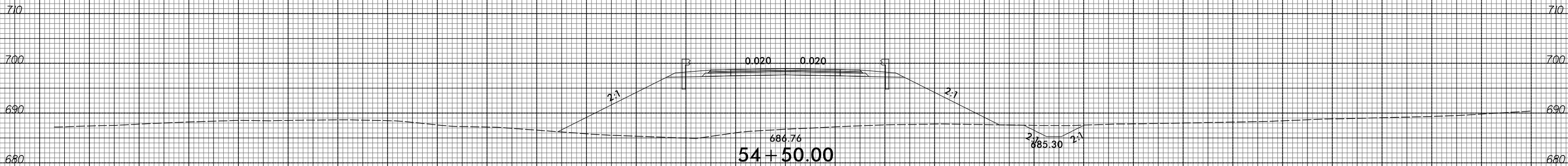
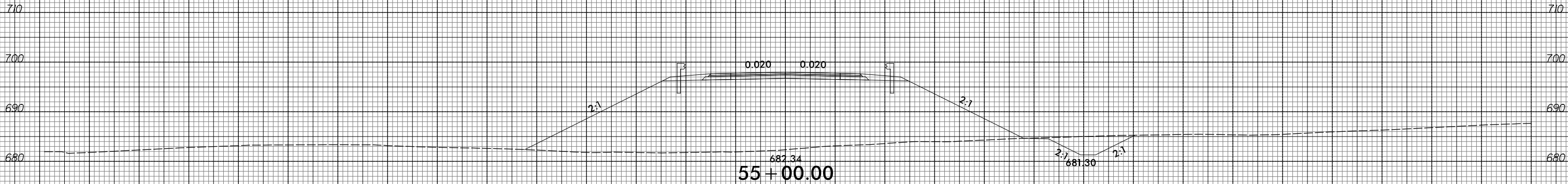
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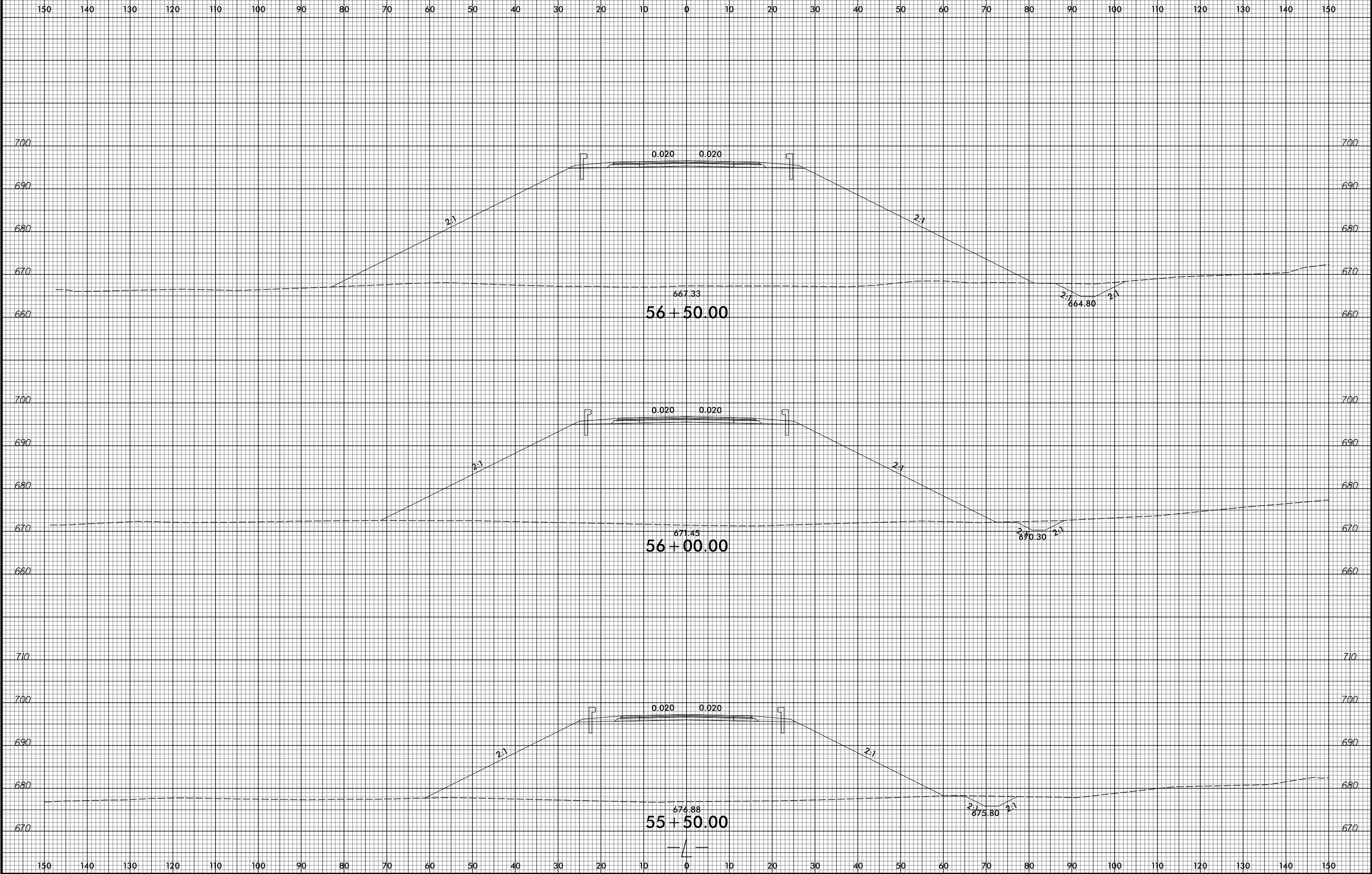


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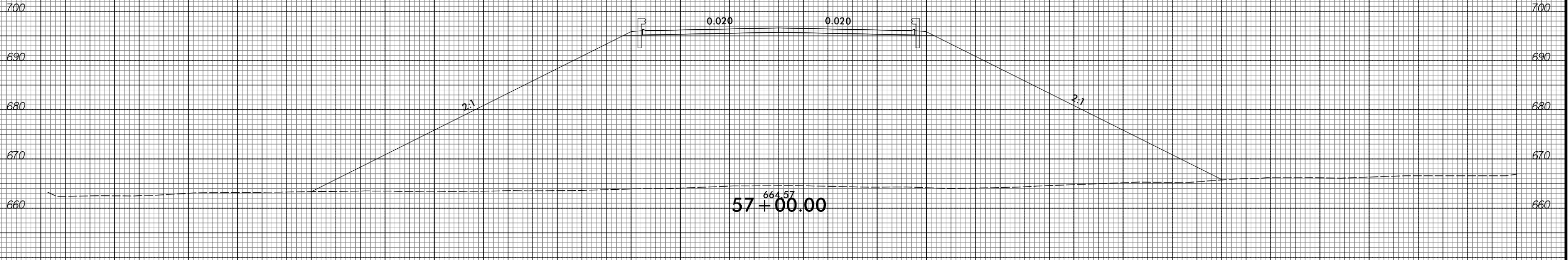
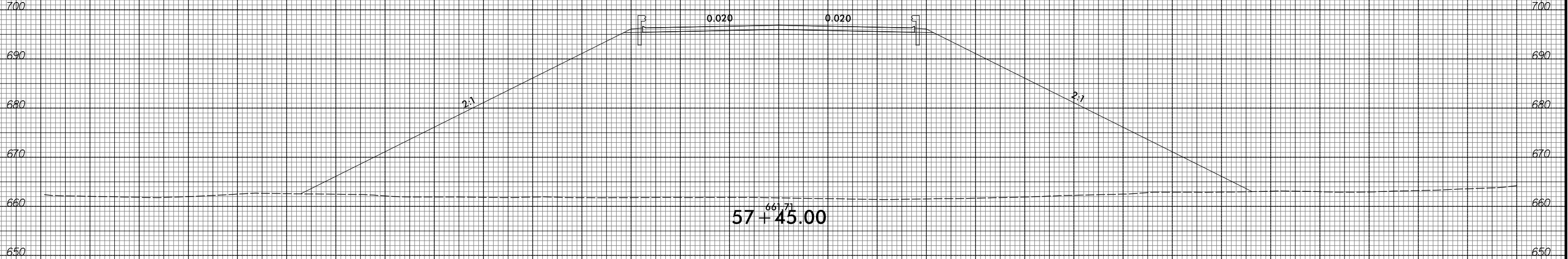
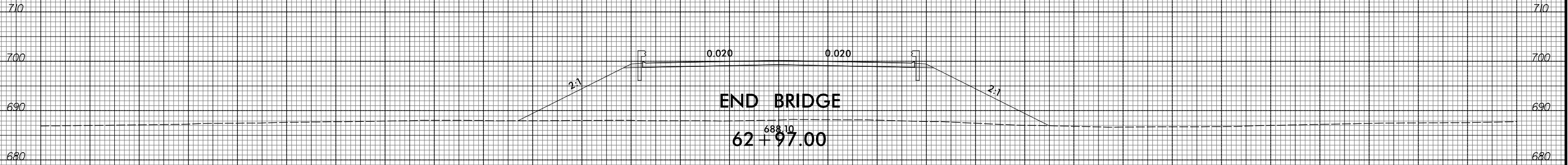


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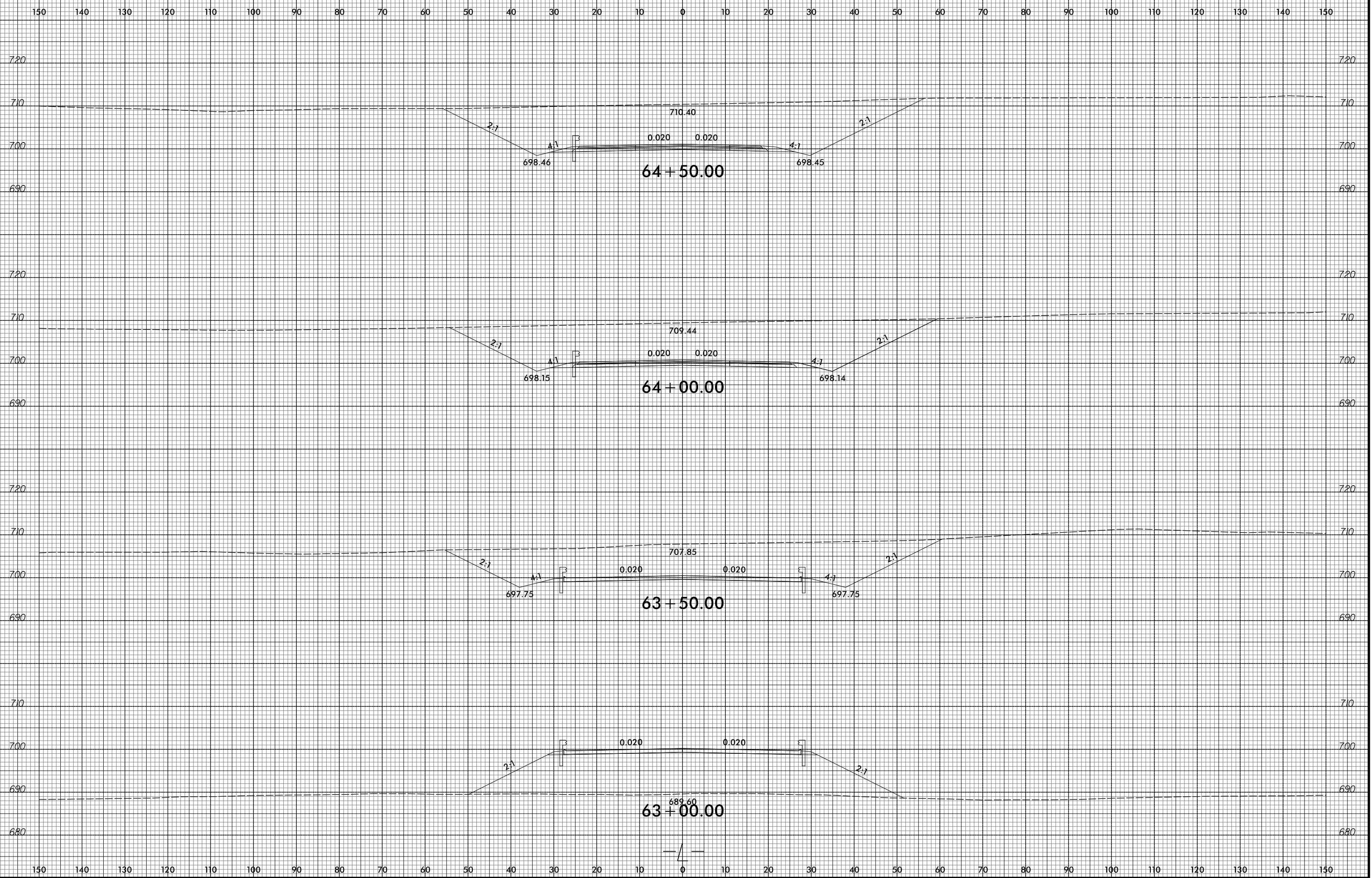


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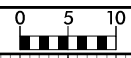


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W-5516	X-25

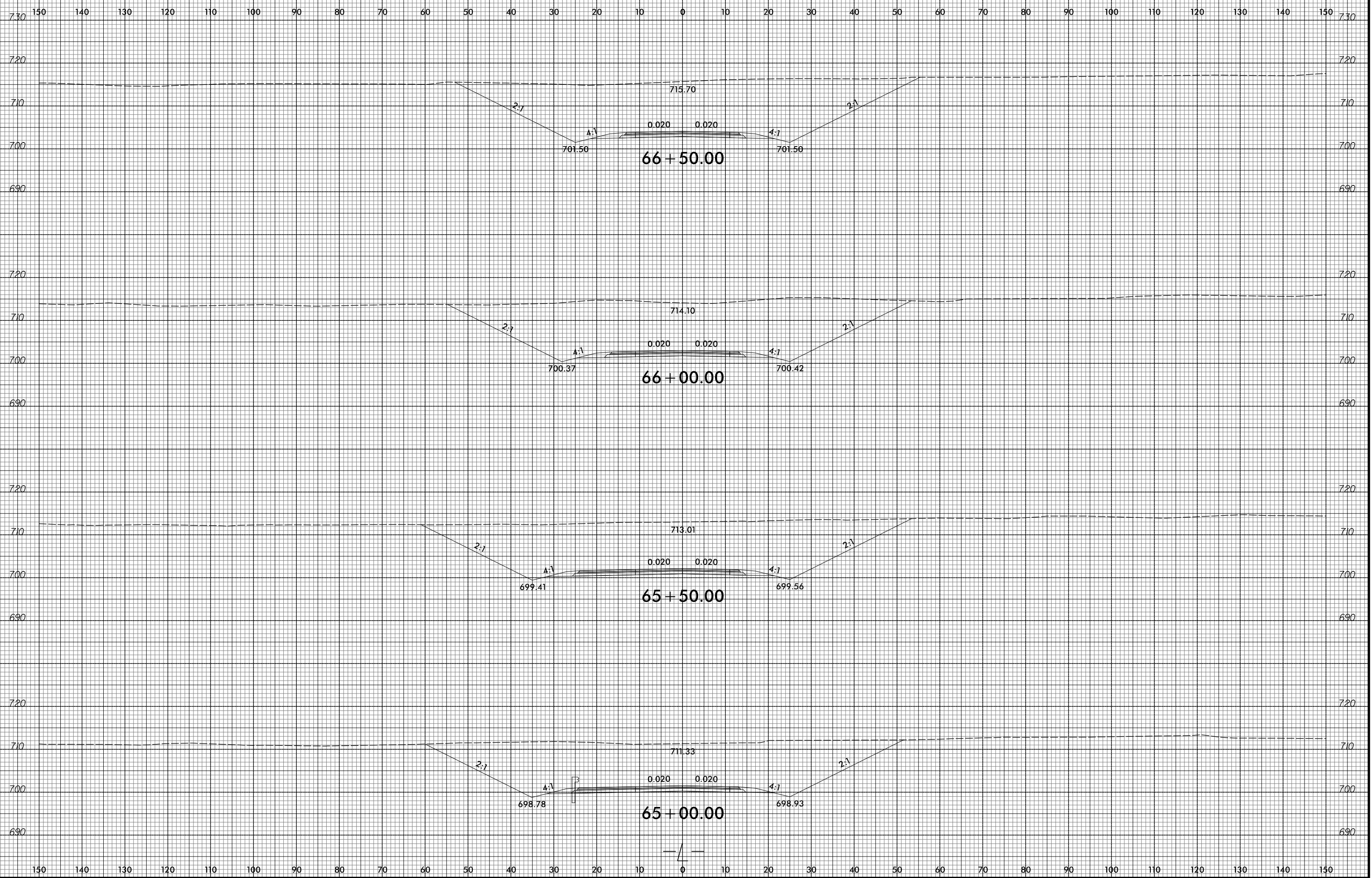


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 ICA ENGINEERING, INC.

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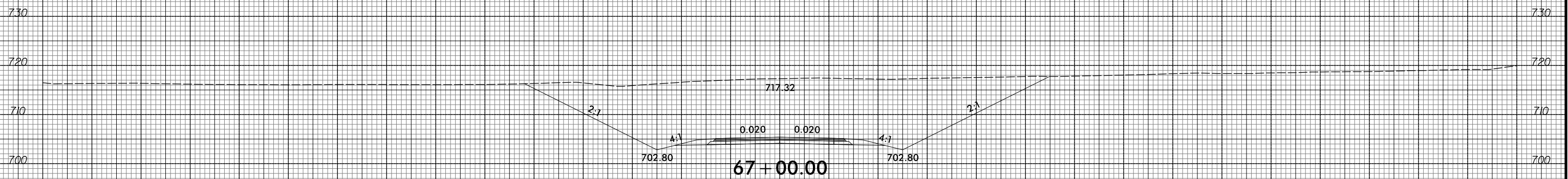
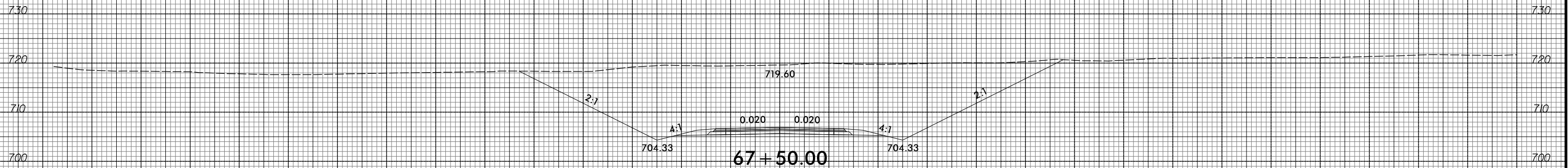
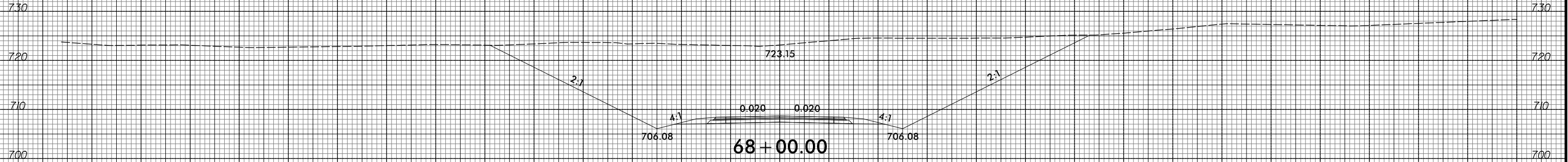


