

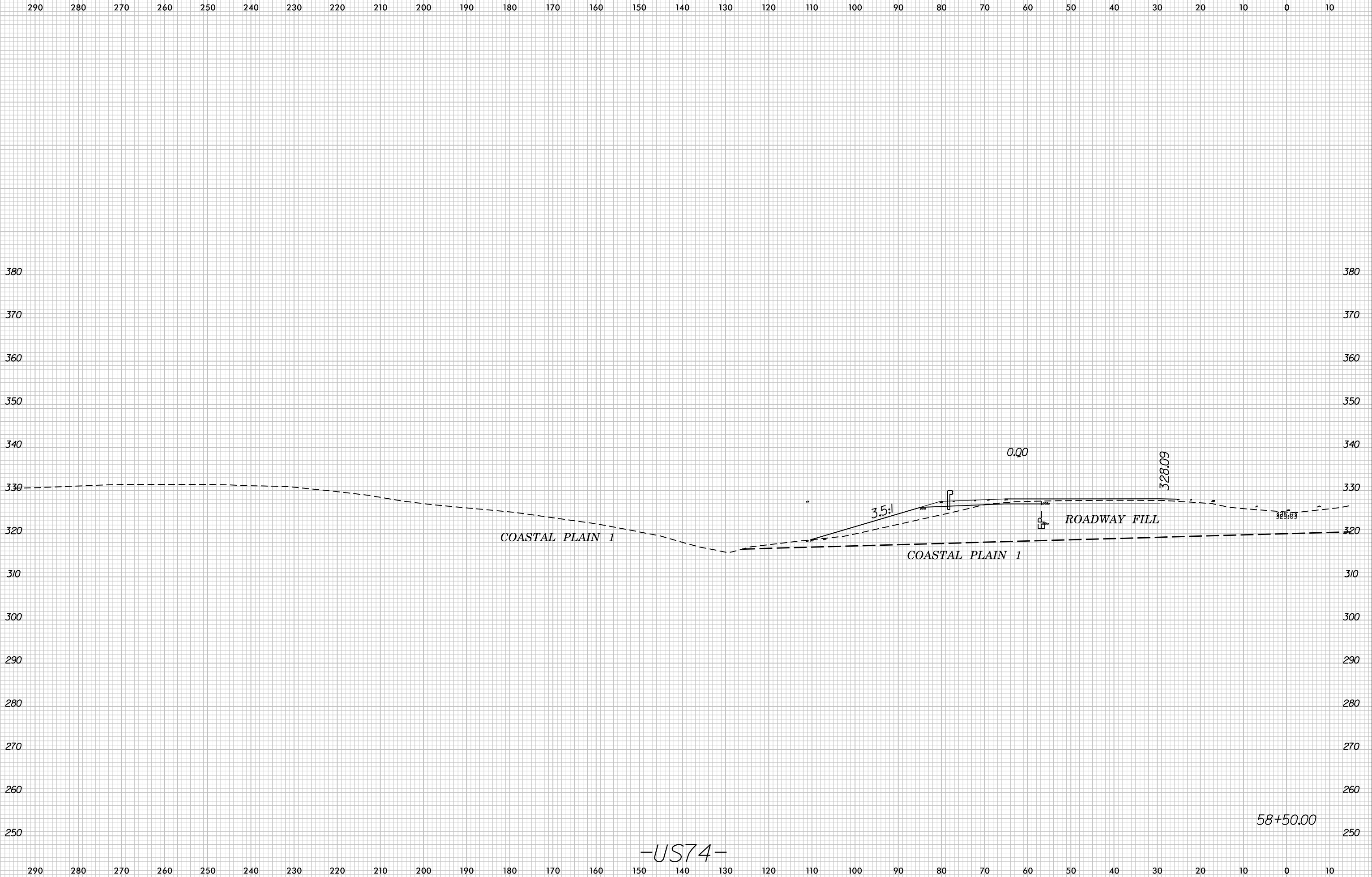
R-3421A

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
INVENTORY
SECTION 2

REFERENCE: R-3421A

PROJECT: 34542

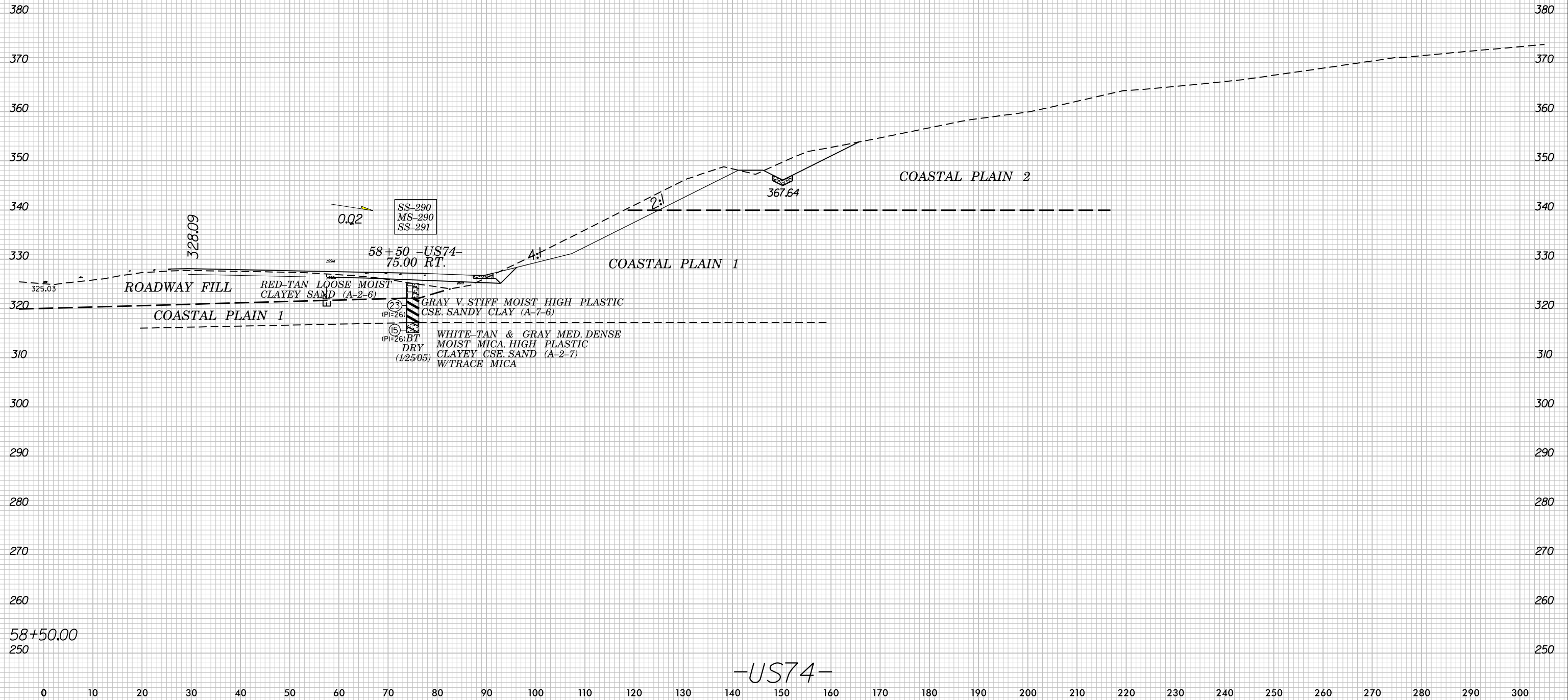
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INITIALS
1/8/2016
DATE

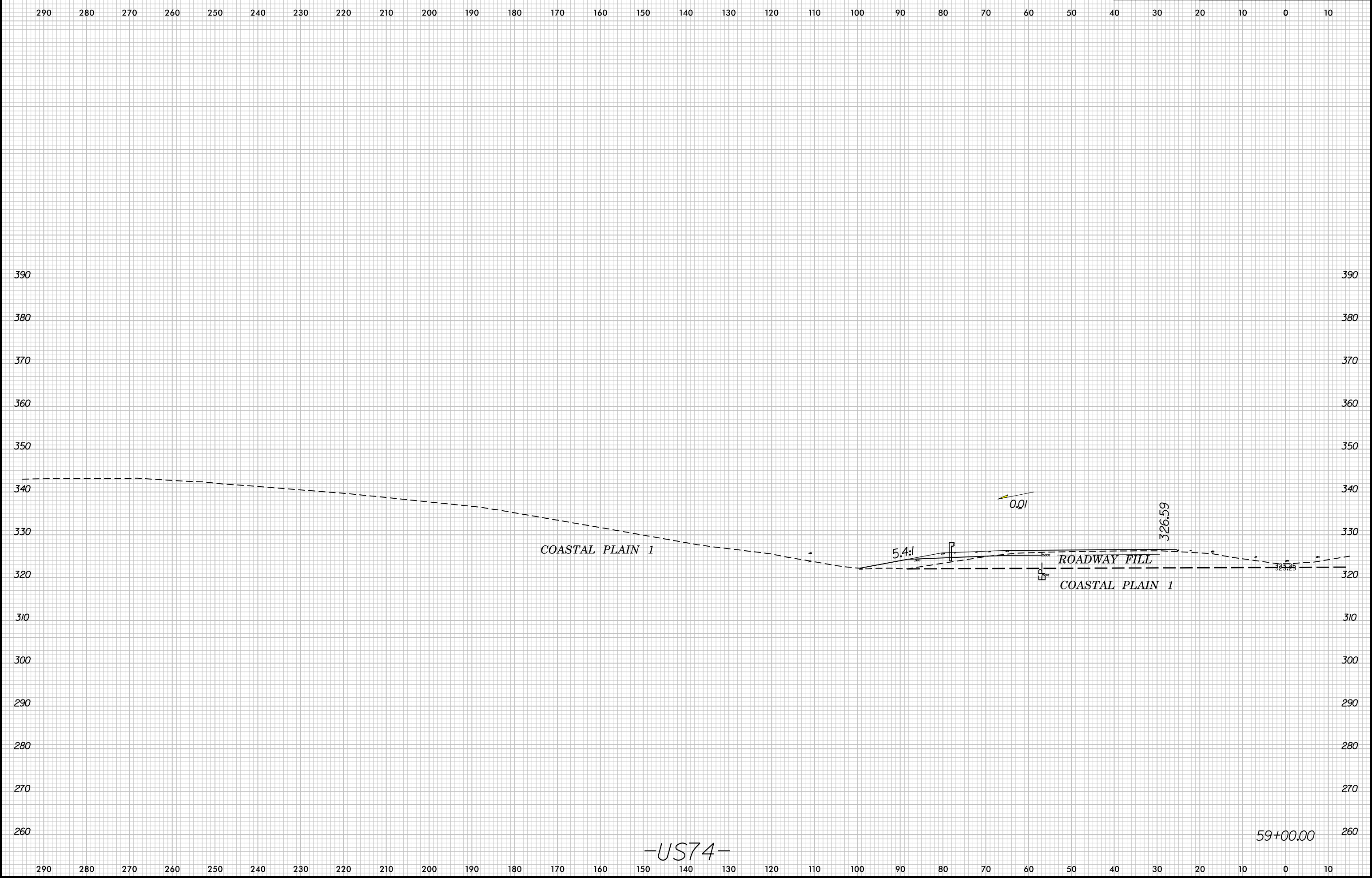


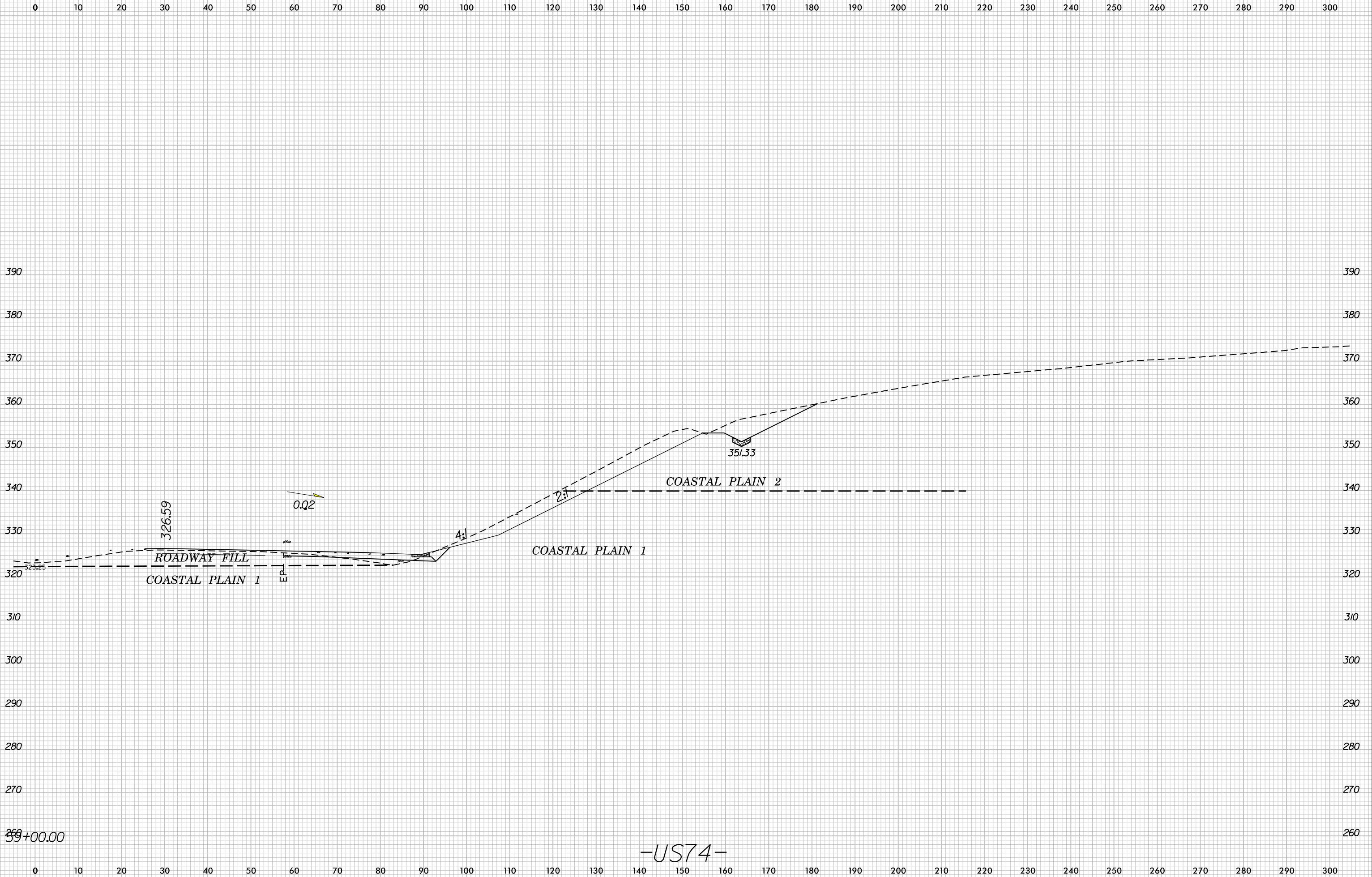
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SOIL TEST RESULTS

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-290	75 RT	58+50	3.50-5.00	A-7-6(4)	47	26	50.8	12.1	4.1	32.9	95	62	36	11.0	-
SS-291	75 RT	58+50	8.50-10.00	A-2-7(2)	45	26	58.7	14.6	2.0	24.7	98	59	27	-	-

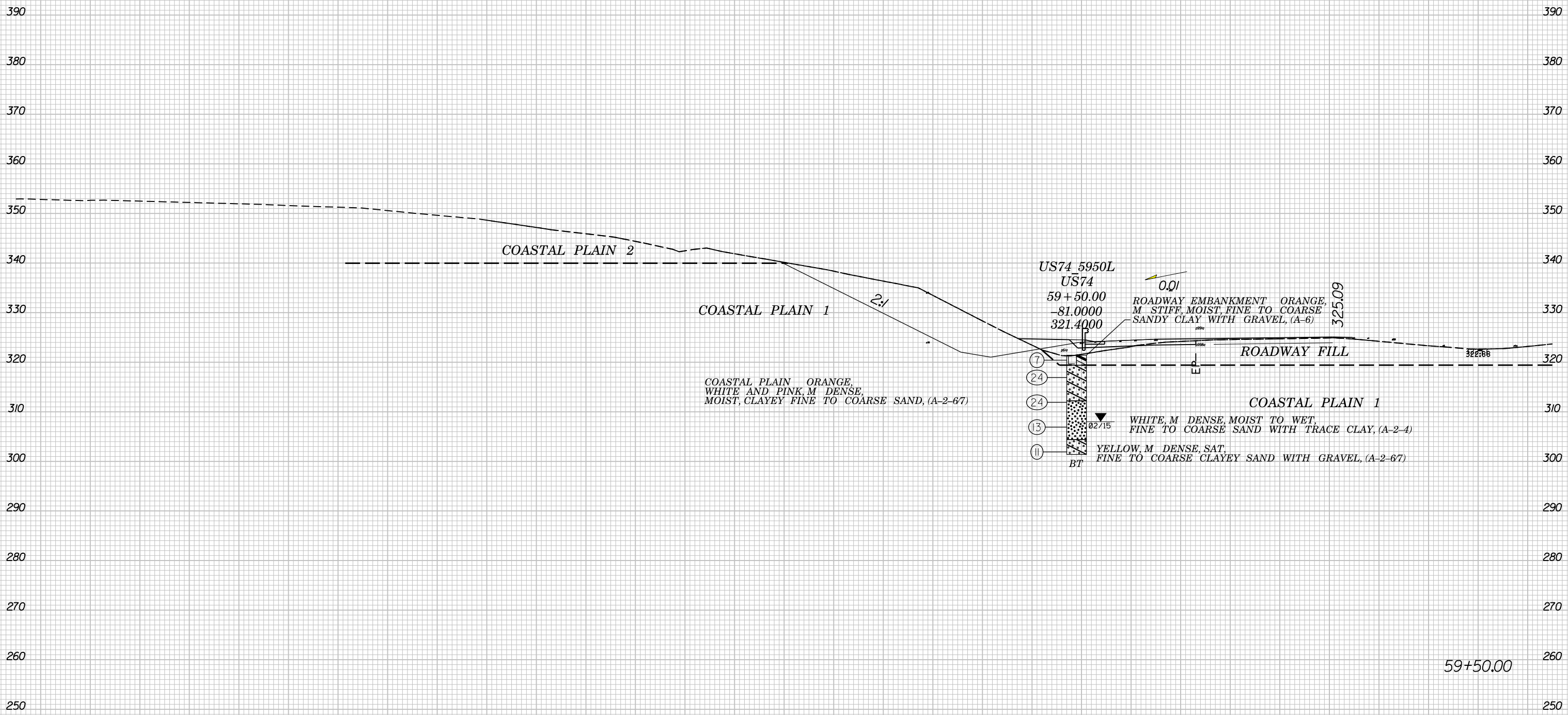






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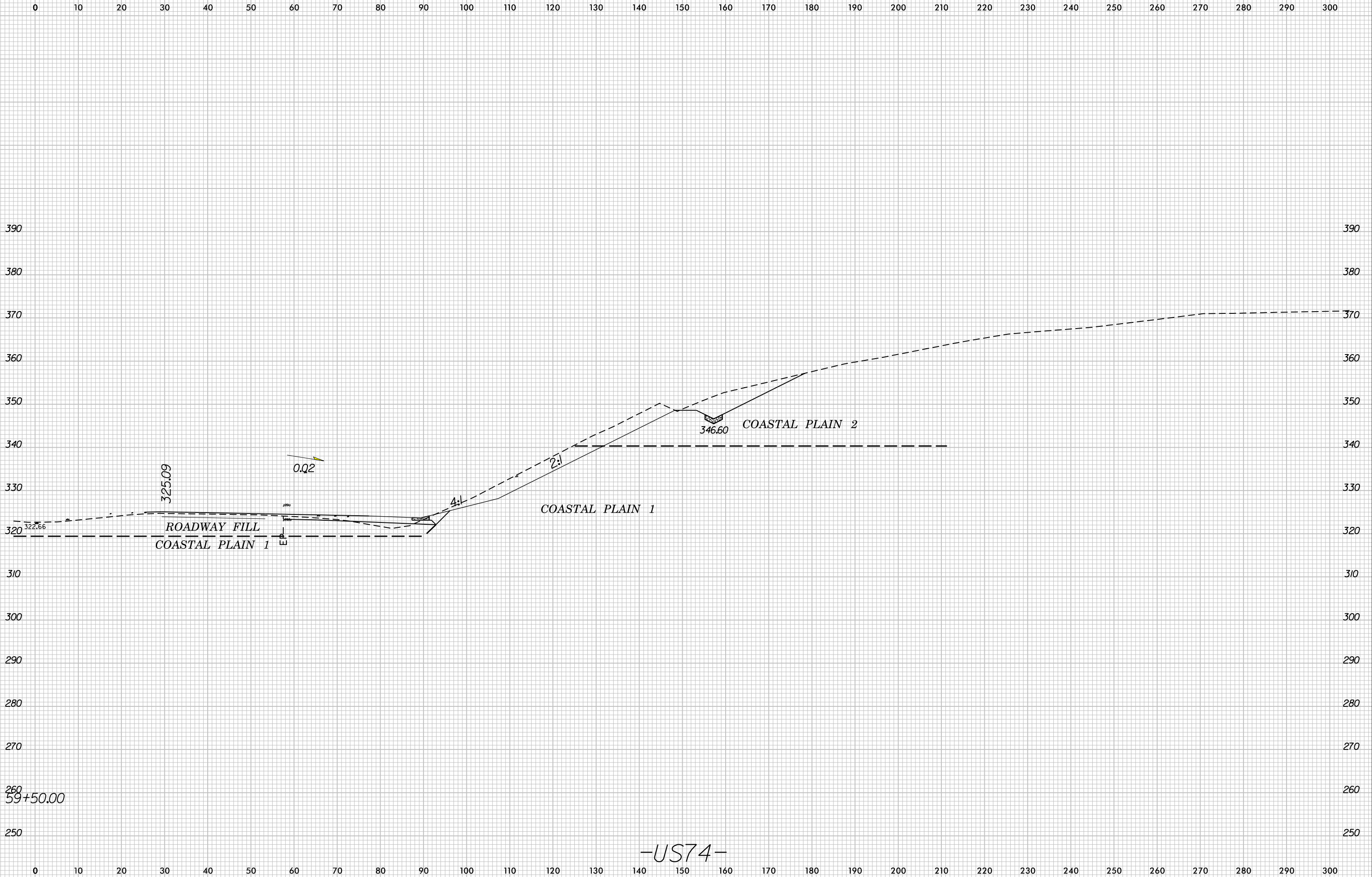
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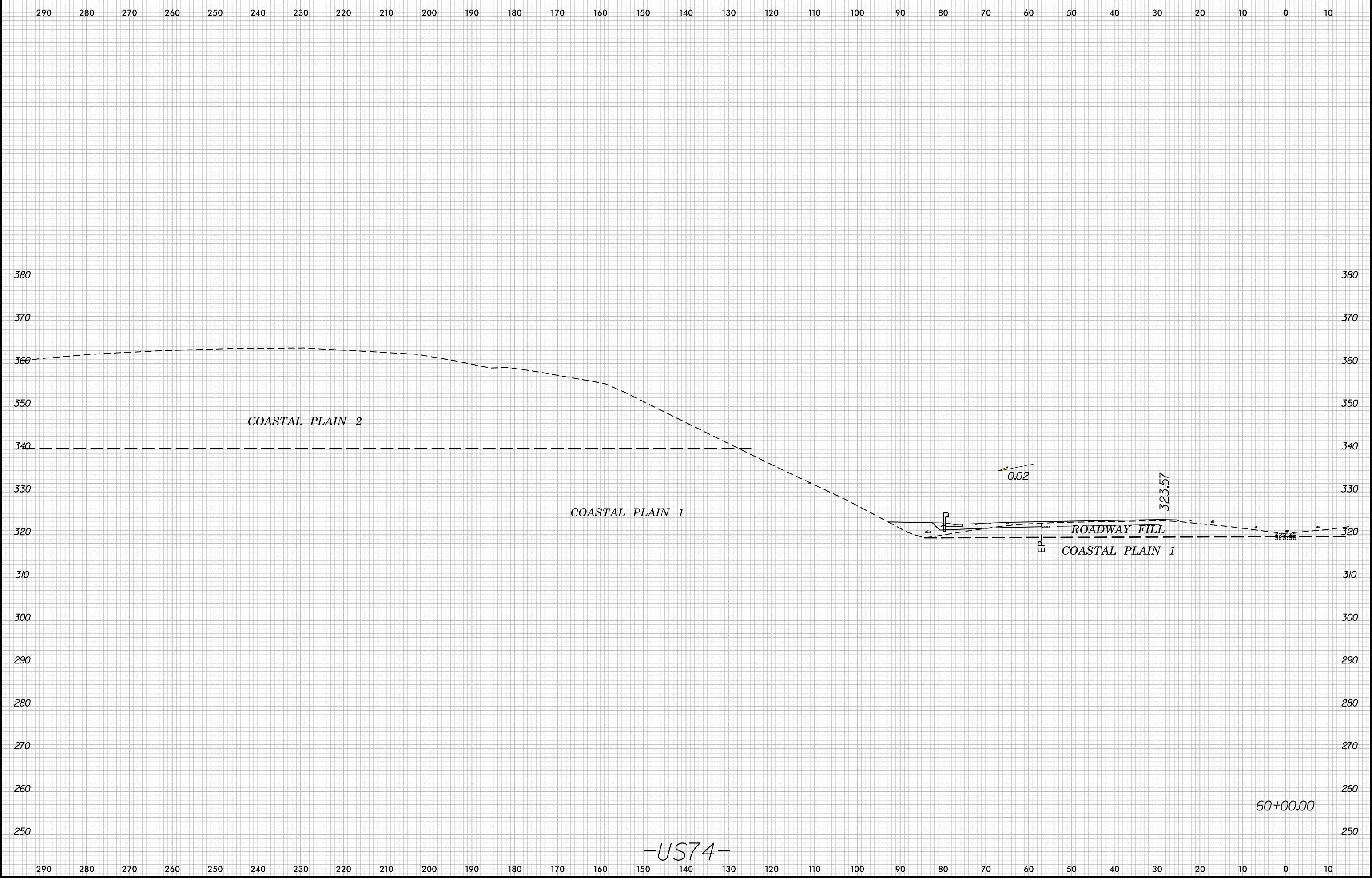


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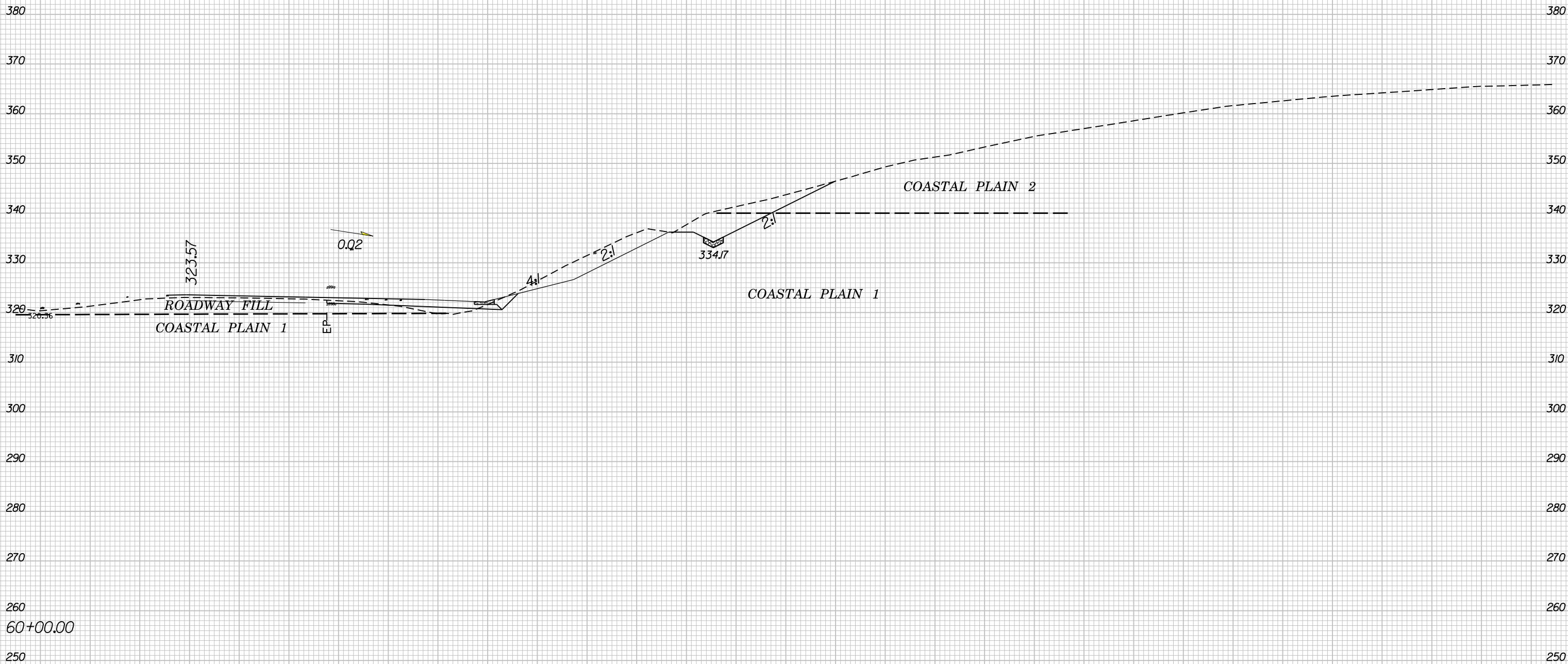
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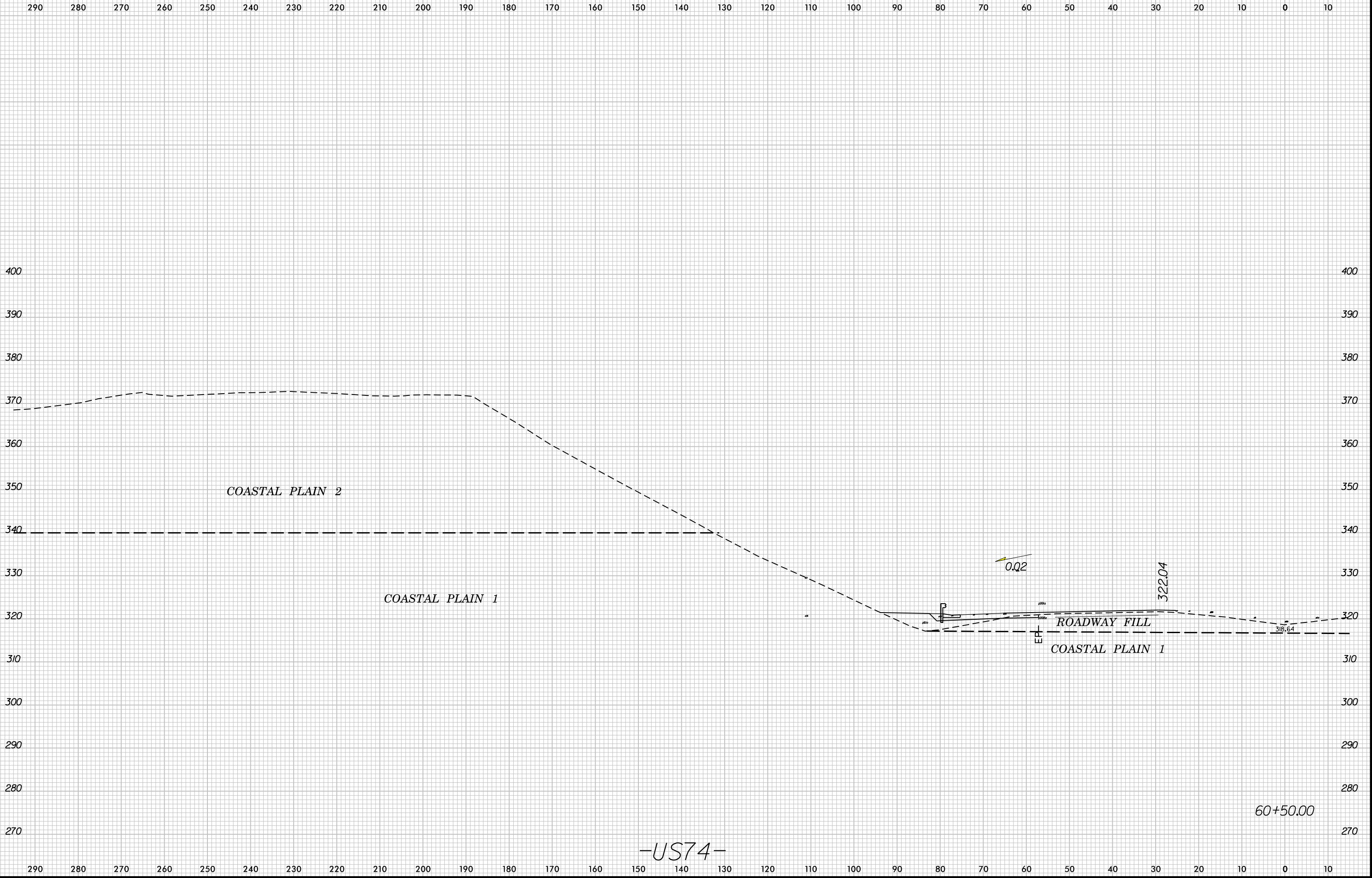


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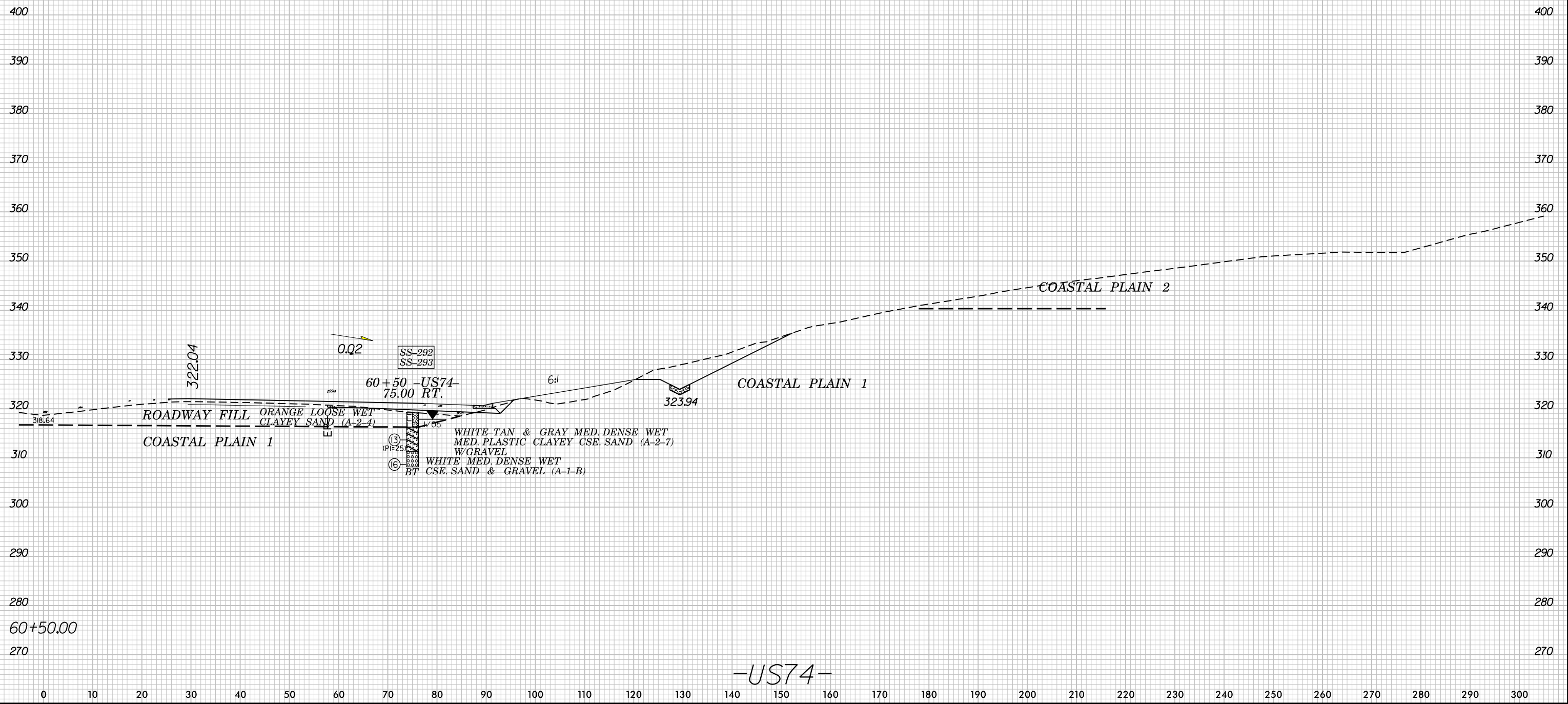
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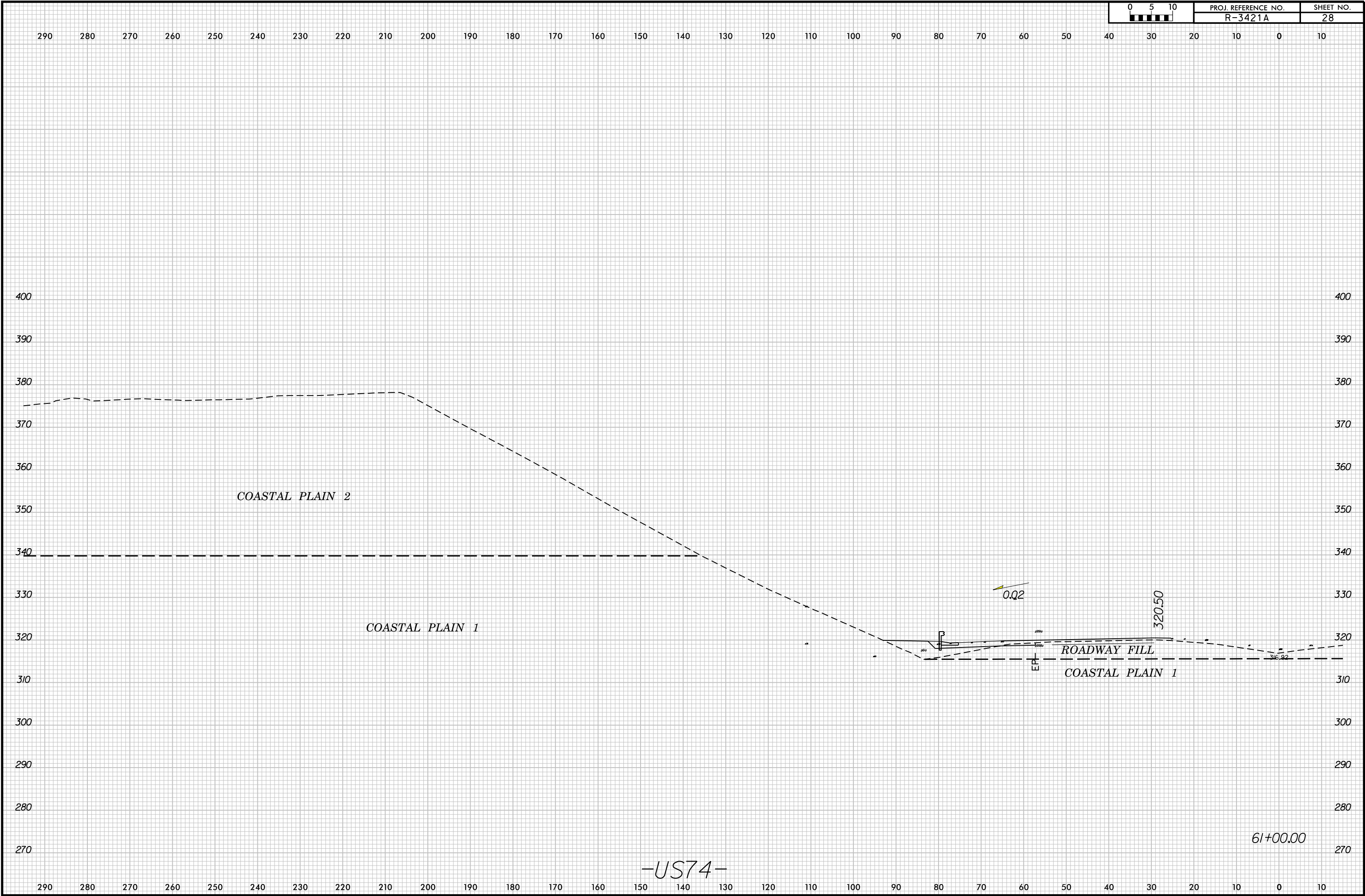
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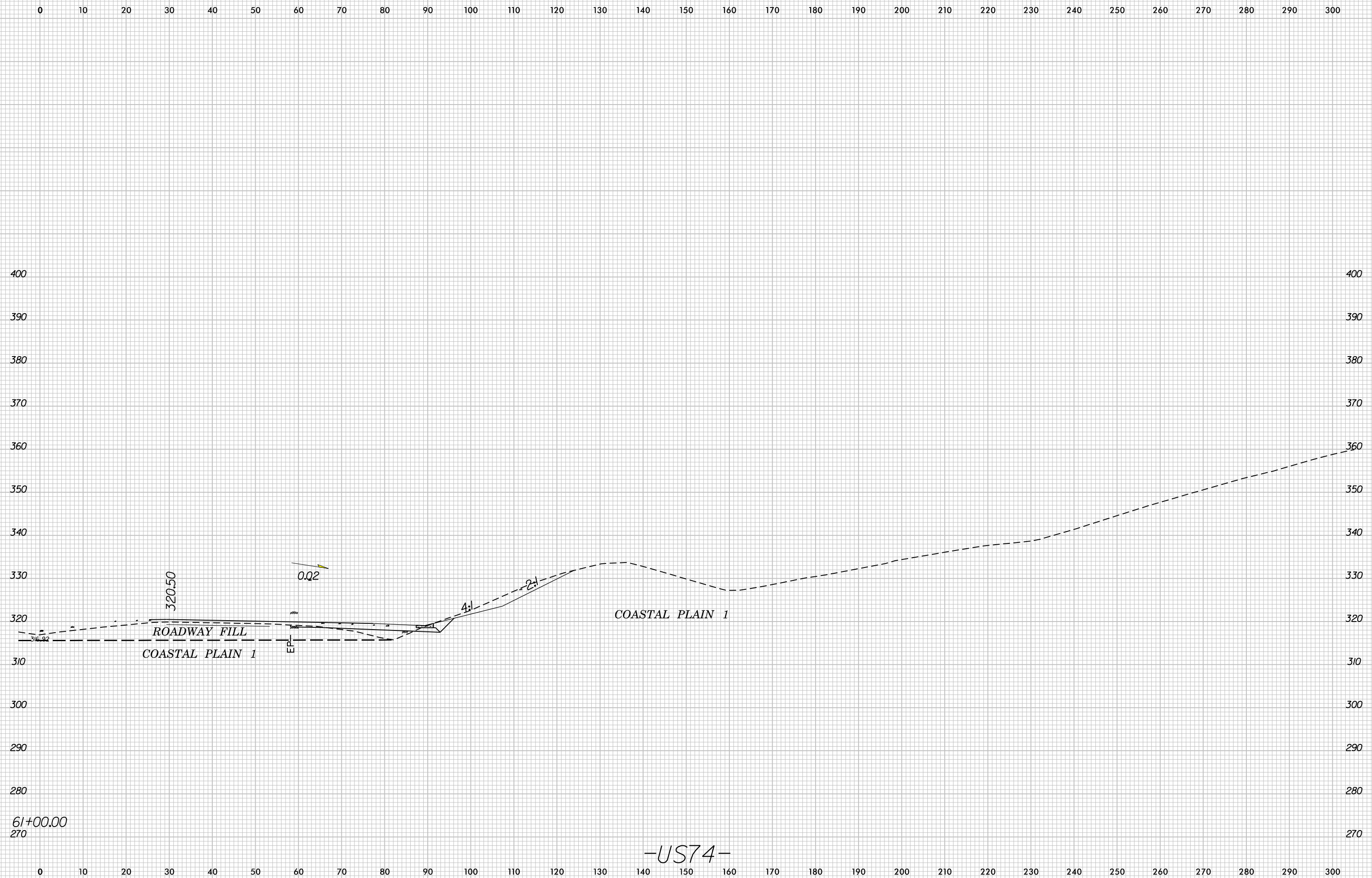
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SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-292	75 RT	60+50	4.60-6.10	A-2-7(1)	44	25	63.6	13.0	2.9	20.6	81	43	20	-	-
SS-293	75 RT	60+50	9.60-11.10	A-1-b(0)	22	2	59.7	25.7	6.4	8.2	62	37	11	-	-



