

R-3421A

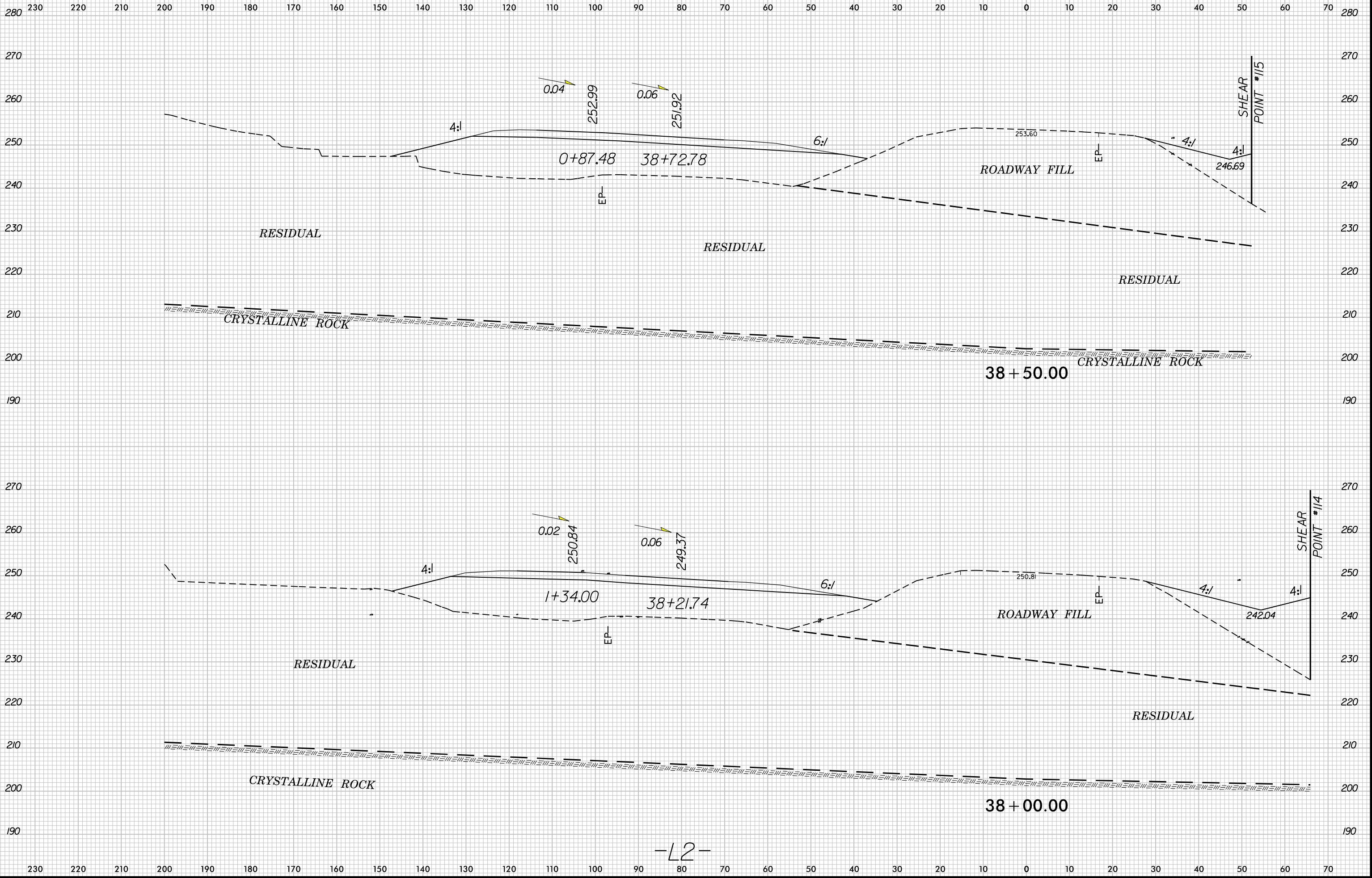
*NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT*
SUBSURFACE INVESTIGATION
INVENTORY
SECTION 4

REFERENCE: R-3421A

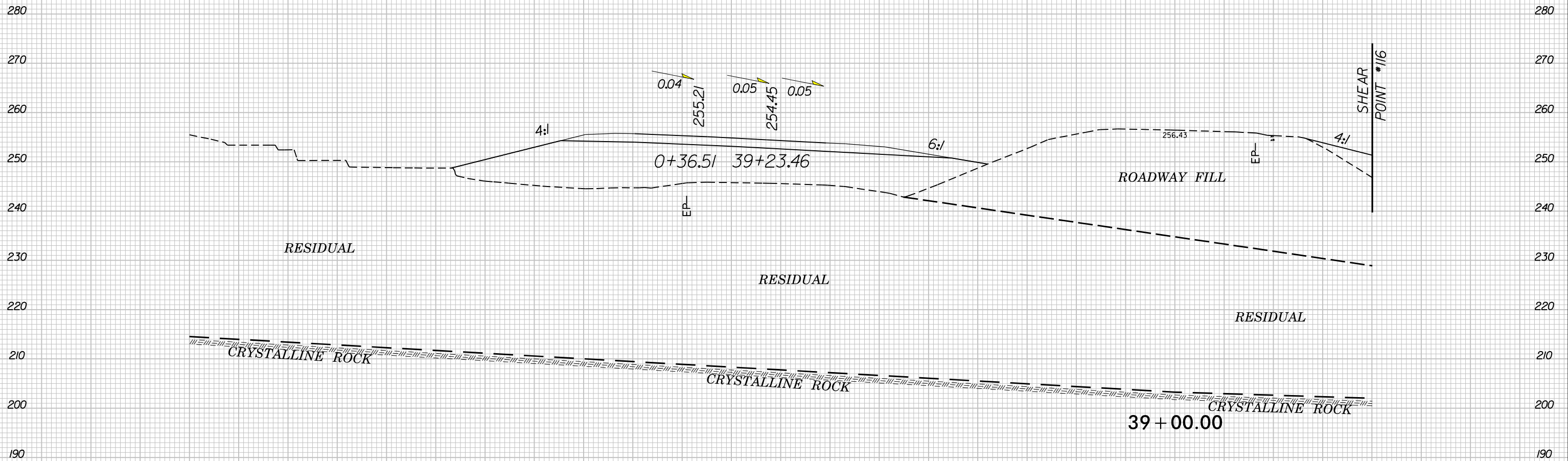
PROJECT: 34542

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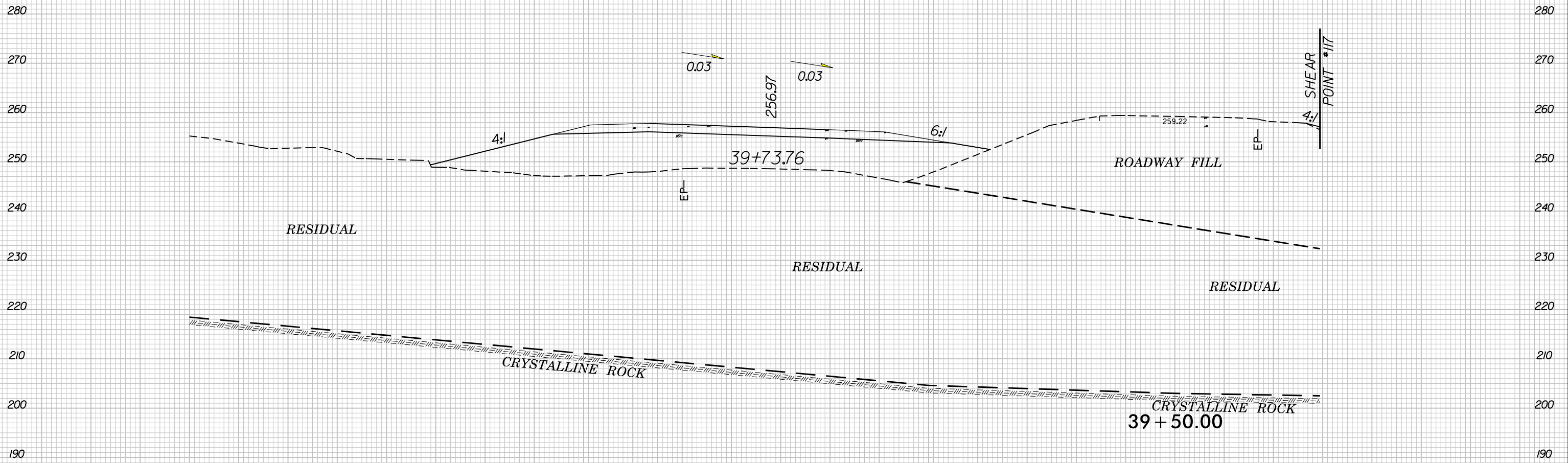
1/8/2016
DATE



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RESIDUAL

RESIDUAL

RESIDUAL

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CRYSTALLINE ROCK

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EP

EP

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0.03

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6:1

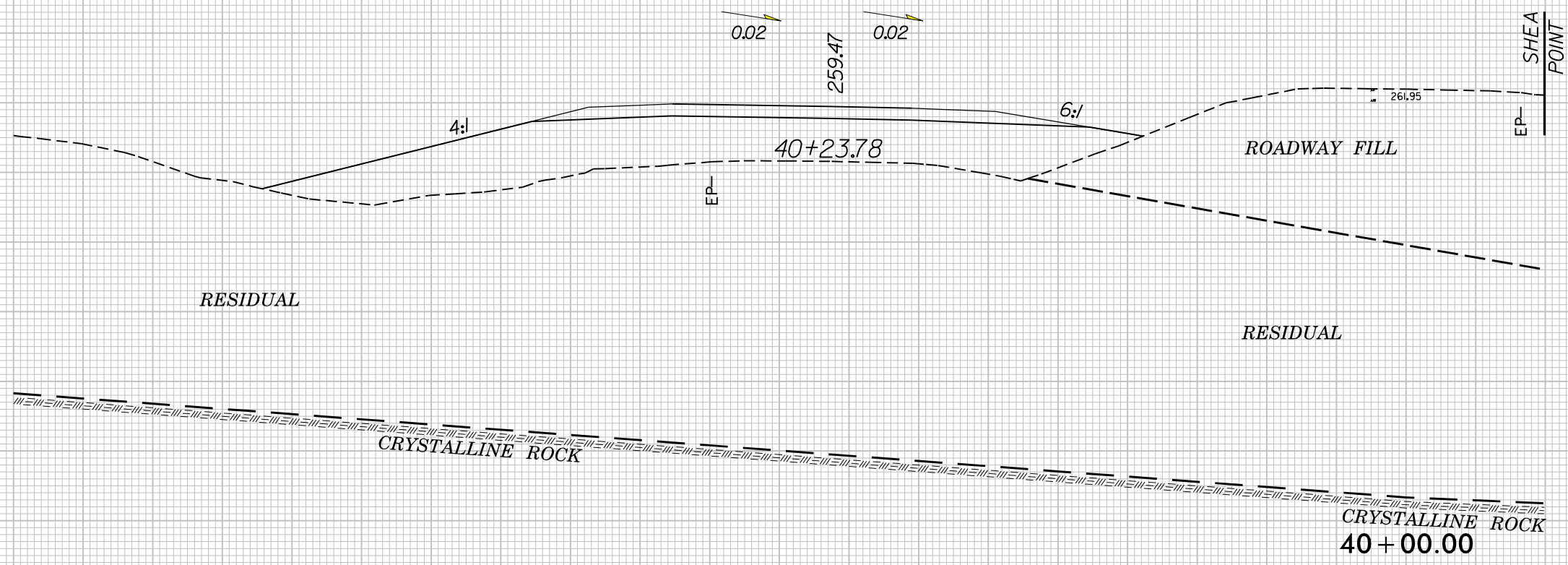
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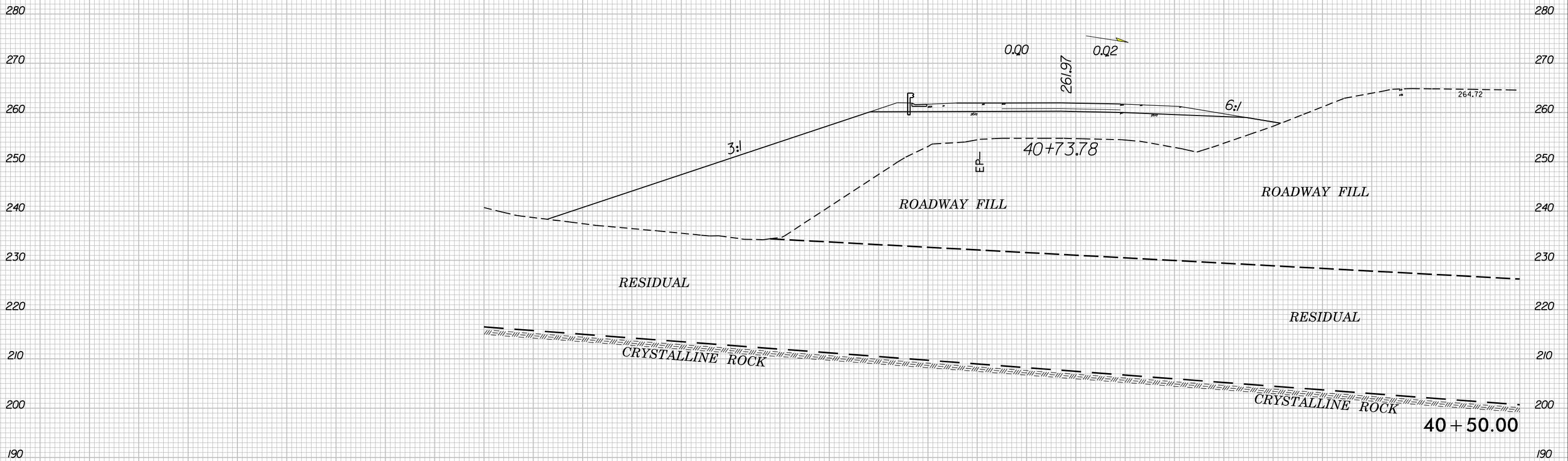
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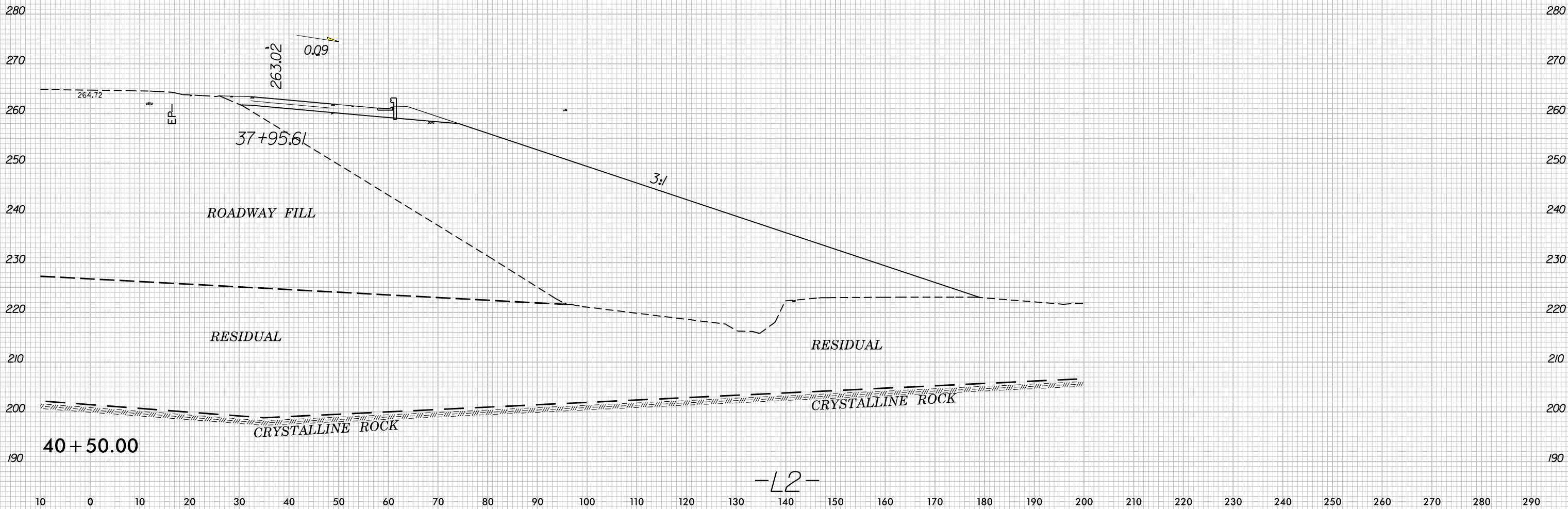
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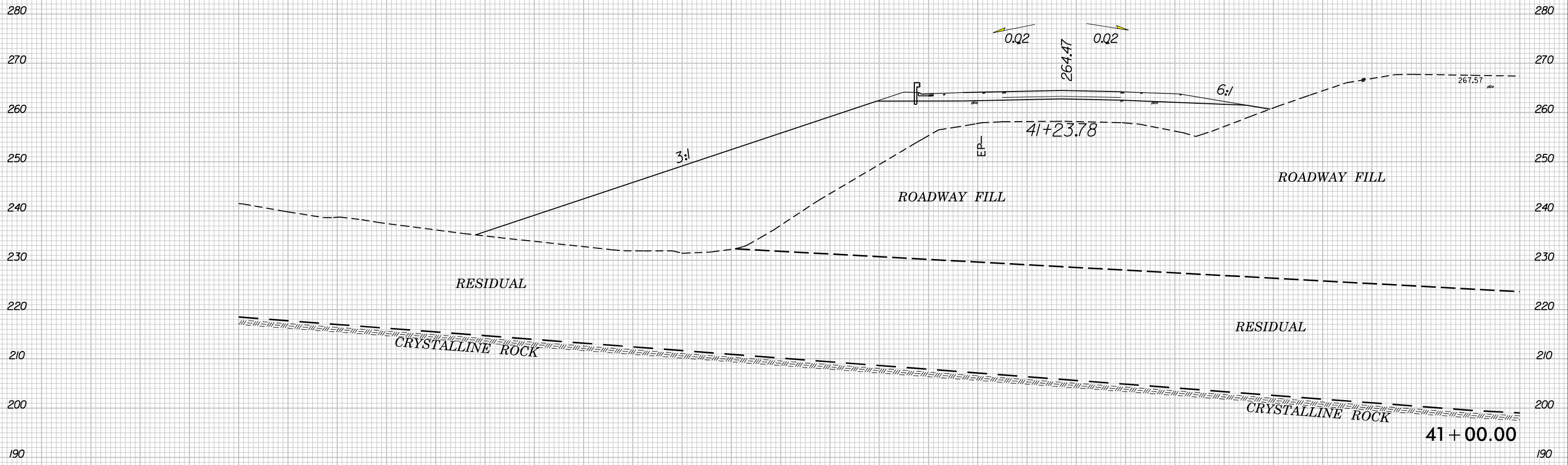
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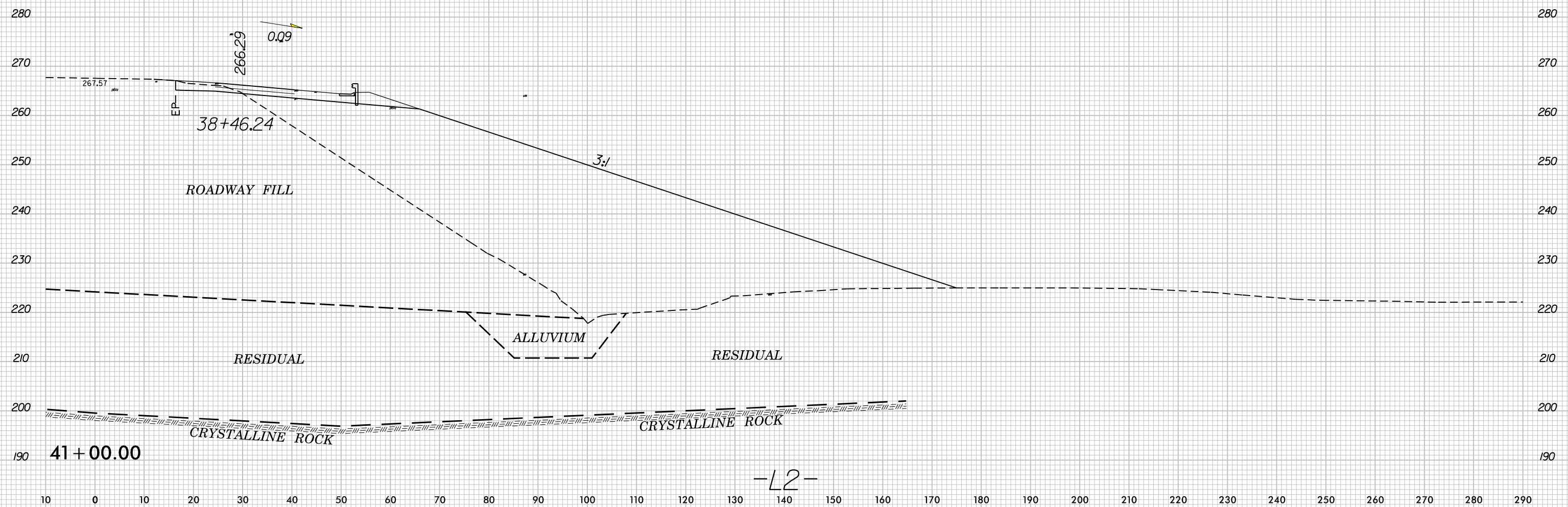
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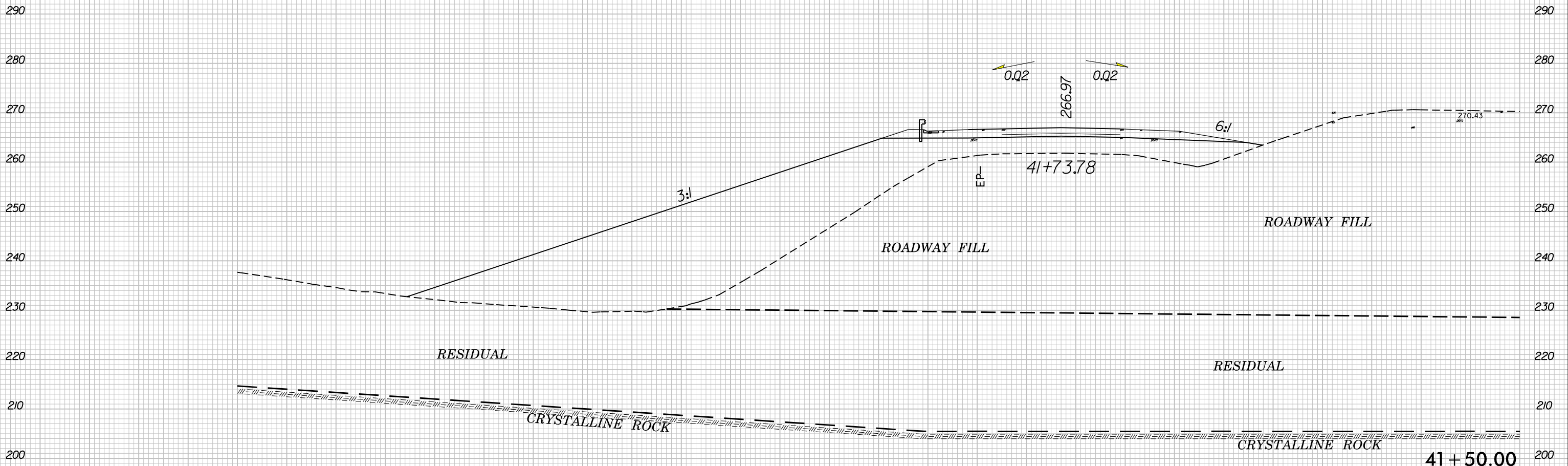
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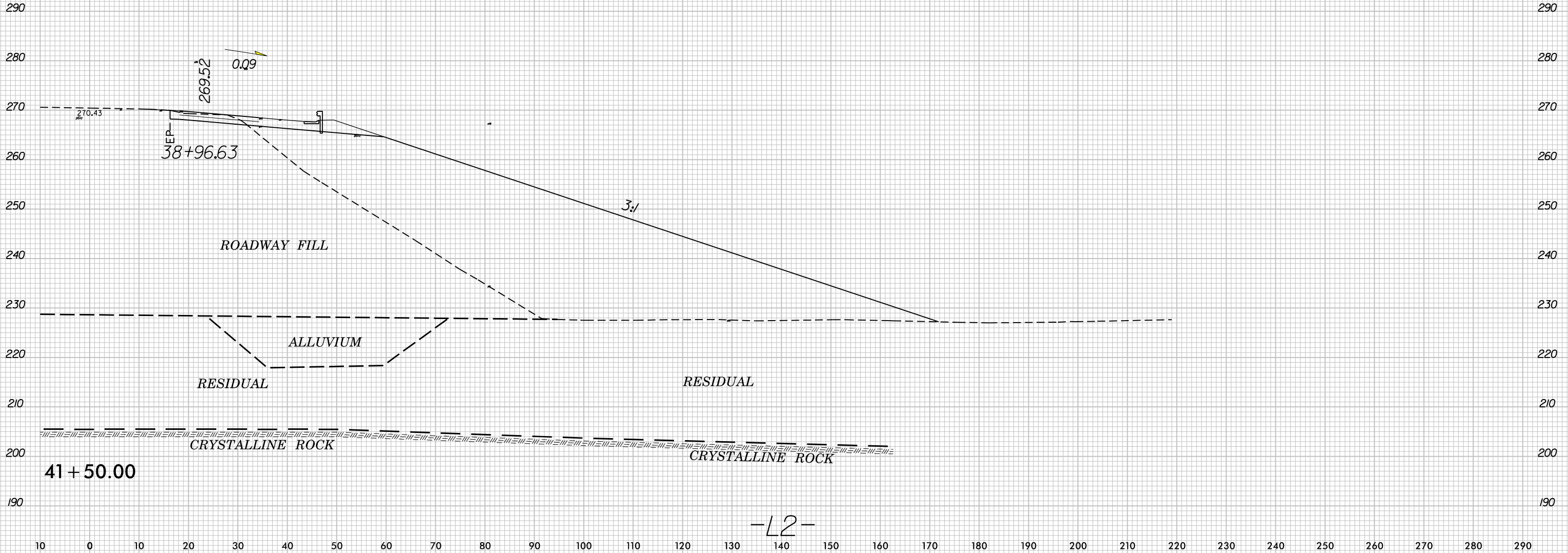


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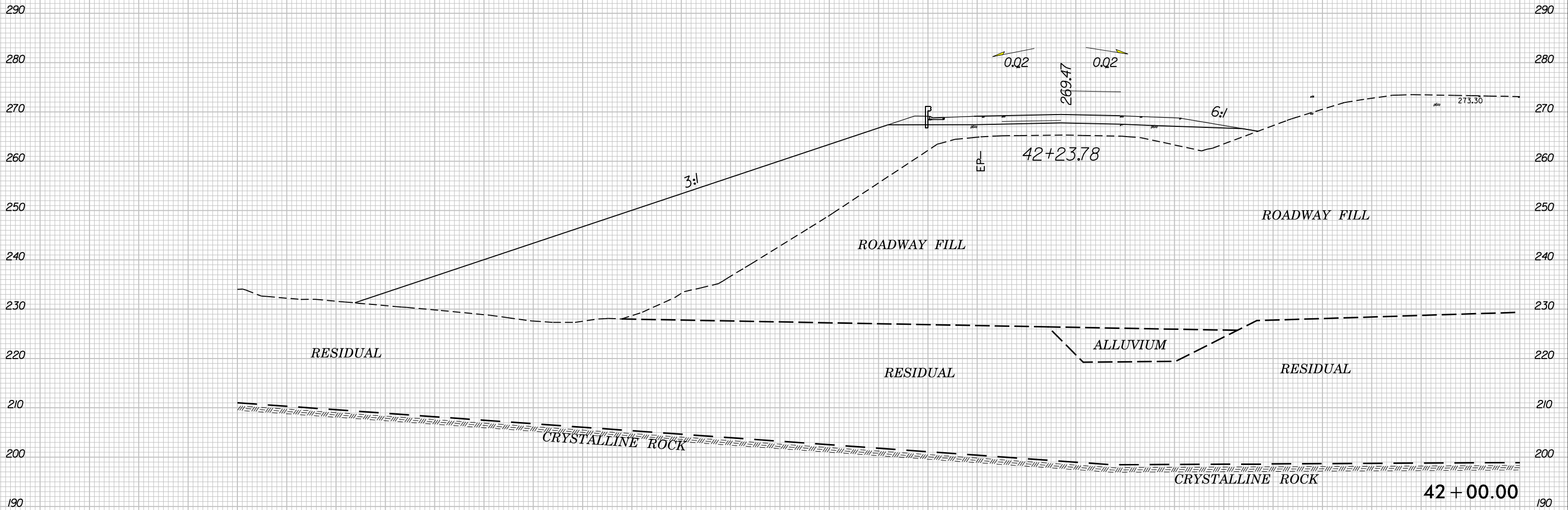
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8/23/99

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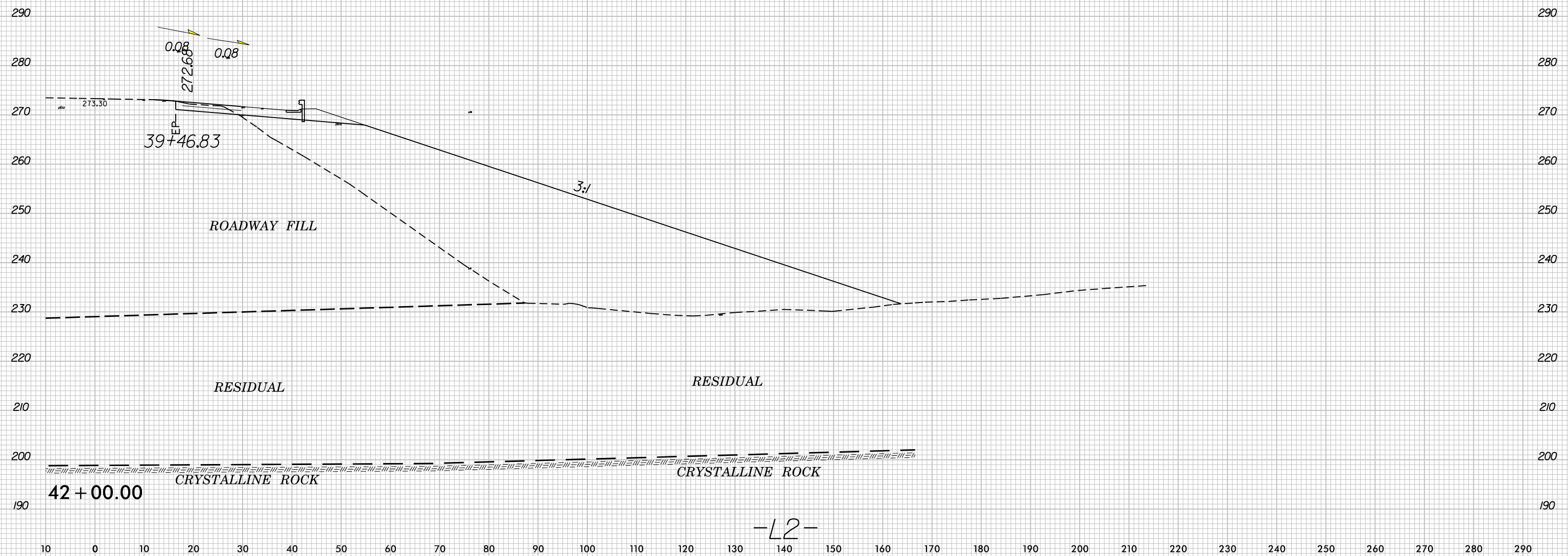
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8/23/99

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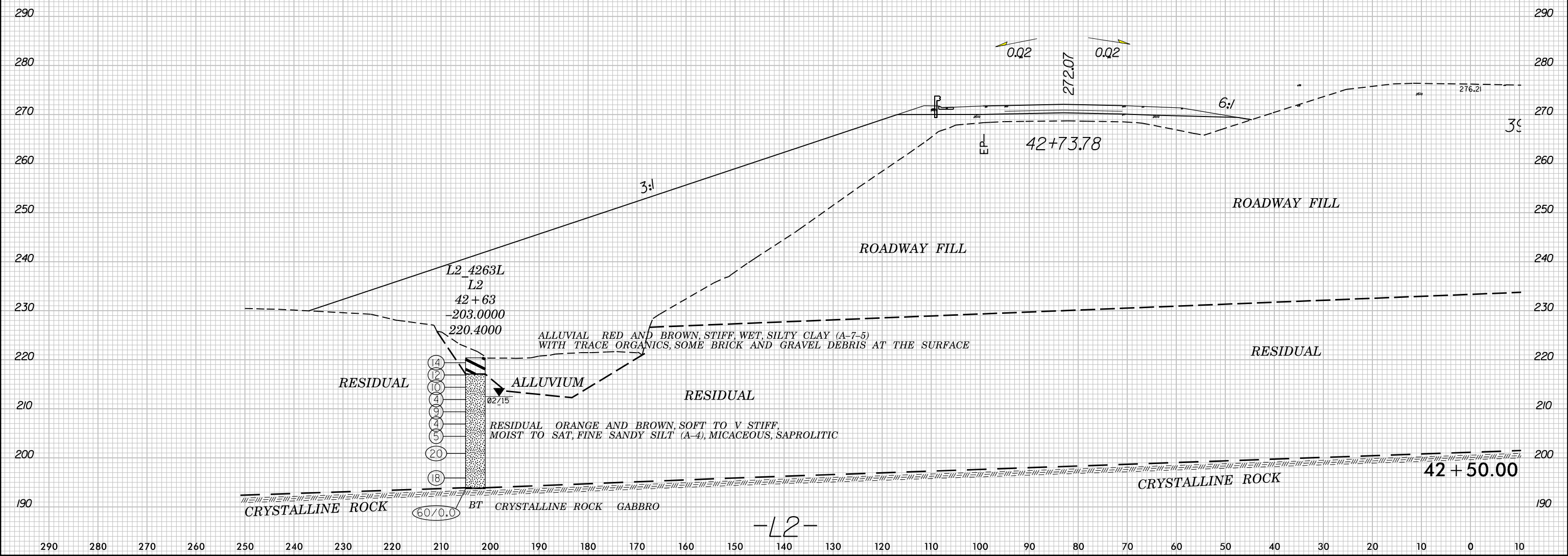
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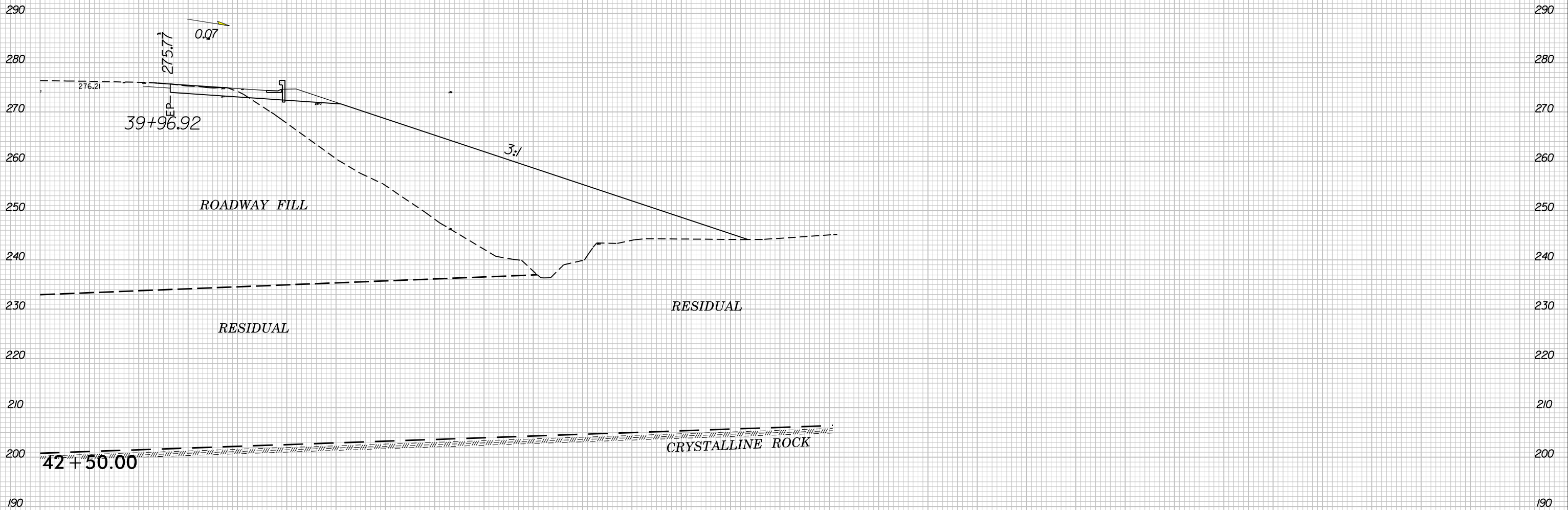
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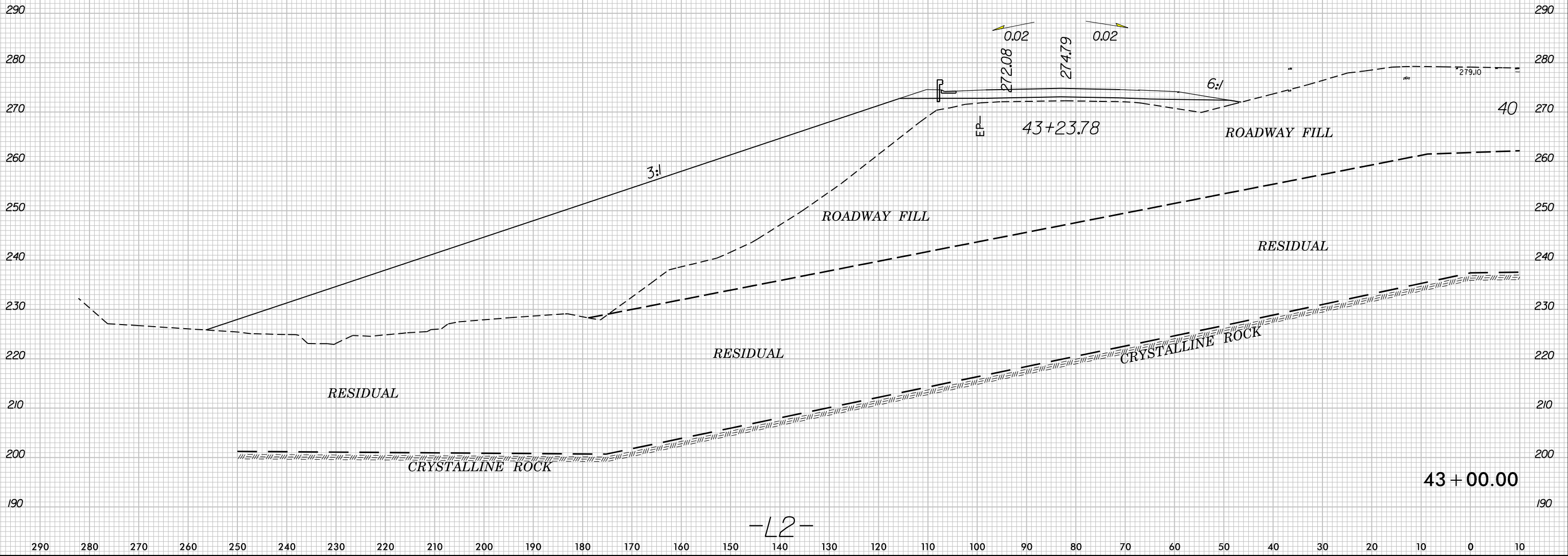