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W-5516	X-26

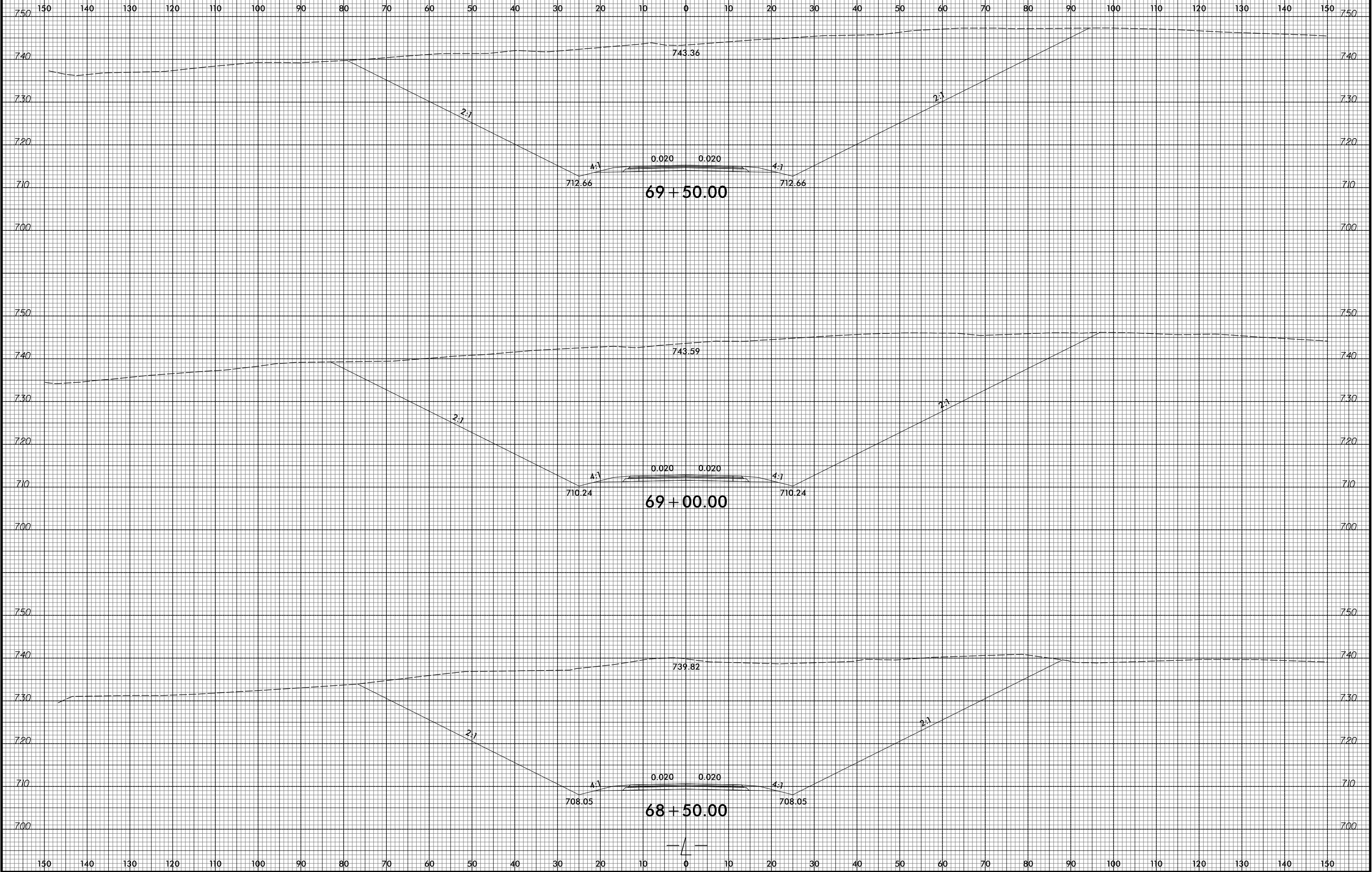


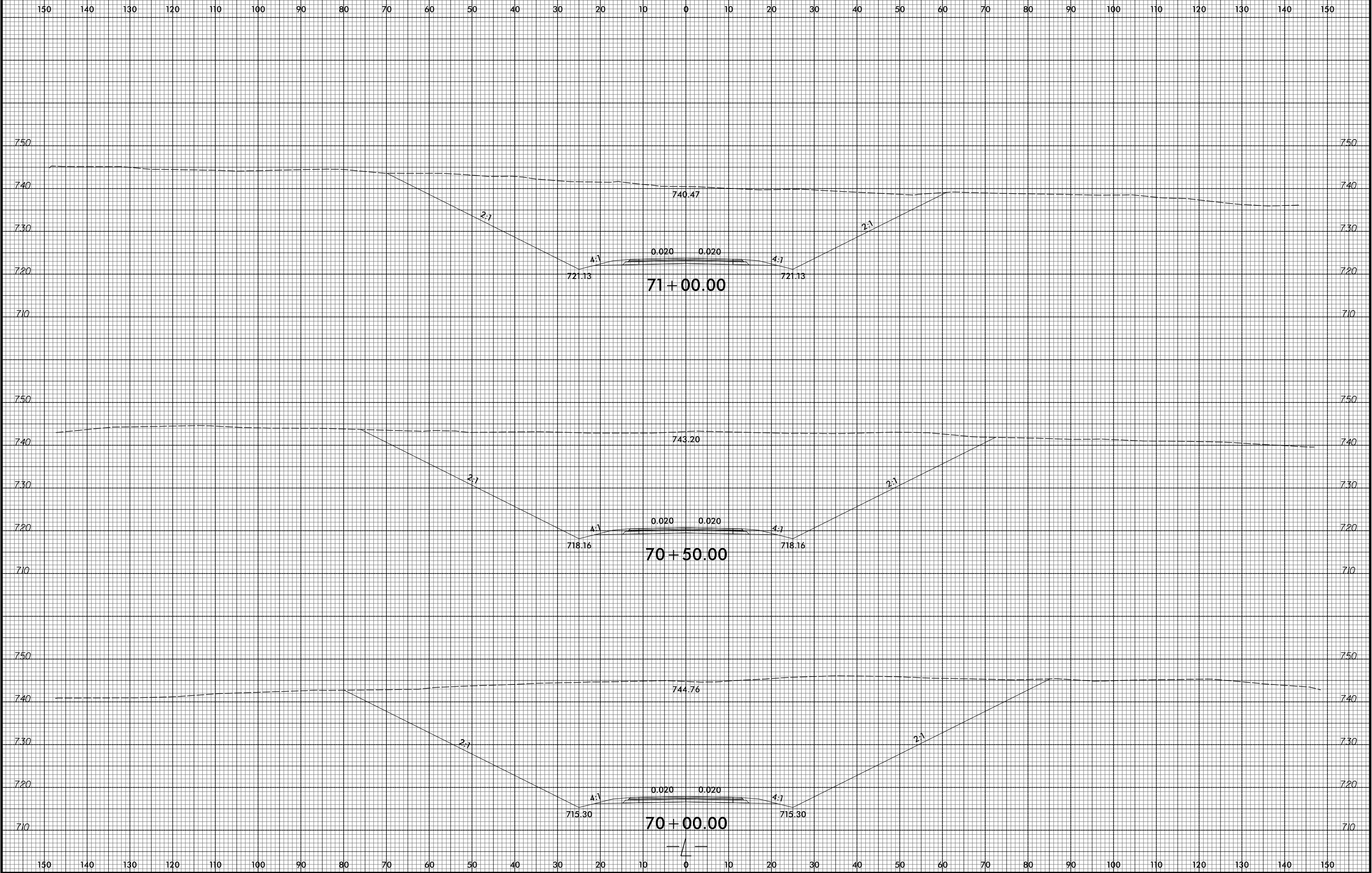
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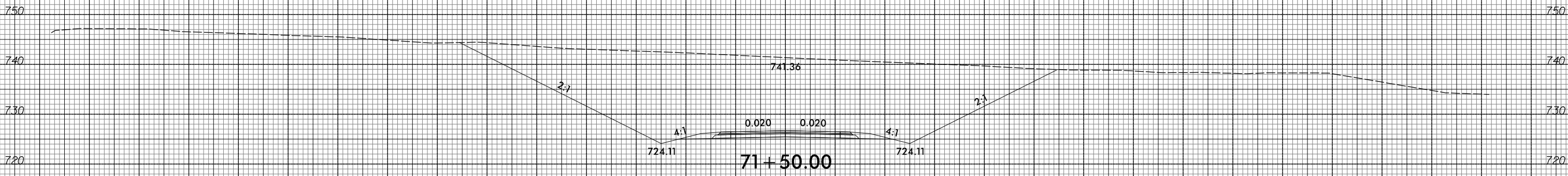
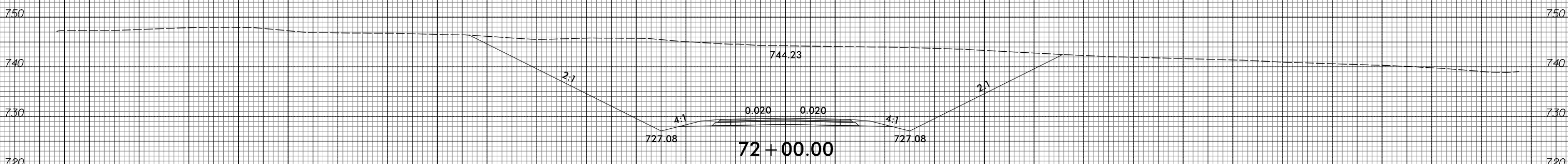
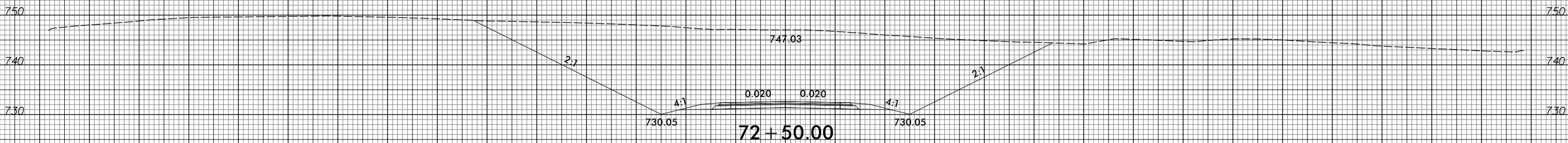
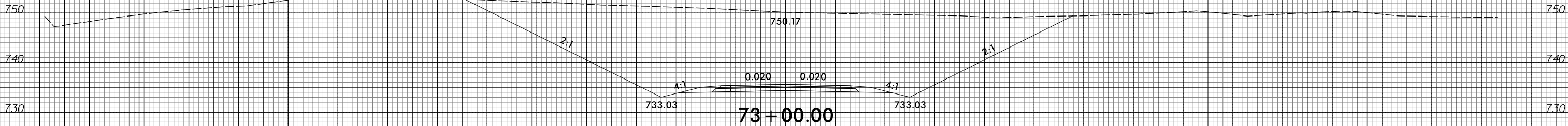


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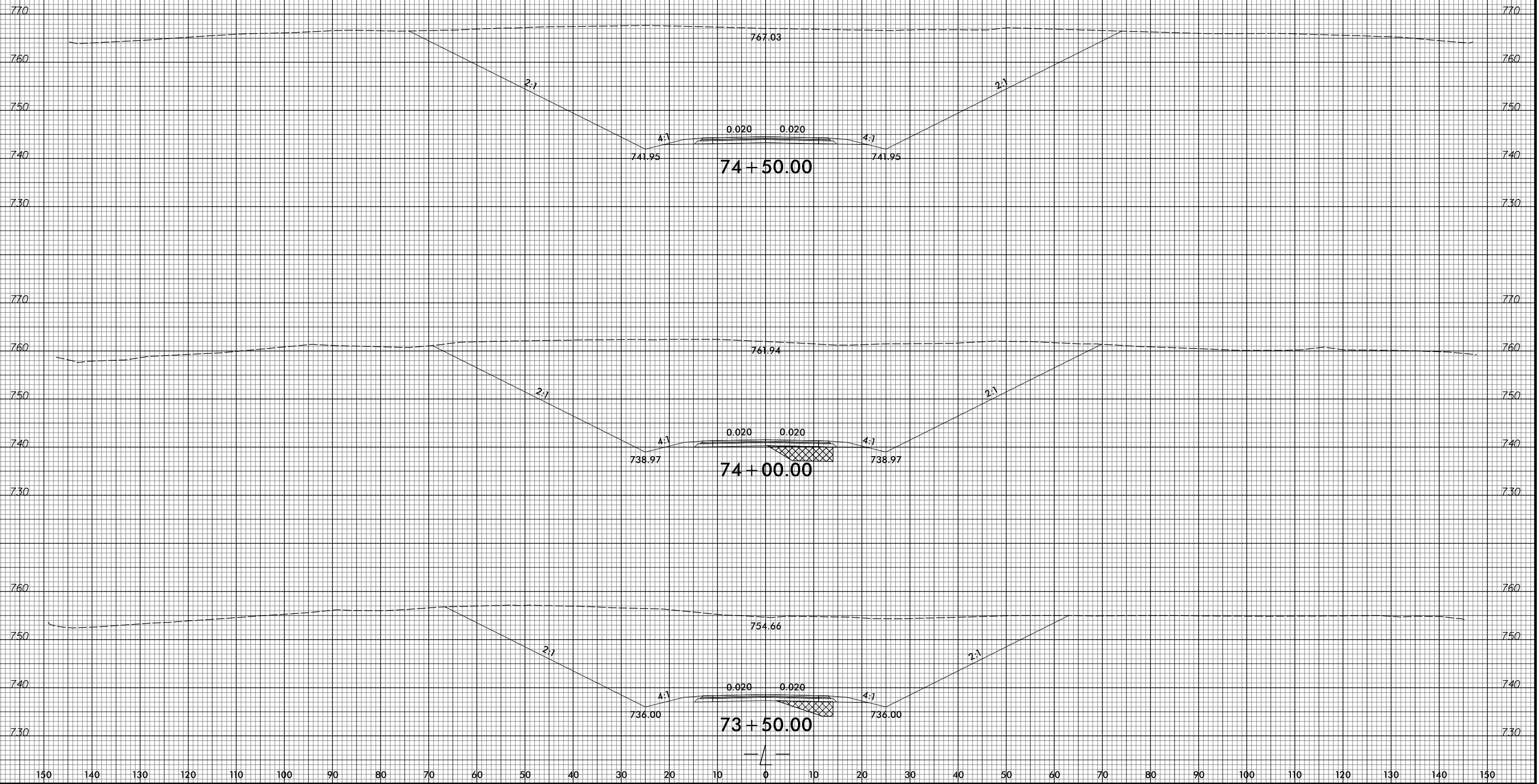


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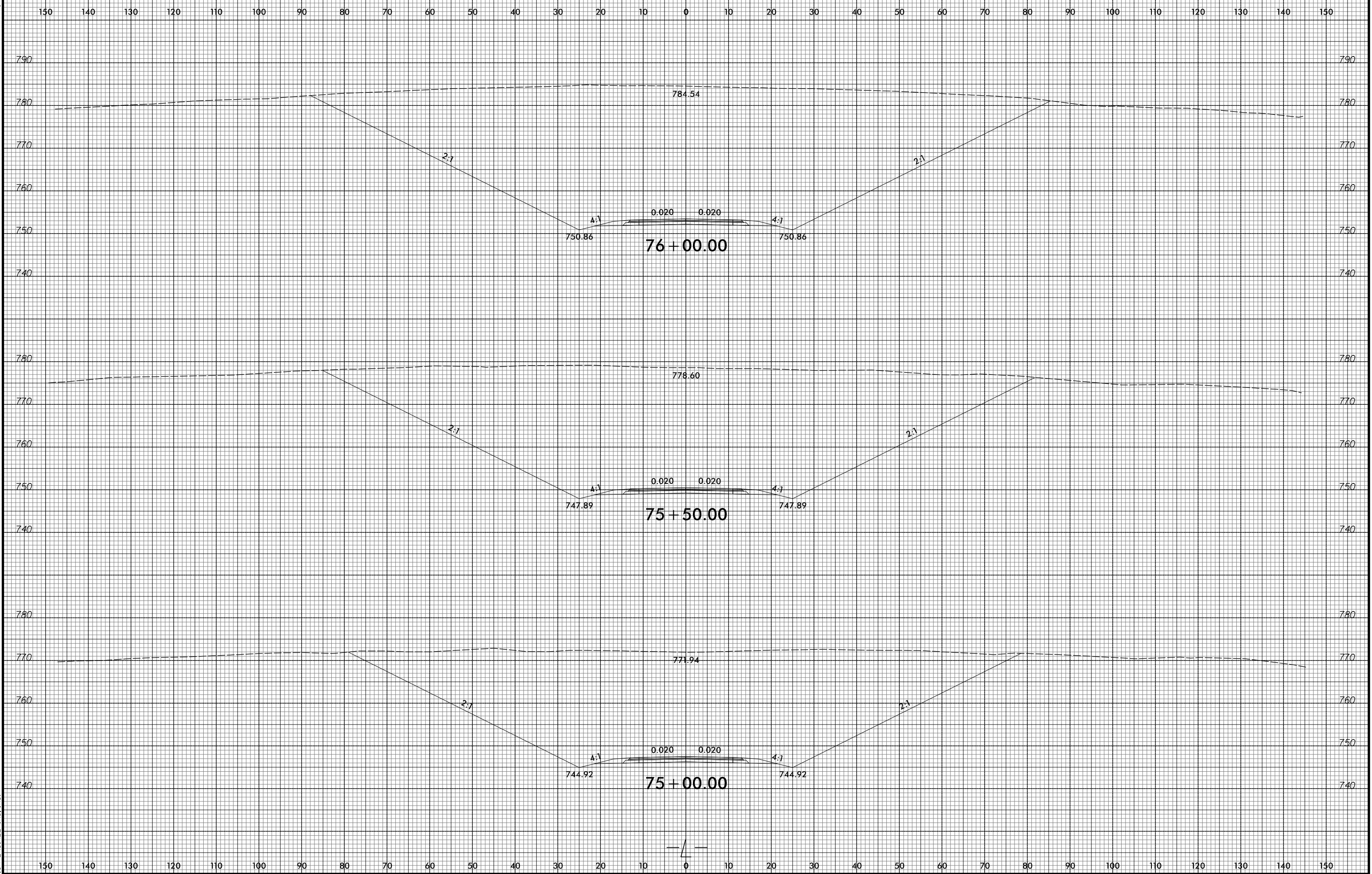


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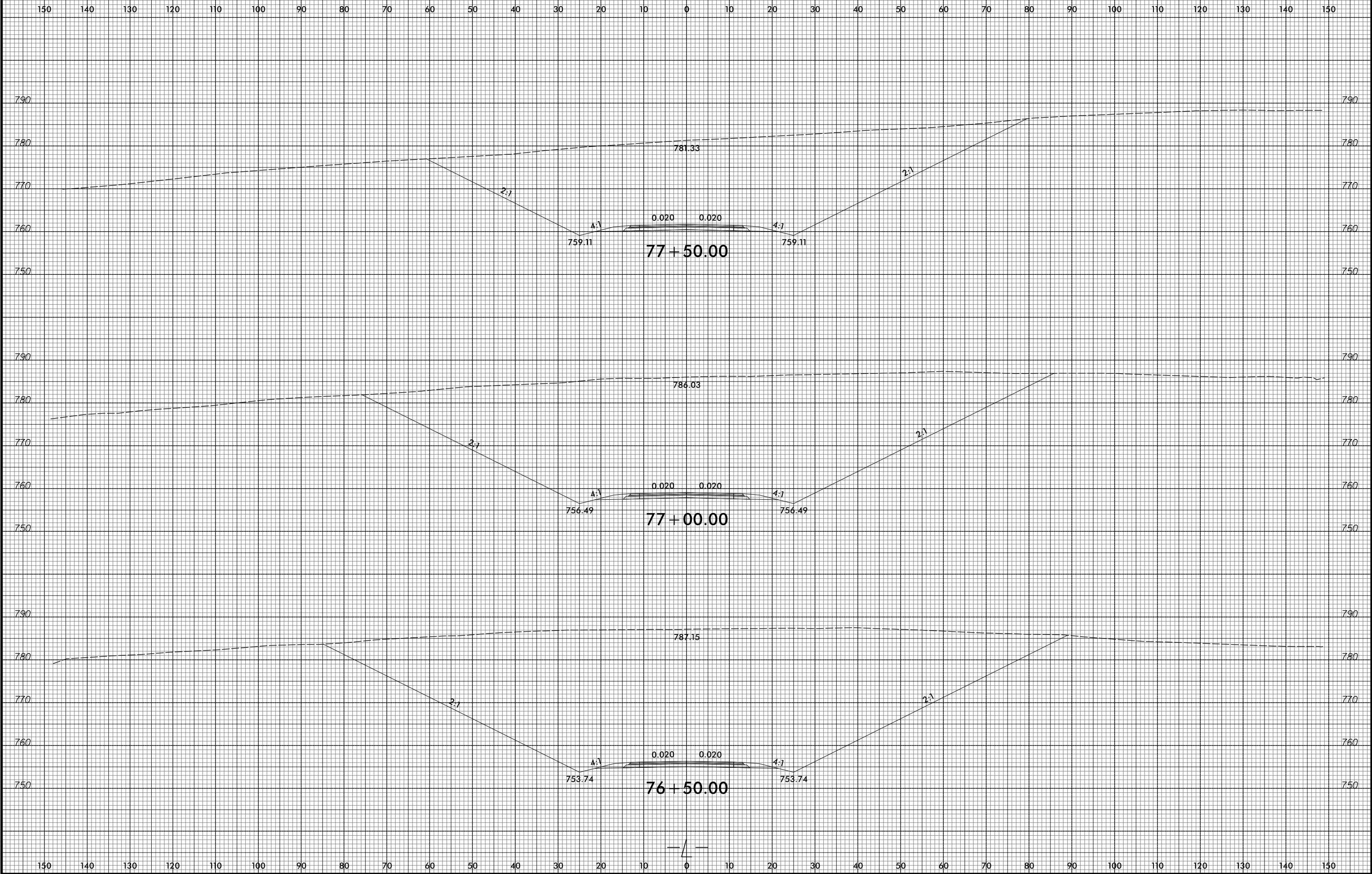
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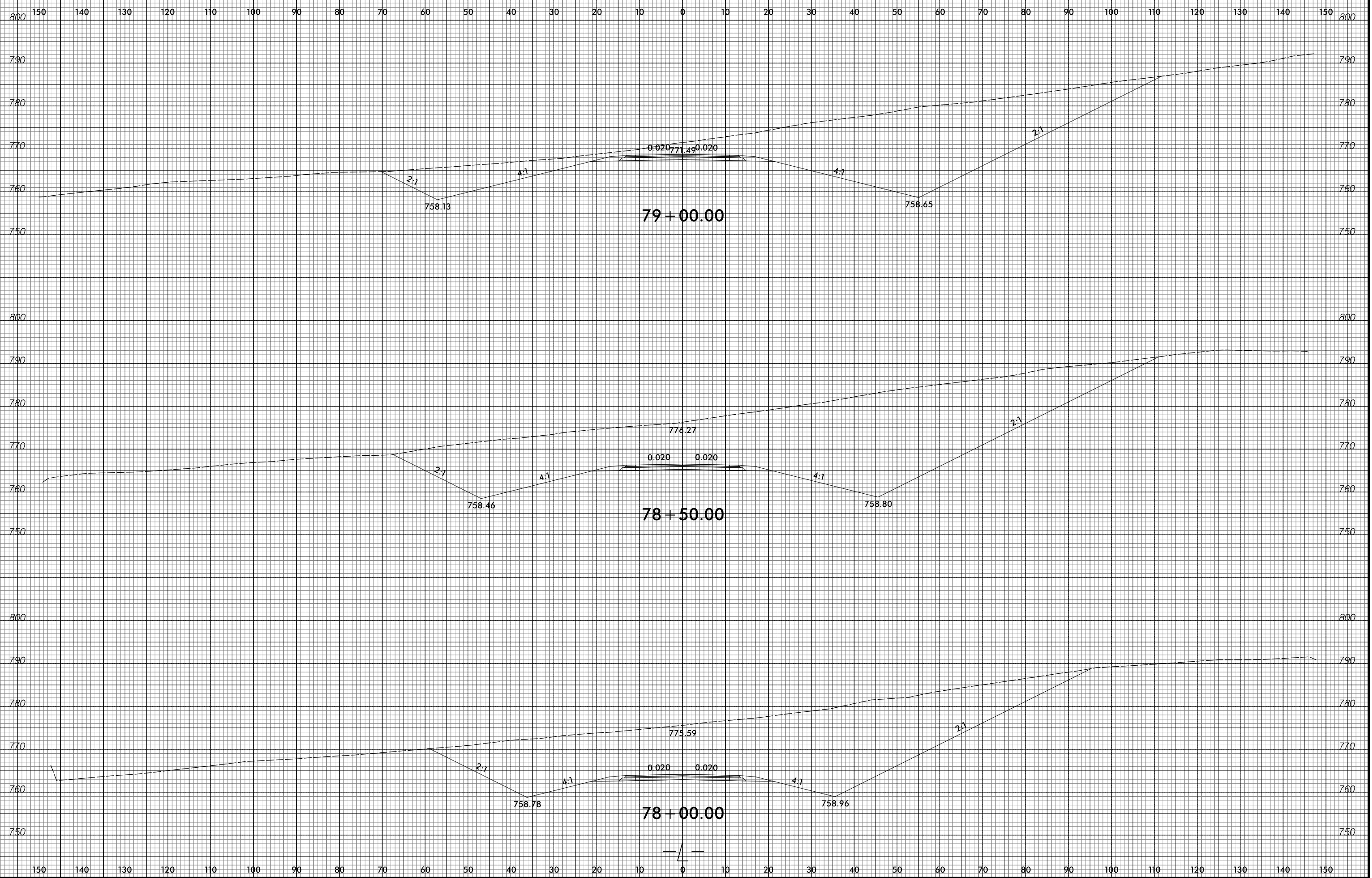


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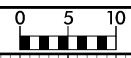


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ICA ENGINEERING, INC.

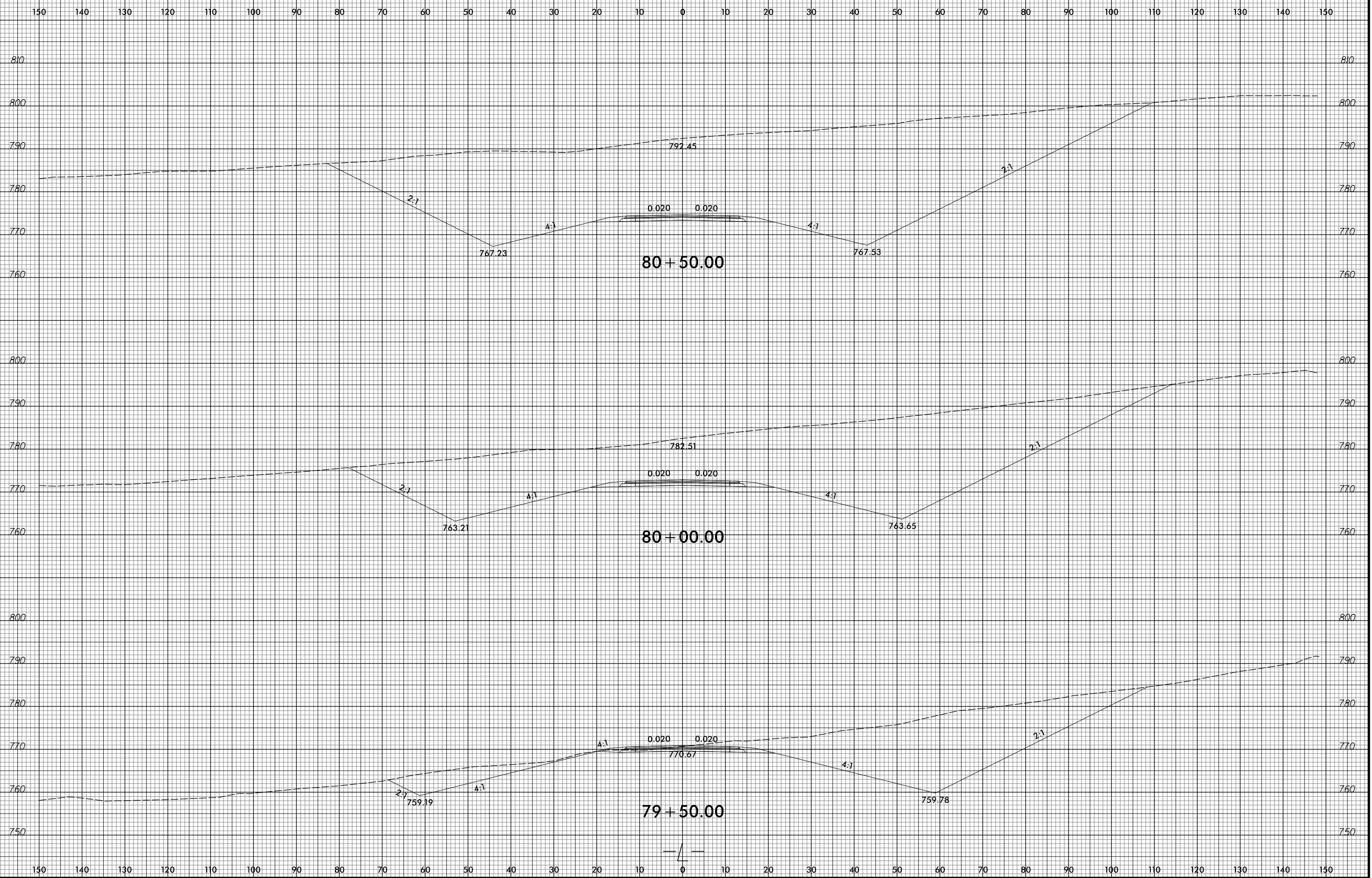




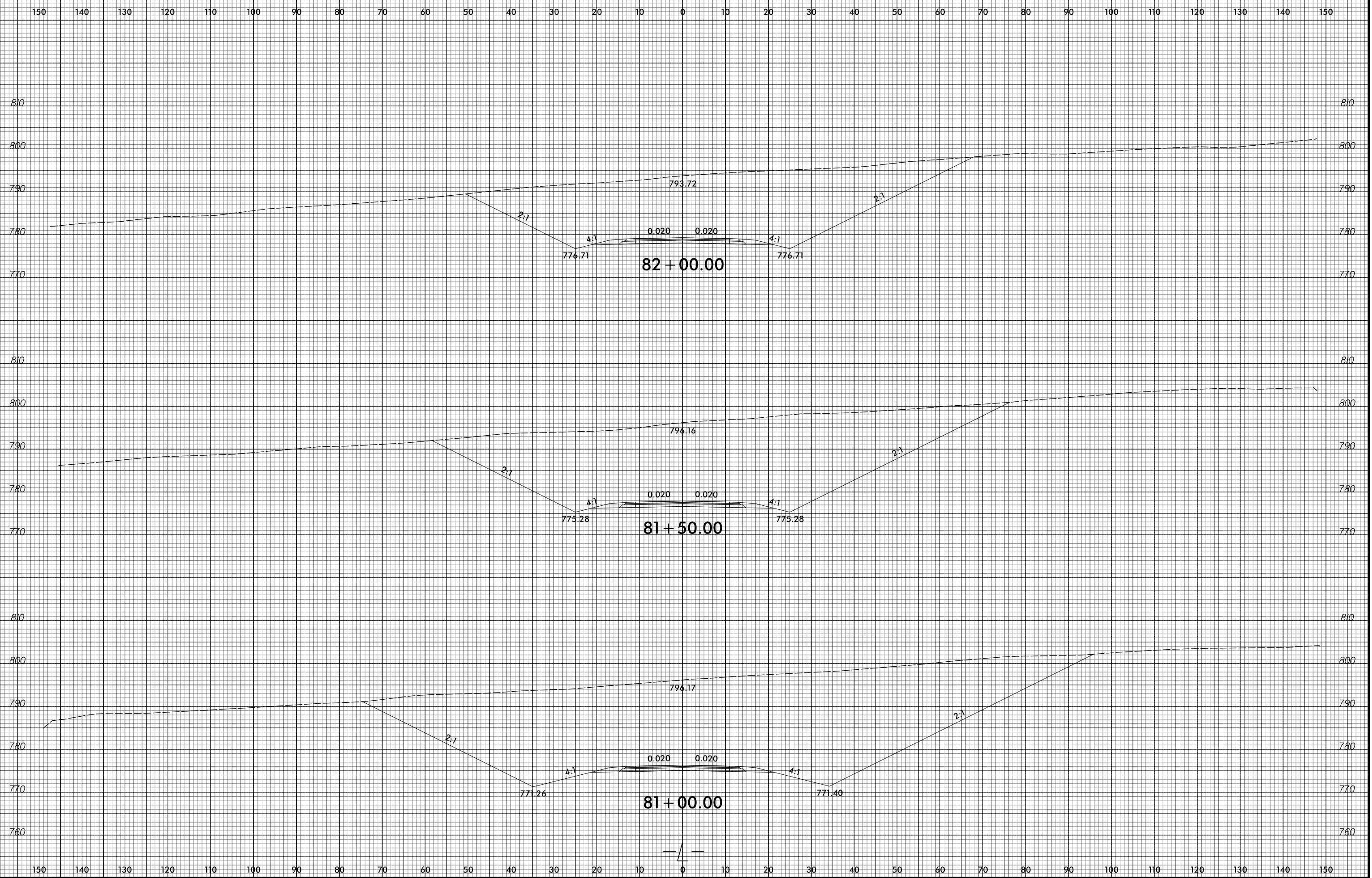
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PROJ. REFERENCE NO.	SHEET NO.
W-5516	X-35