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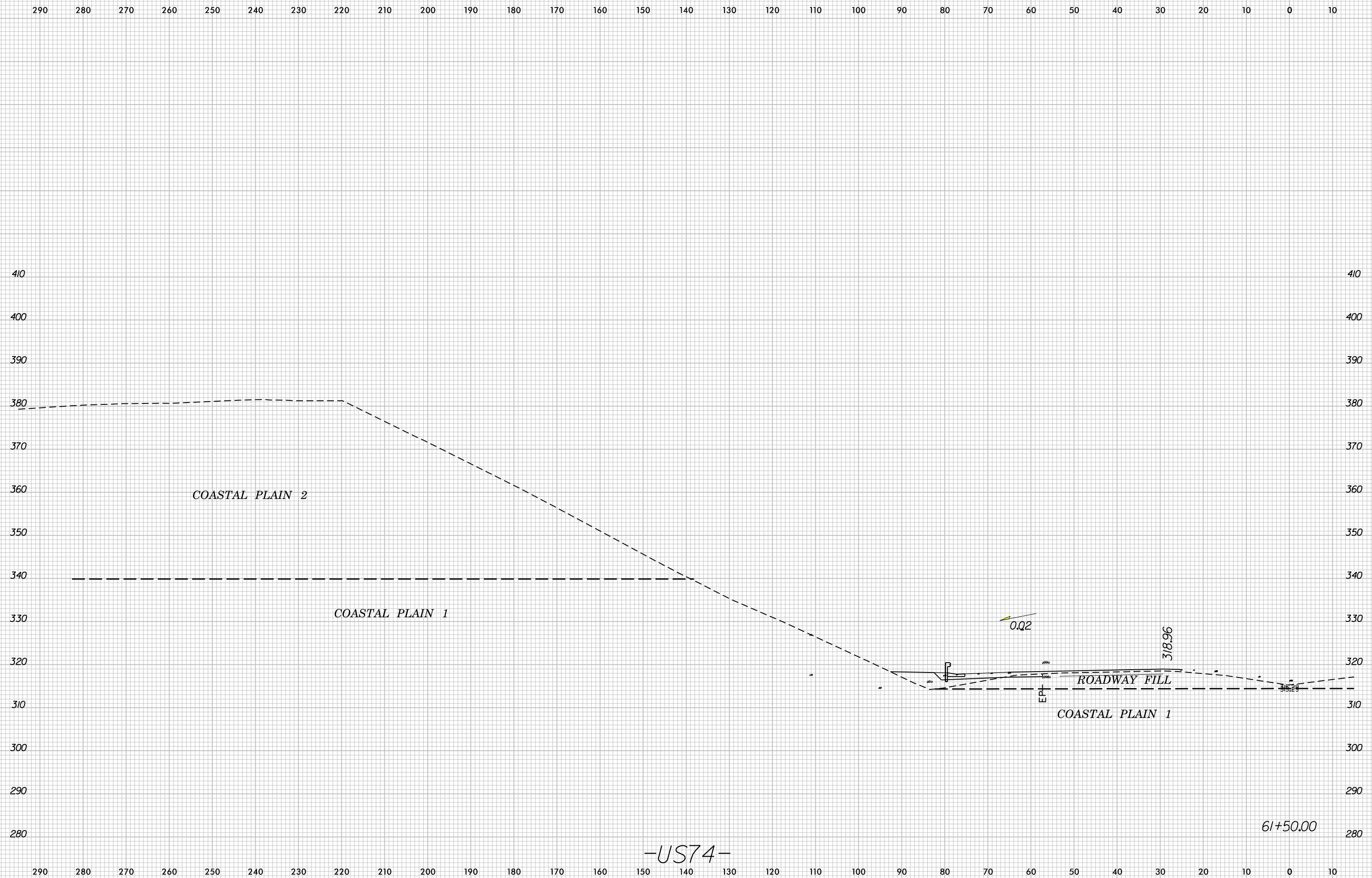


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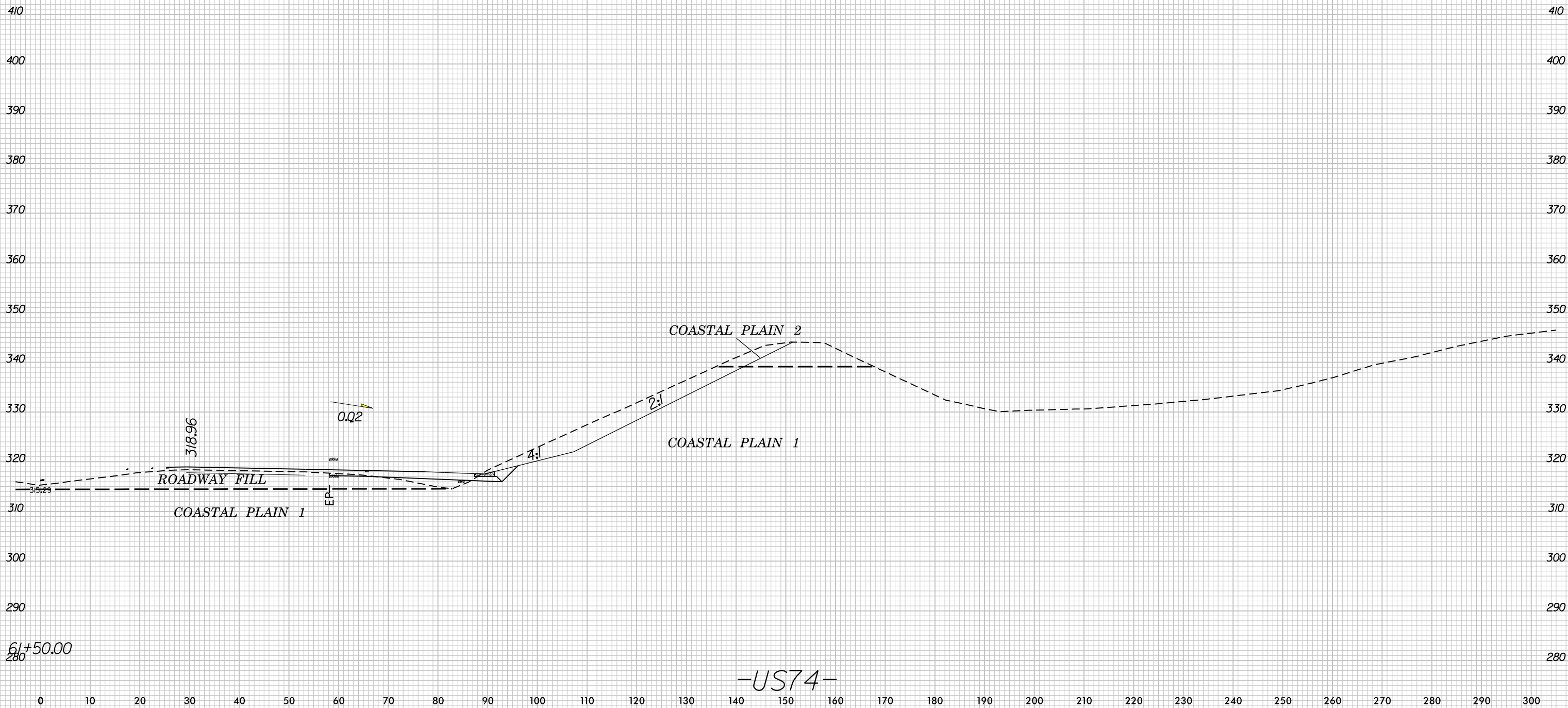
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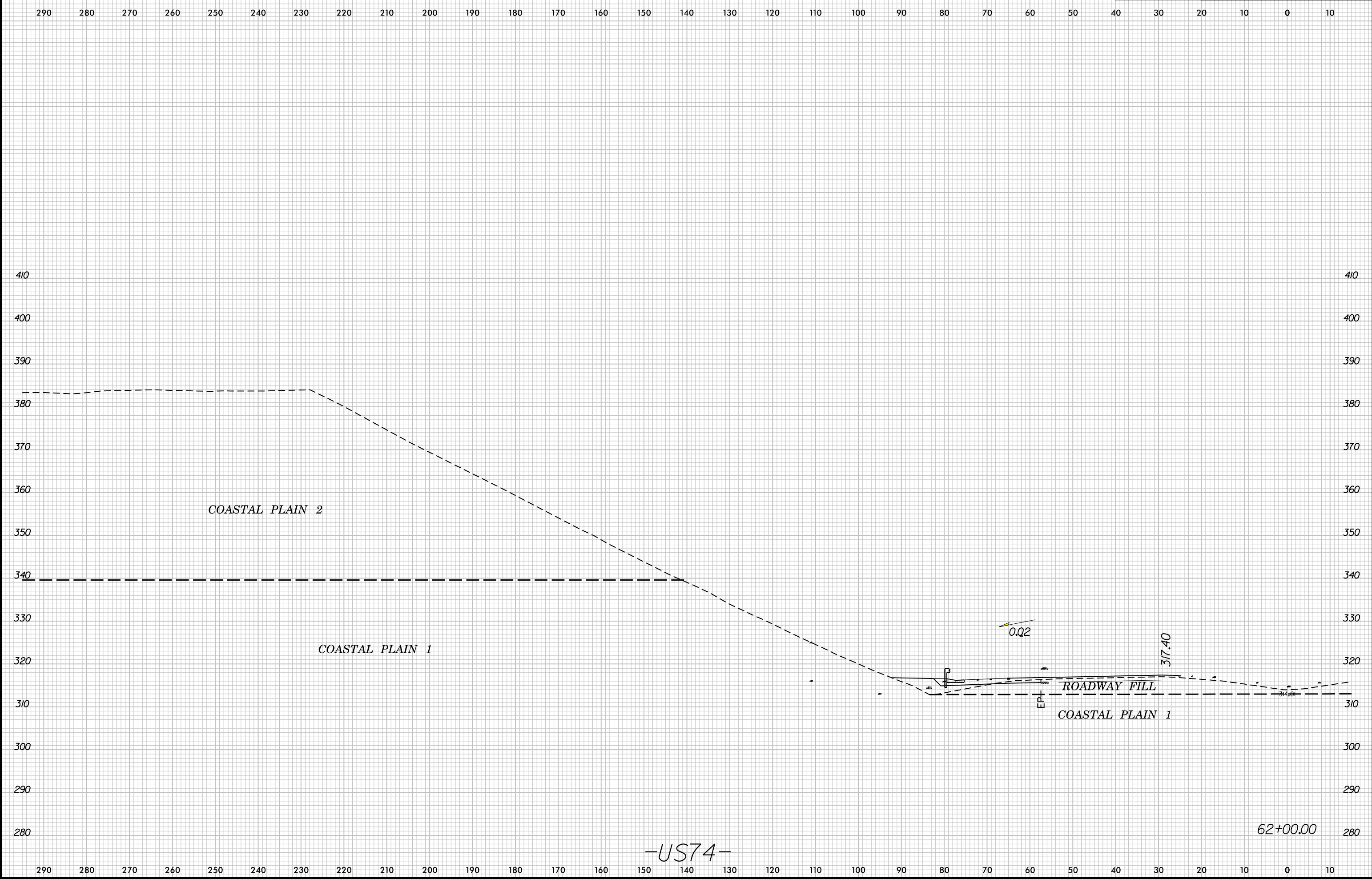
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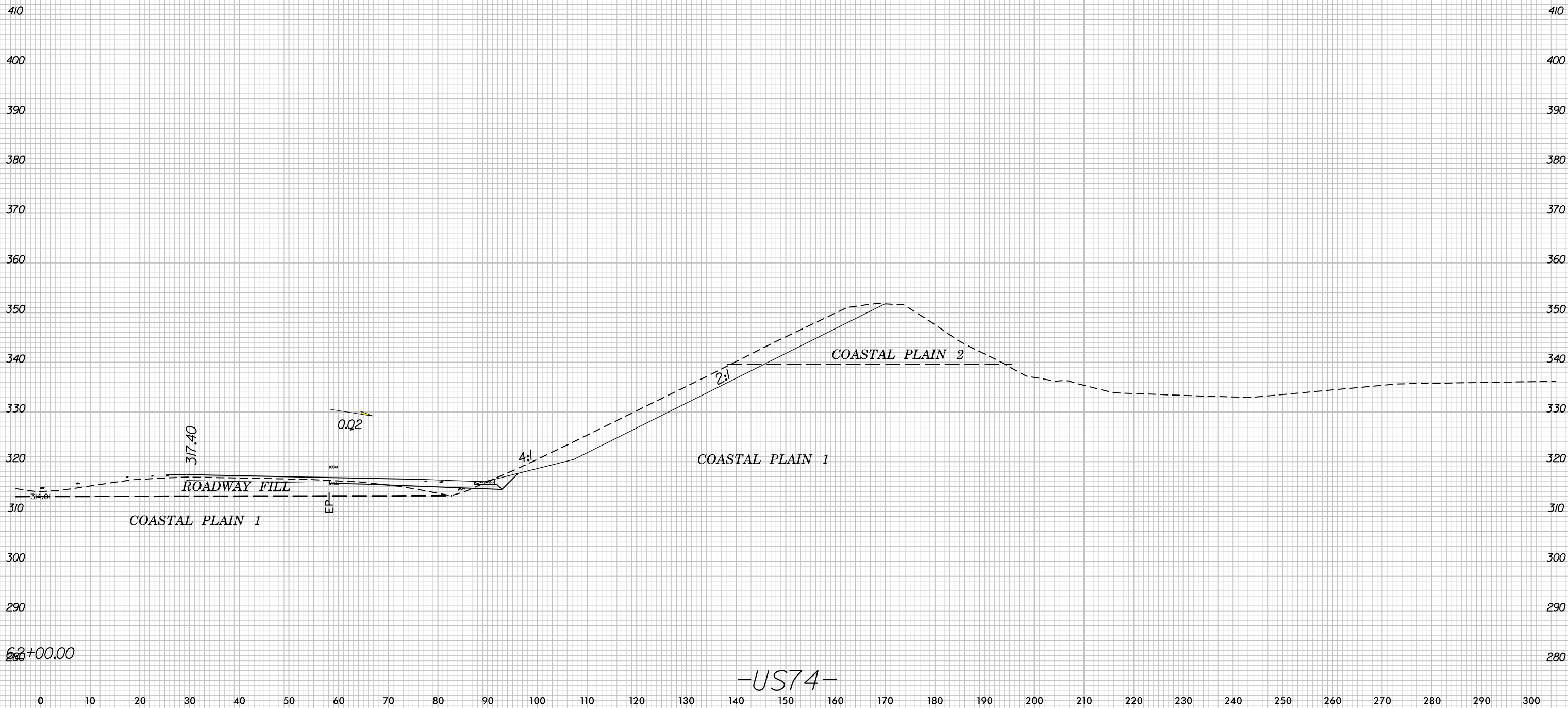
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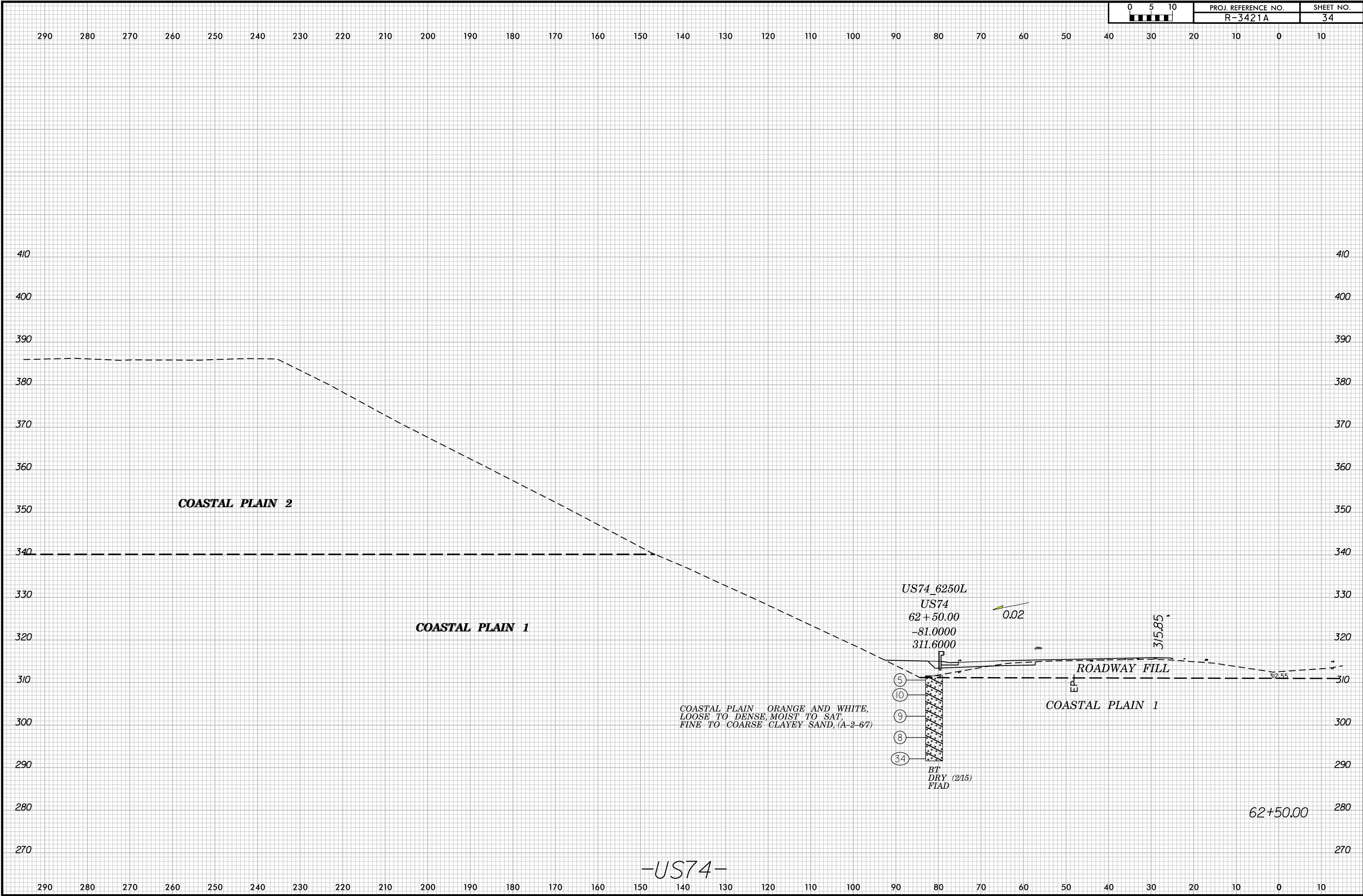
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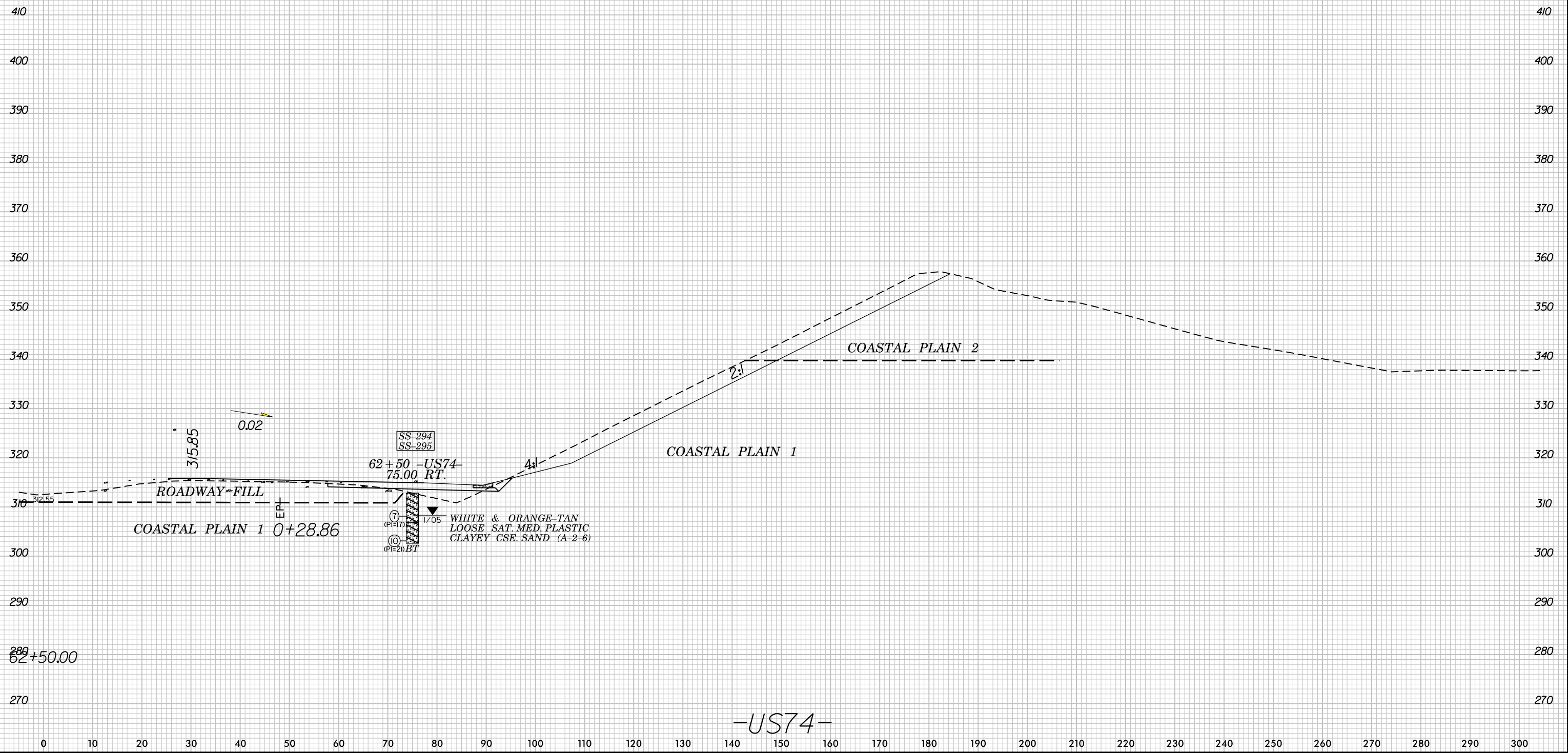


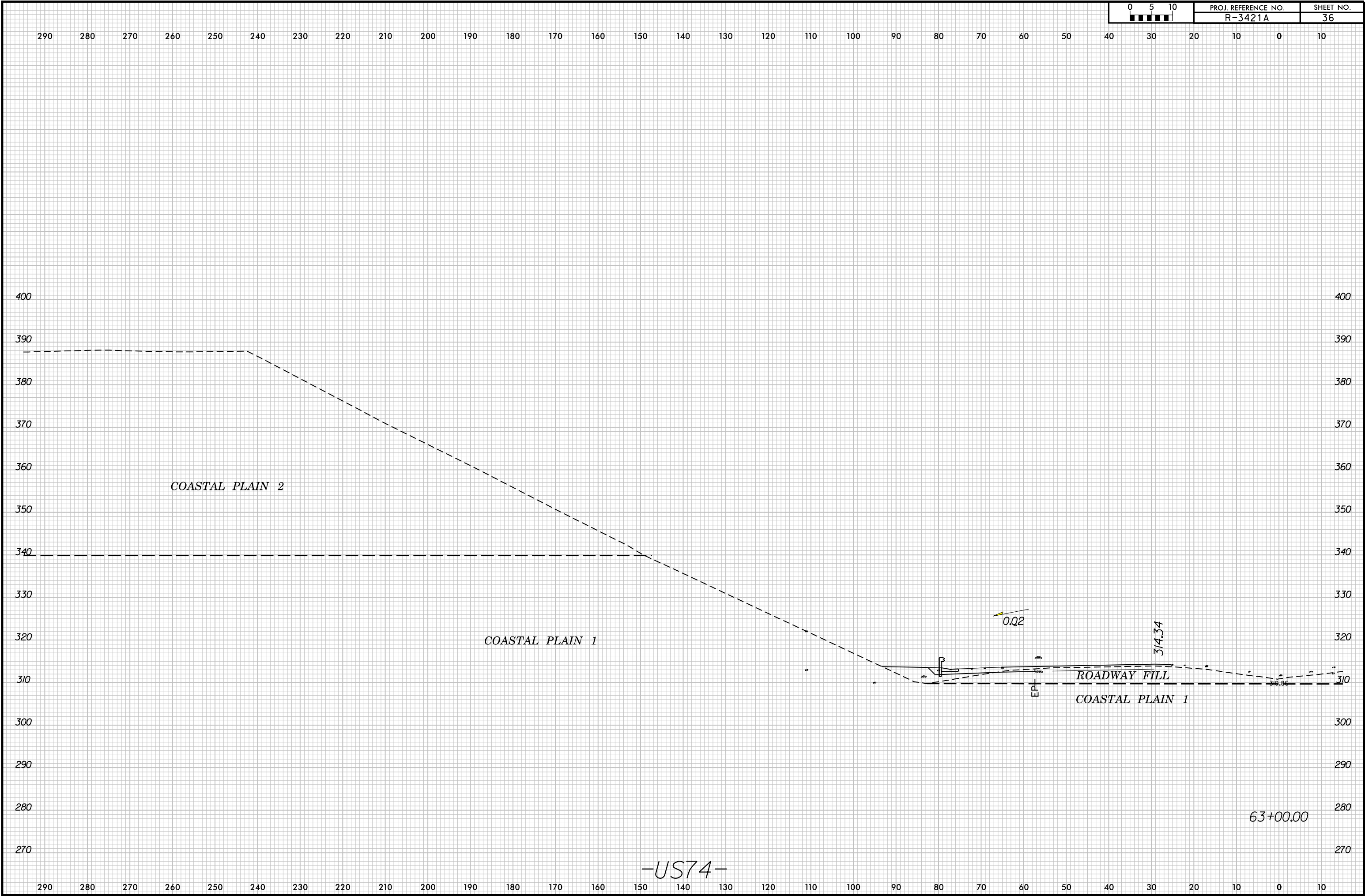


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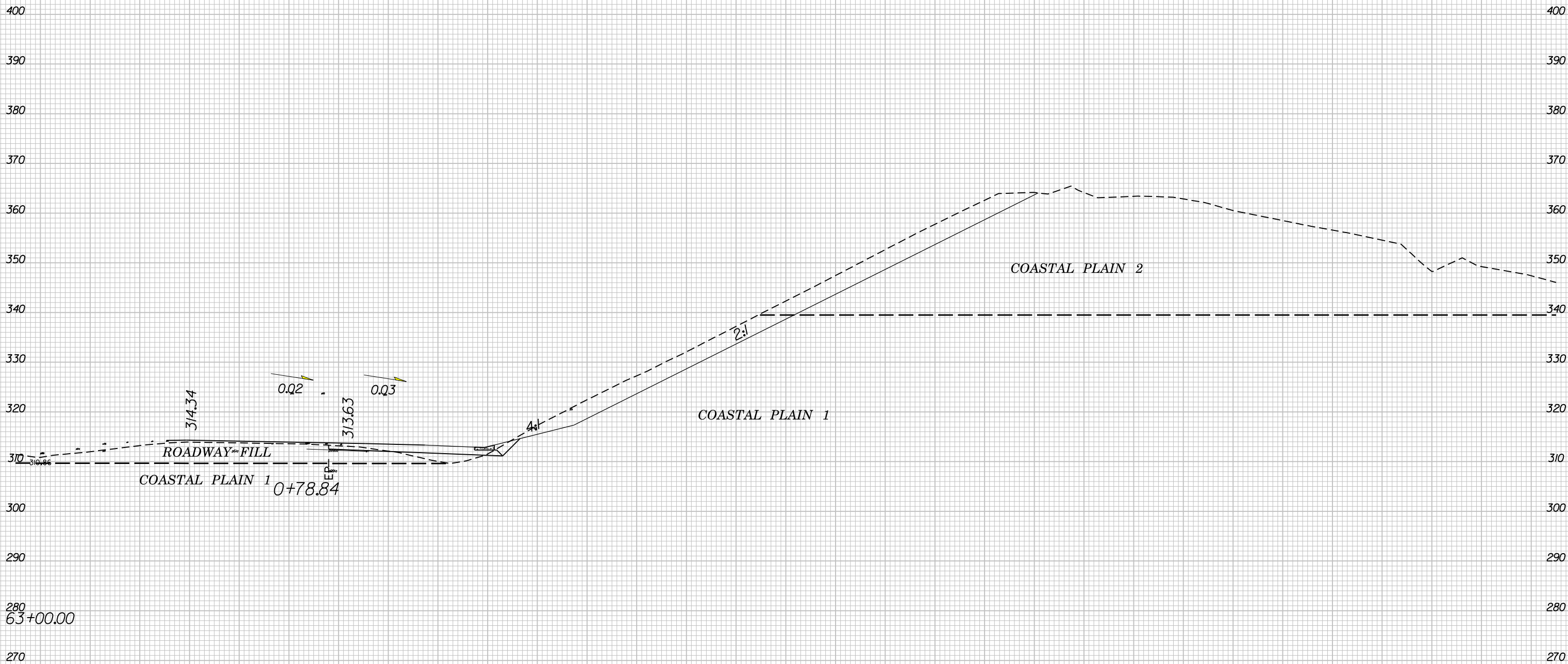
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
			US74												
SS-294	75 RT	62+50	3.70-5.20	A-2-6(0)	35	17	79.3	8.0	1.3	11.3	92	46	12	-	-
SS-295	75 RT	62+50	8.70-10.20	A-2-6(0)	40	21	68.5	17.6	1.5	12.3	88	45	13	-	-



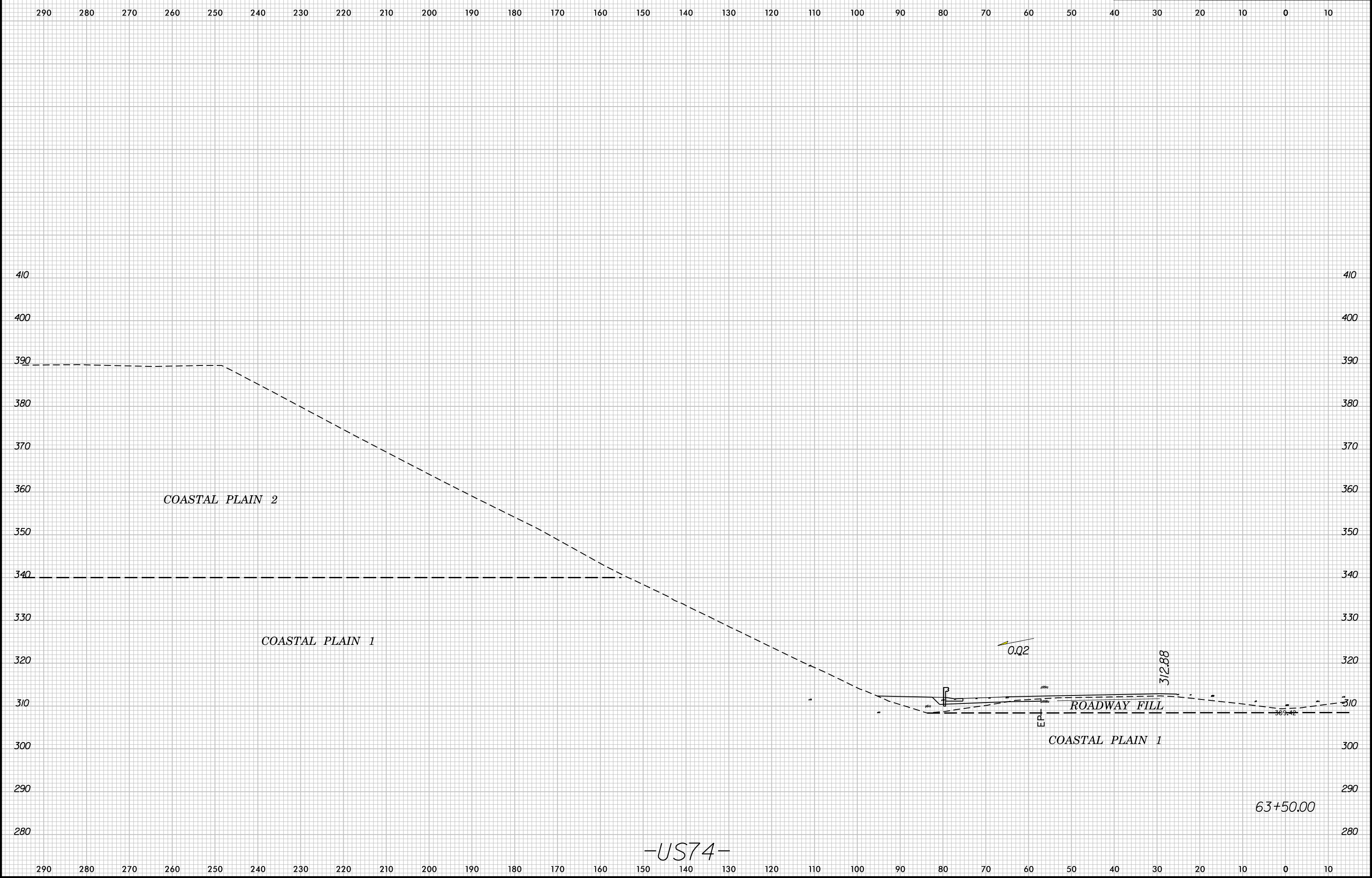


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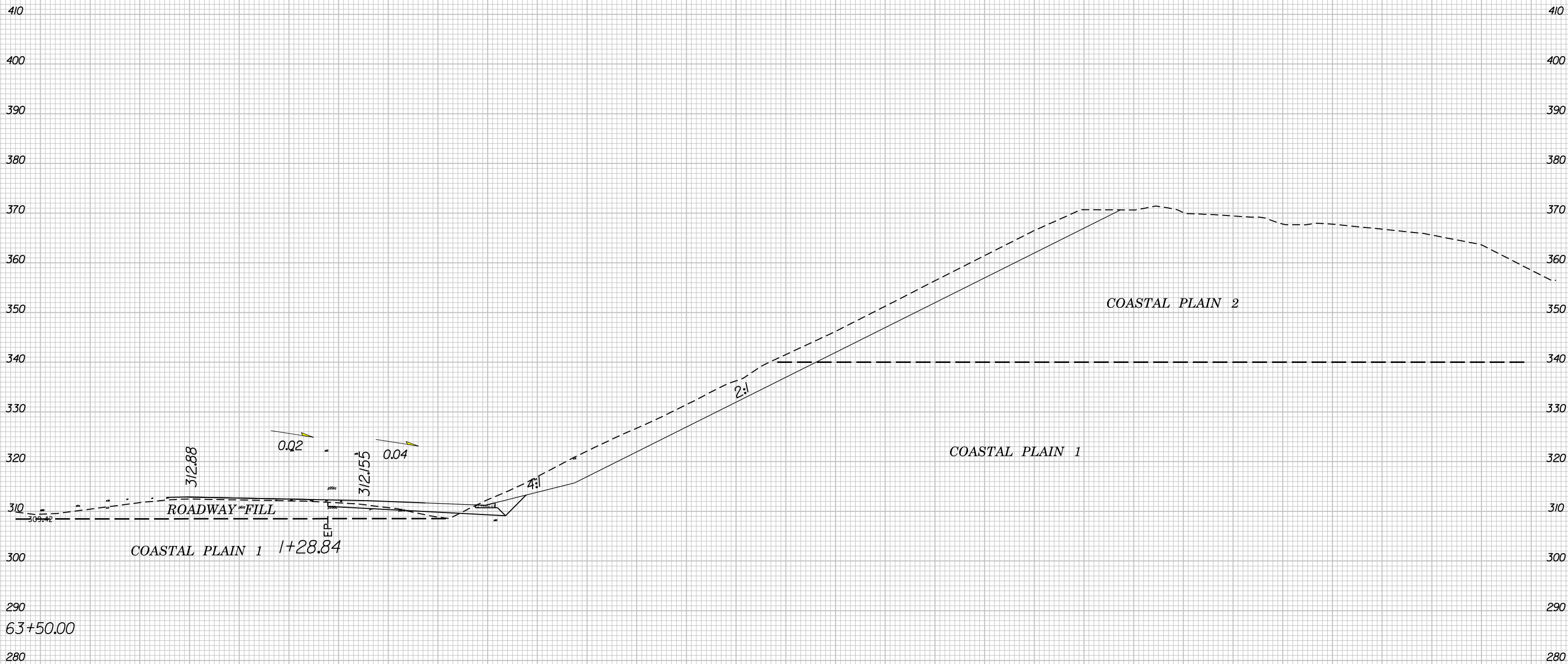


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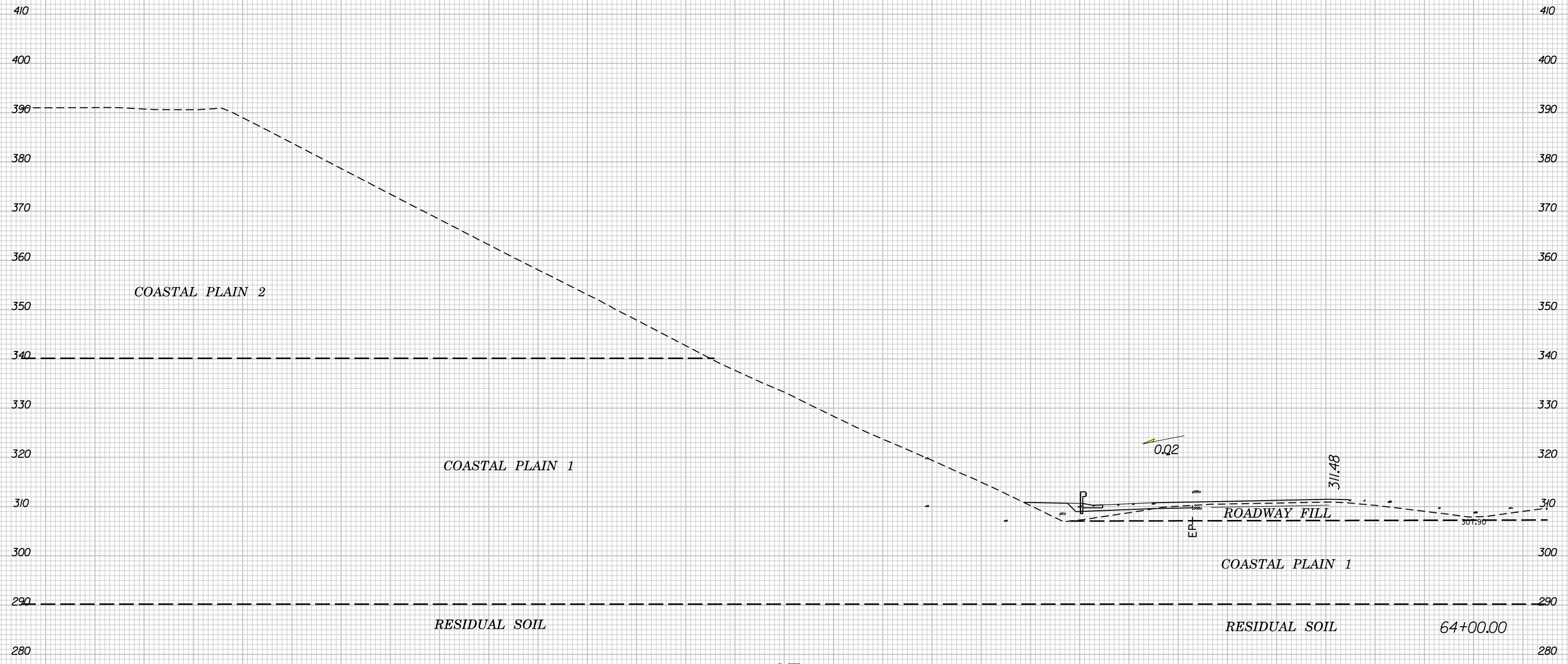
8/23/99