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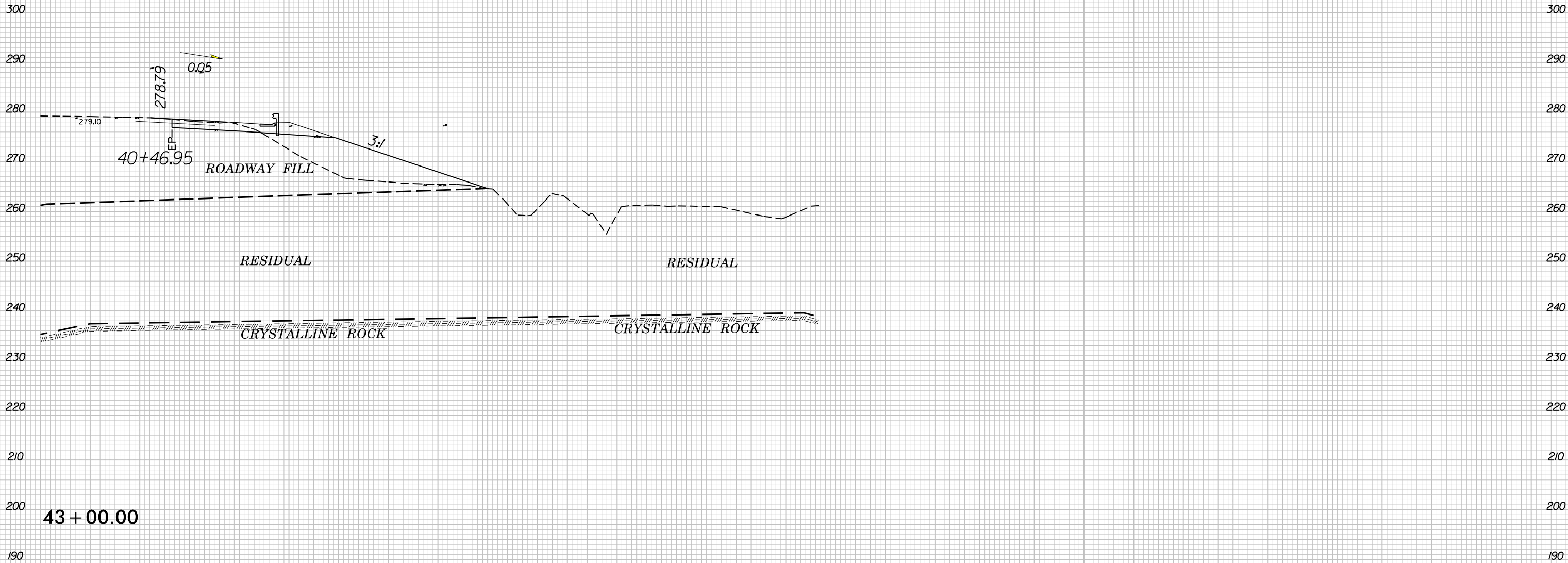
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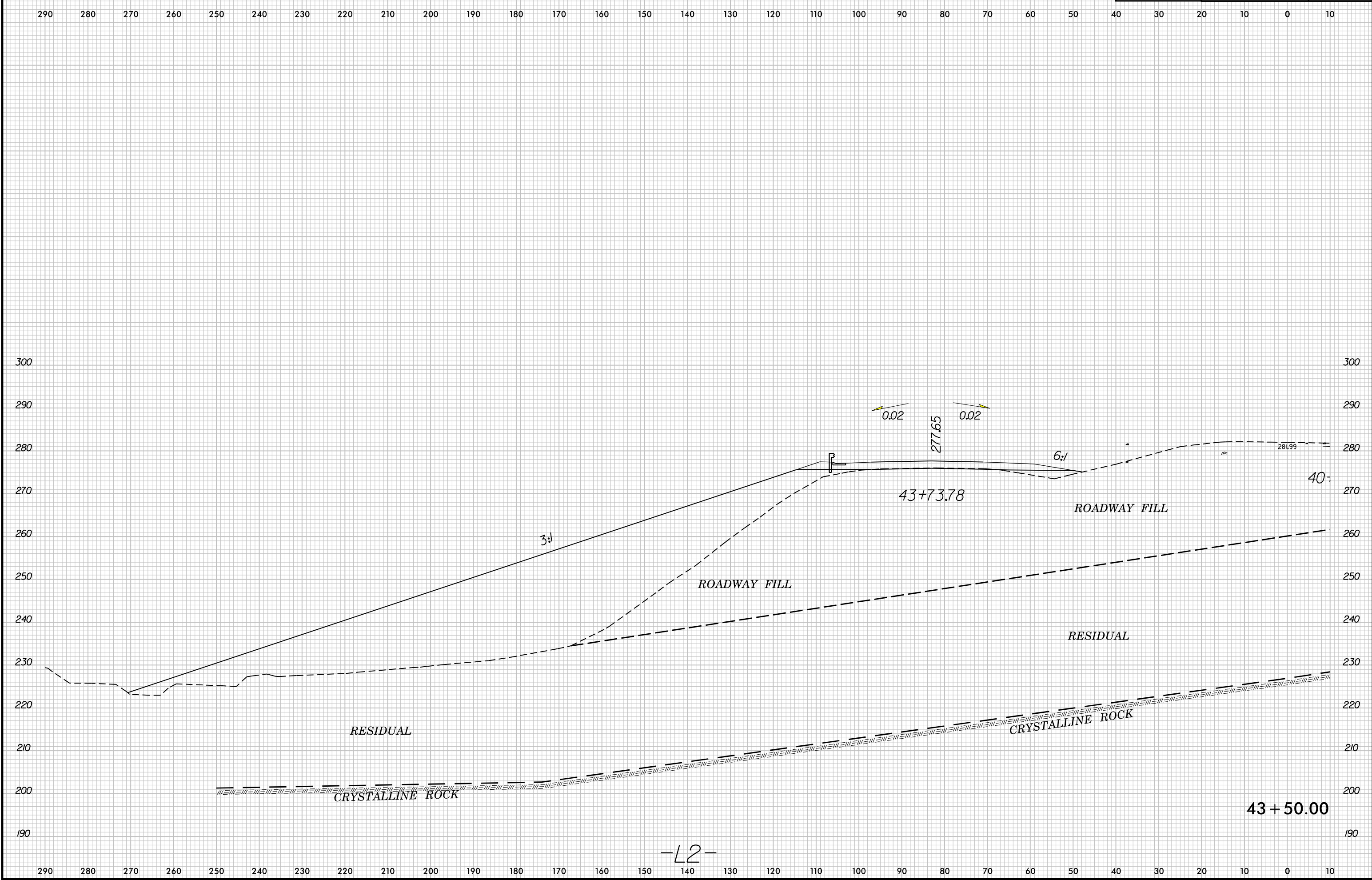


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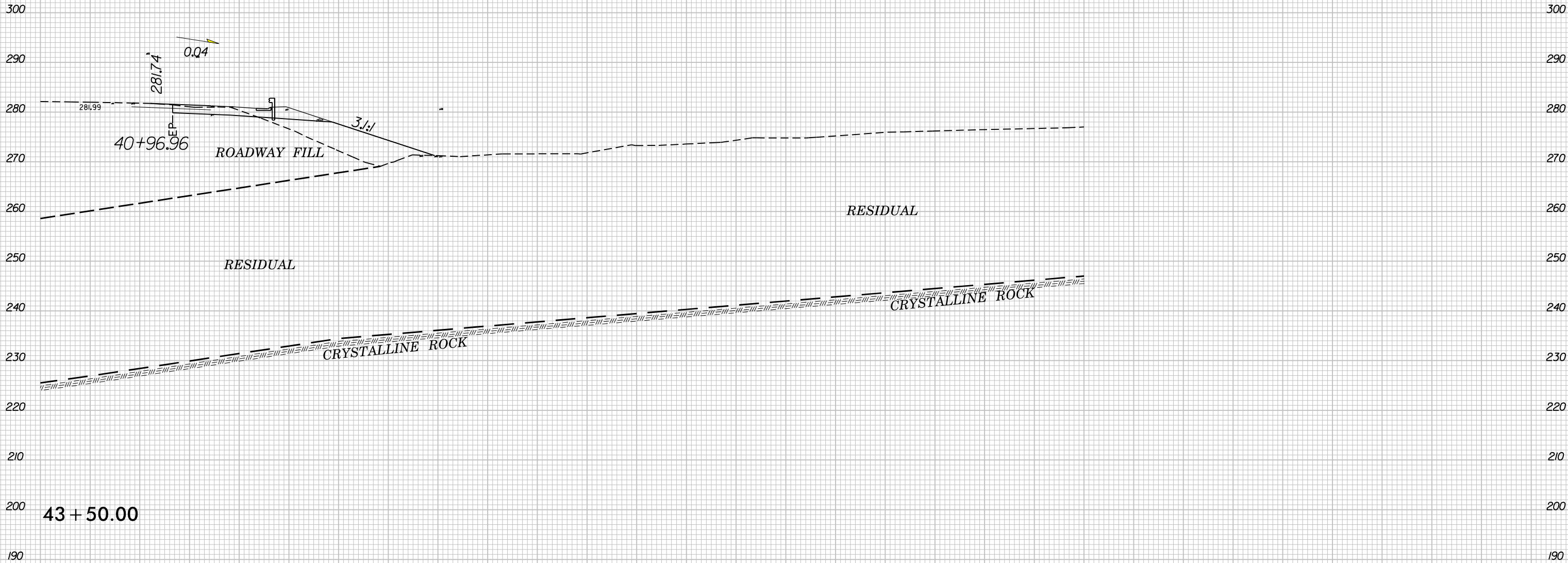


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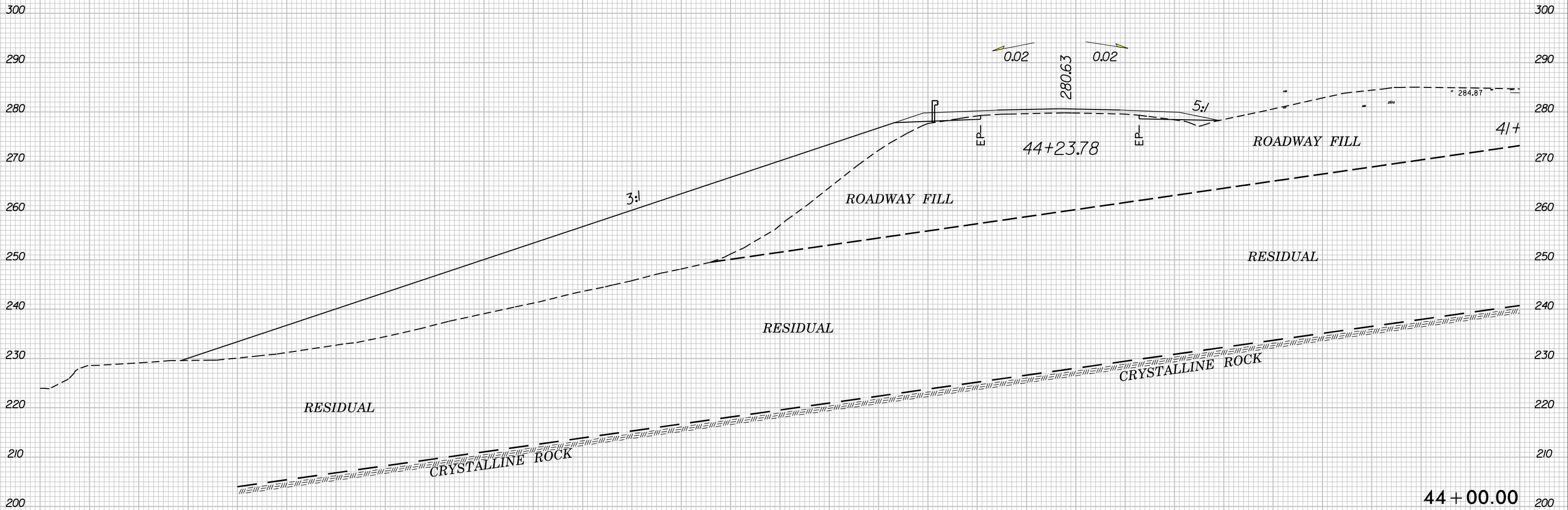
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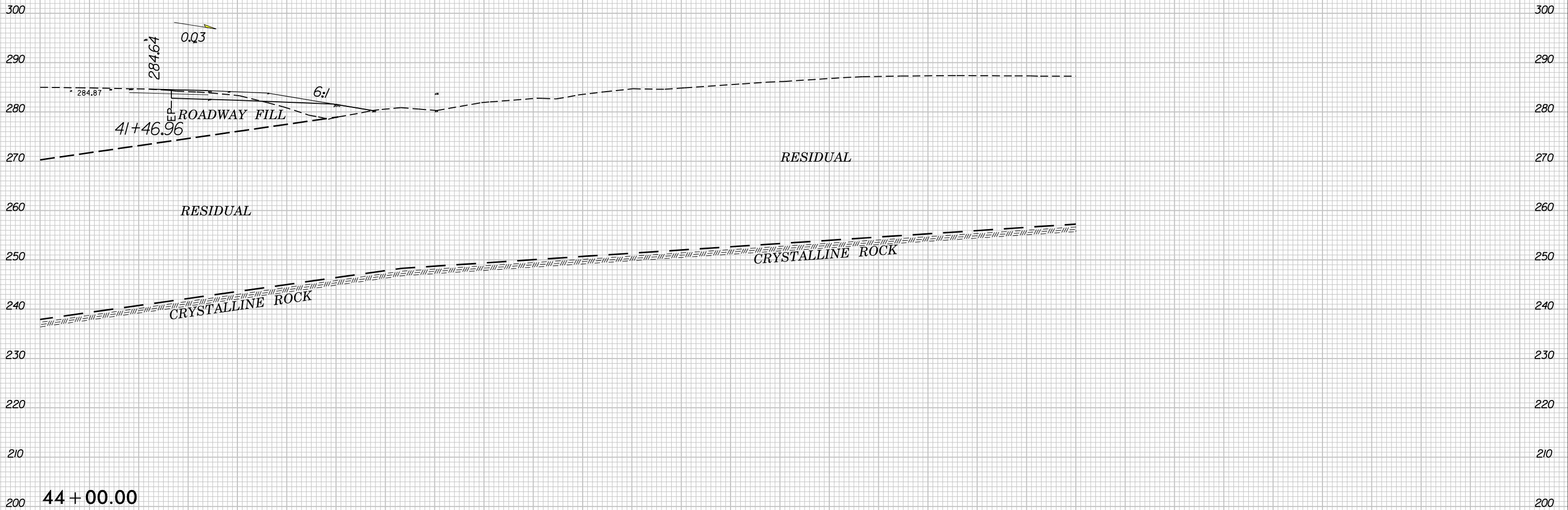


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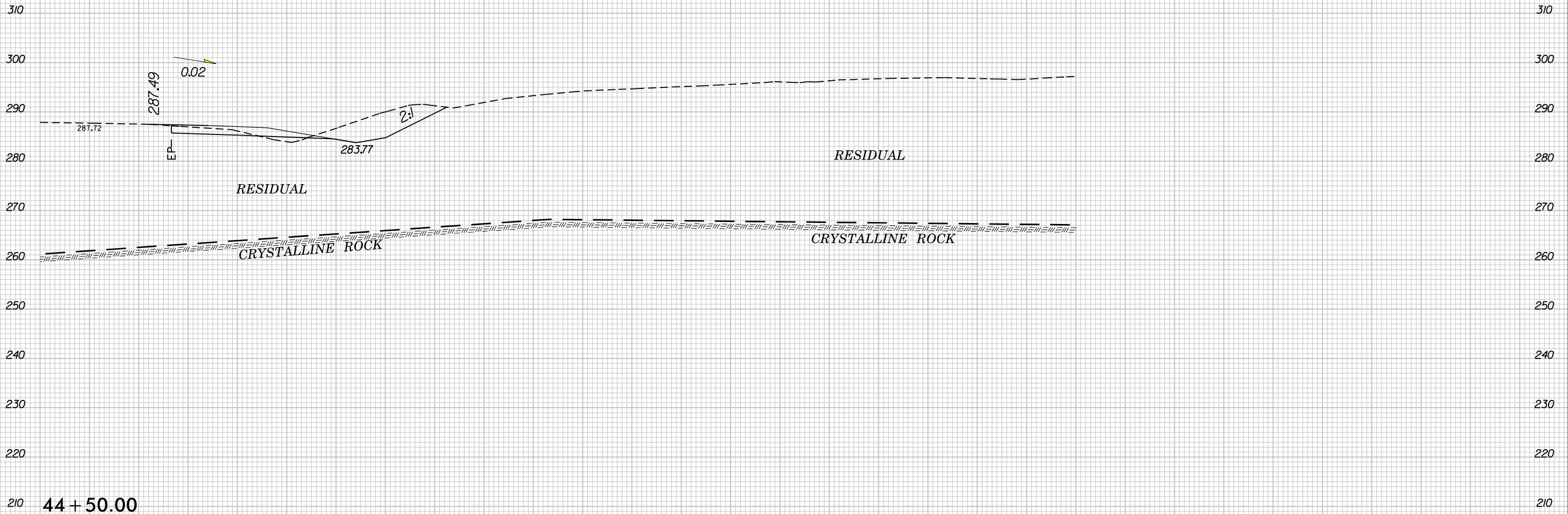
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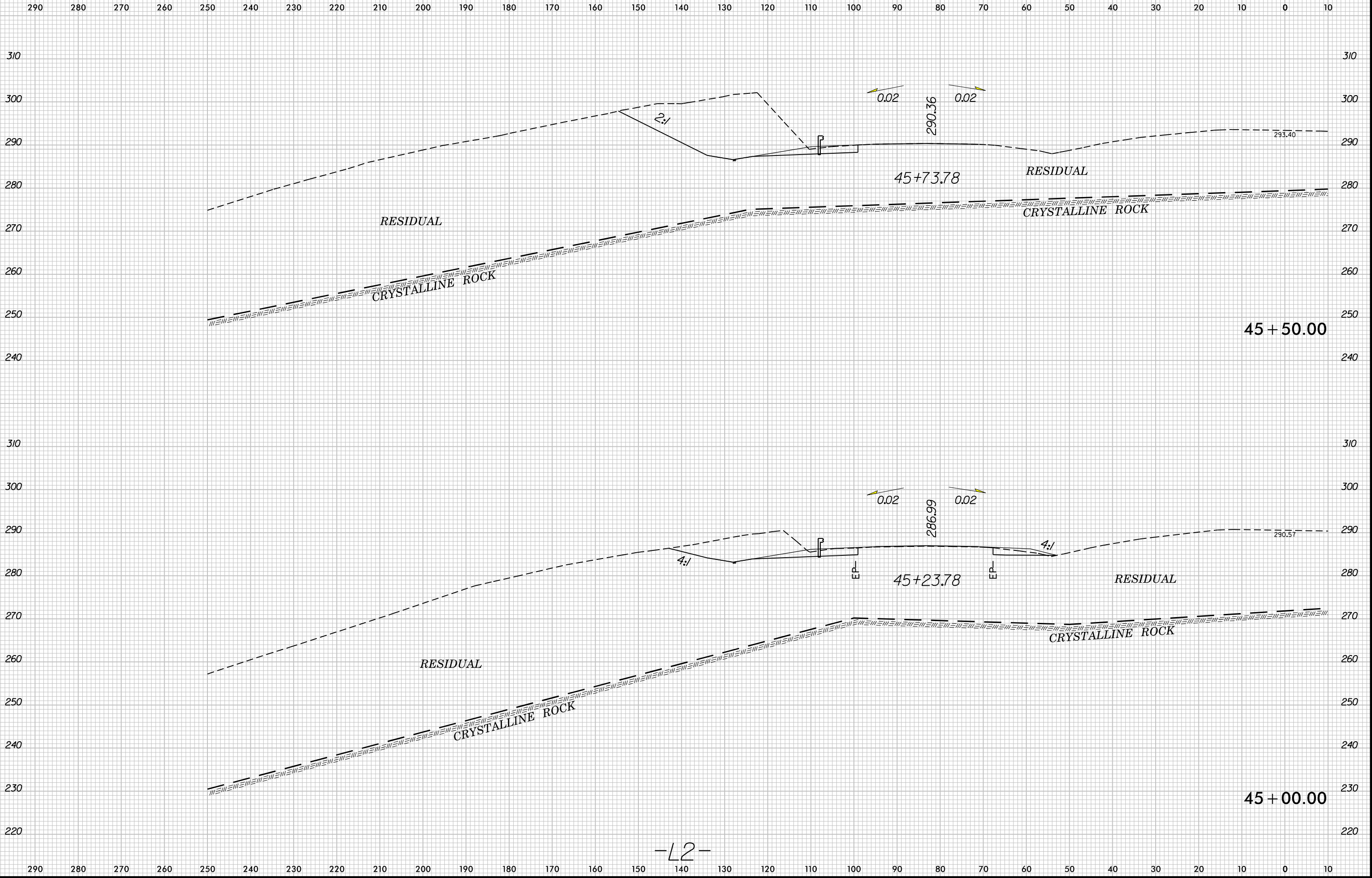


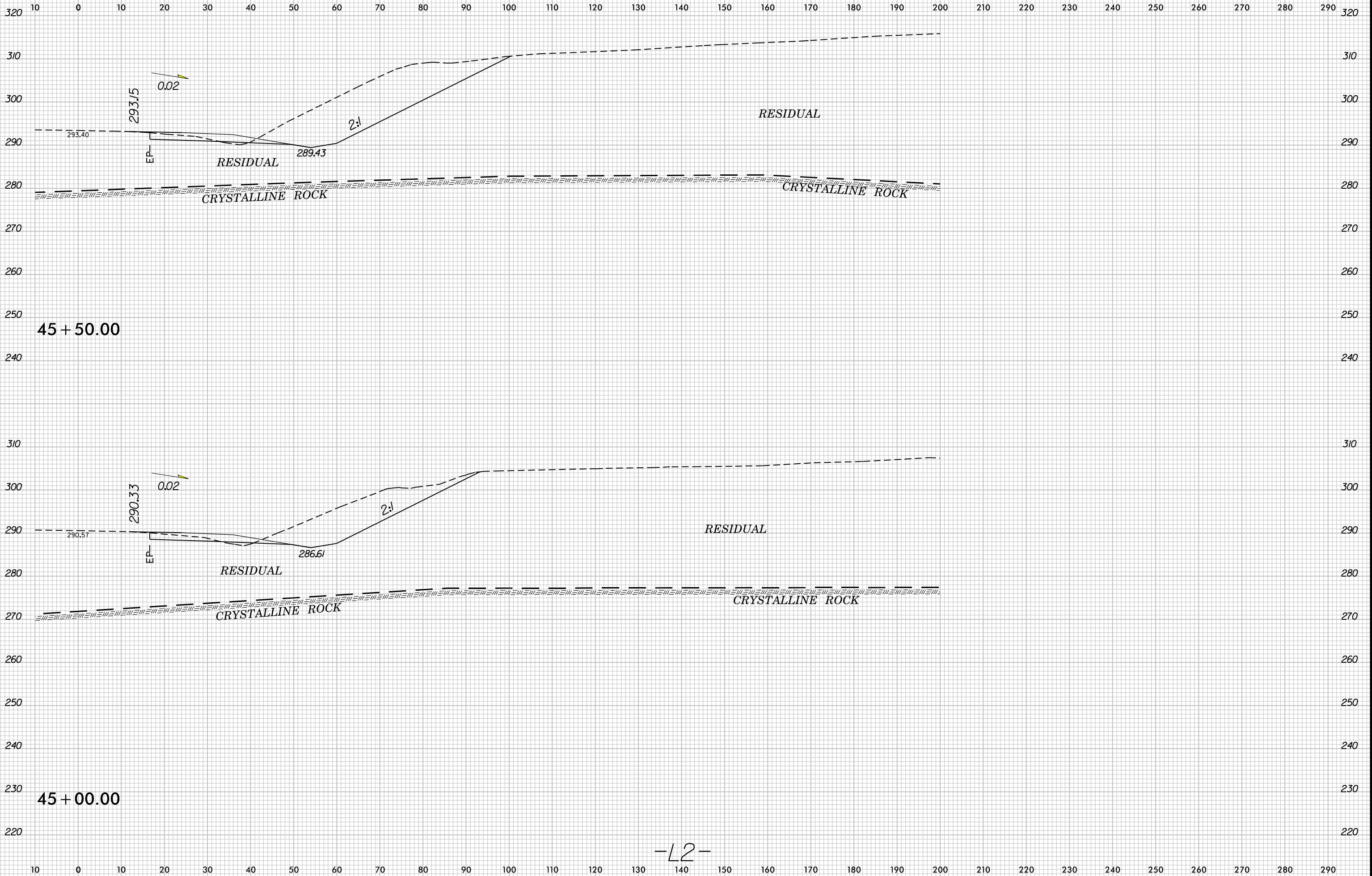
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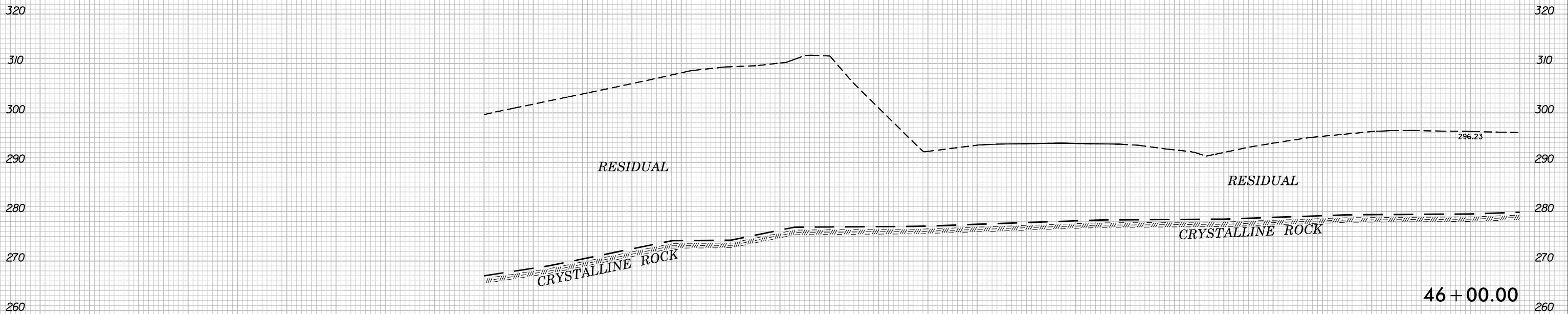
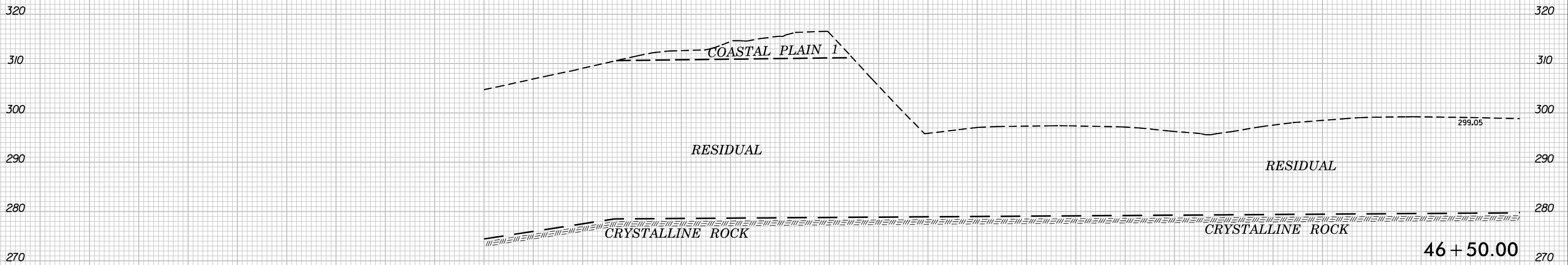


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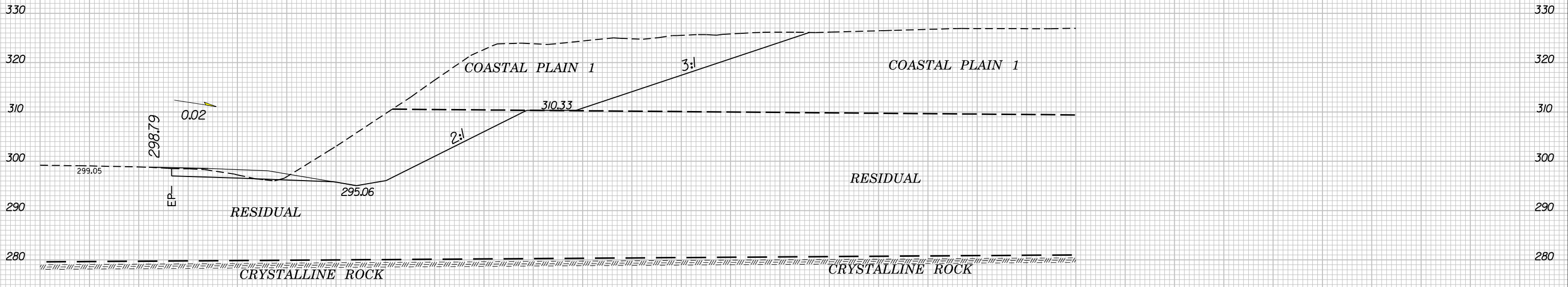




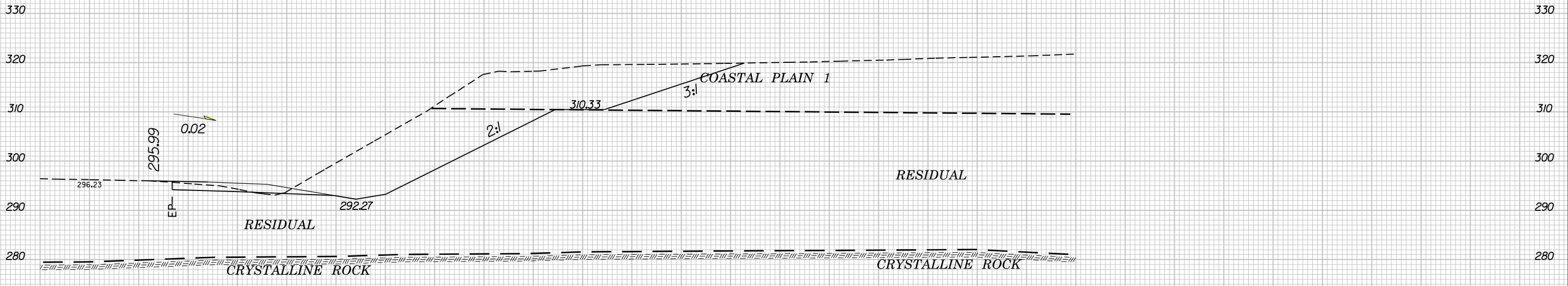
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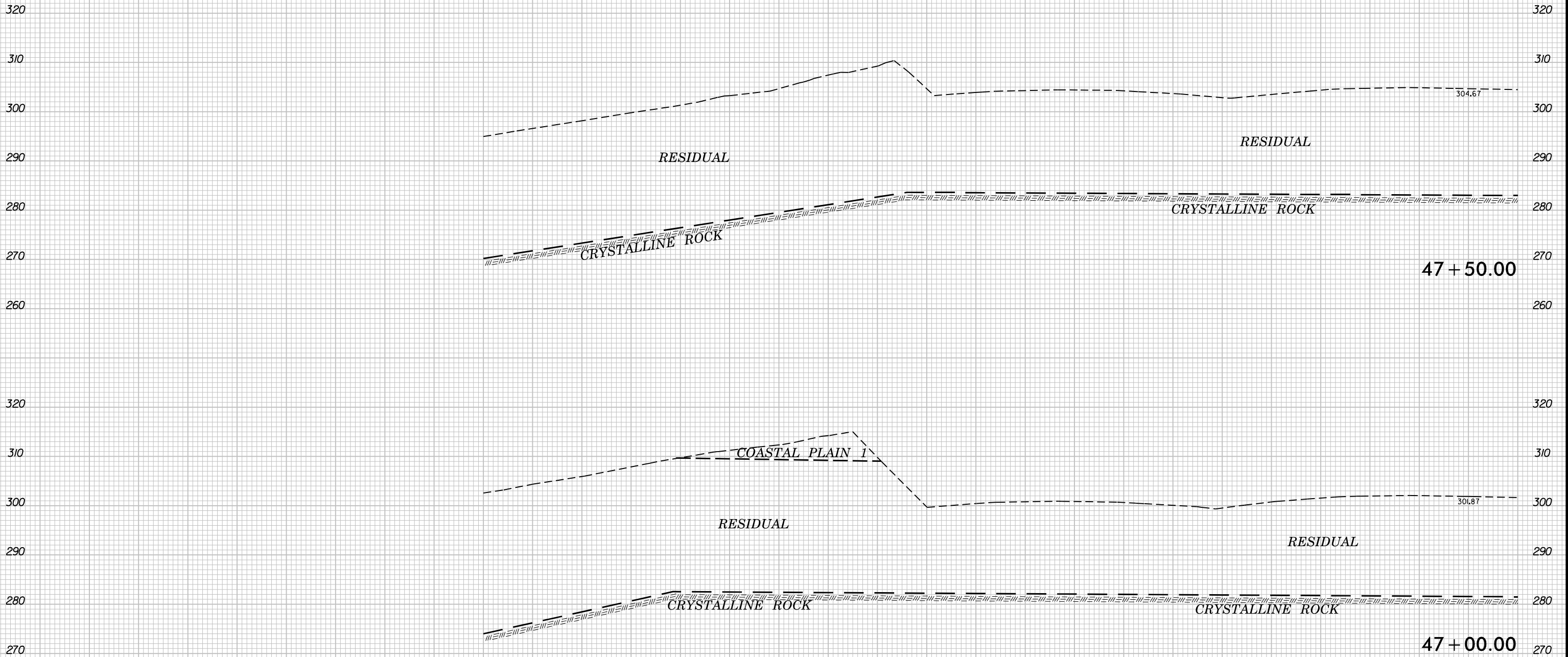
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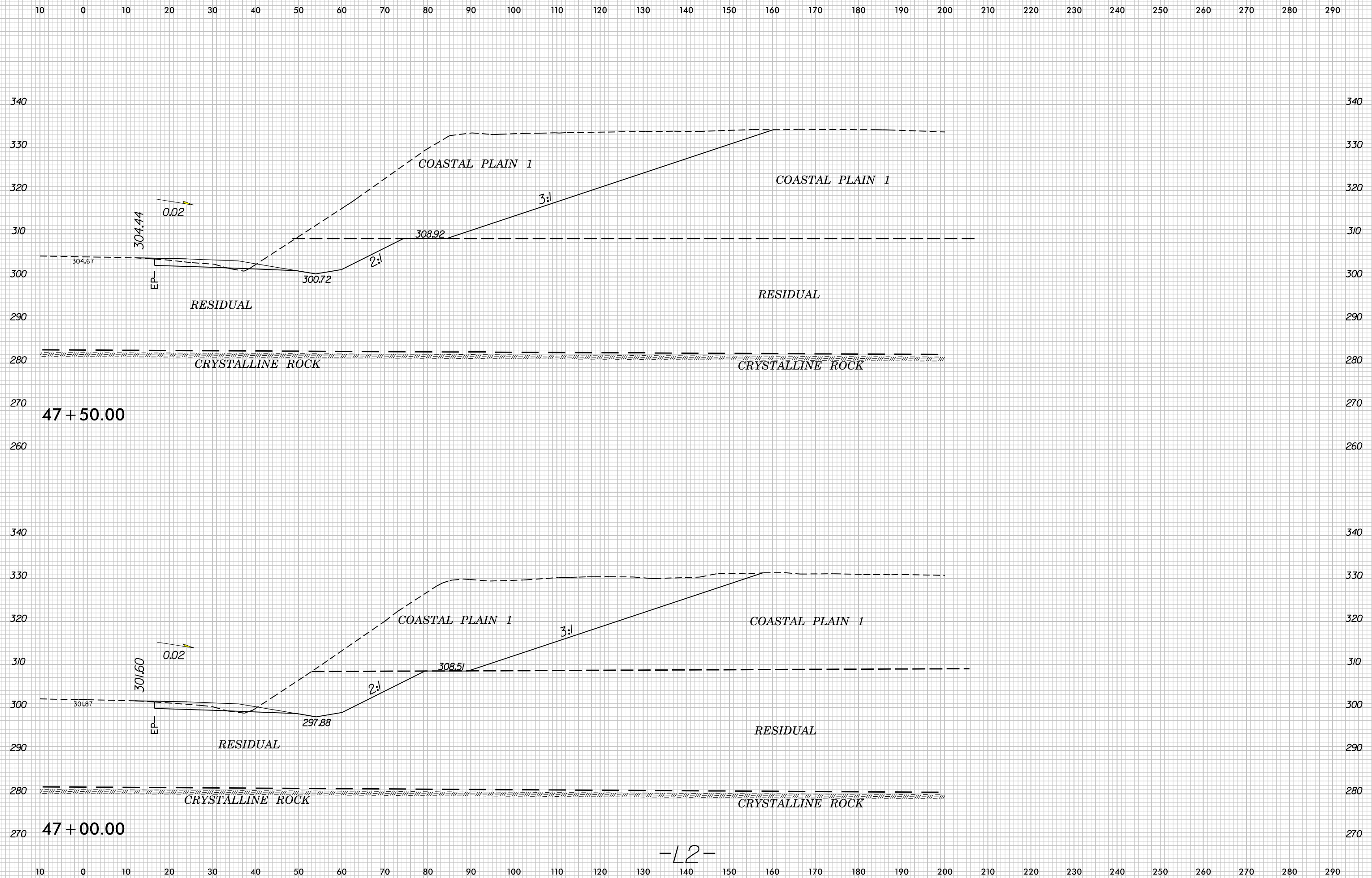


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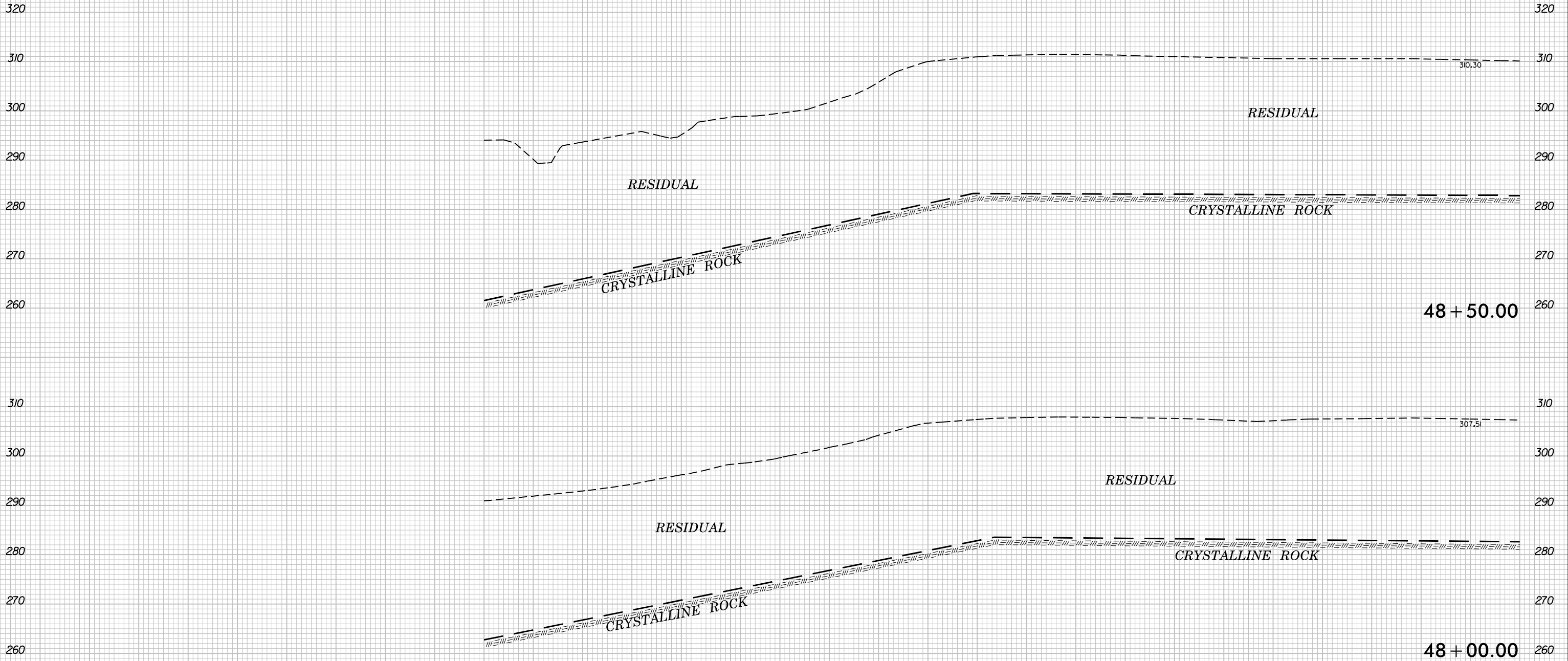
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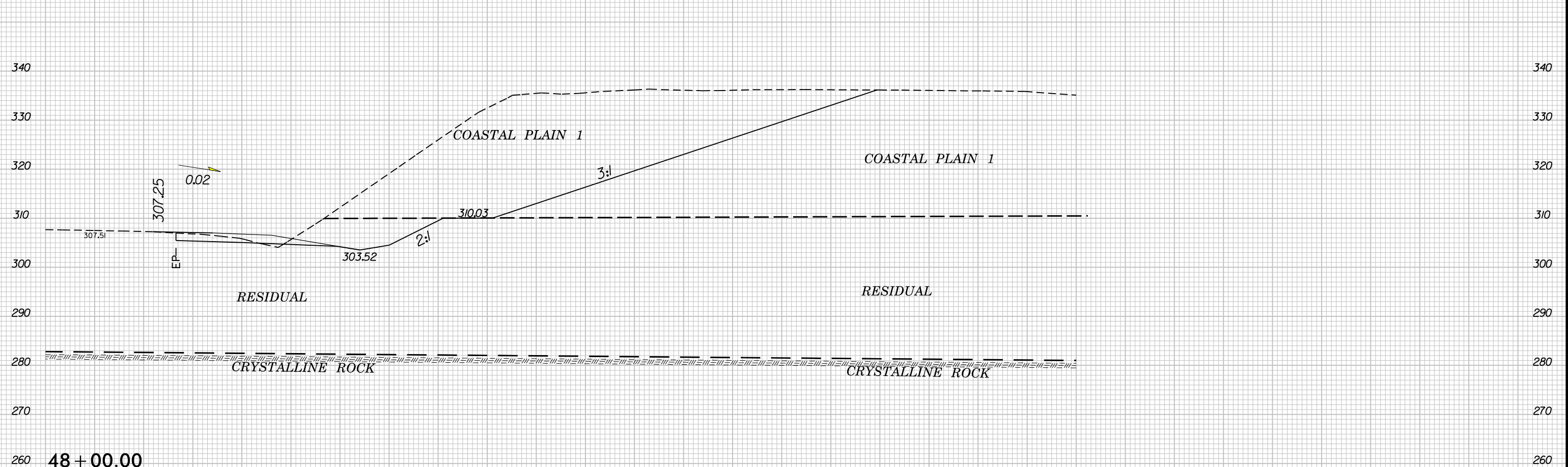
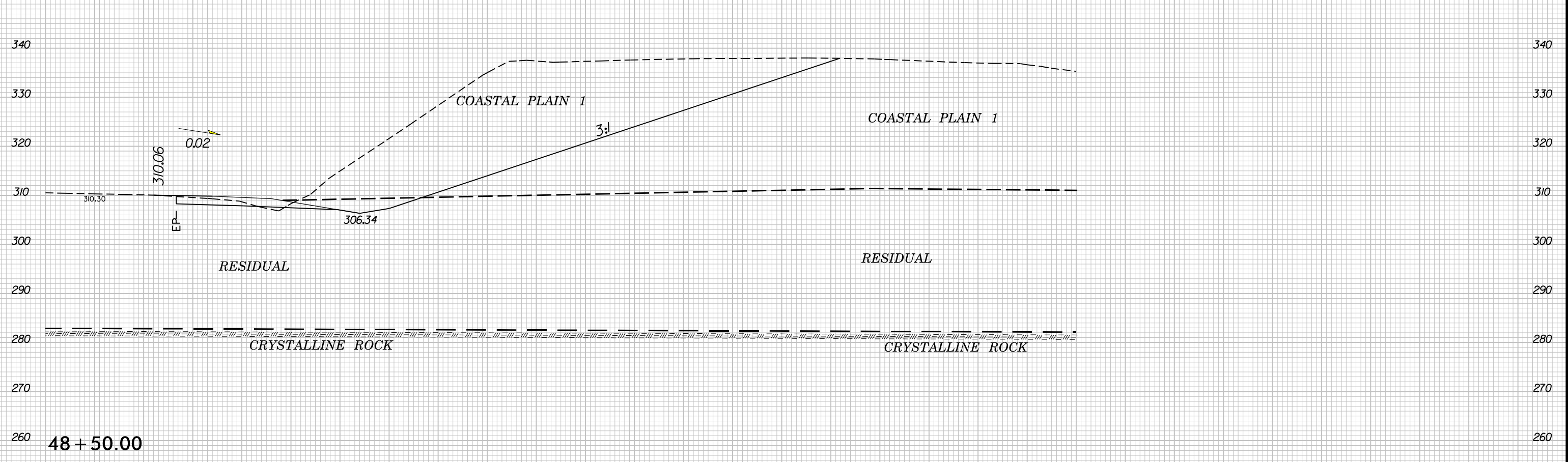