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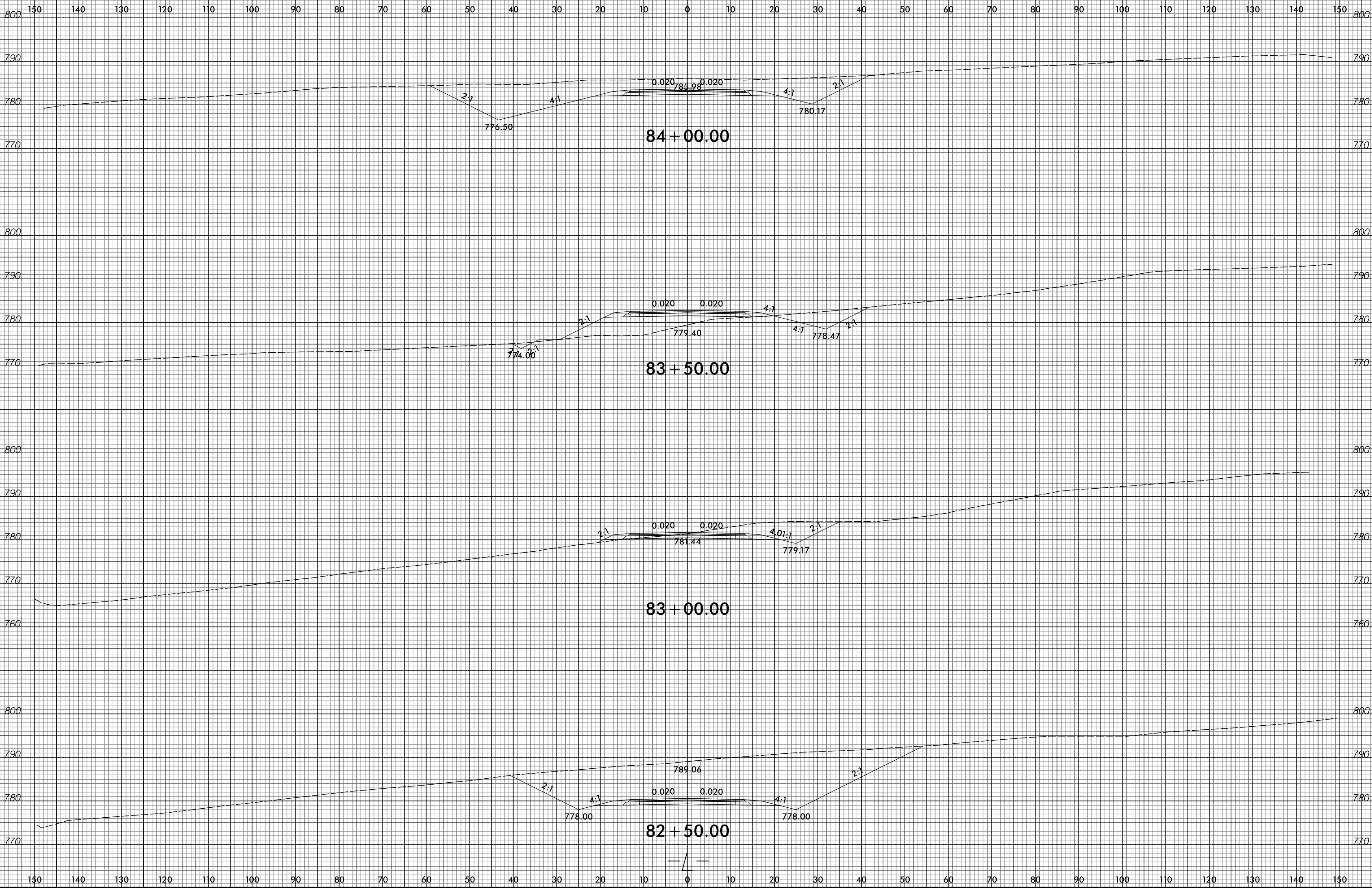


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PROJ. REFERENCE NO.
W-5516

SHEET NO.
X-37

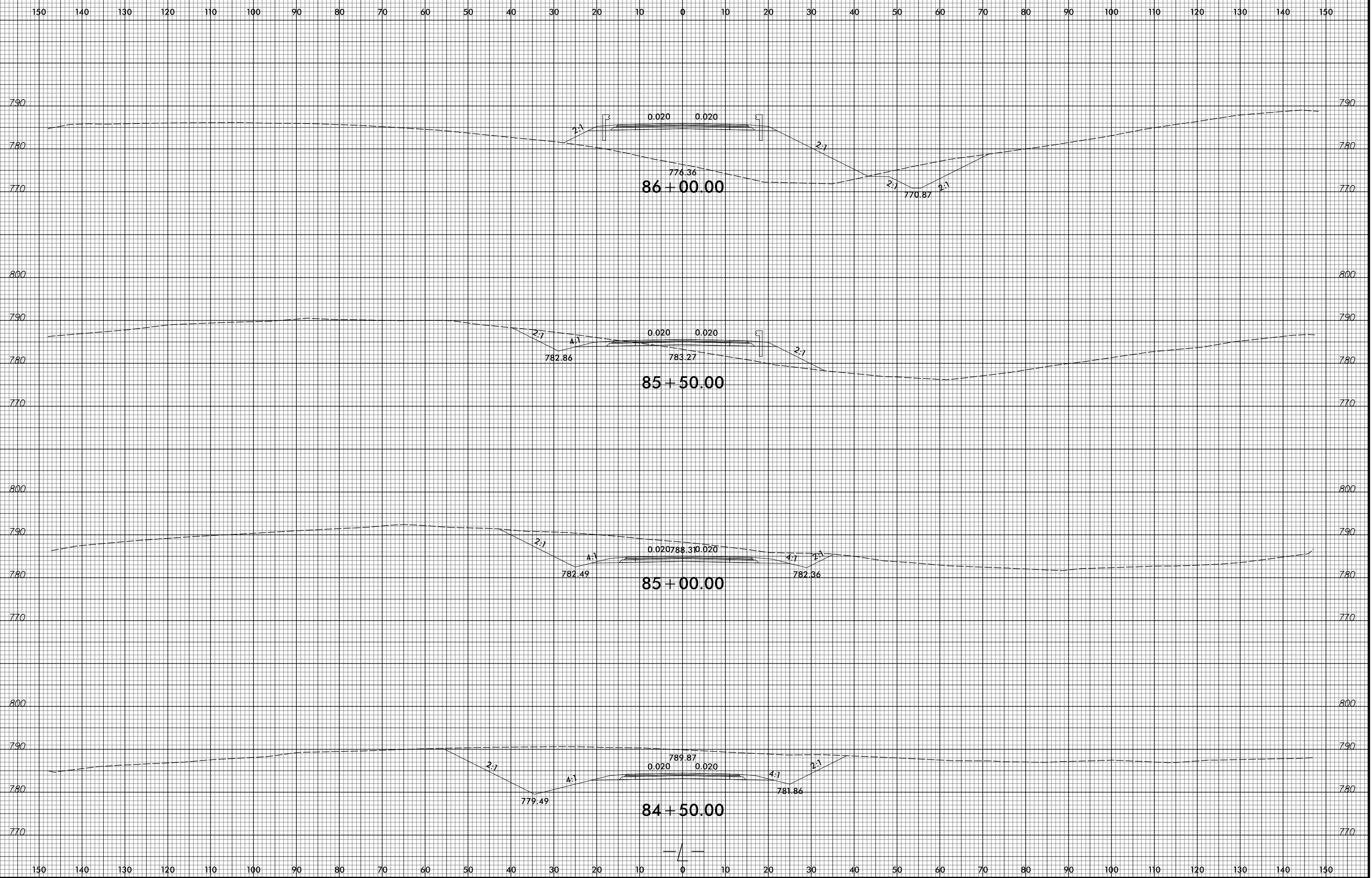


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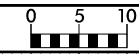


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W-5516	X-38



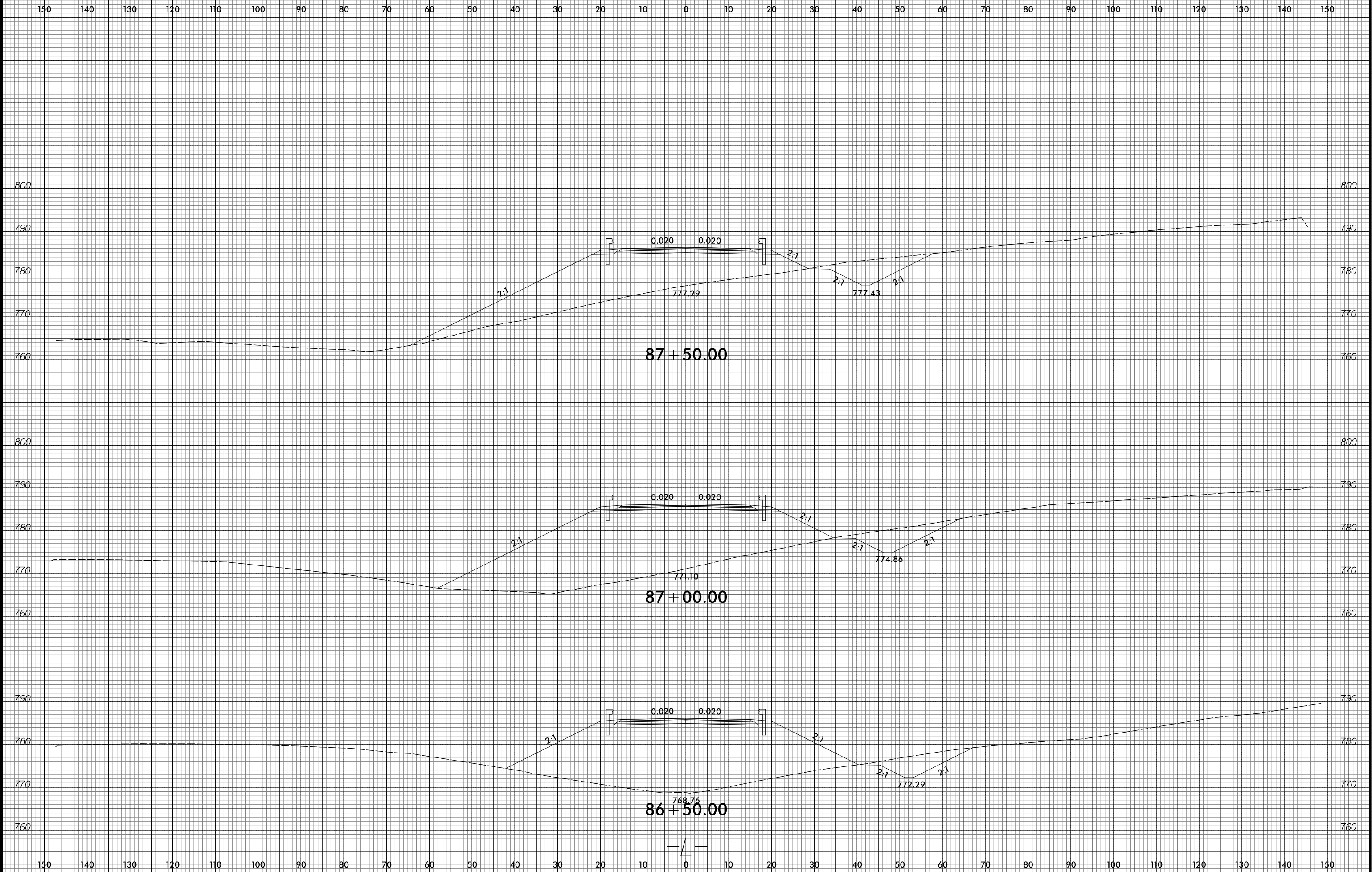
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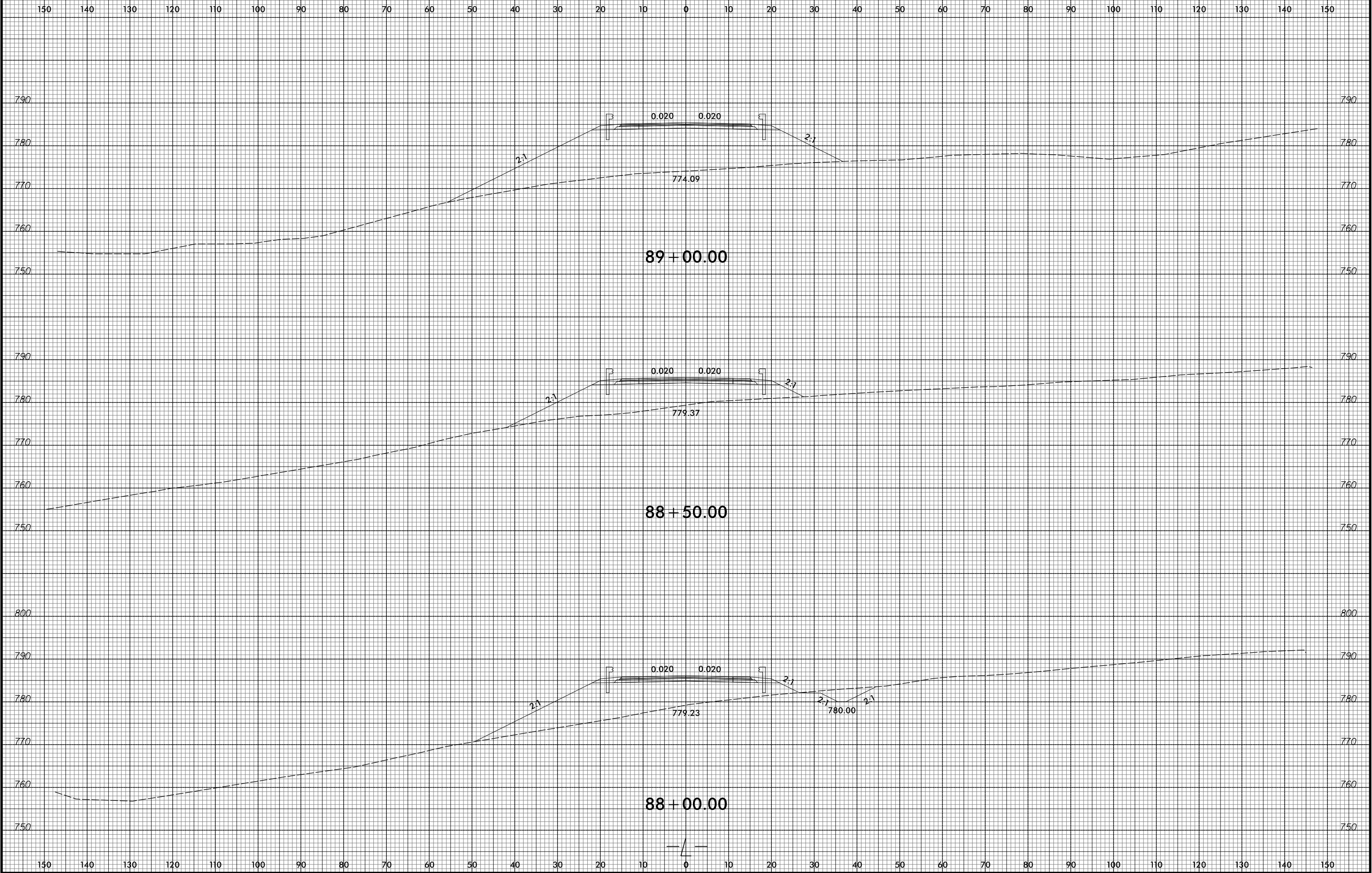


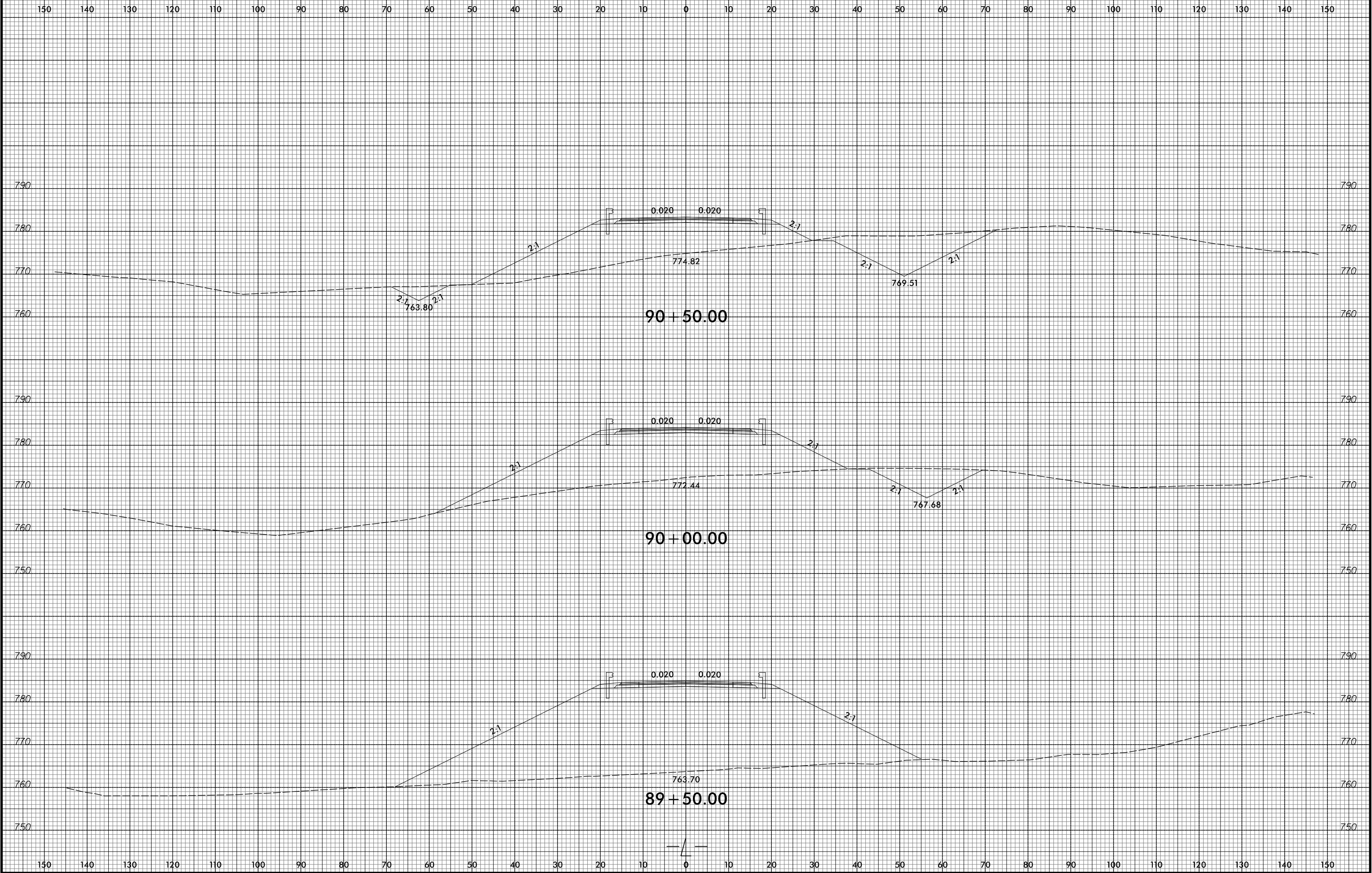
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SHEET NO.
X-39



7/2/2015
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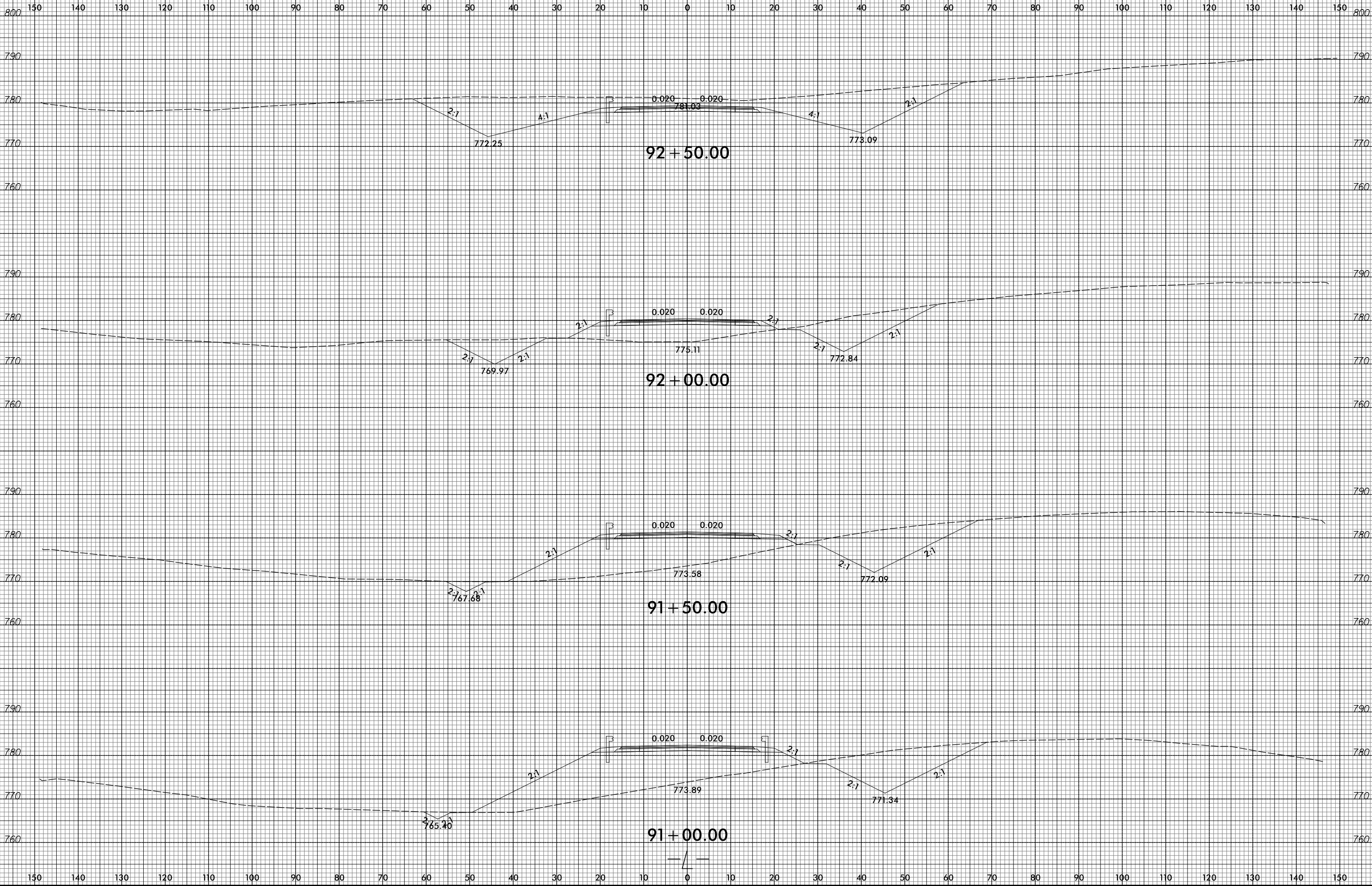