PROJ. REFERENCE NO.	R-3421A
SHEET NO.	40

PROJ. REFERENCE NO.	R-3421A
SHEET NO.	40

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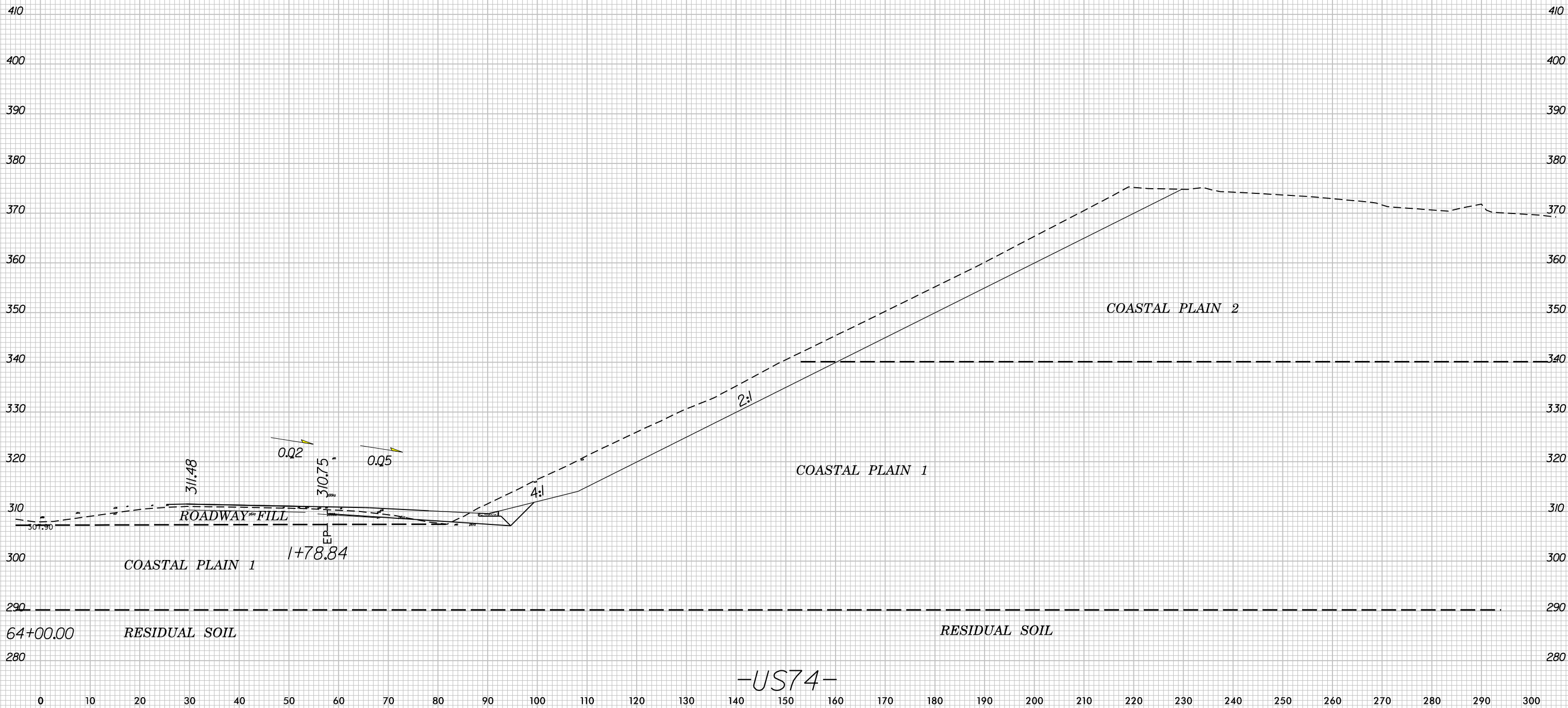


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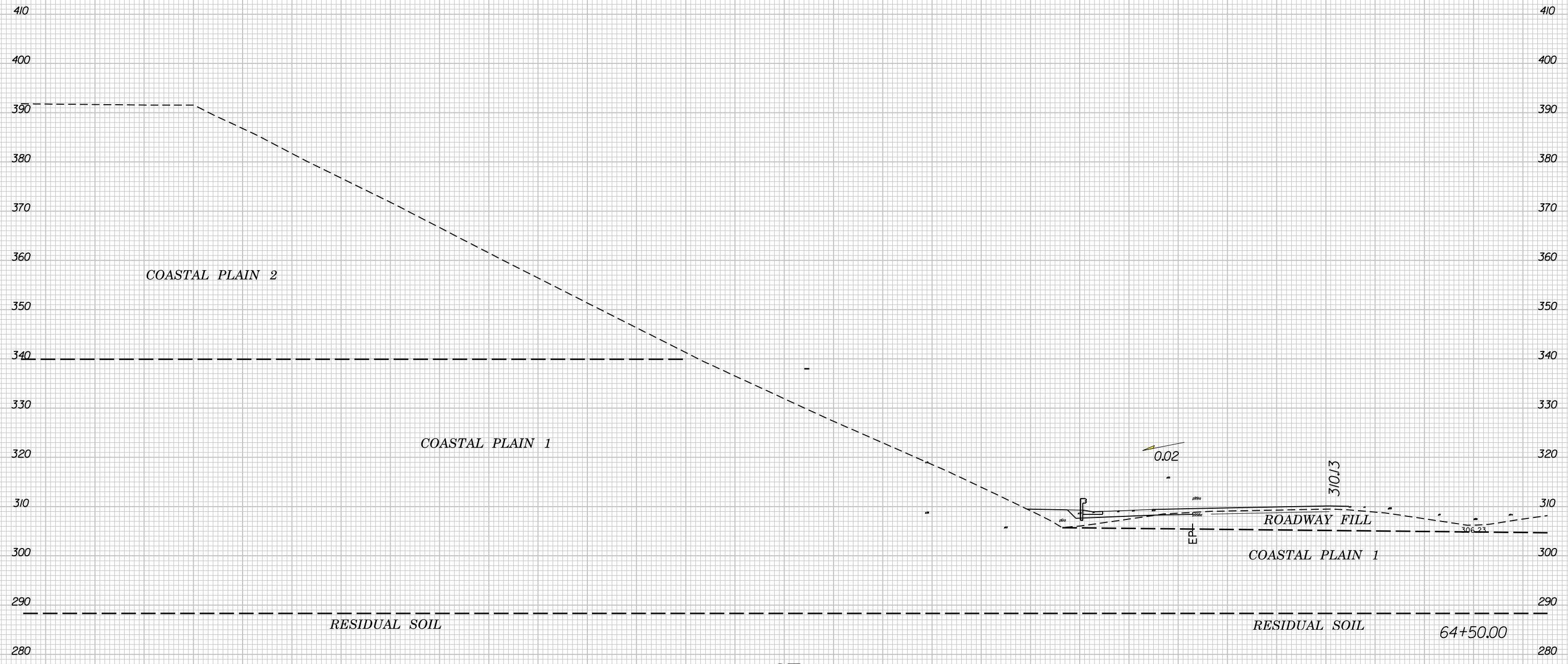
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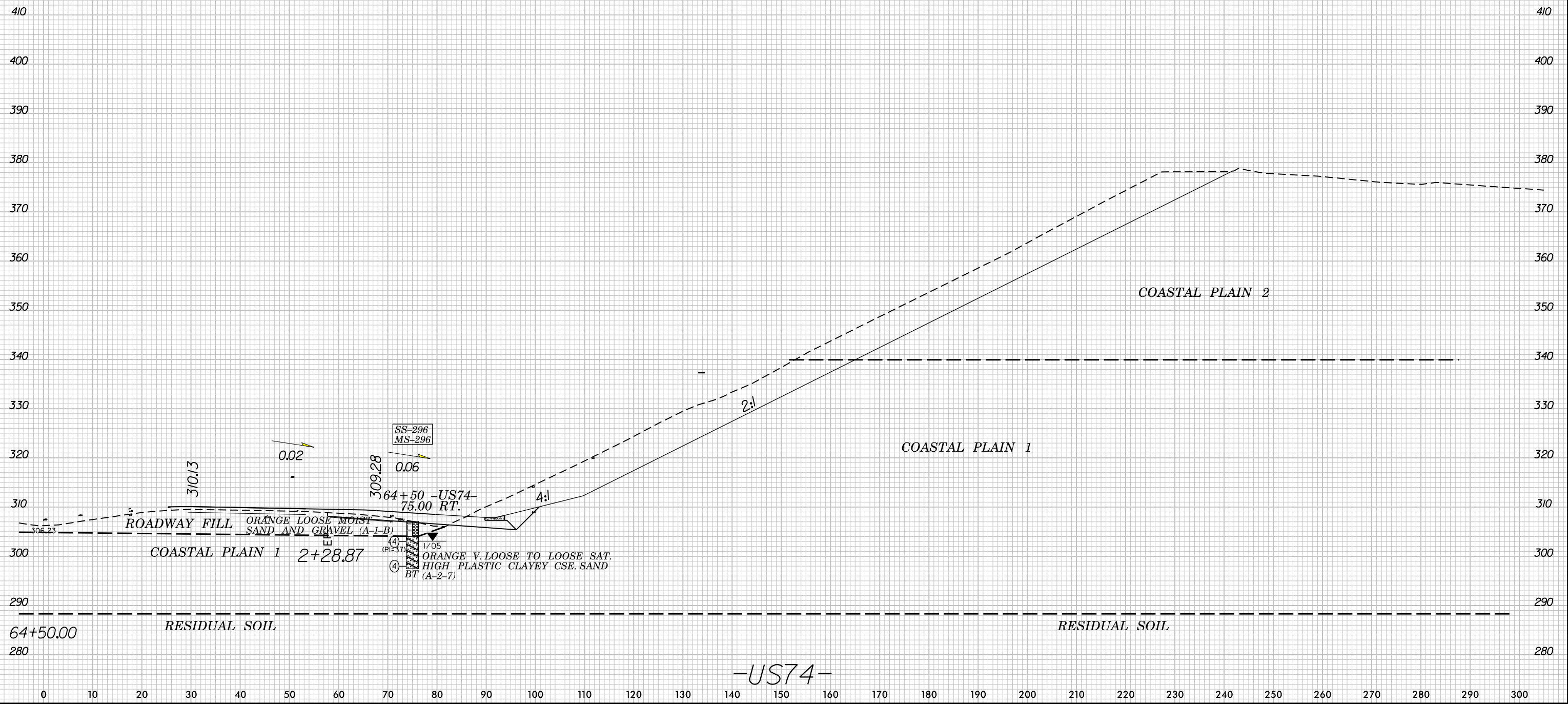
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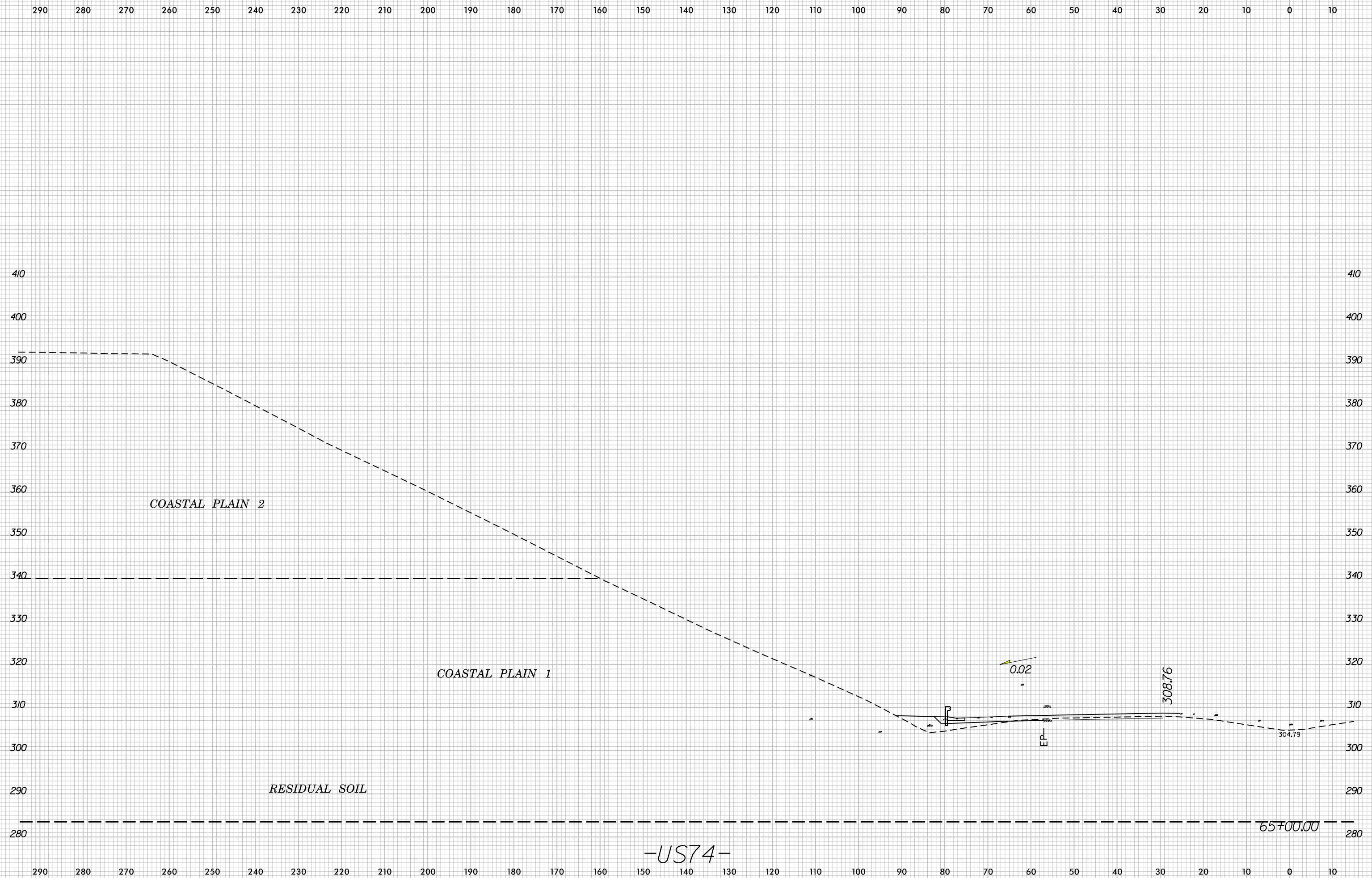
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-296	65 RT	64+50	3.10-4.60	A-2-7(0)	57	37	85.8	6.3	0.7	7.2	87	27	7	32.5	-



-US74-

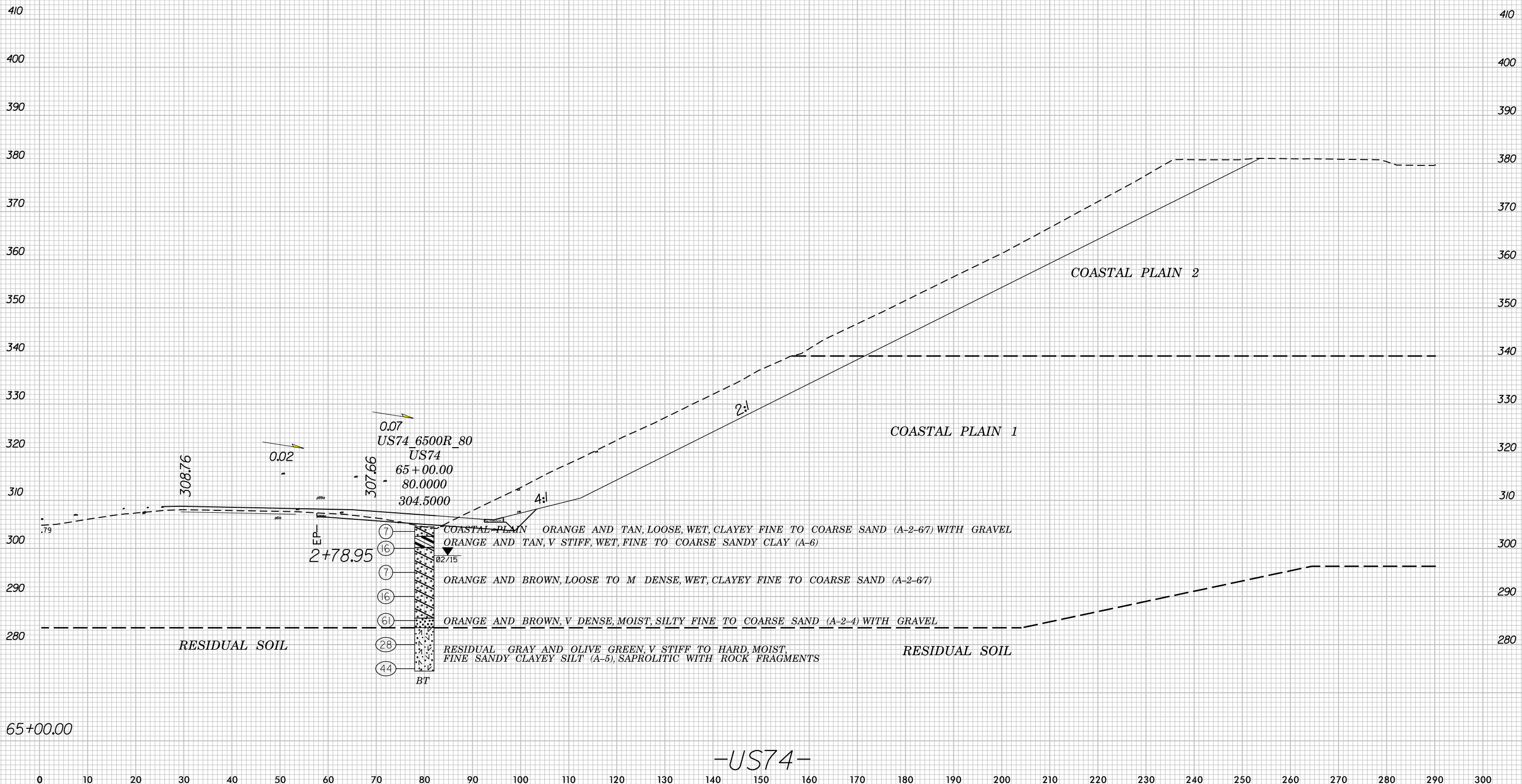
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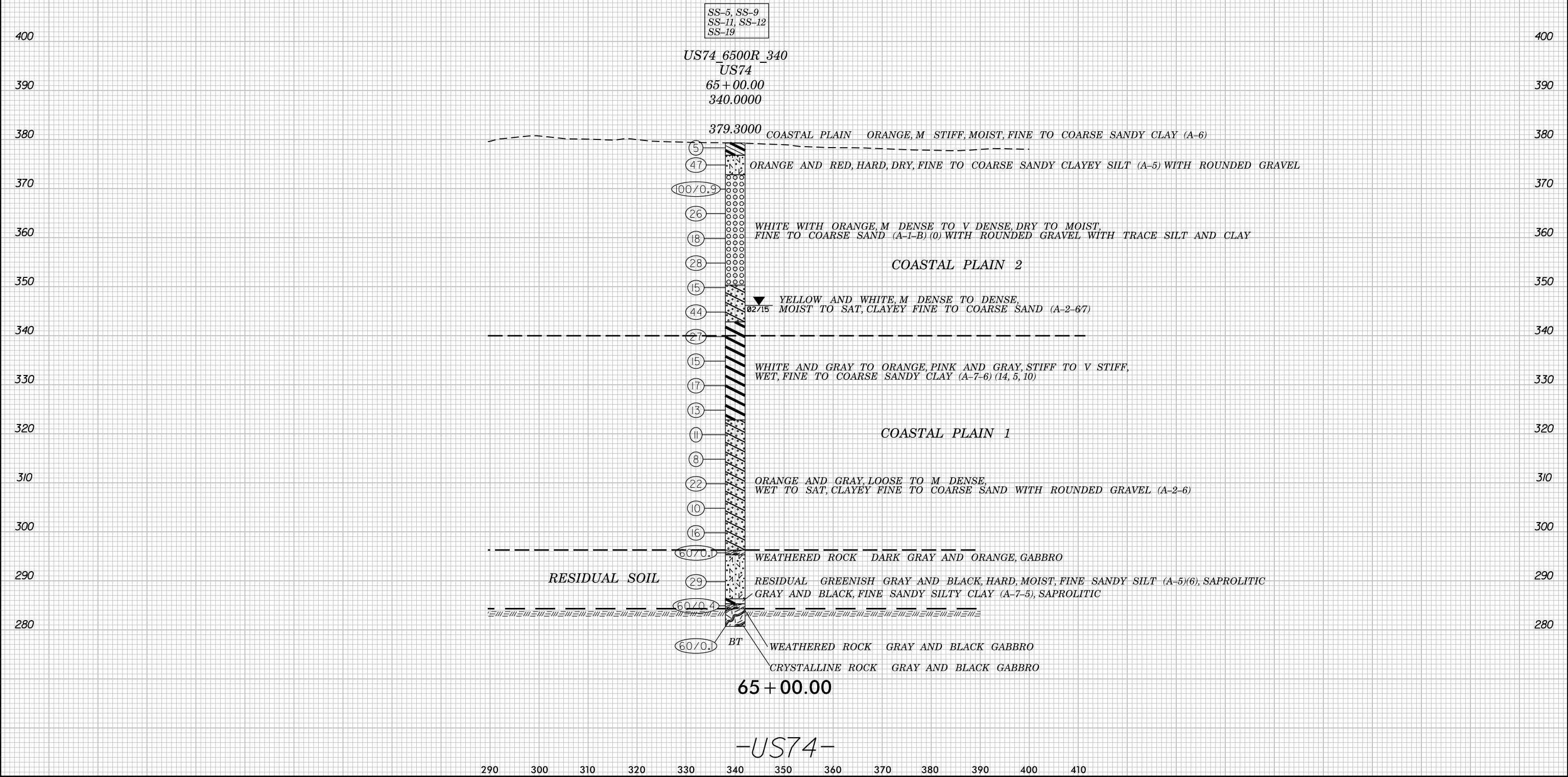
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- 7 COASTAL PLAIN ORANGE AND TAN, LOOSE, WET, CLAYEY FINE TO COARSE SAND (A-2-67) WITH GRAVEL
- 16 ORANGE AND TAN, V STIFF, WET, FINE TO COARSE SANDY CLAY (A-6)
- 7 ORANGE AND BROWN, LOOSE TO M DENSE, WET, CLAYEY FINE TO COARSE SAND (A-2-67)
- 16 ORANGE AND BROWN, V DENSE, MOIST, SILTY FINE TO COARSE SAND (A-2-4) WITH GRAVEL
- 6 RESIDUAL SOIL
- 28 RESIDUAL GRAY AND OLIVE GREEN, V STIFF TO HARD, MOIST, FINE SANDY CLAYEY SILT (A-5), SAPROLITIC WITH ROCK FRAGMENTS
- 44 RESIDUAL SOIL

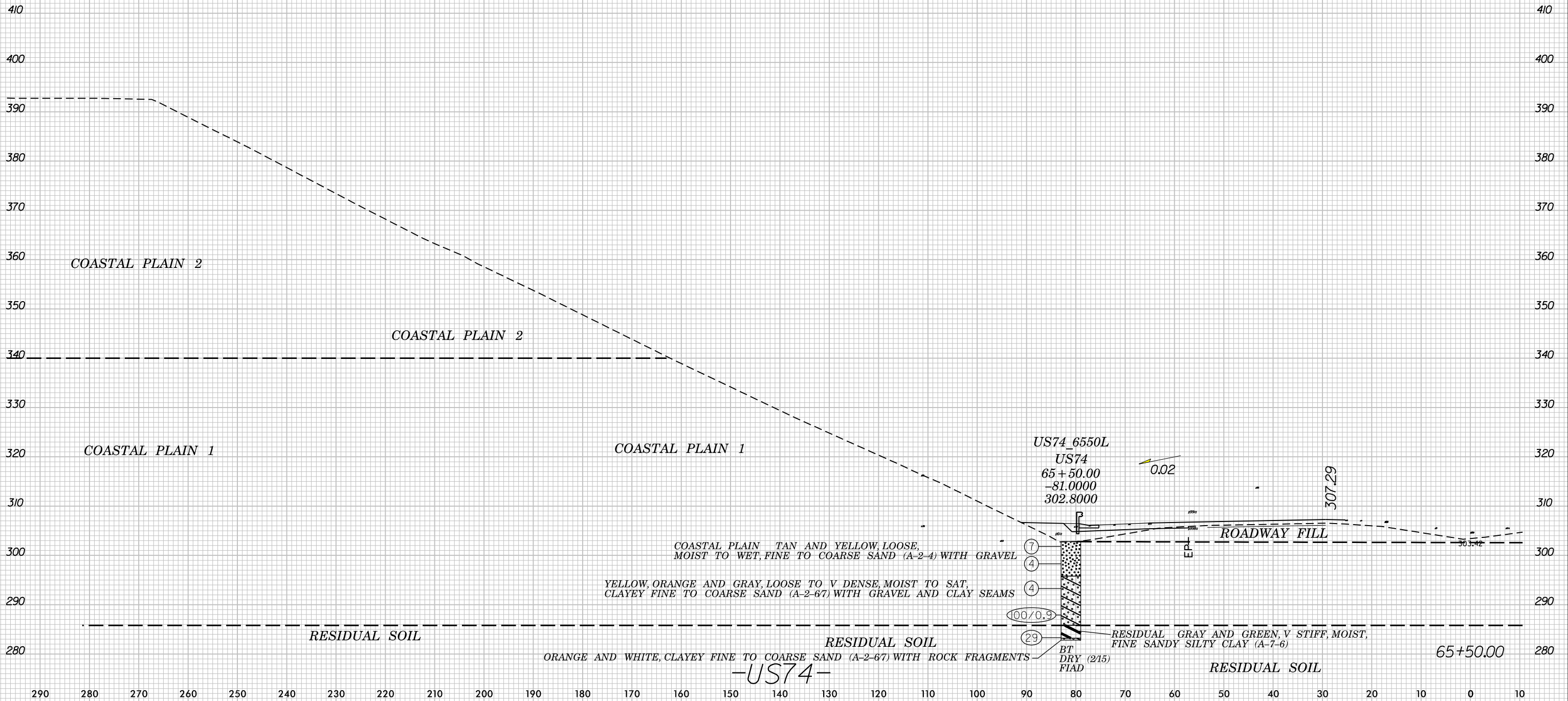
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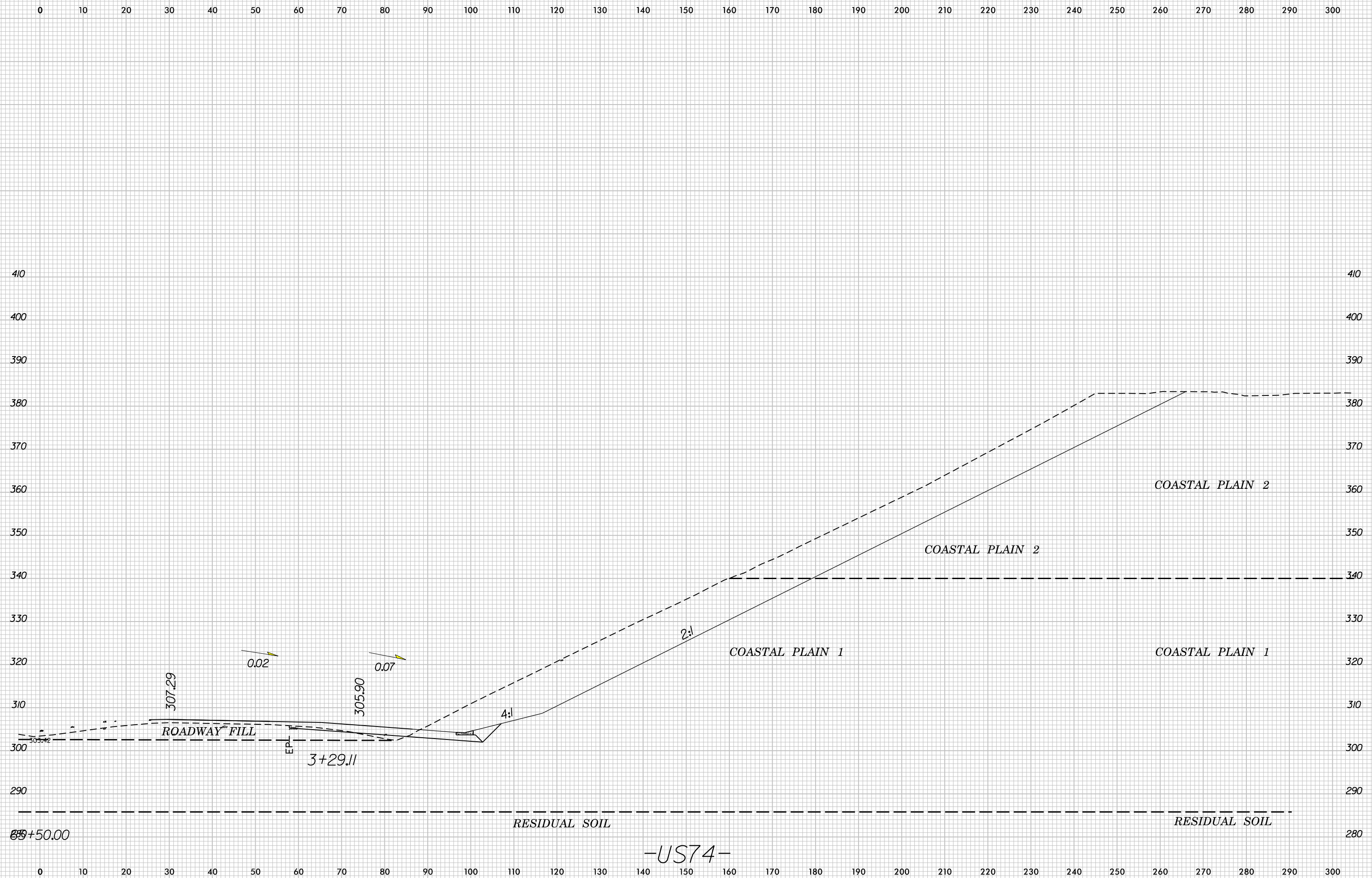
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SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-5	340' RT	65+00	18.5-20.0	A-1-b (0)	26	NP	61.5	23.5	6.5	8.5	61.4	33.2	11.2	3.9	NT
SS-9	340' RT	65+00	38.5-40.0	A-7-6 (14)	57	32	20.1	31.2	6.7	42	100	86.7	54.6	17.3	NT
SS-11	340' RT	65+00	48.5-50.0	A-7-6 (5)	47	24	42	18.8	4.7	34.5	98.2	71.9	40.9	15.5	NT
SS-12	340' RT	65+00	53.5-55.0	A-7-6 (10)	41	17	4.1	37.3	12.1	46.5	100	99.3	63.5	27.9	NT
SS-19	340' RT	65+00	88.5-90.0	A-5 (6)	54	9	17.2	32.1	37.1	13.6	100	92.8	57.3	37.6	NT



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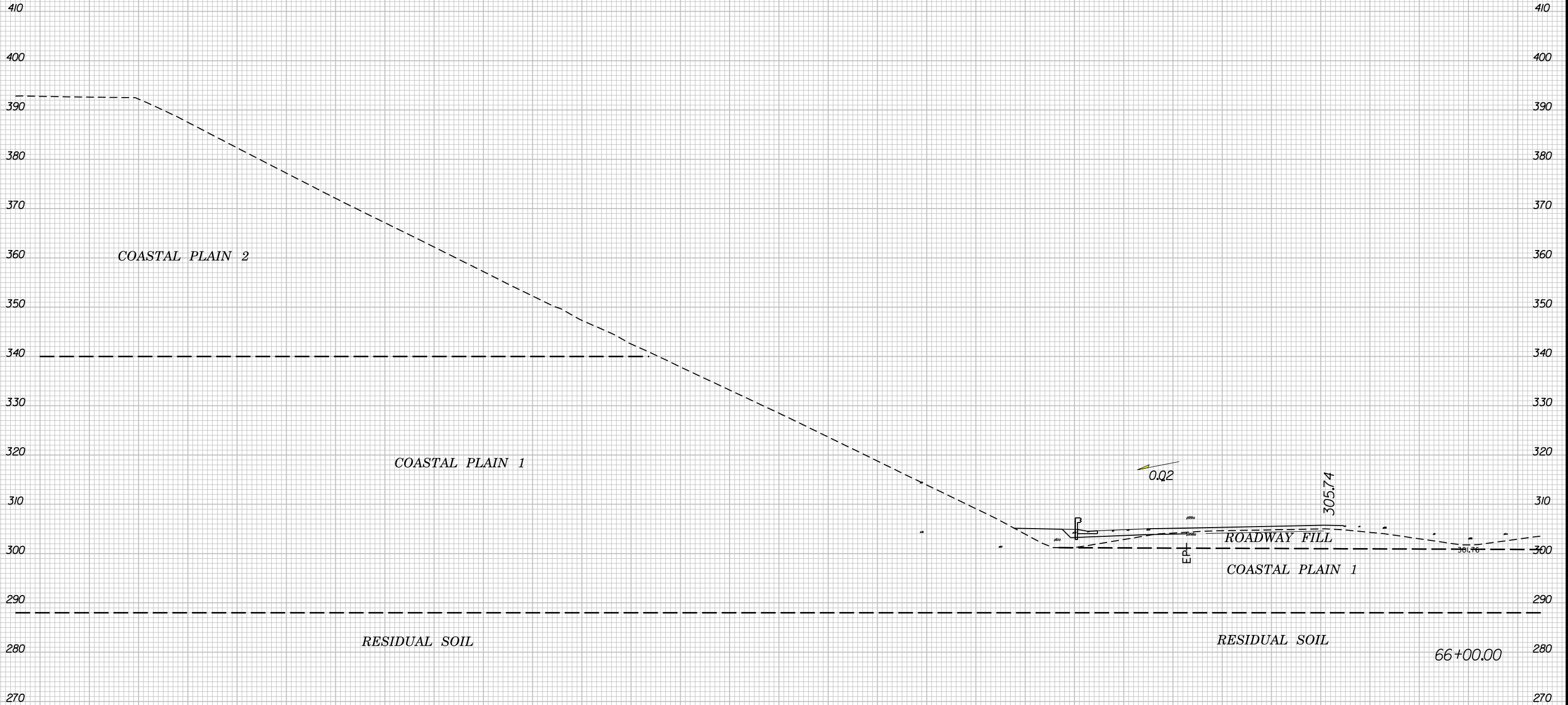




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R-3421A

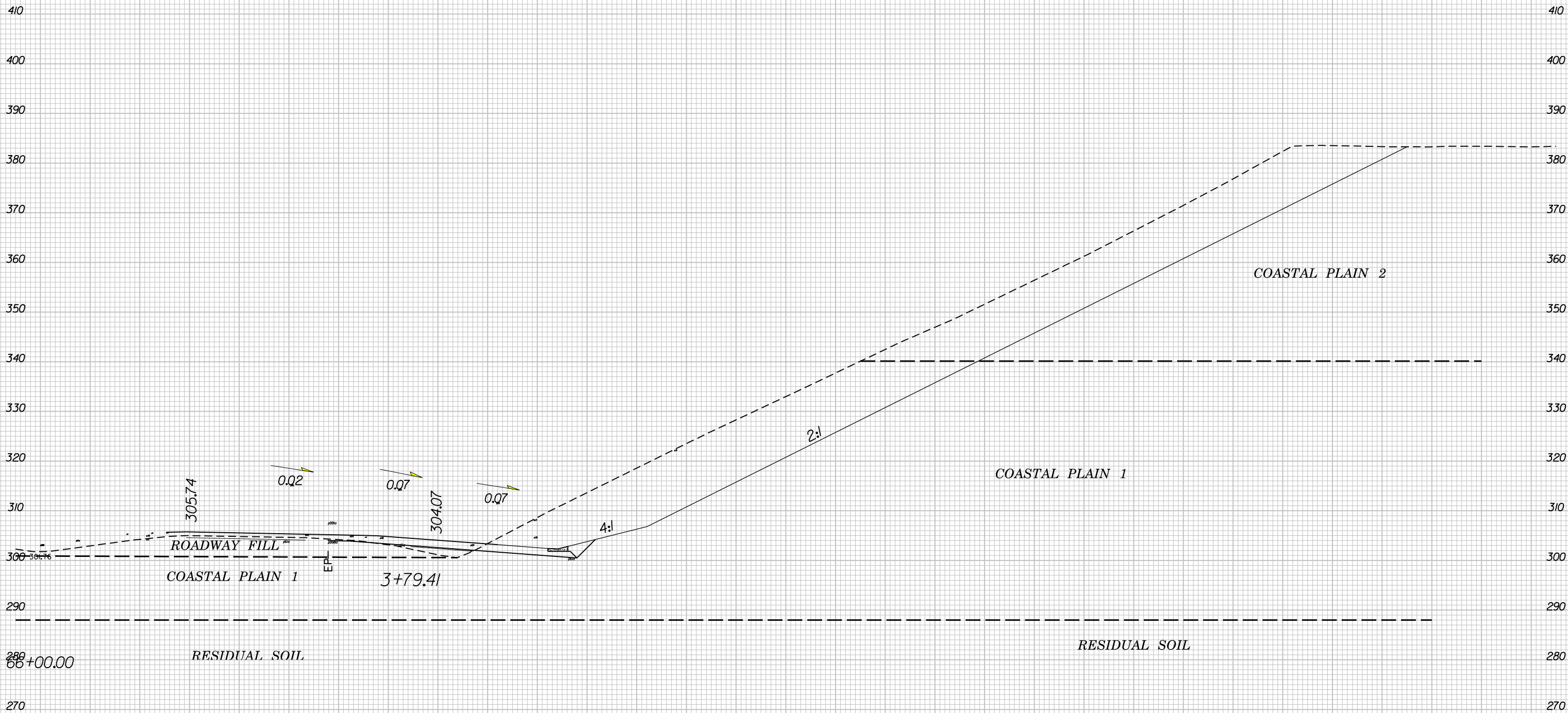
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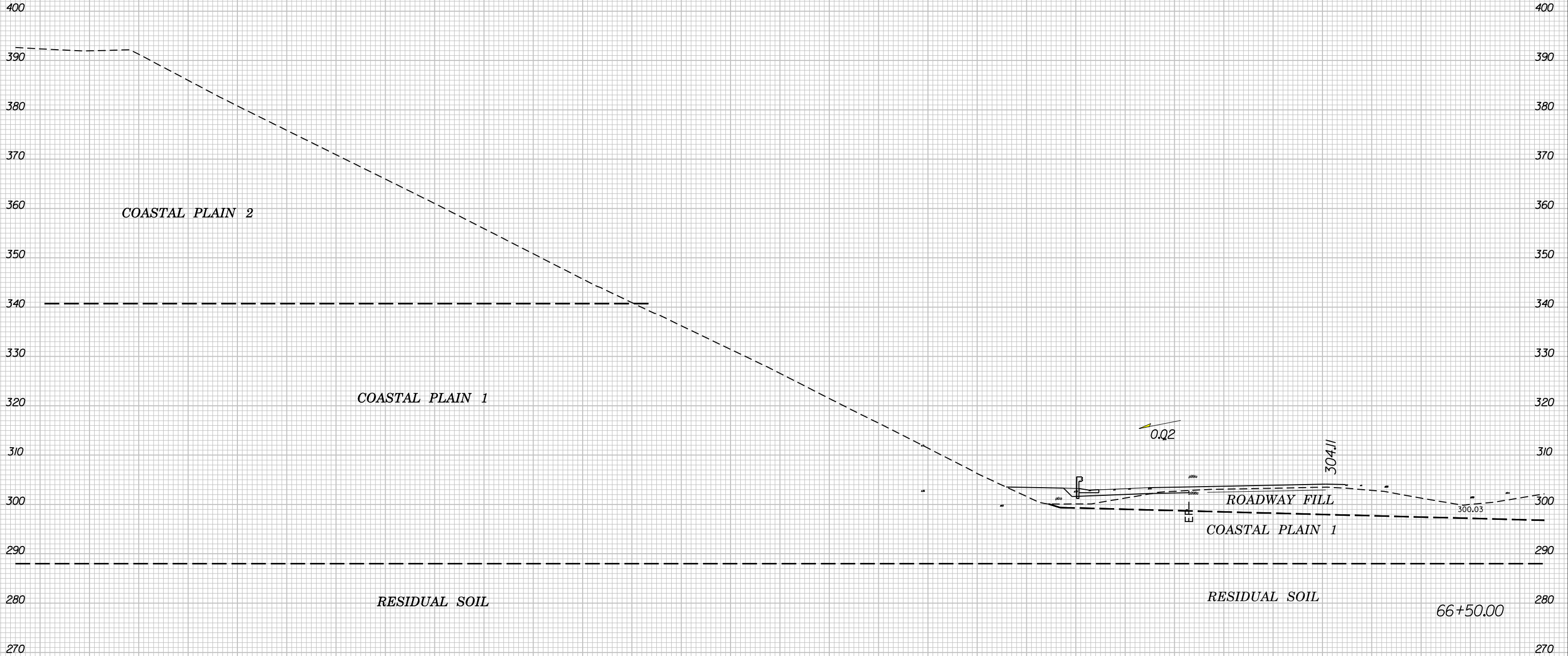
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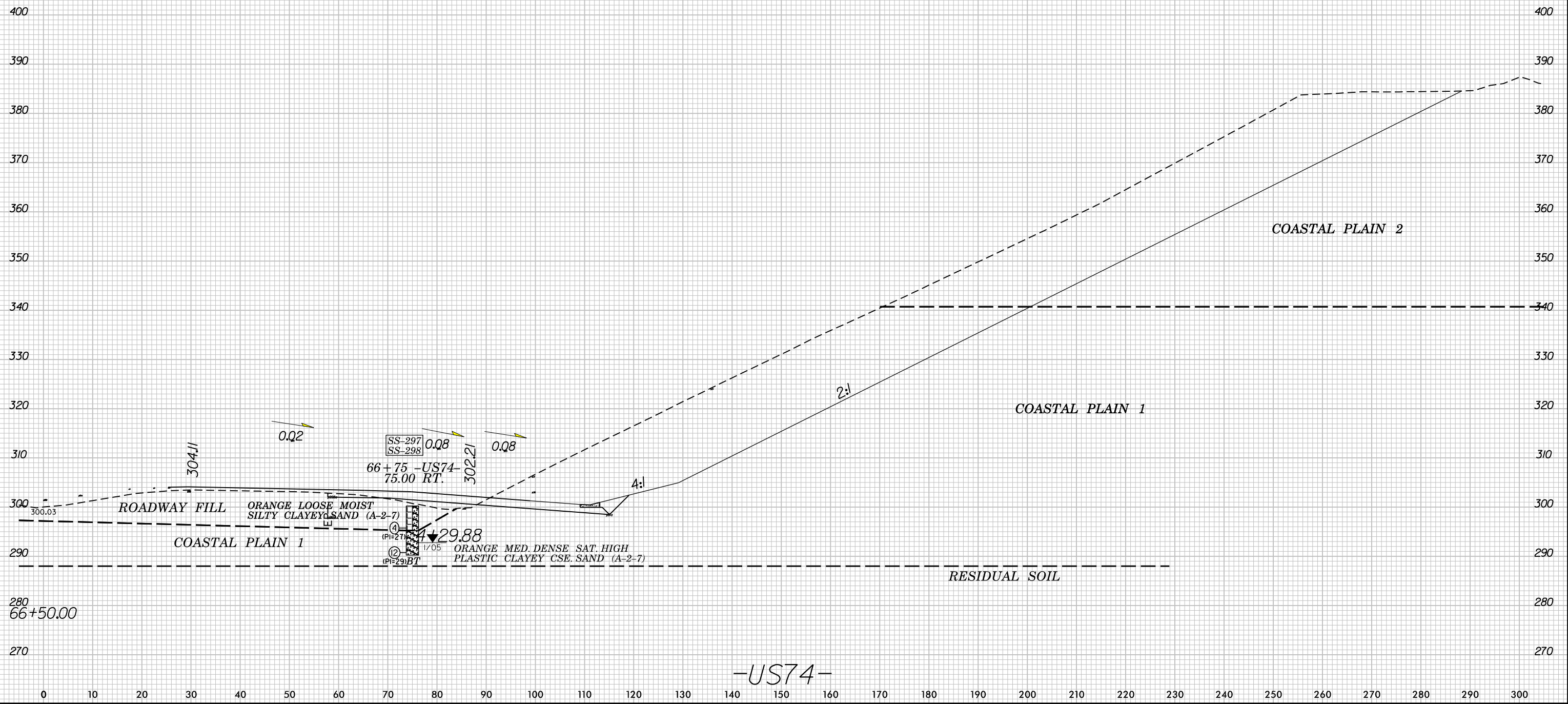
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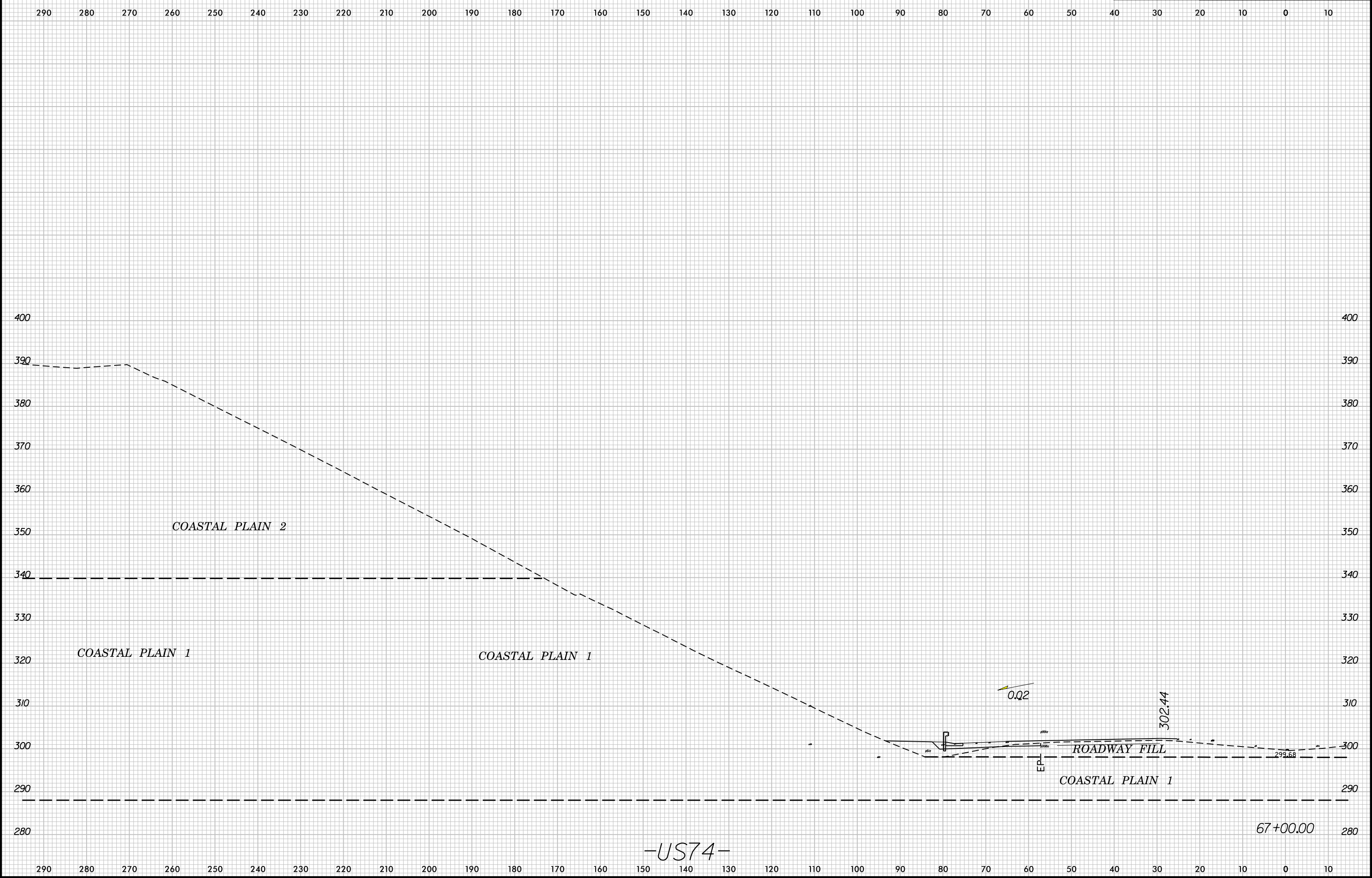