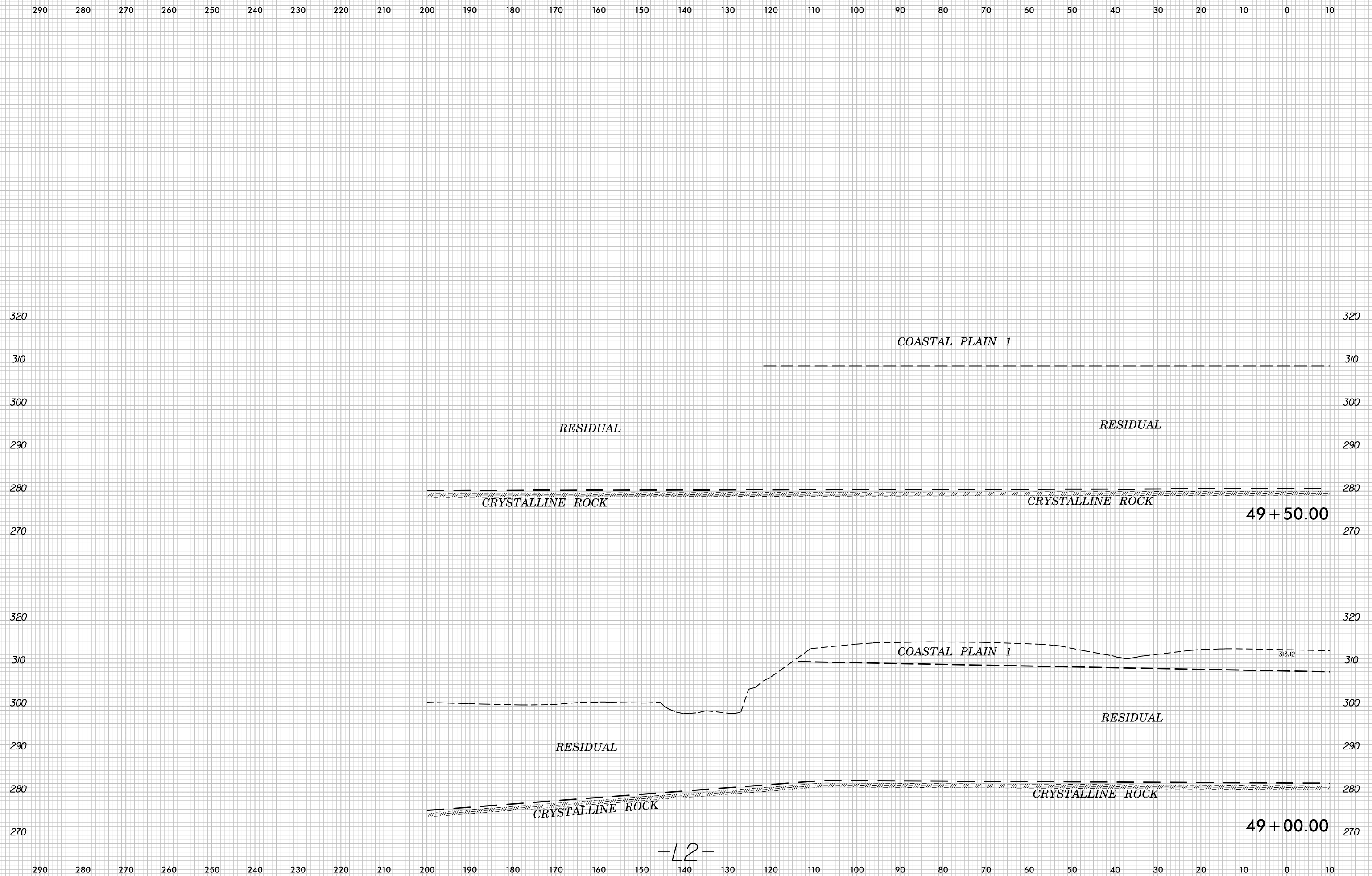


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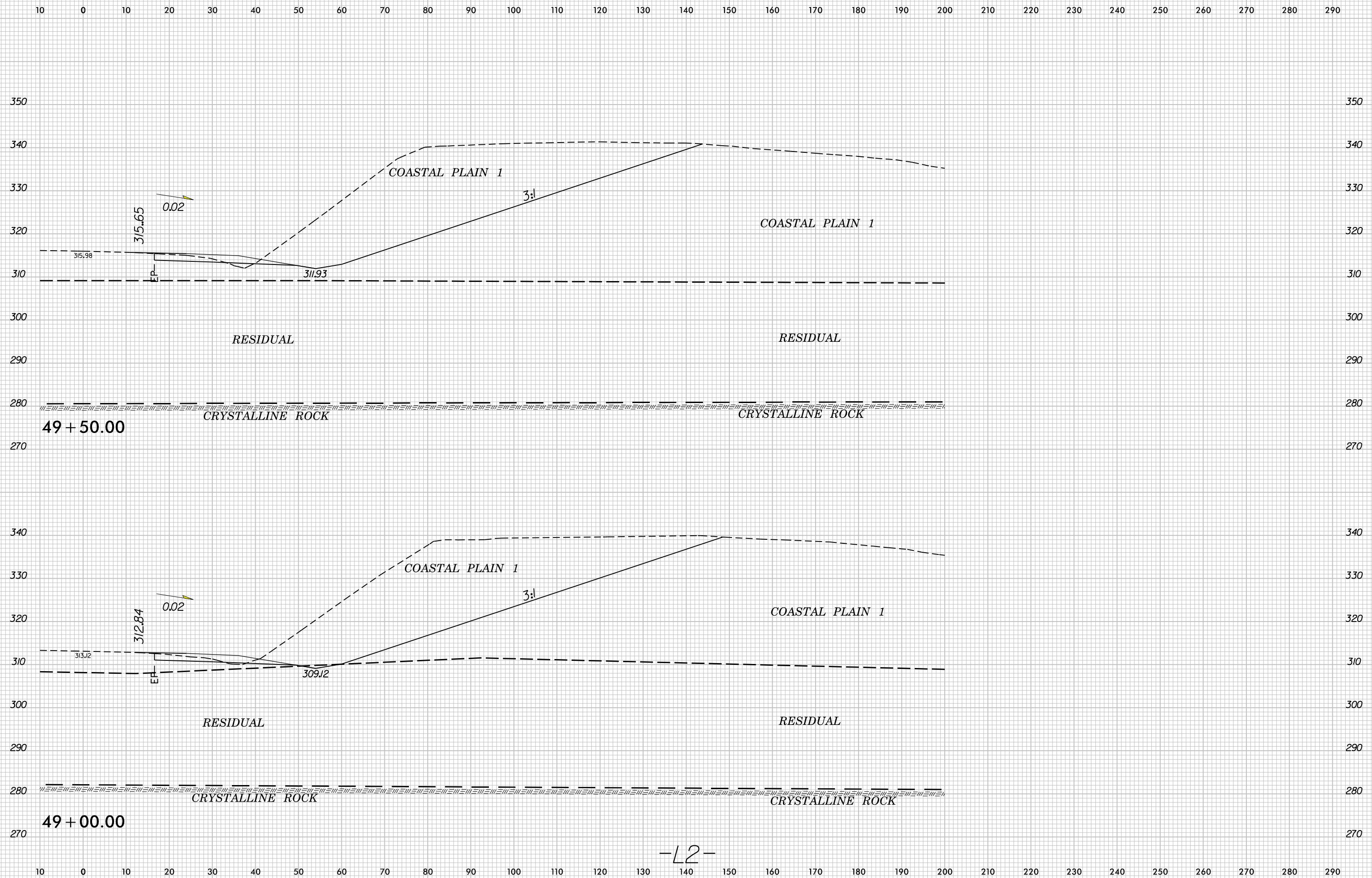


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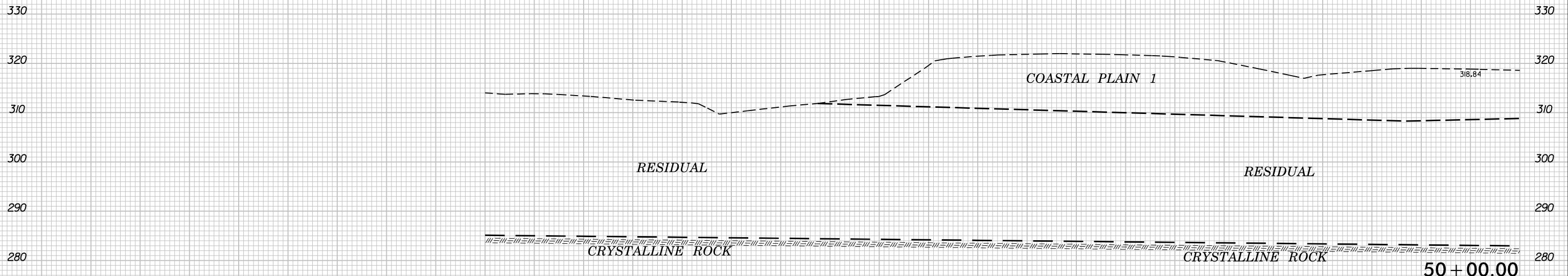
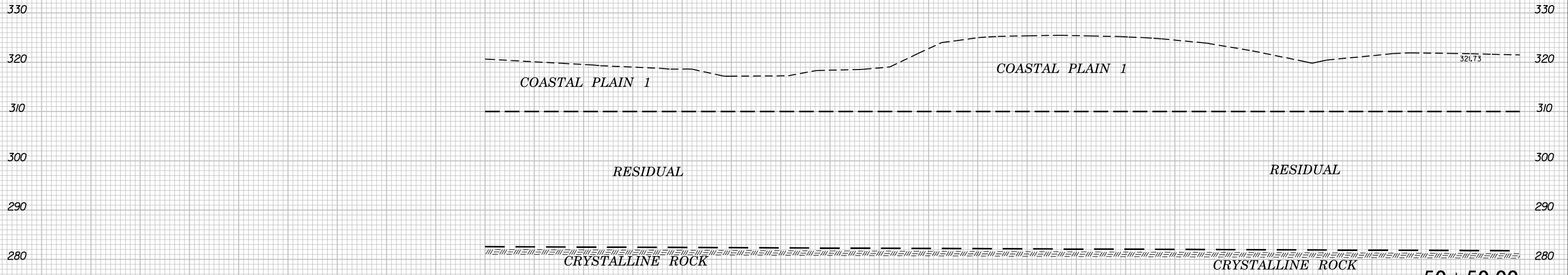


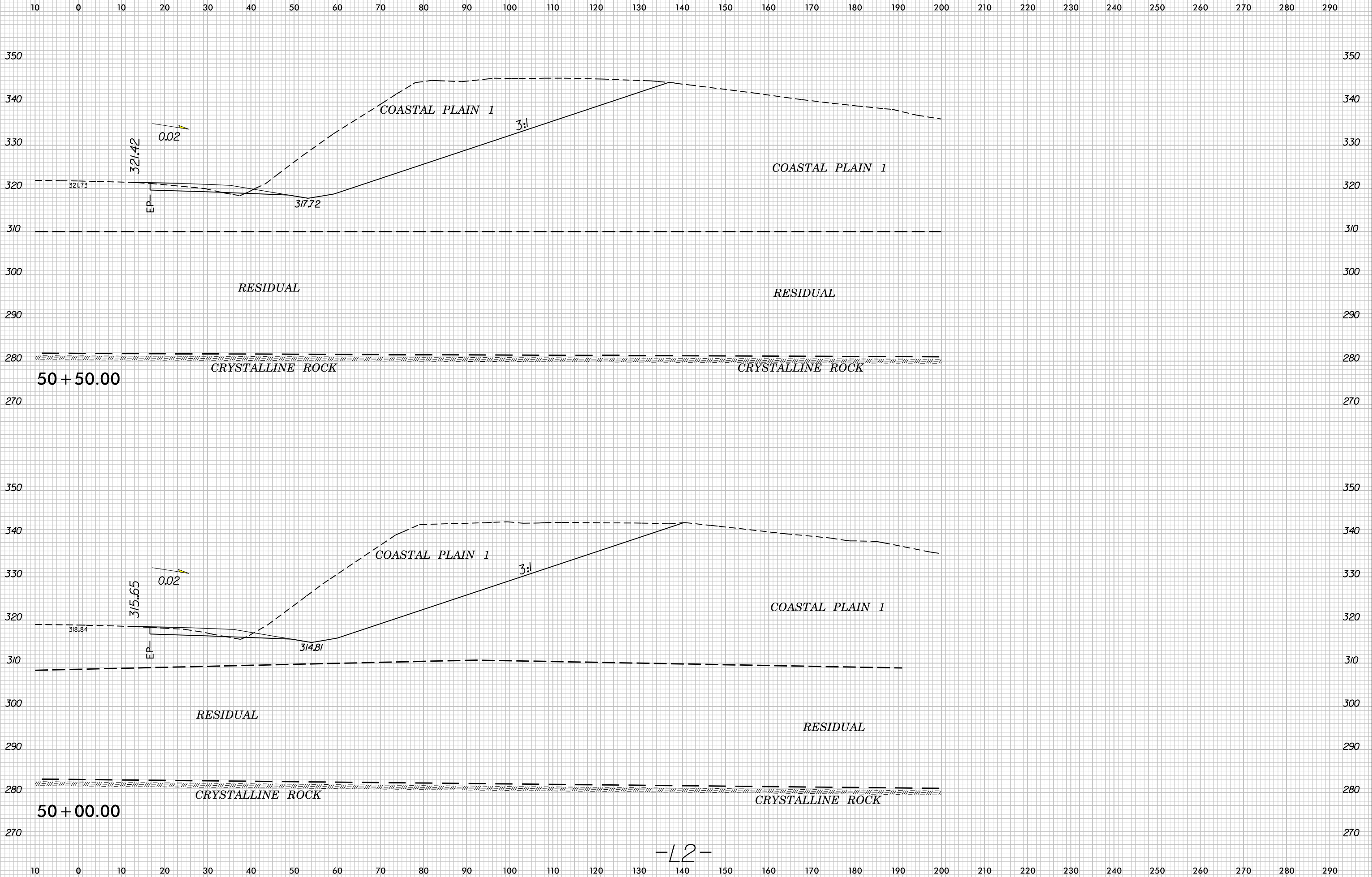
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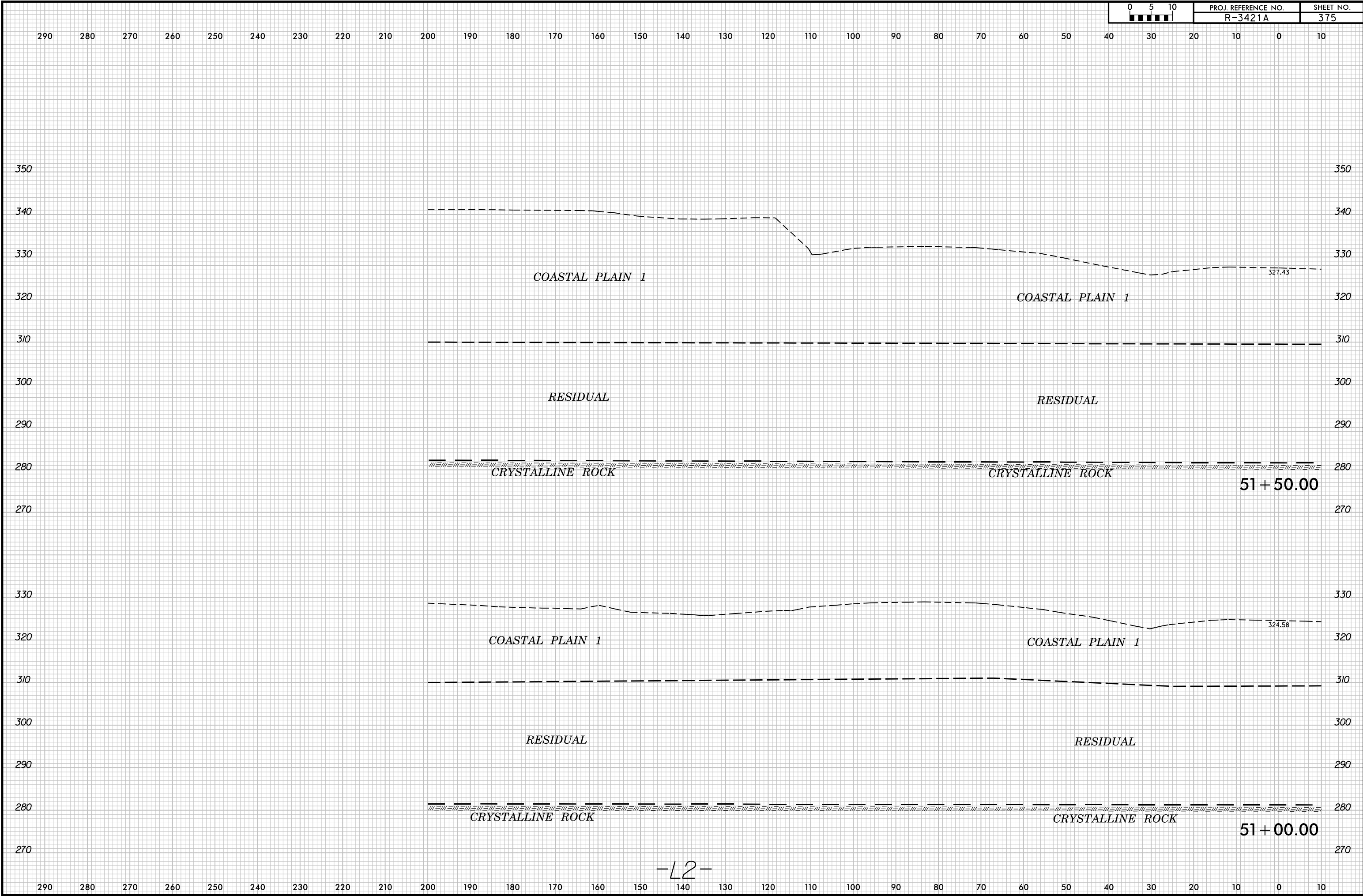


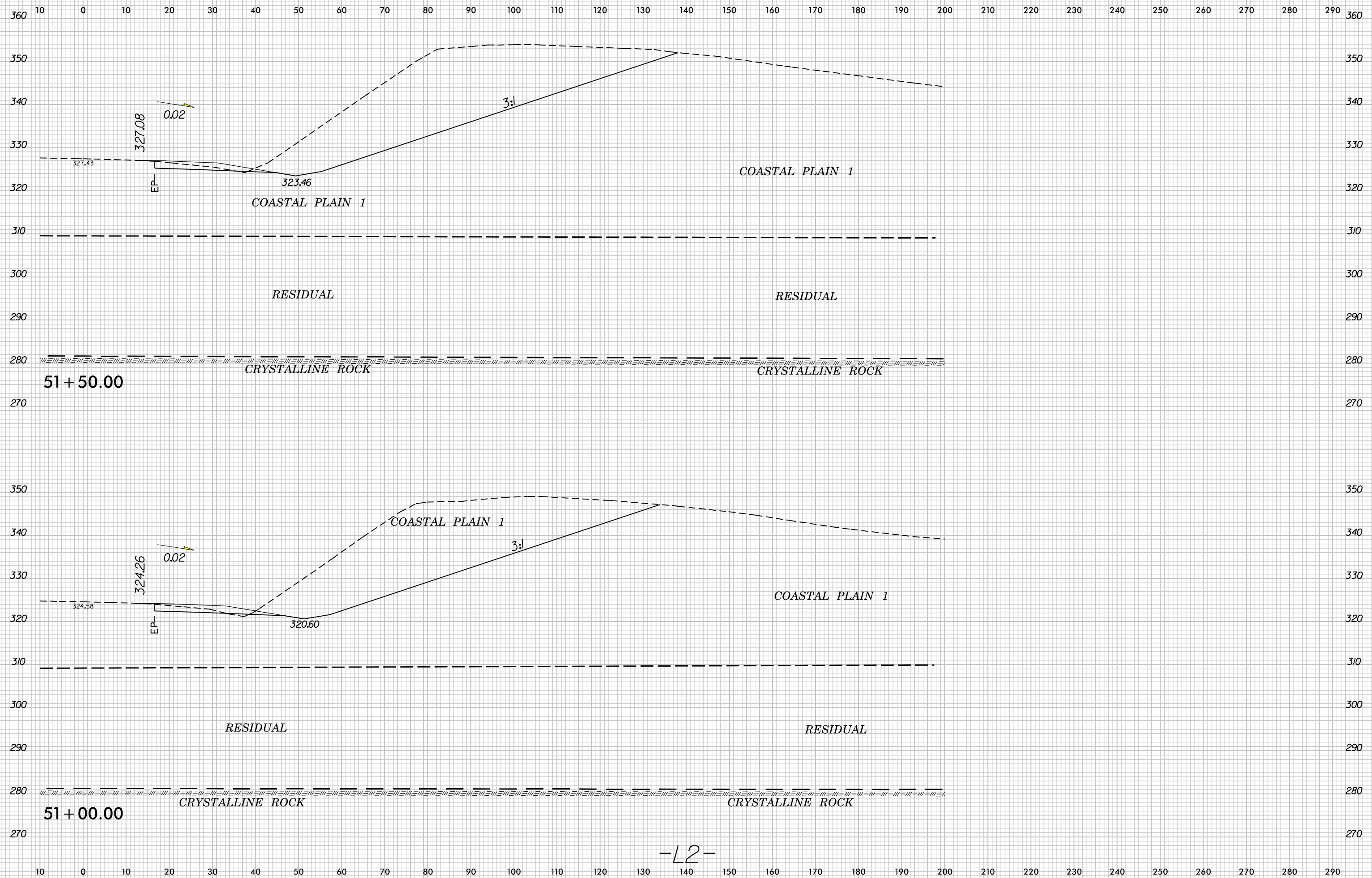
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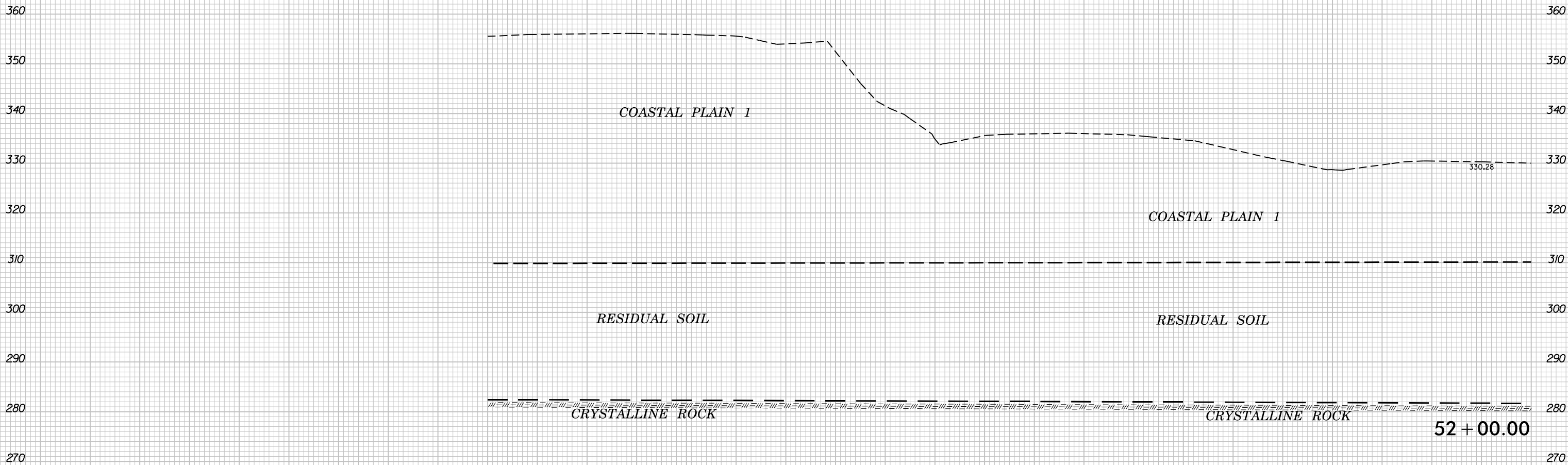




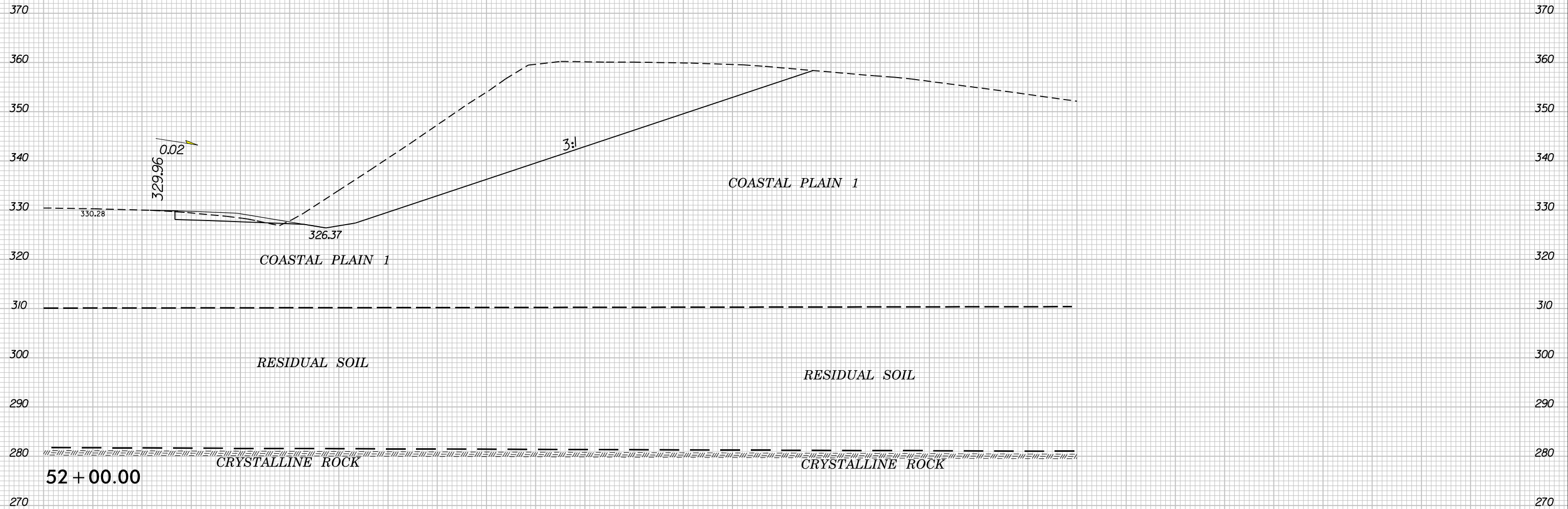




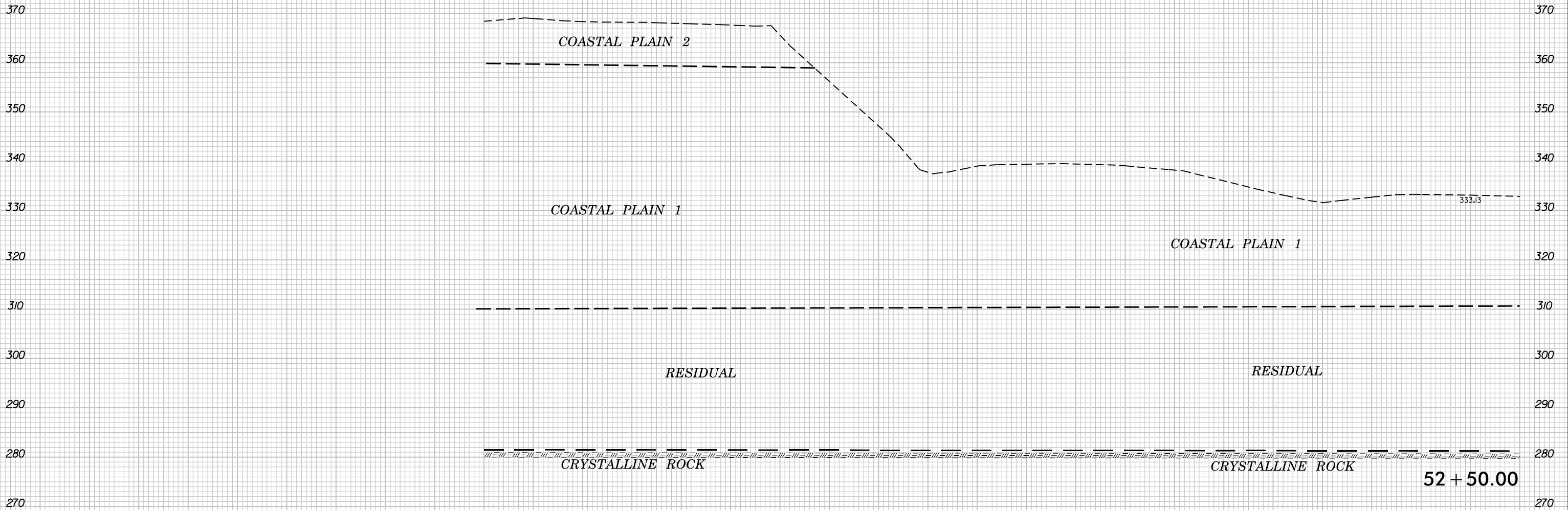
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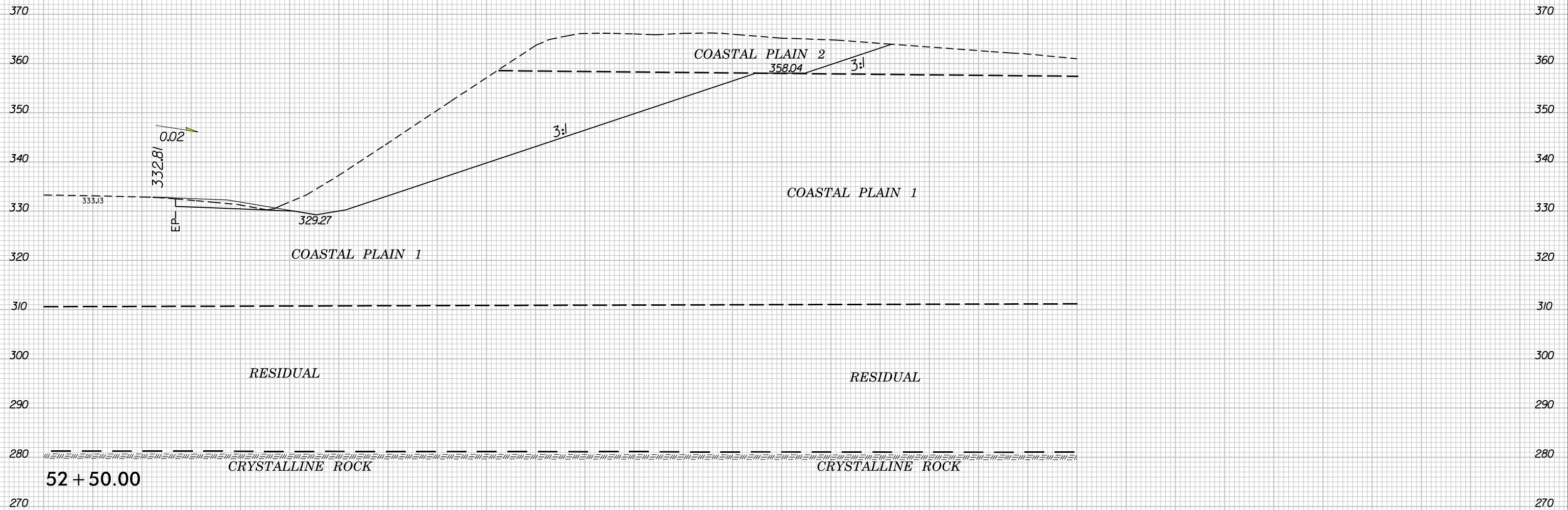
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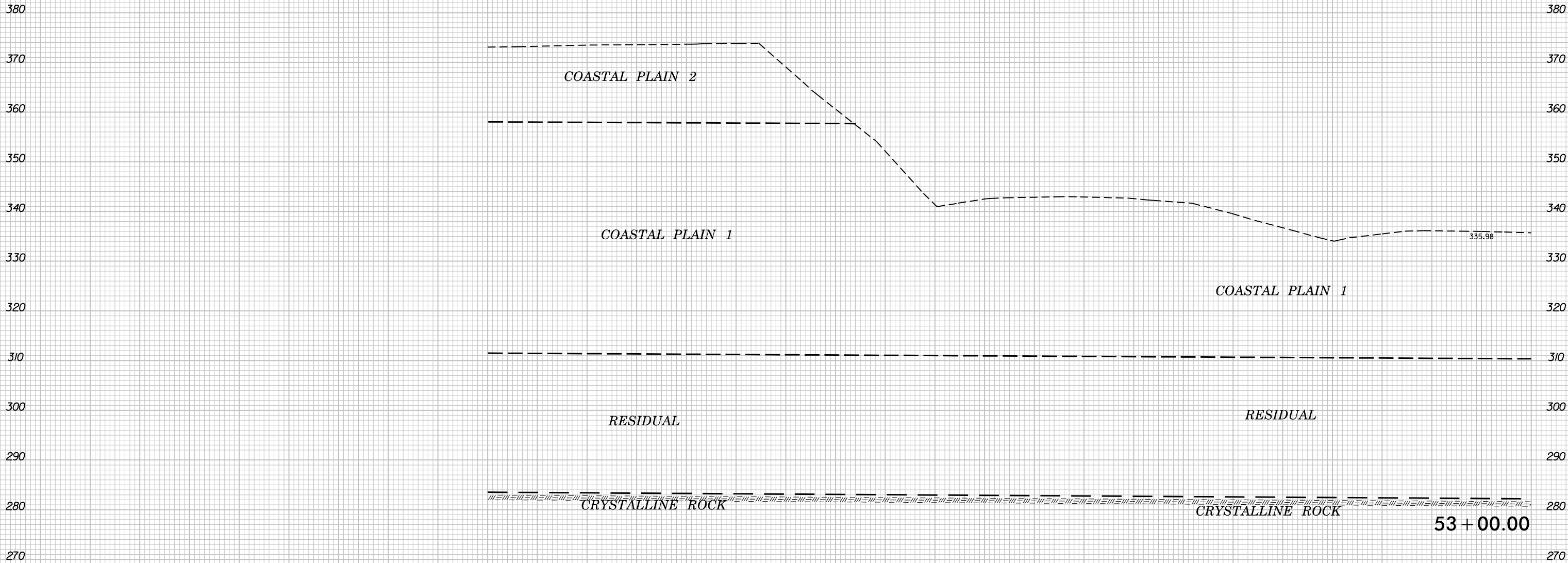
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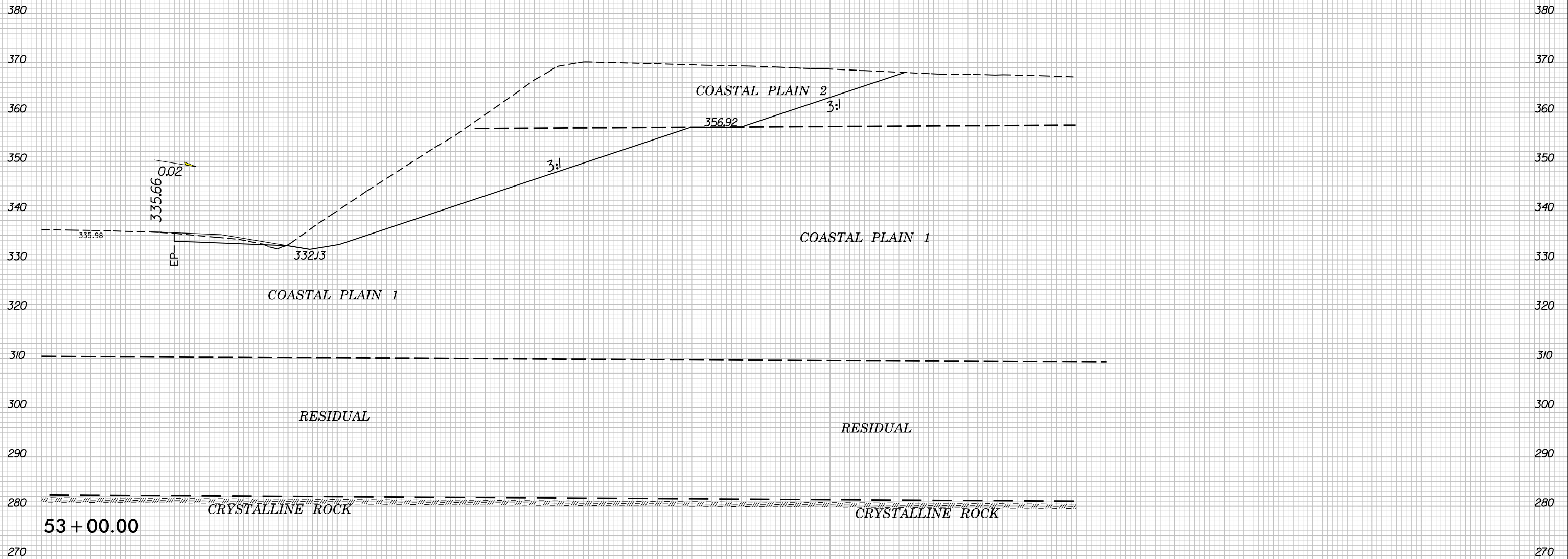
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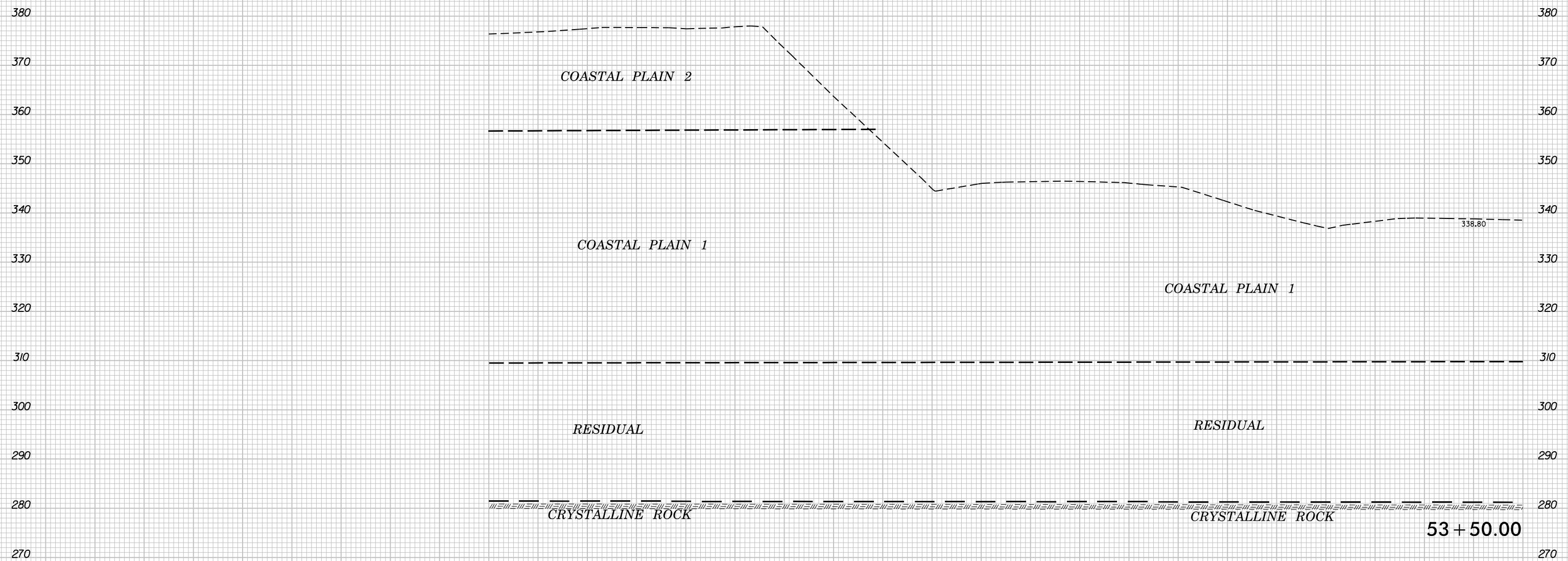