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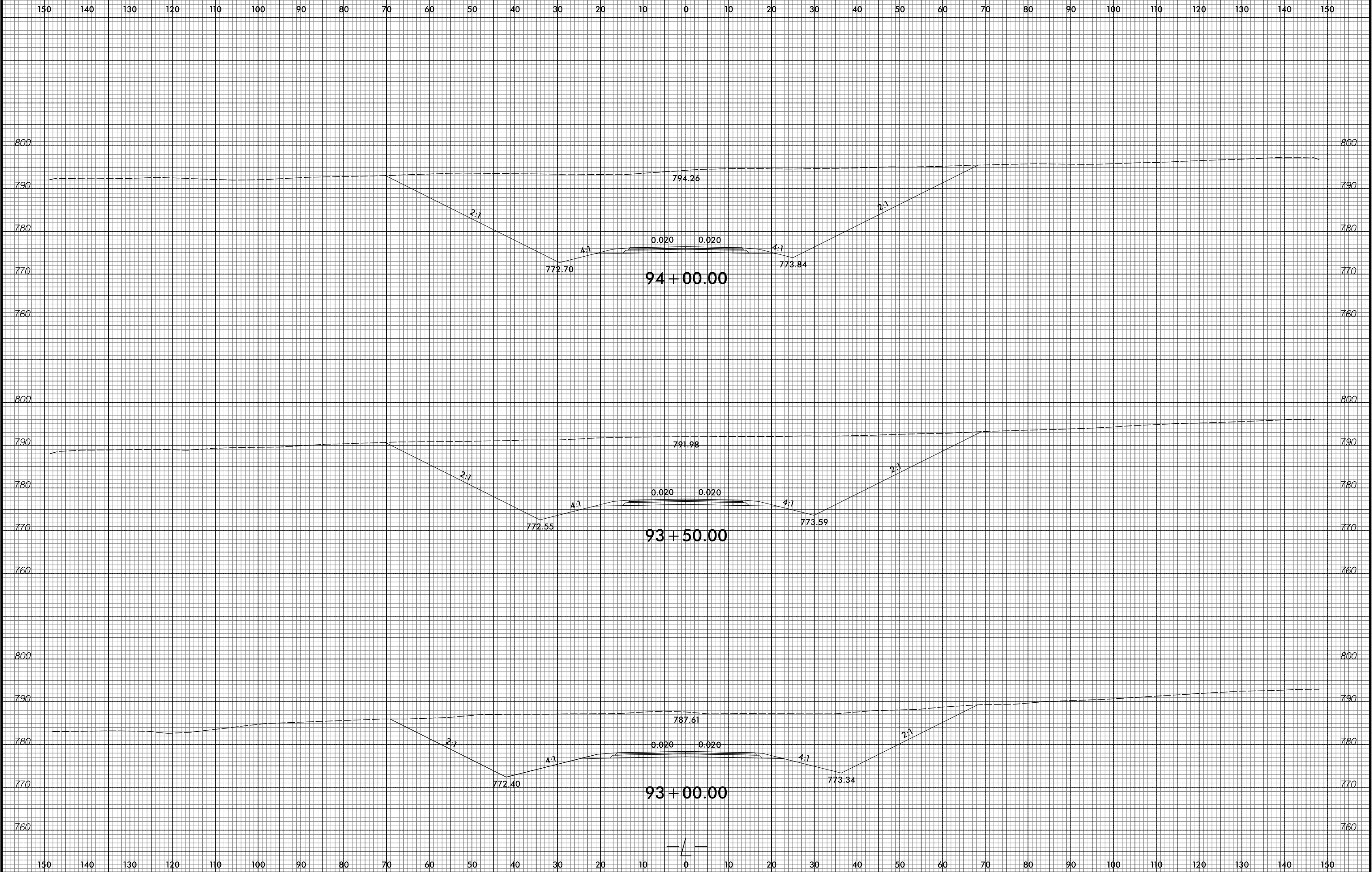


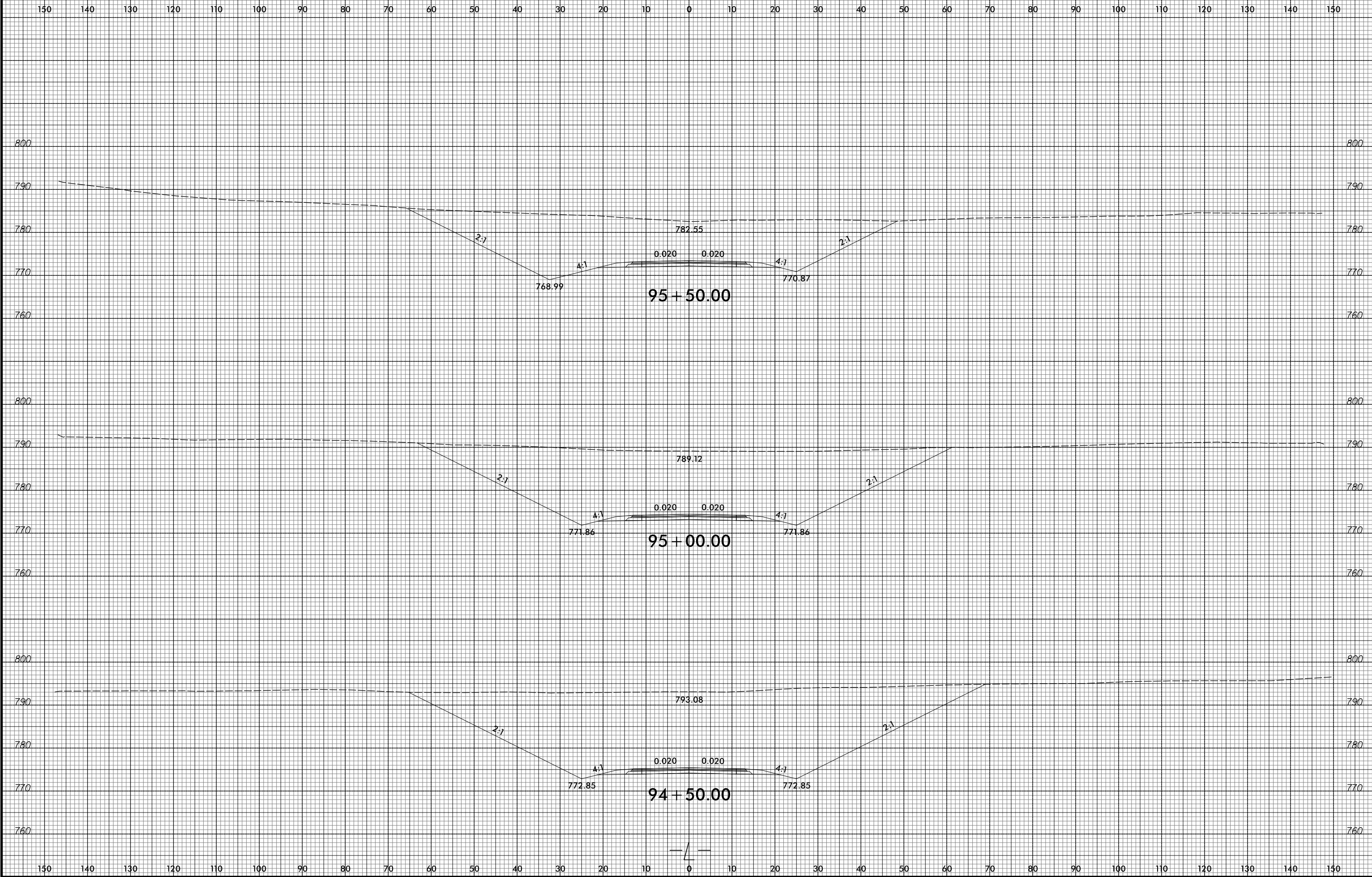
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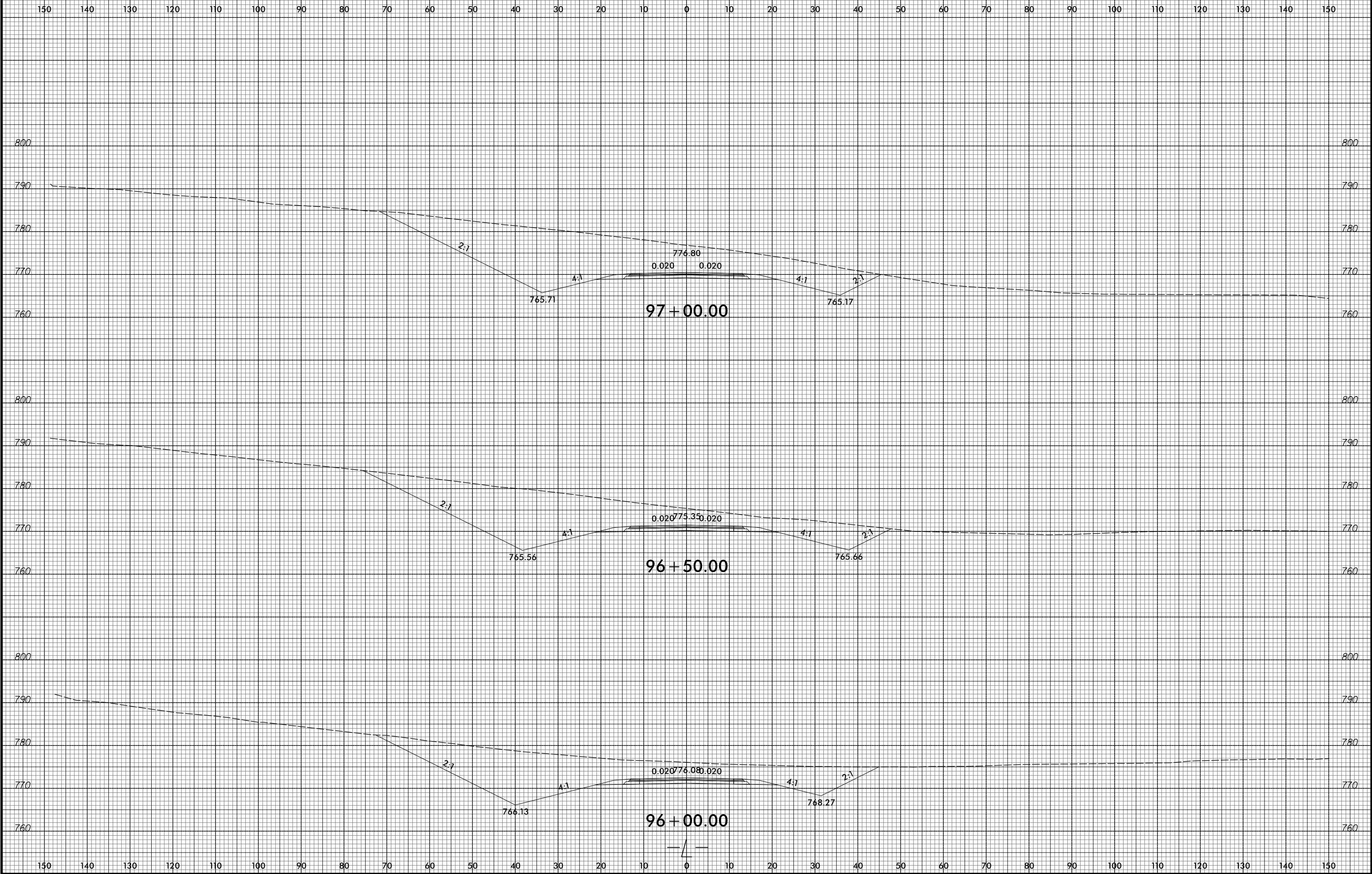
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X-42

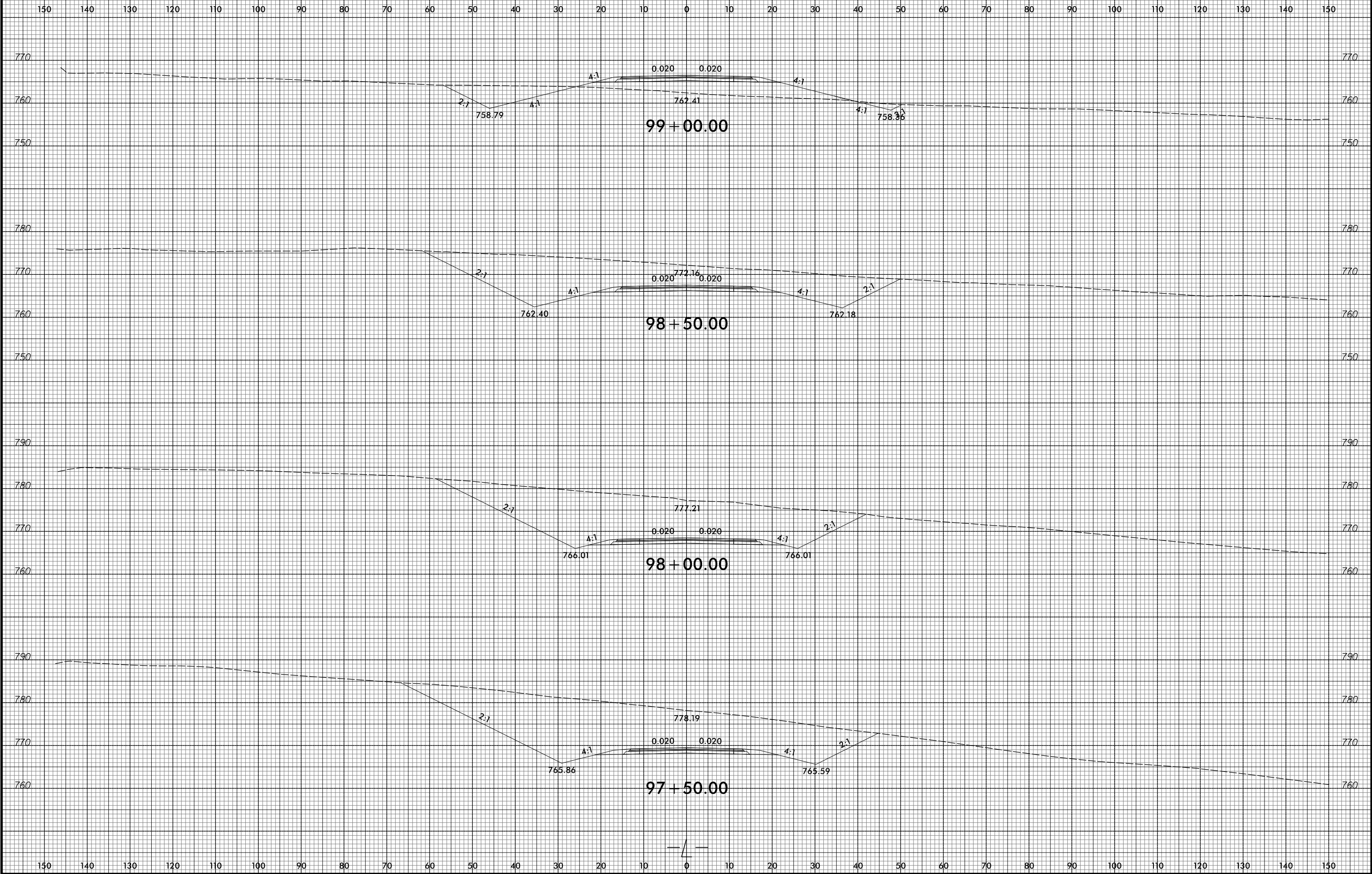


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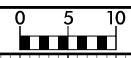




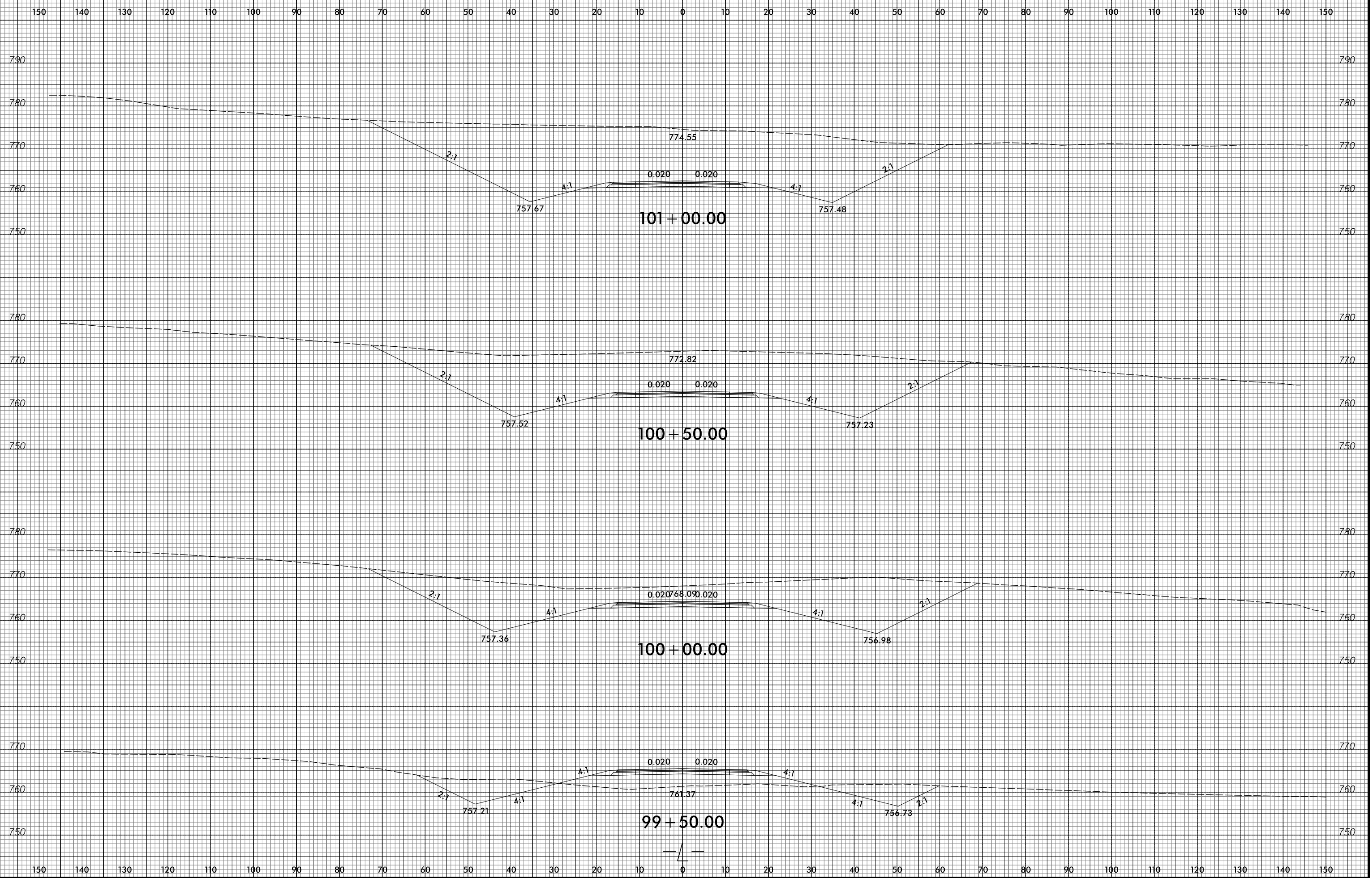




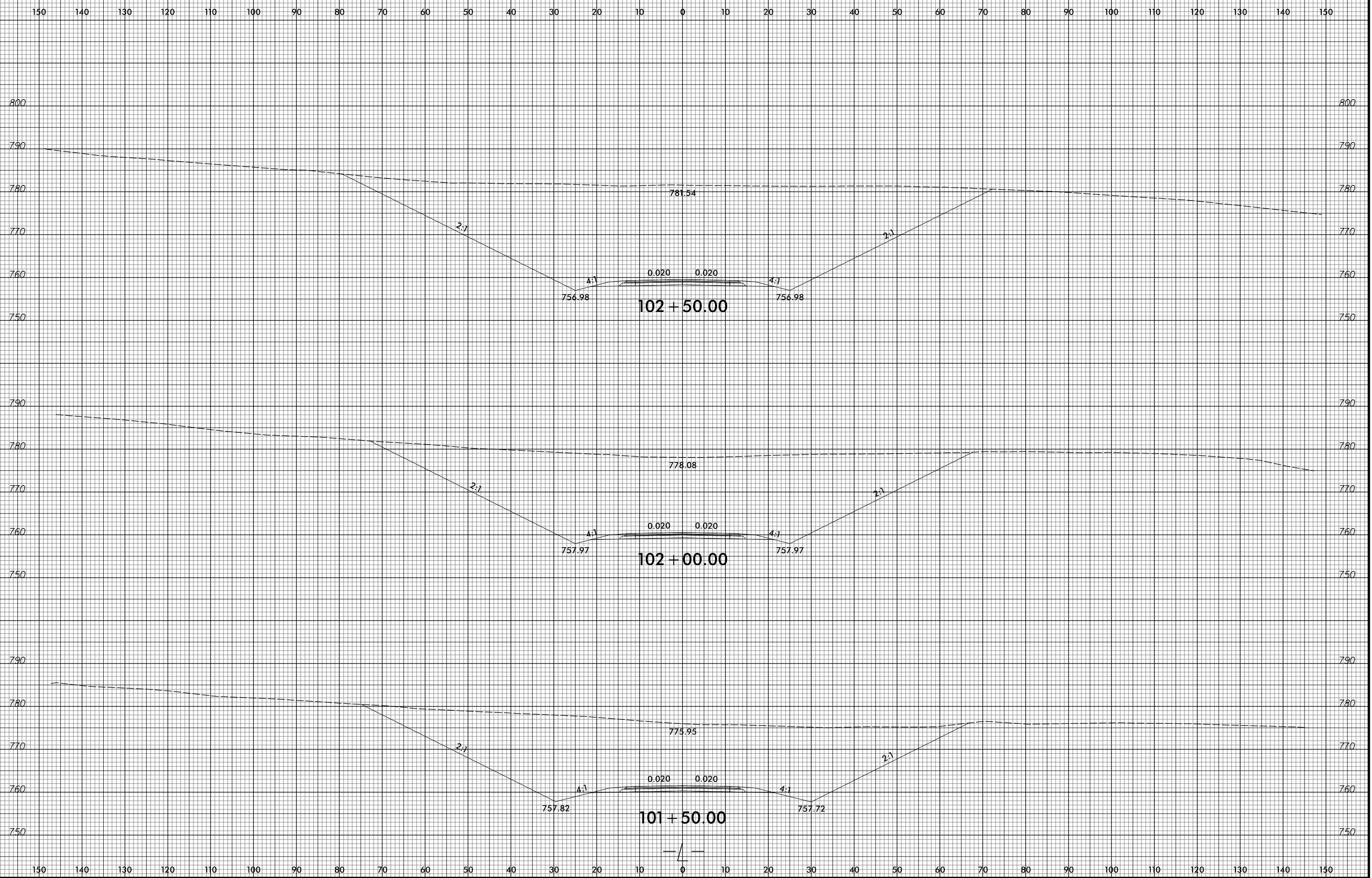
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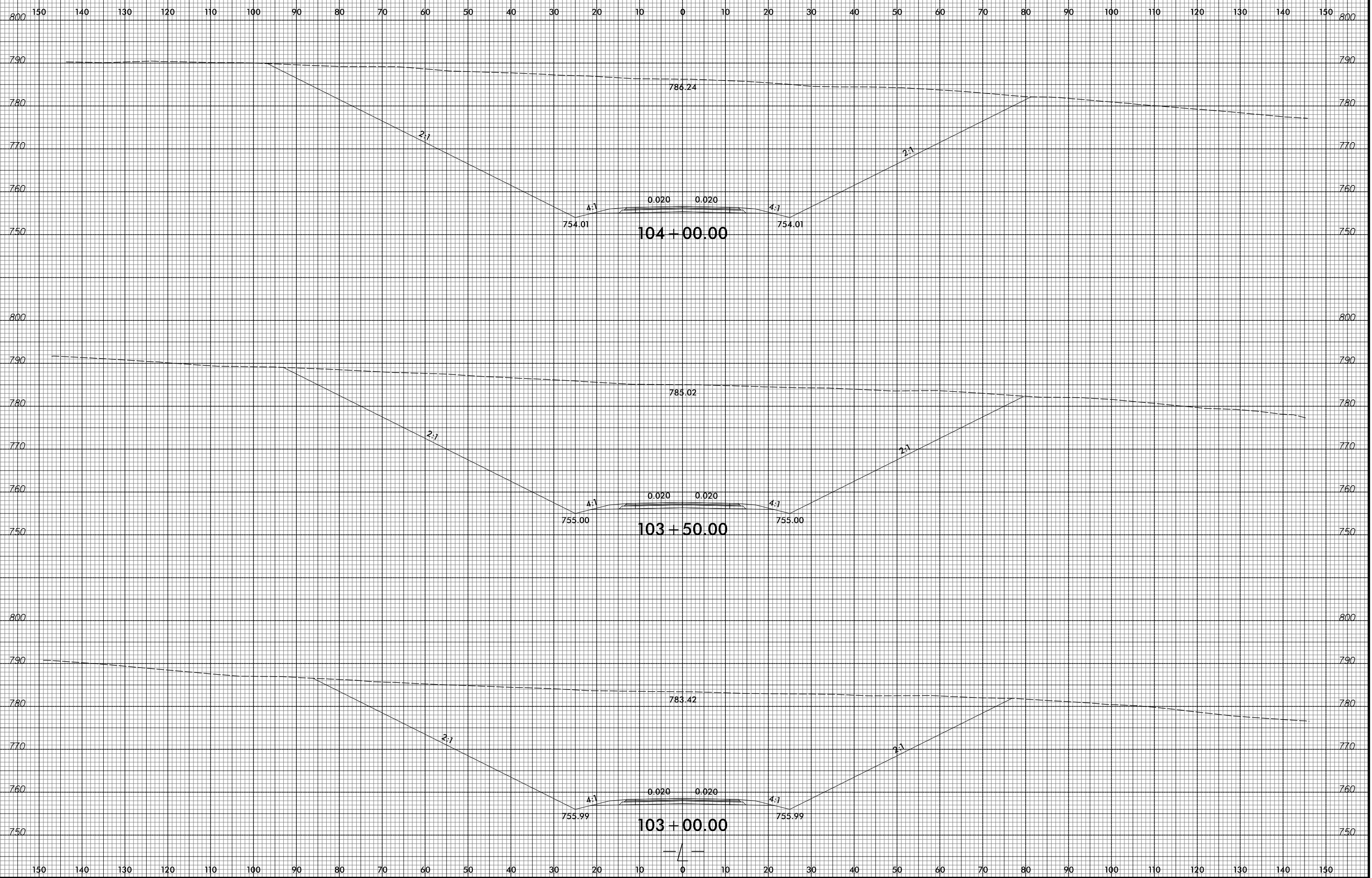