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
			US74												
SS-297	75 RT	66+75	3.50-5.00	A-2-7(0)	47	27	86.1	5.0	0.6	8.2	99	25	9	-	-
SS-298	75 RT	66+75	8.50-10.00	A-2-7(0)	58	29	78.7	6.5	2.6	12.2	93	30	15	-	-





-US74-

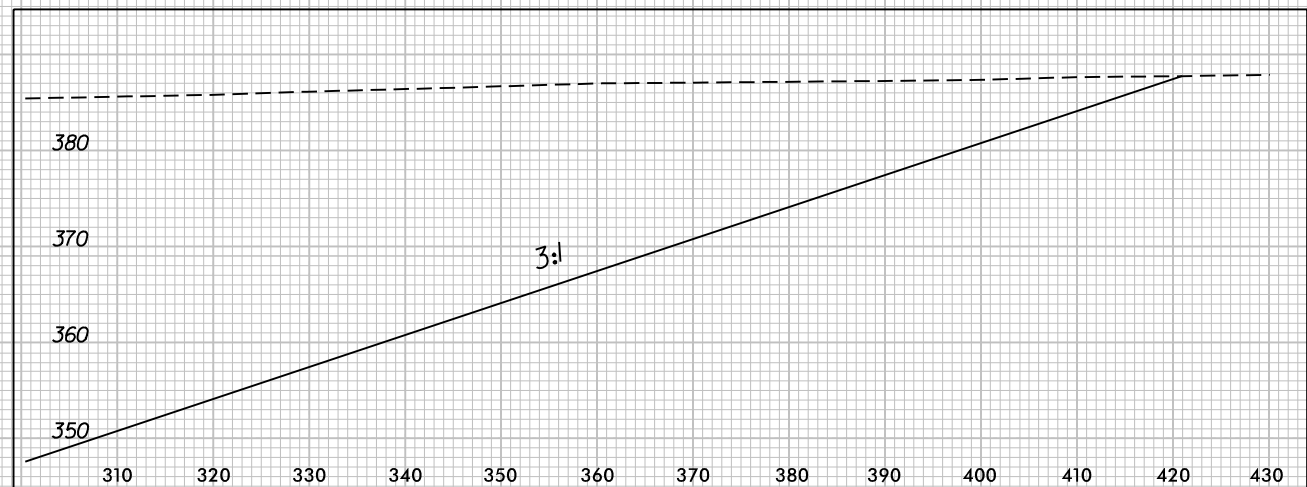
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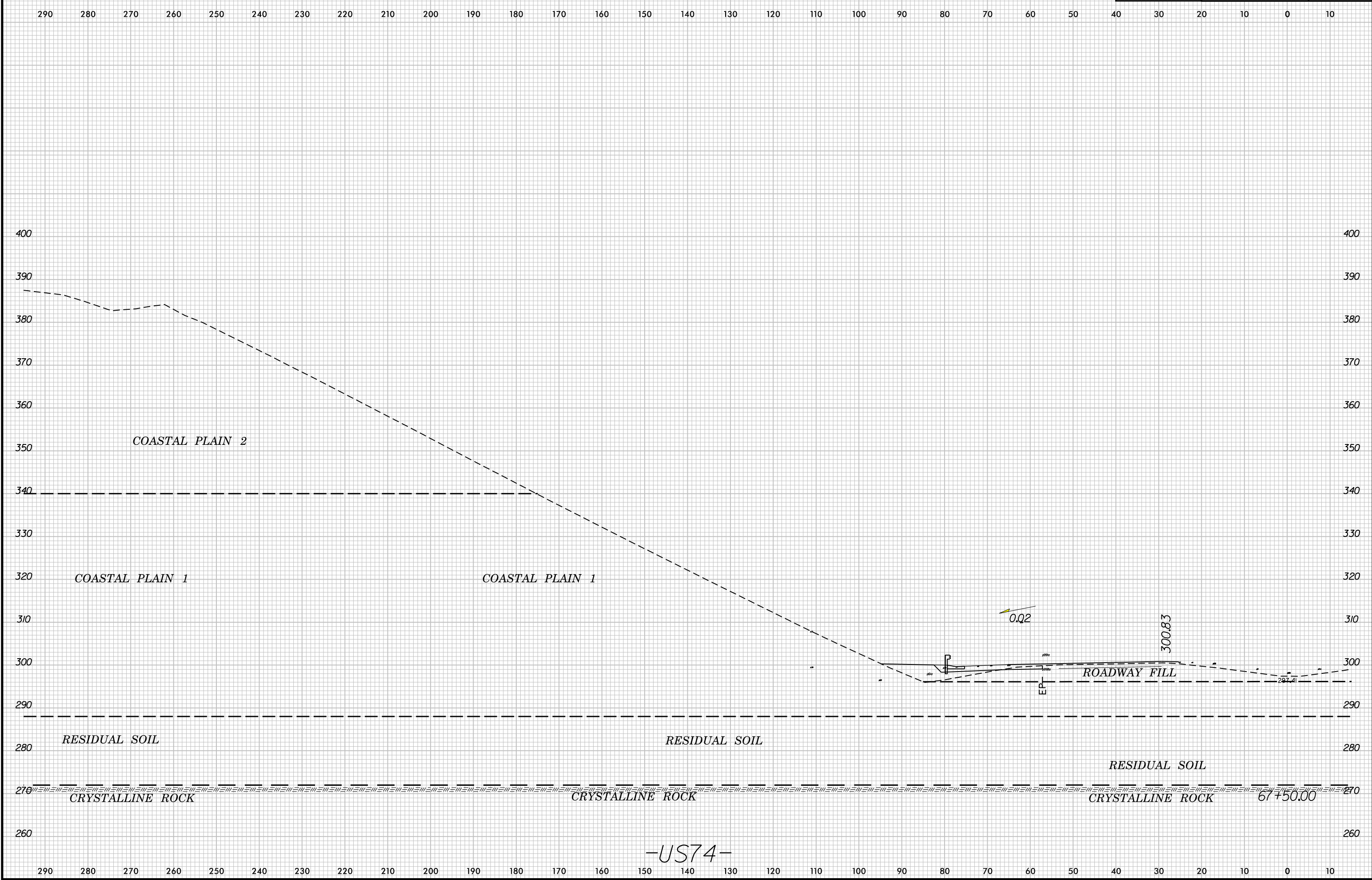
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R-3421A

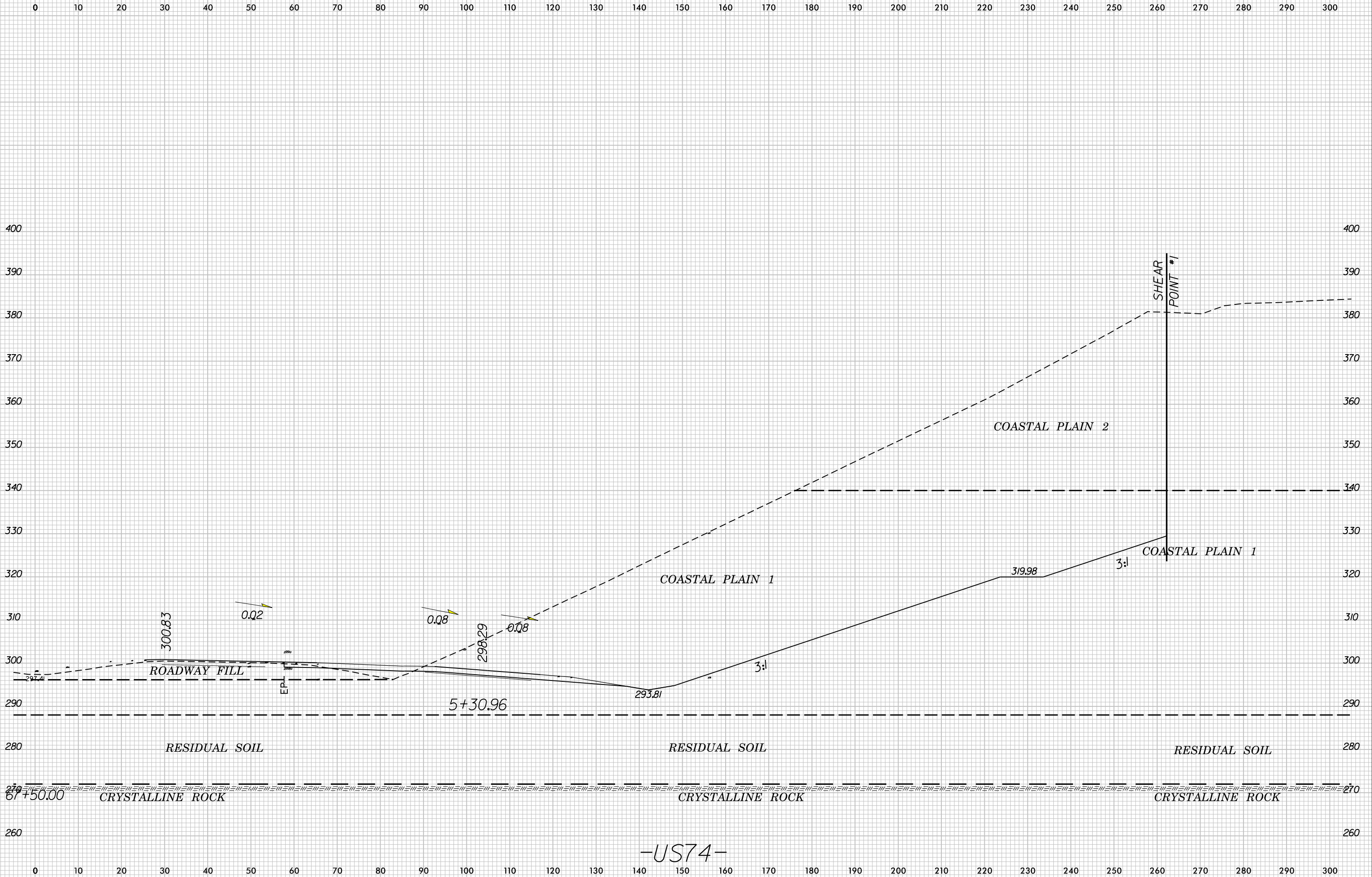
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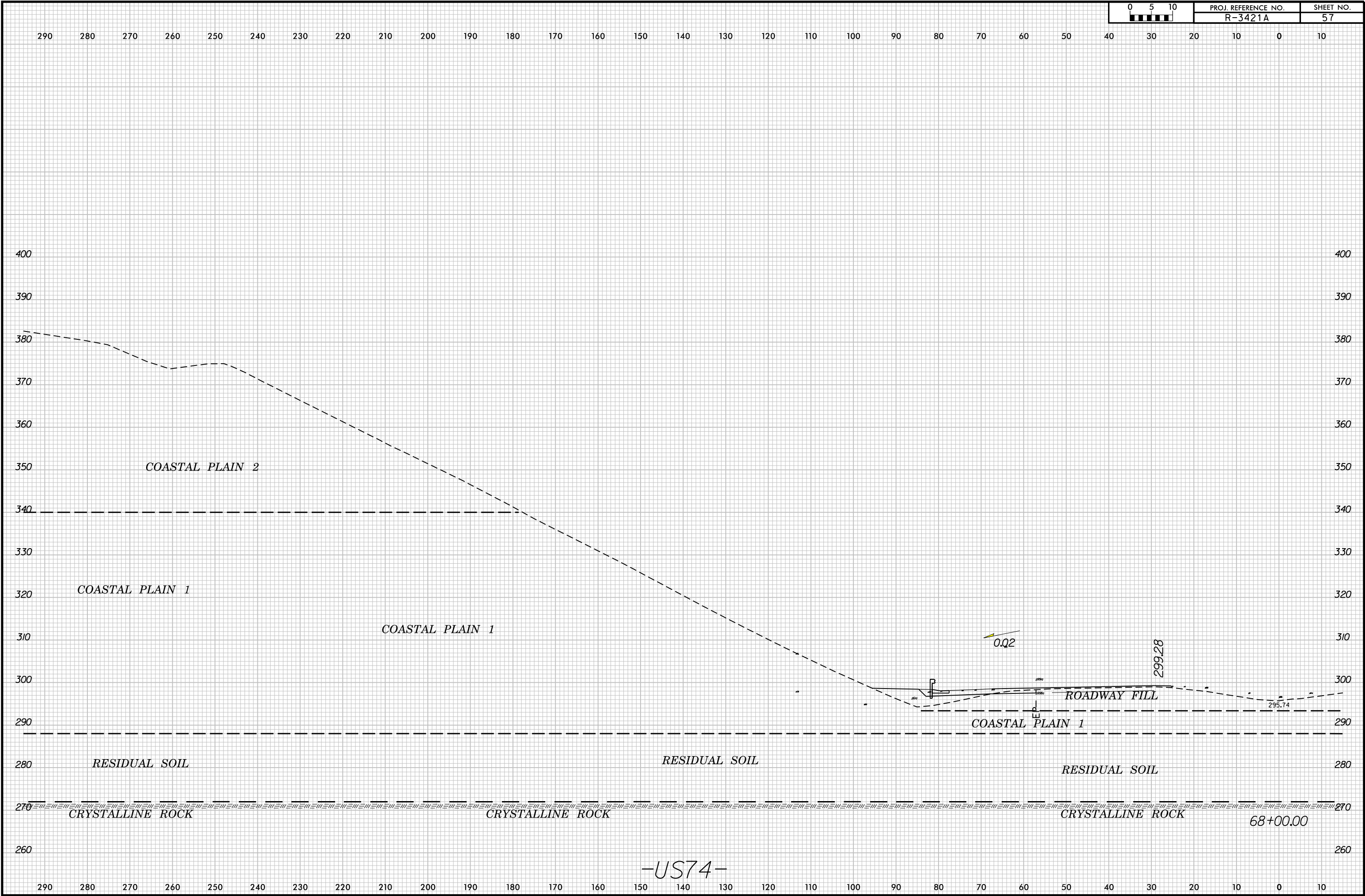
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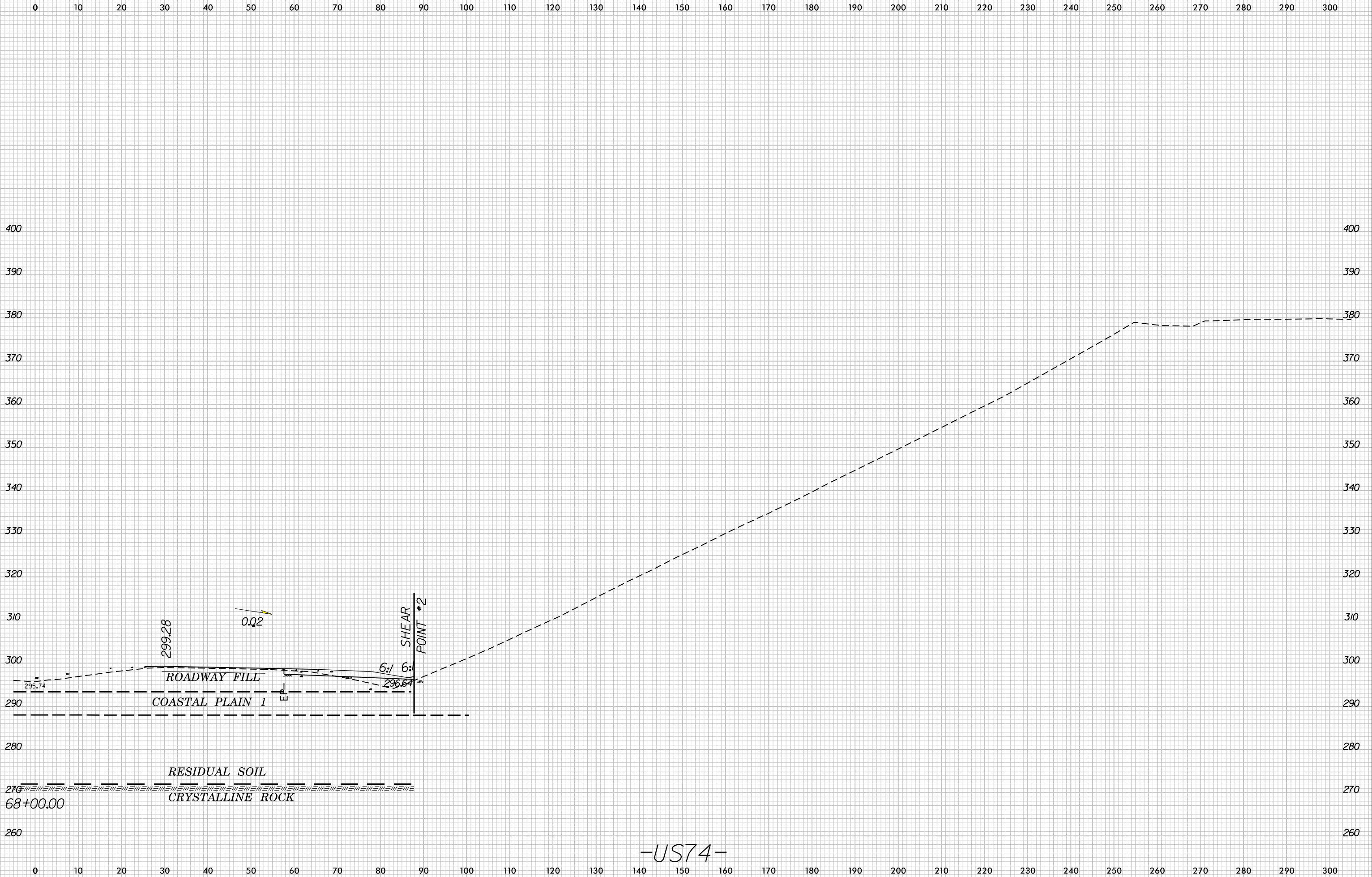
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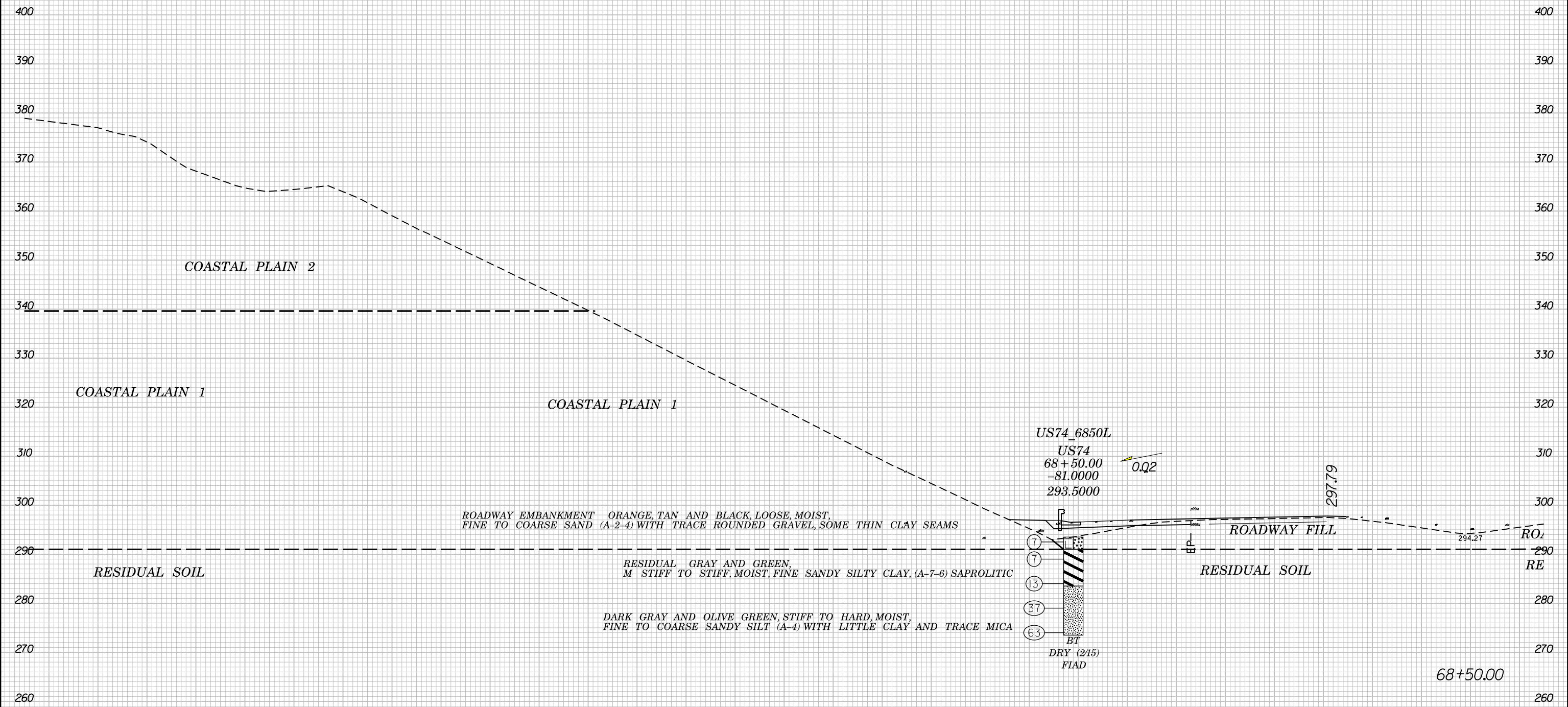


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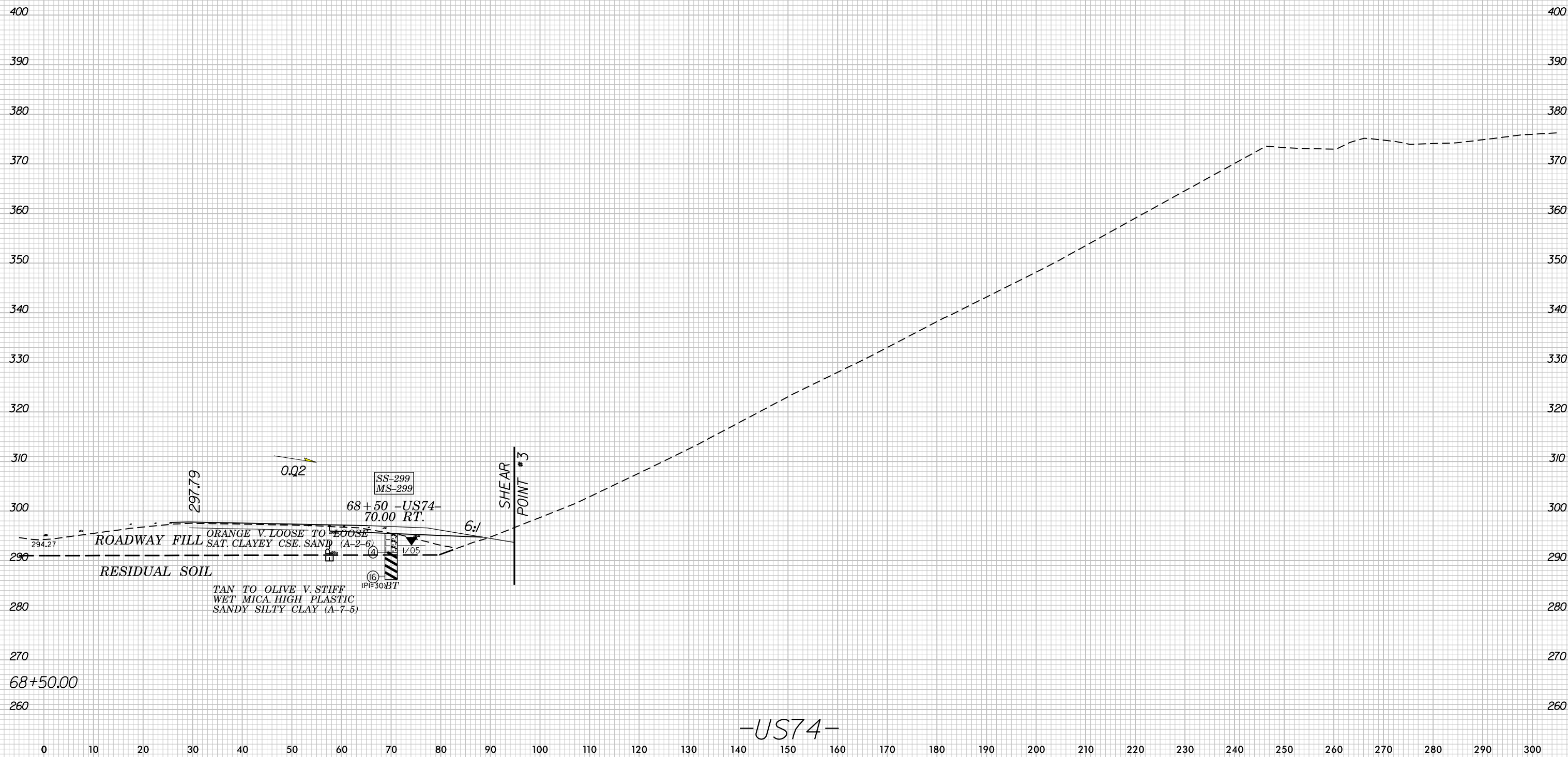
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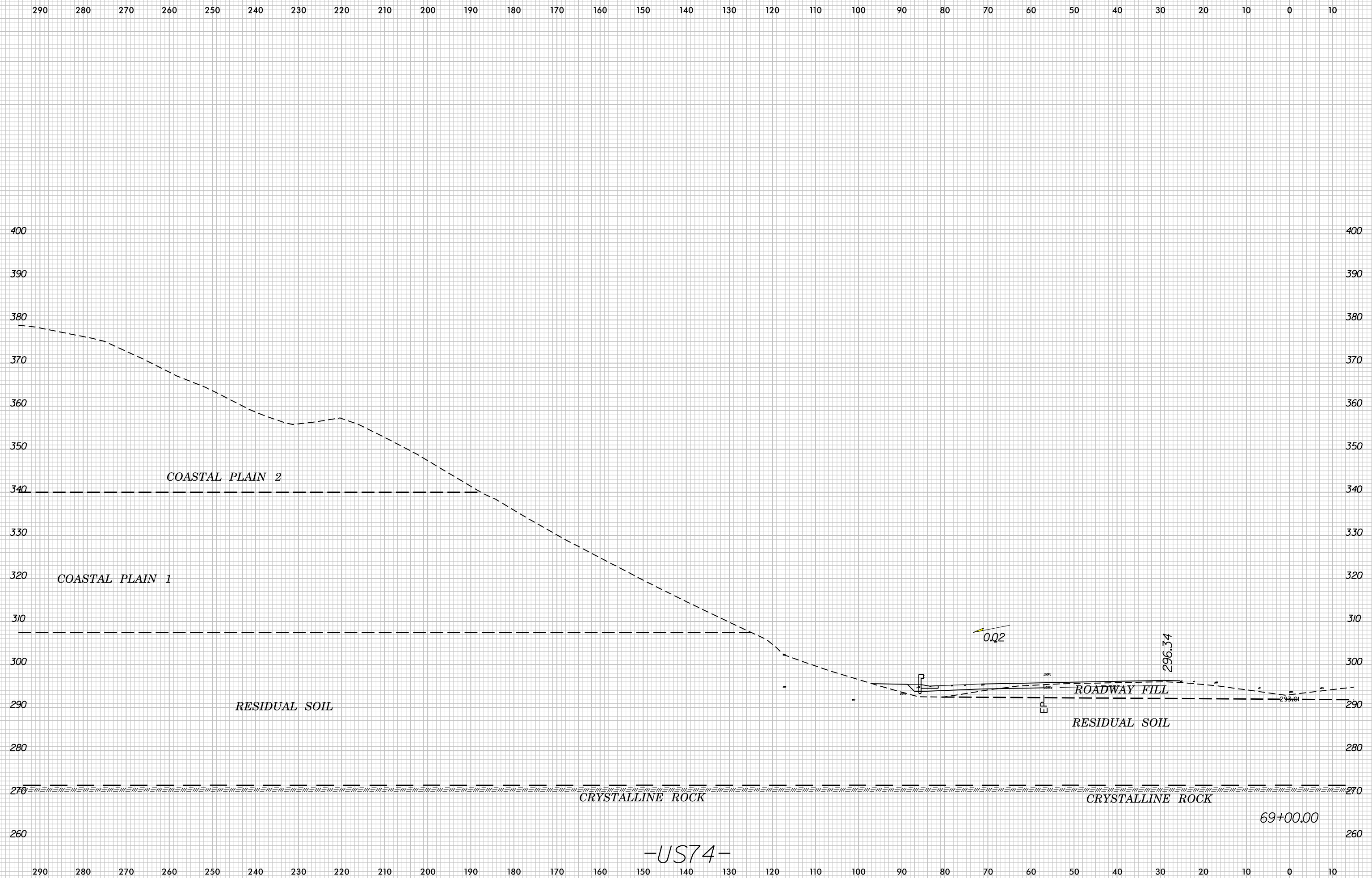
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SOIL TEST RESULTS

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							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-299	70 RT	68+50	7.80-9.30	A-7-5(27)	70	30	12.3	15.4	31.1	41.2	100	93	76	50.9	-



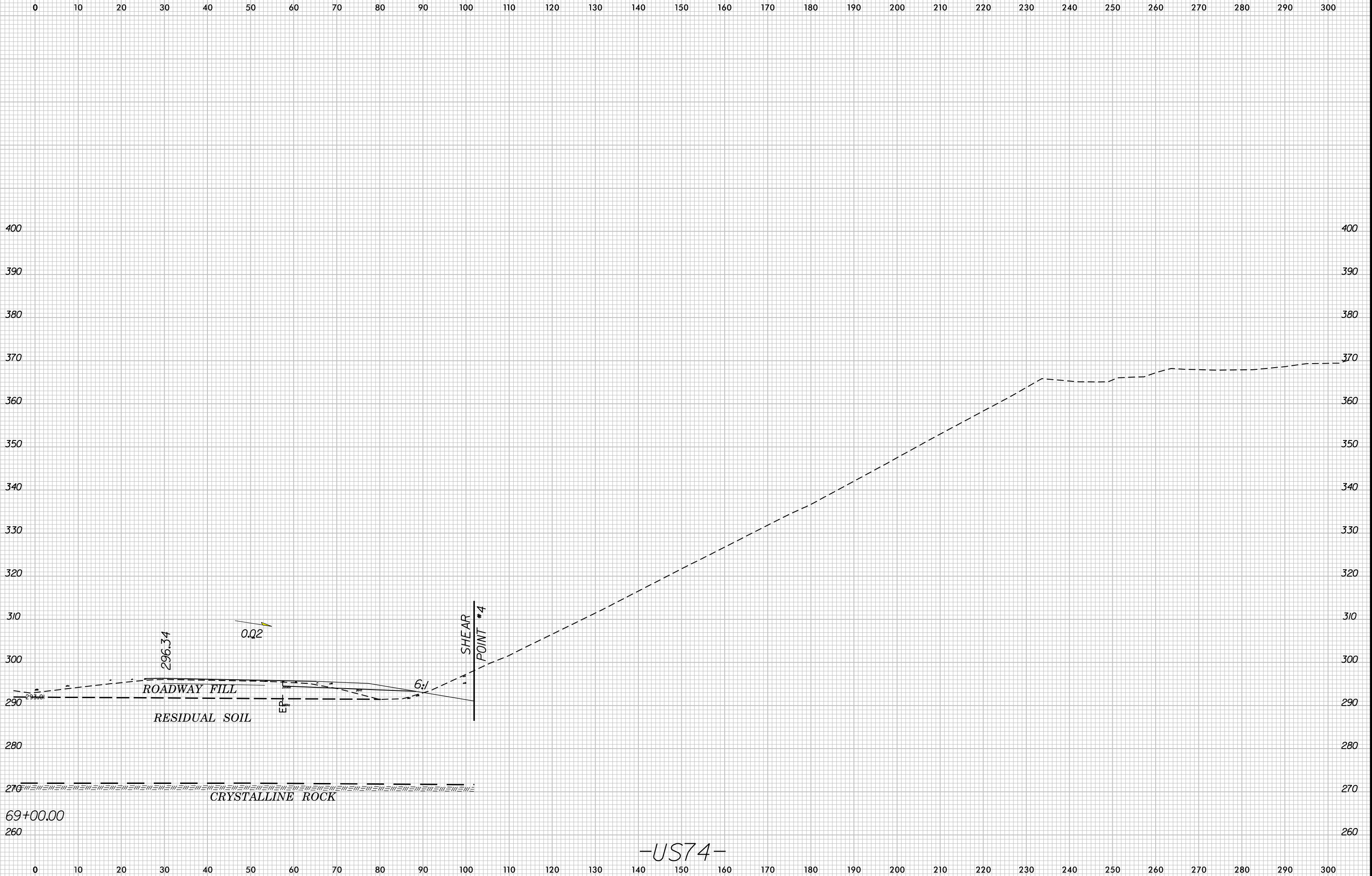
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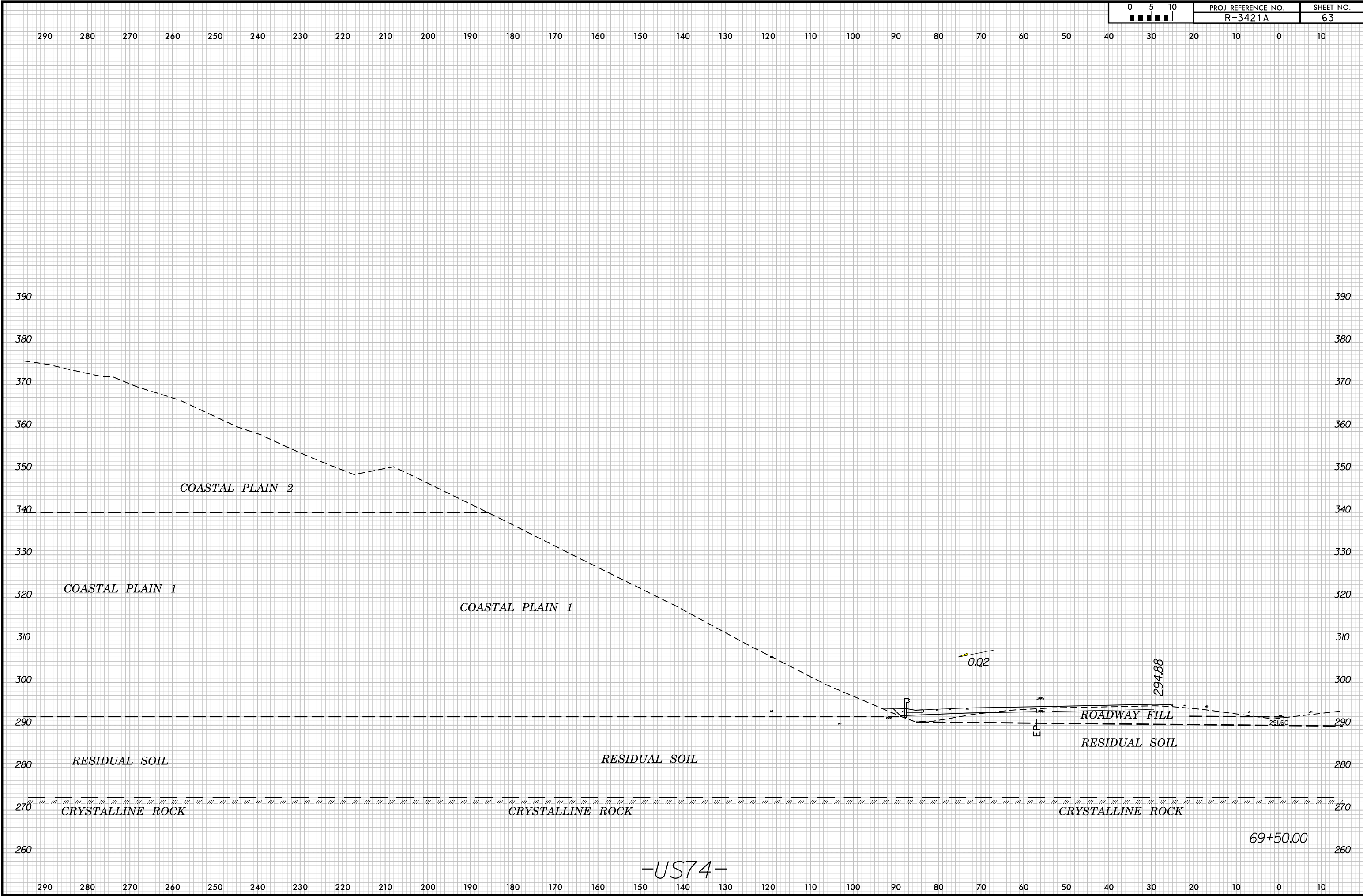
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8/23/99