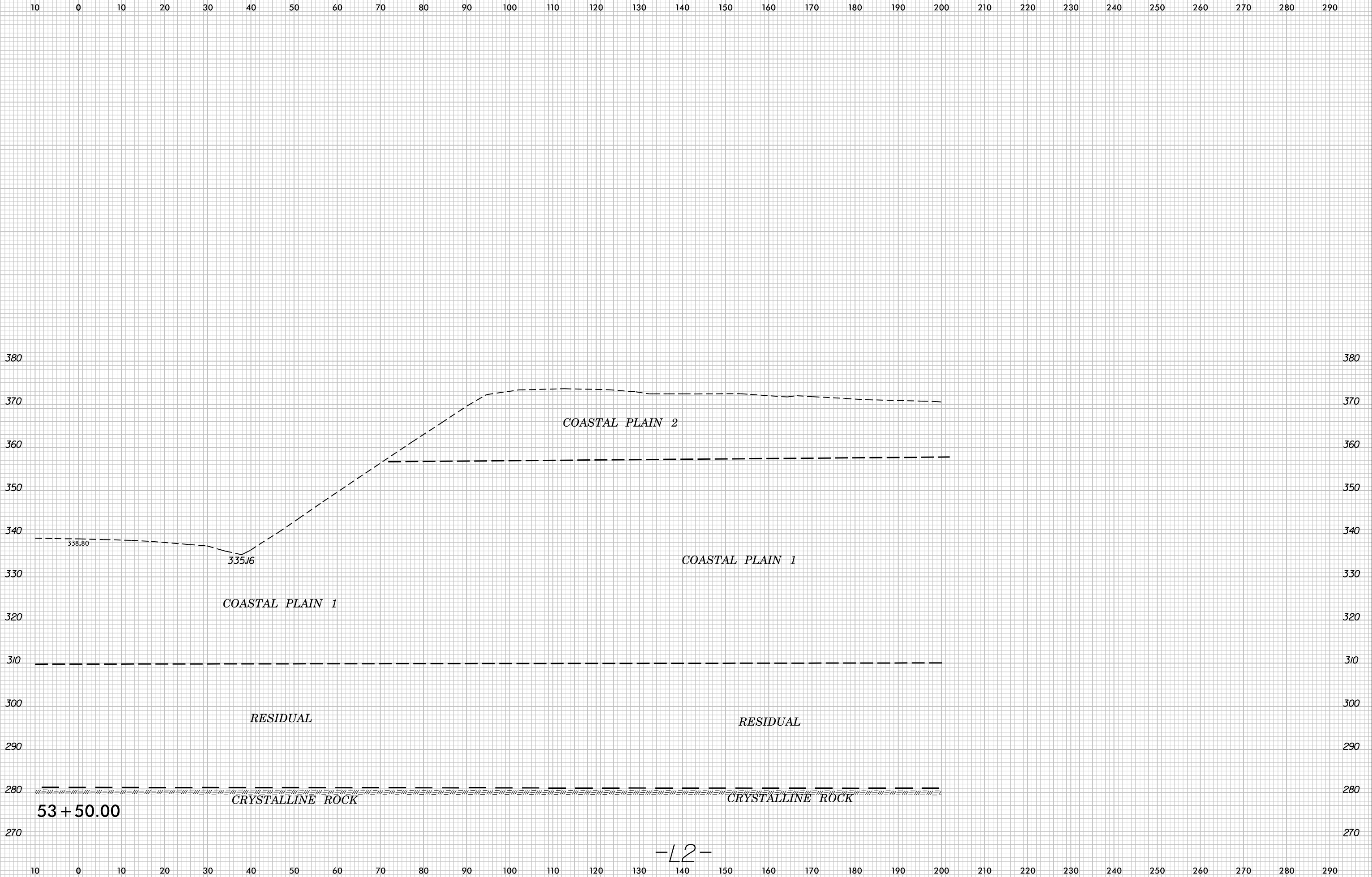
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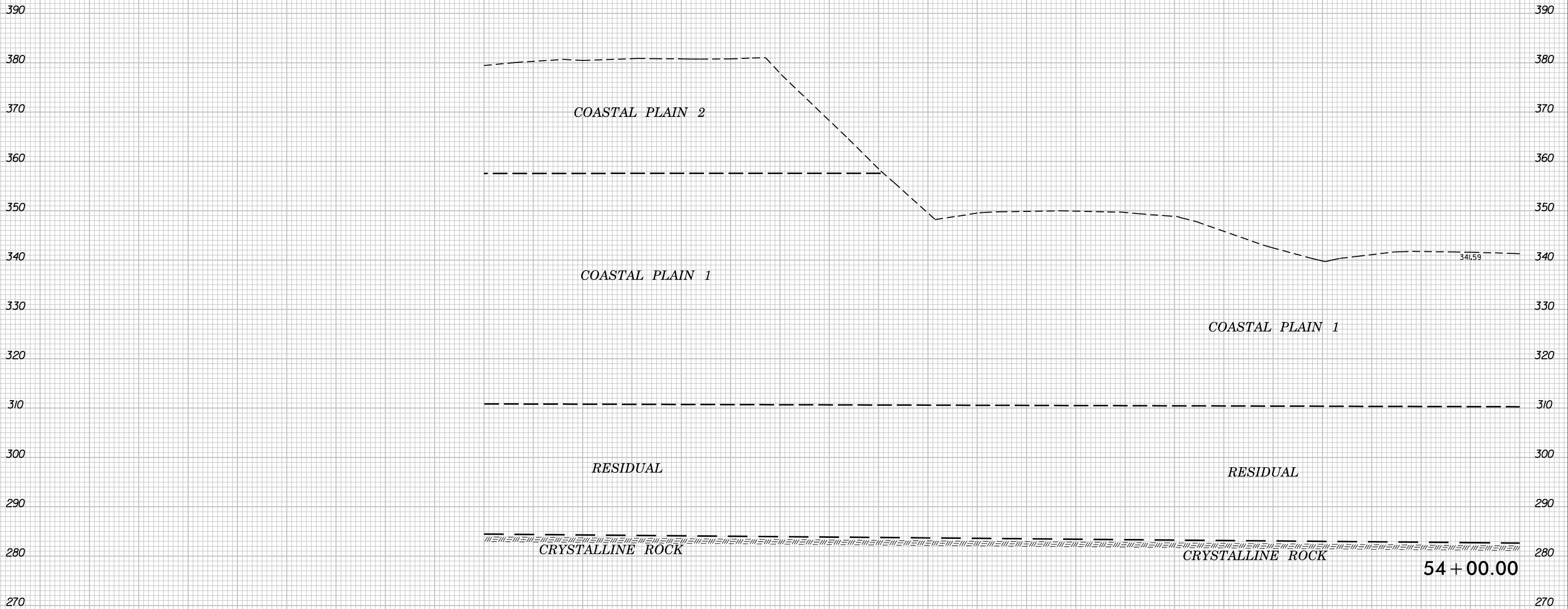


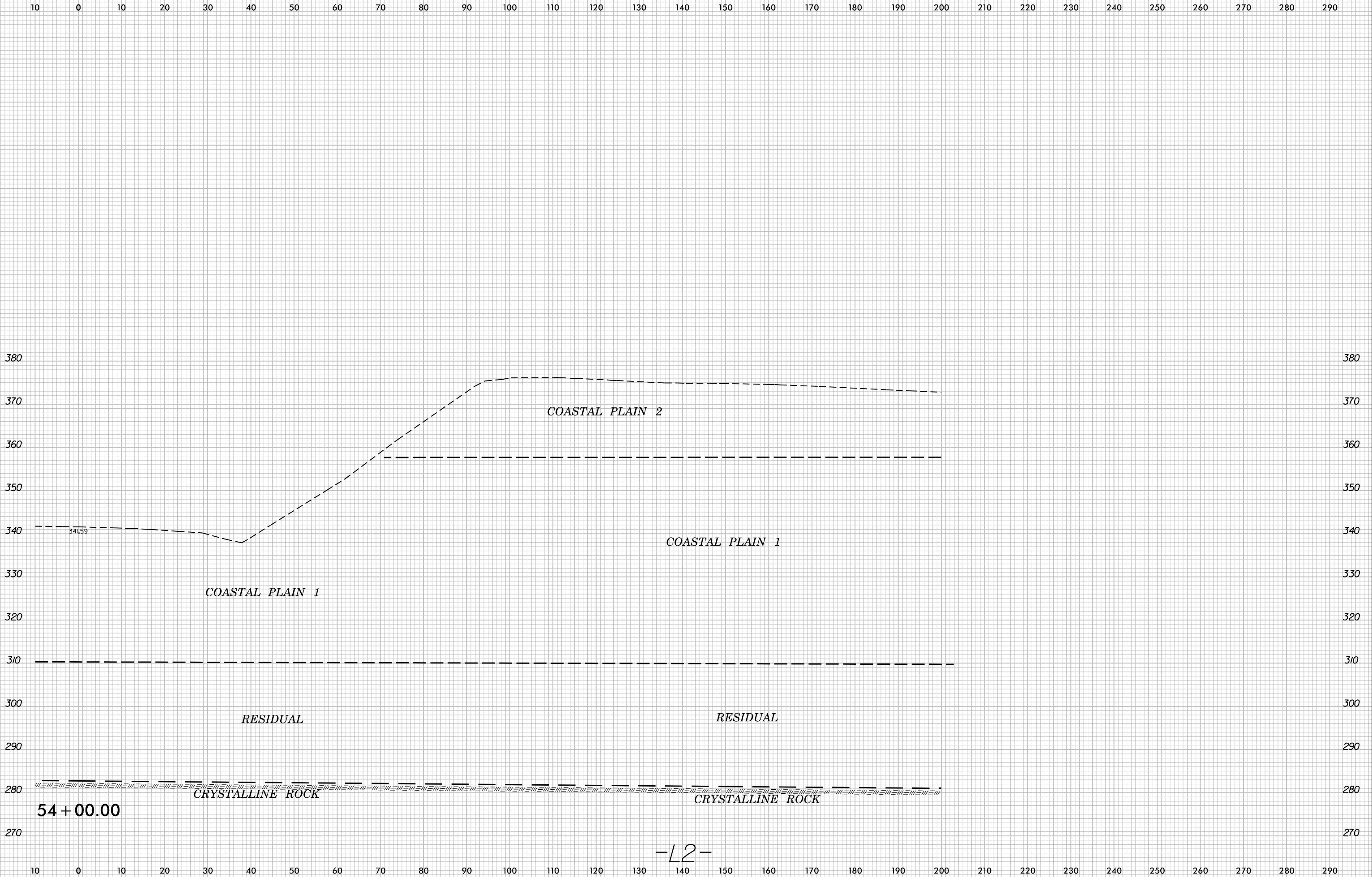
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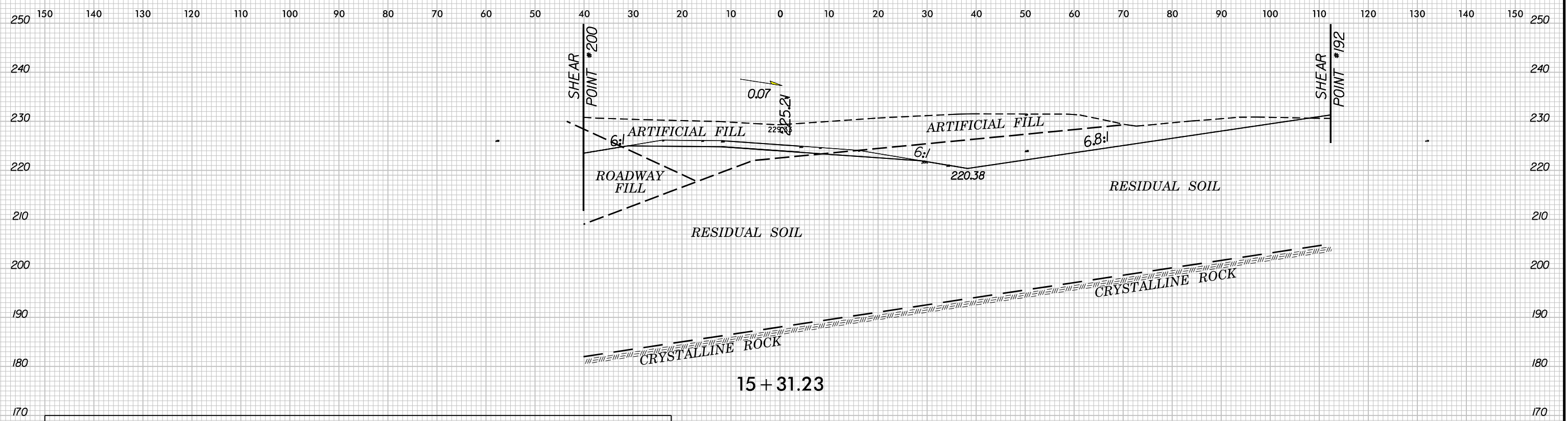




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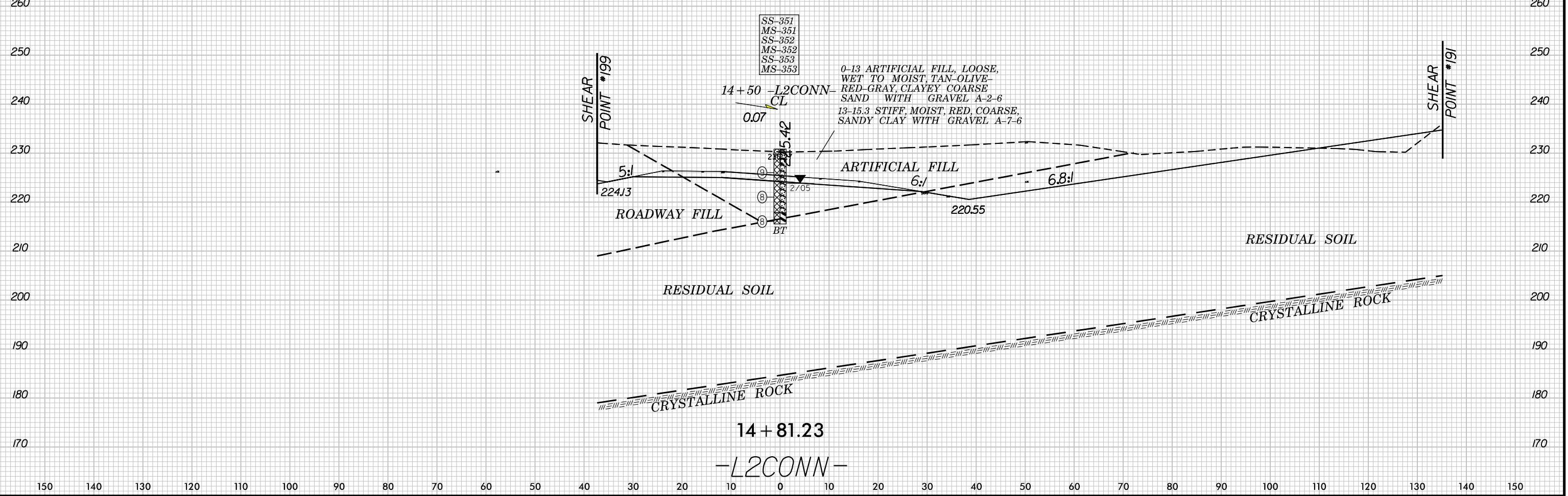






SOIL TEST RESULTS

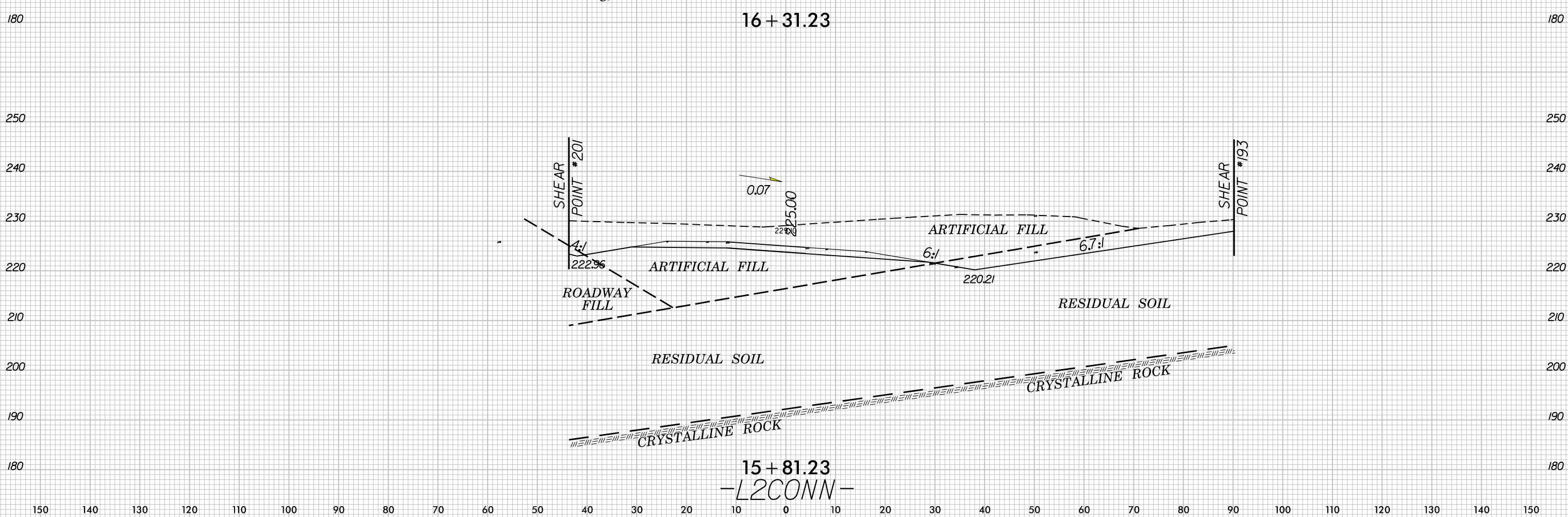
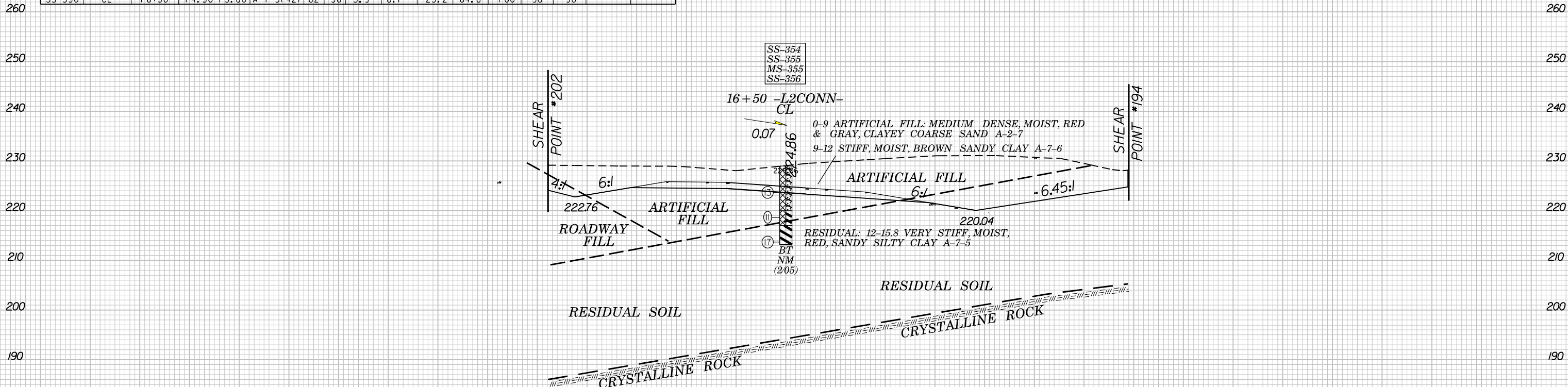
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							C. SAND	F. SAND	SILT	CLAY	10	40	200		
L2CONN															
SS-351	CL	14+50	3.80-5.30	A-2-7(3)	45	26	46.8	19.6	5.3	28.4	88	61	31	15.1	-
SS-352	CL	14+50	8.80-10.30	A-2-6(2)	39	21	40.6	20.7	7.3	31.4	85	62	35	-	-
SS-353	CL	14+50	13.80-15.30	A-7-6(5)	44	24	36.4	19.6	9.6	34.4	89	68	42	14.8	-



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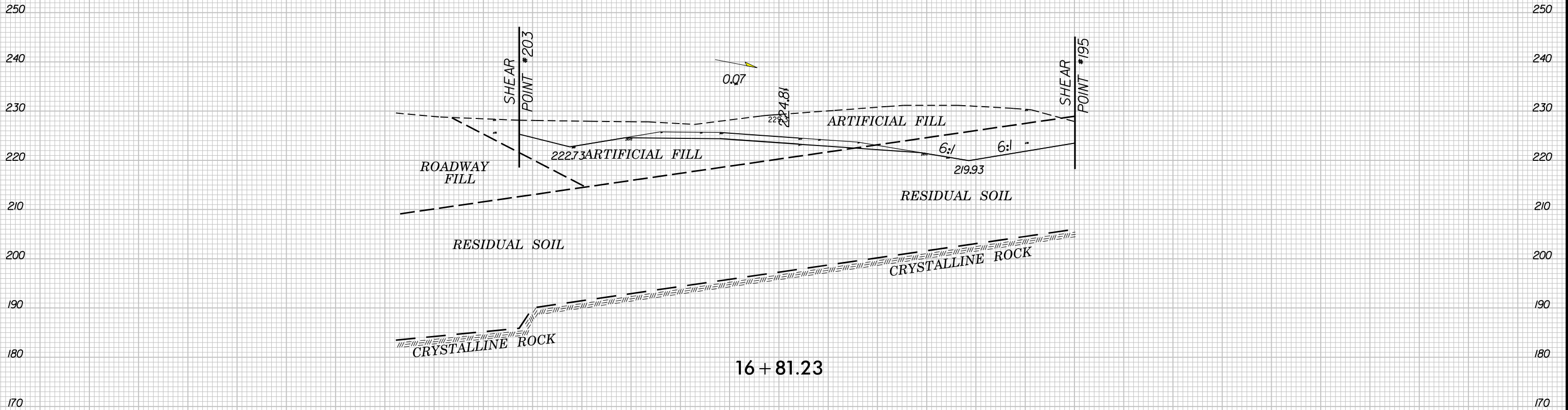
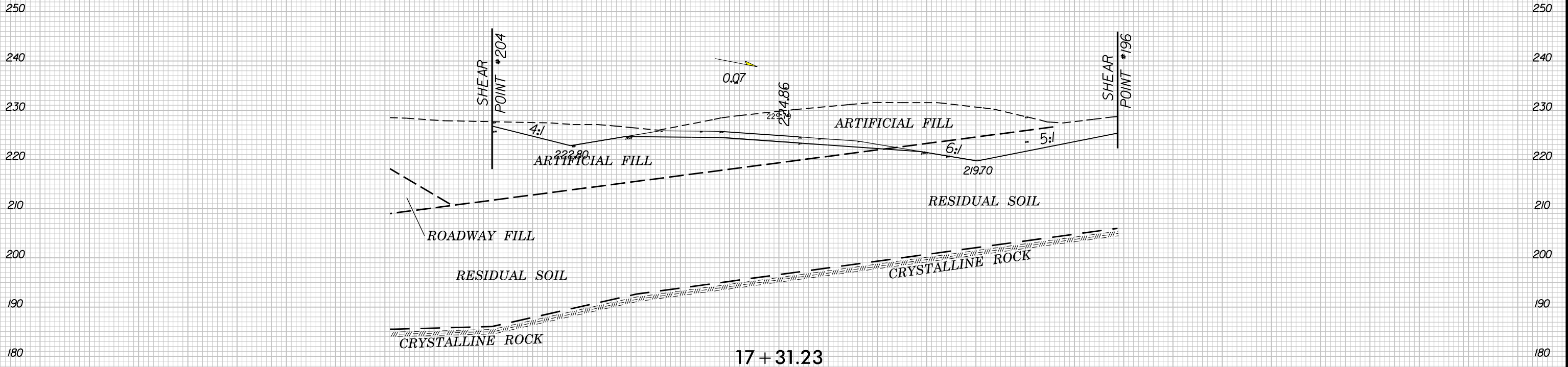
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
L2CONN															
SS-354	CL	16+50	4.30-5.80	A-2-7(3)	41	24	43.2	21.5	7.0	28.4	90	65	34	-	-
SS-355	CL	16+50	9.30-10.80	A-7-6(25)	67	41	20.1	11.3	9.8	58.8	91	78	64	31.4	-
SS-356	CL	16+50	14.30-15.80	A-7-5(42)	82	36	3.9	8.1	23.2	64.8	100	98	90	-	-



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

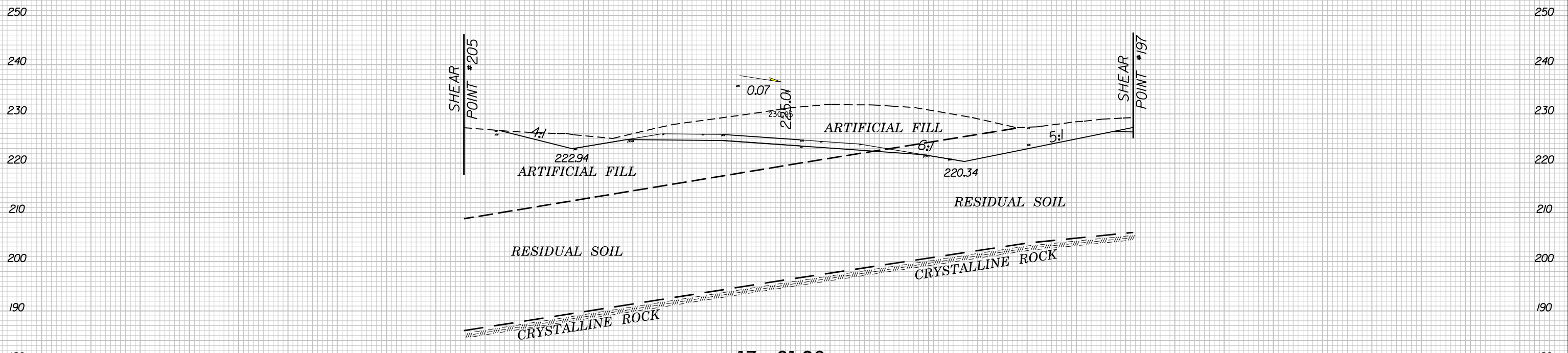
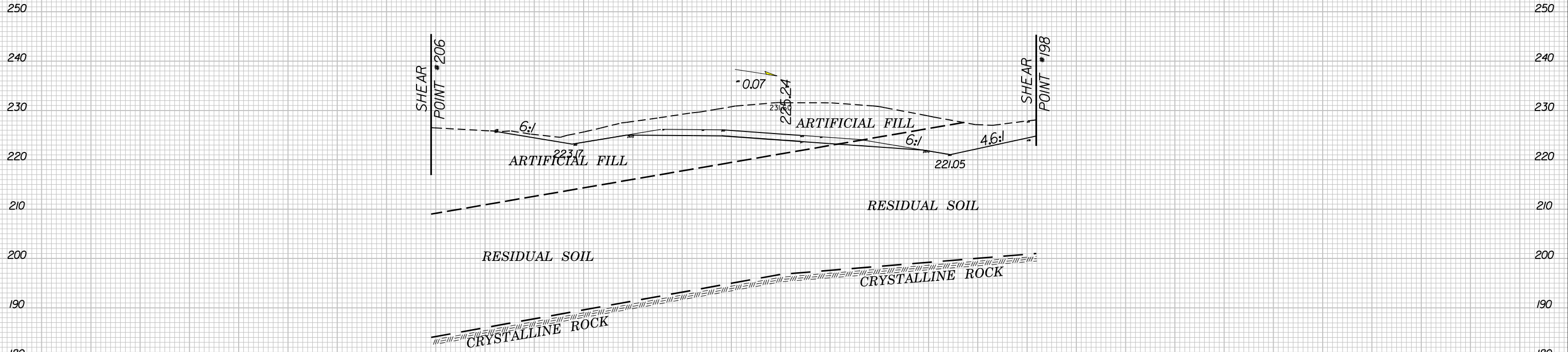
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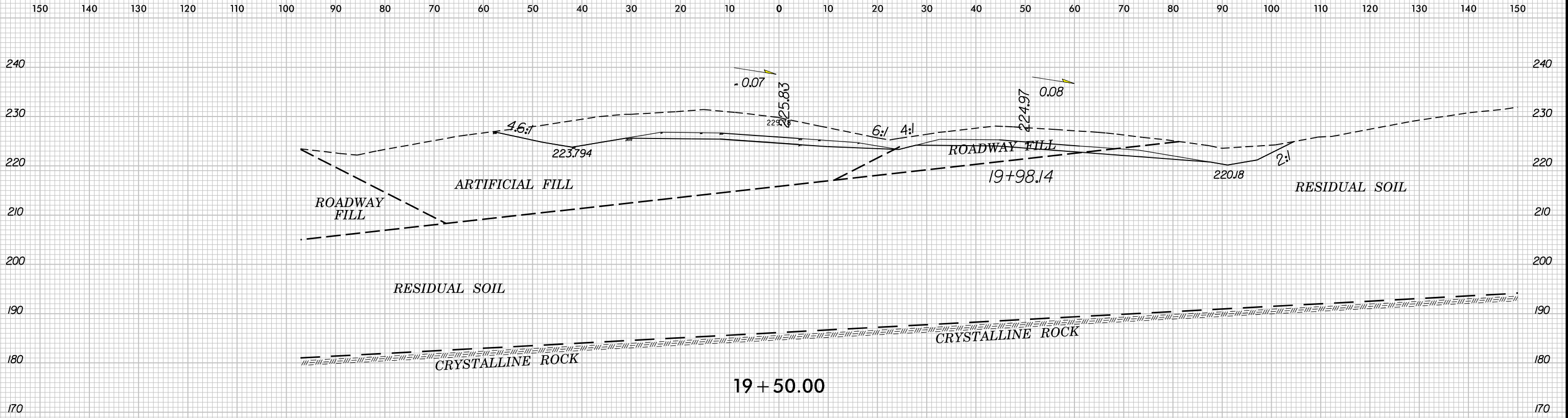
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-L2CONN-

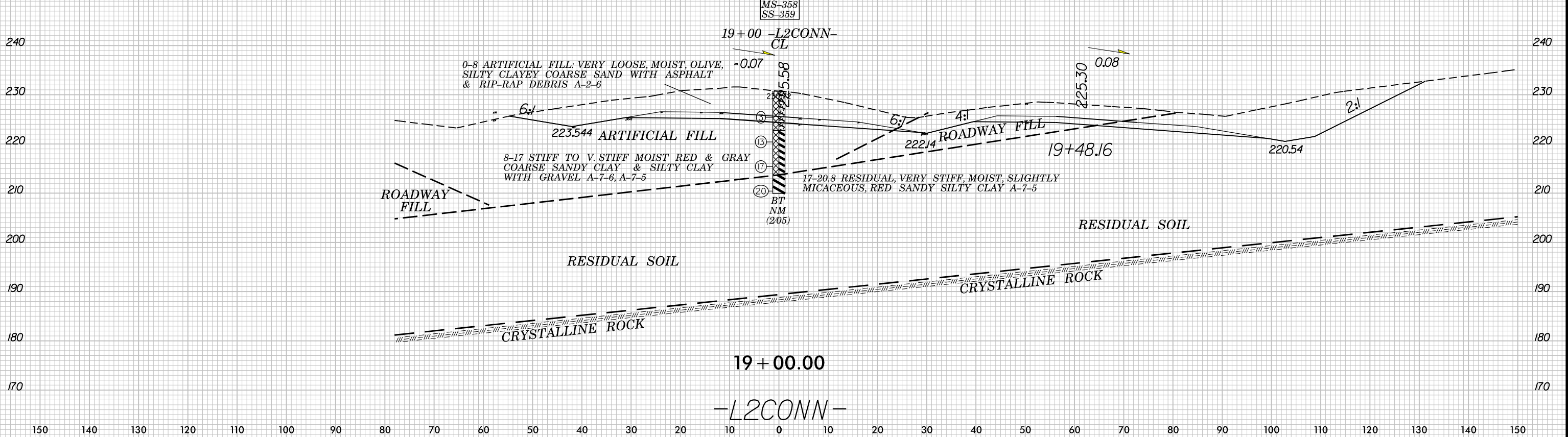
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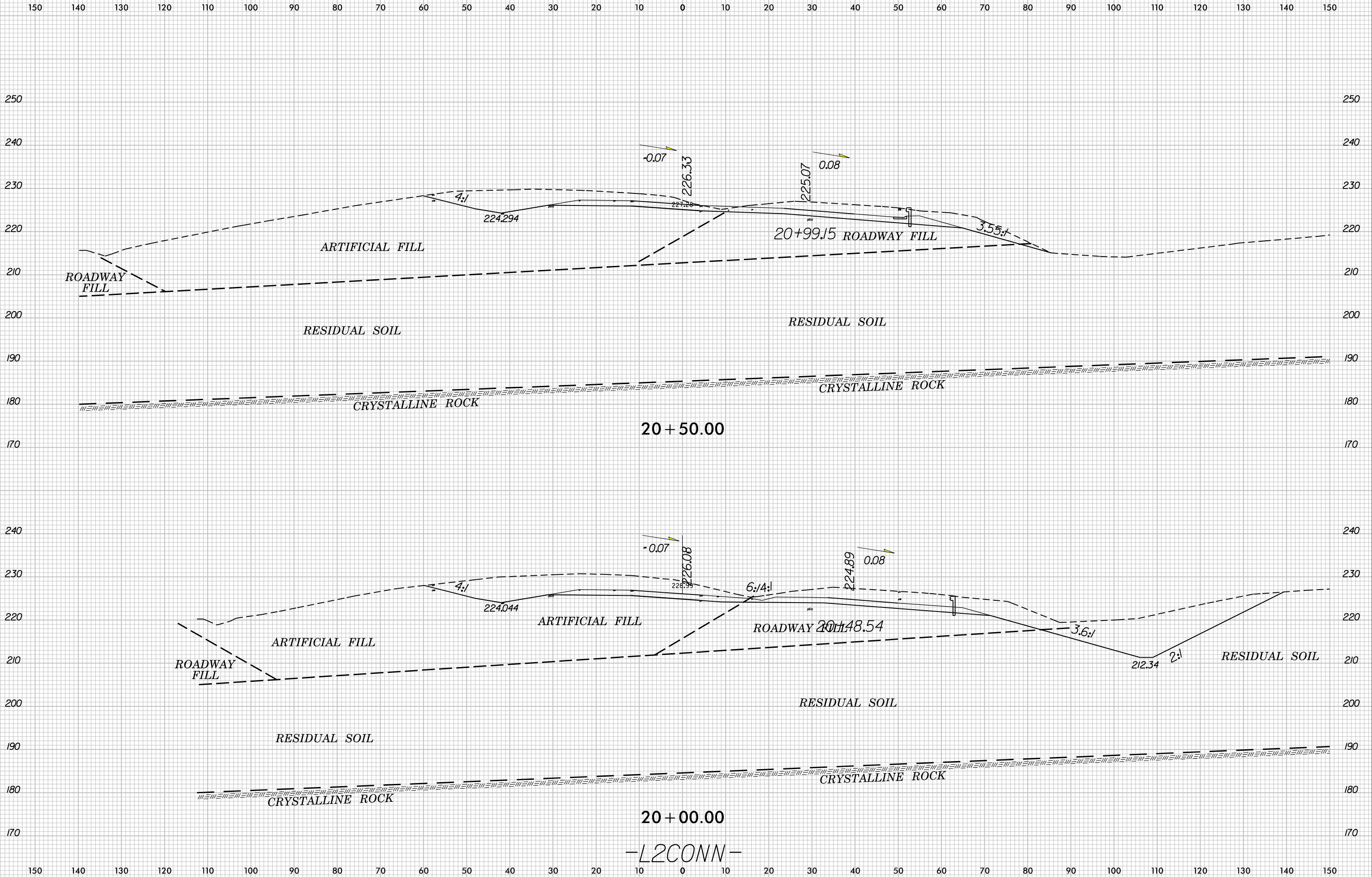


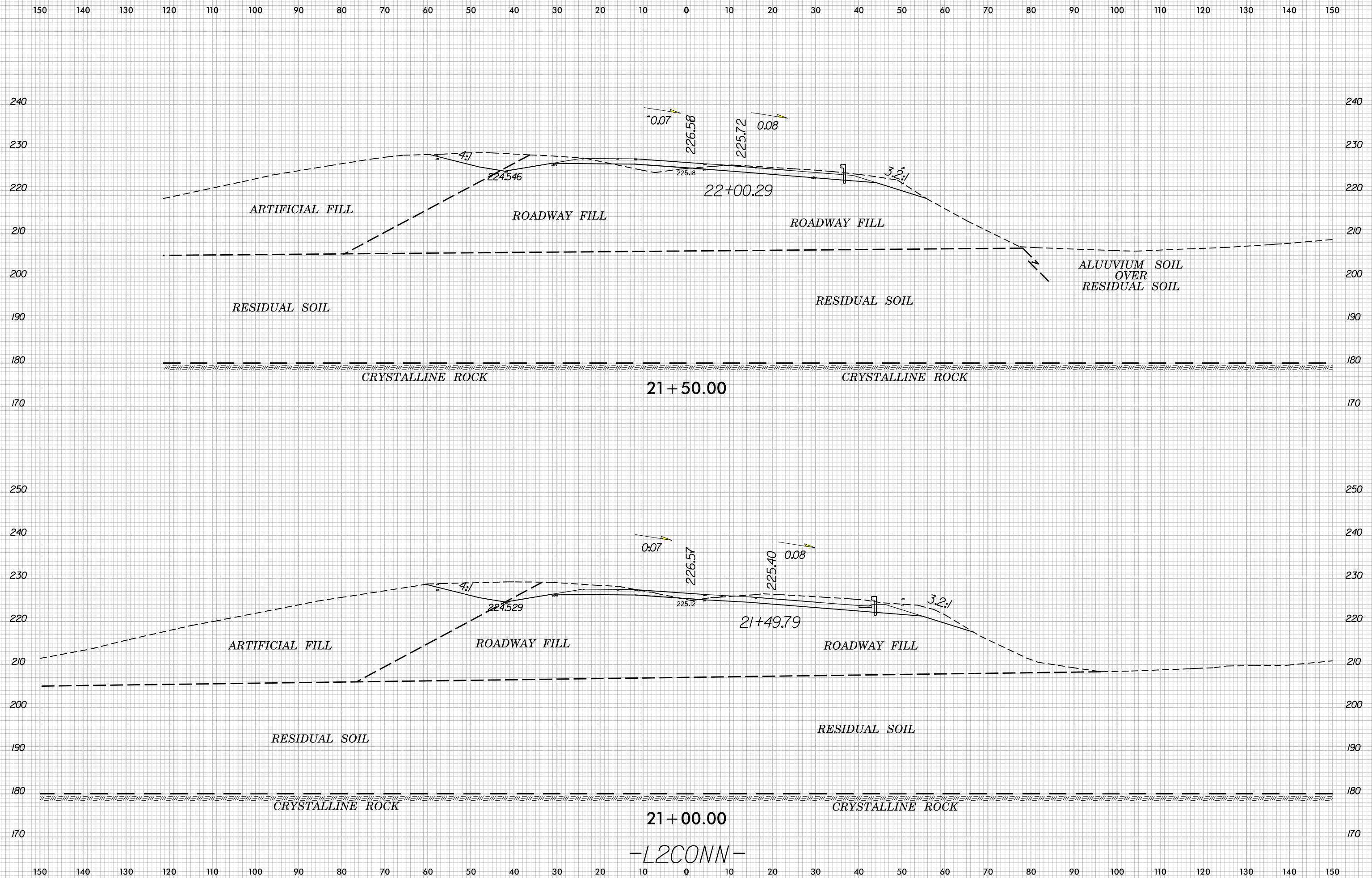
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
L2CONN															
SS-357	CL	19+00	4.30-5.80	A-2-6(0)	38	12	44.9	22.7	12.1	20.2	92	64	33	24.6	-
SS-358	CL	19+00	9.30-10.80	A-7-6(6)	46	28	42.4	14.1	9.2	34.3	93	68	42	14.6	-
SS-359	CL	19+00	14.30-15.80	A-7-5(40)	79	32	3.4	5.1	24.8	66.7	100	98	93	-	-

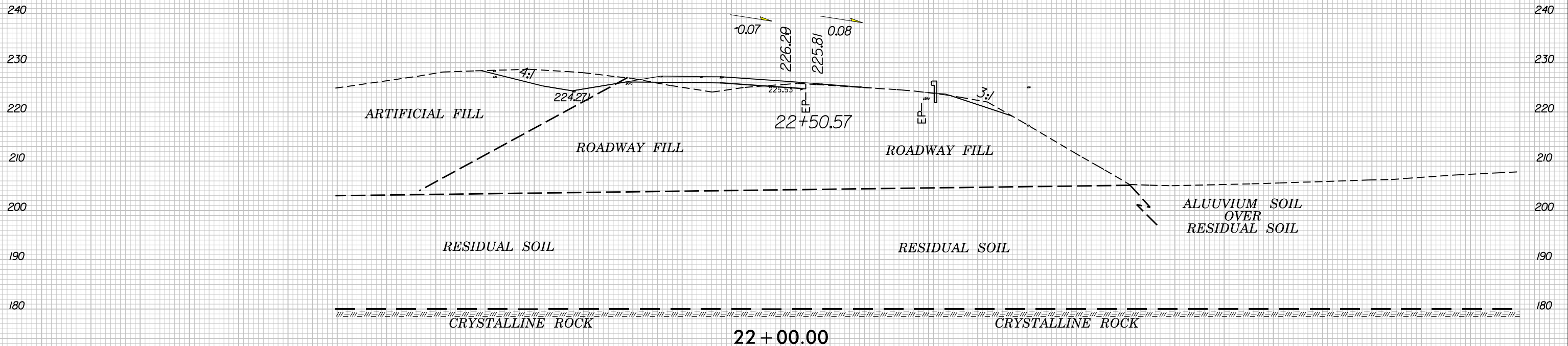
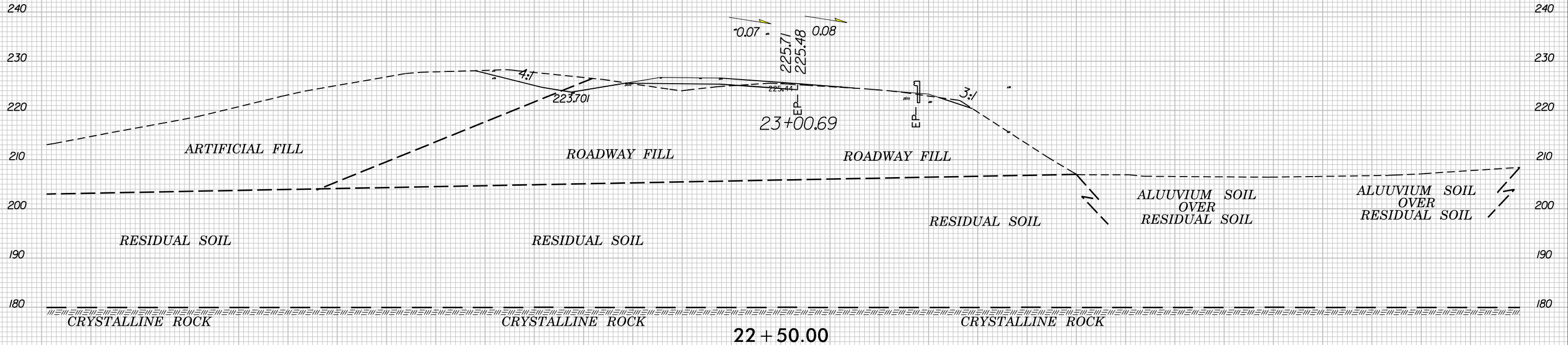