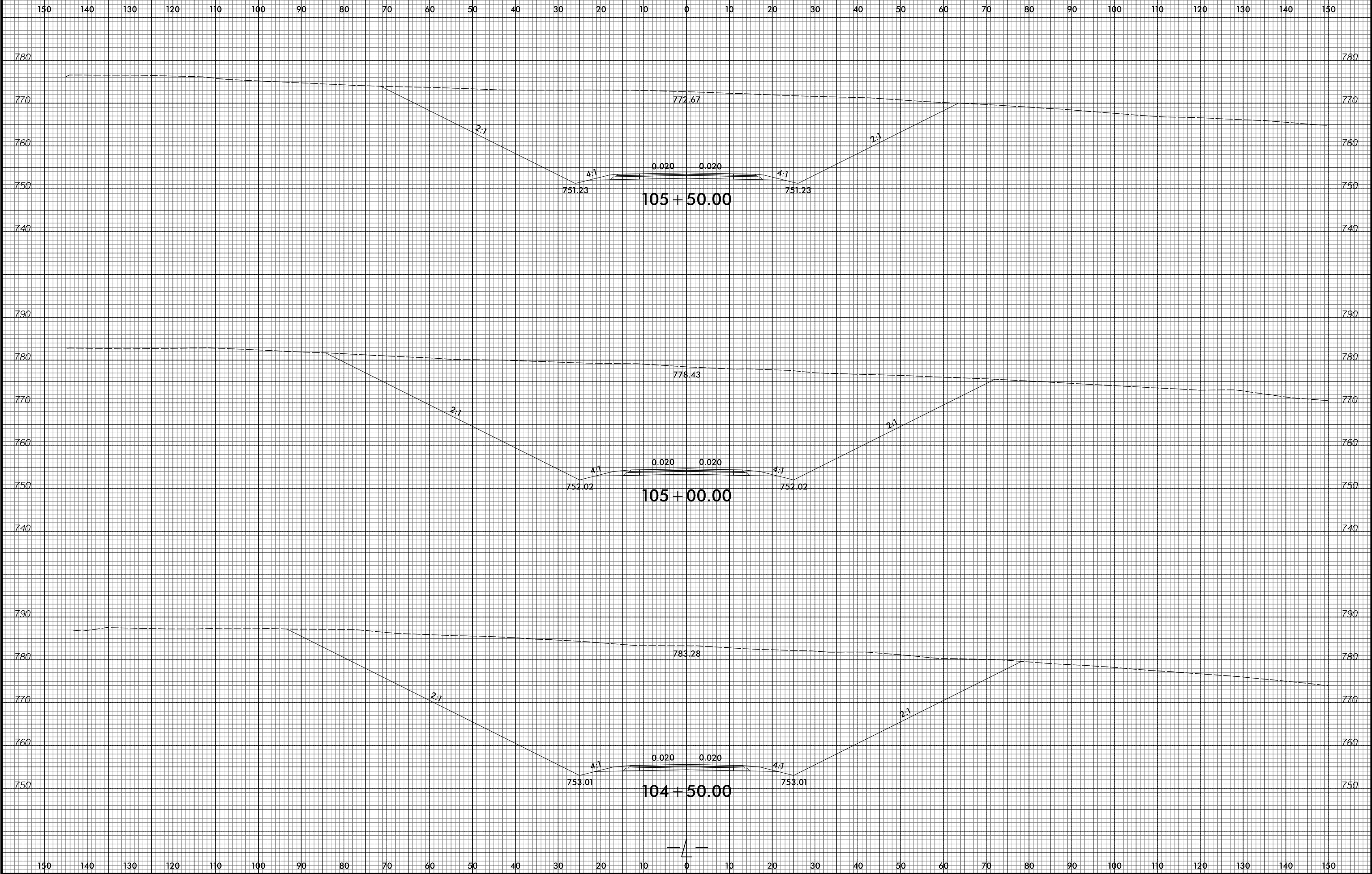
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W-5516	X-47



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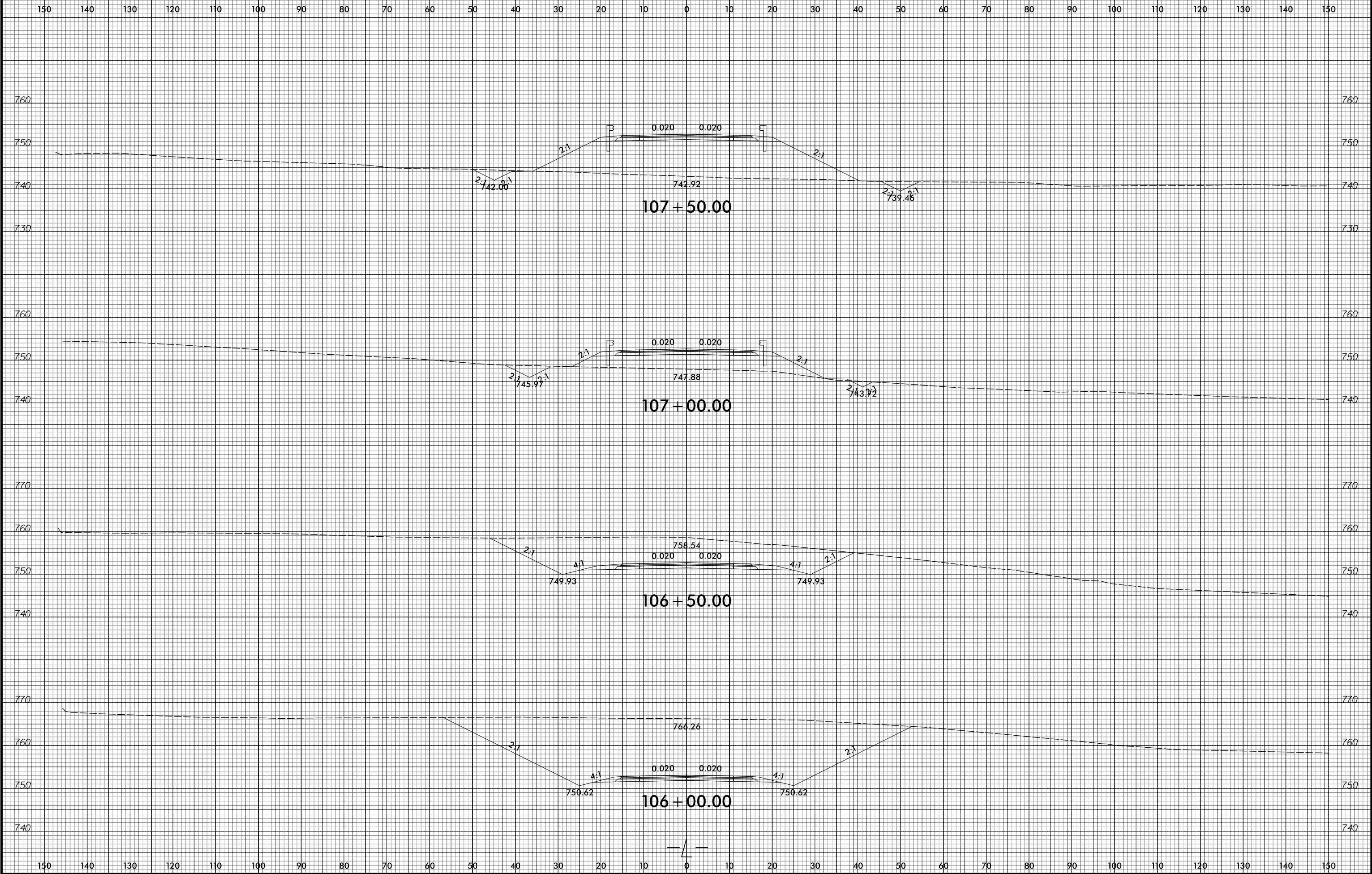


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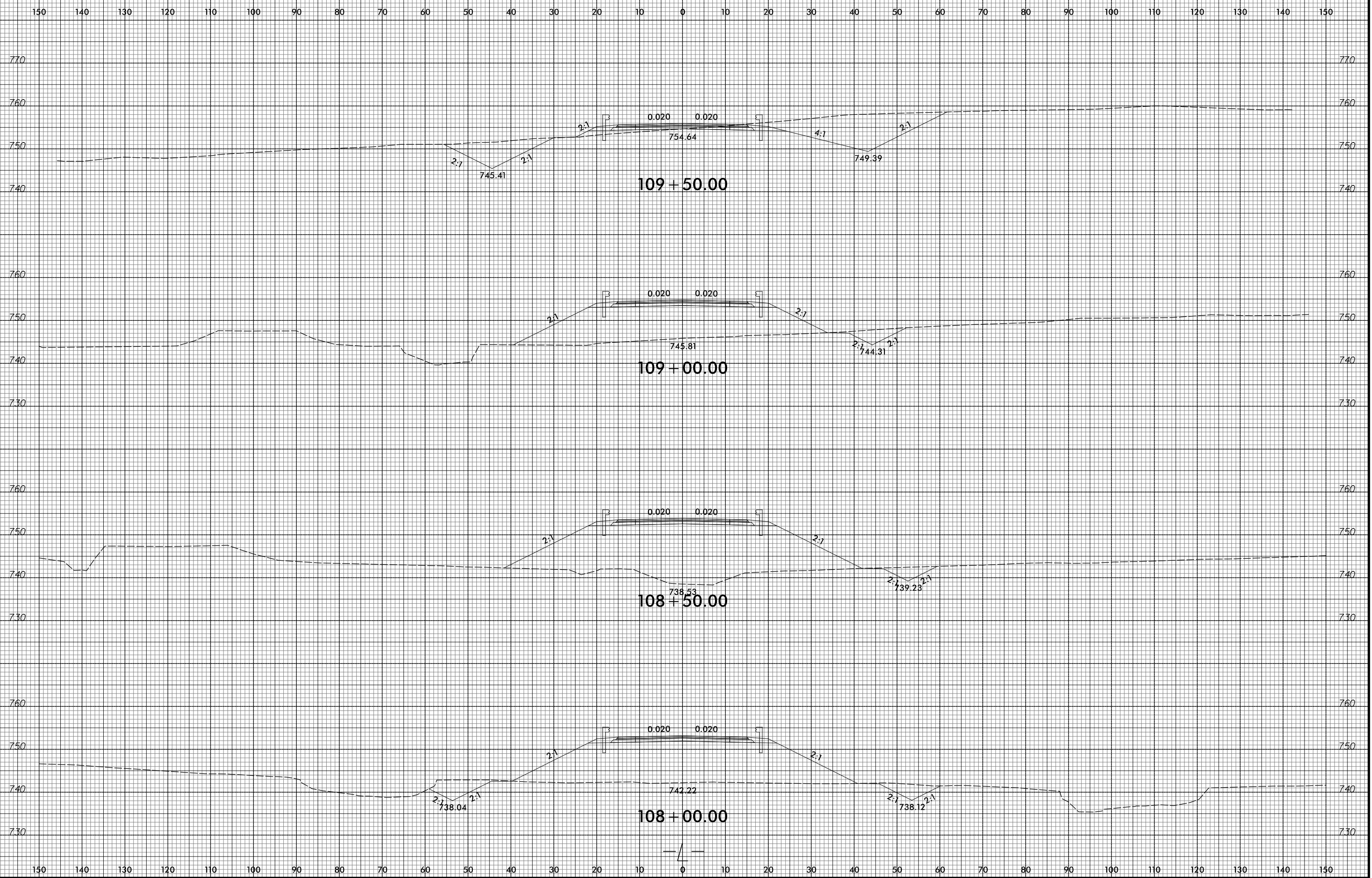
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W-5516

SHEET NO.
X-51

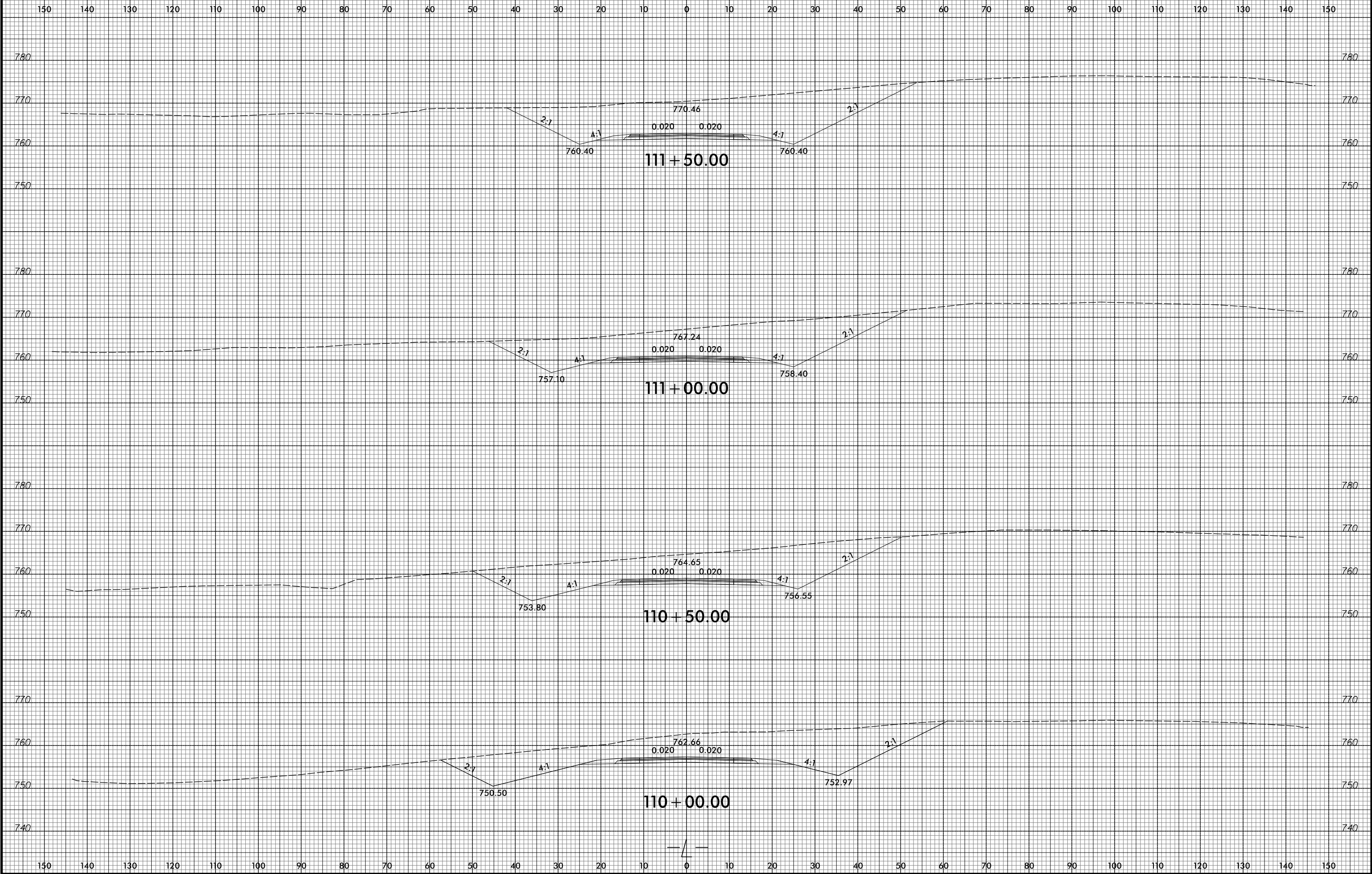


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ICA ENGINEERING, INC.

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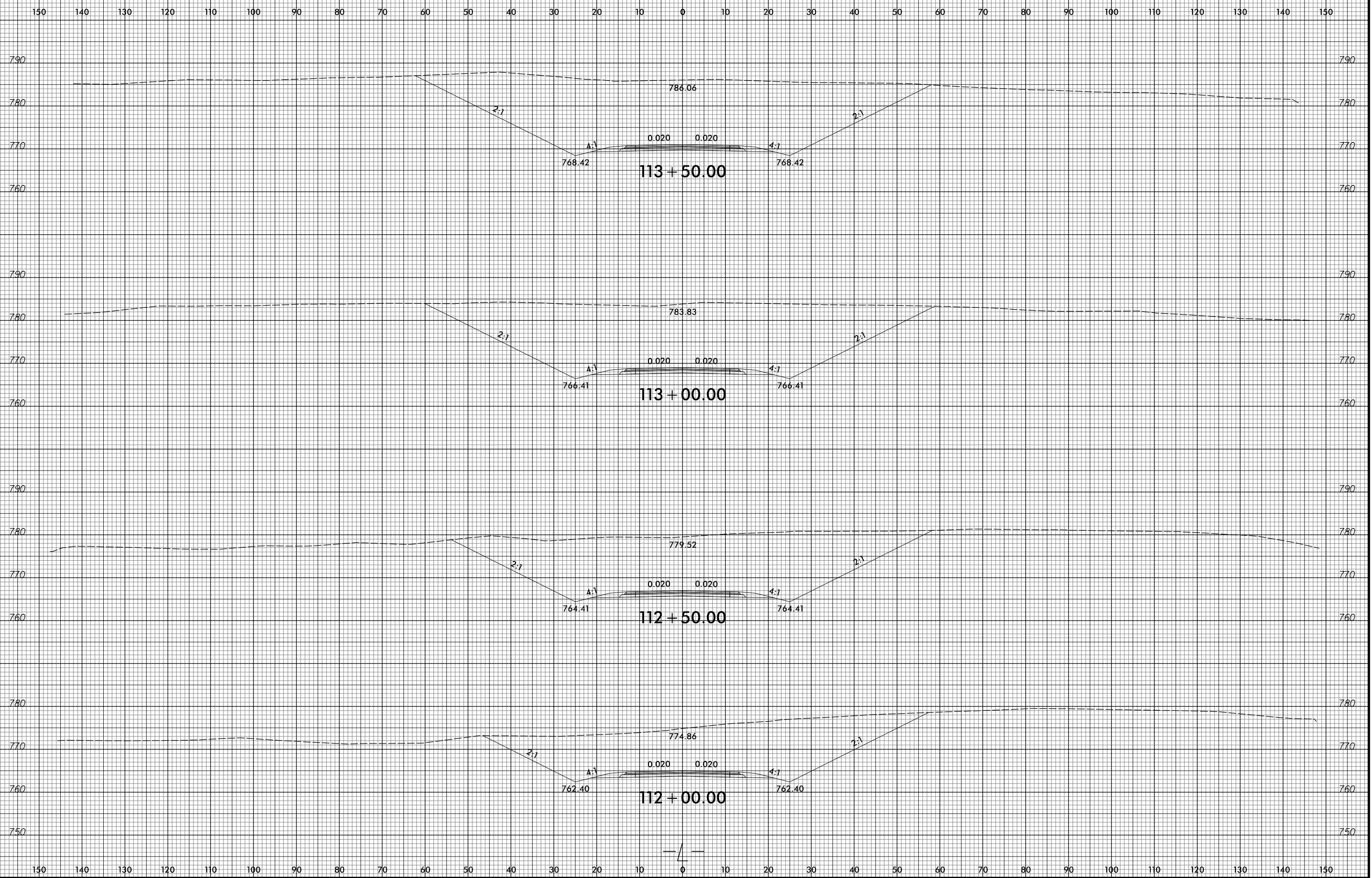
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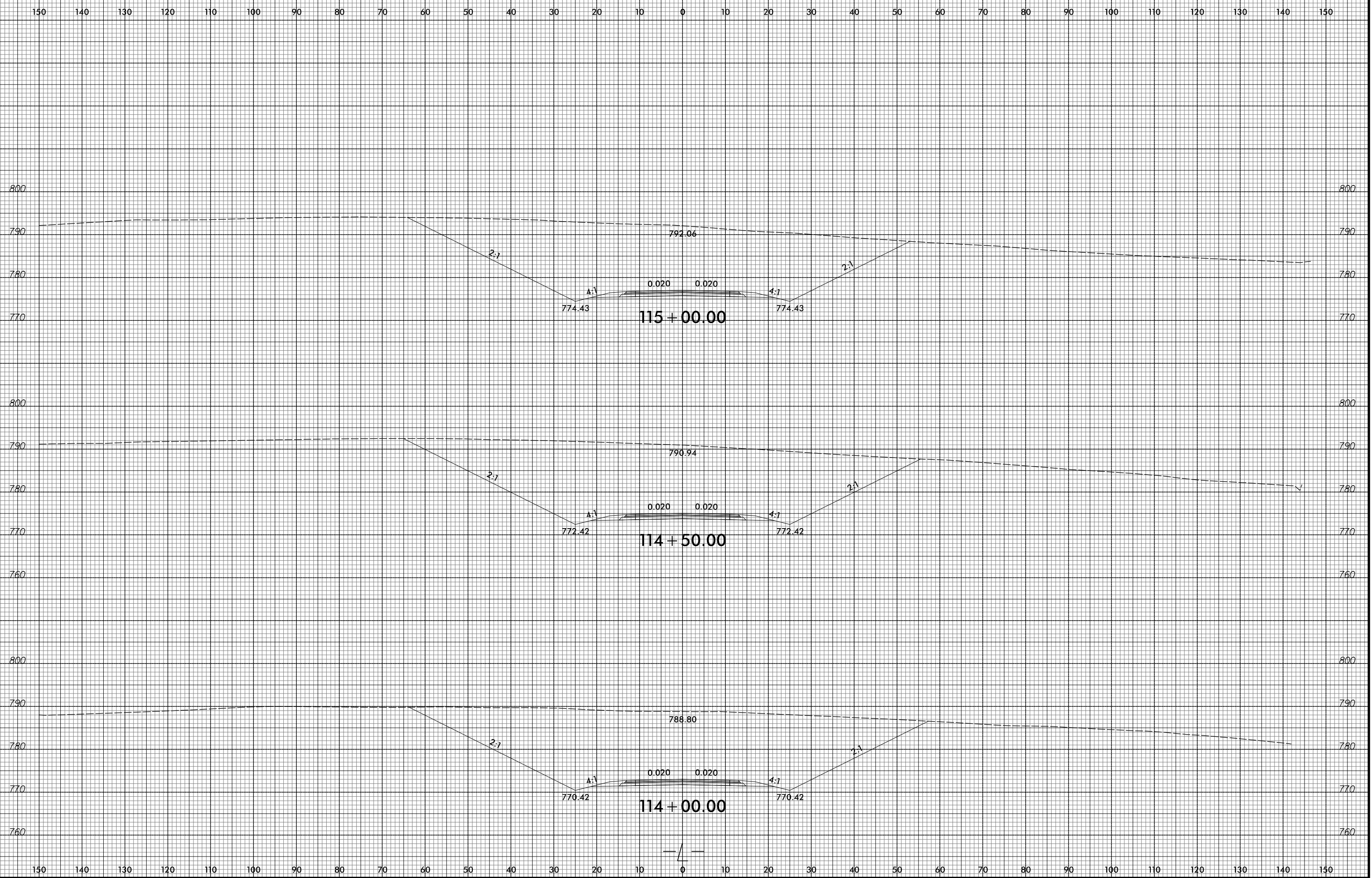
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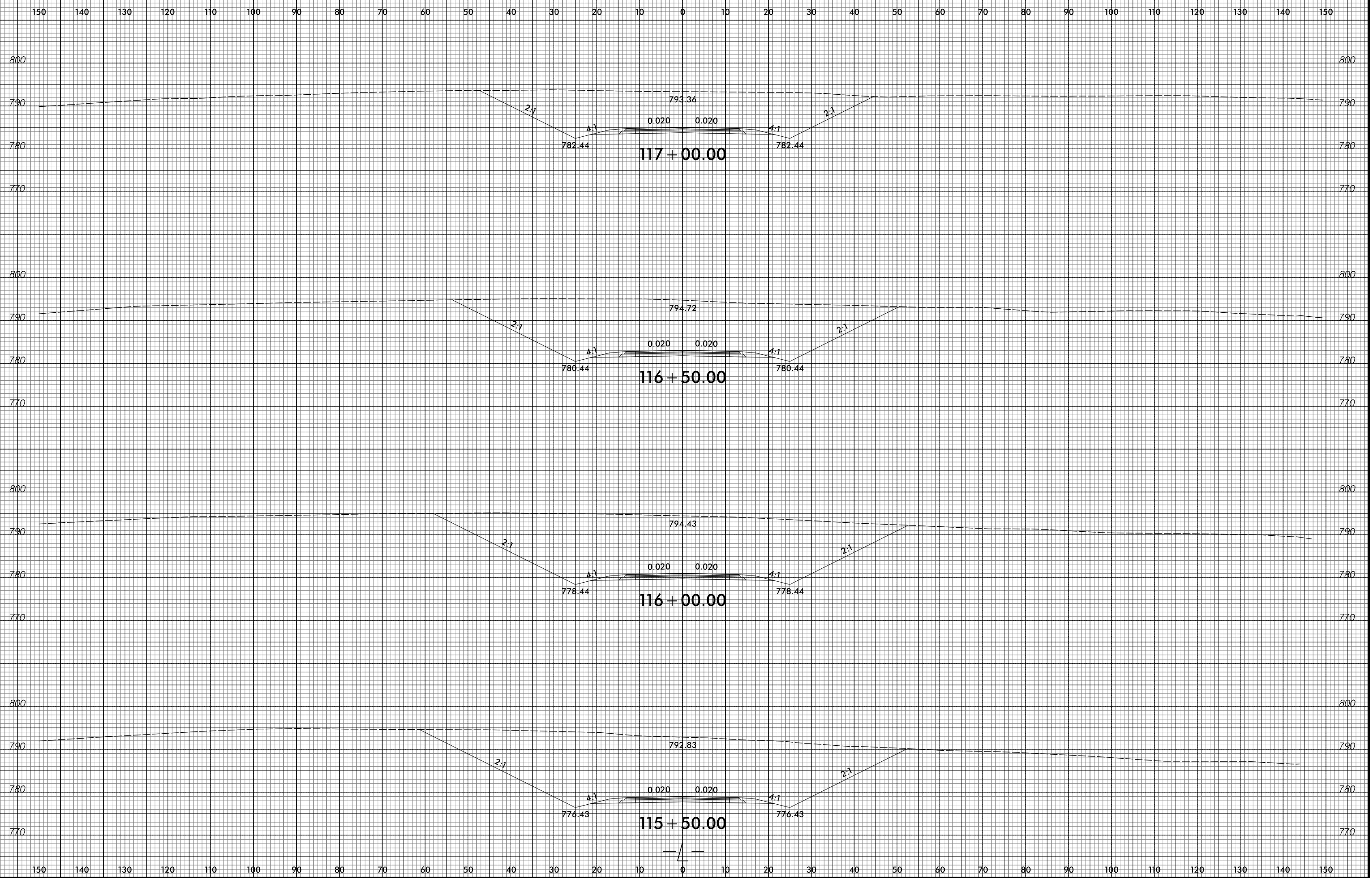