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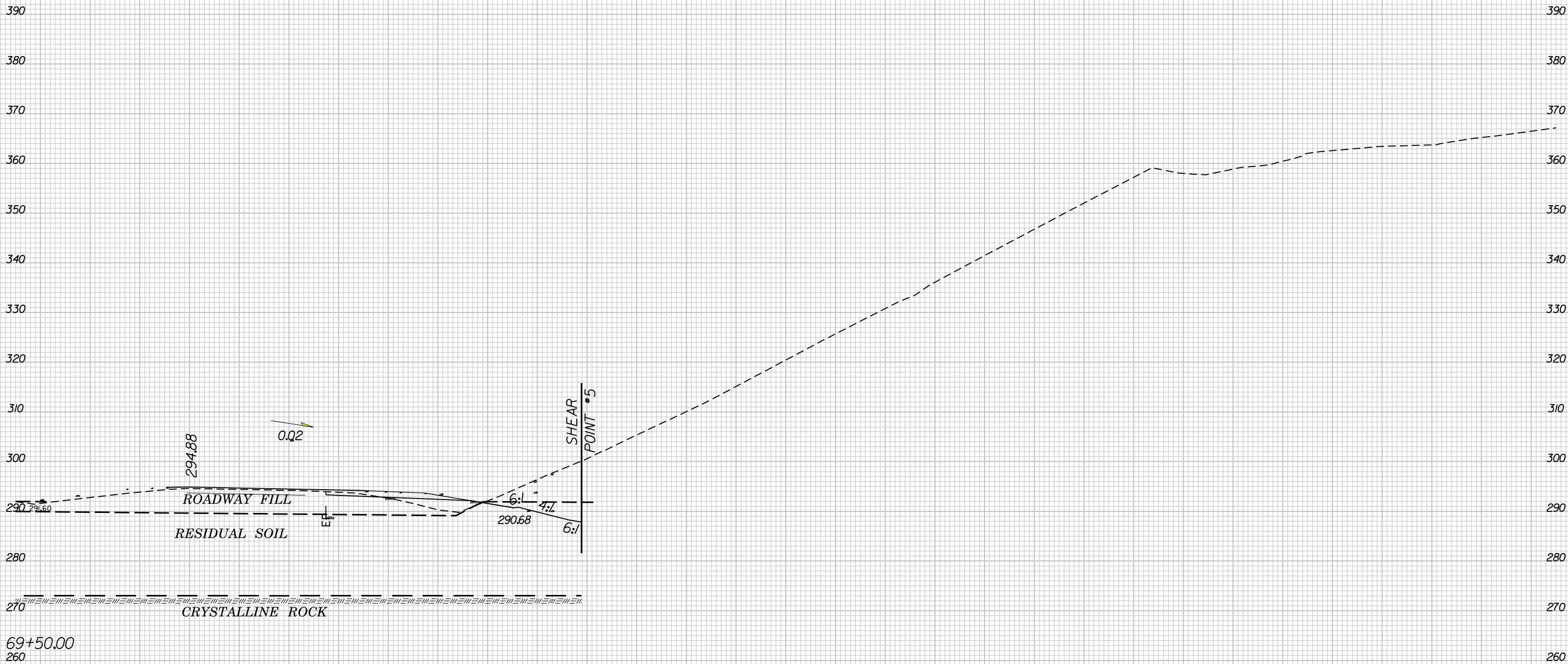


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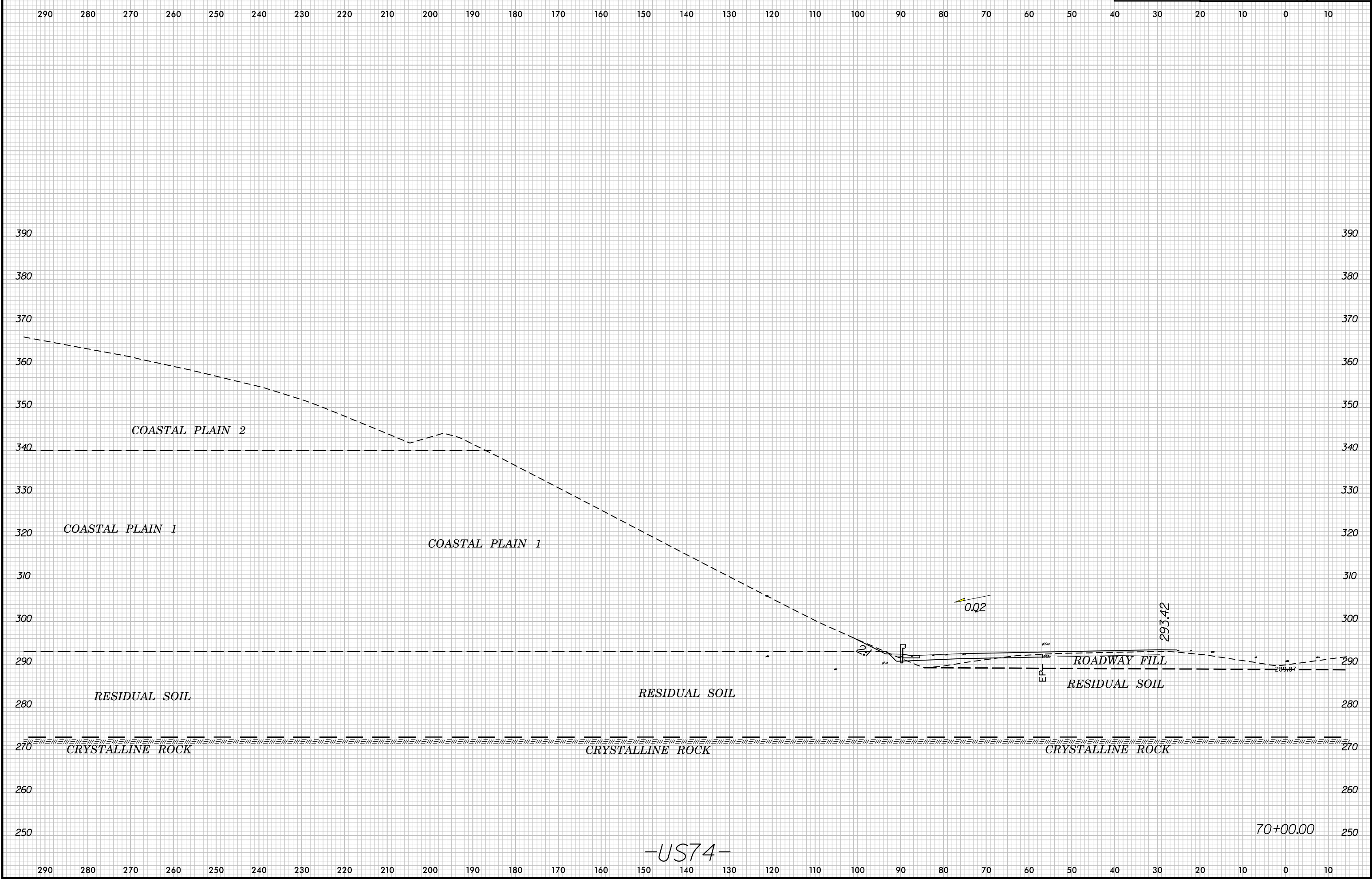
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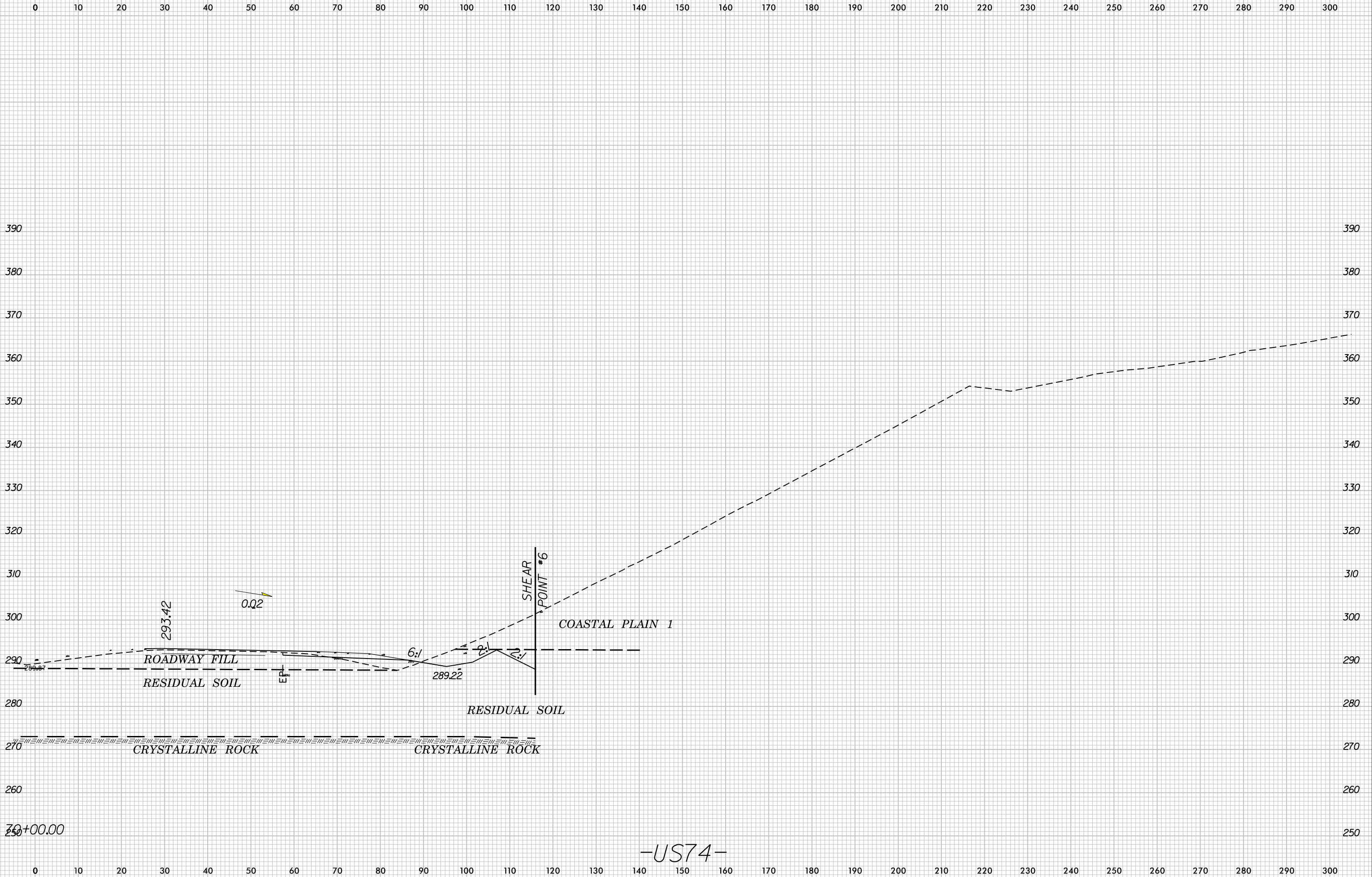


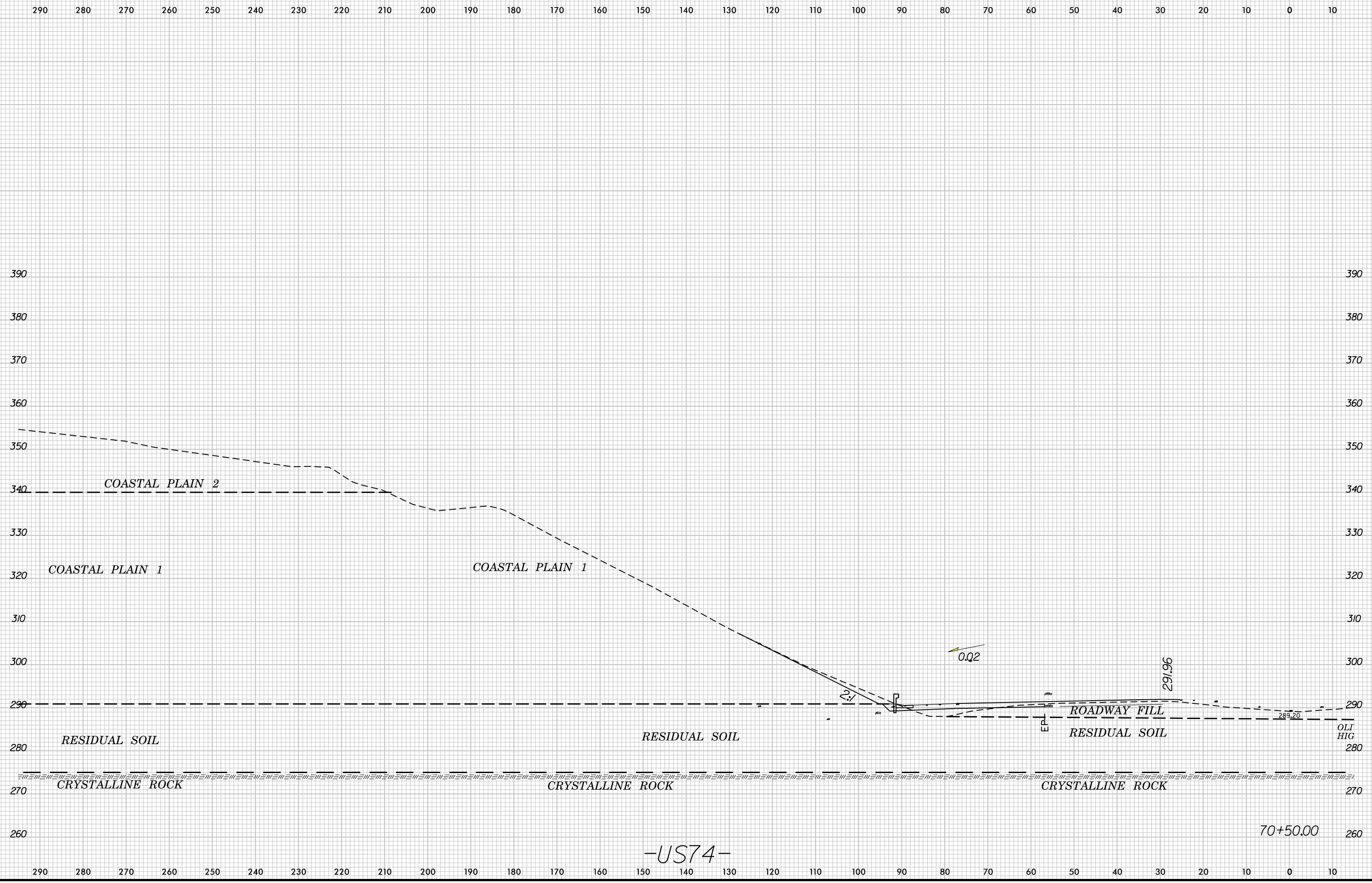
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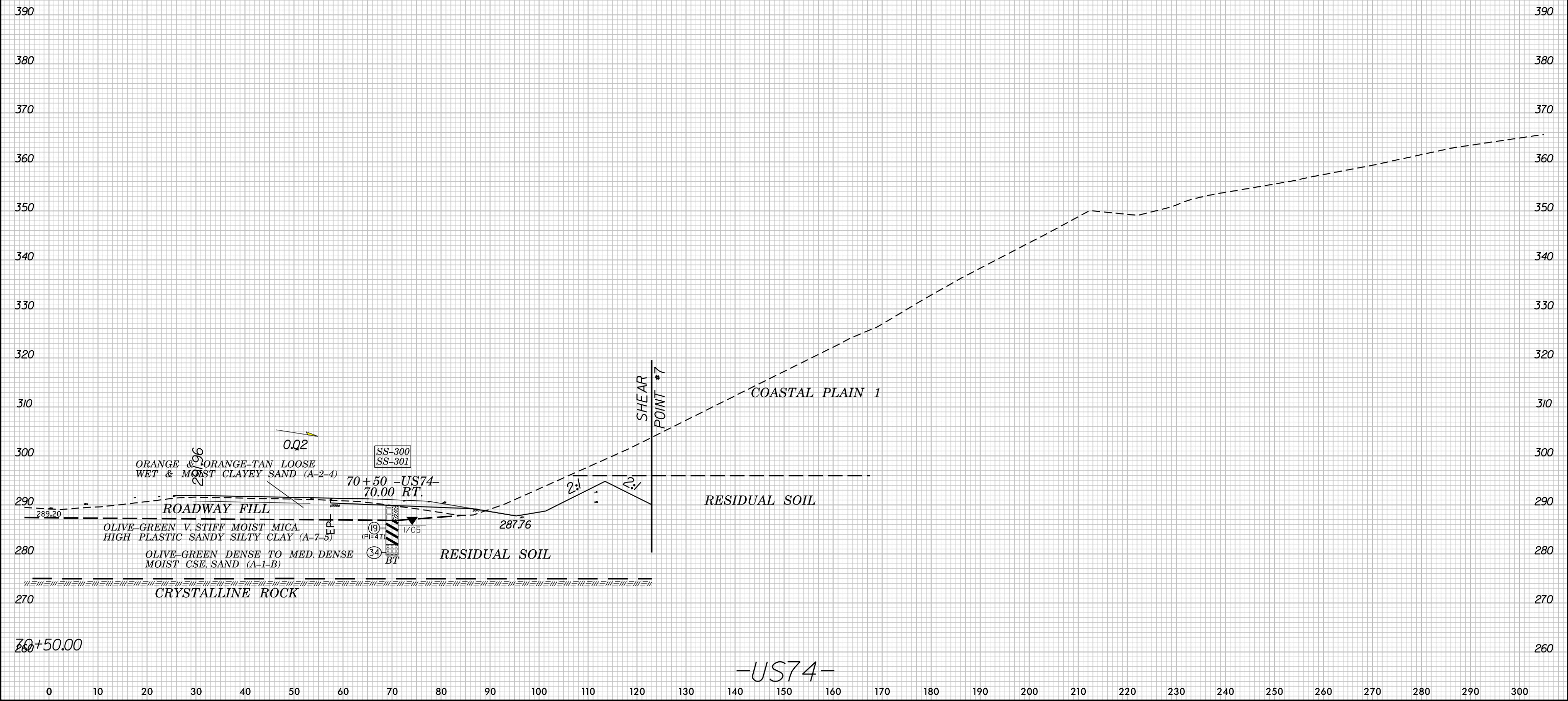


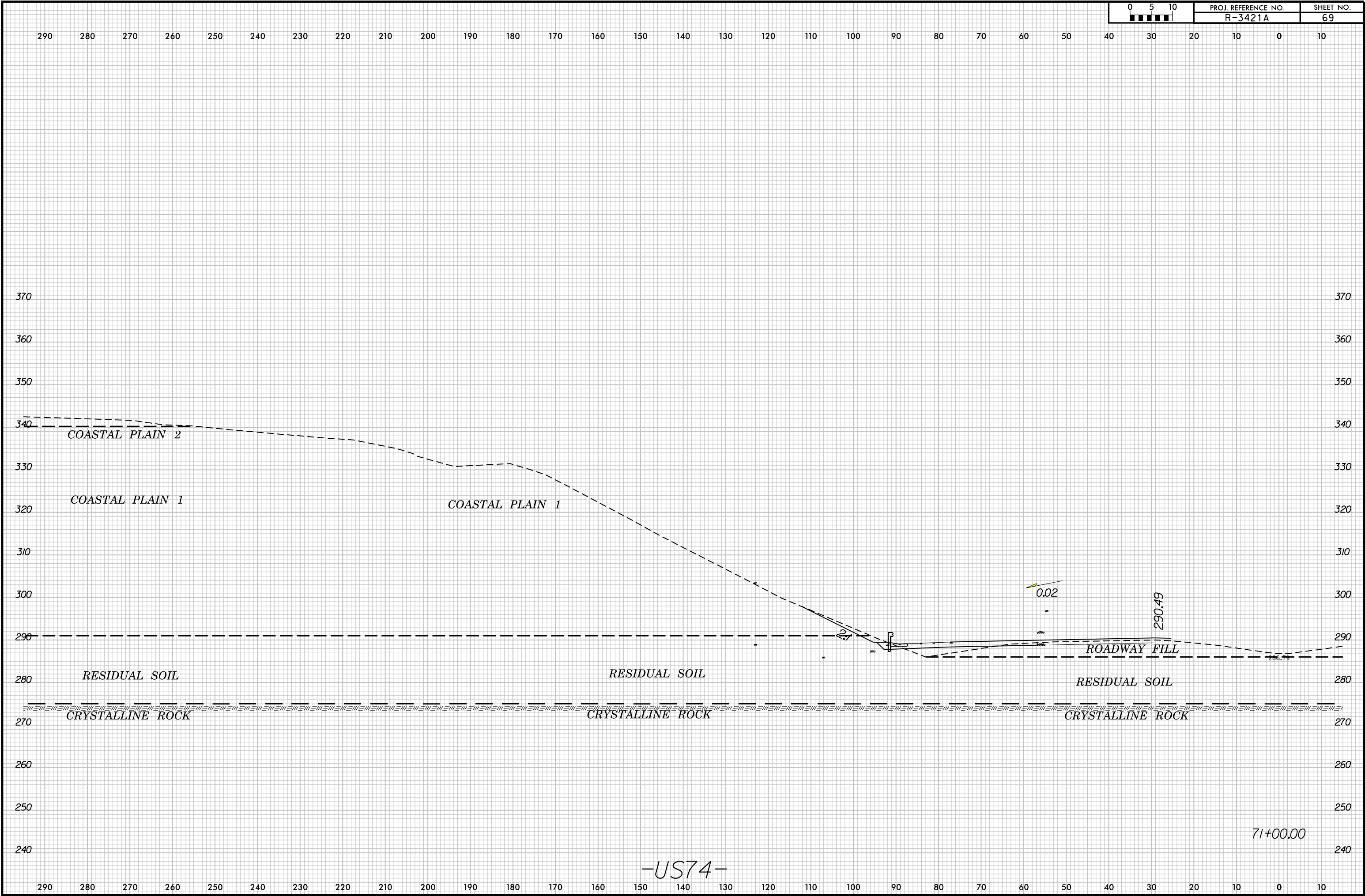
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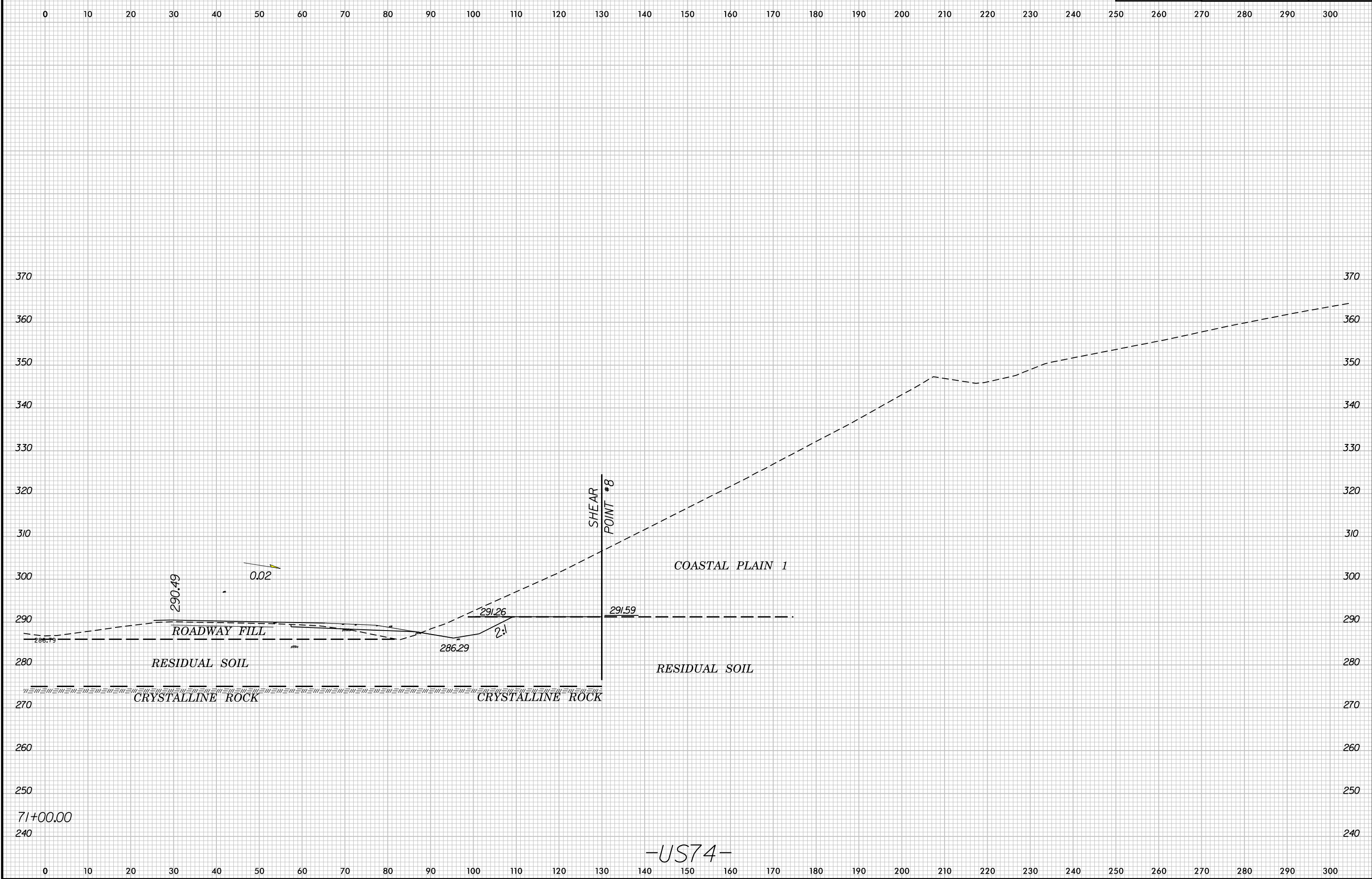
-US74-

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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		
US74															
SS-300	70 RT	70+50	3.60-5.10	A-7-5(51)	87	47	7.9	3.8	15.7	72.6	100	94	89	-	-
SS-301	70 RT	70+50	8.60-10.10	A-1-b(0)	50	NP	61.3	22.2	8.5	8.1	100	49	20	-	-







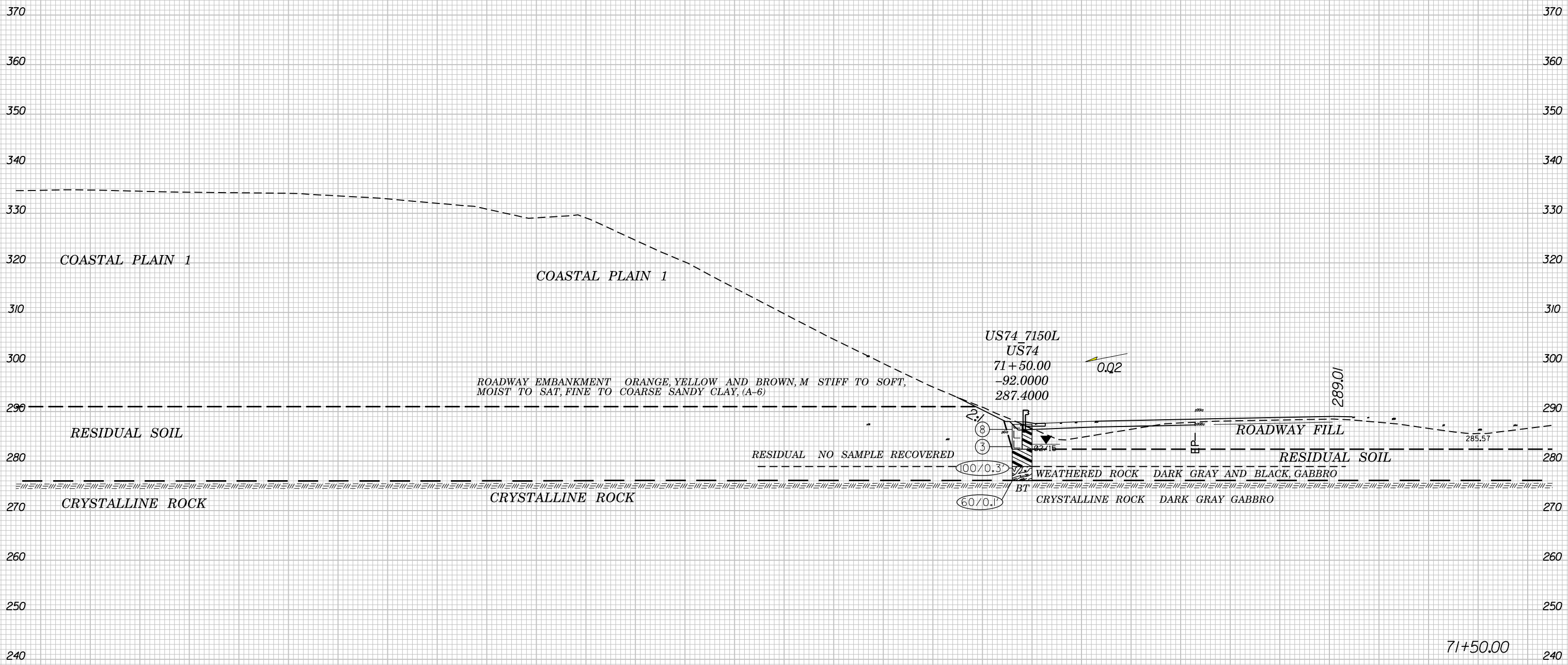
8/23/99



PROJ. REFERENCE NO.
R-3421A

SHEET NO.
71

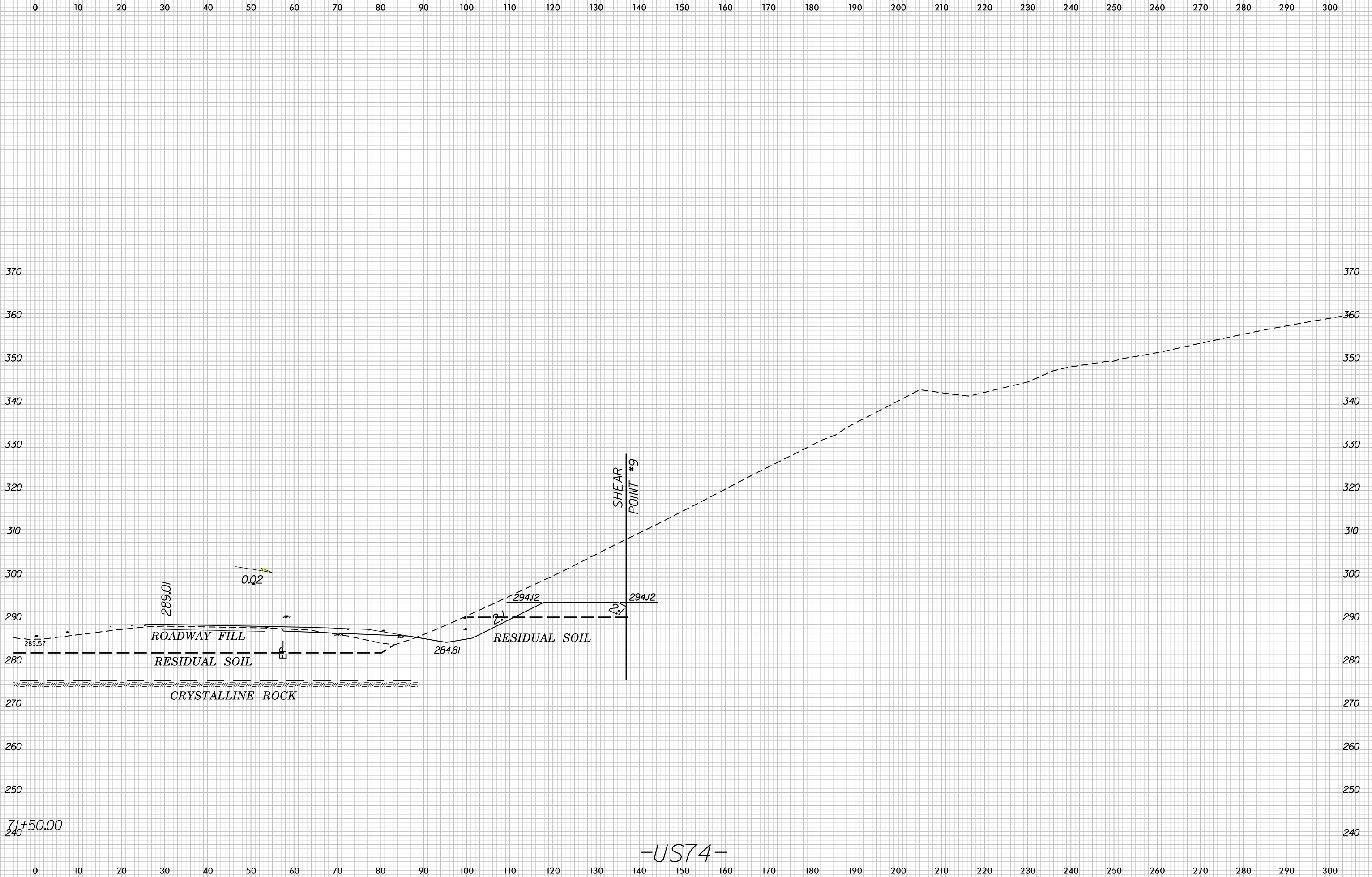
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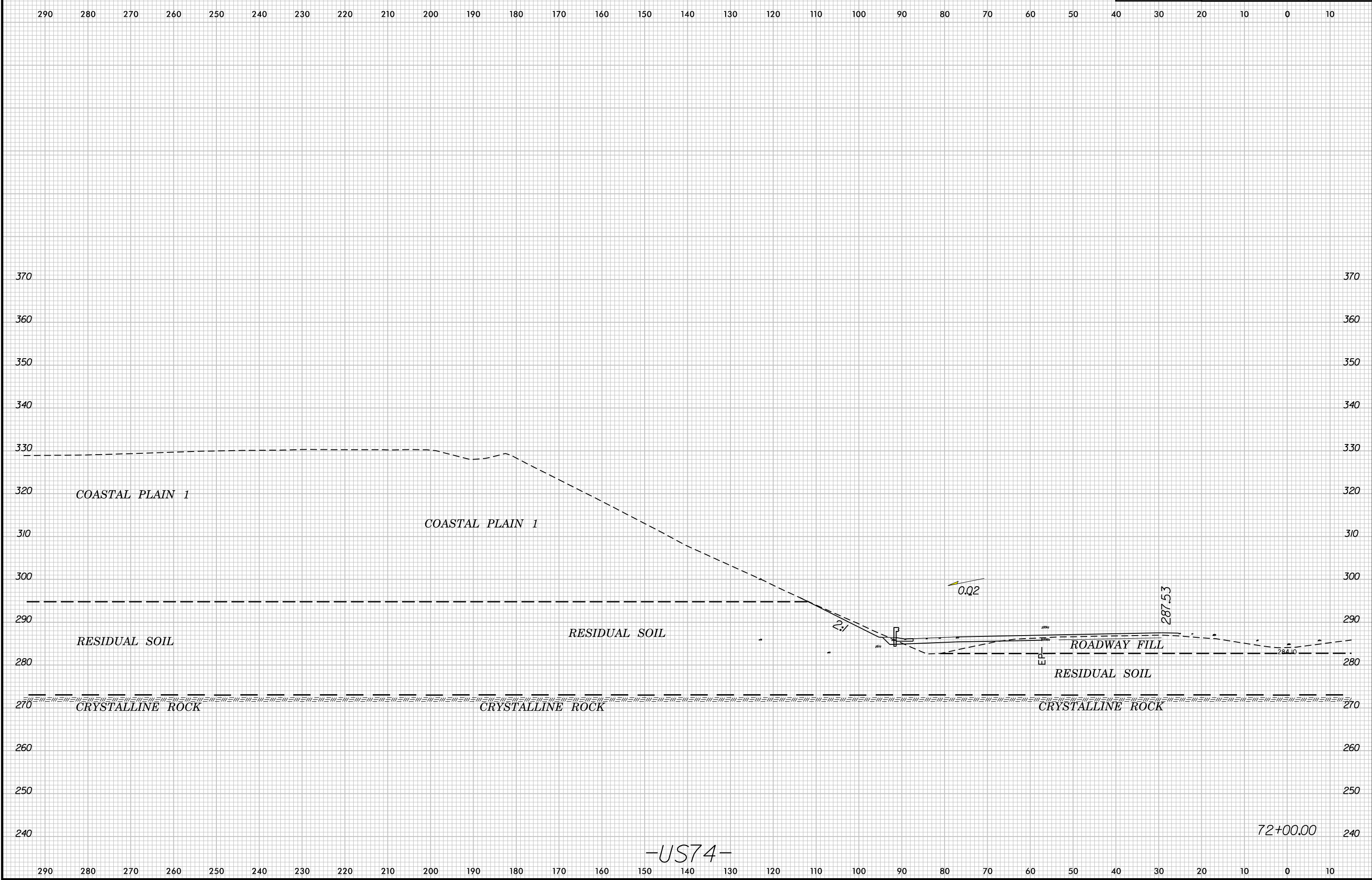