8/23/99

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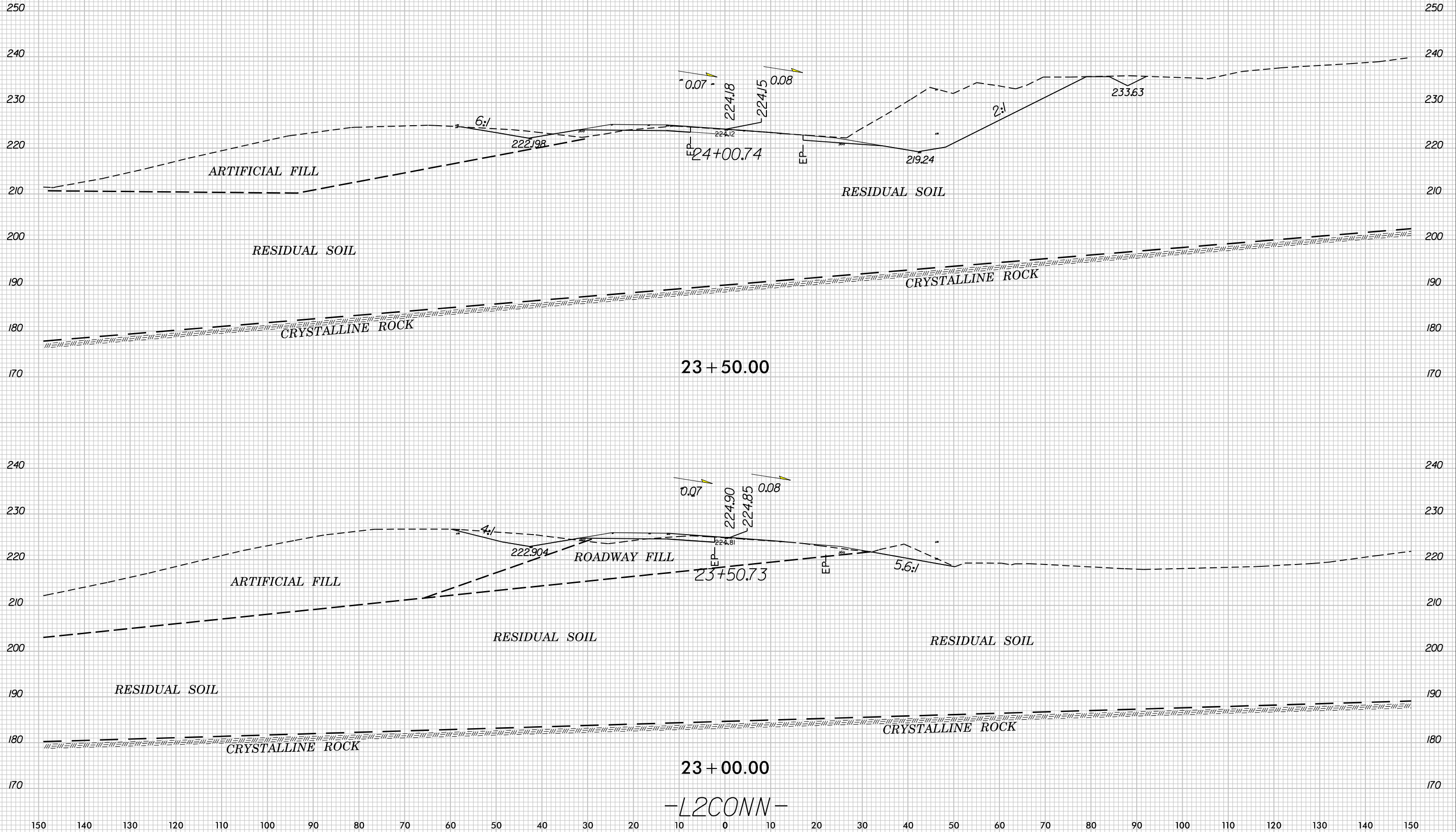


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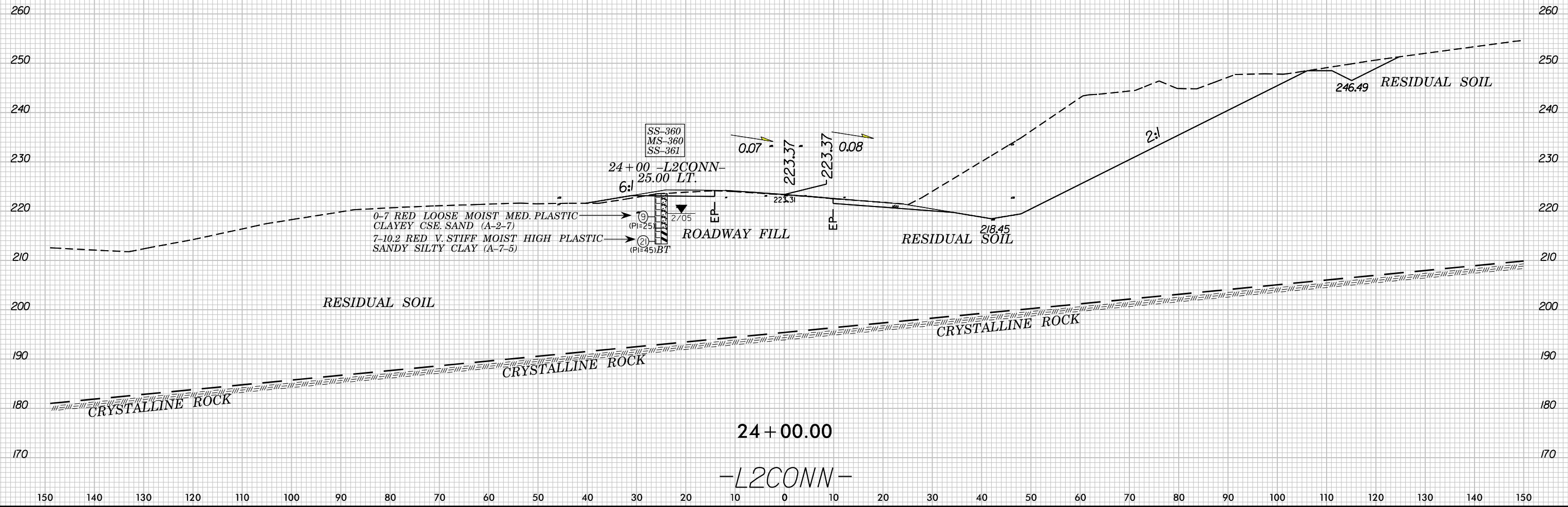
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8/23/99

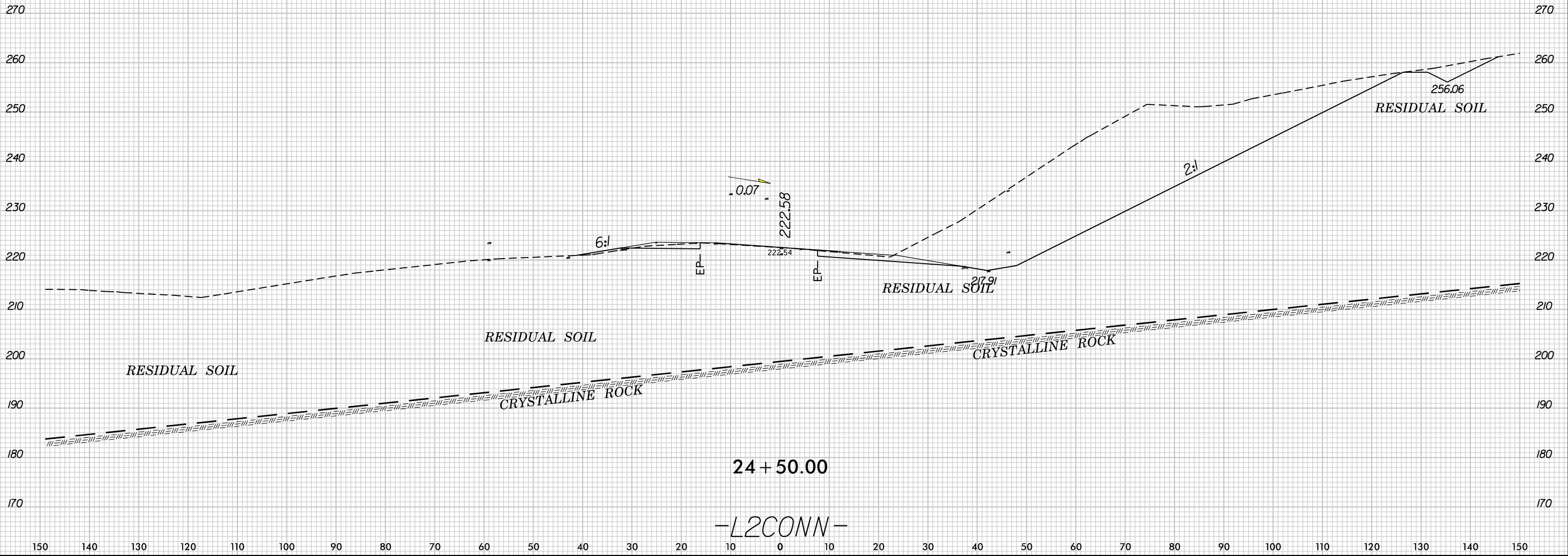
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F SAND	SILT	CLAY	10	40	200		
SS-360	25 LT	24+00	3.70-5.20	A-2-7(2)	45	25	49.7	15.8	6.3	28.3	77	47	28	18.6	-
SS-361	25 LT	24+00	8.70-10.20	A-7-5(5)	86	45	2.4	8.3	22.6	66.7	100	99	92	-	-



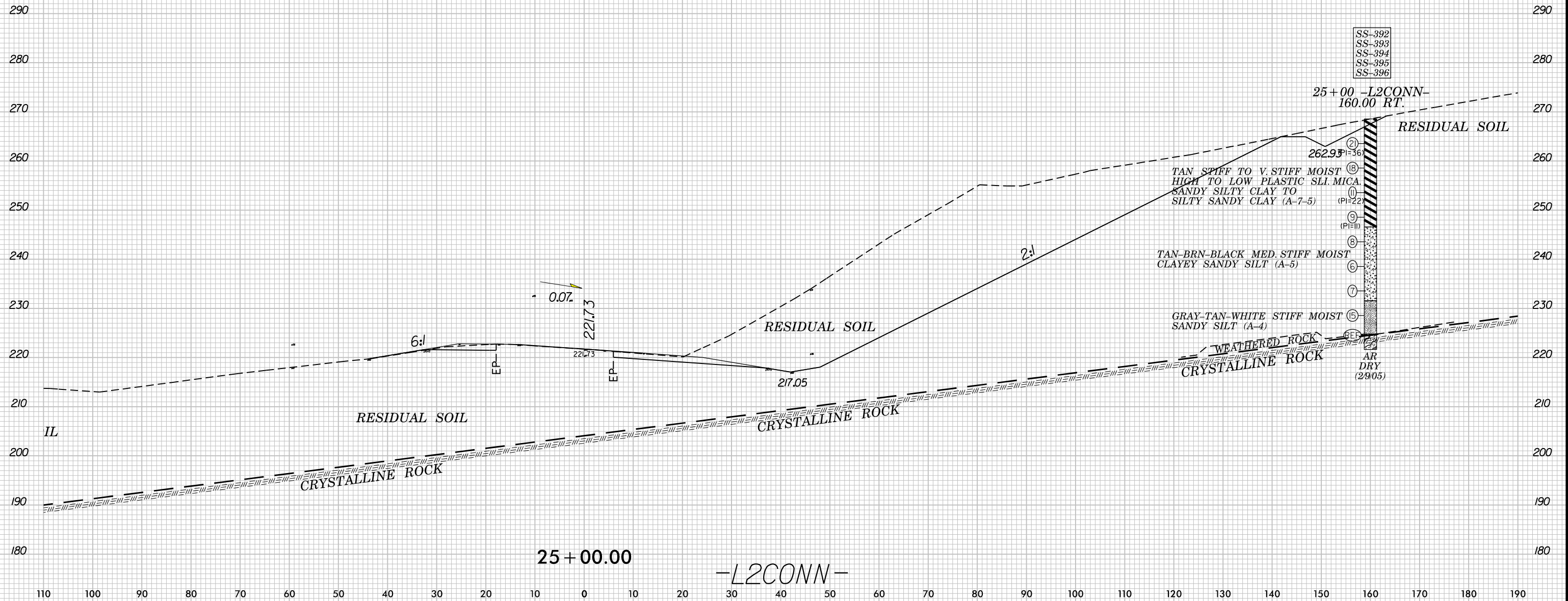
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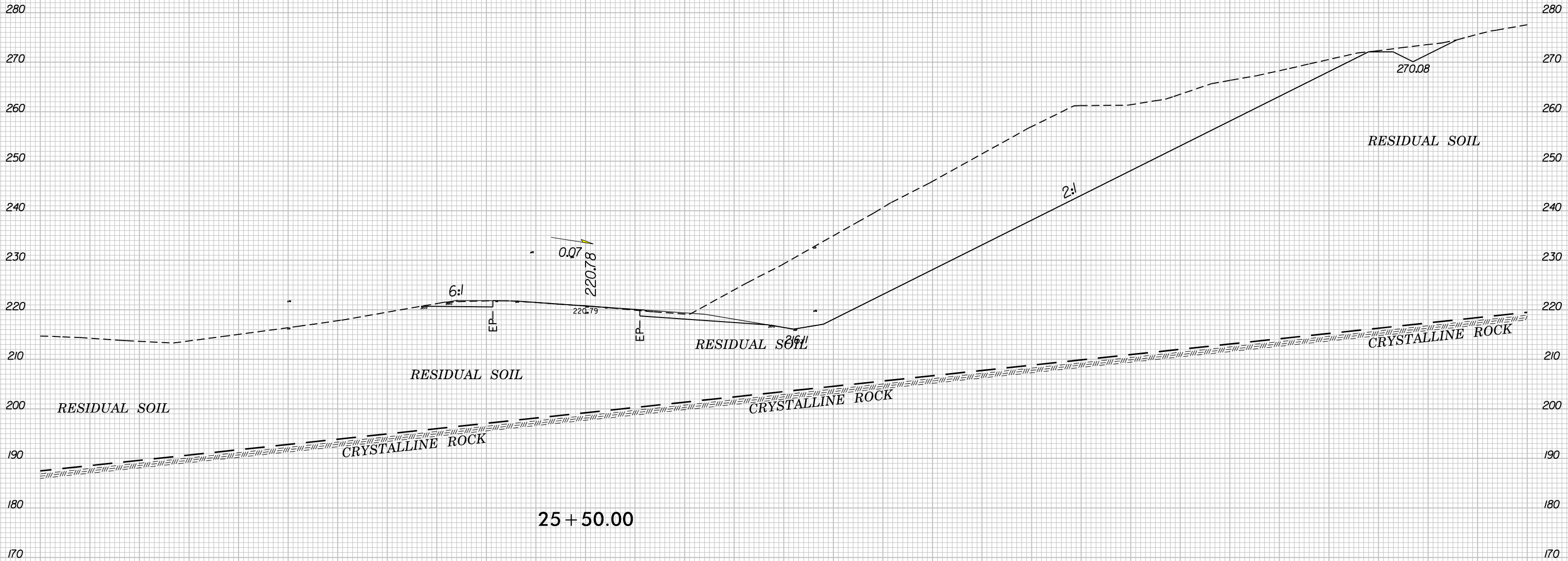


110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-392	160RT	25+00	4.00-5.50	A-7-5(41)	75	36	4.4	5.1	11.7	78.8	100	97	92	-	-
SS-393	160RT	25+00	14.00-15.50	A-7-5(25)	67	22	4.7	13.3	30.9	51.1	100	99	85	-	-
SS-394	160RT	25+00	19.00-20.50	A-7-5(8)	52	11	7.8	39.1	12.3	40.9	100	97	64	-	-
SS-395	160RT	25+00	29.00-30.50	A-5(0)	47	NP	25.4	33.7	28.6	12.3	100	84	49	-	-
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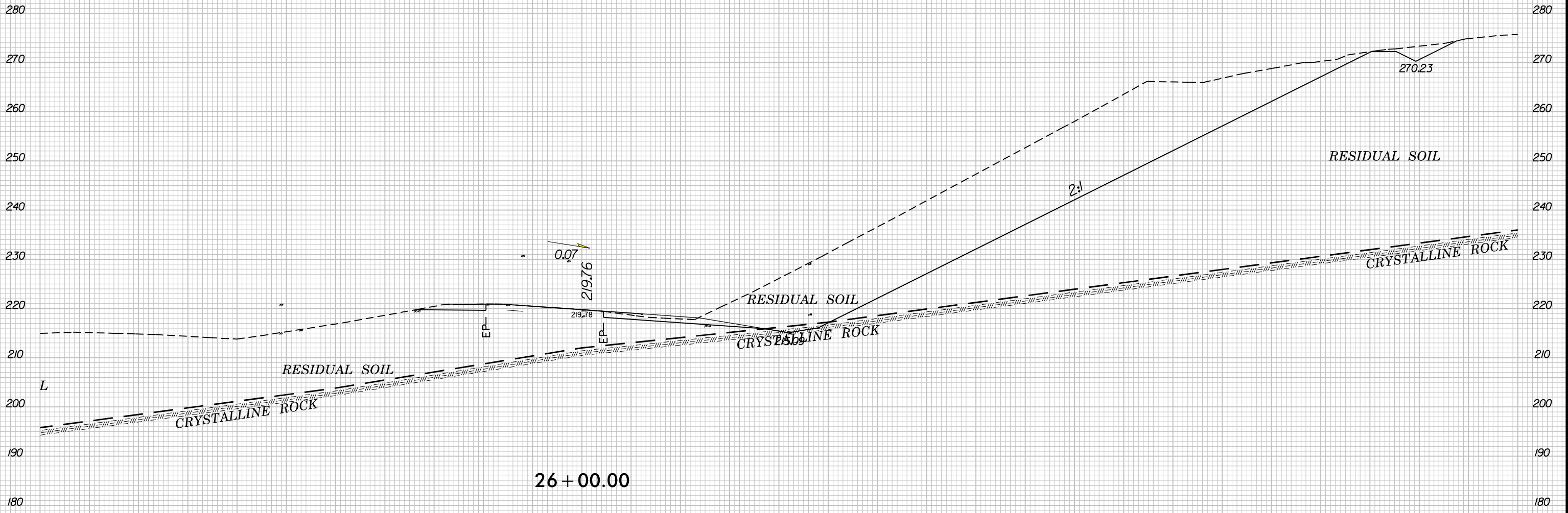


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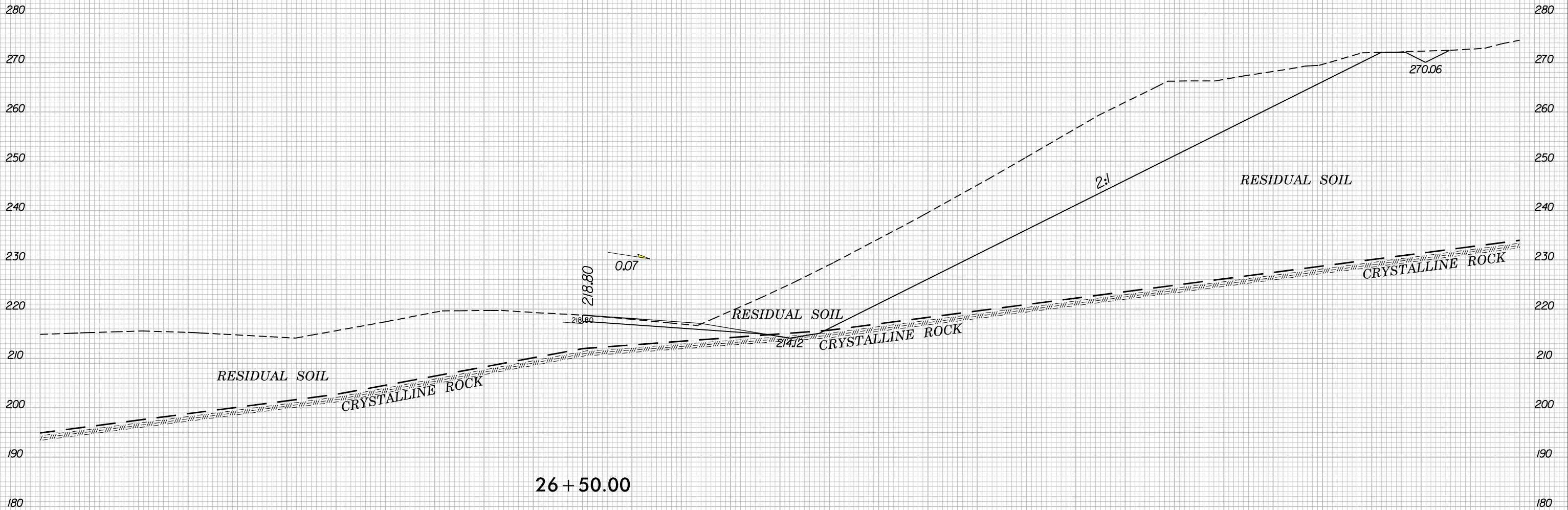


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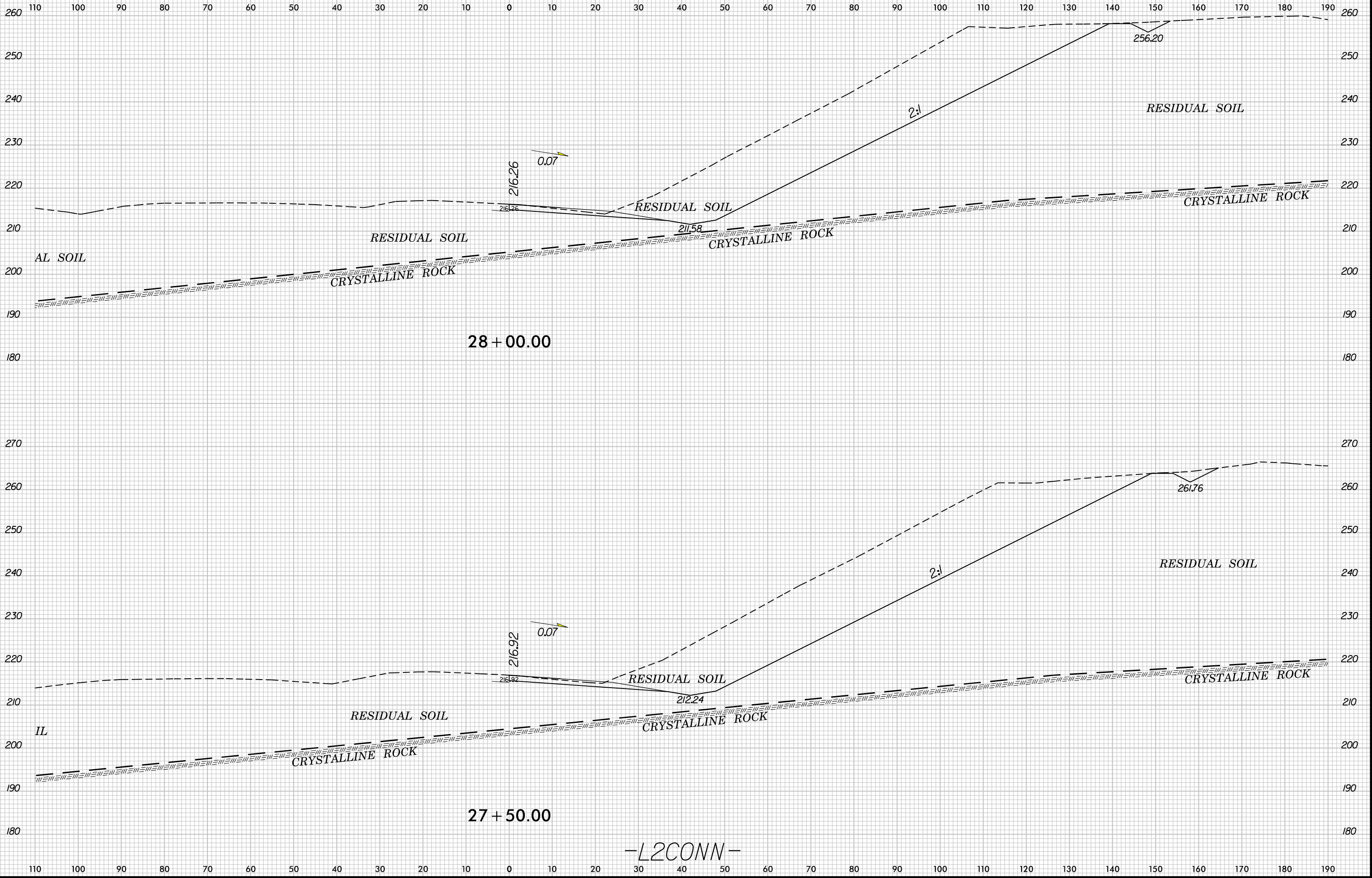
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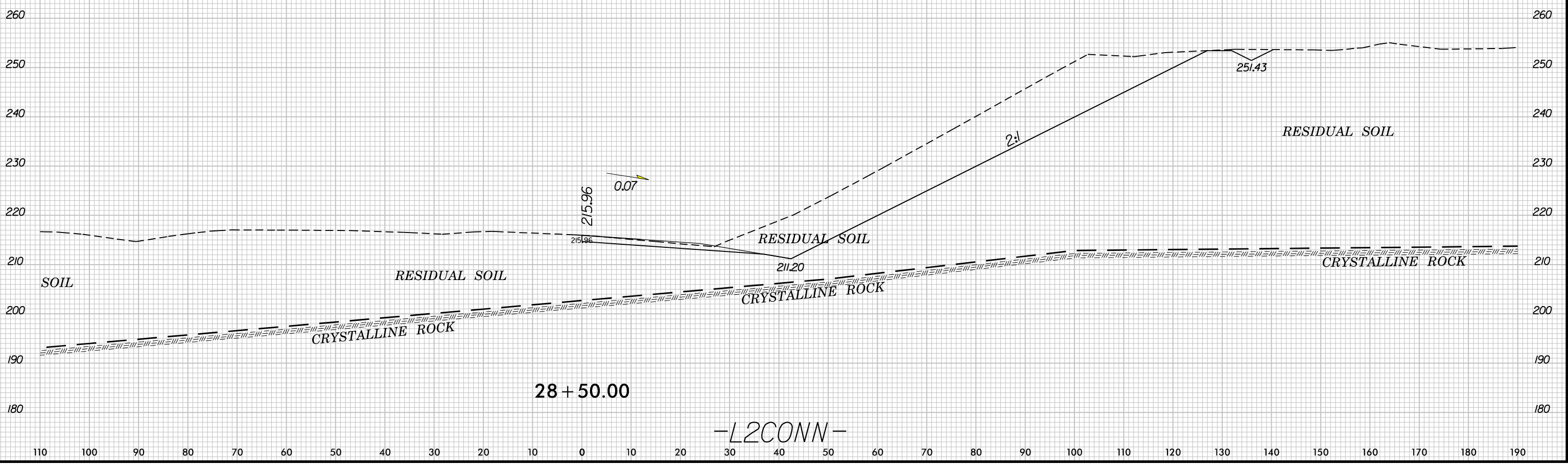
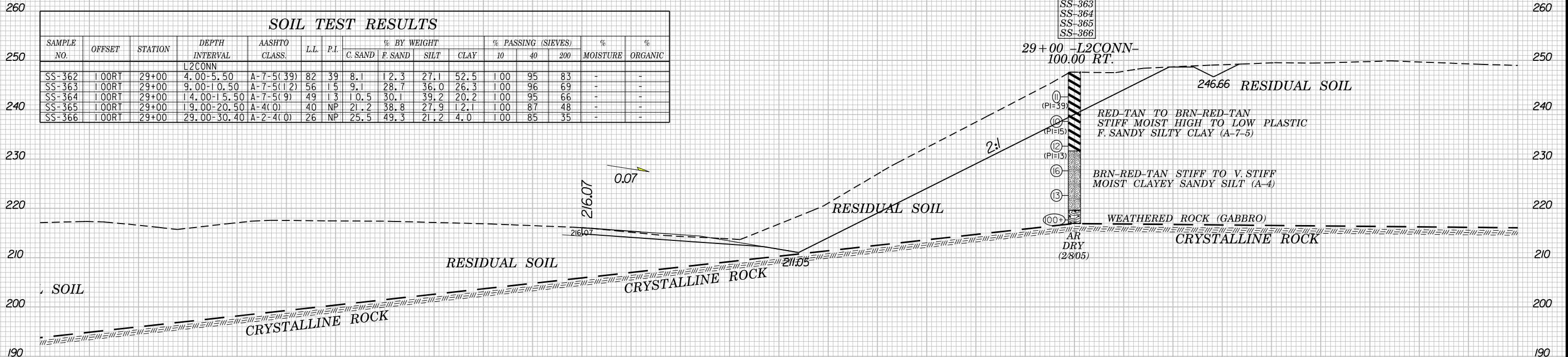


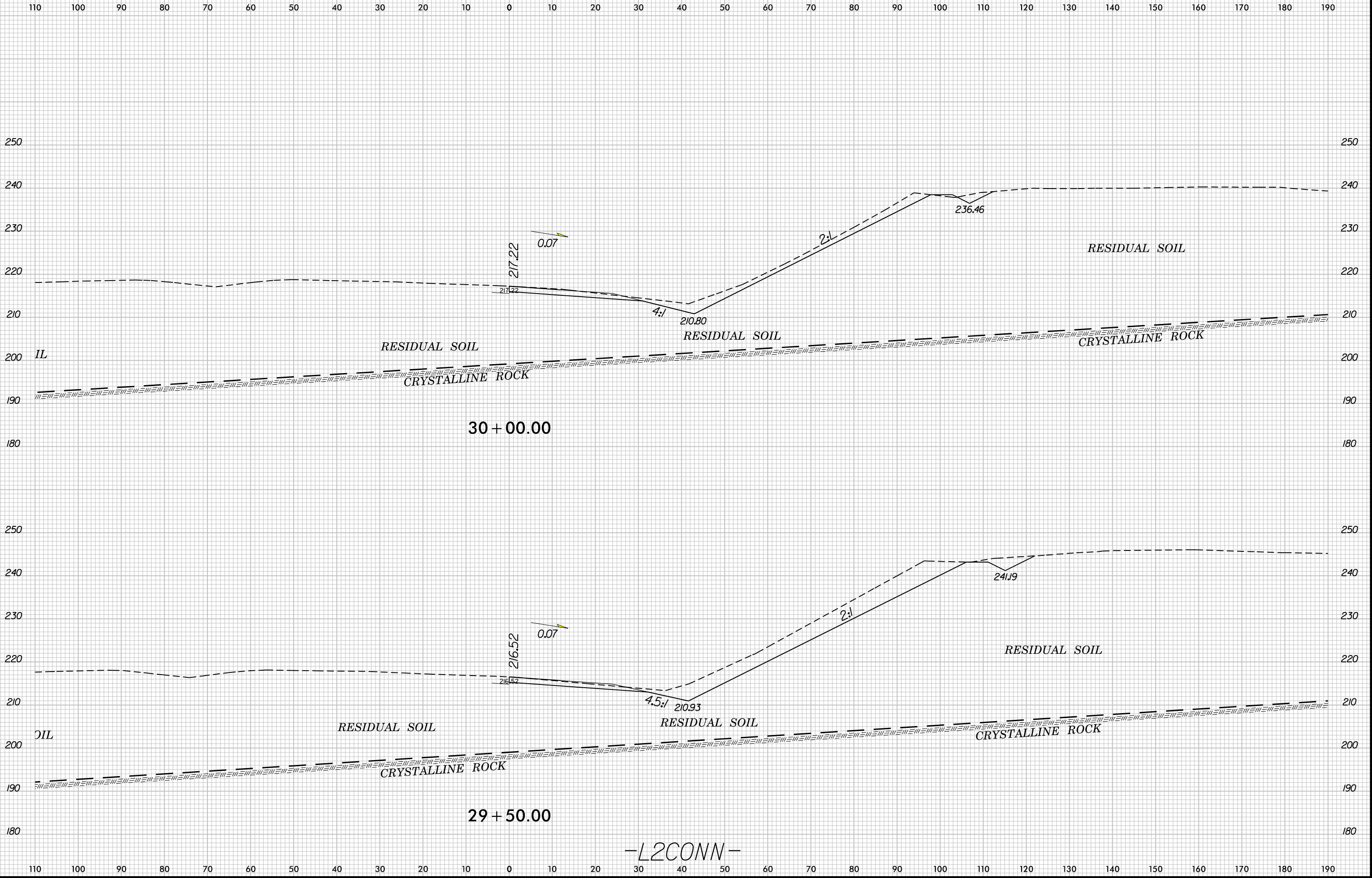
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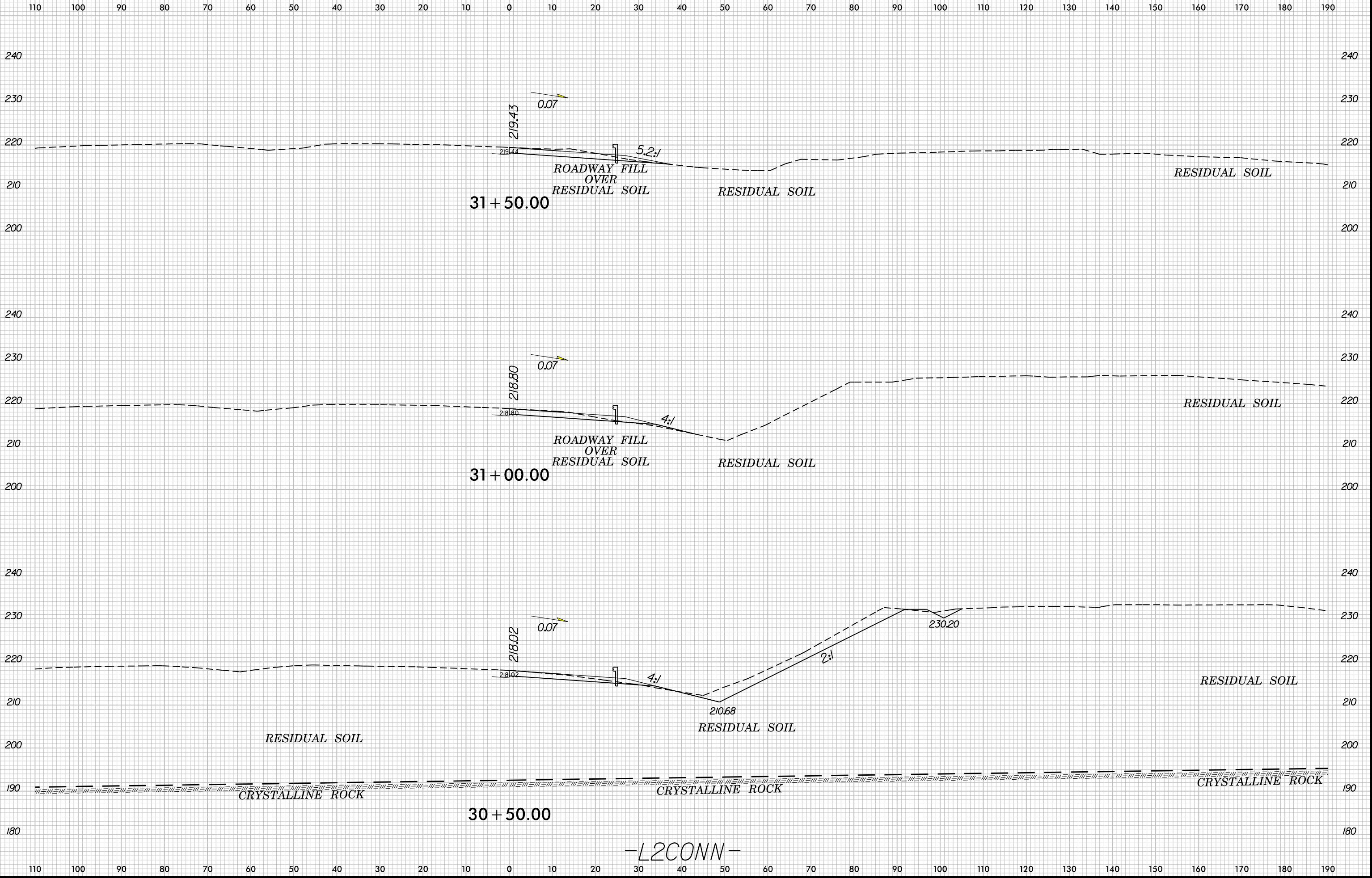


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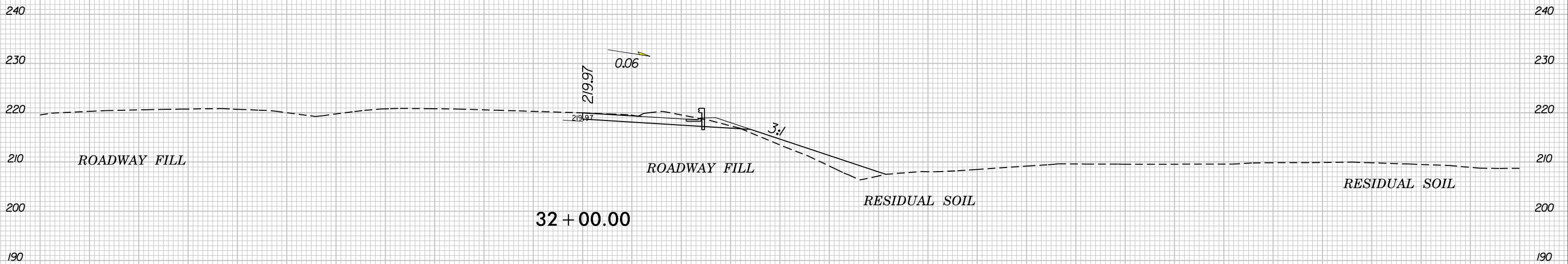
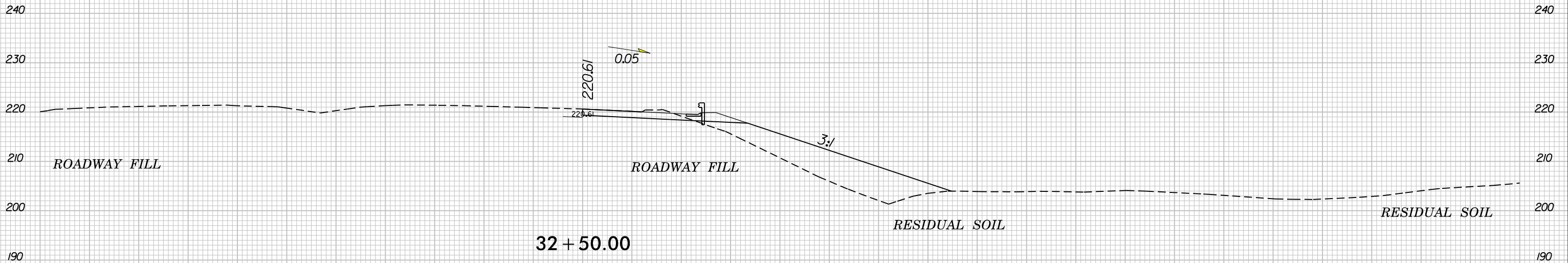
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
L2CONN															
SS-362	100RT	29+00	4.00-5.50	A-7-5(39)	82	39	8.1	12.3	27.1	52.5	100	95	83	-	-
SS-363	100RT	29+00	9.00-10.50	A-7-5(12)	56	15	9.1	28.7	36.0	26.3	100	96	69	-	-
SS-364	100RT	29+00	14.00-15.50	A-7-5(9)	49	13	10.5	30.1	39.2	20.2	100	95	66	-	-
SS-365	100RT	29+00	19.00-20.50	A-4(0)	40	NP	21.2	38.8	27.9	12.1	100	87	48	-	-
SS-366	100RT	29+00	29.00-30.40	A-2-4(0)	26	NP	25.5	49.3	21.2	4.0	100	85	35	-	-





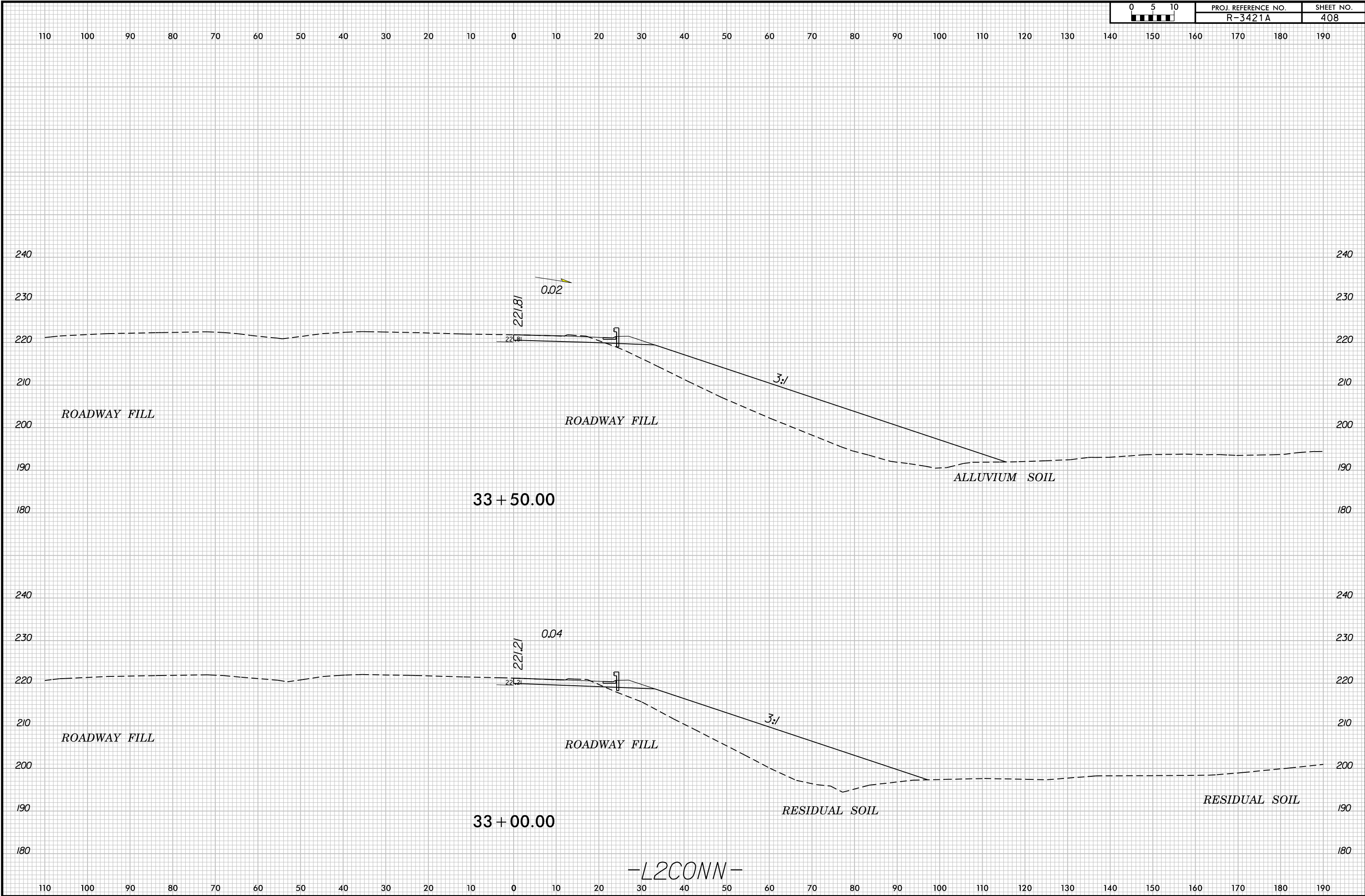


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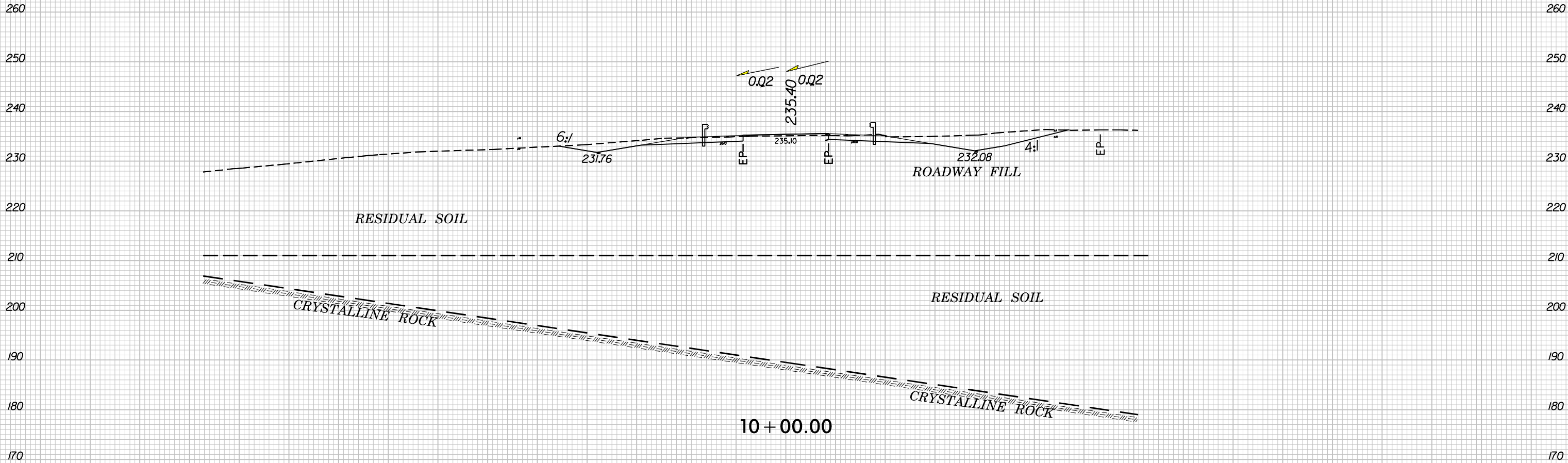