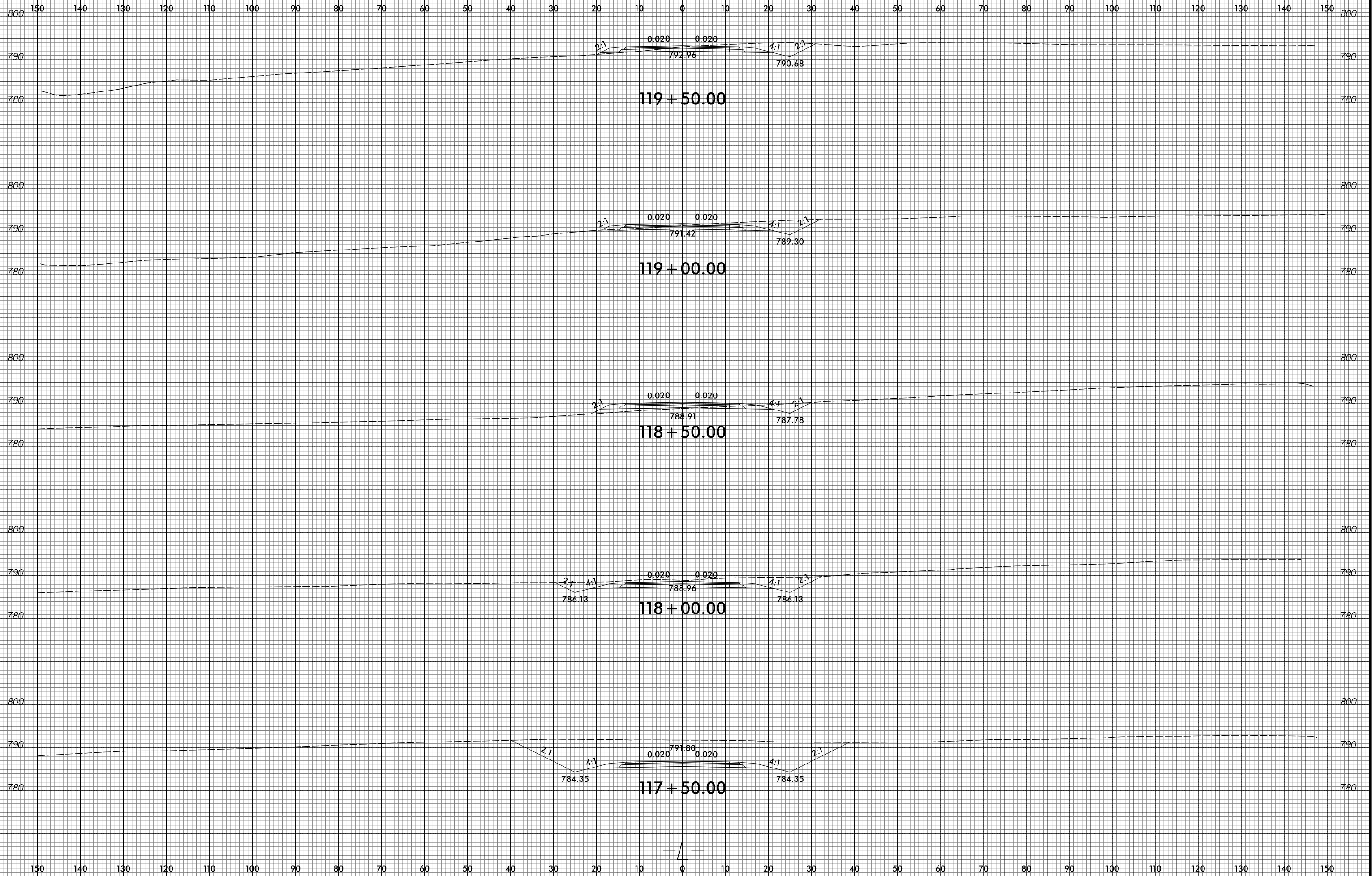
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W-5516	X-54



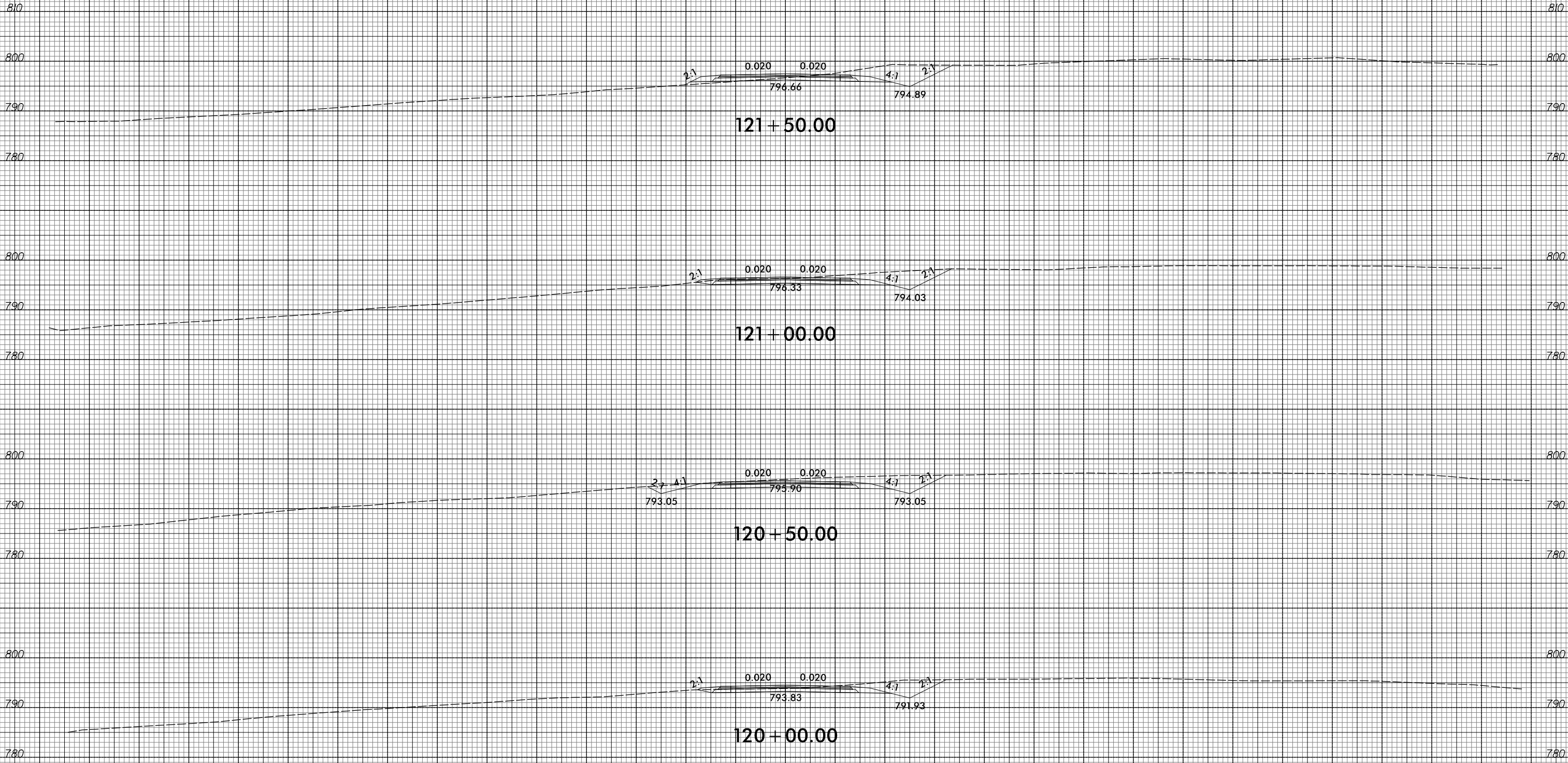
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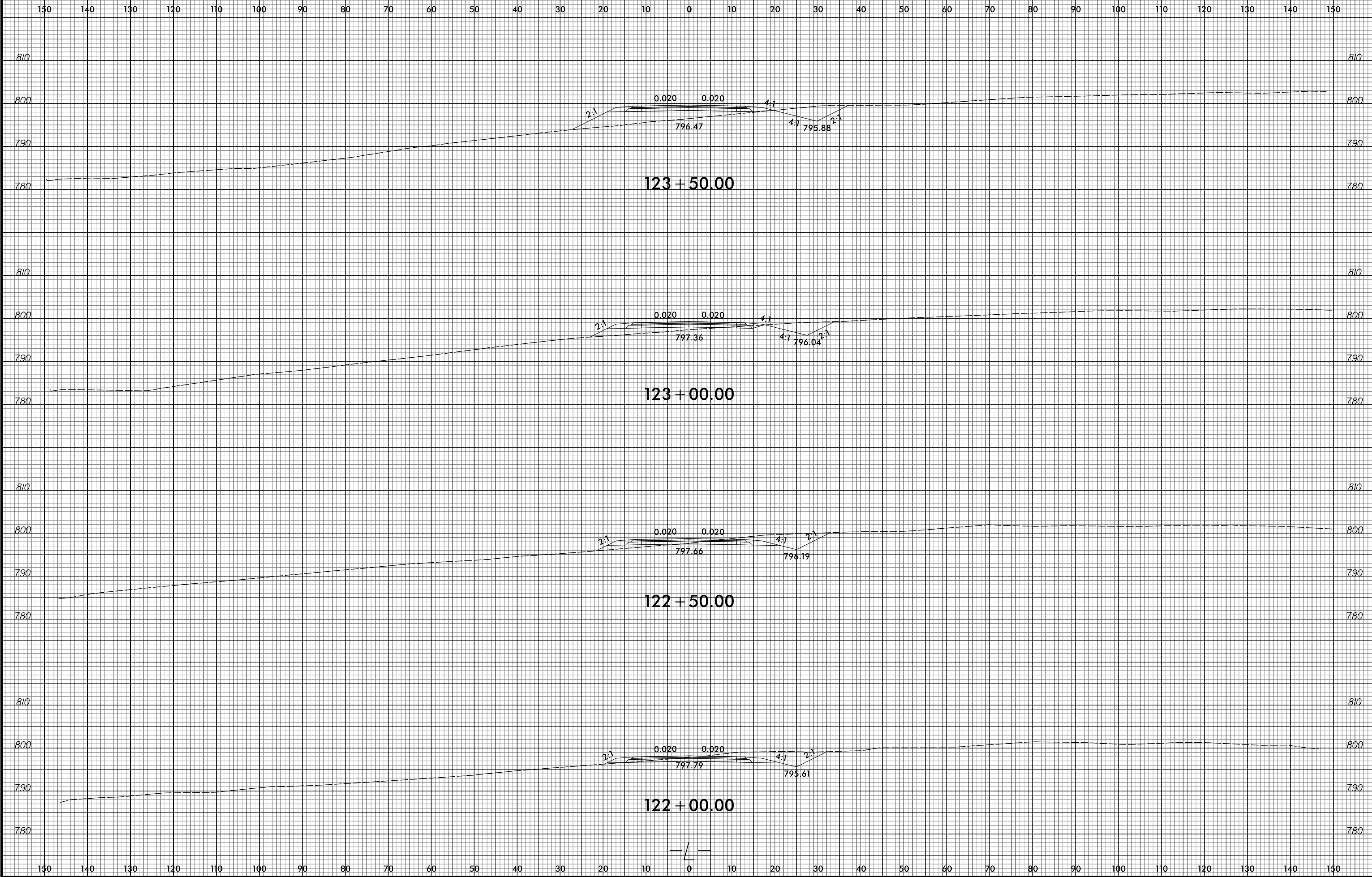


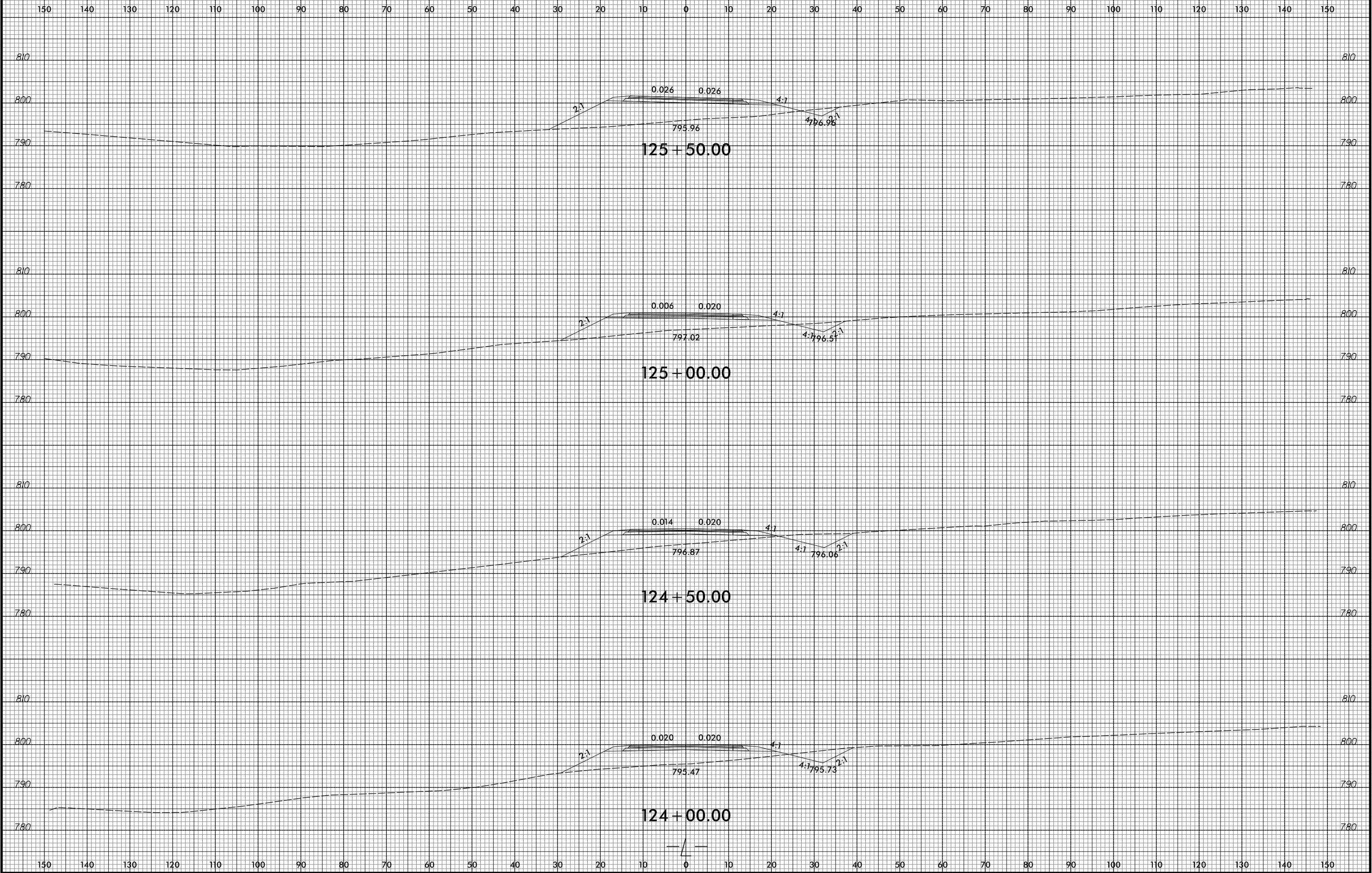


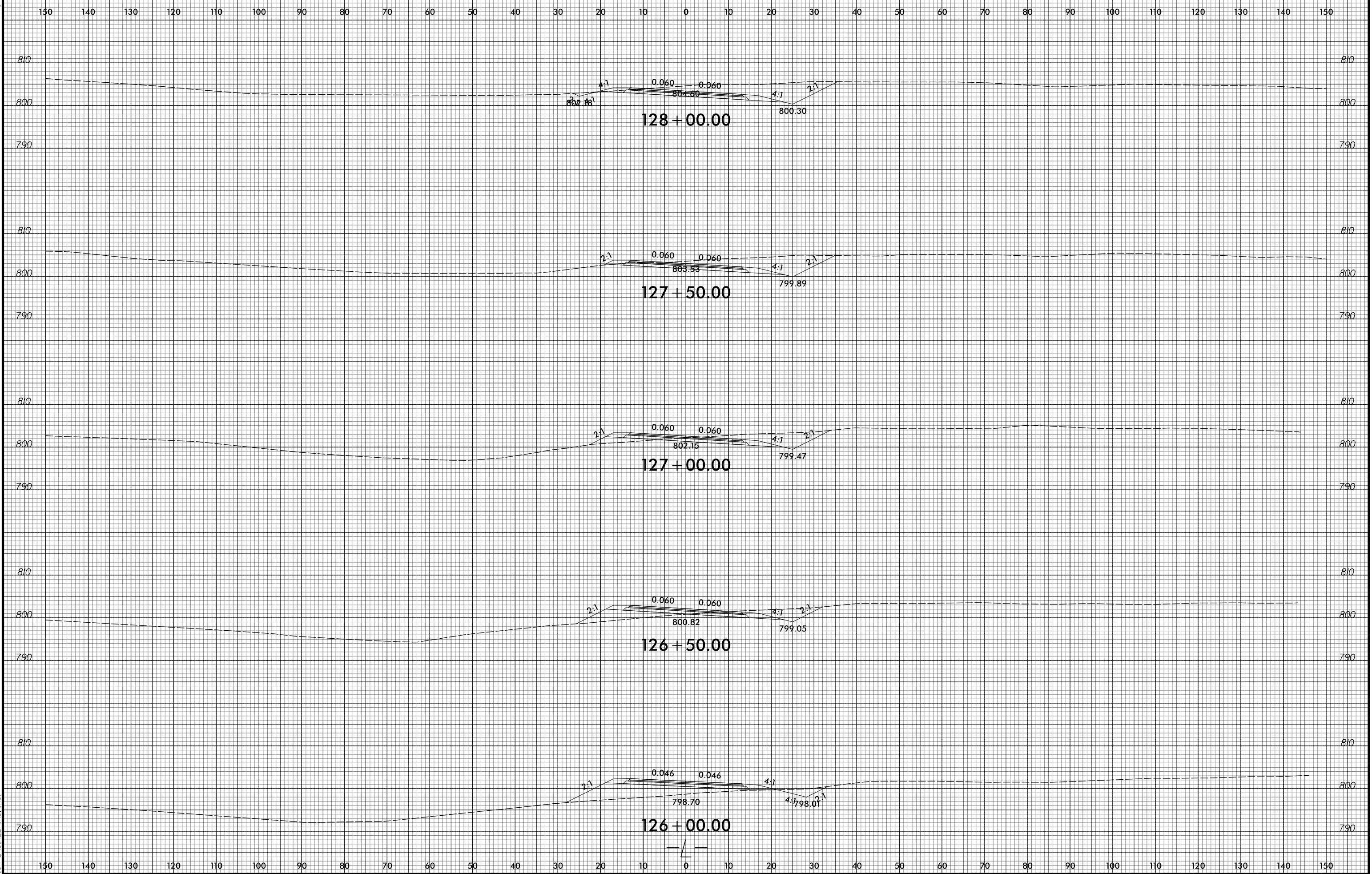
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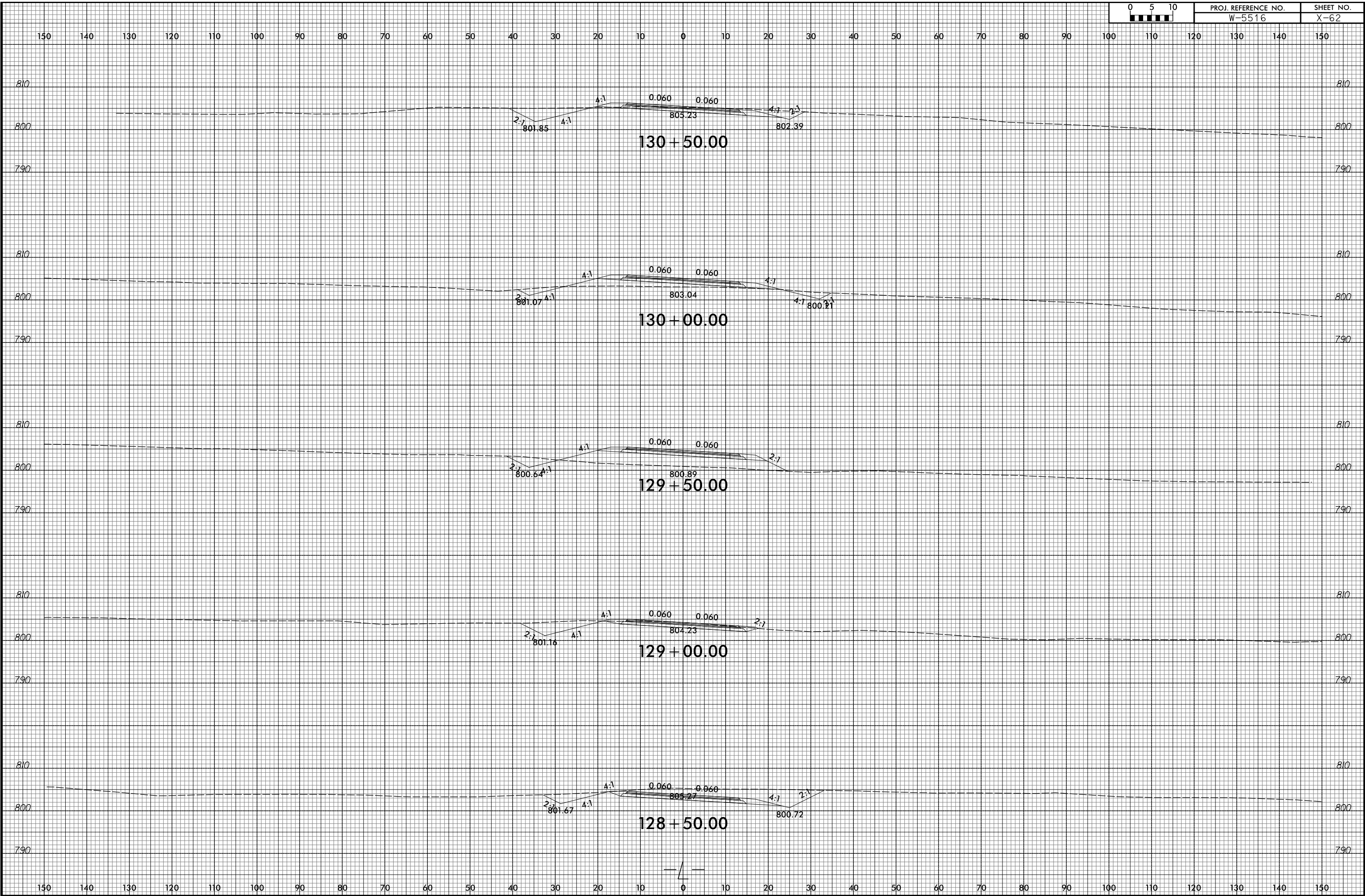


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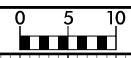