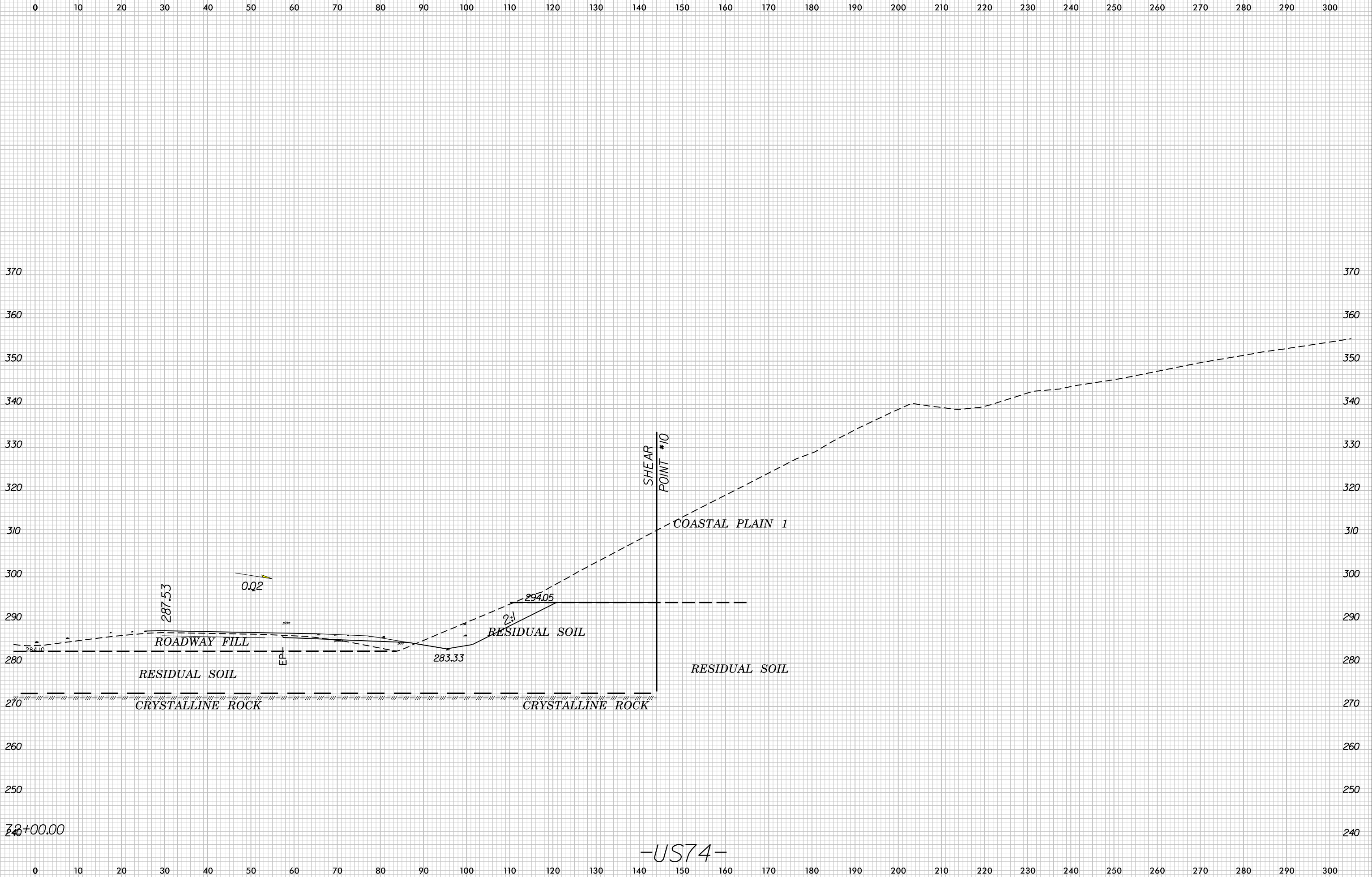
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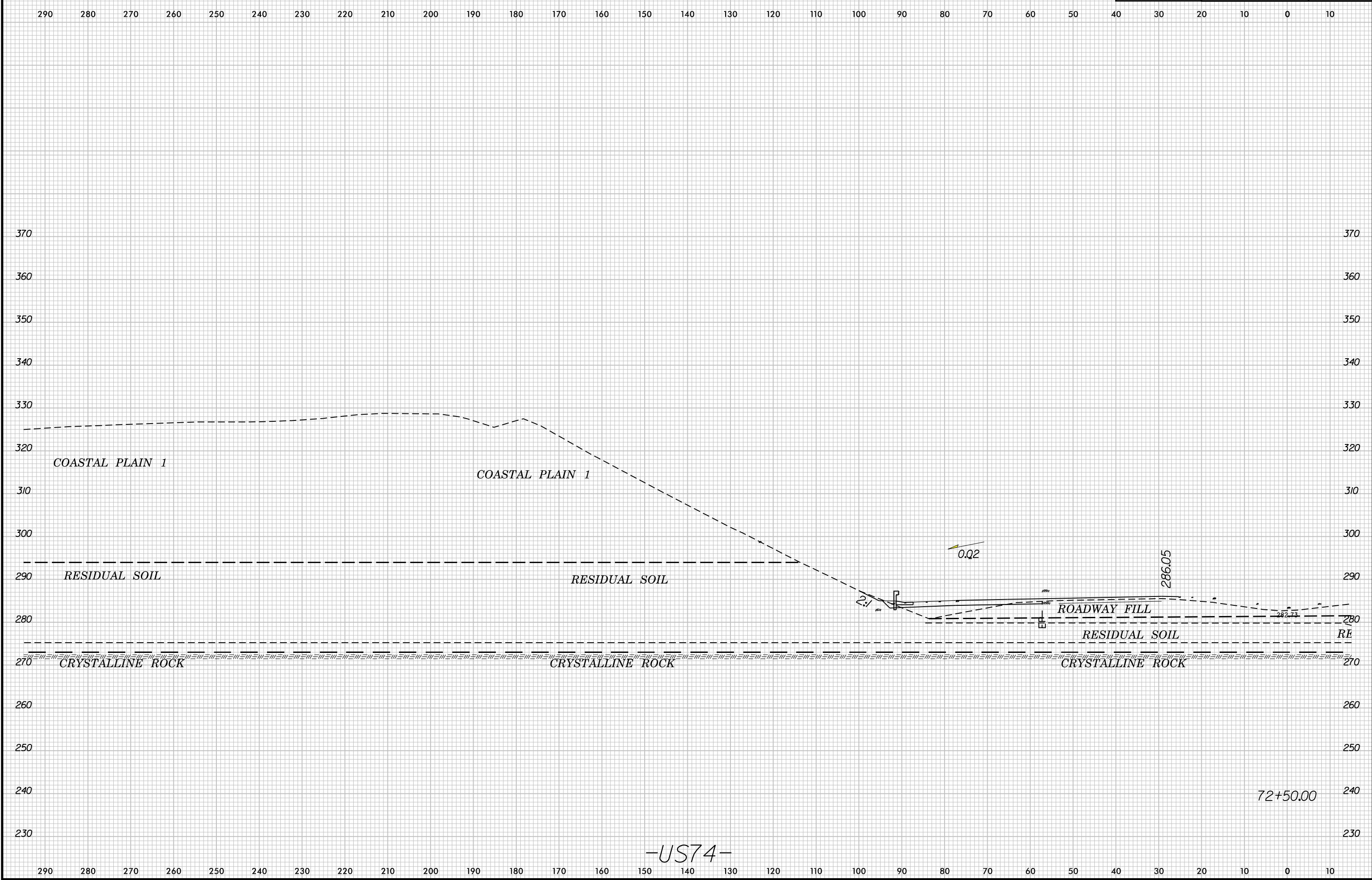
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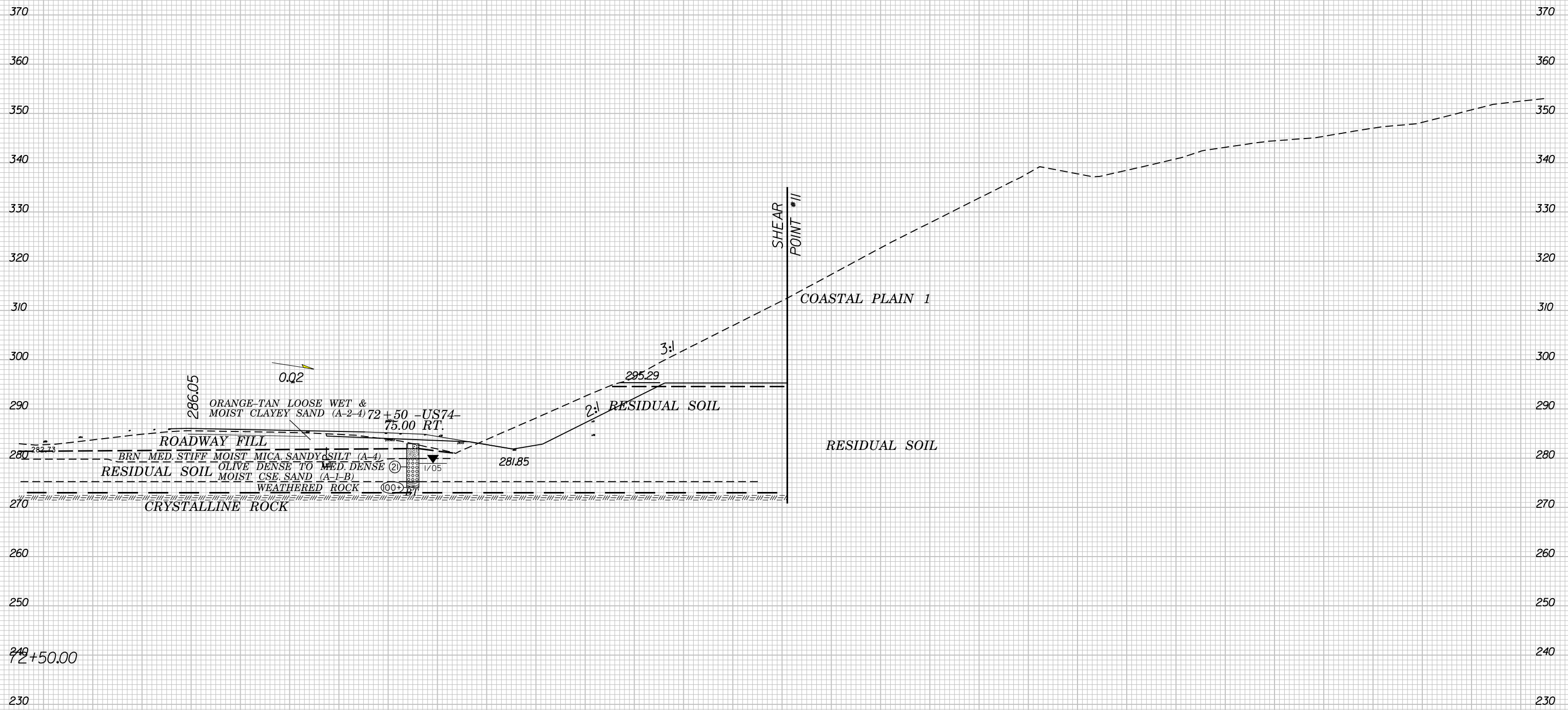
8/23/99



PROJ. REFERENCE NO.
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SHEET NO.
76

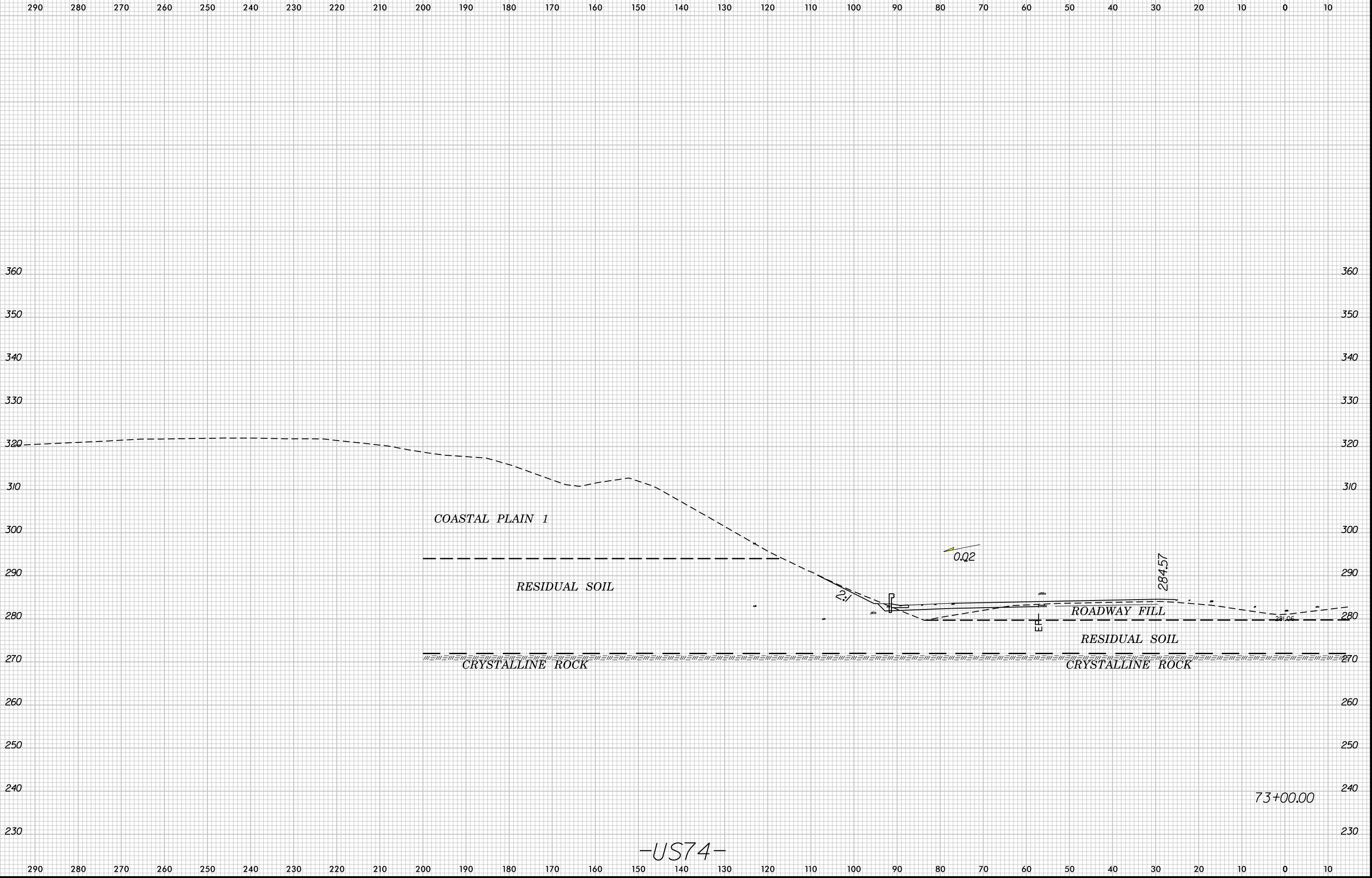
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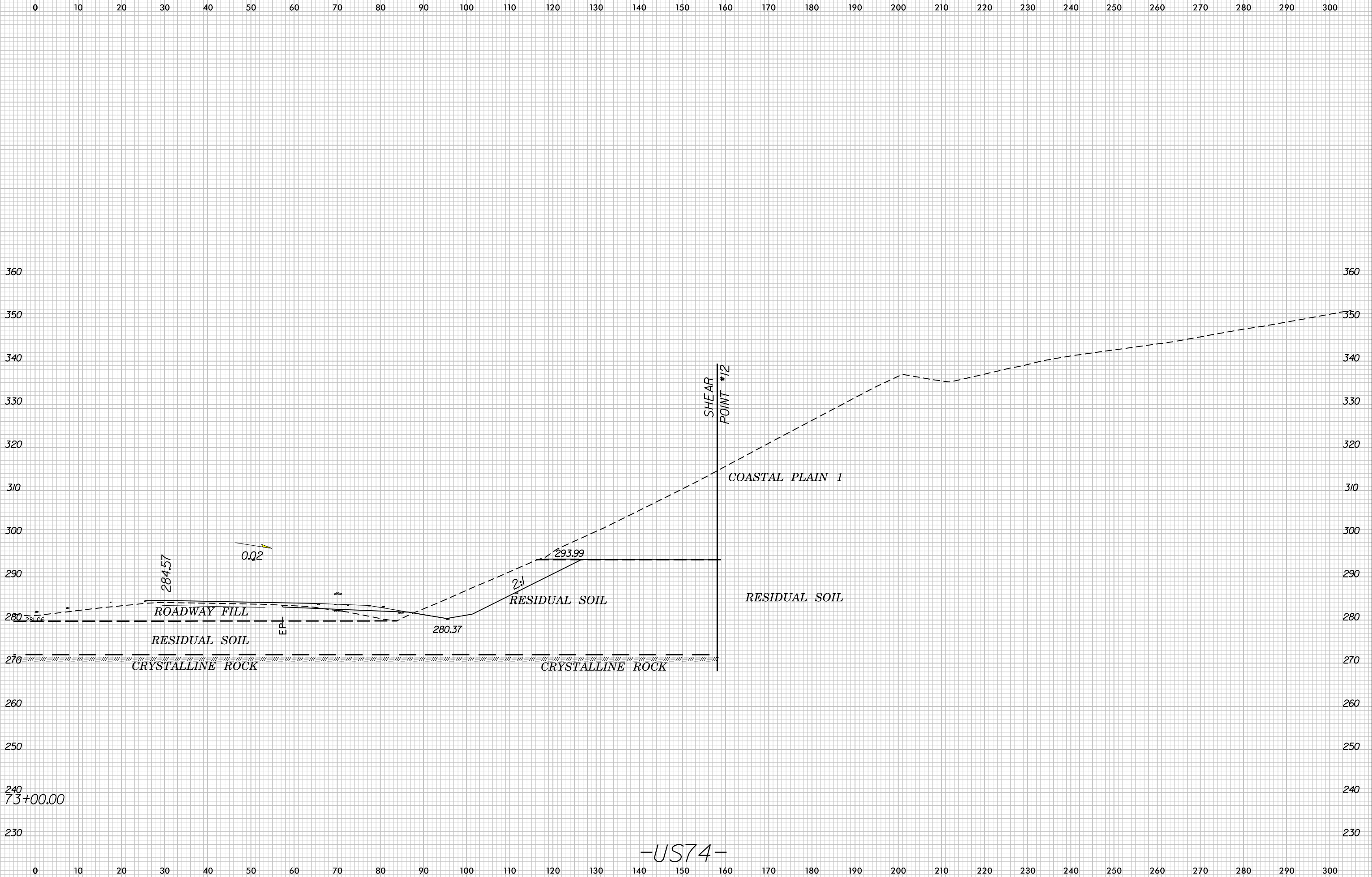


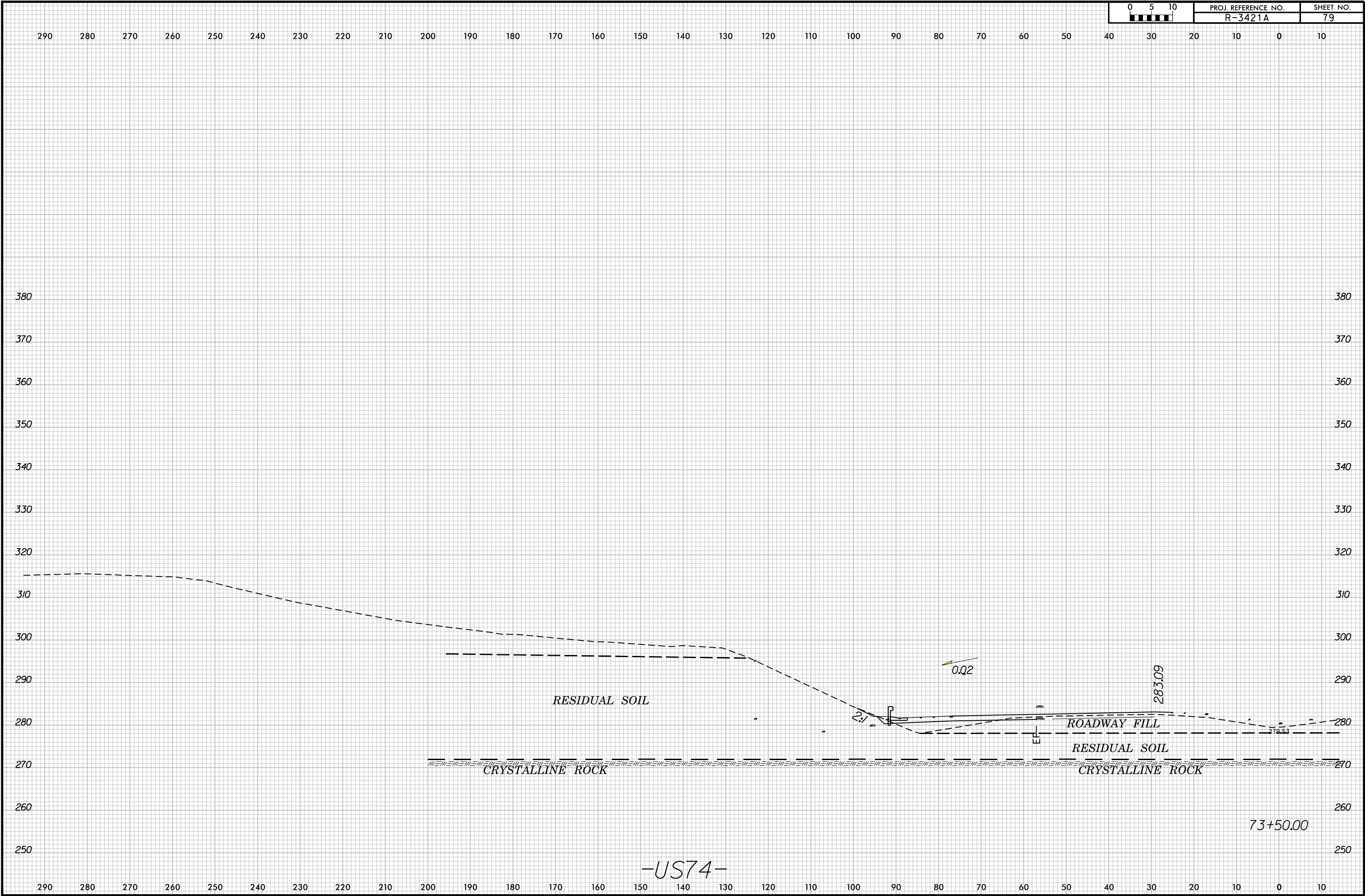
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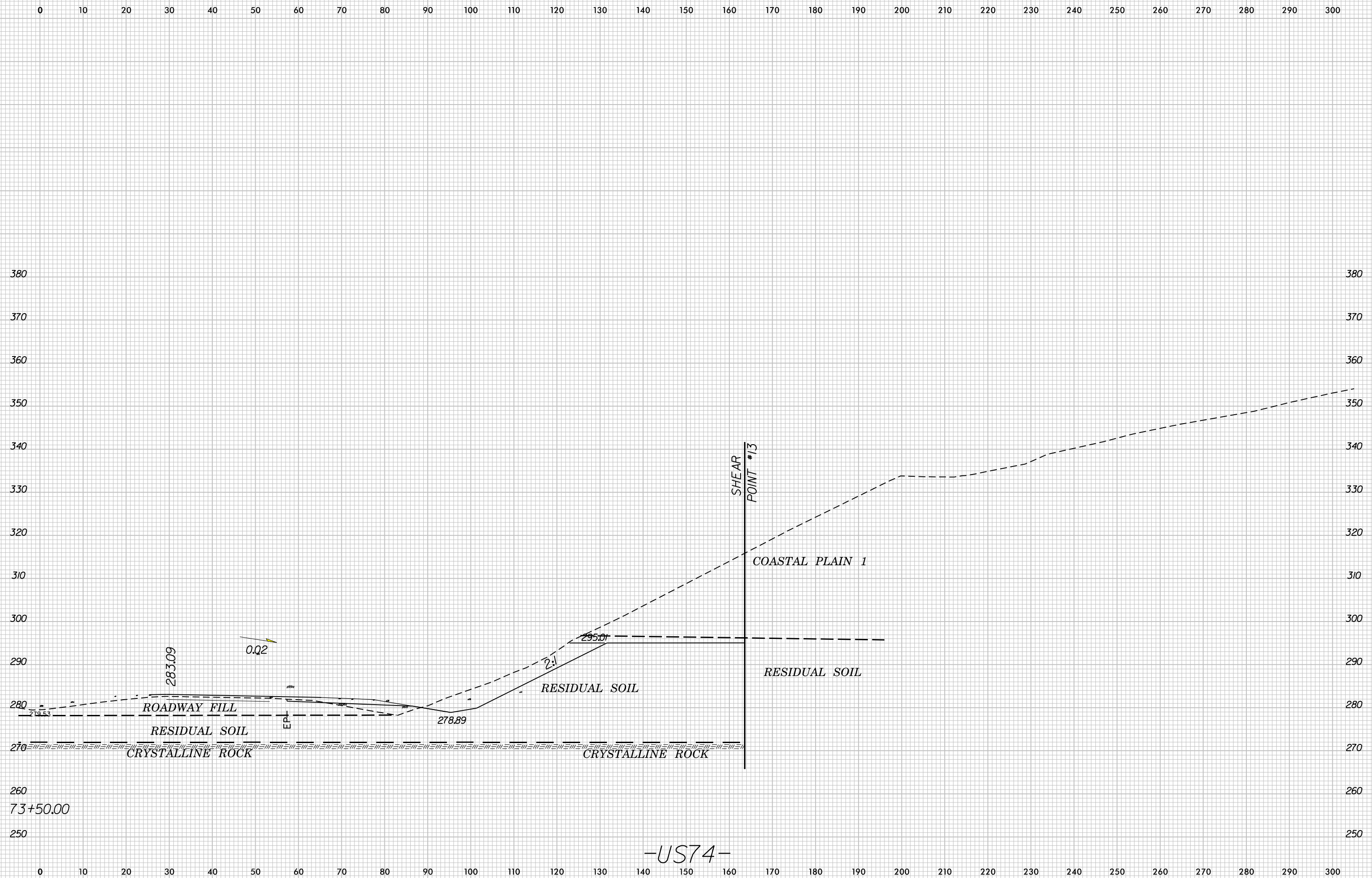




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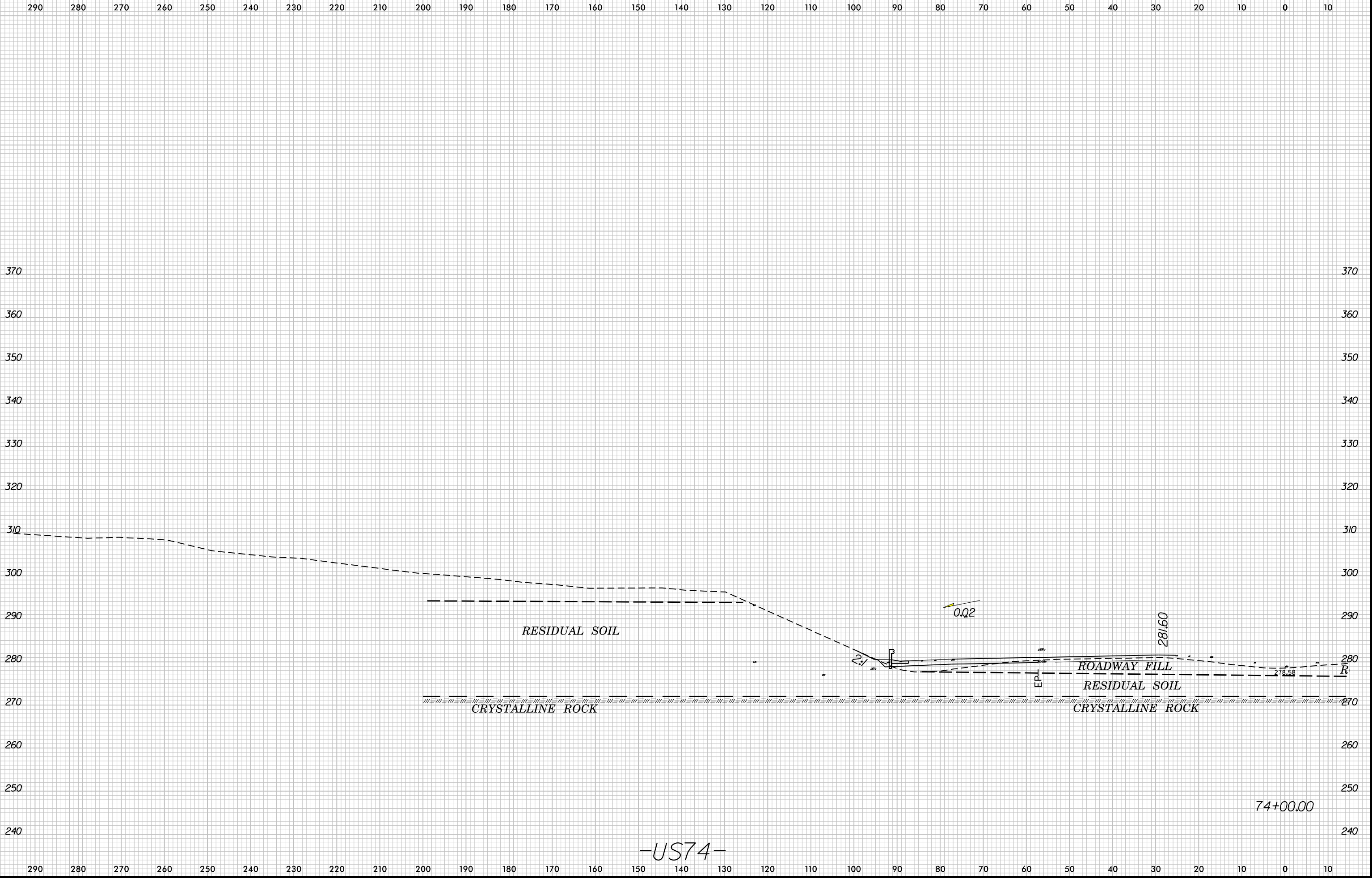
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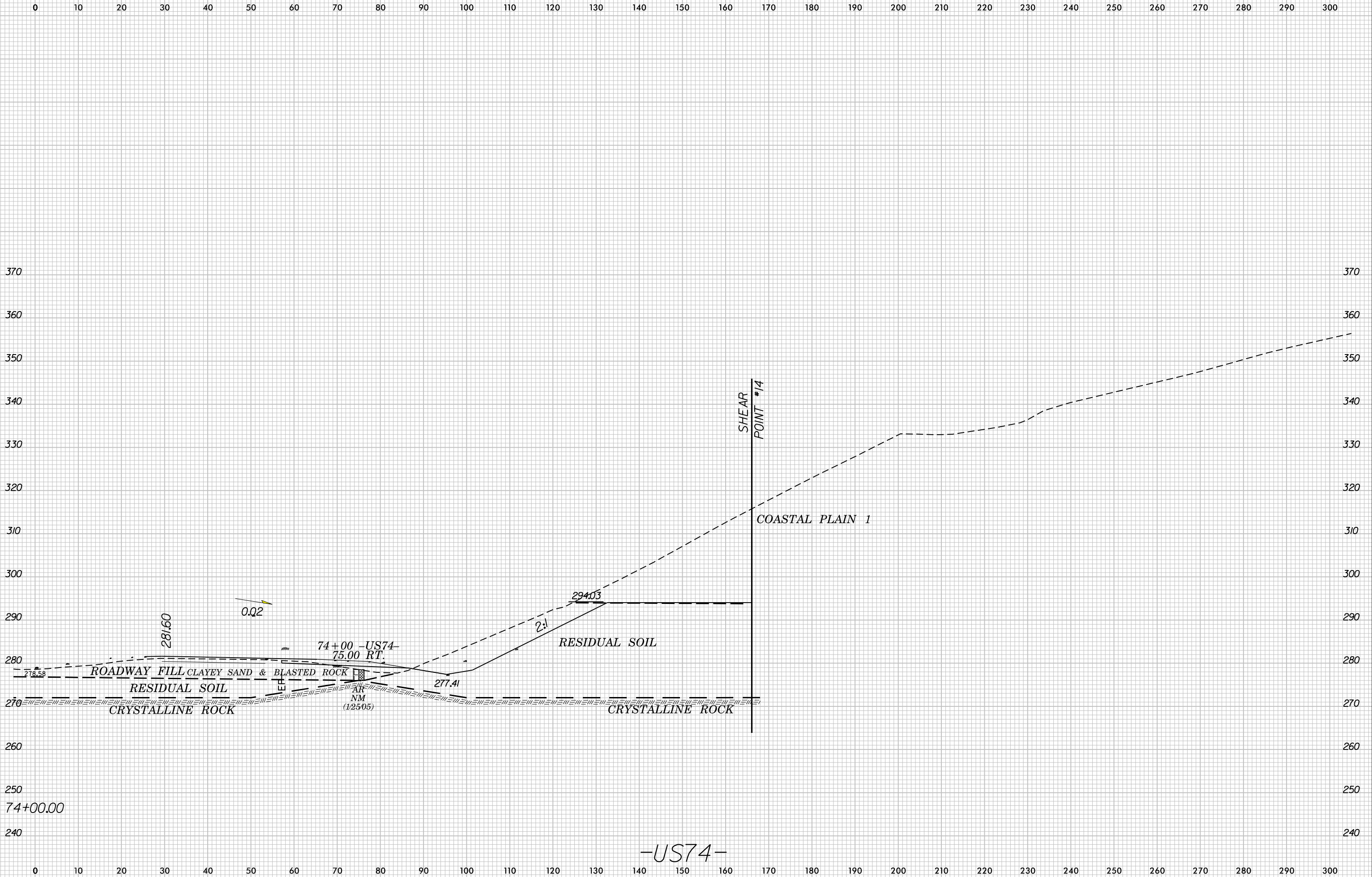


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73+50.00

-US74-

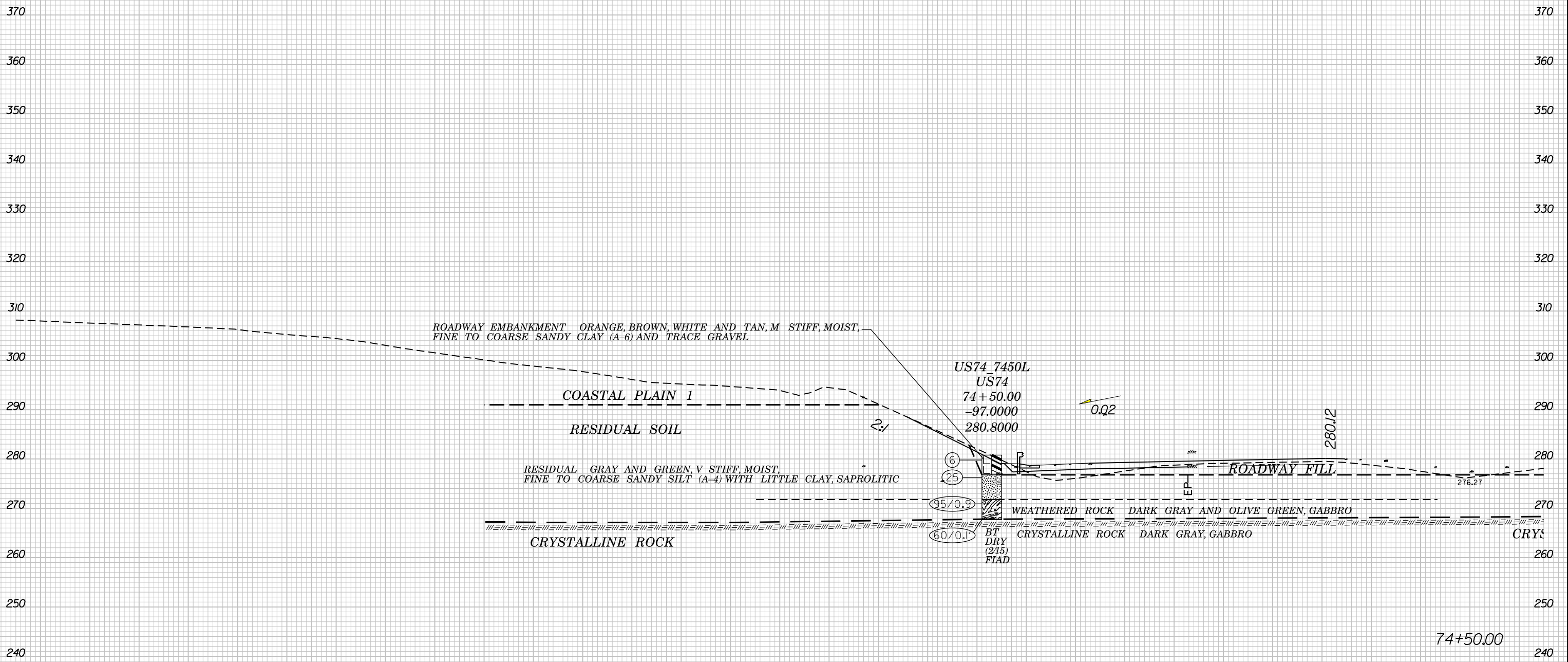




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8/23/99

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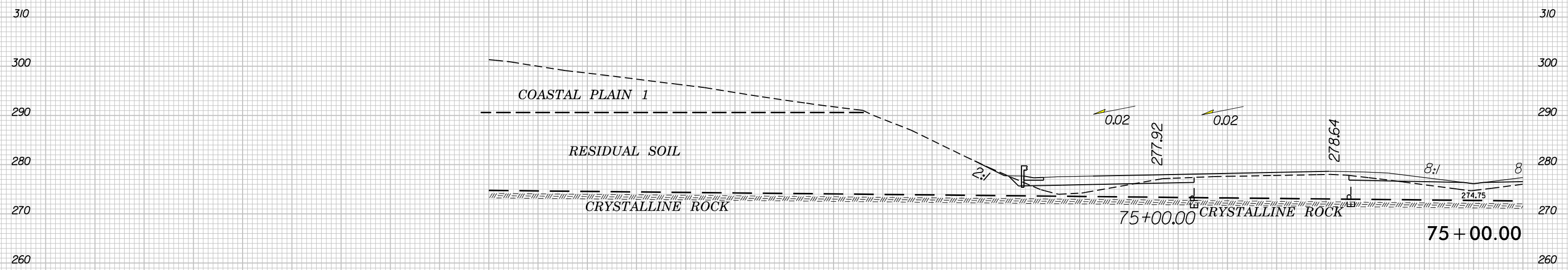


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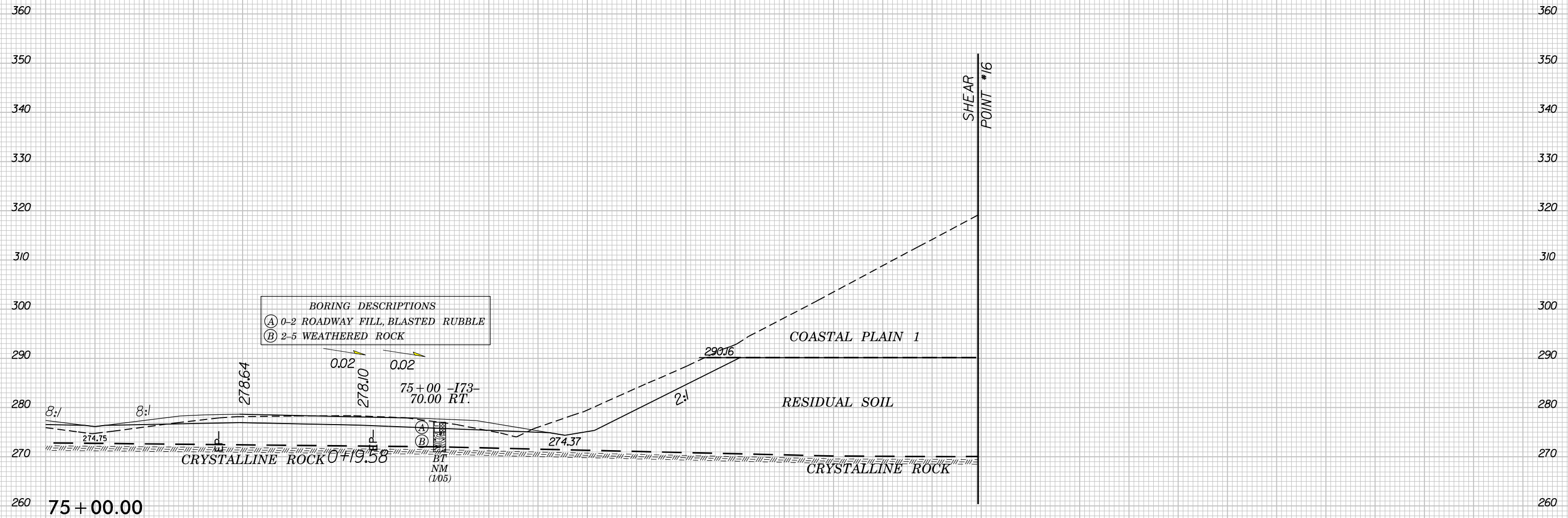
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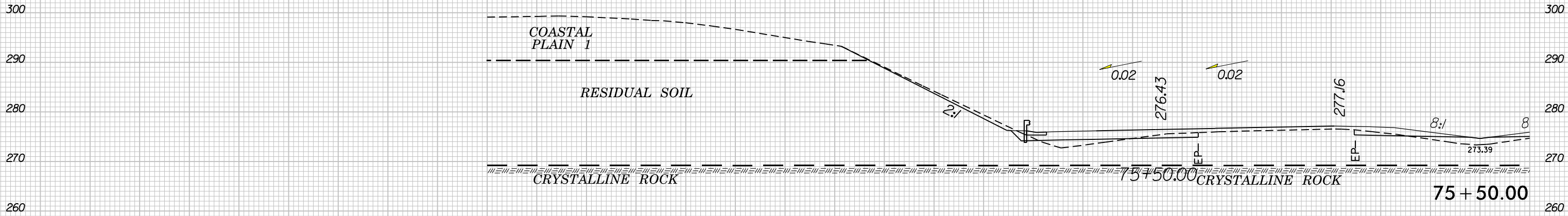
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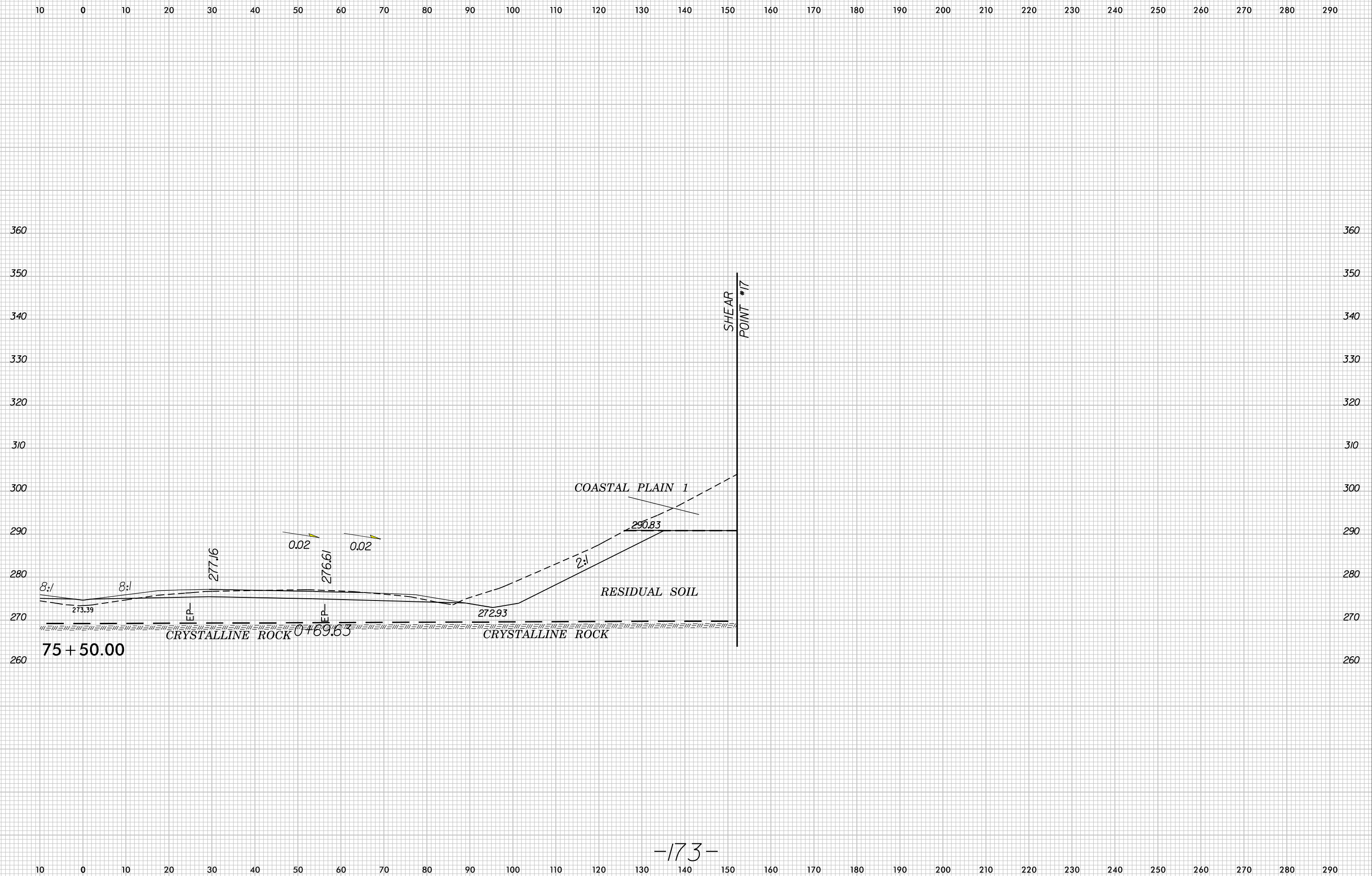