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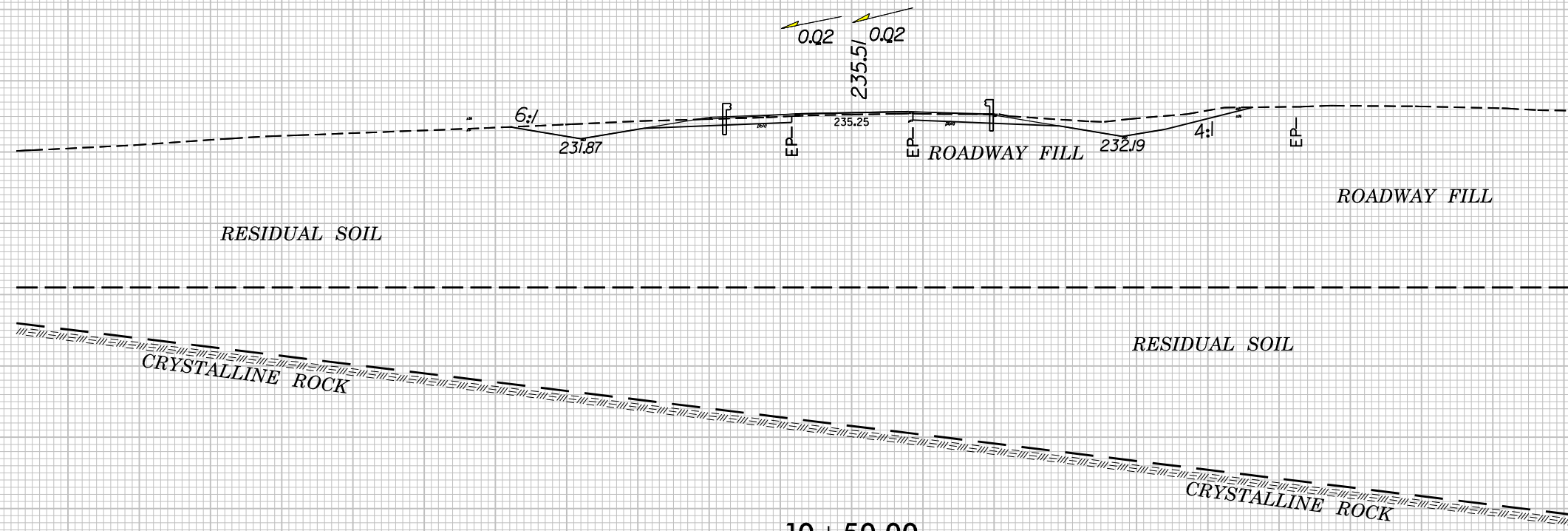


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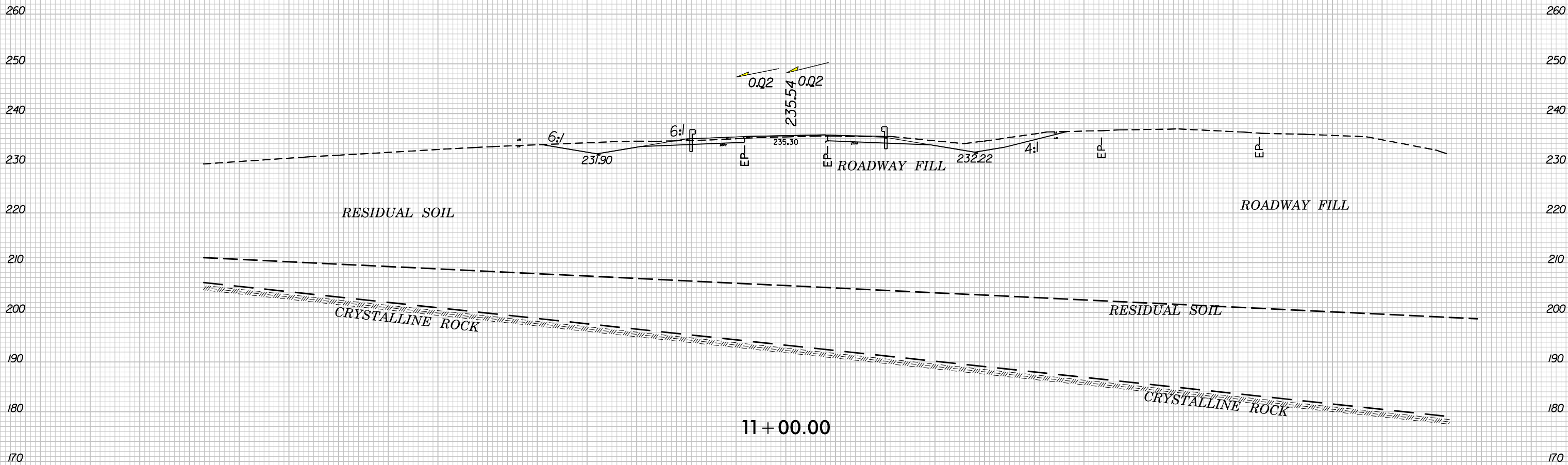


10 + 50.00

-L2RT-

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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

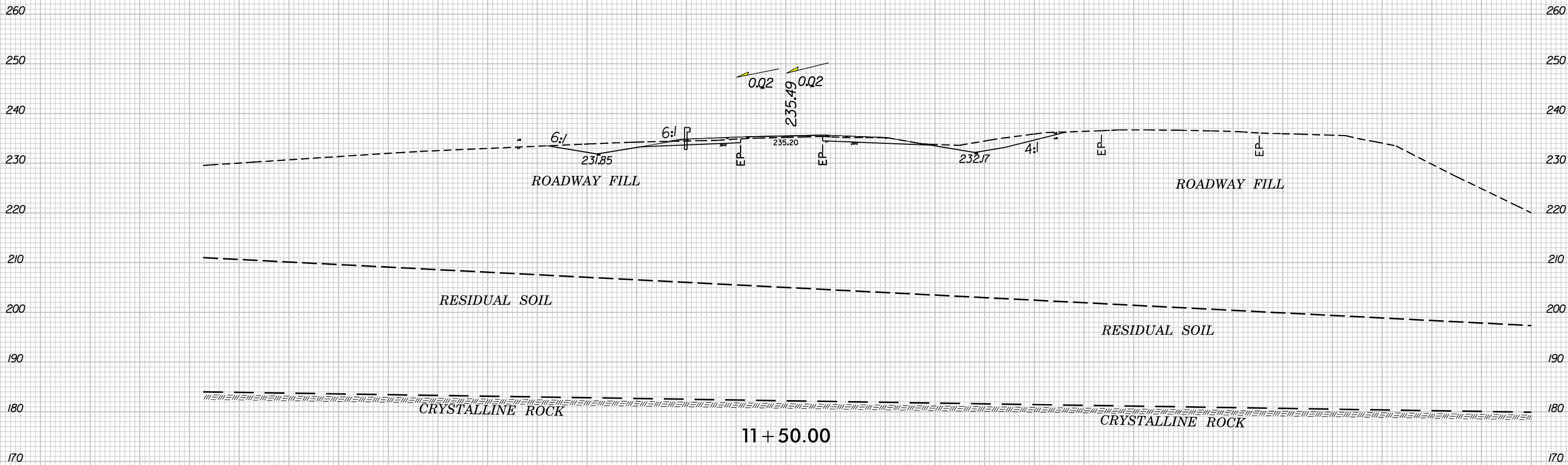


11 + 00.00

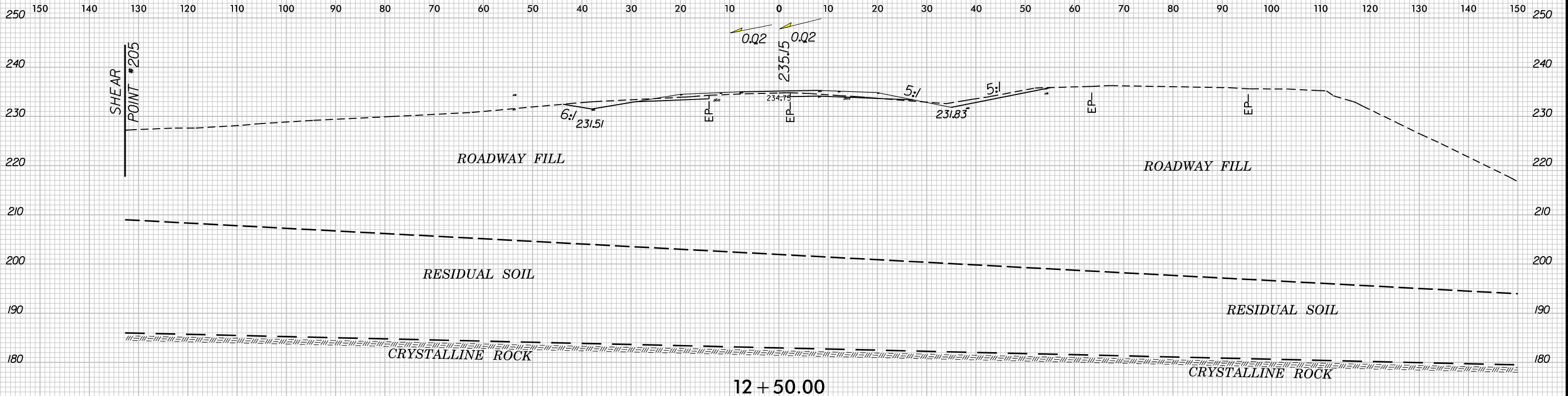
-L2RT-

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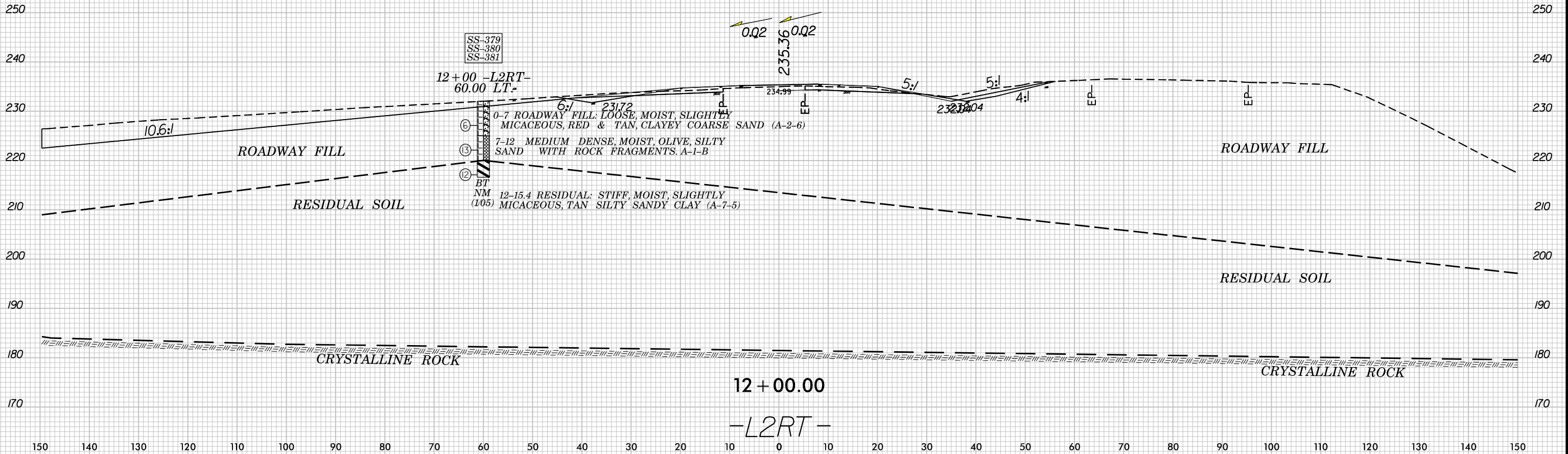
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12 + 50.00

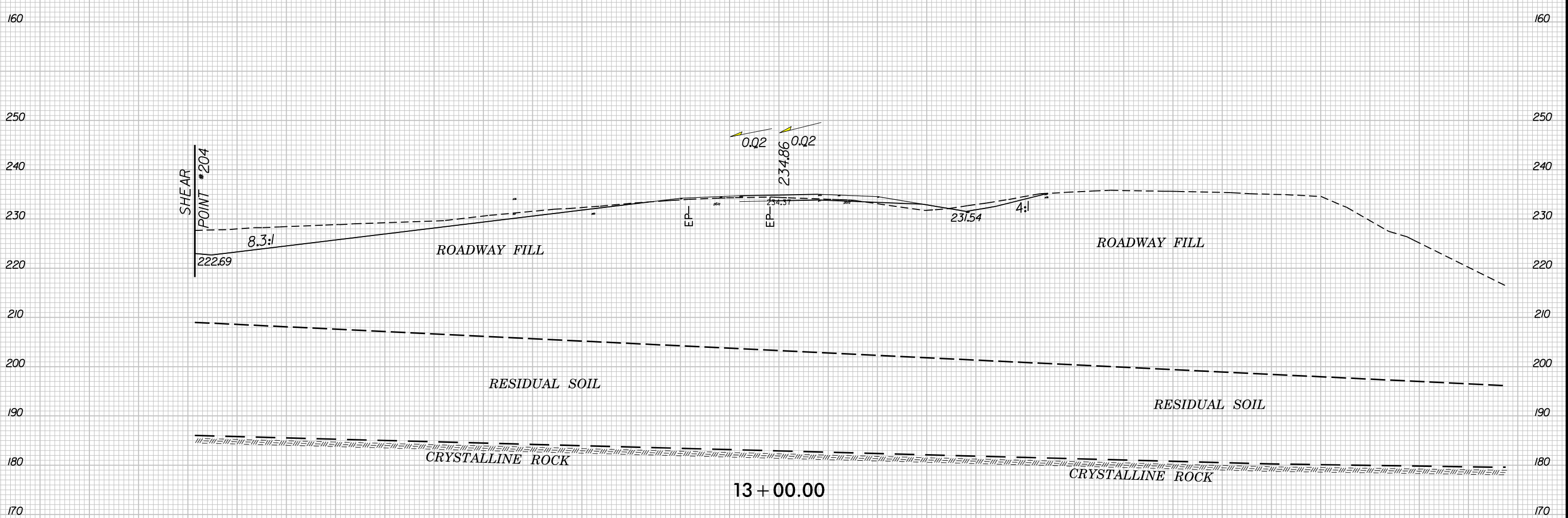
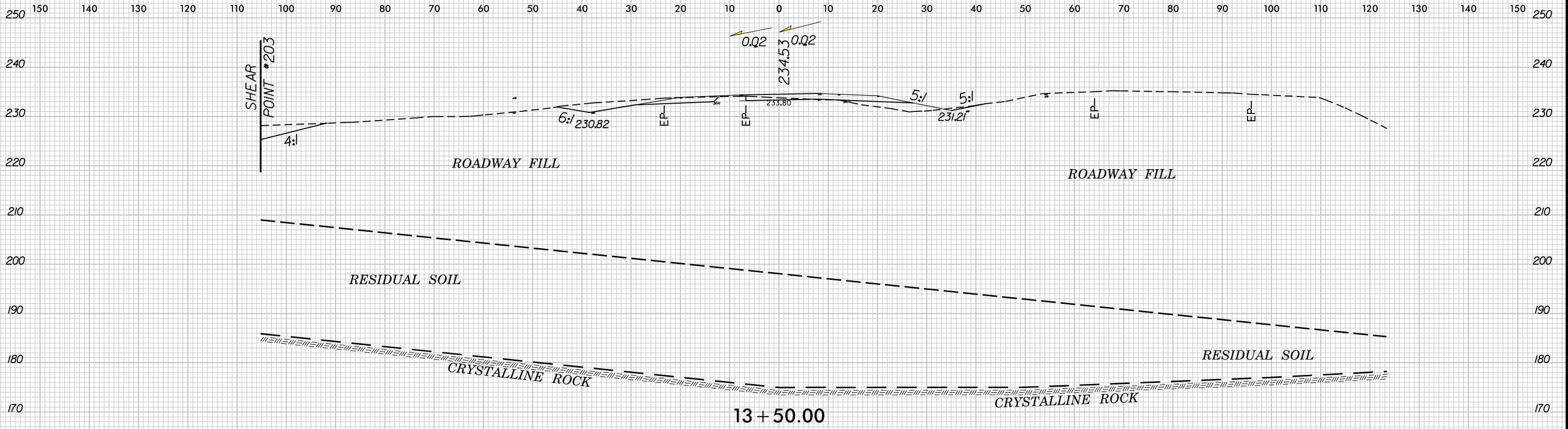
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-379	60 LT	12+00	L2RT	A-2-6(1)	34	15	57.4	16.6	7.9	18.2	90	55	25	-	-
SS-380	60 LT	12+00	8.90-10.40	A-1-b(0)	27	NP	47.7	34.7	13.5	4.0	69	46	16	-	-
SS-381	60 LT	12+00	13.90-14.40	A-7-5(4)	46	12	29.1	22.4	24.2	24.2	97	79	51	-	-



12 + 00.00

-L2RT-

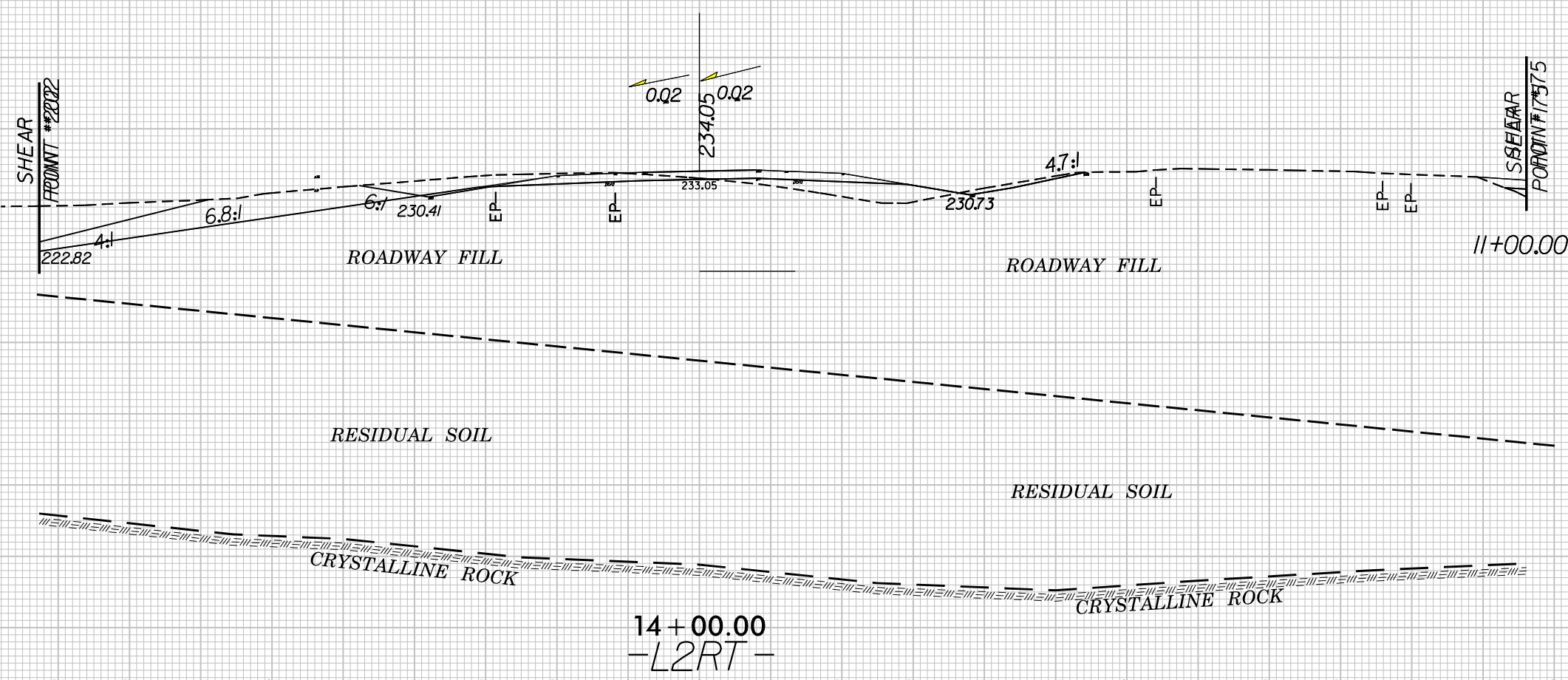


-L2RT-

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

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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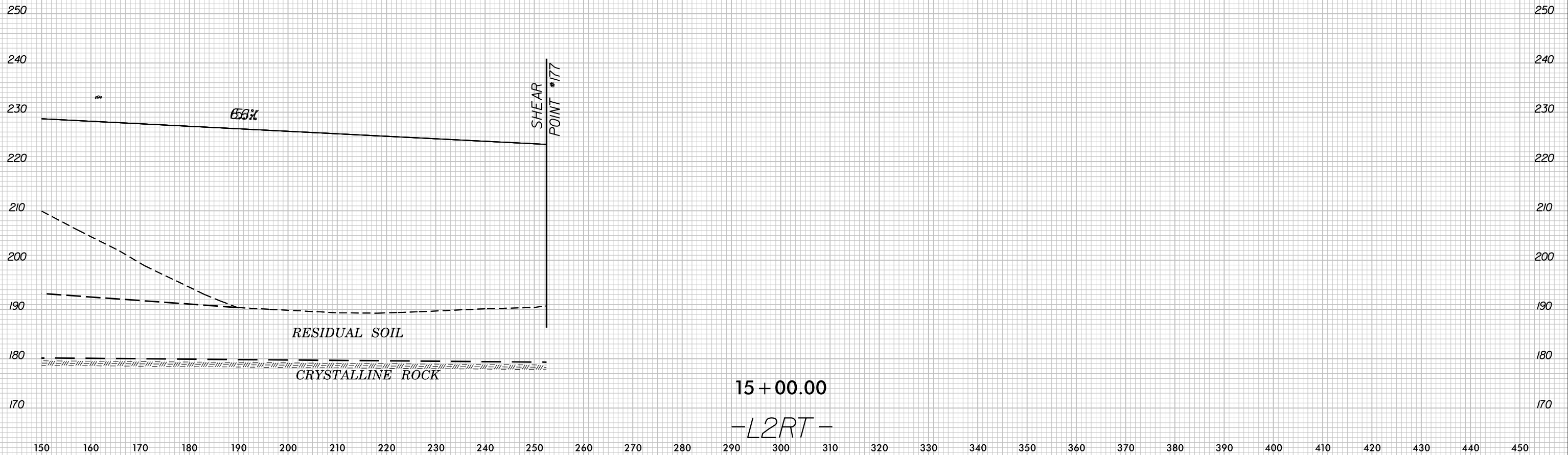


14 + 50.00

-L2RT-

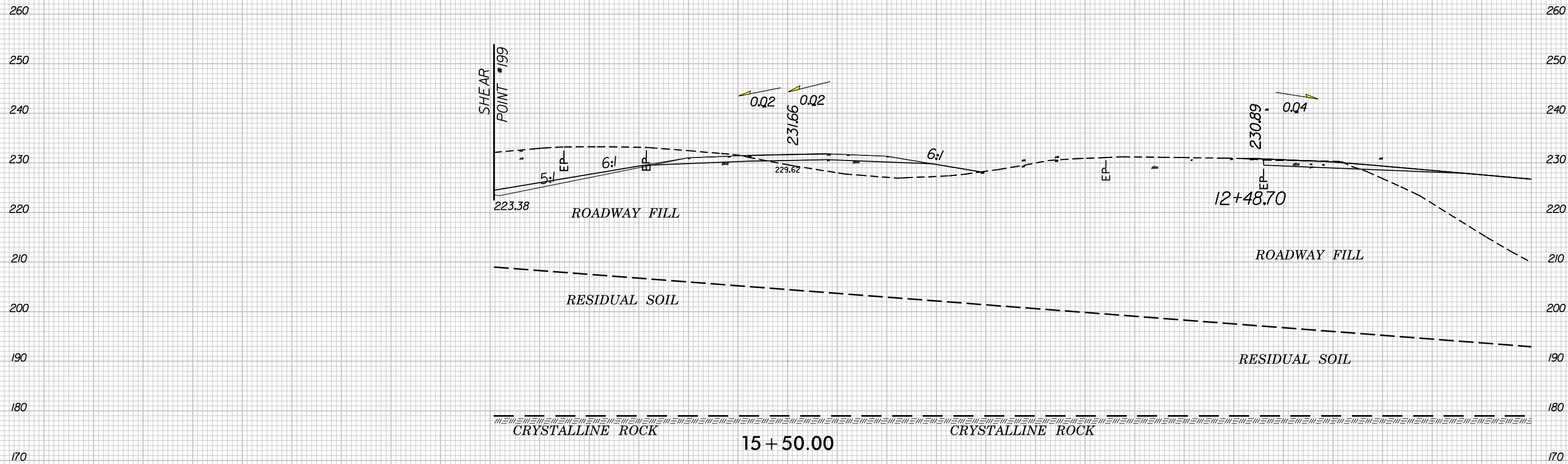
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150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450



15 + 00.00
-L2RT-

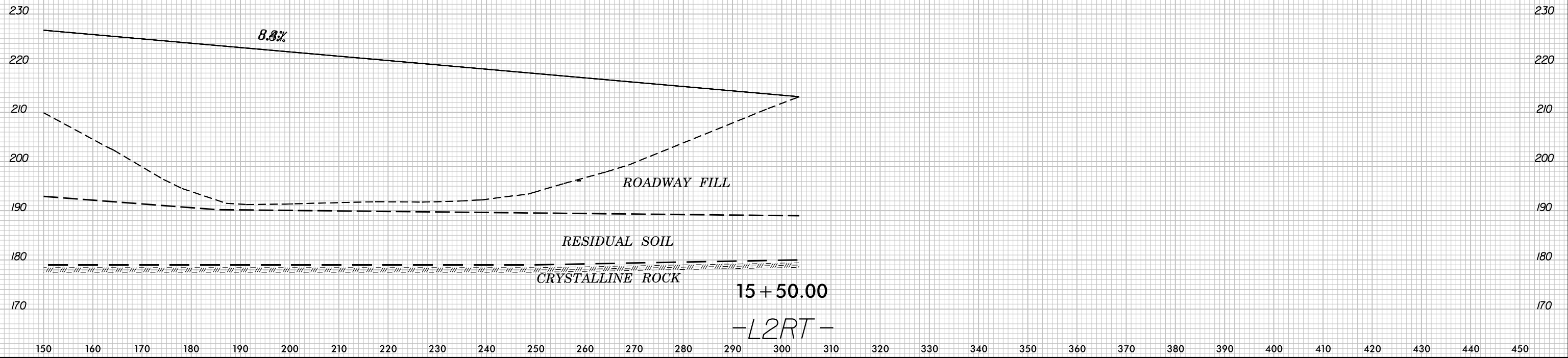
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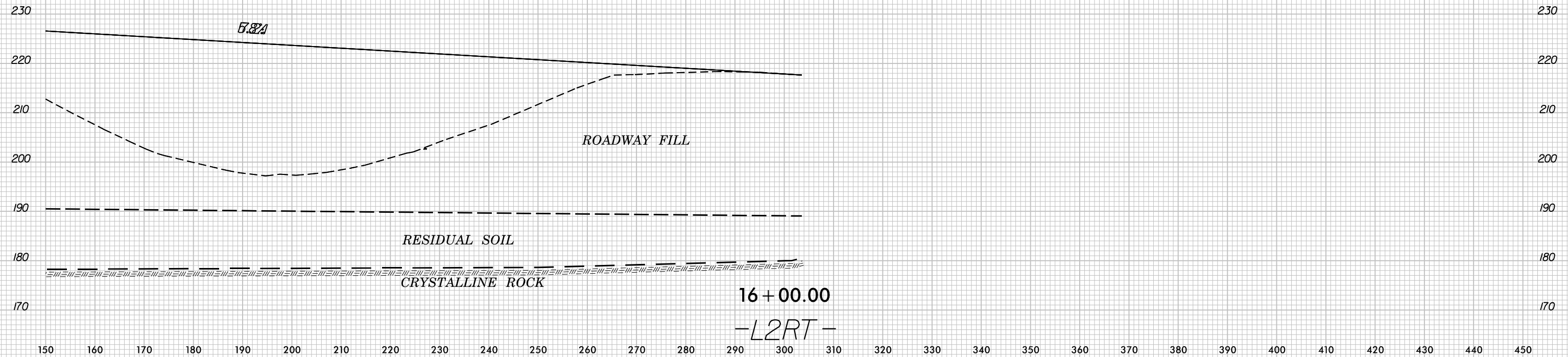
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15+50.00
-L2RT-

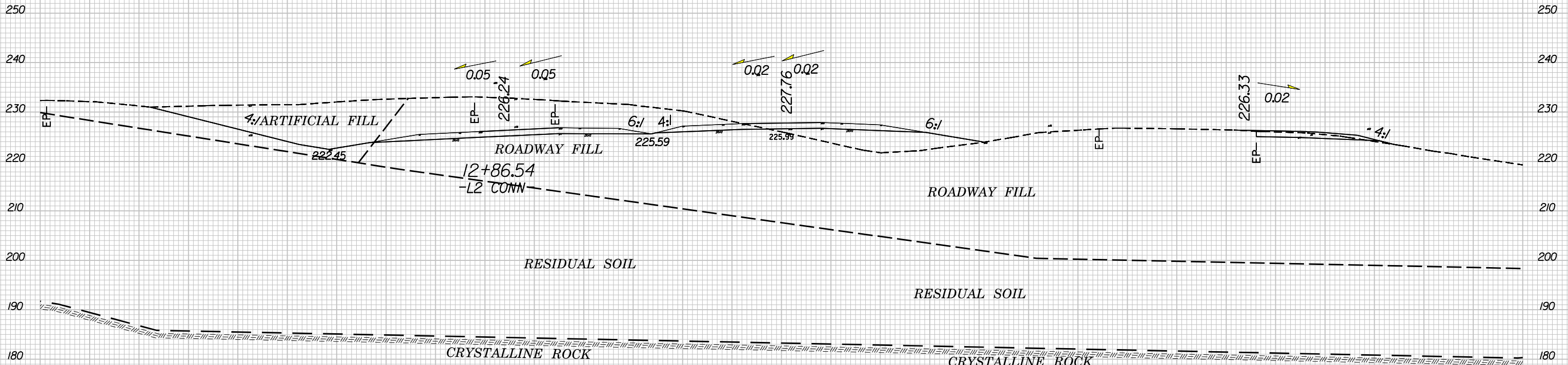
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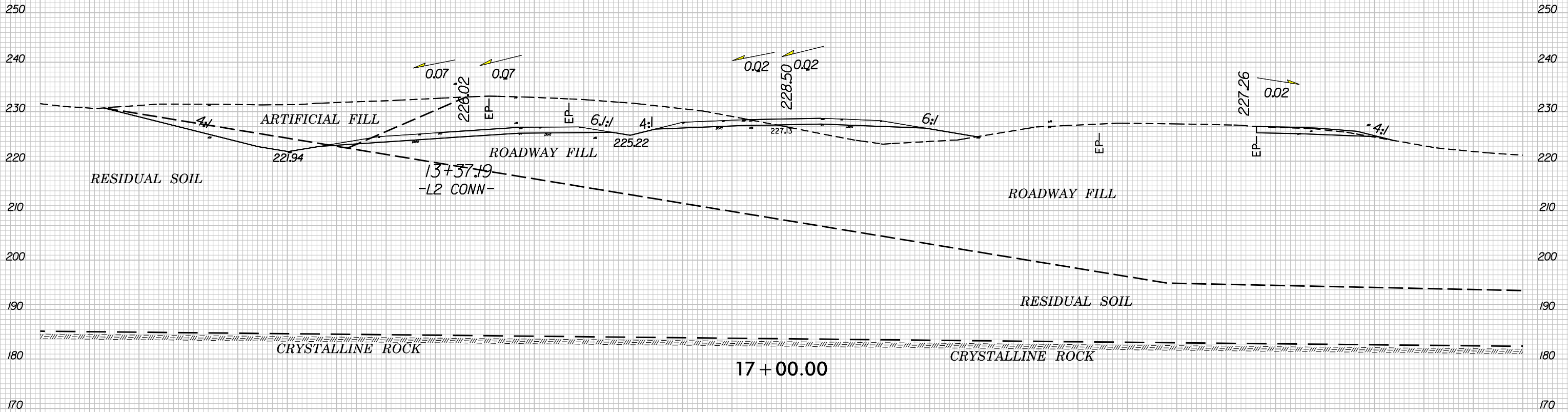
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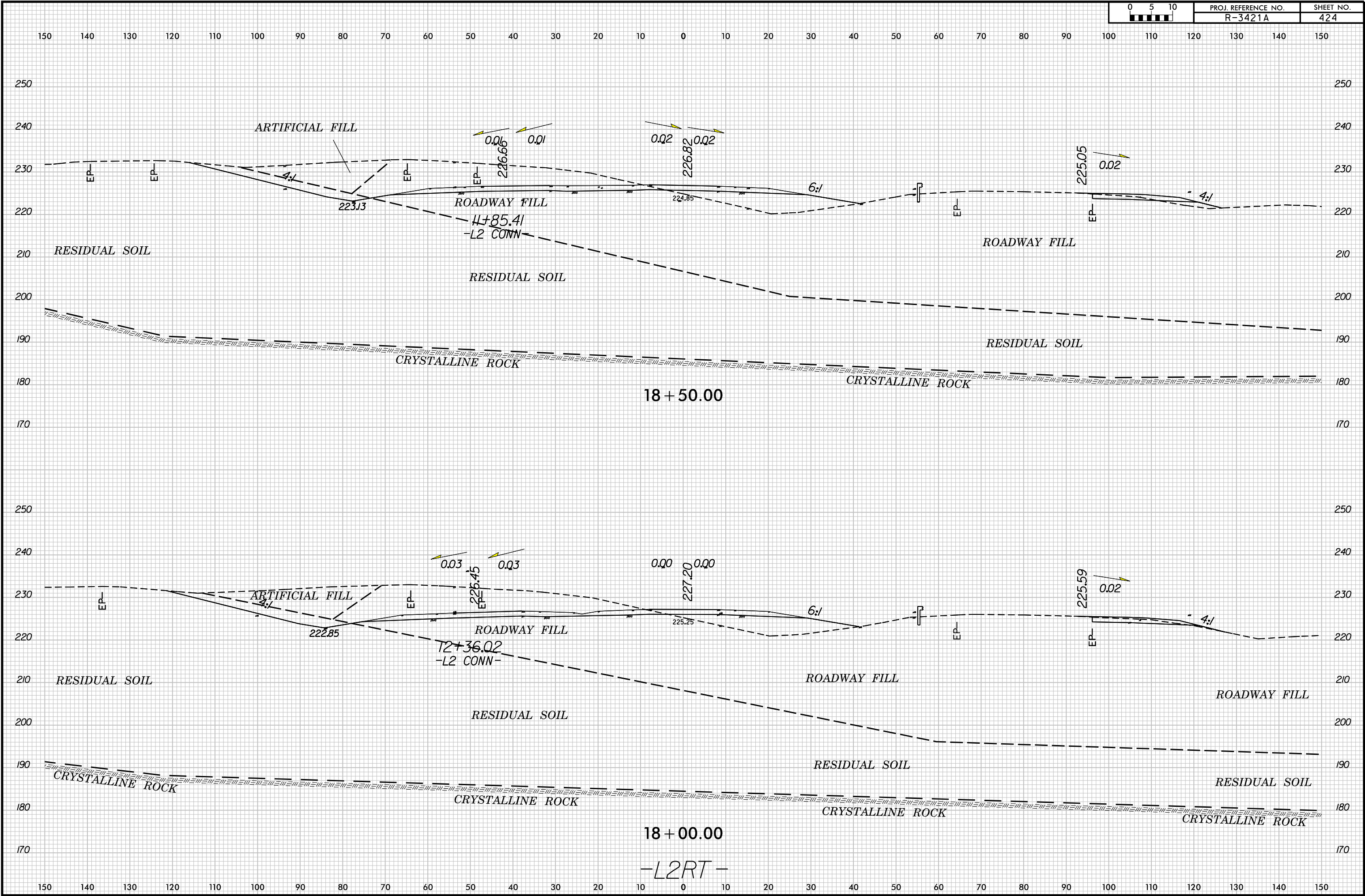


17 + 50.00

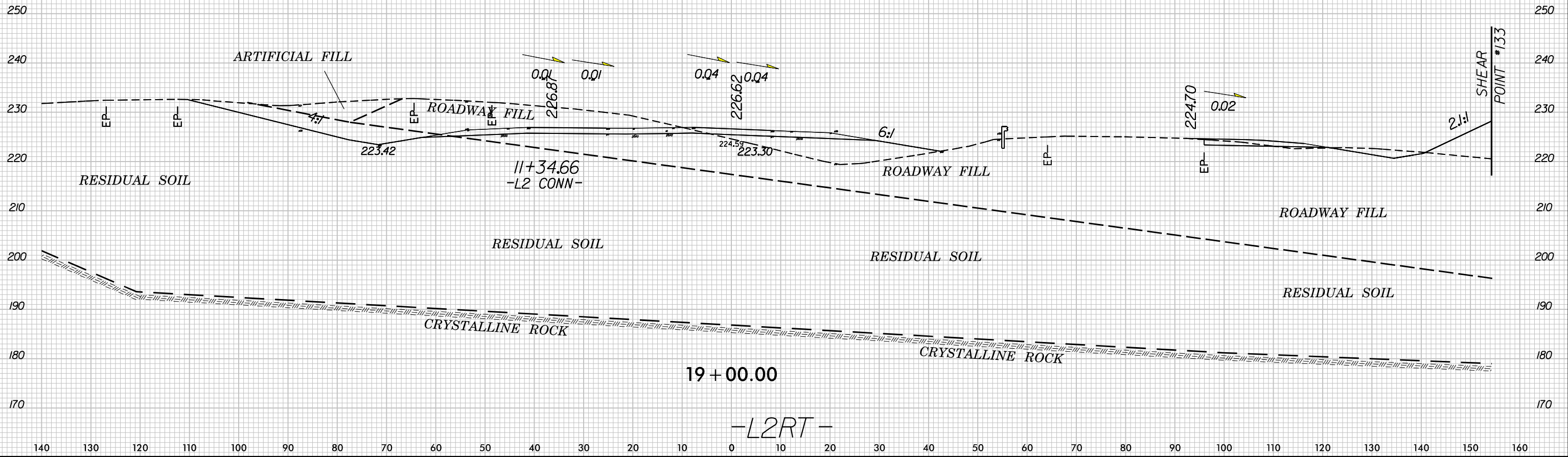


17 + 00.00

-L2RT-



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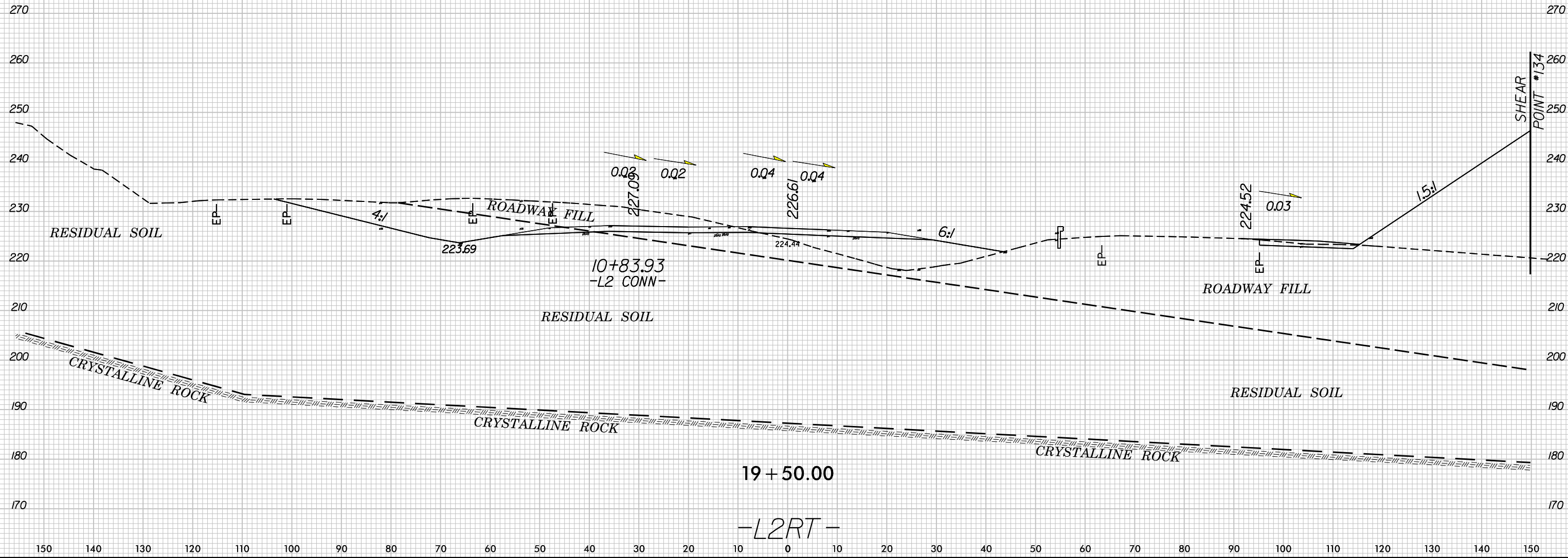