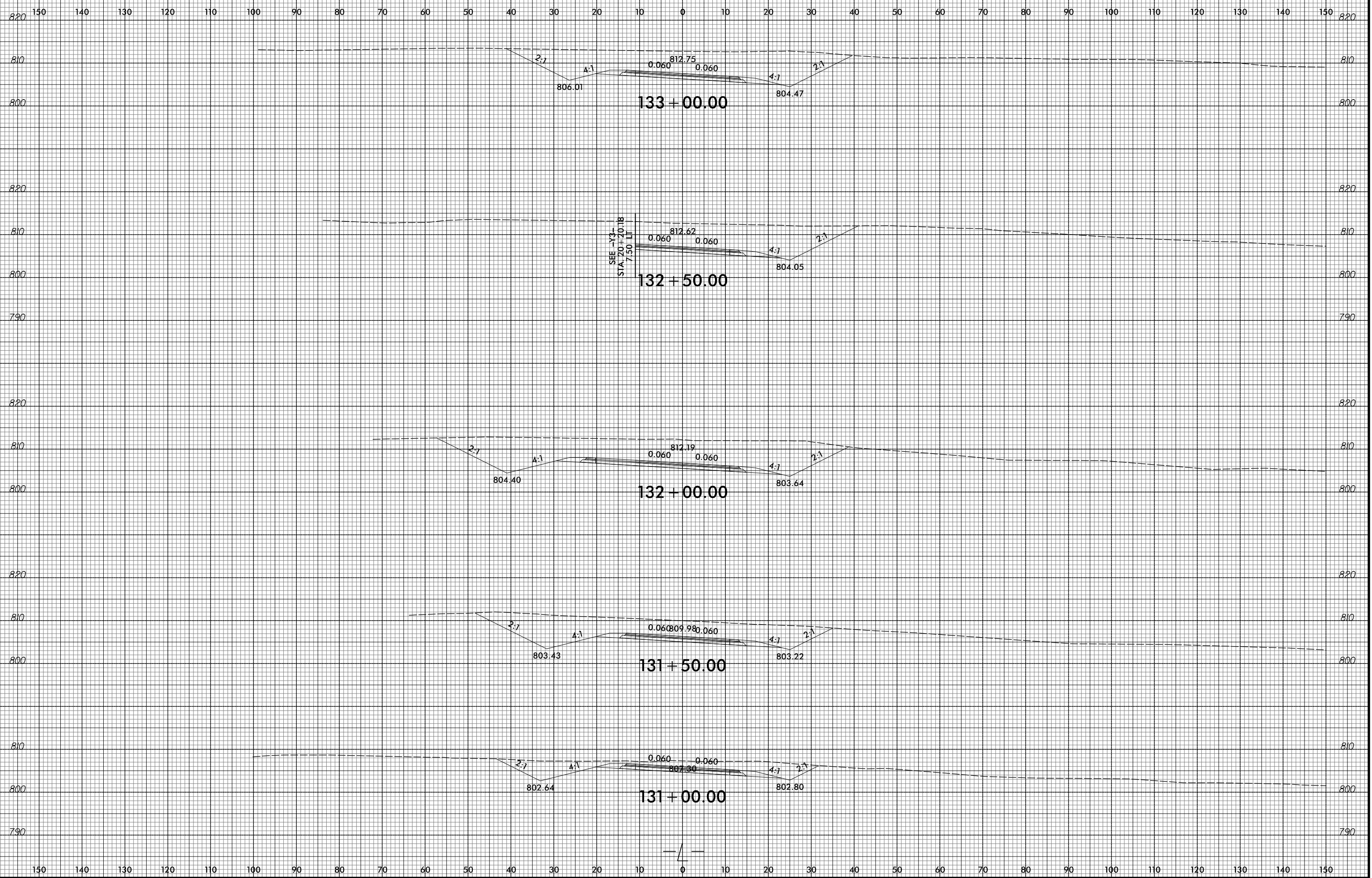




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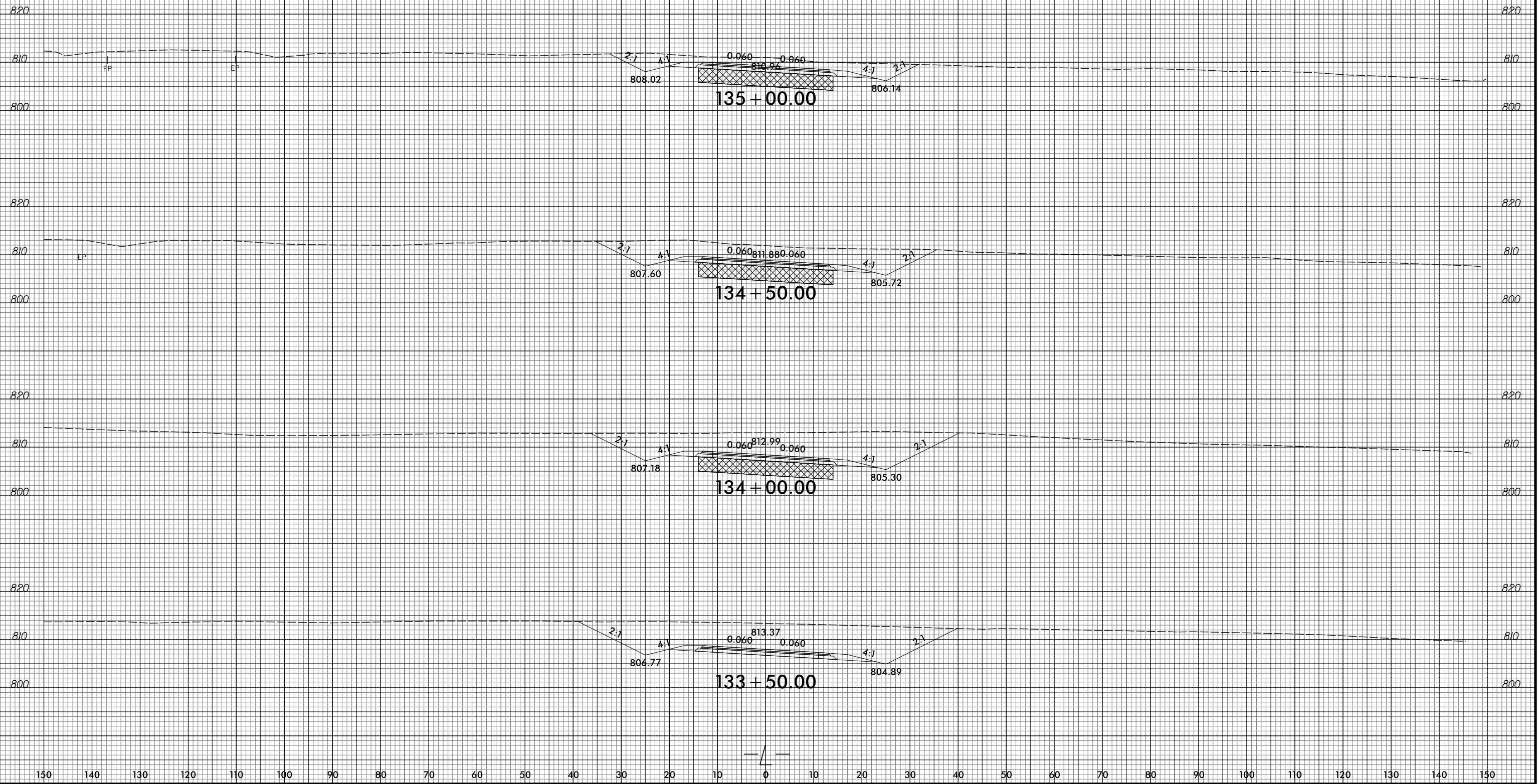


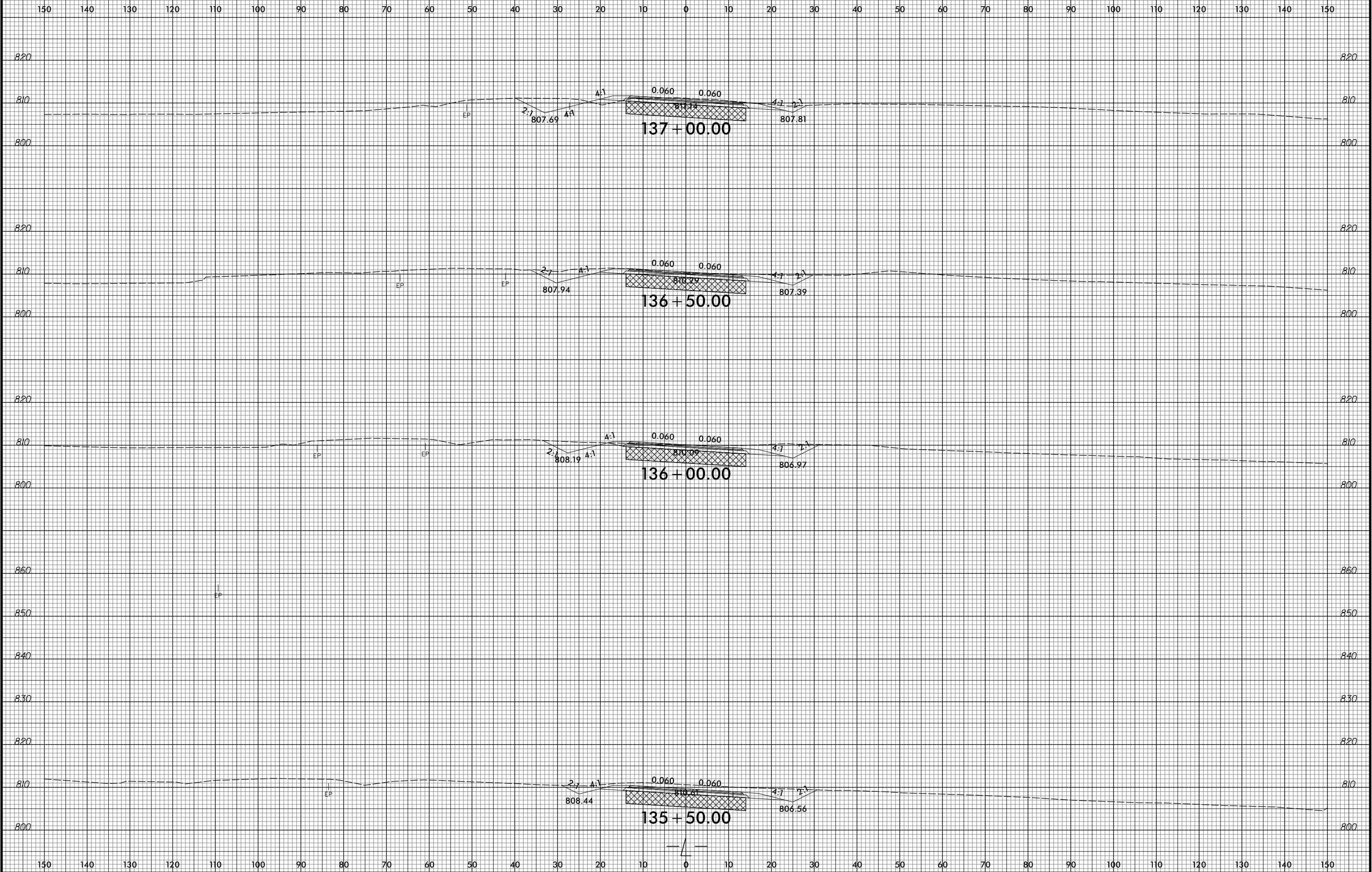
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W-5516	X-63



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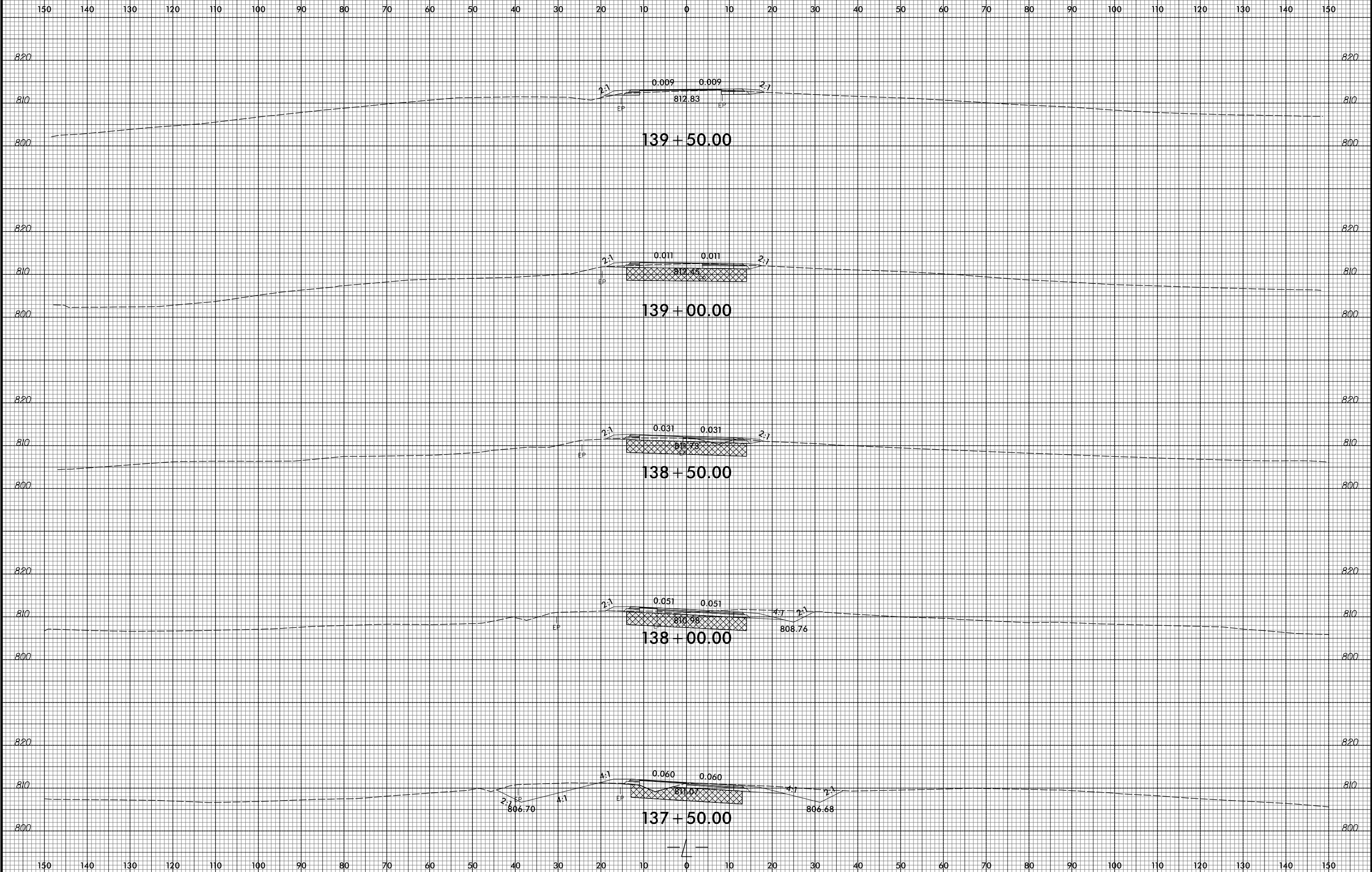


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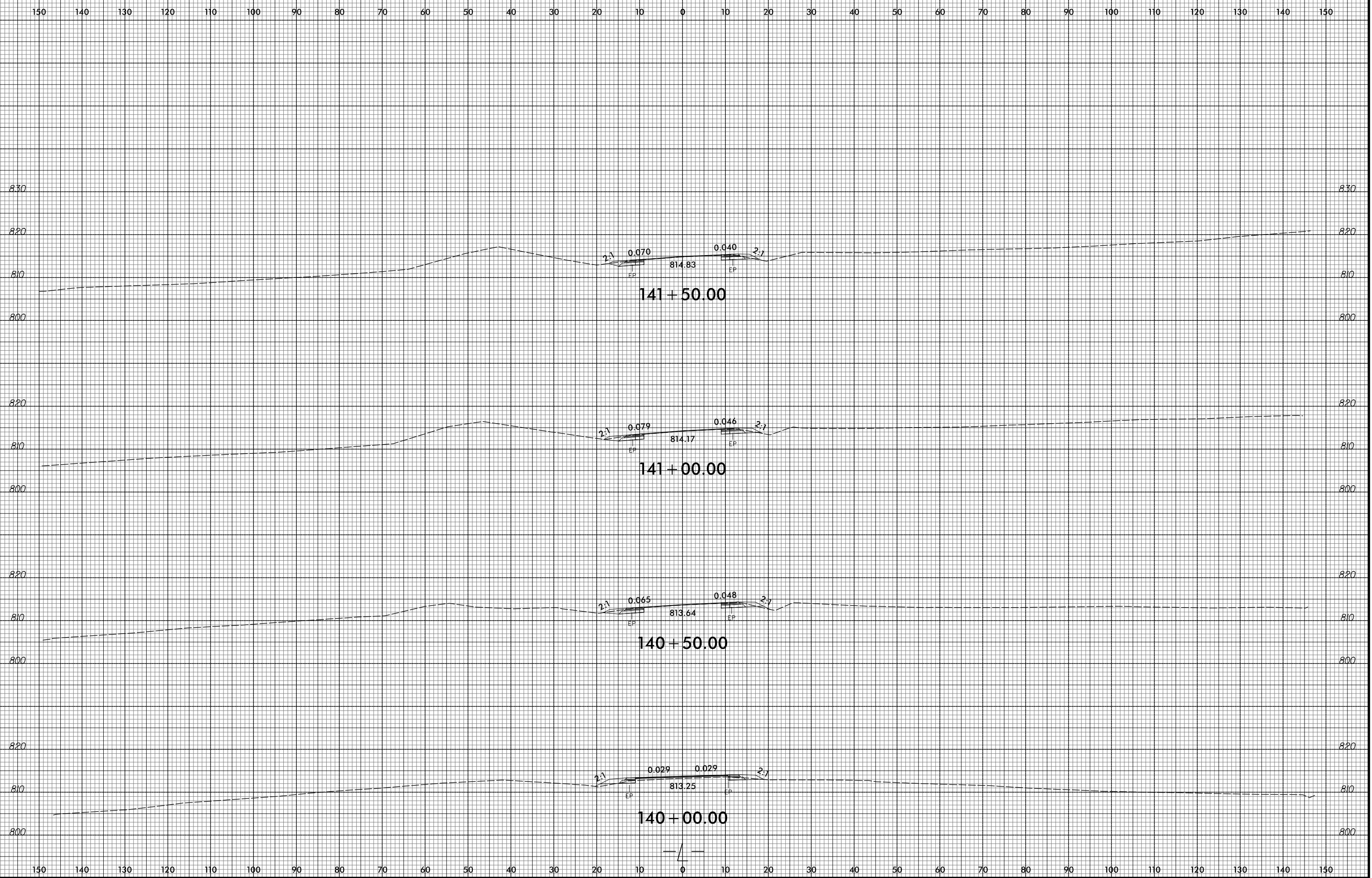
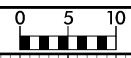
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W-5516

SHEET NO.
X-66



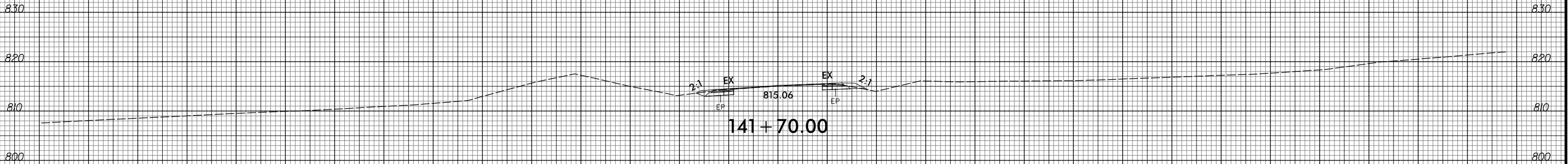
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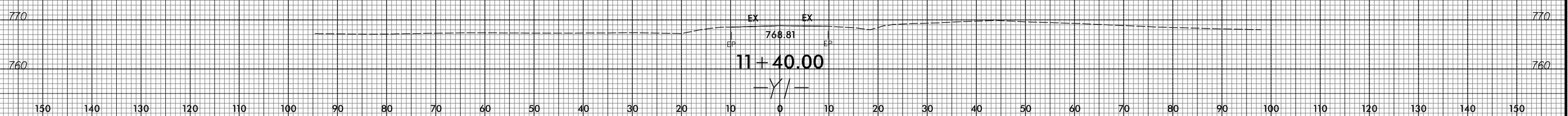
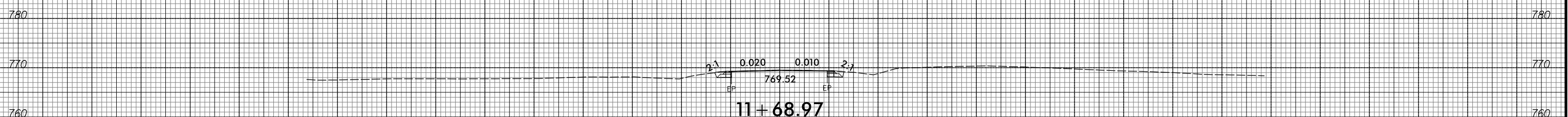
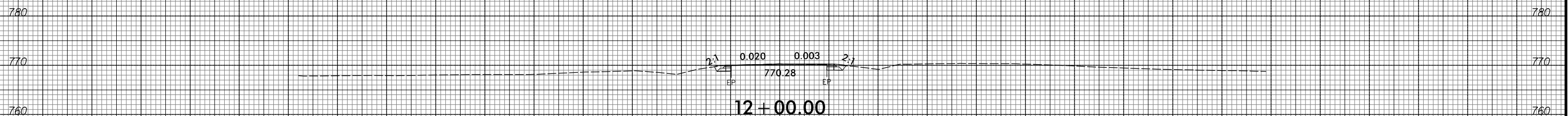
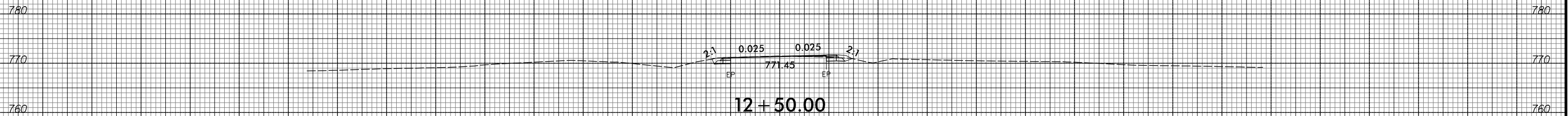
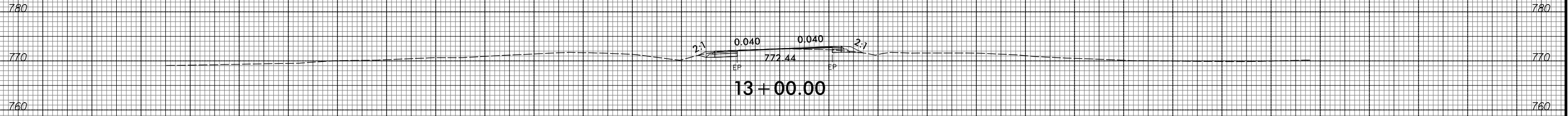


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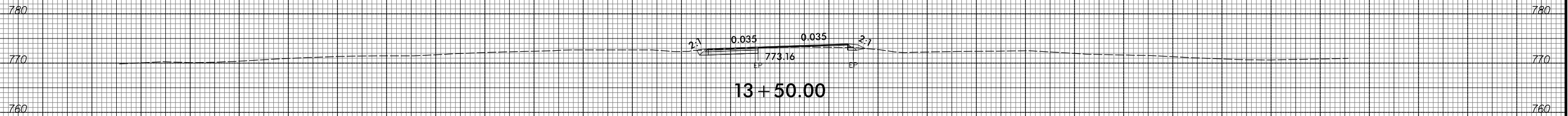
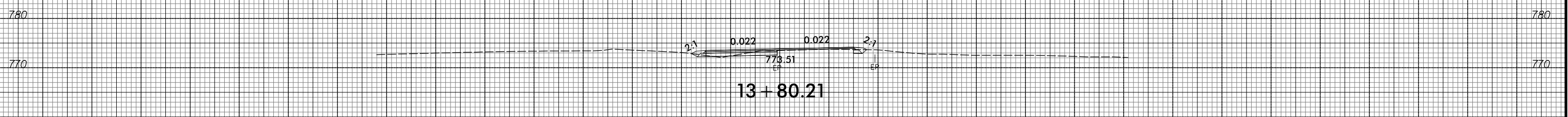
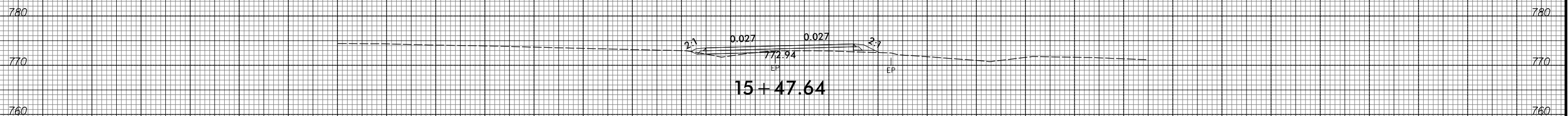
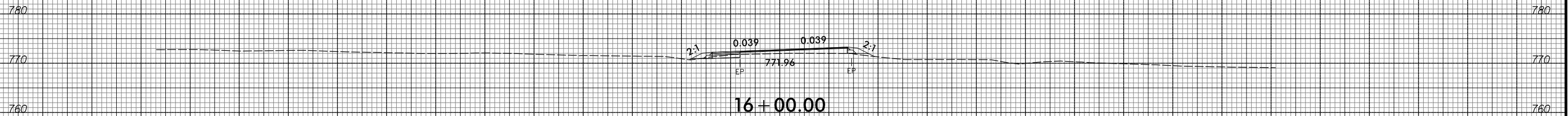
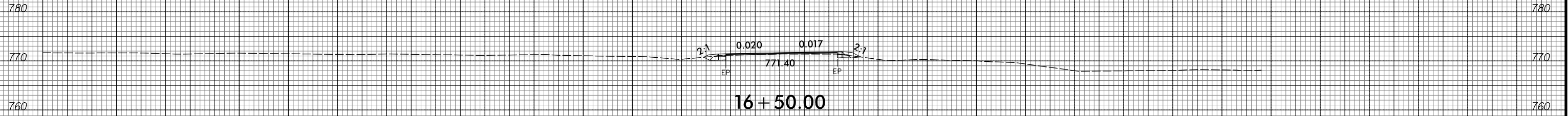
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PROJ. REFERENCE NO.
W-5516

SHEET NO.
X-70

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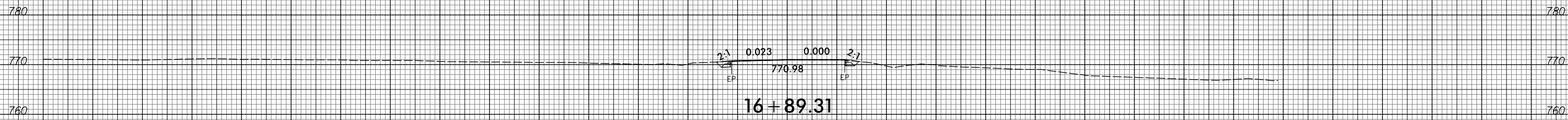
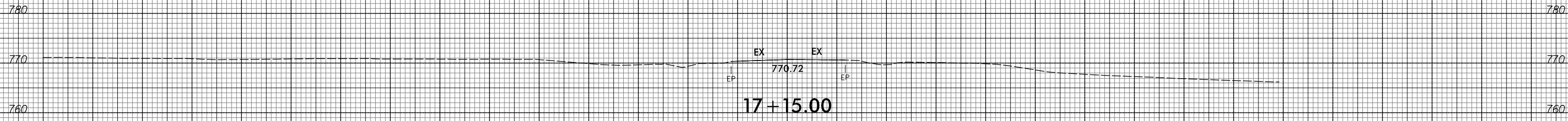