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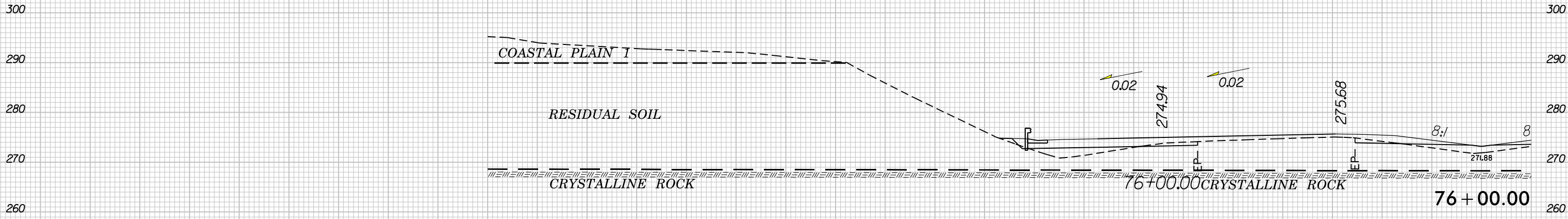
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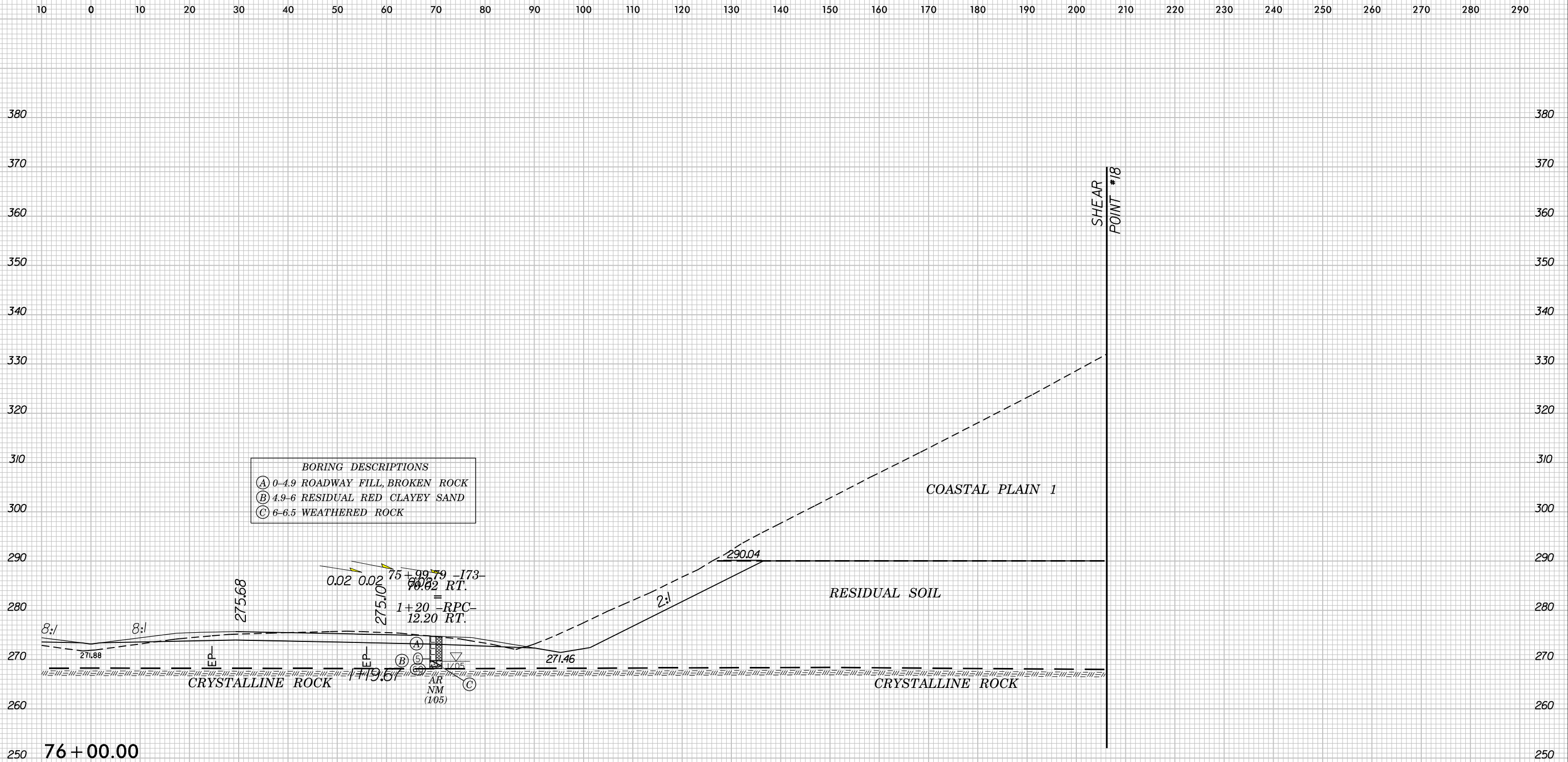
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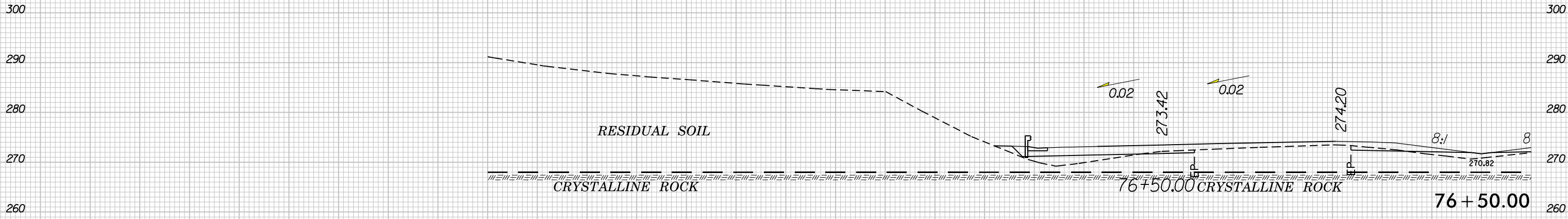
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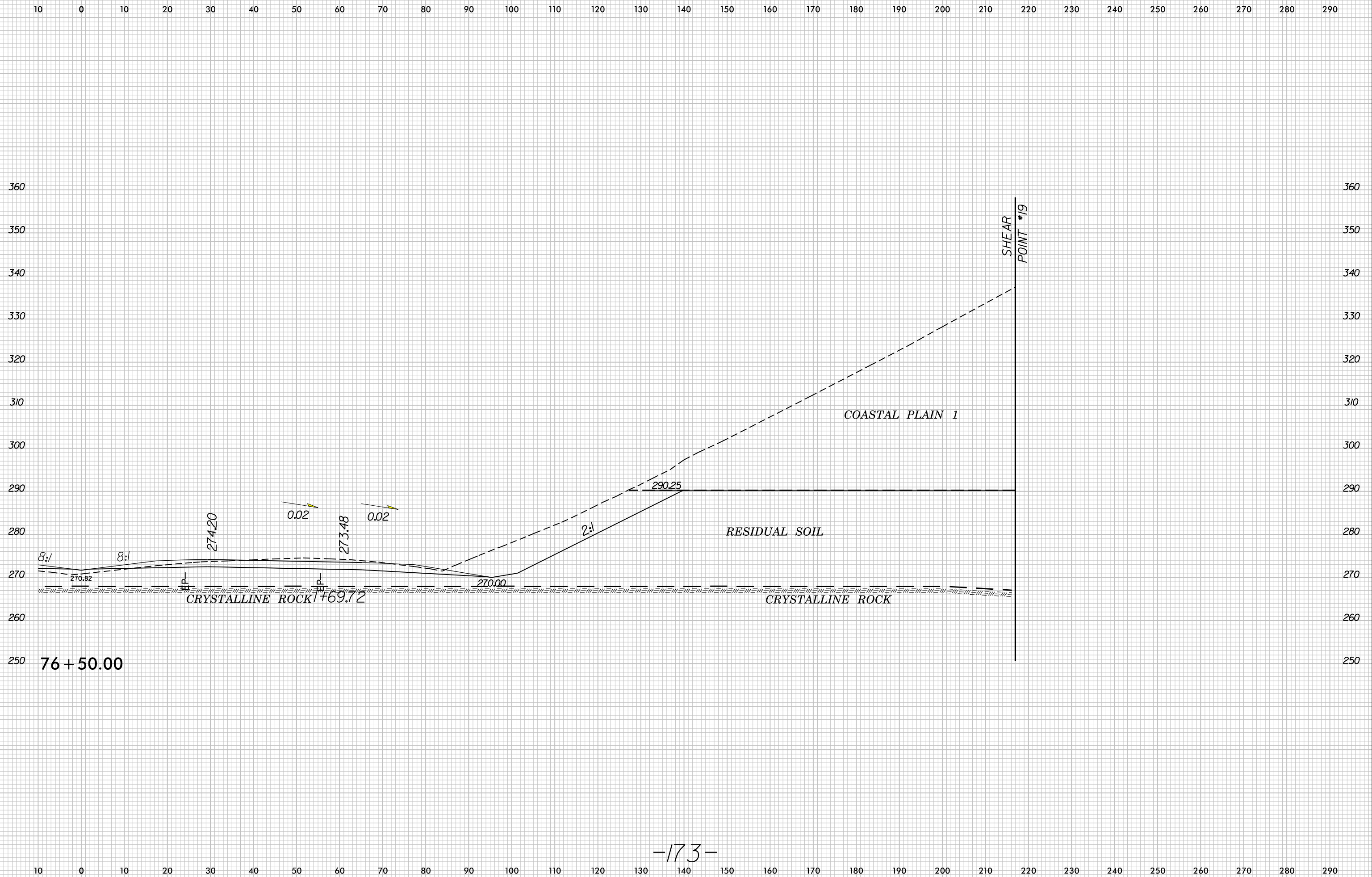
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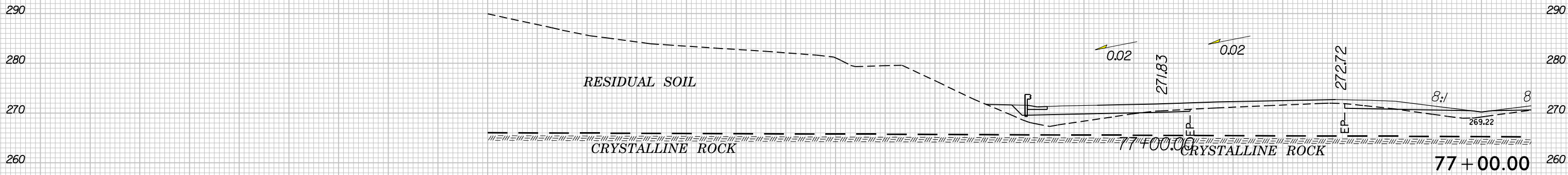
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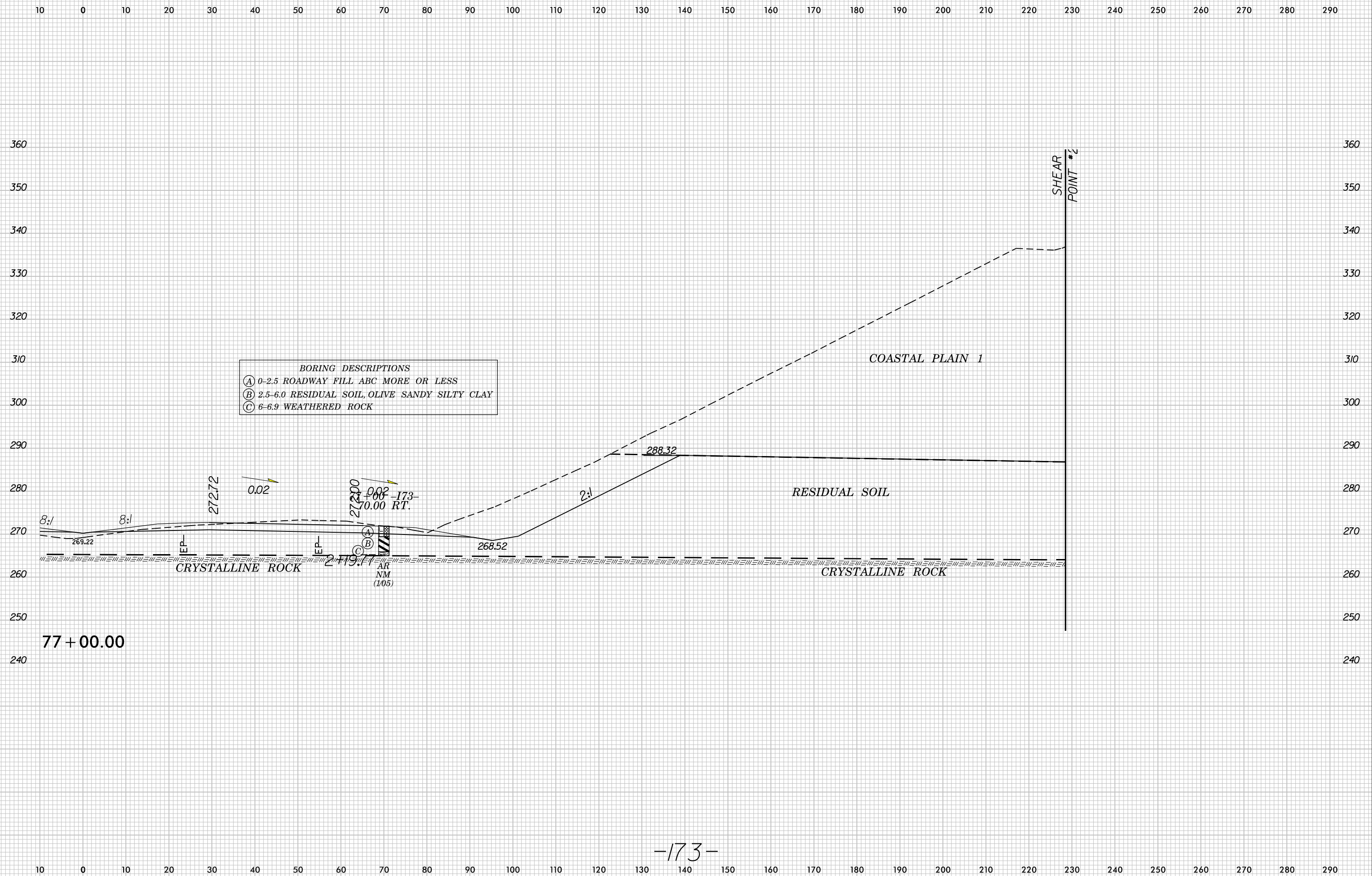
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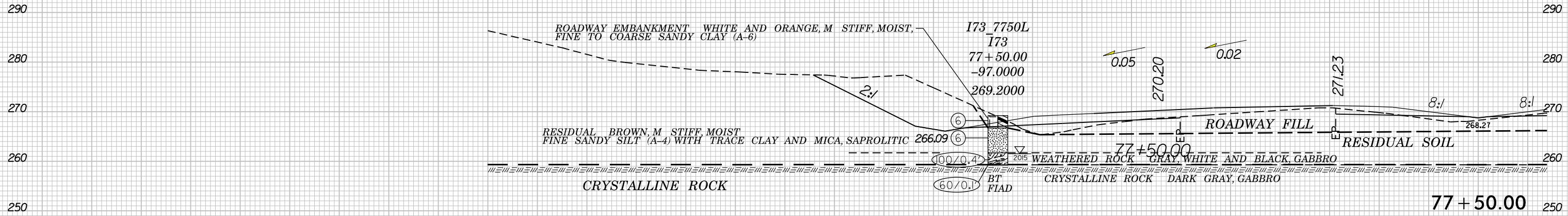


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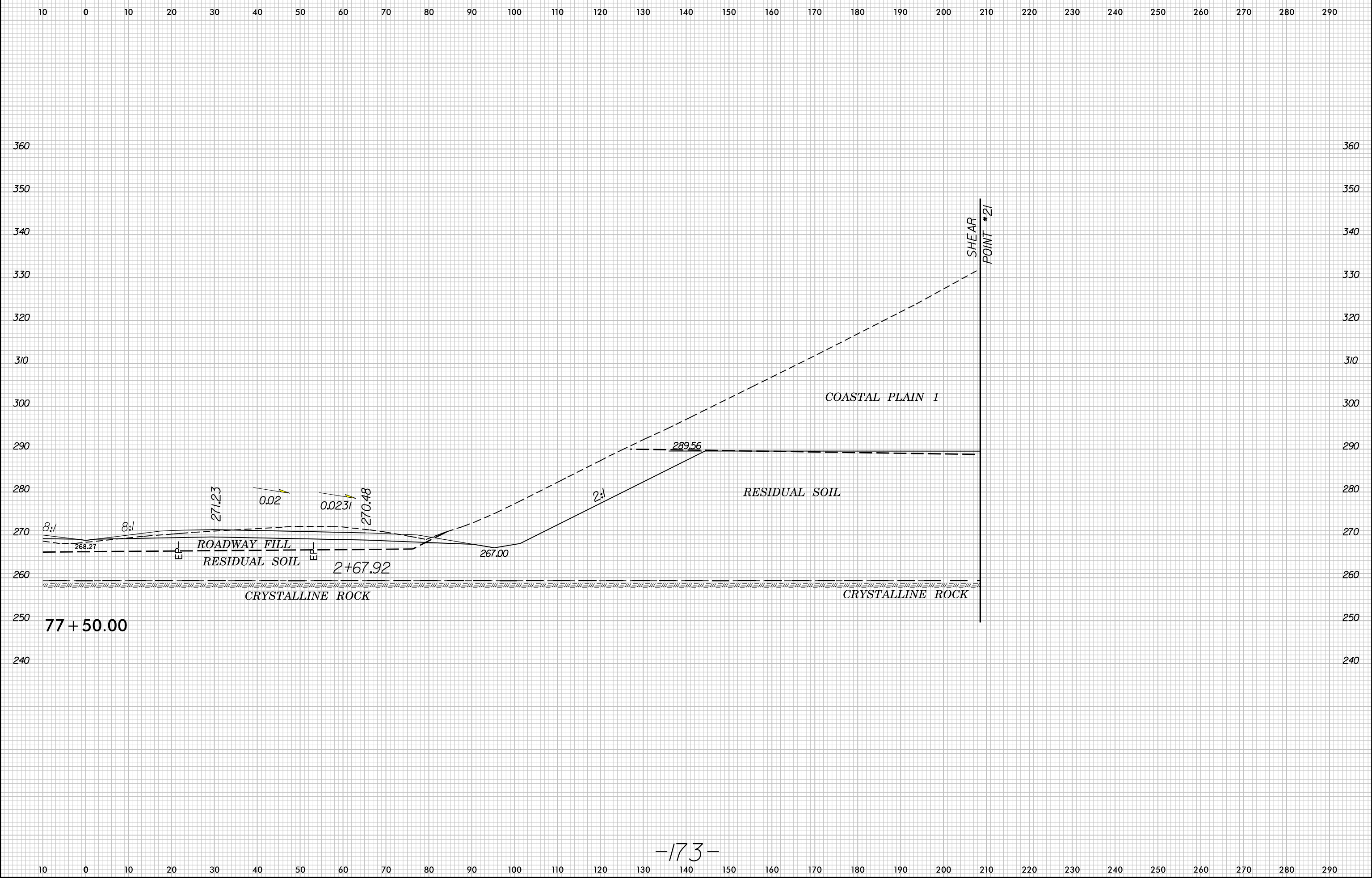
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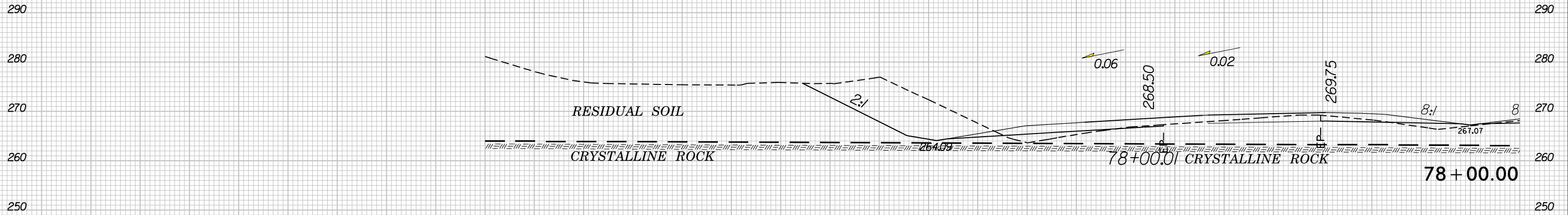
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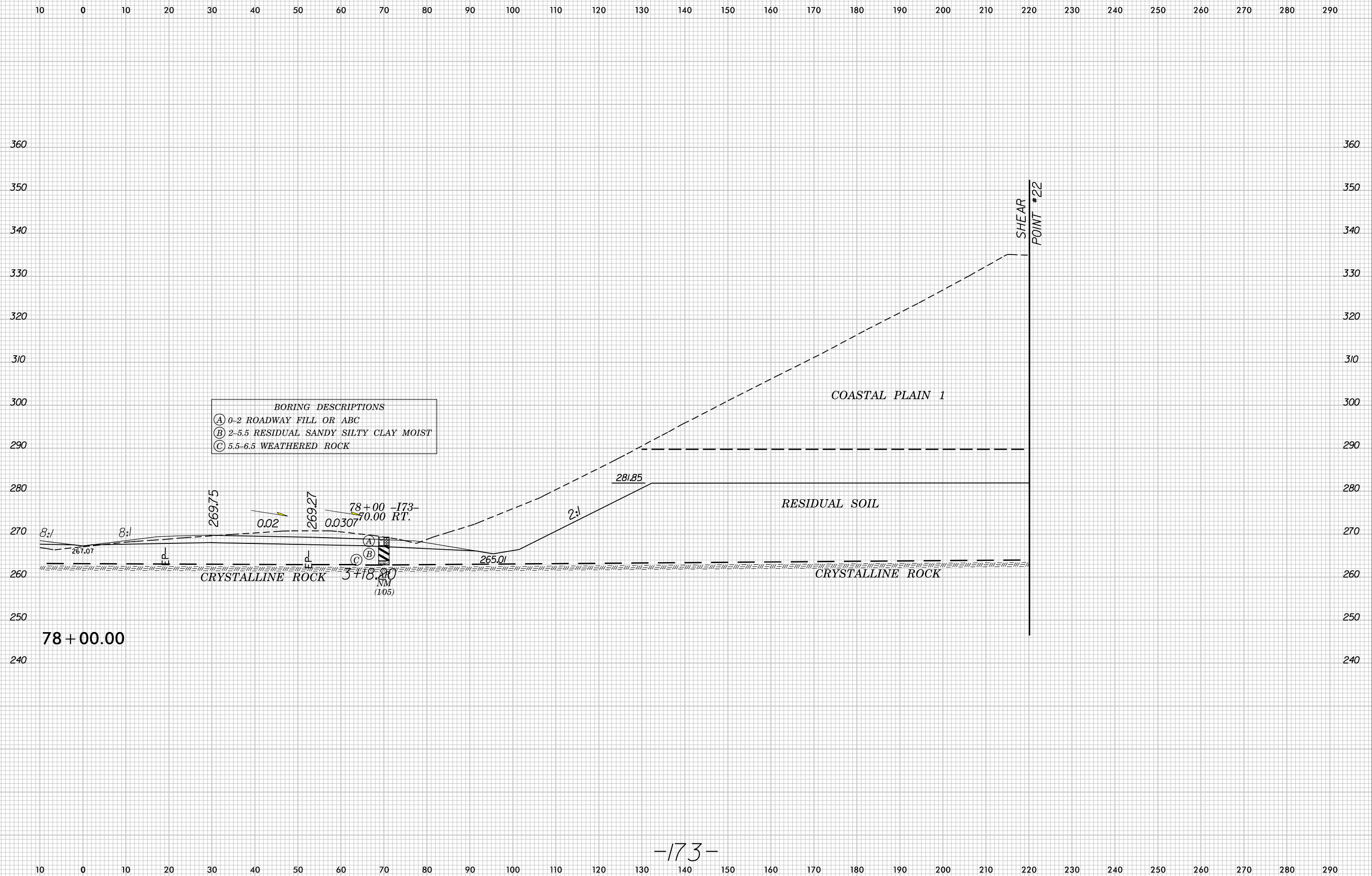


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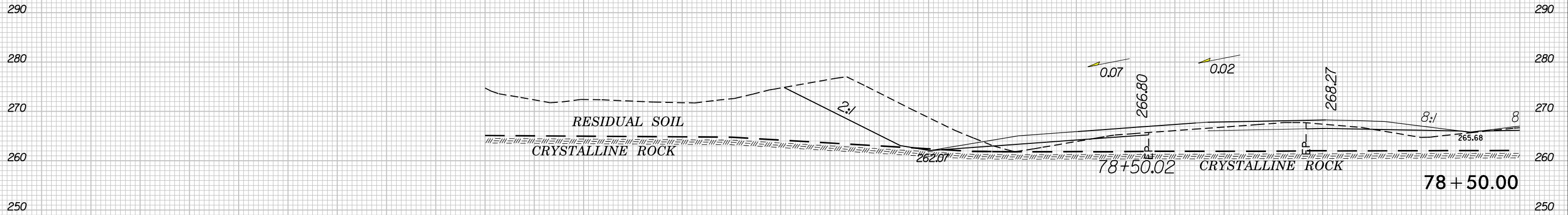
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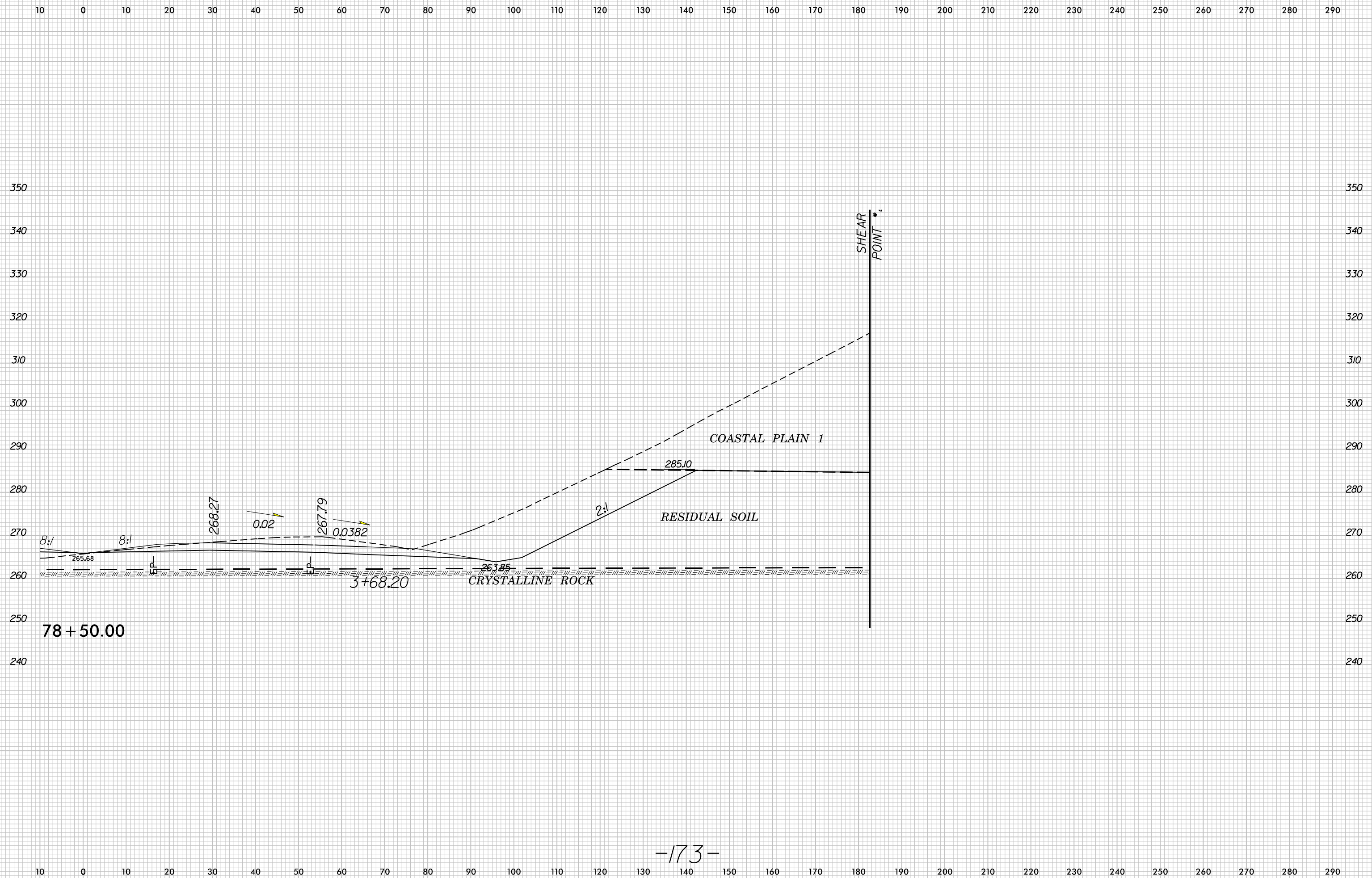
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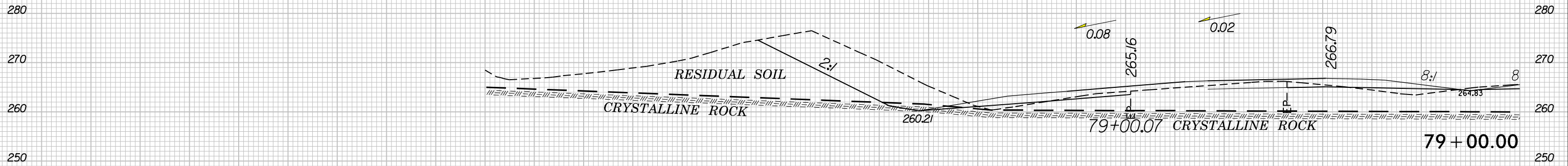
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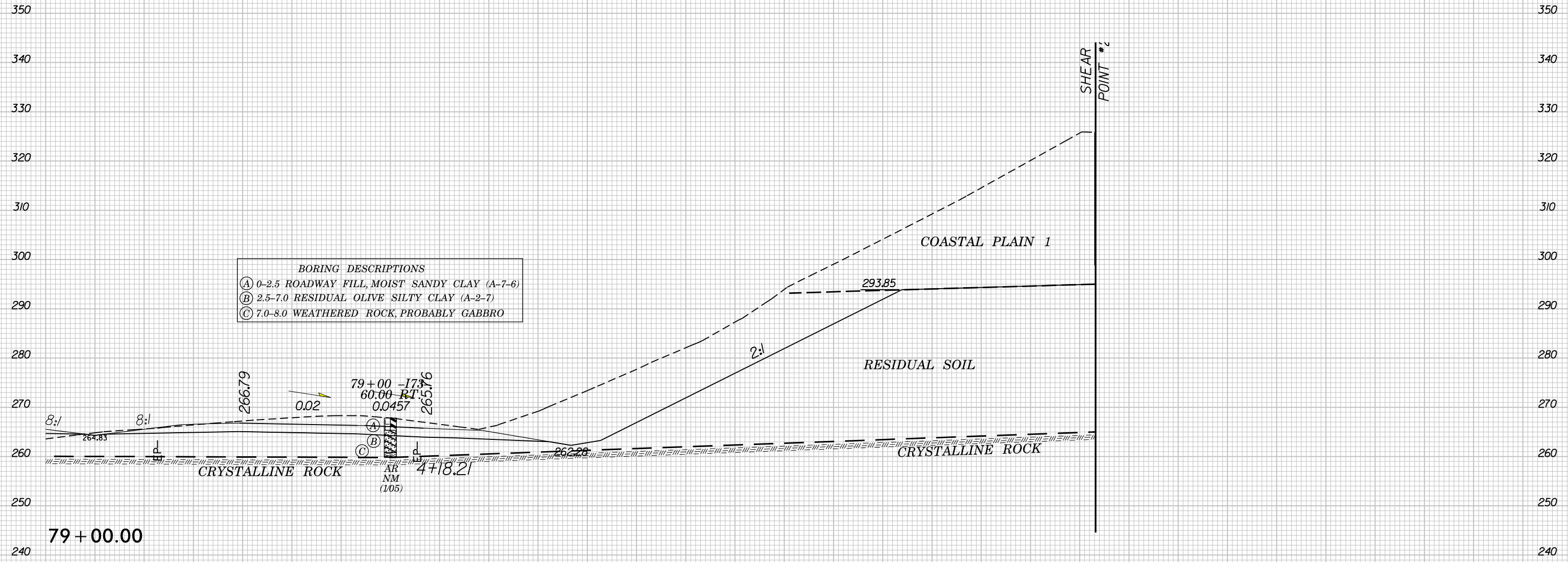


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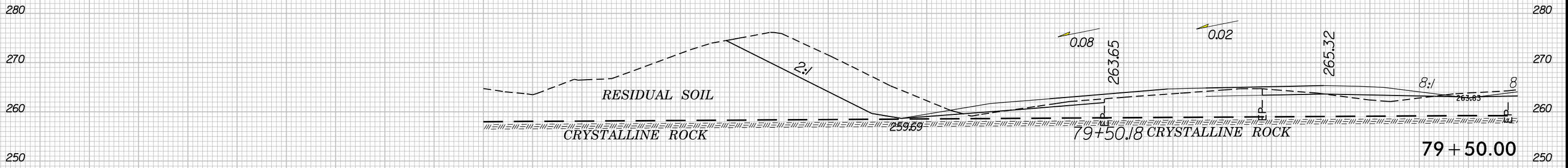


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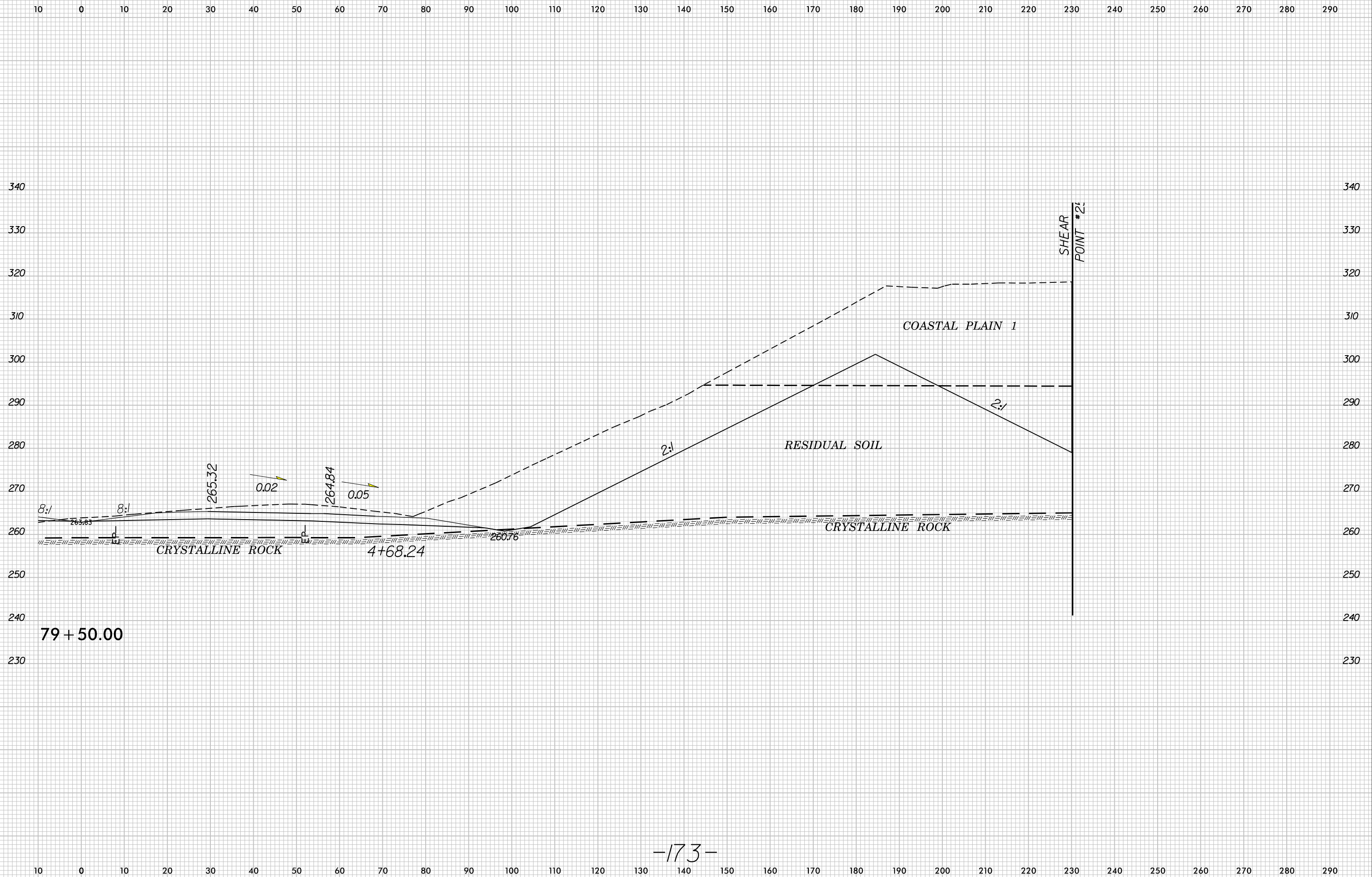
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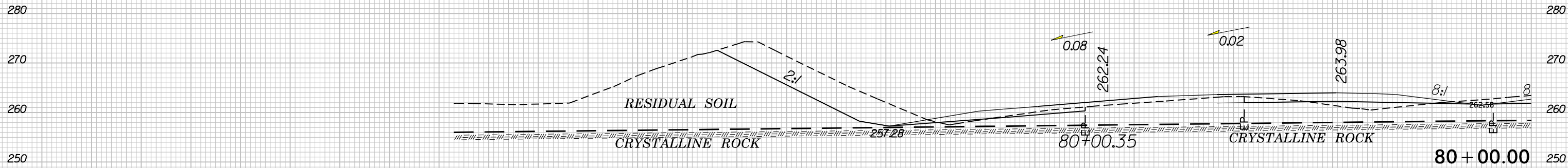
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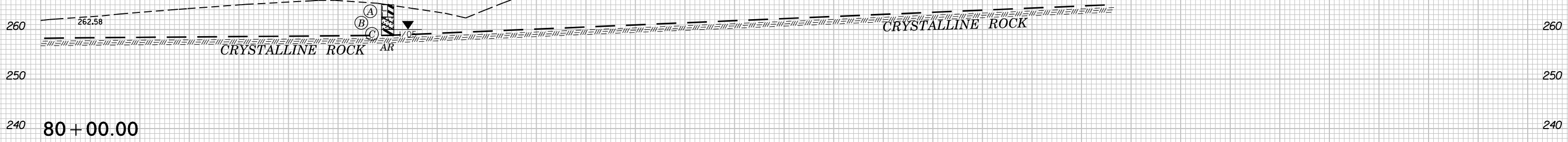
SOIL TEST RESULTS

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-302	50 RT	80+00	0.00-2.50	A-7-6(6)	42	22	39.1	20.8	9.9	30.2	98	74	47	-	-
SS-303	50 RT	80+00	2.50-5.00	A-2-7(3)	43	27	53.0	15.5	5.2	26.2	93	59	31	-	-
SS-304	50 RT	80+00	5.00-6.00	A-7-6(21)	66	40	22.6	23.0	16.1	38.3	100	85	59	-	-

- BORING DESCRIPTIONS**
- (A) 0-2.5 ROADWAY FILL, BROWN AND PINK SANDY CLAY (A-7-6)
 - (B) 2.5-5.0 RESIDUAL MOIST BROWN CLAYEY SAND (A-2-7)
 - (C) 5-6.2 RESIDUAL STIFF TO HARD CLAY (A-7-6)

SS-302
SS-303
SS-304

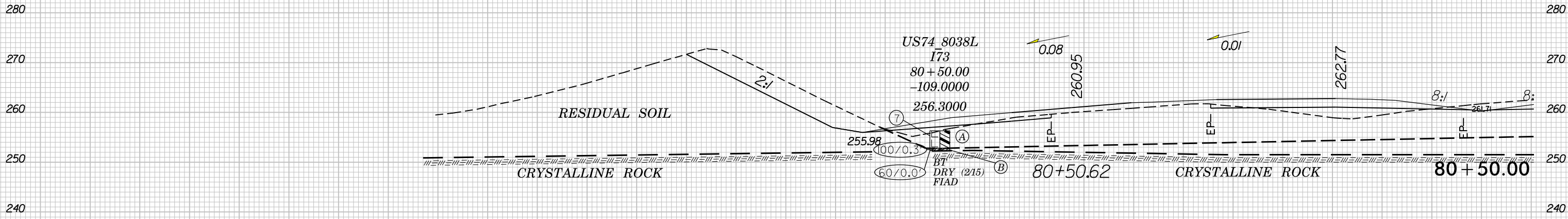
80+00 -173-
60.00 RT.