8/23/99



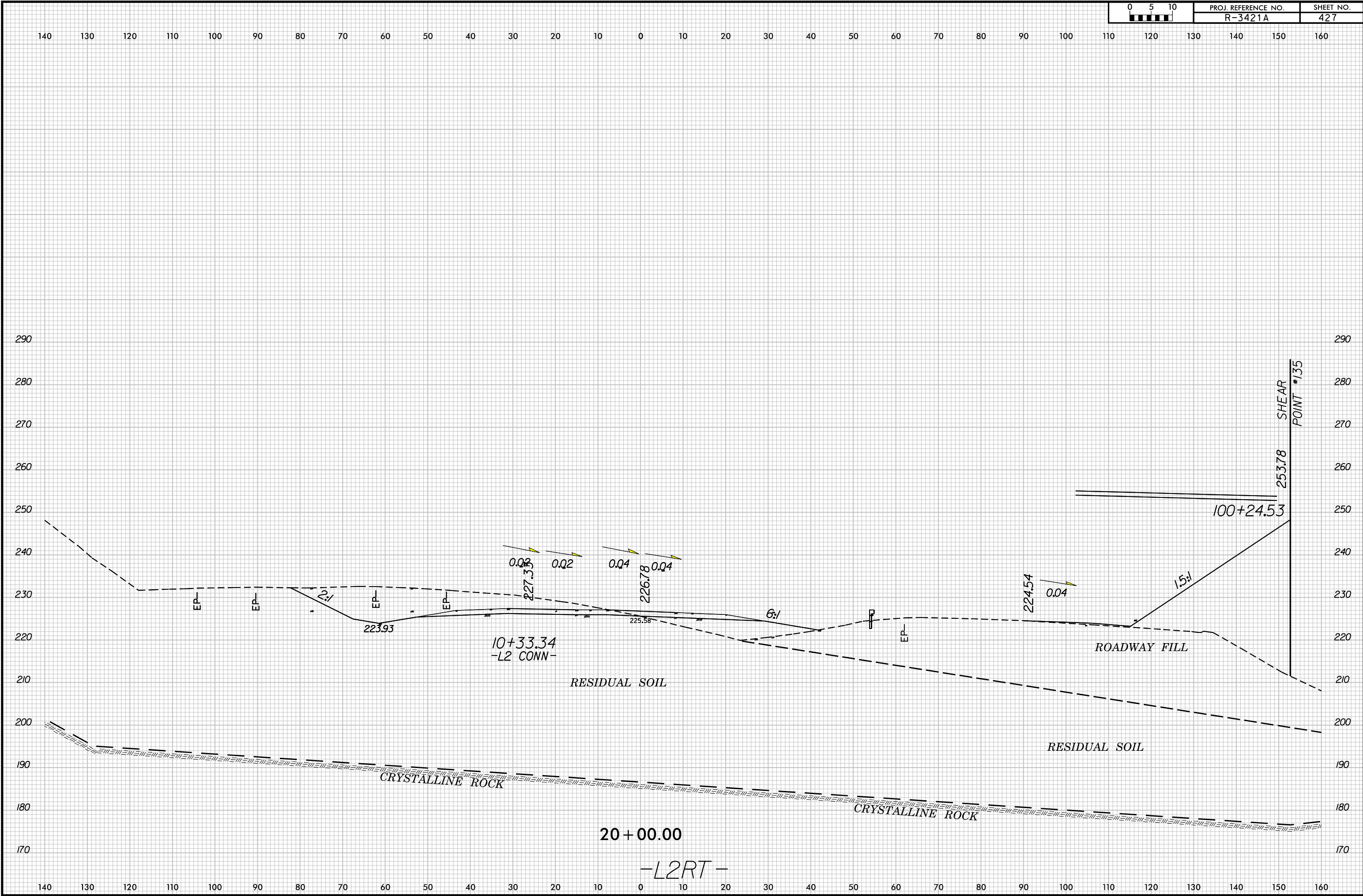
PROJ. REFERENCE NO.	SHEET NO.
R-3421A	426

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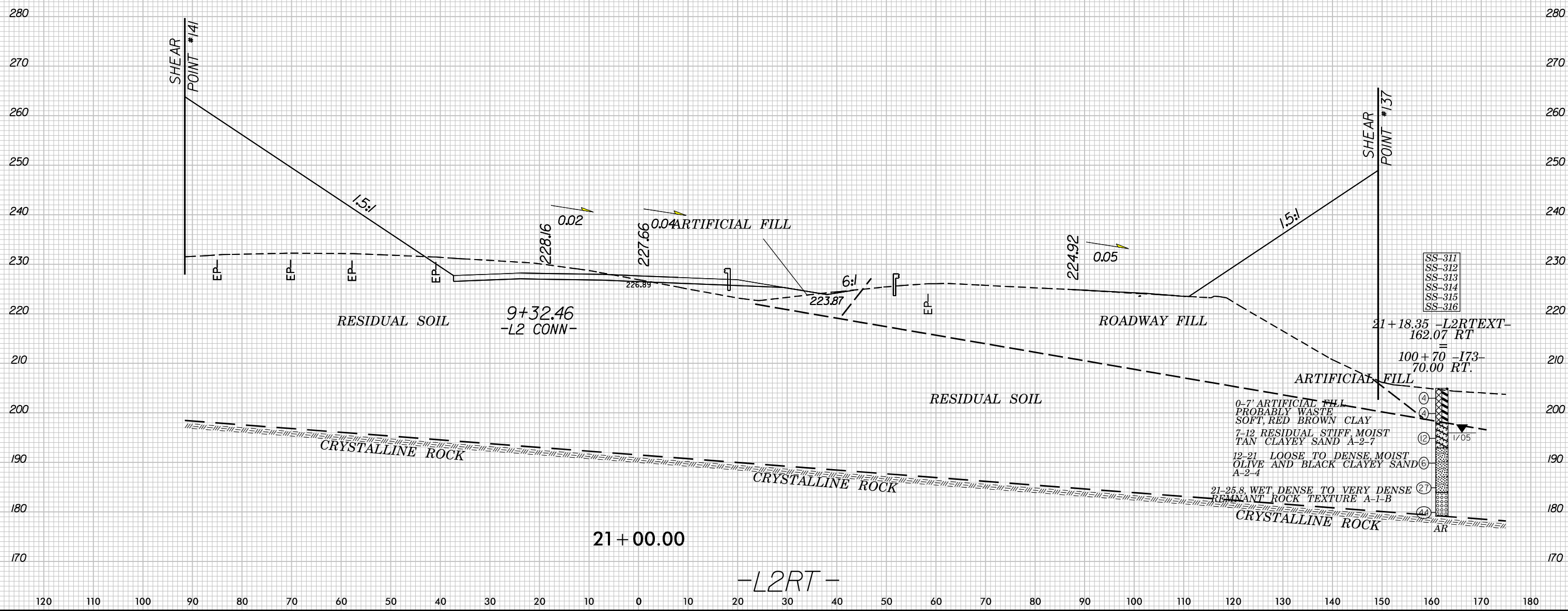
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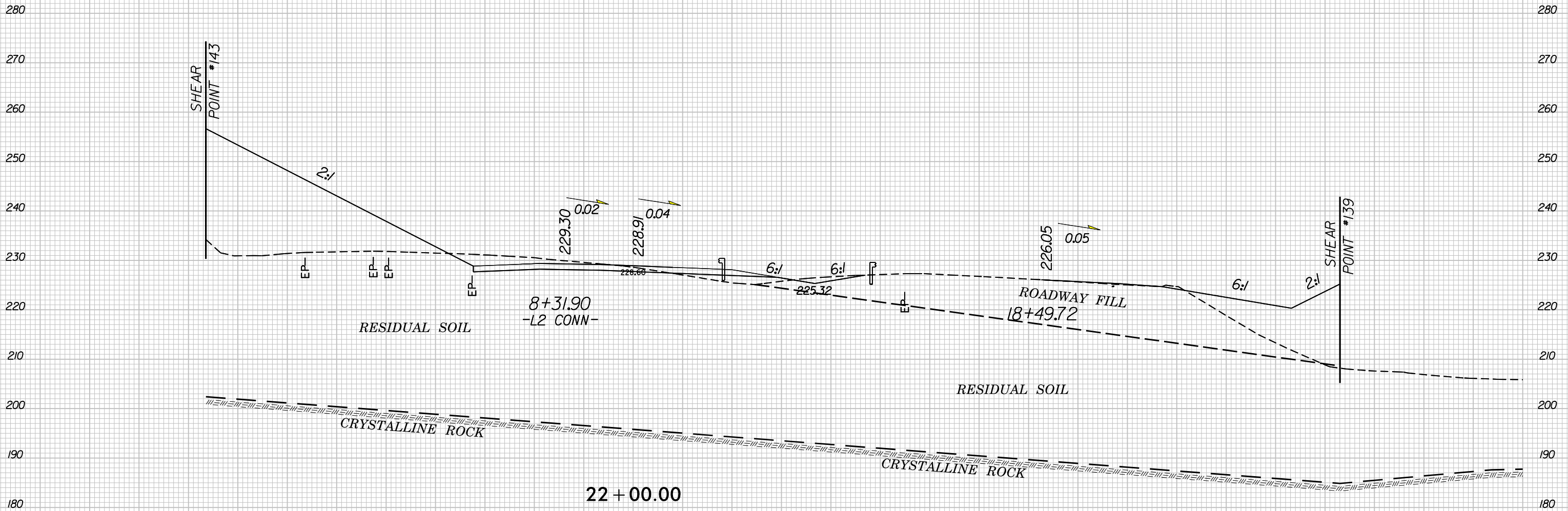


120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
1-73															
SS-311	70 RT	100+70	1.00-2.50	A-7-6(25)	52	34	14.5	12.3	22.7	50.5	100	91	76	-	-
SS-312	70 RT	100+70	4.10-5.60	A-7-6(12)	48	22	23.4	15.1	25.1	36.3	97	82	62	-	-
SS-313	70 RT	100+70	9.10-10.60	A-2-7(0)	44	30	49.6	17.1	5.0	28.3	42	27	15	-	-
SS-314	70 RT	100+70	14.10-15.60	A-2-4(0)	33	NP	33.5	46.4	16.0	4.0	100	81	27	-	-
SS-315	70 RT	100+70	19.10-20.60	A-2-4(0)	29	NP	25.2	51.1	19.7	4.0	100	87	32	-	-
SS-316	70 RT	100+70	24.10-25.60	A-1-b(0)	24	NP	37.4	39.7	14.8	8.1	68	50	21	-	-



120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

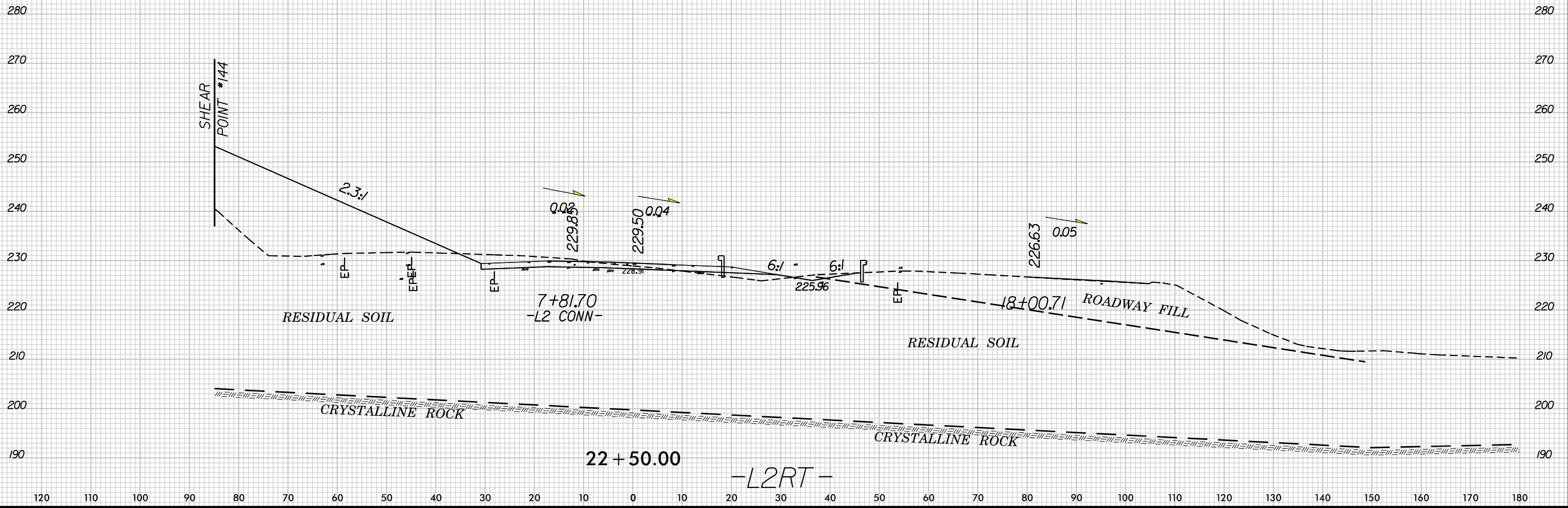


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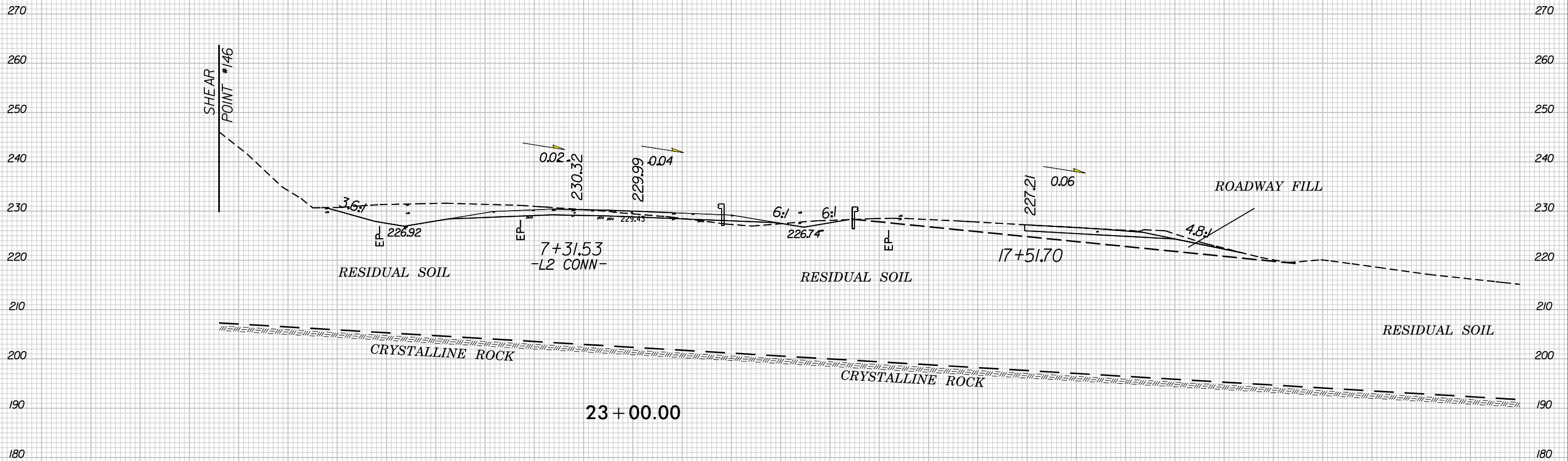
22 + 00.00

-L2RT-

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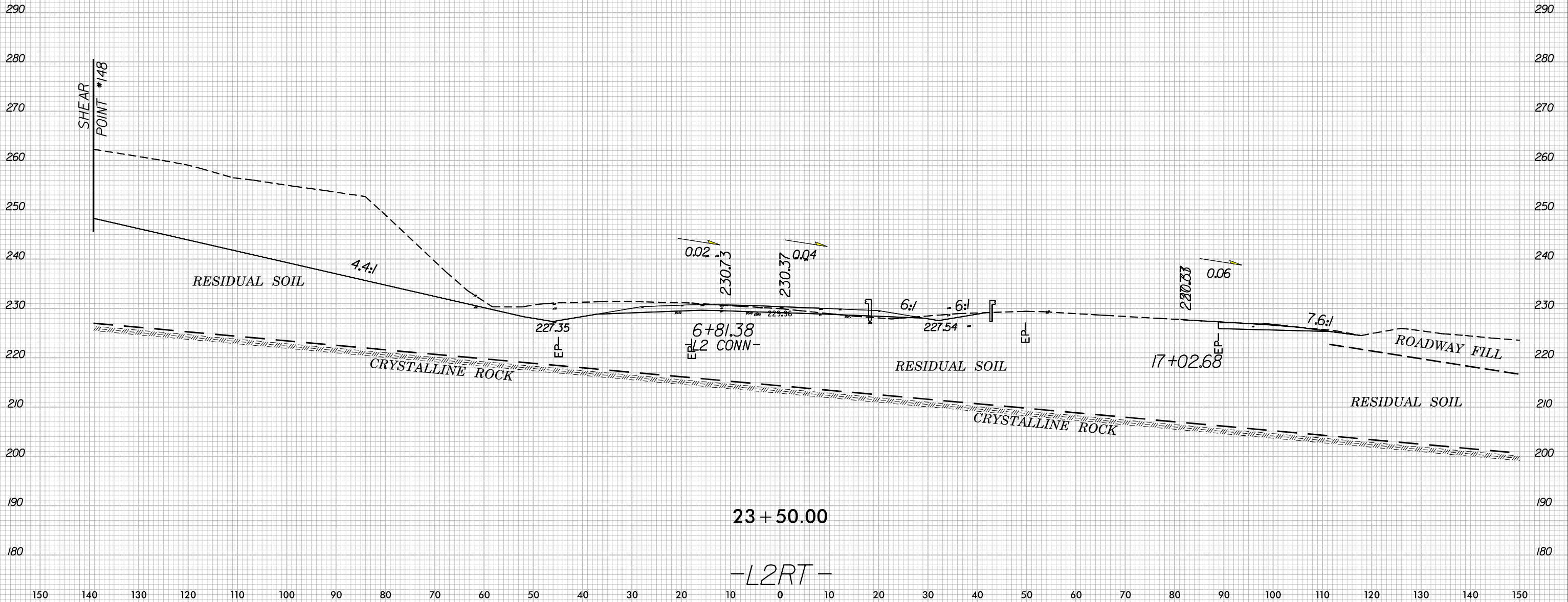
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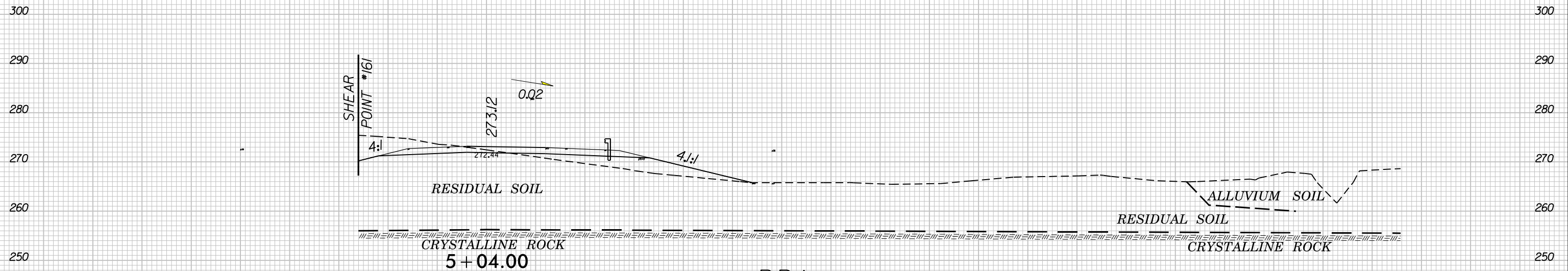
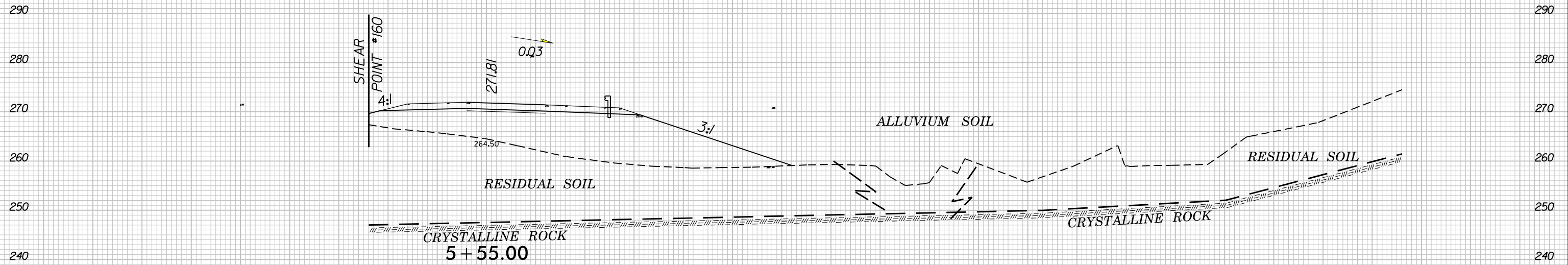
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-L2RT-

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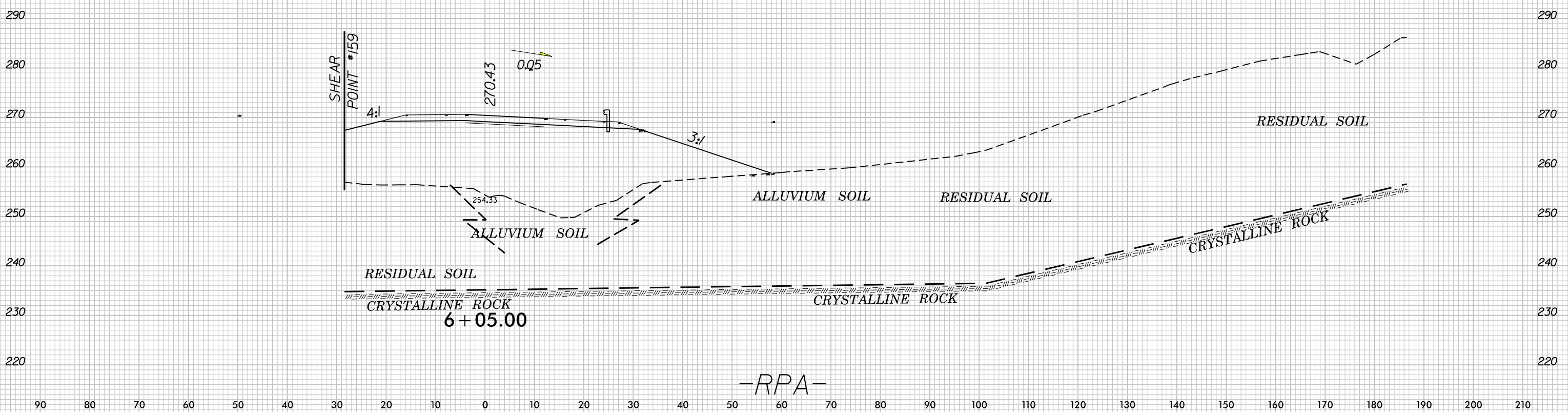
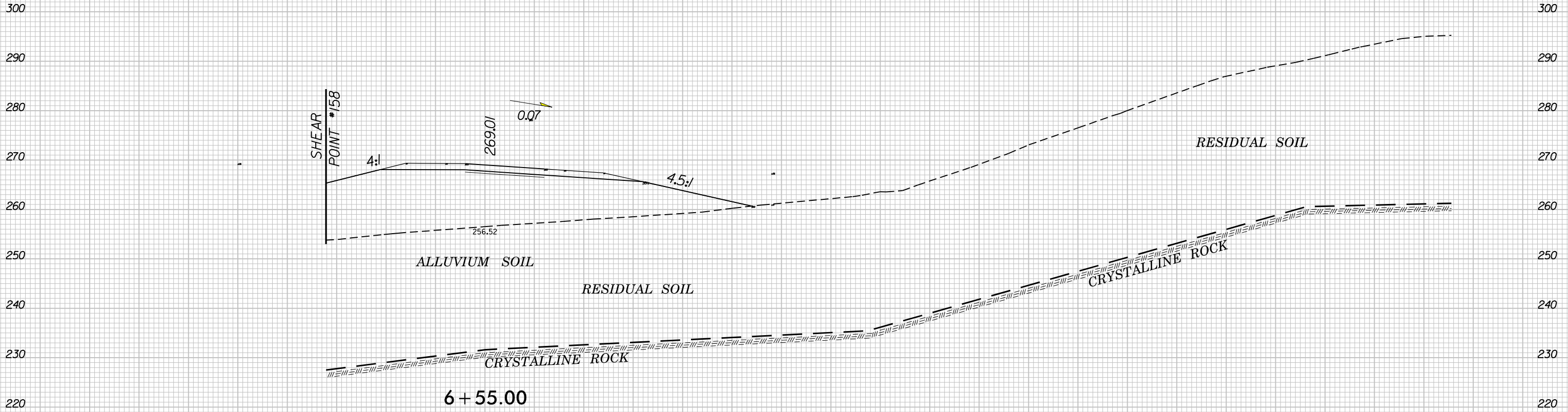


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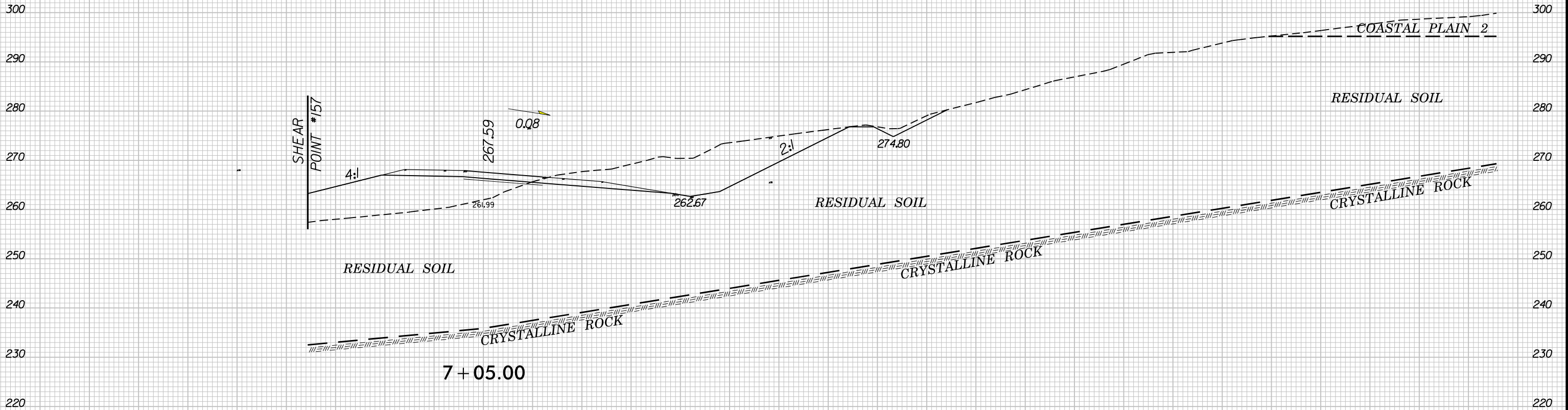
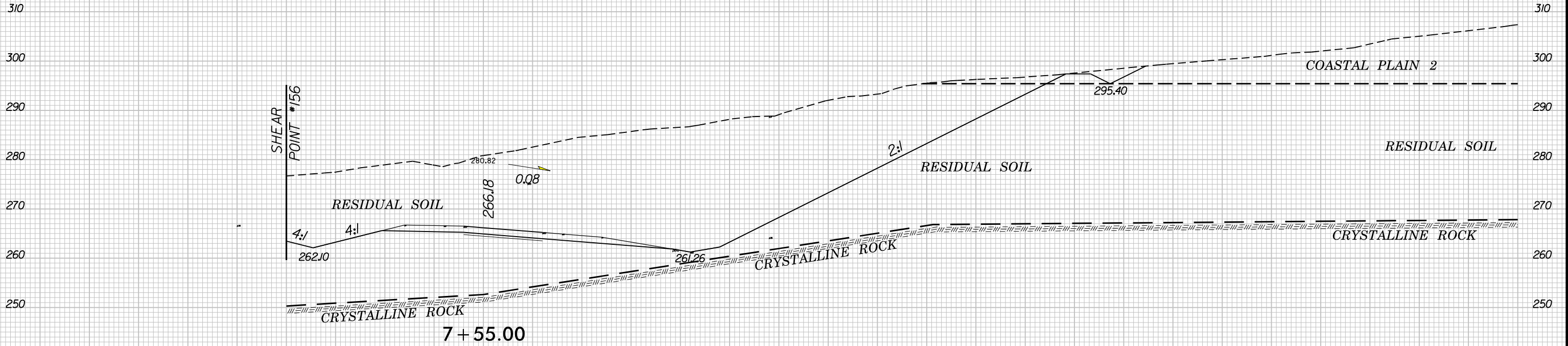
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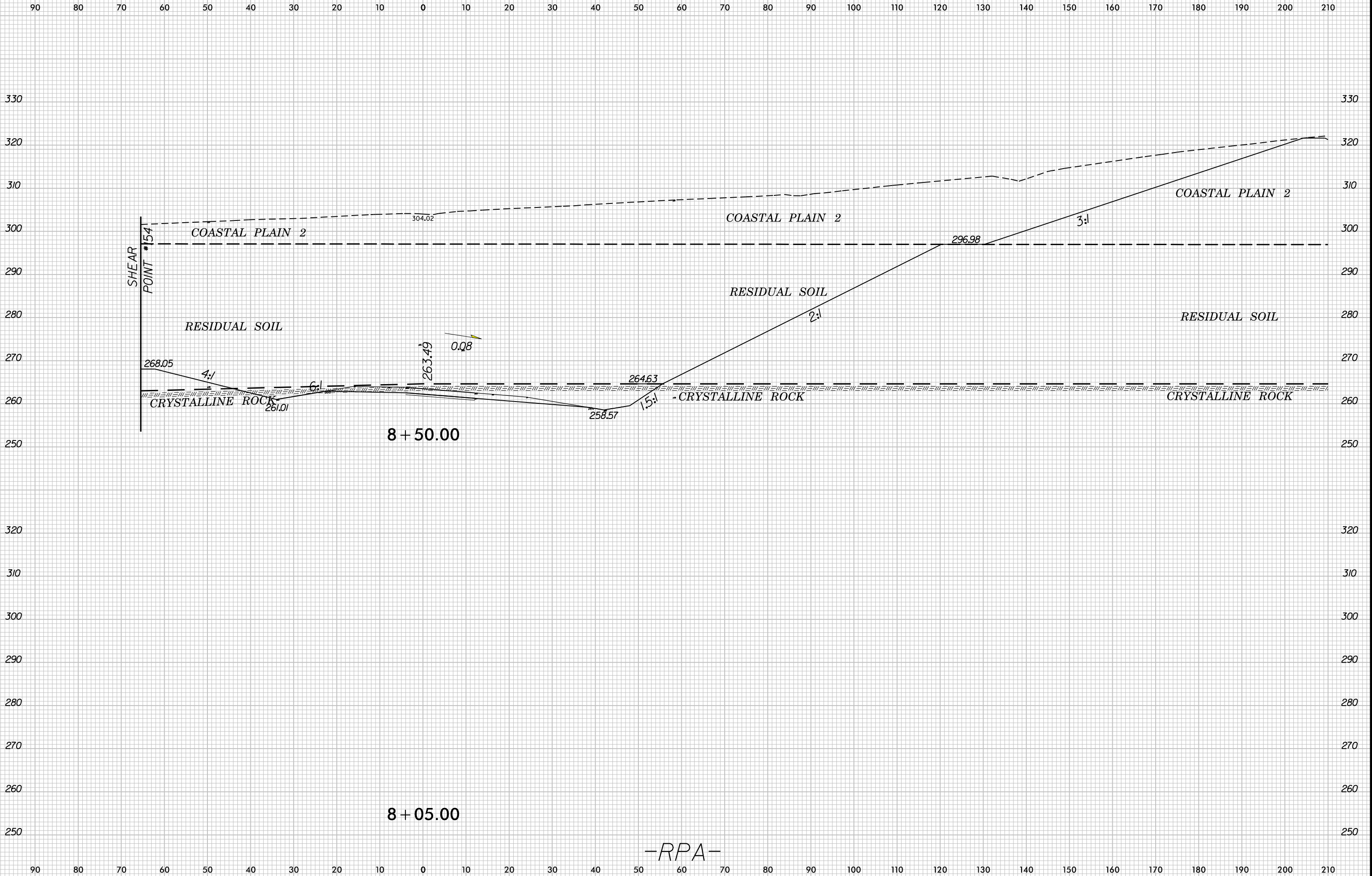
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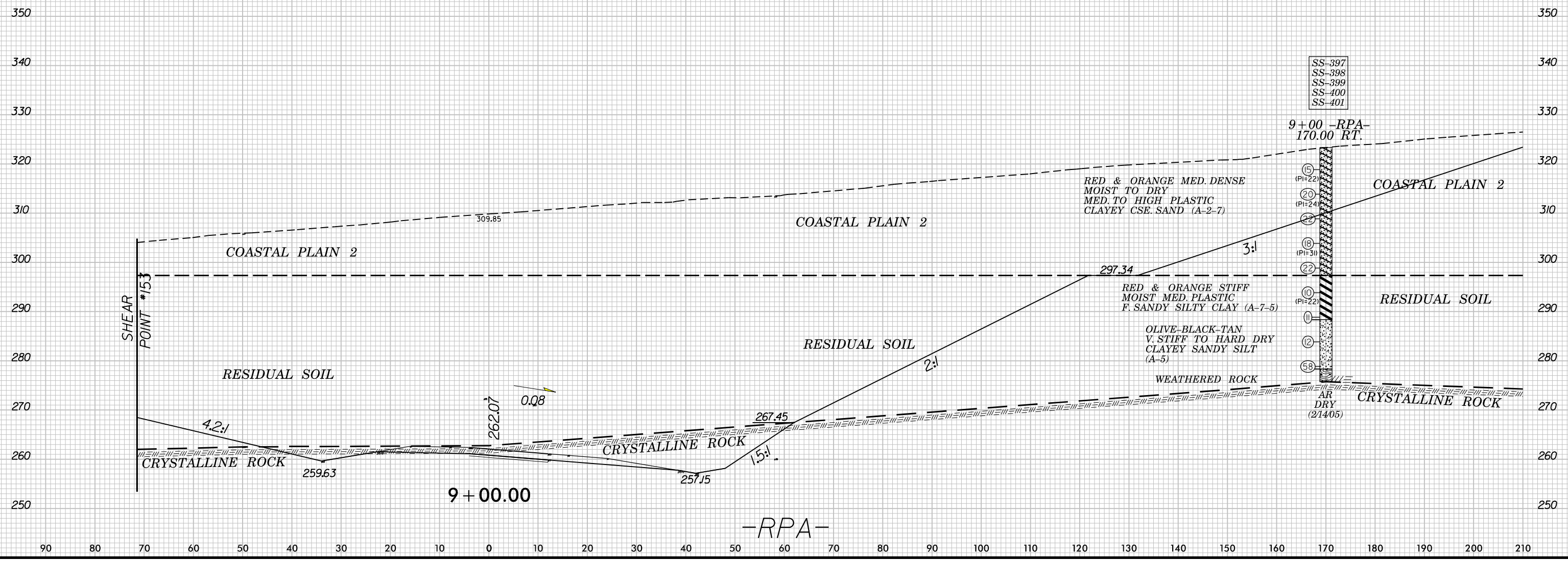
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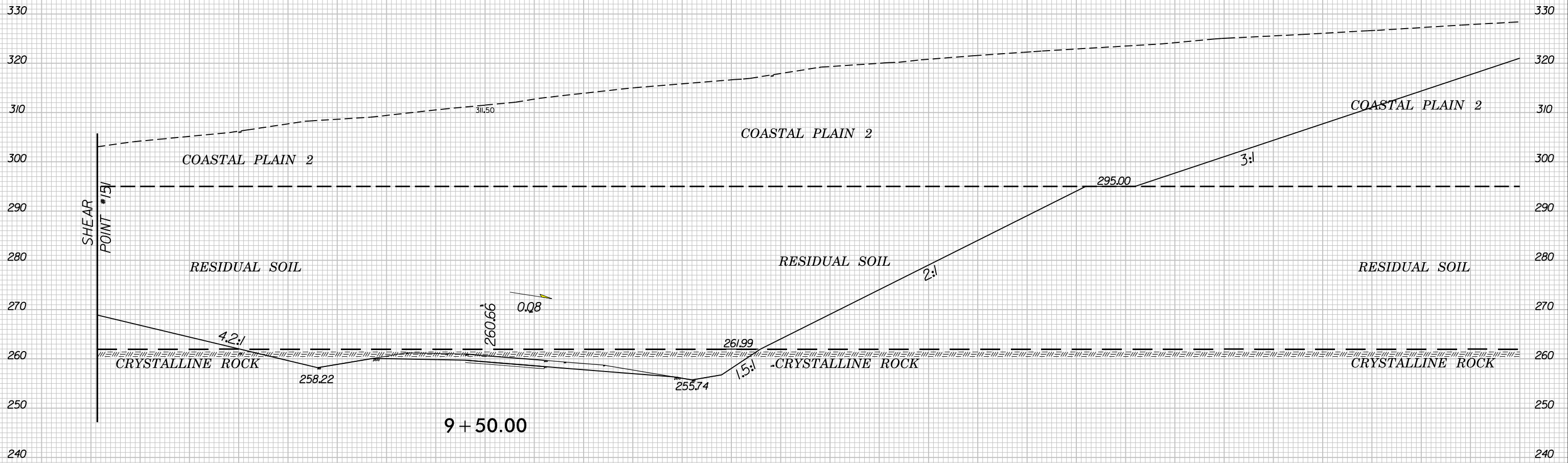


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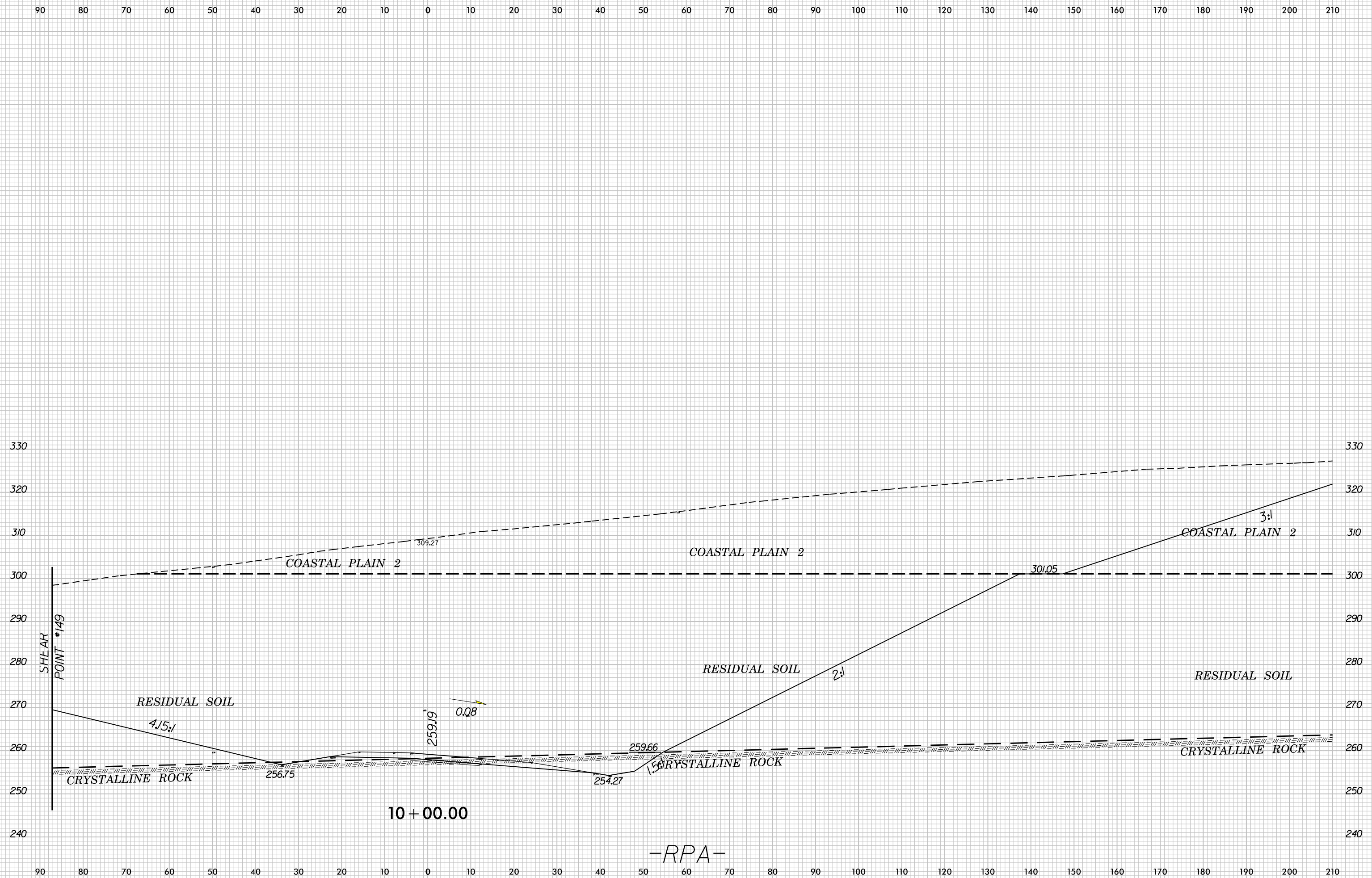
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-397	170 RT	9+00	3.50-5.00	A-2-7(1)	43	22	45.7	17.8	4.2	32.3	62	42	24	-	-
SS-398	170 RT	9+00	8.50-10.00	A-2-7(1)	41	24	70.1	8.6	3.1	18.2	90	41	20	-	-
SS-399	170 RT	9+00	13.50-15.00	A-2-7(3)	51	31	59.8	10.5	3.4	26.3	88	51	27	-	-
SS-400	170 RT	9+00	28.50-30.00	A-7-5(26)	75	22	5.3	18.6	43.8	32.3	100	98	82	-	-
SS-401	170 RT	9+00	38.50-40.00	A-5(1)	53	6	36.0	26.7	25.3	12.1	100	73	44	-	-