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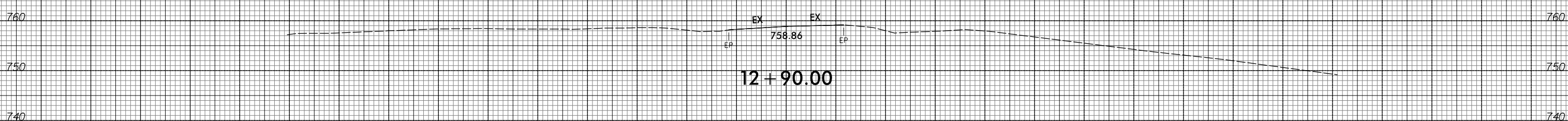
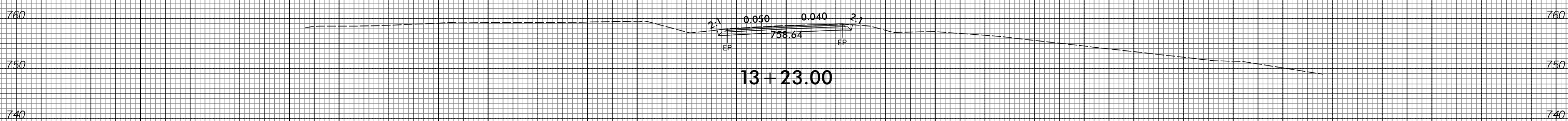
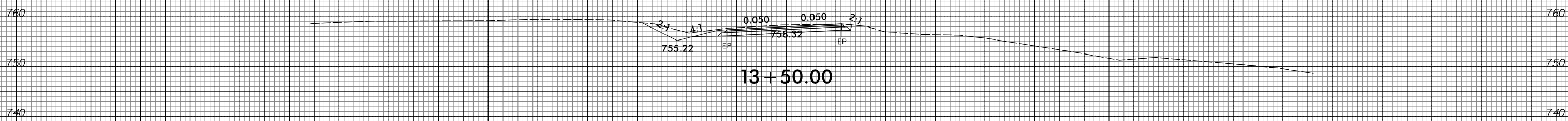
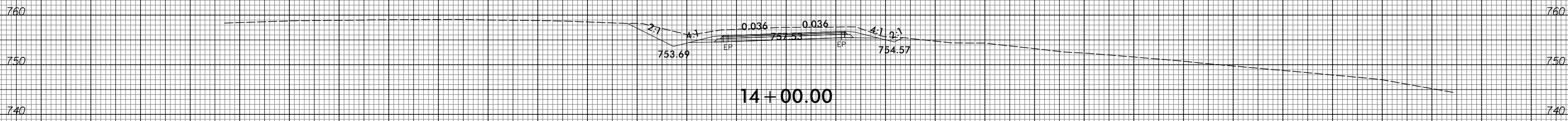
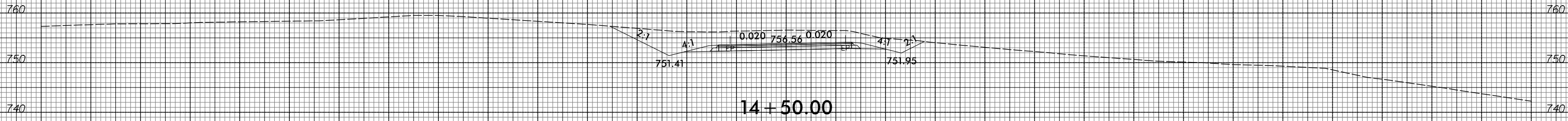
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ICA ENGINEERING, INC.

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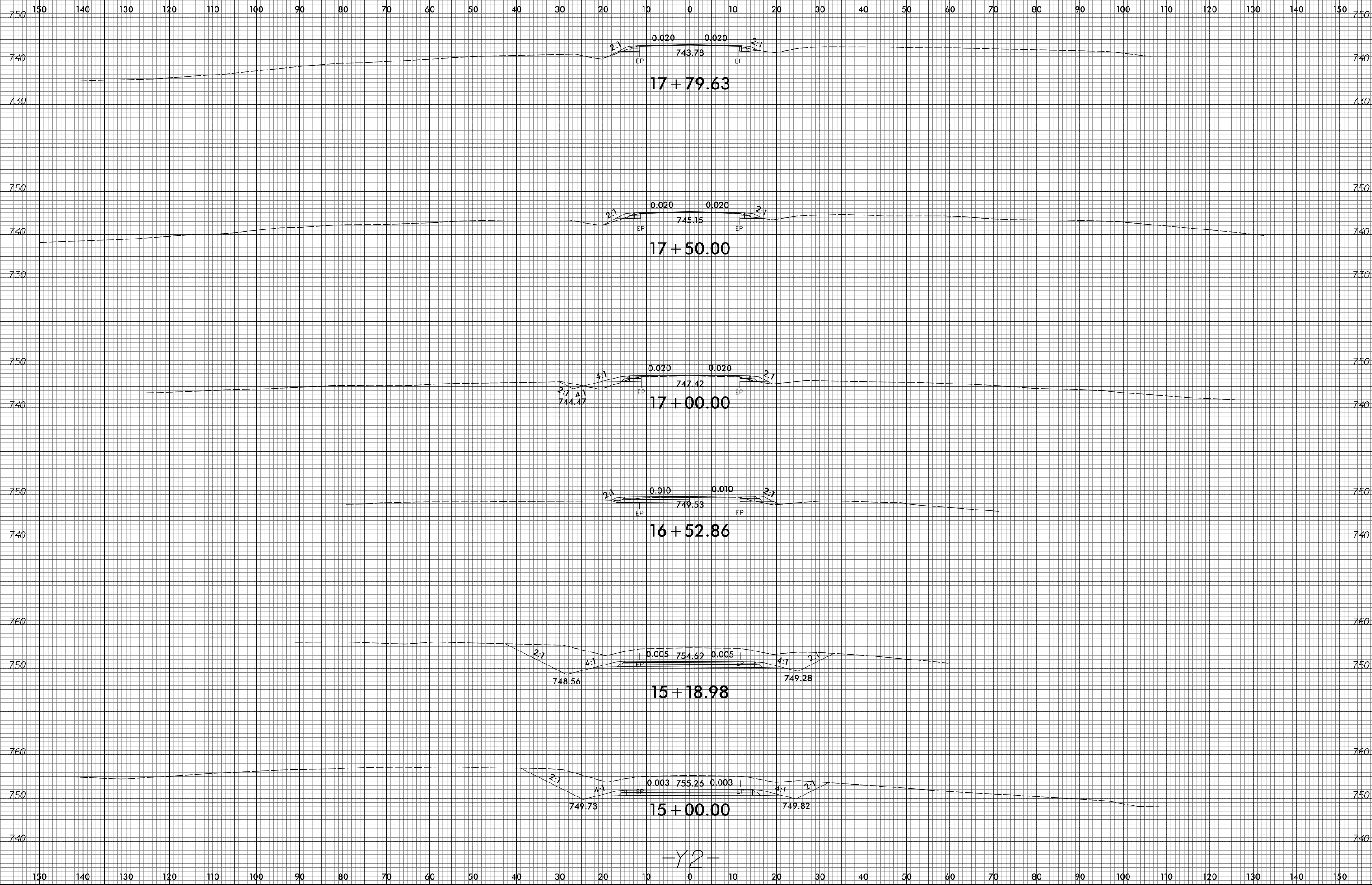
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PROJ. REFERENCE NO.
W-5516

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PROJ. REFERENCE NO.
W-5516

SHEET NO.
X-74

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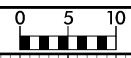
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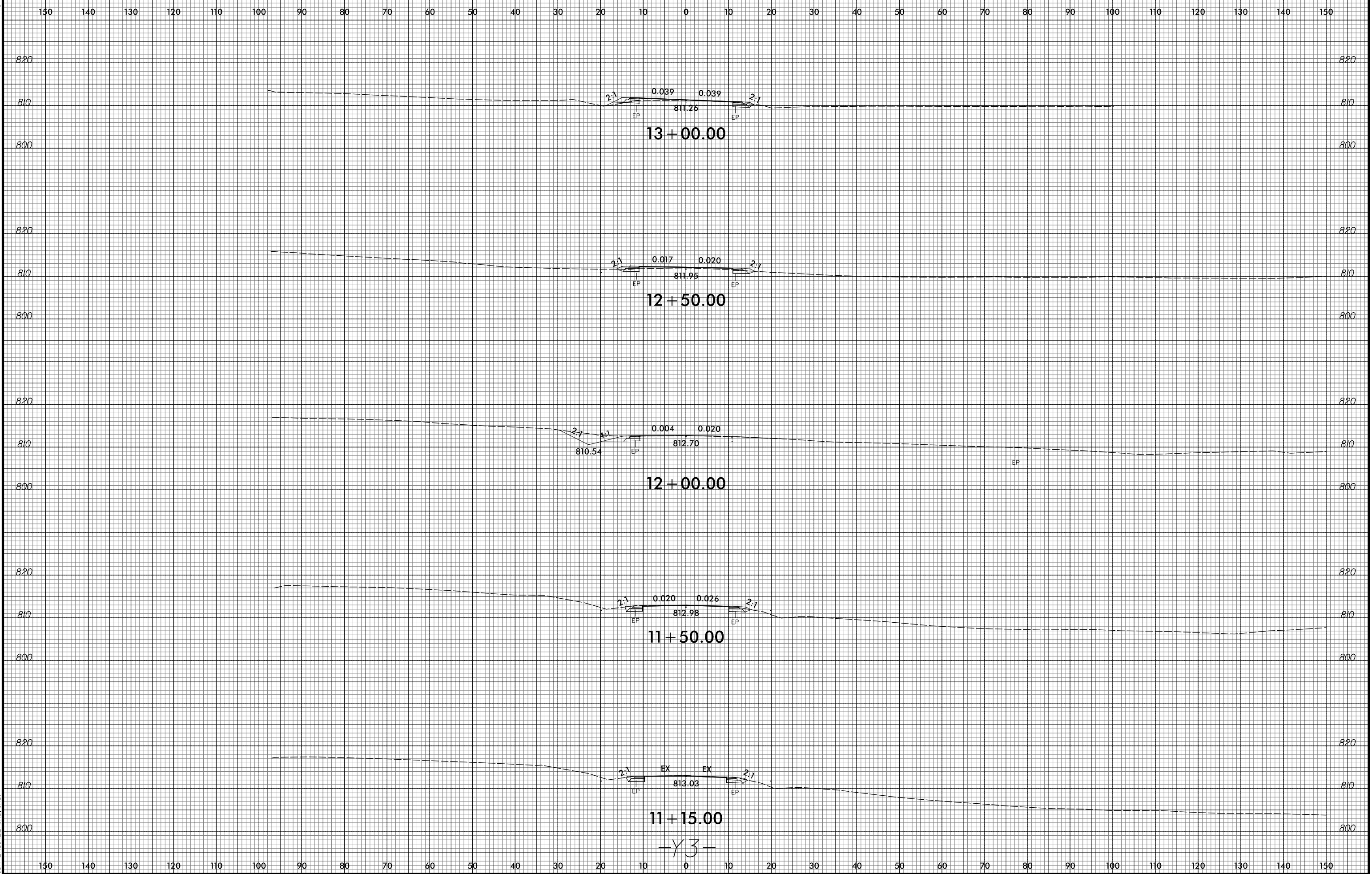
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ICA ENGINEERING, INC.

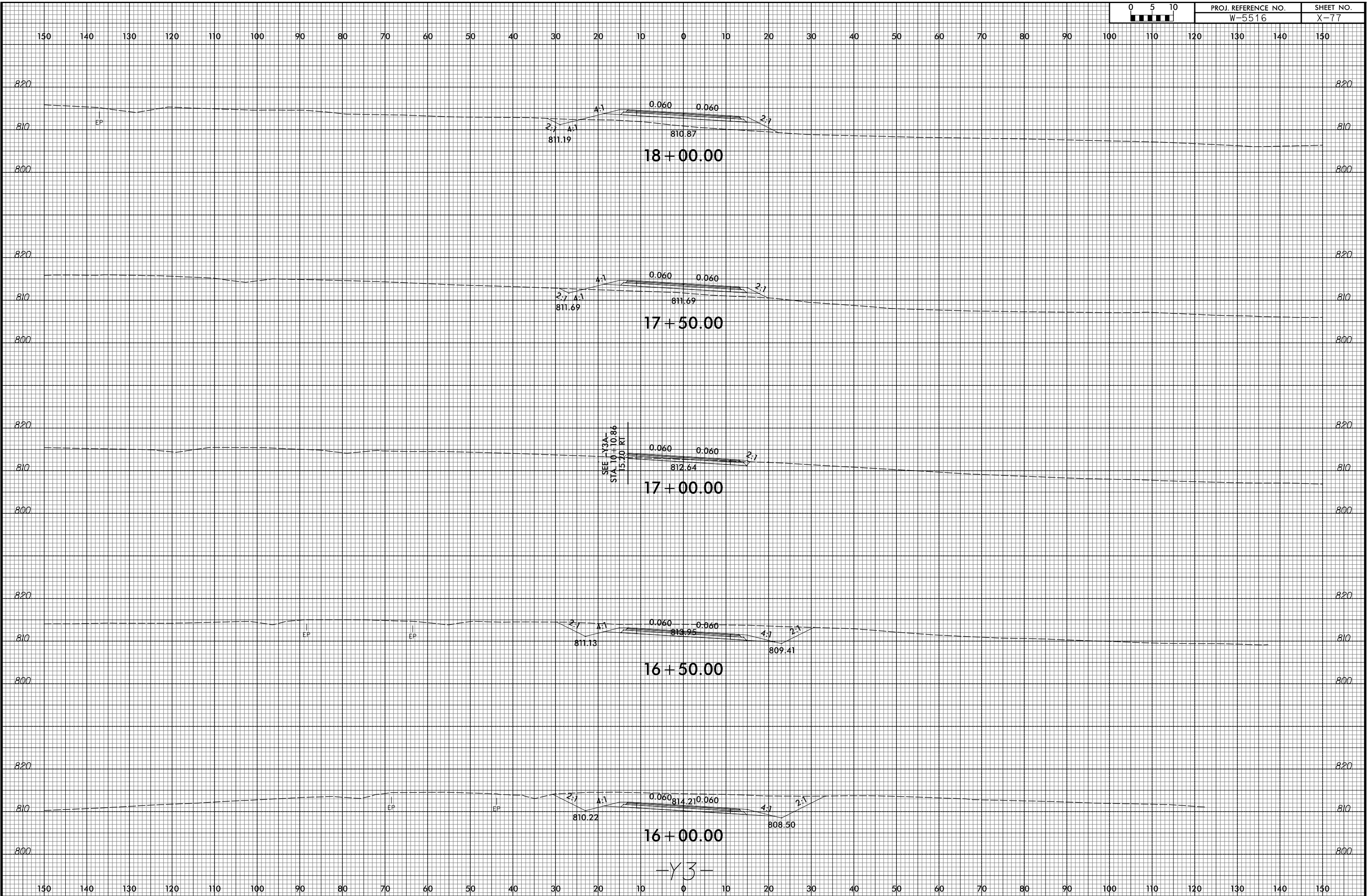
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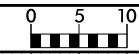
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W-5516	X-75



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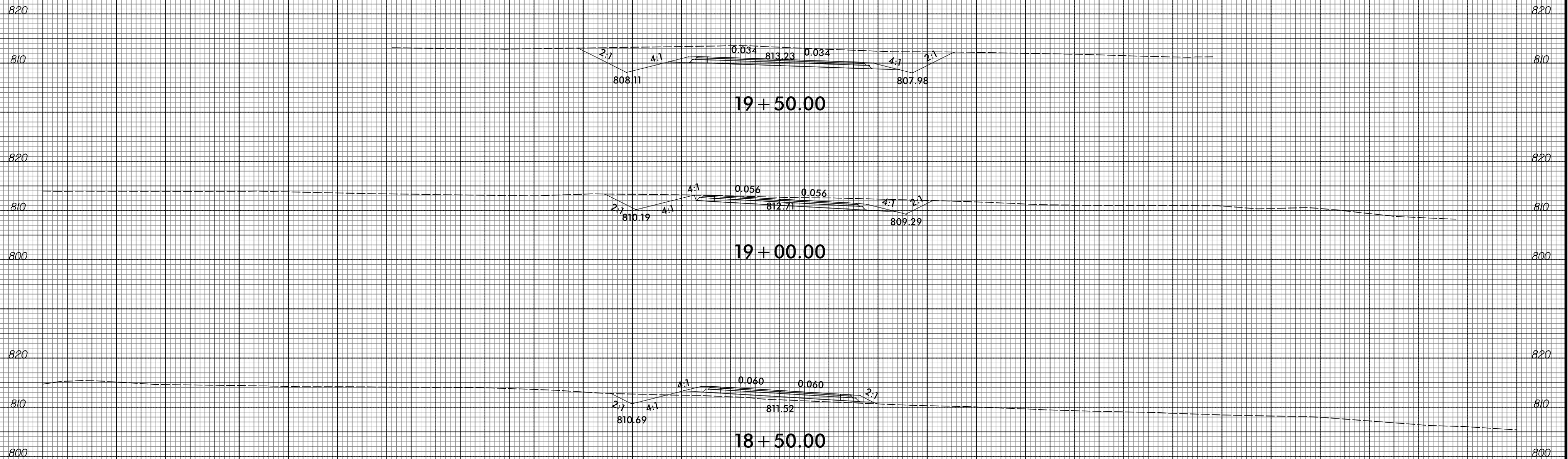
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PROJ. REFERENCE NO.
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SHEET NO.
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19+50.00

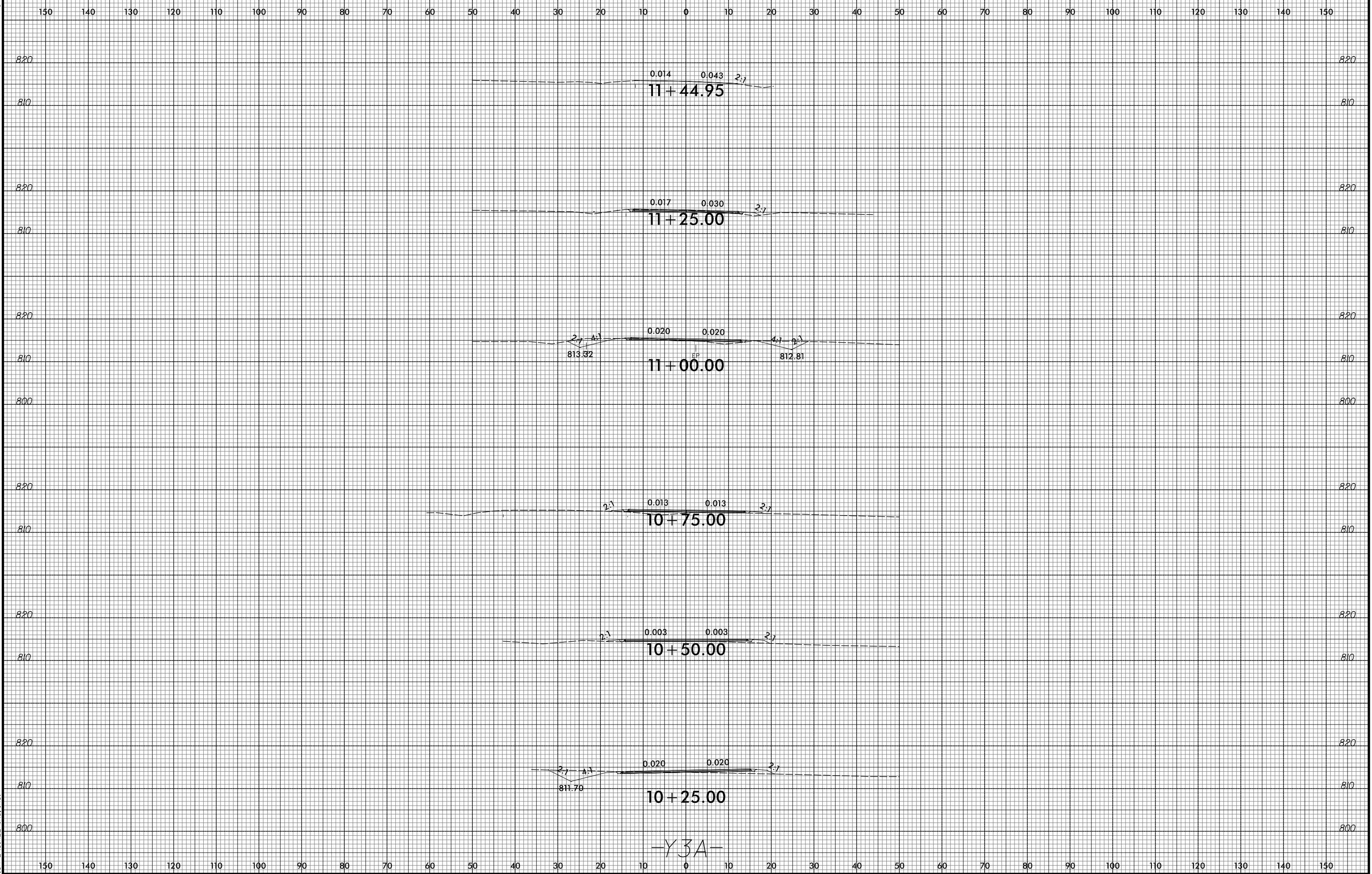
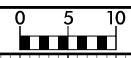
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8/23/99



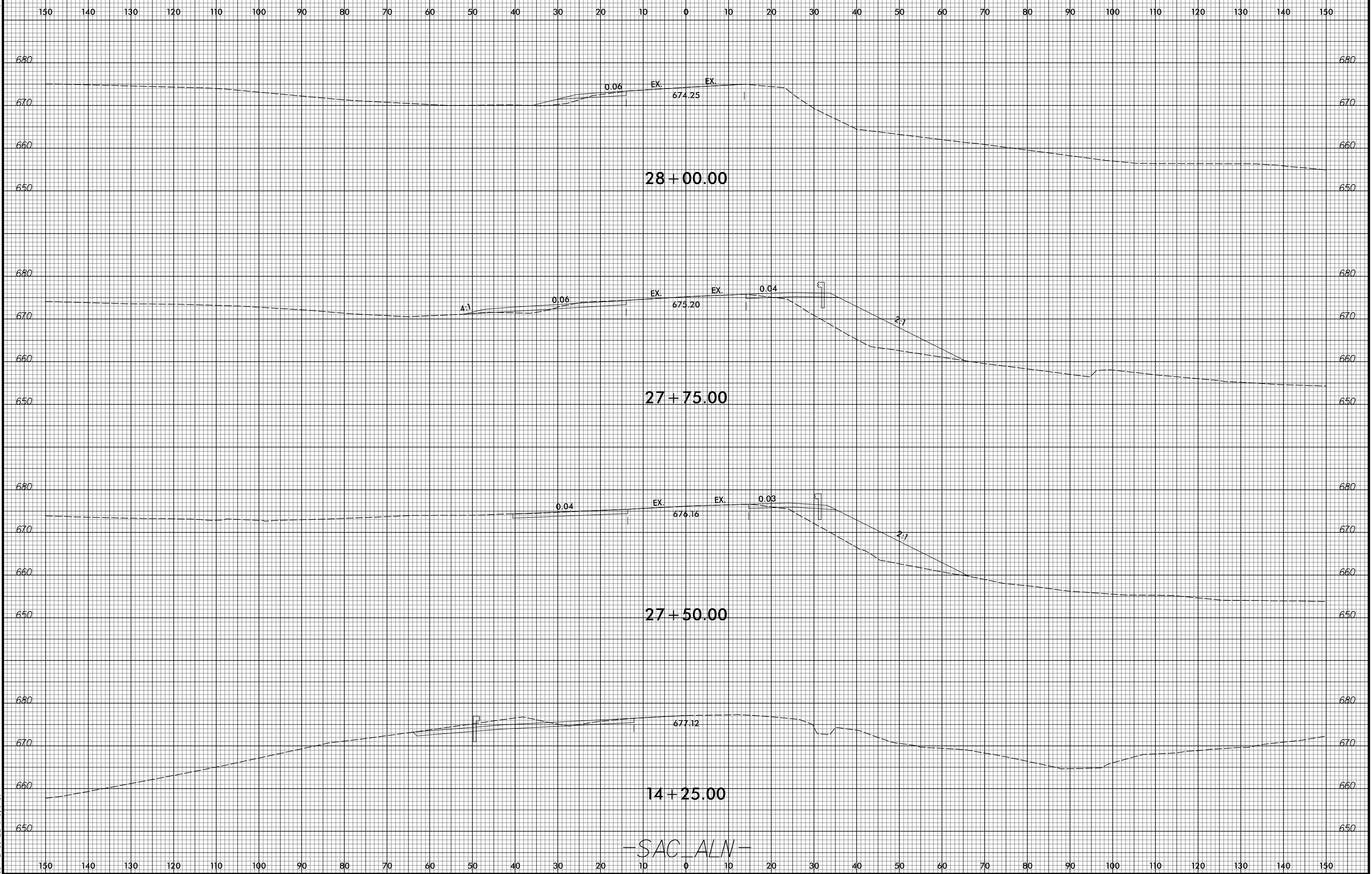
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ICA ENGINEERING, INC.

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
W-5516	X-80



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7/2/2015
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ICA ENGINEERING, INC.