90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210



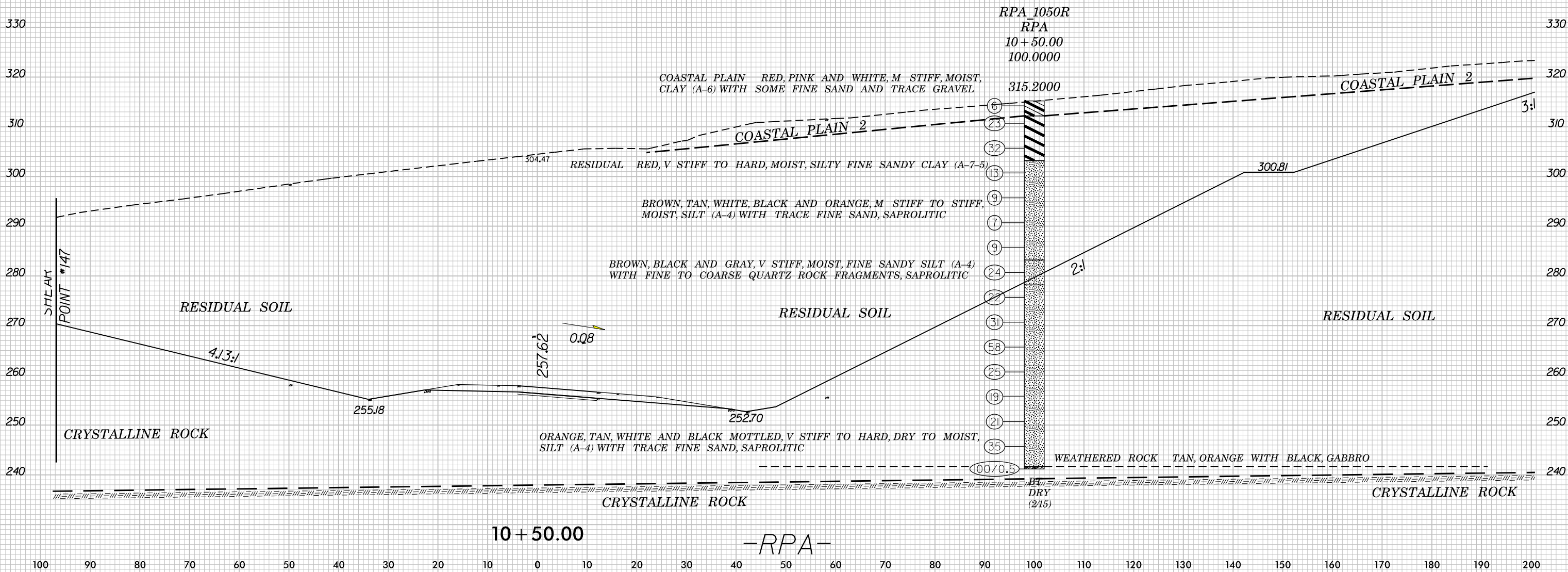
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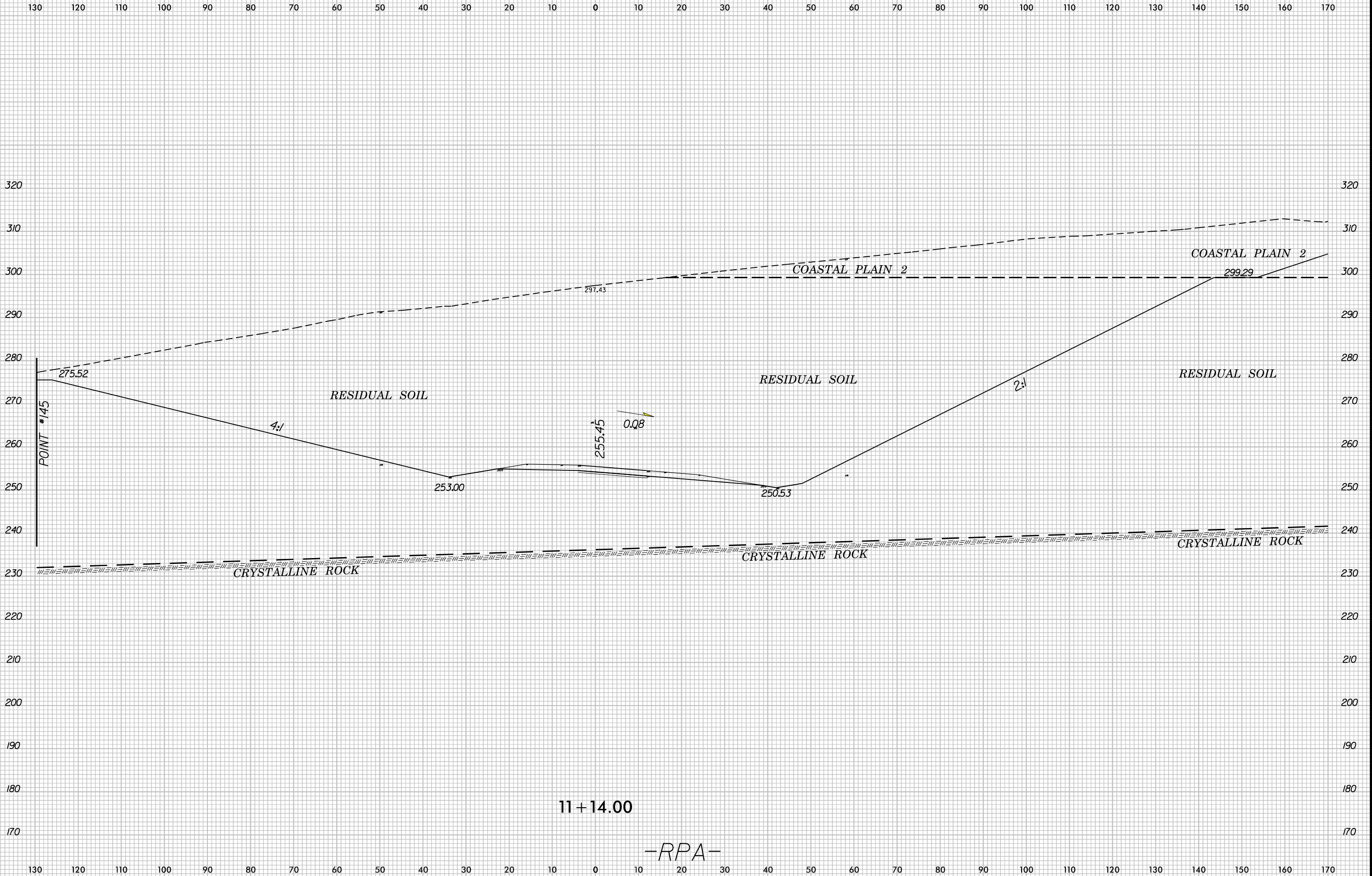


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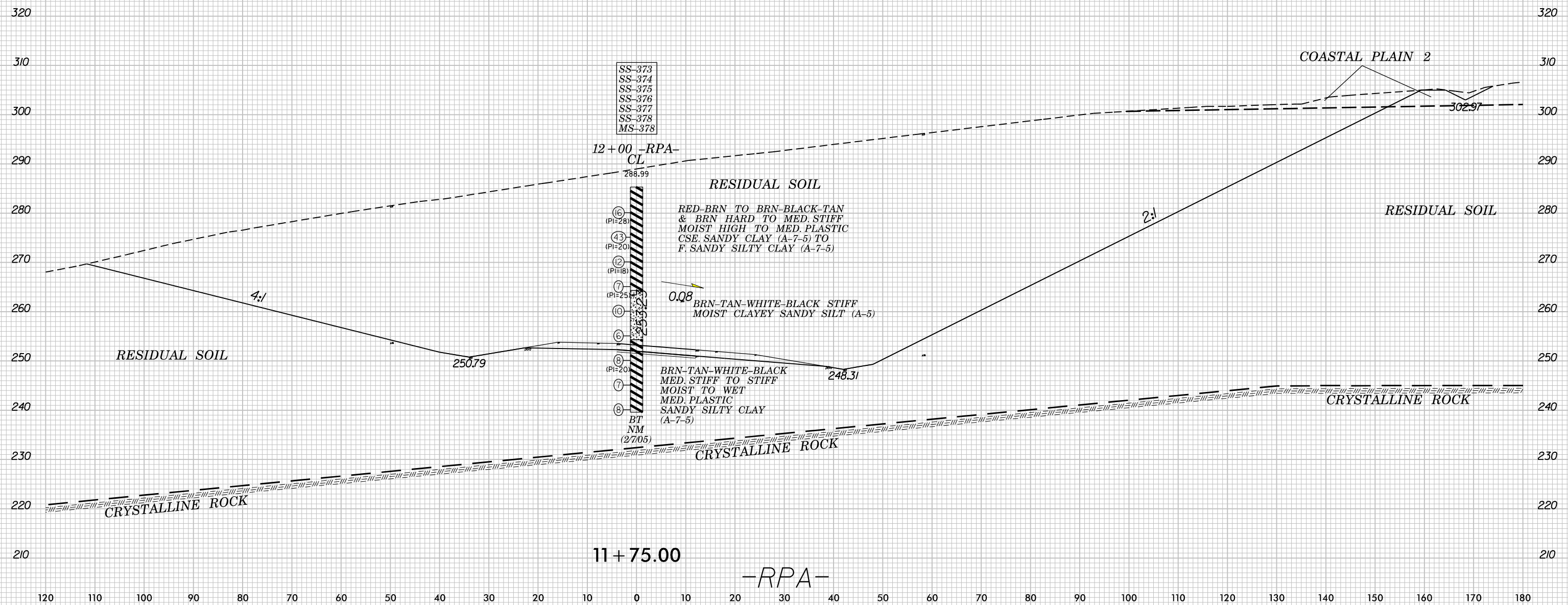




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SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-373	CL	12+00	4.20-5.70	A-7-5(16)	59	28	24.6	9.5	5.3	60.6	92	75	62	-	-
SS-374	CL	12+00	9.20-10.70	A-7-5(18)	60	20	13.1	16.0	28.5	42.4	100	91	75	-	-
SS-375	CL	12+00	14.20-15.70	A-7-5(17)	57	18	7.7	20.8	35.2	36.4	100	96	77	-	-
SS-376	CL	12+00	19.20-20.70	A-7-5(28)	68	25	3.4	14.5	33.5	48.5	100	98	87	-	-
SS-377	CL	12+00	24.20-25.70	A-5(7)	51	8	13.5	27.7	38.6	20.2	100	92	67	-	-
SS-378	CL	12+00	34.20-35.70	A-7-5(19)	58	20	11.9	13.3	32.3	42.4	100	91	79	48.0	-



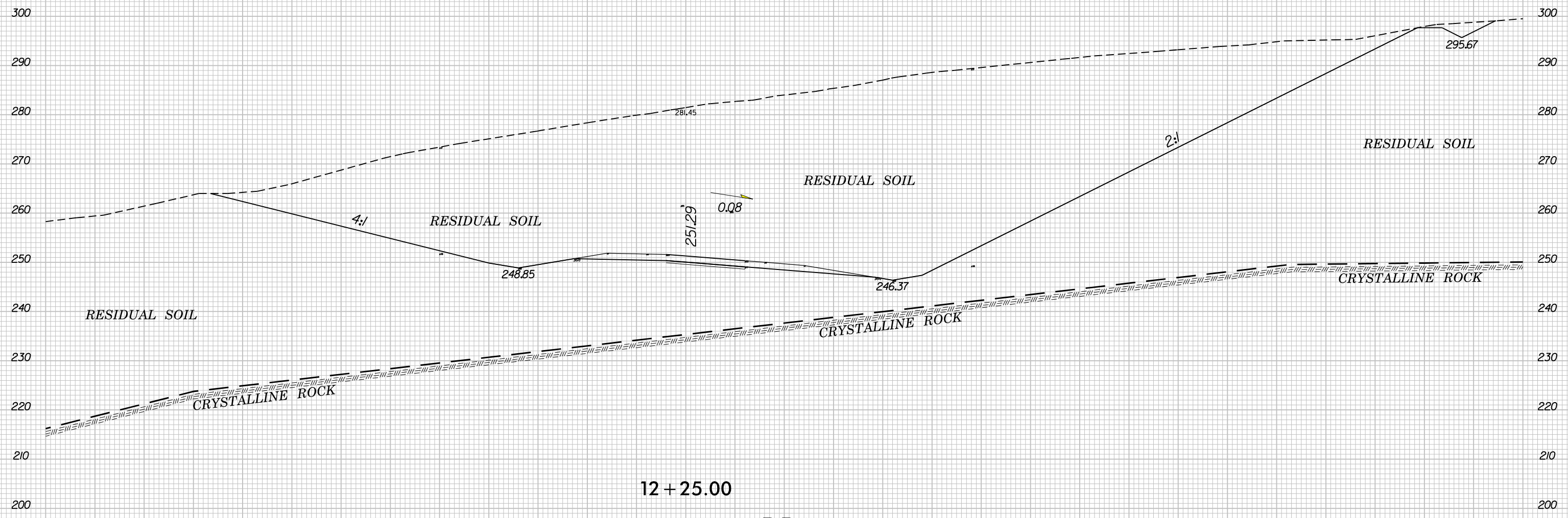
8/23/99



PROJ. REFERENCE NO.
R-3421A

SHEET NO.
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12 + 25.00

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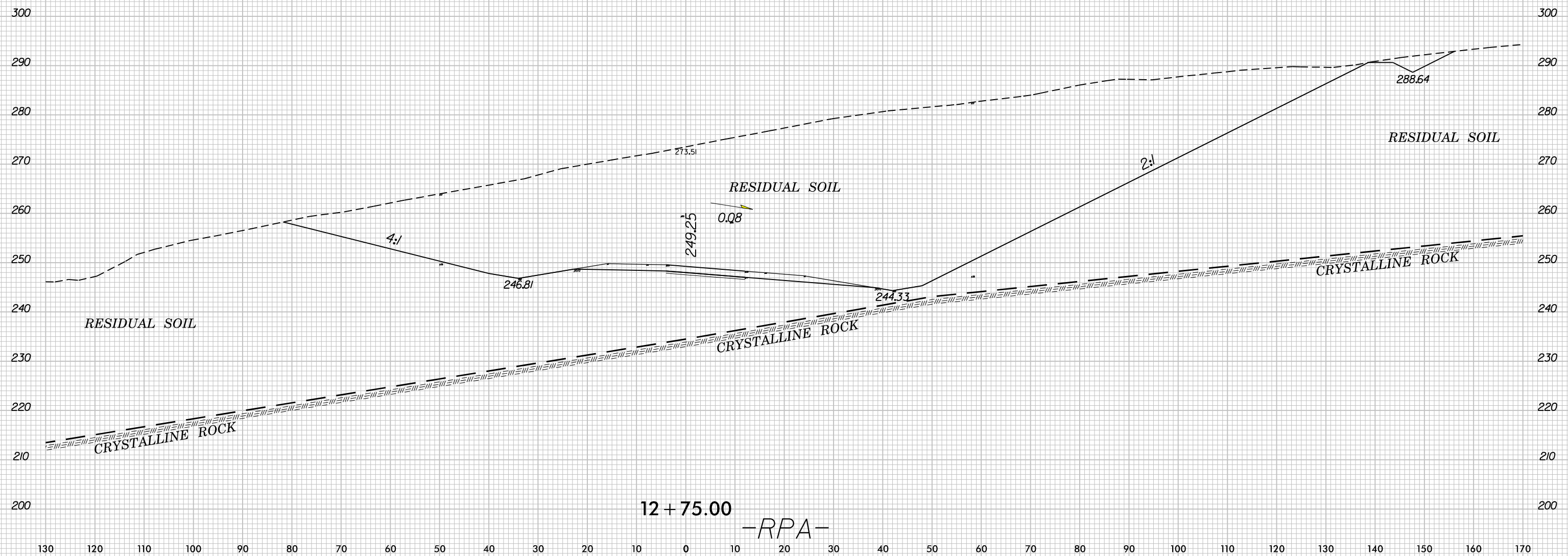
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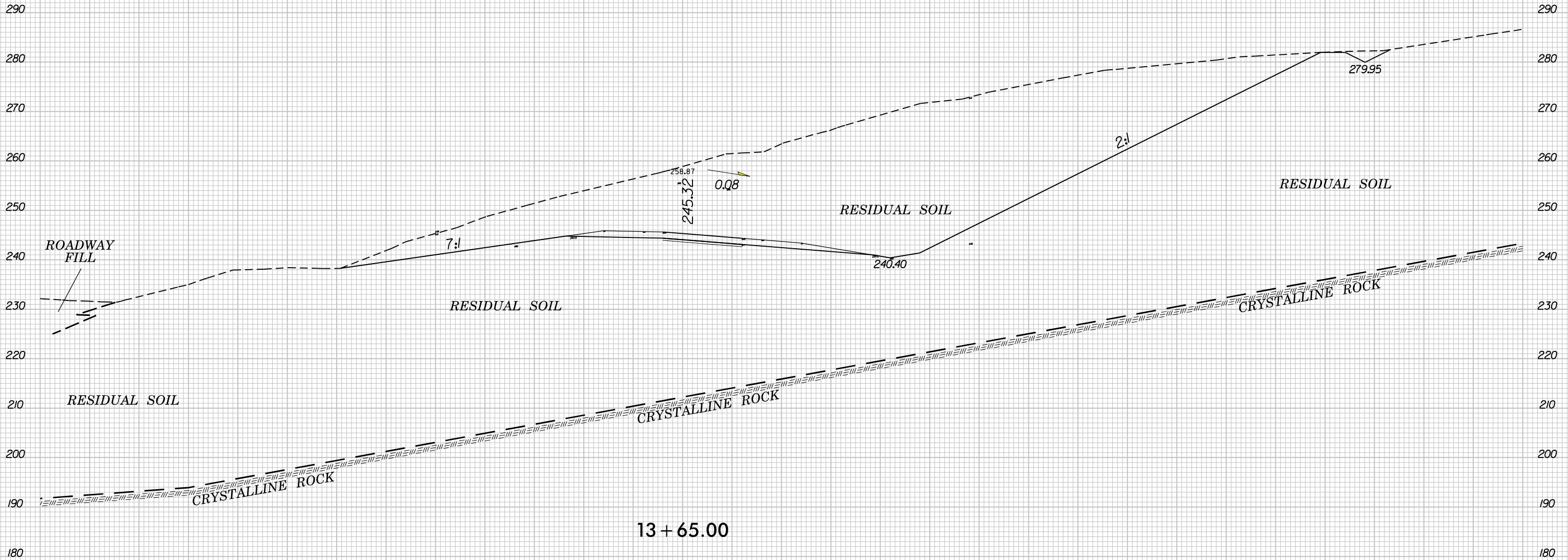


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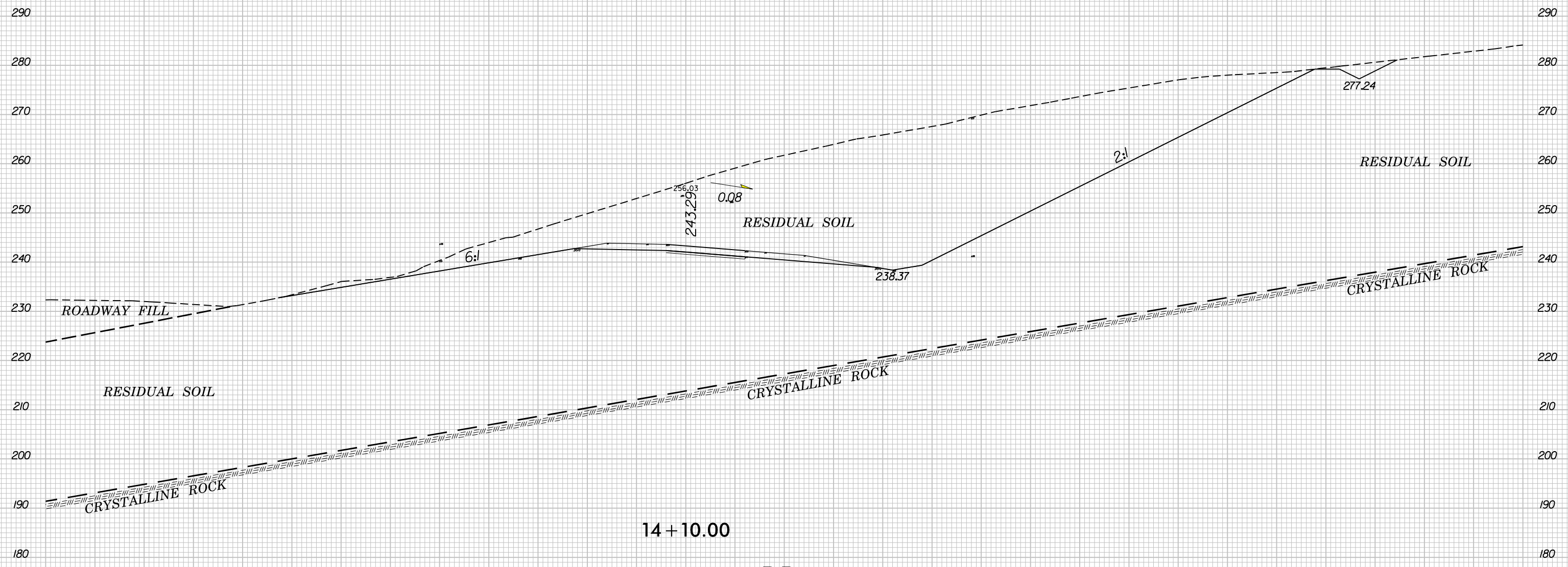


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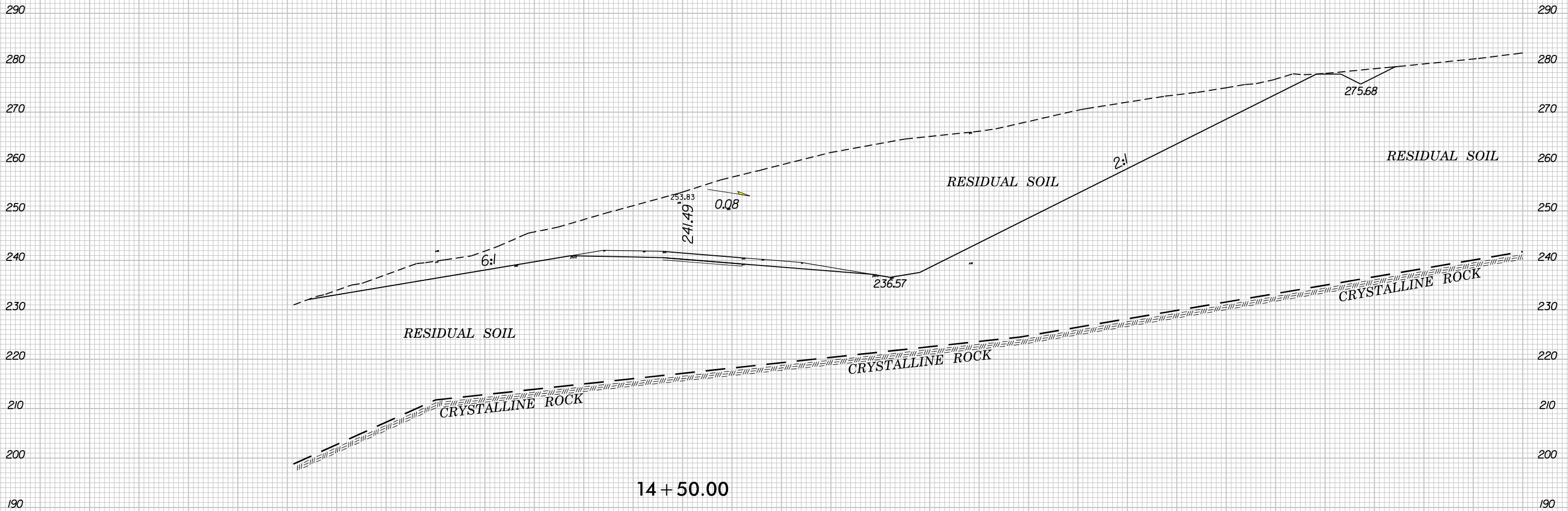
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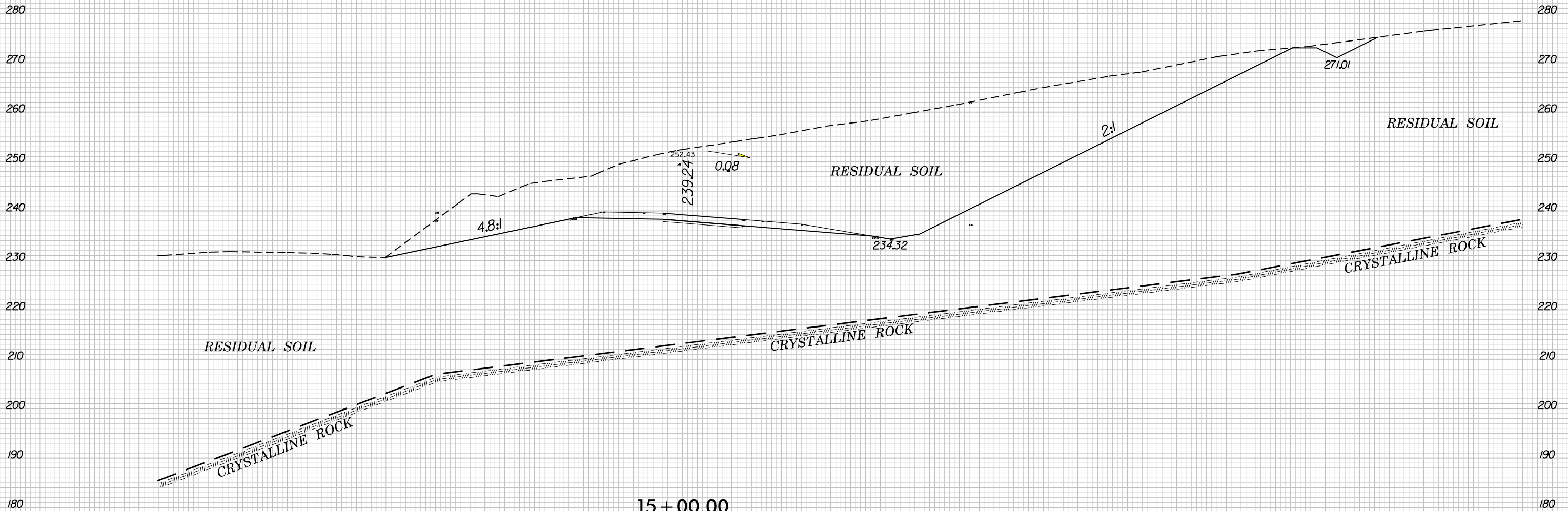


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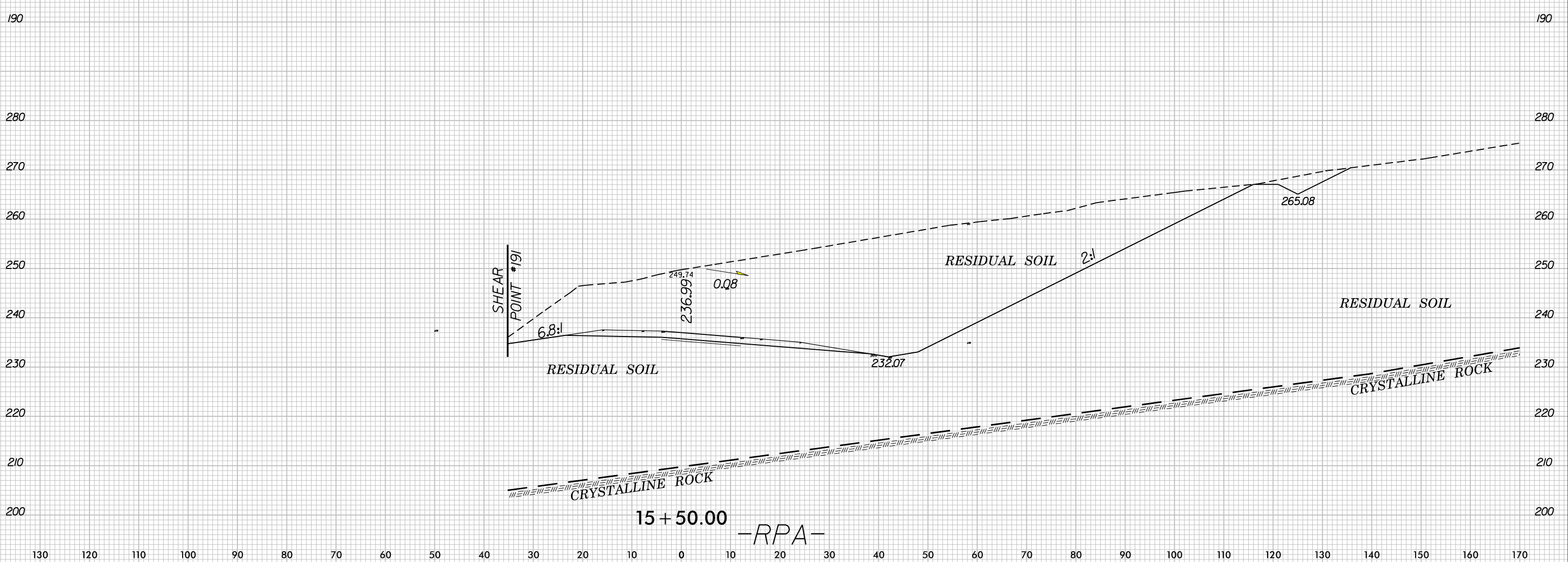
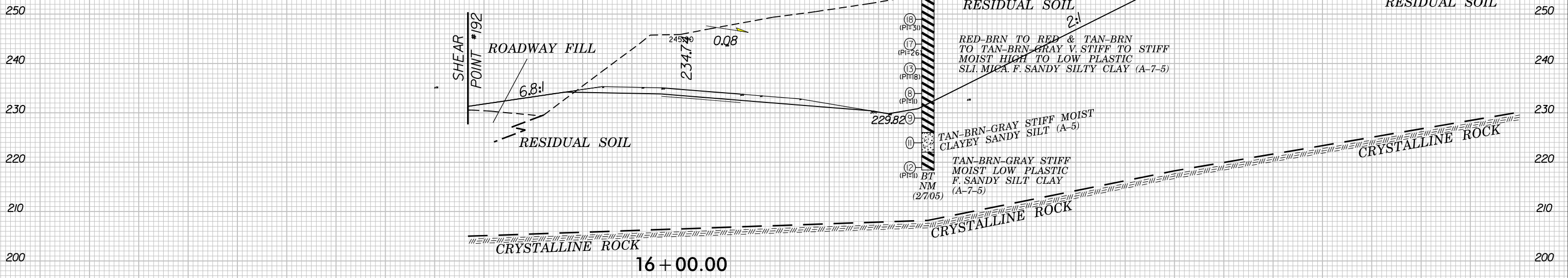


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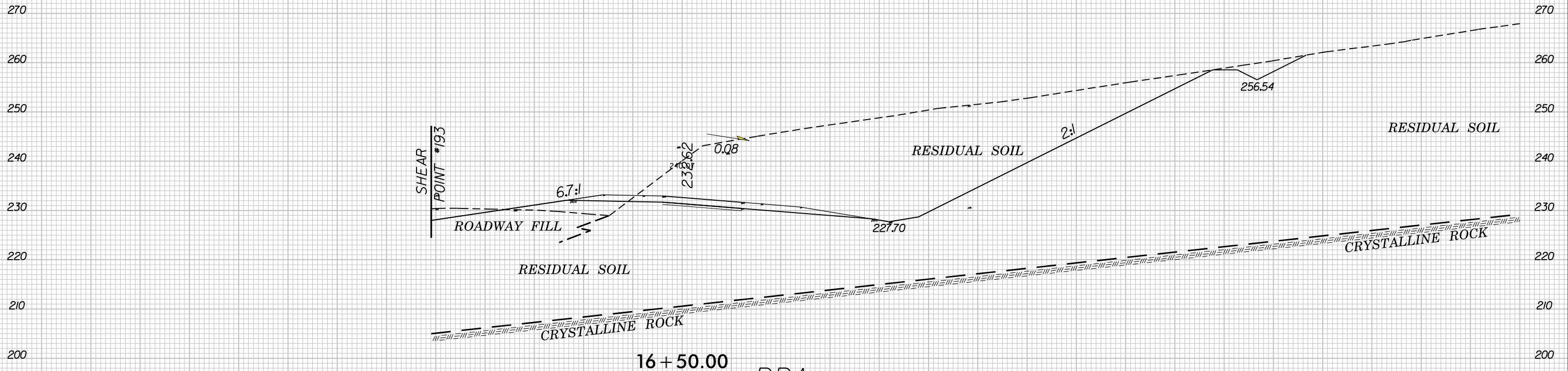
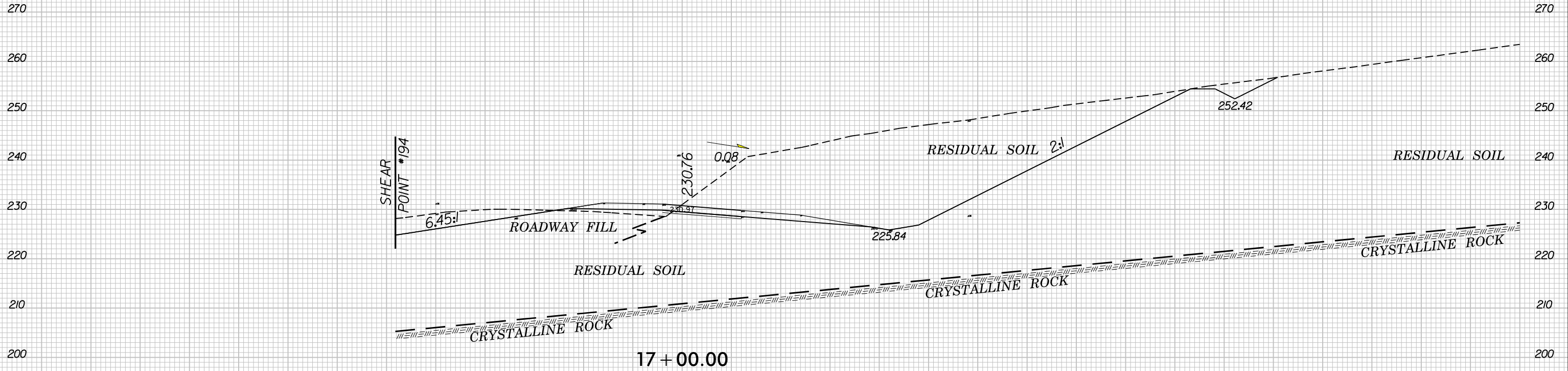
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-367	50RT	16+00	4.10-5.60	A-7-5(28)	69	31	12.8	10.4	7.7	69.1	100	92	78	-	-
SS-368	50RT	16+00	9.10-10.60	A-7-5(28)	65	26	2.8	13.2	29.1	54.9	100	99	87	-	-
SS-369	50RT	16+00	14.10-15.60	A-7-5(19)	57	18	3.0	19.1	35.2	42.7	100	99	83	30.3	-
SS-370	50RT	16+00	19.10-20.60	A-7-5(10)	46	11	5.7	25.0	34.8	34.6	100	99	75	-	-
SS-371	50RT	16+00	29.10-30.60	A-5(2)	49	5	22.4	30.9	30.5	16.3	100	90	52	-	-
SS-372	50RT	16+00	34.10-35.60	A-7-5(9)	49	11	7.5	30.7	41.5	20.3	98	96	68	38.7	-

SS-367
SS-368
SS-369
MS-369
SS-370
SS-371
SS-372
MS-372





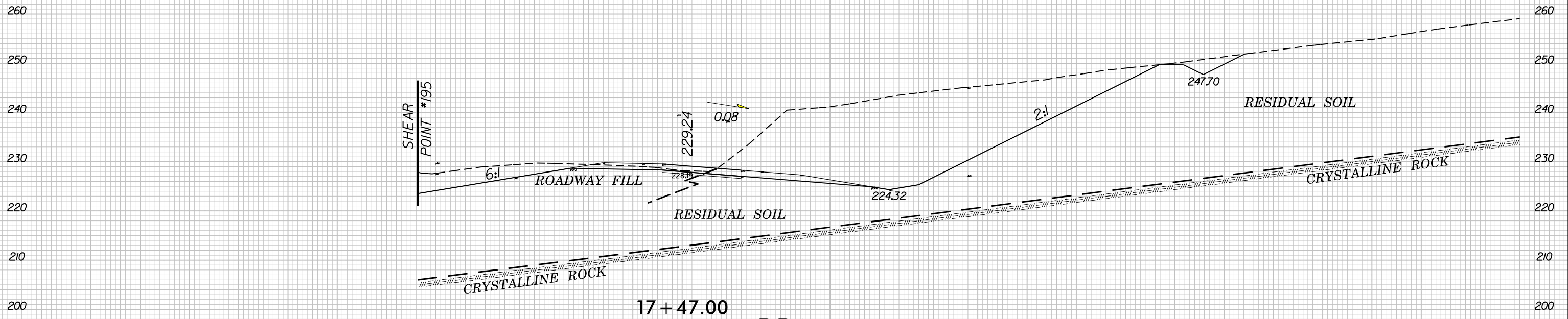
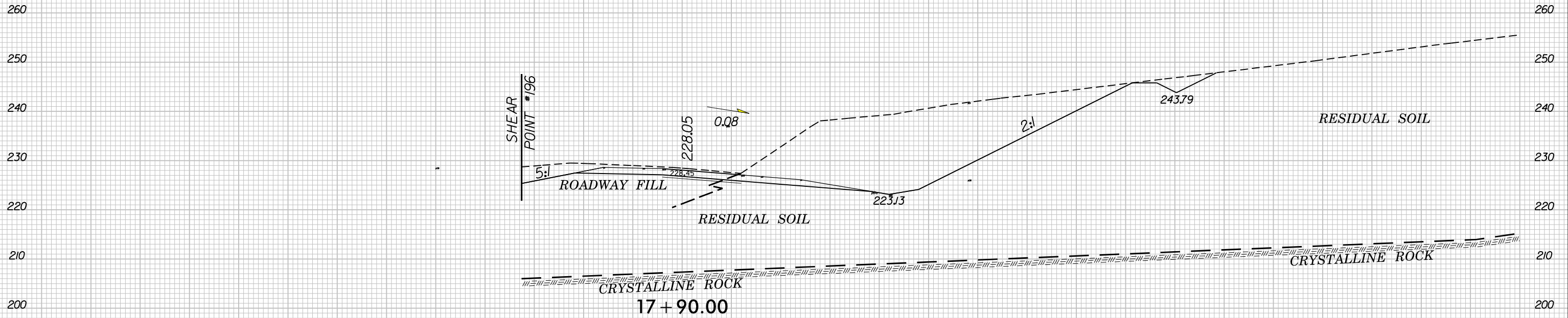
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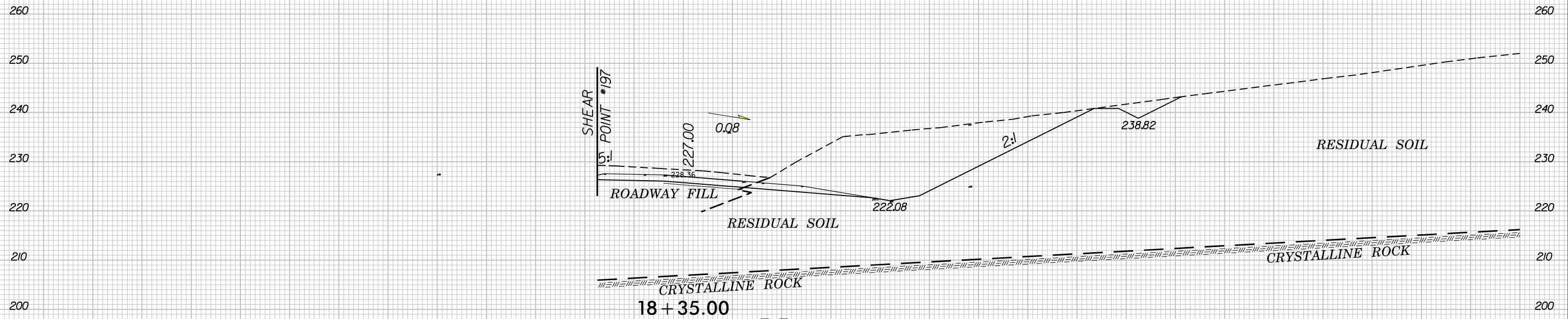
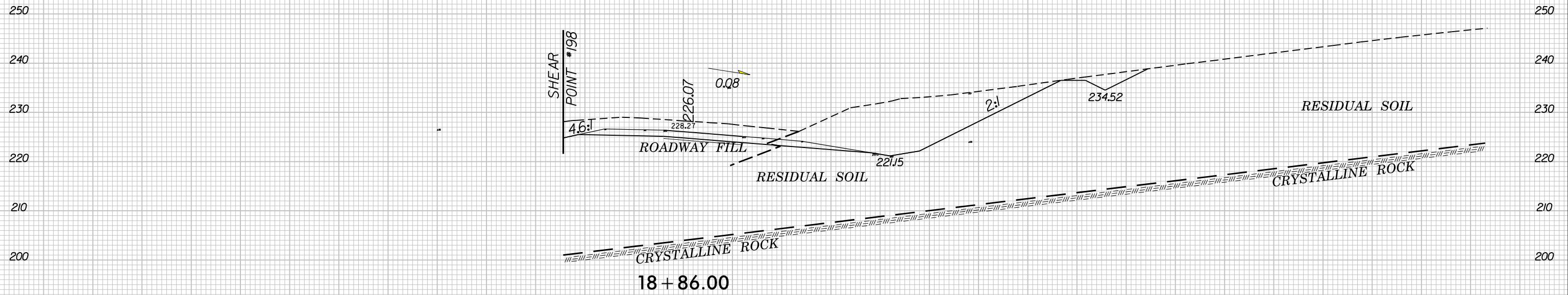
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