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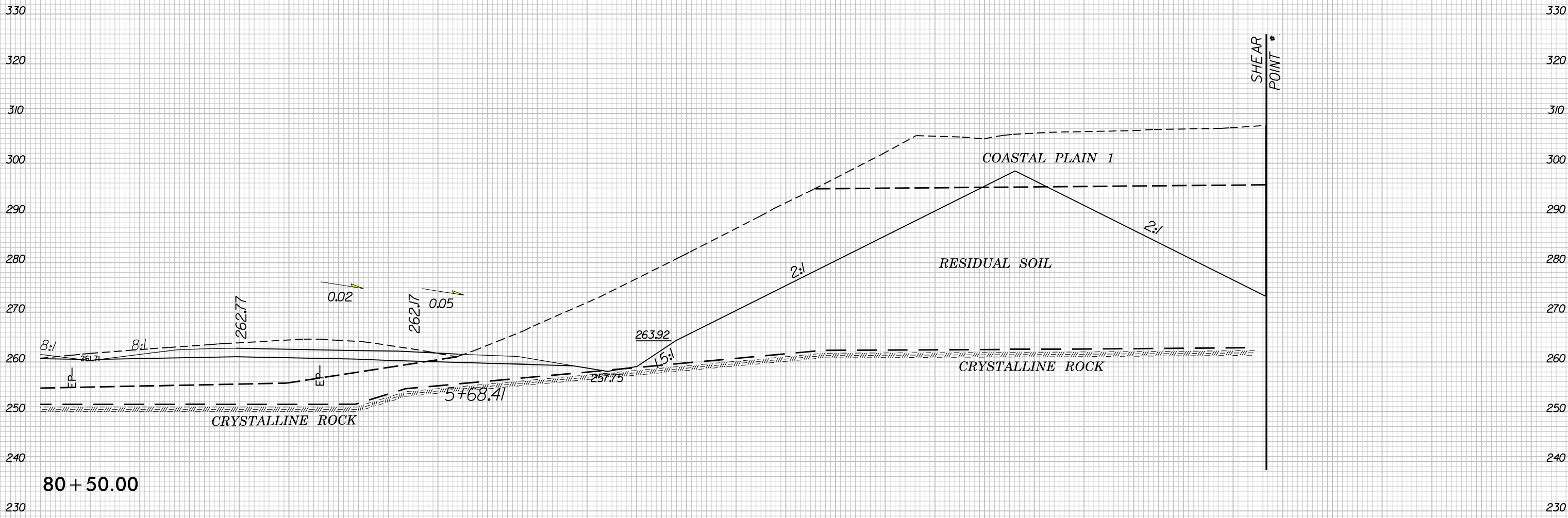
290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

BORING DESCRIPTIONS
 (A) ROADWAY EMBANKMENT - ORANGE, BROWN AND TAN, M STIFF, MOIST FINE TO COARSE SANDY CLAY (A-6) WITH GRAVEL
 (B) WEATHERED ROCK - GRAY AND BLACK, GABBRO



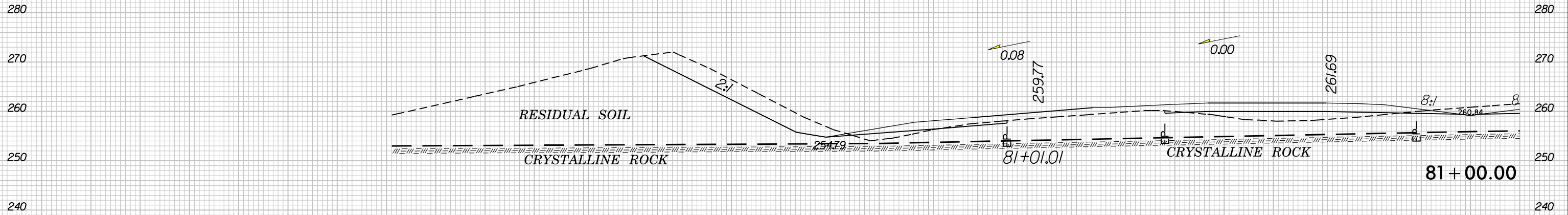
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10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

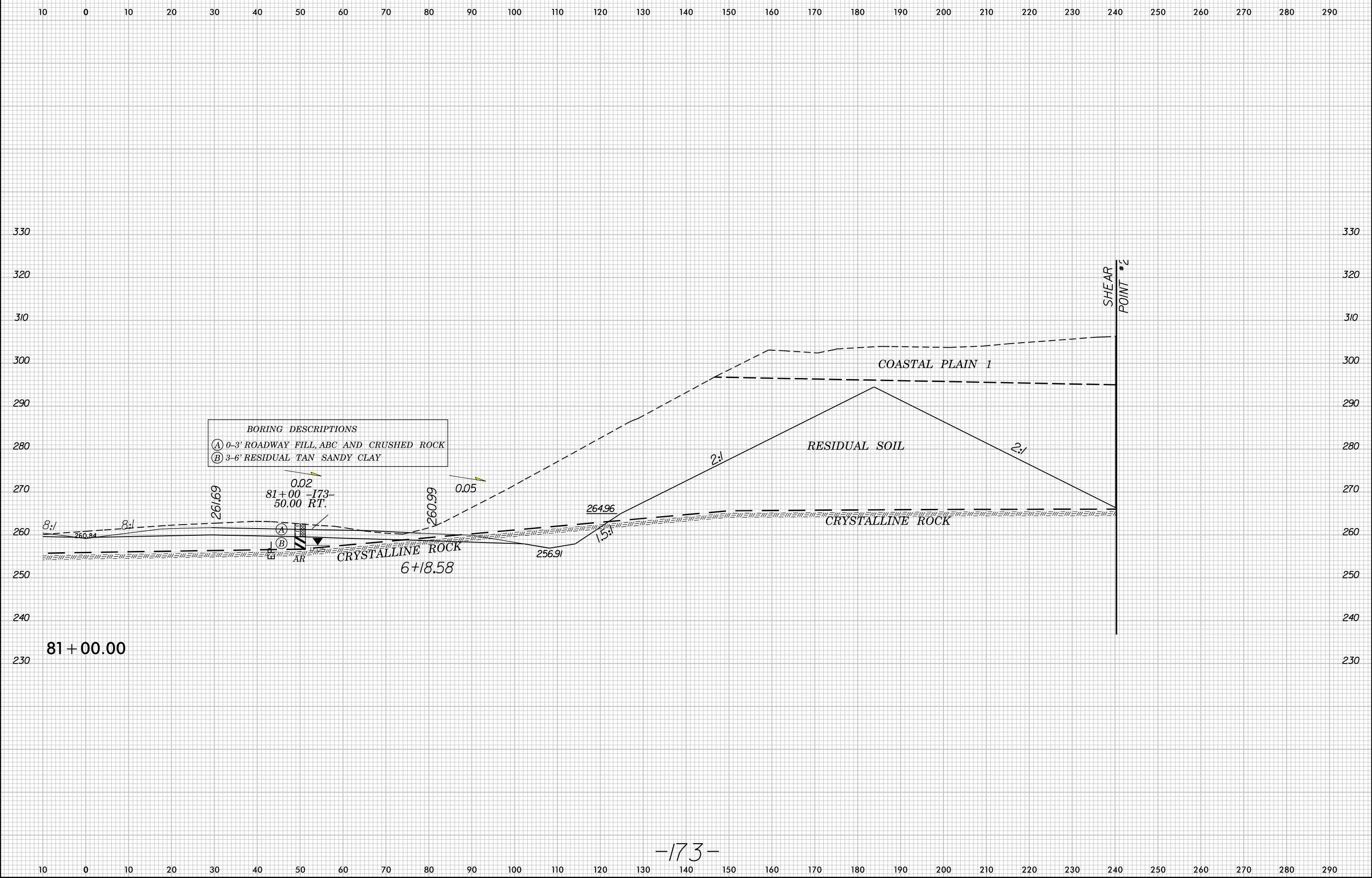


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

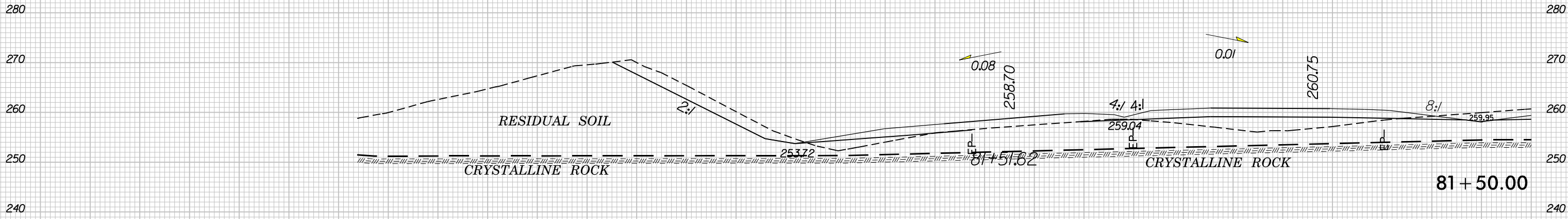


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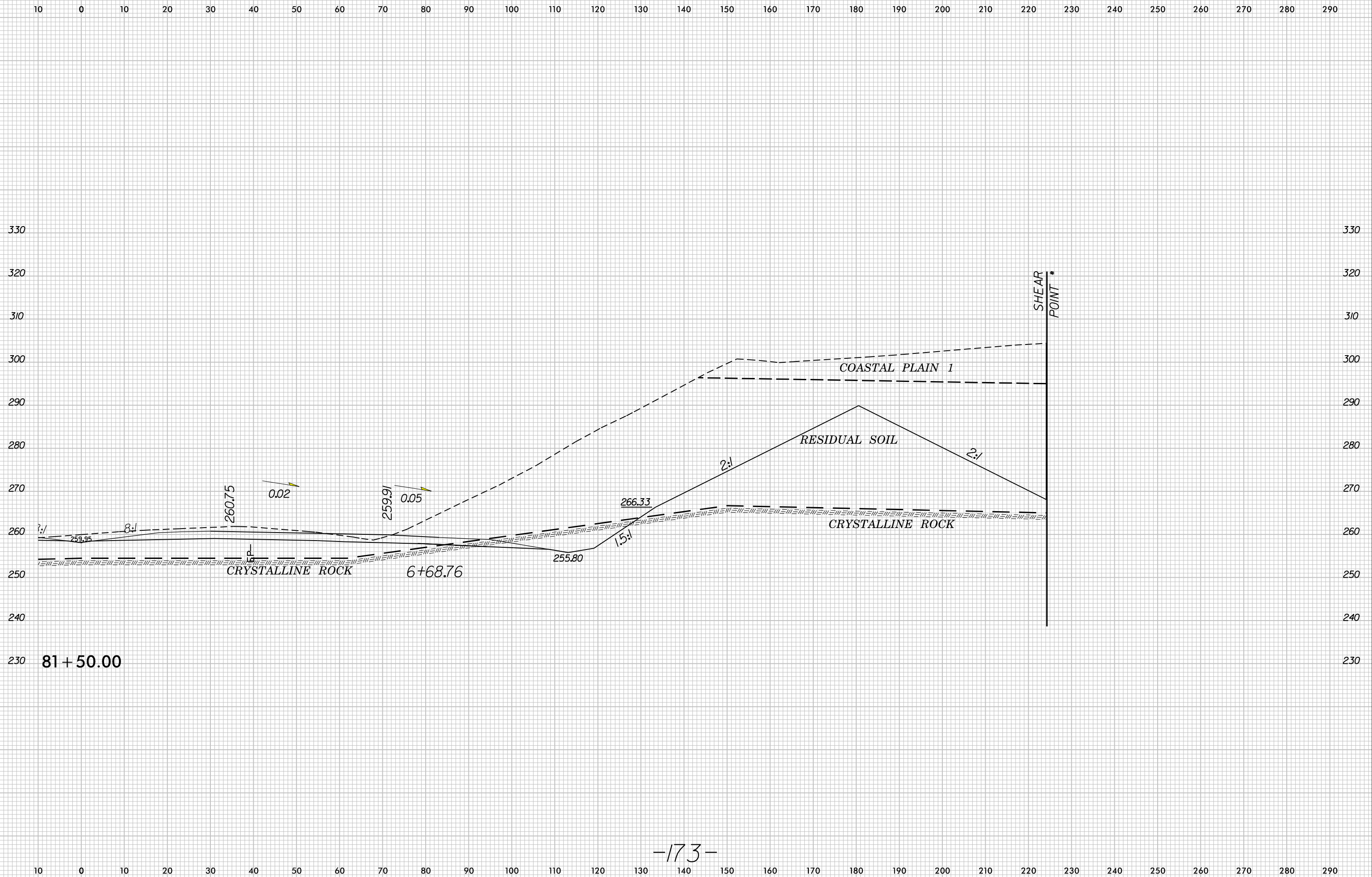


BORING DESCRIPTIONS
 (A) 0-3' ROADWAY FILL, ABC AND CRUSHED ROCK
 (B) 3-6' RESIDUAL TAN SANDY CLAY

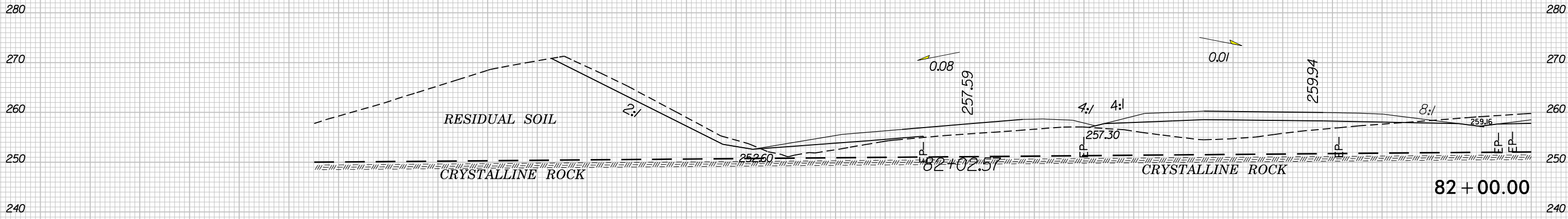
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



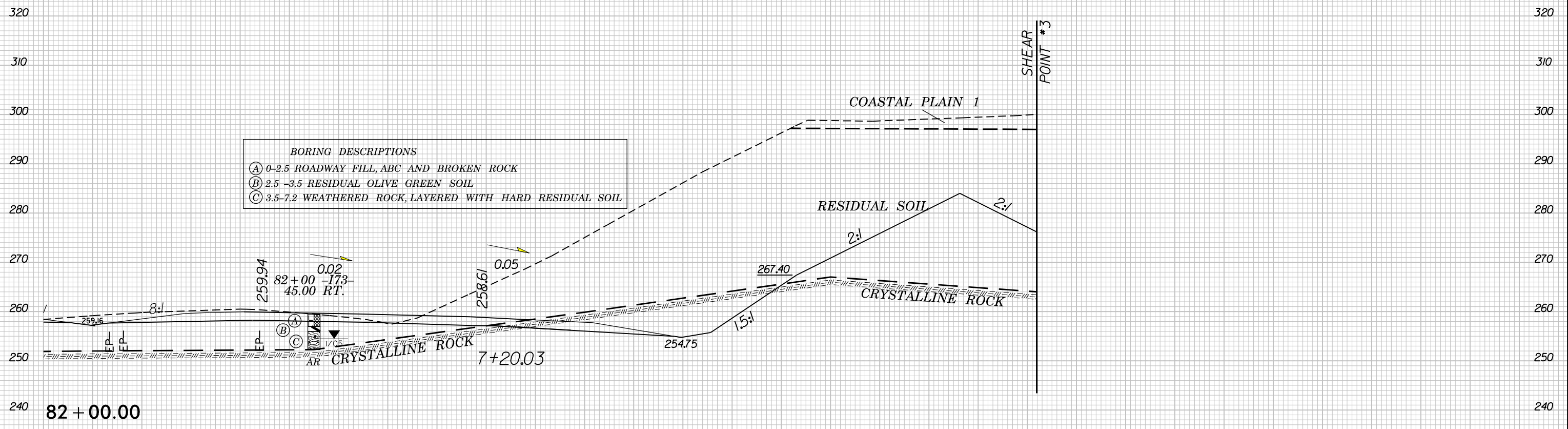
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

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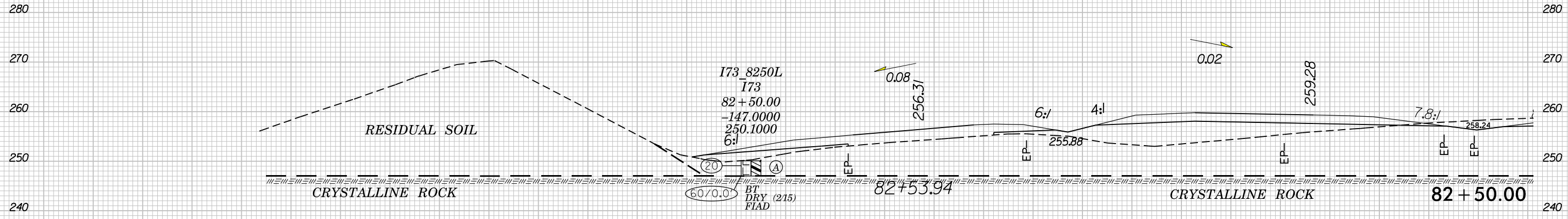


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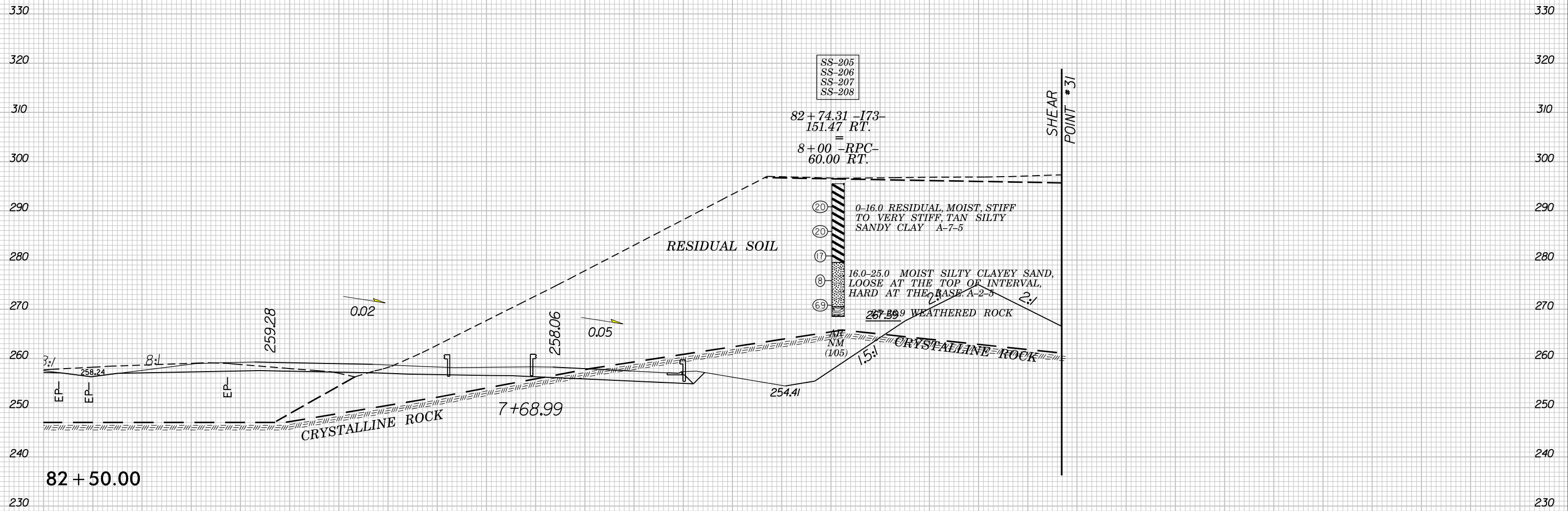
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BORING DESCRIPTIONS
 (A) ROADWAY EMBANKMENT GRAY AND BLACK, V. STIFF, MOIST, FINE TO COARSE SANDY CLAY (A-6) WITH GRAVEL



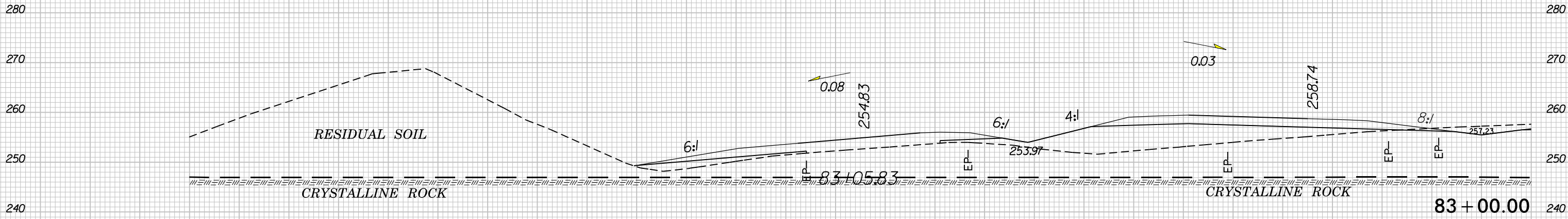
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							G. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-205	50 RT	8+00	3.70-5.20	A-7-5(24)	79	30	18.1	15.9	21.7	44.3	100	87	69	-	-
SS-206	50 RT	8+00	8.70-10.20	A-7-5(25)	79	16	1.8	13.1	36.8	48.3	100	100	88	-	-
SS-207	50 RT	8+00	13.70-15.20	A-7-5(8)	68	11	17.9	30.6	31.3	20.1	100	93	57	-	-
SS-208	60 RT	8+00	18.70-20.20	A-2-5(0)	47	NP	40.3	29.2	18.4	12.1	100	76	35	-	-

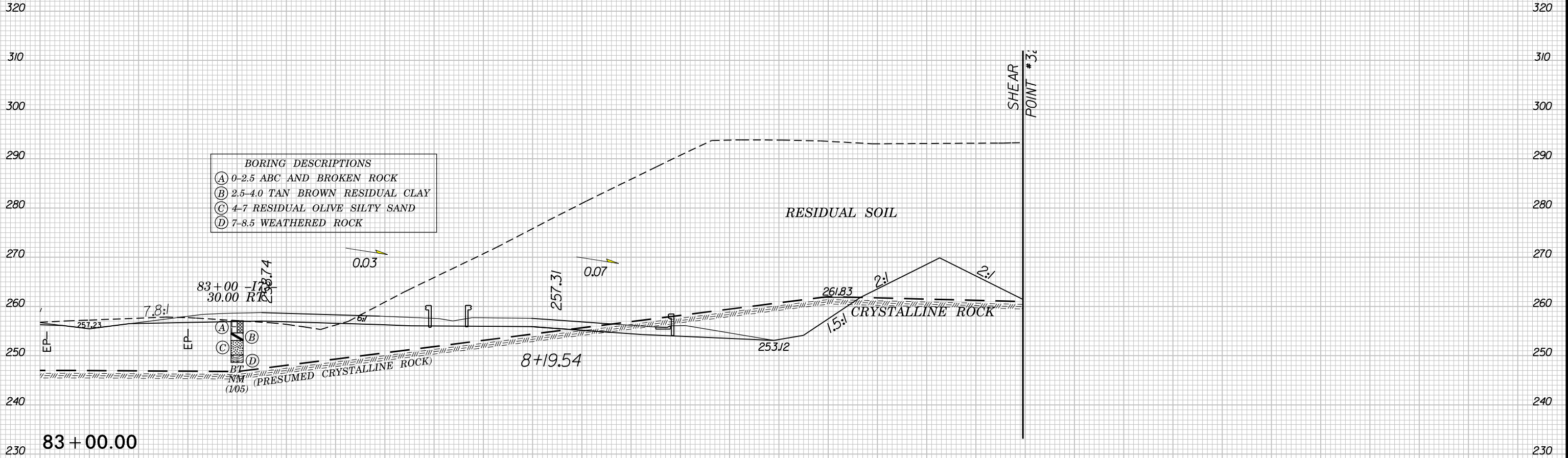


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

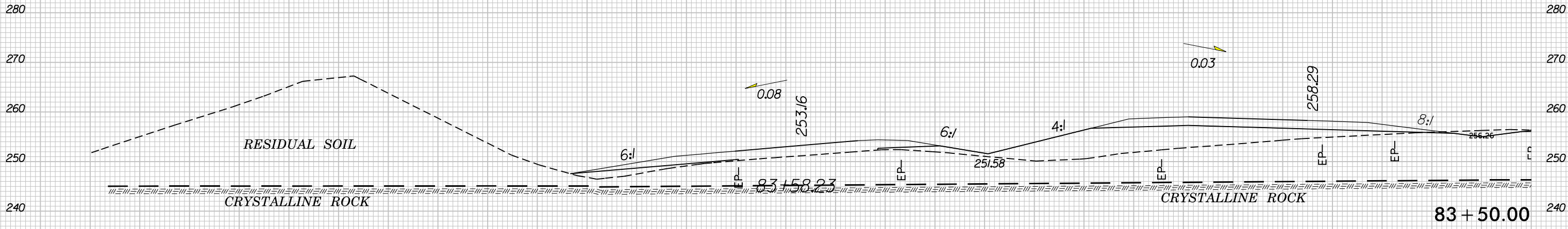


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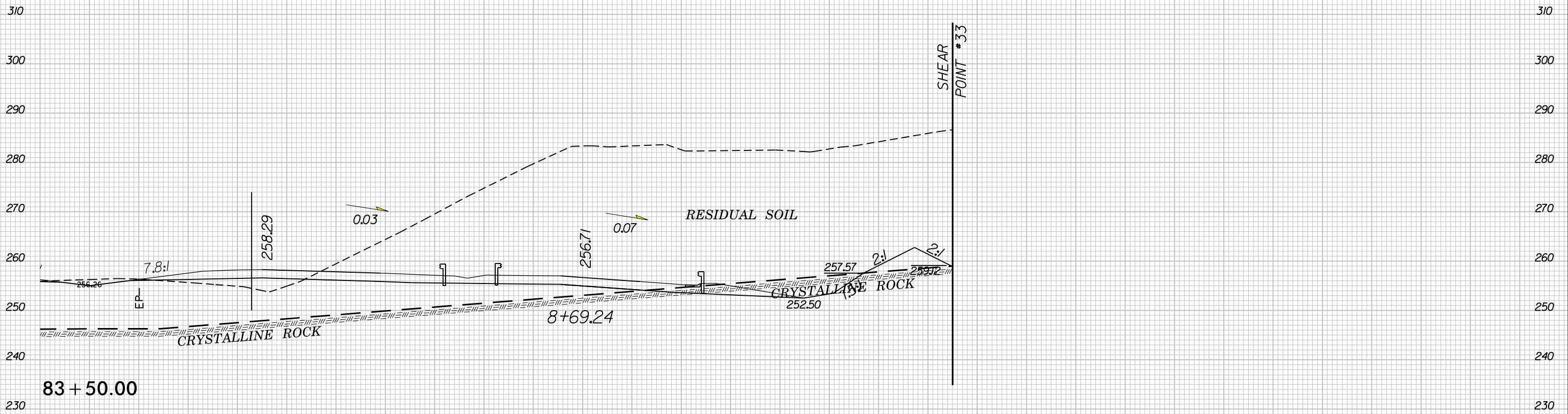


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40

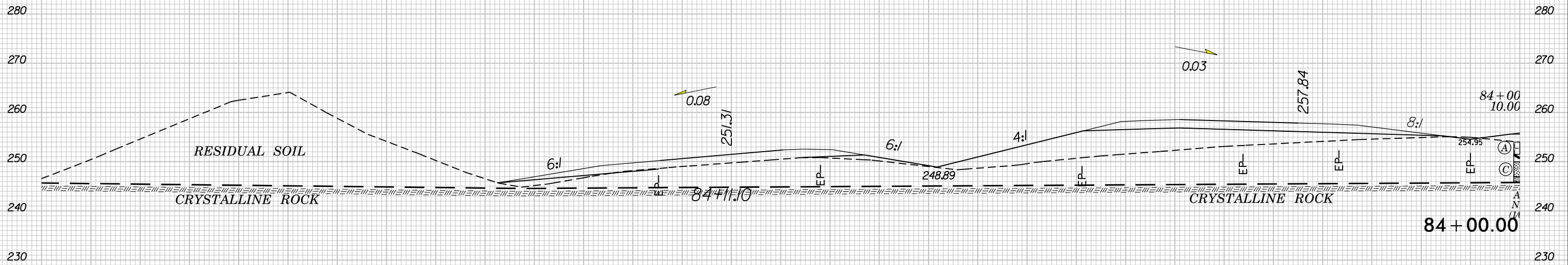


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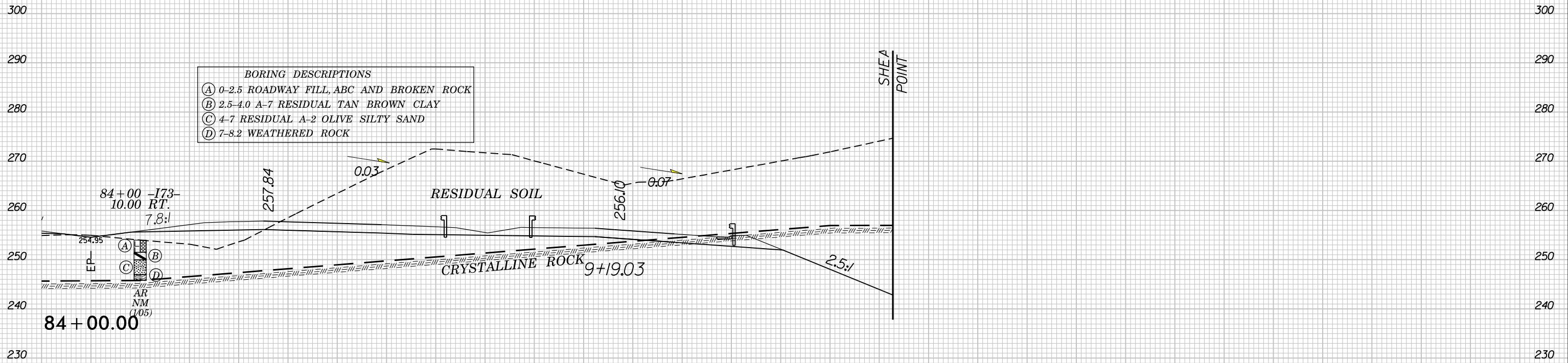


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

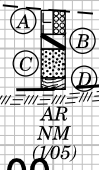


10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290



BORING DESCRIPTIONS
 (A) 0-2.5 ROADWAY FILL, ABC AND BROKEN ROCK
 (B) 2.5-4.0 A-7 RESIDUAL TAN BROWN CLAY
 (C) 4-7 RESIDUAL A-2 OLIVE SILTY SAND
 (D) 7-8.2 WEATHERED ROCK

84+00 -173-
10.00 RT.
7.8:1



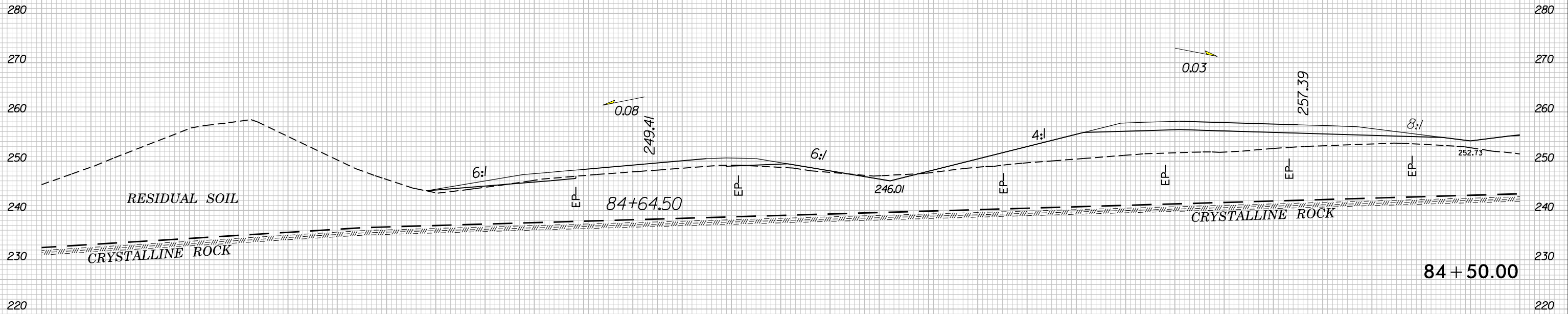
RESIDUAL SOIL

CRYSTALLINE ROCK 9+19.03

SHEA POINT

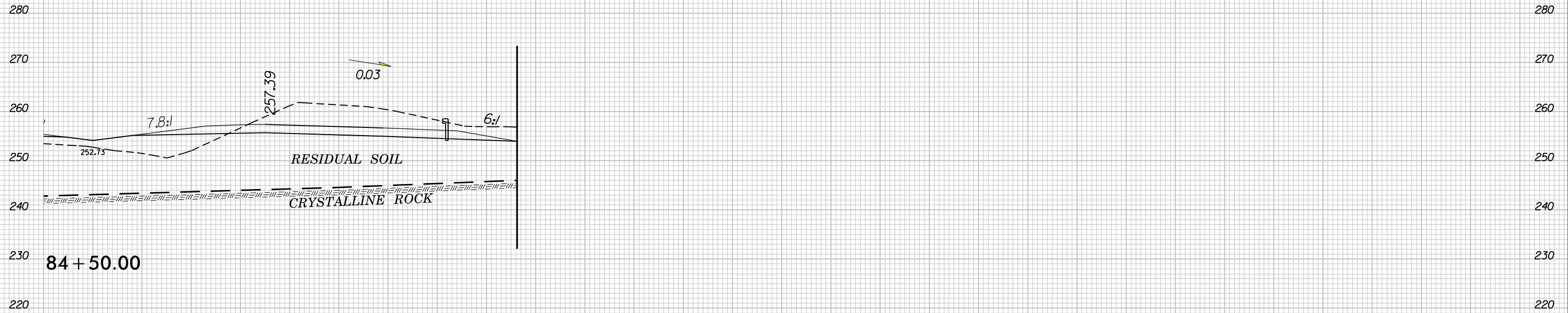
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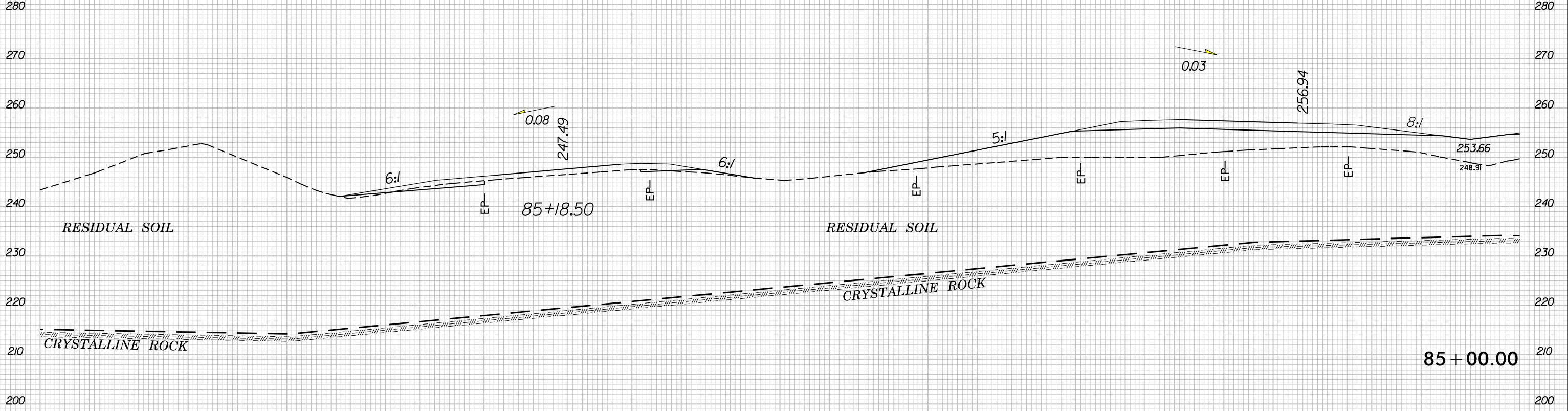
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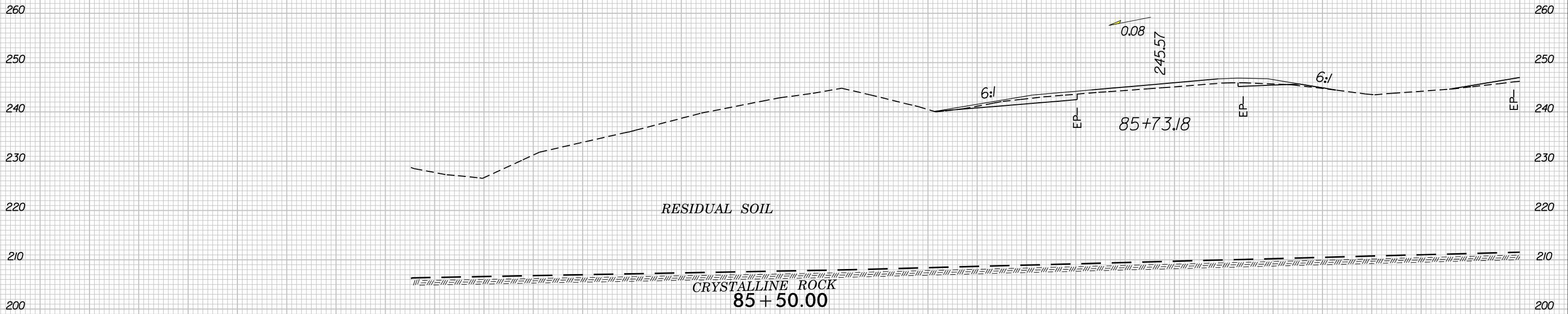
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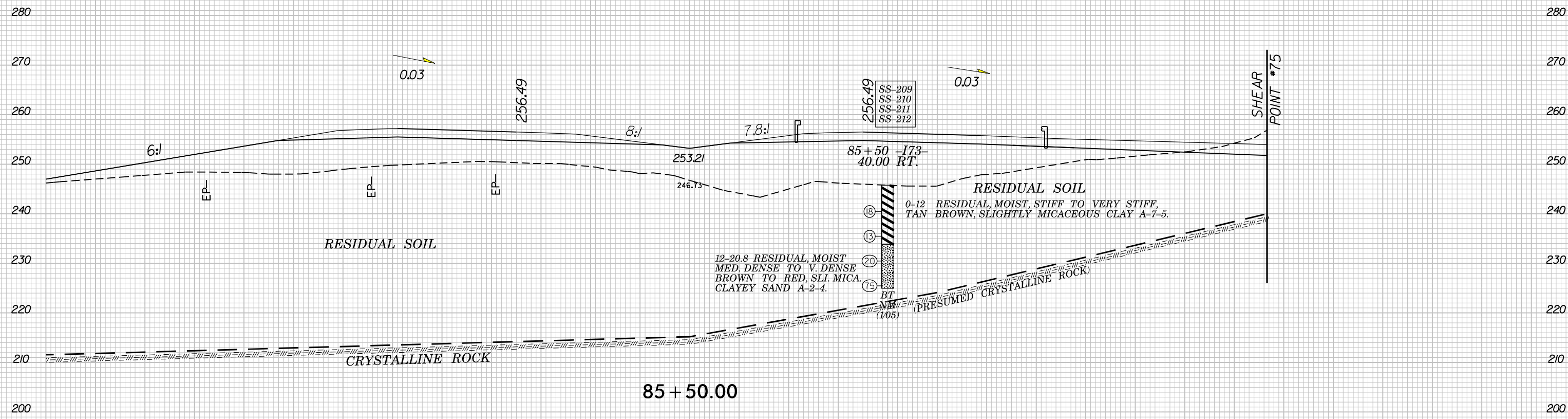


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8/23/99

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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-209	40 RT	85+50	4.30-5.80	A-7-6(15)	46	22	12.5	22.2	25.1	40.3	100	93	70	21.6	-
SS-210	40 RT	85+50	9.30-10.80	A-7-5(19)	57	25	7.5	28.2	32.1	32.2	100	98	71	-	-
SS-211	40 RT	85+50	14.30-15.80	A-2-4(0)	32	NP	30.4	44.5	19.0	6.0	100	84	33	-	-
SS-212	40 RT	85+50	19.30-20.80	A-2-4(0)	30	NP	33.0	41.9	21.0	4.0	98	80	31	-	-



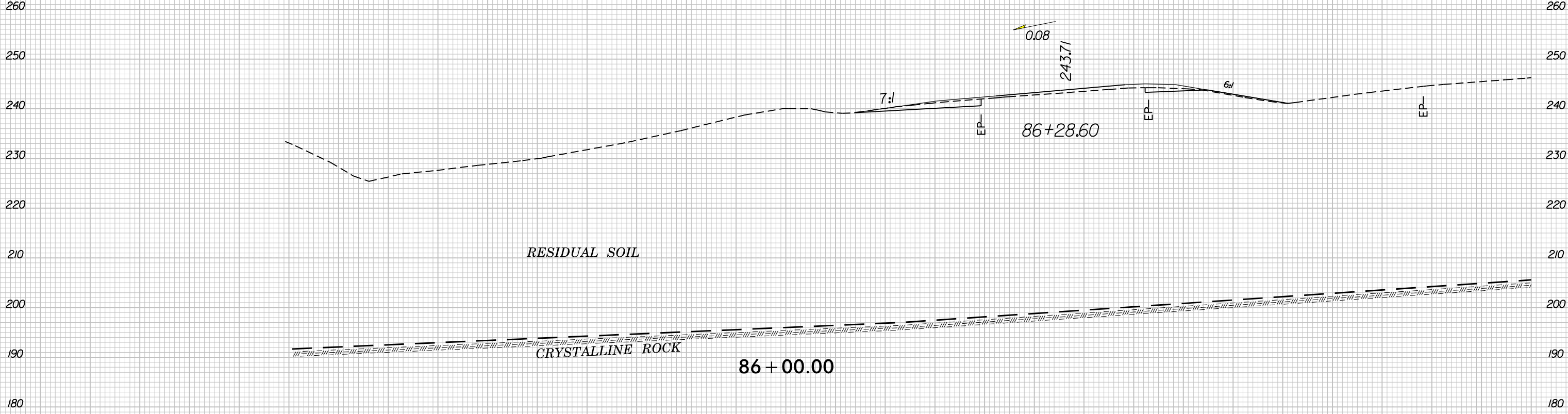
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-173-

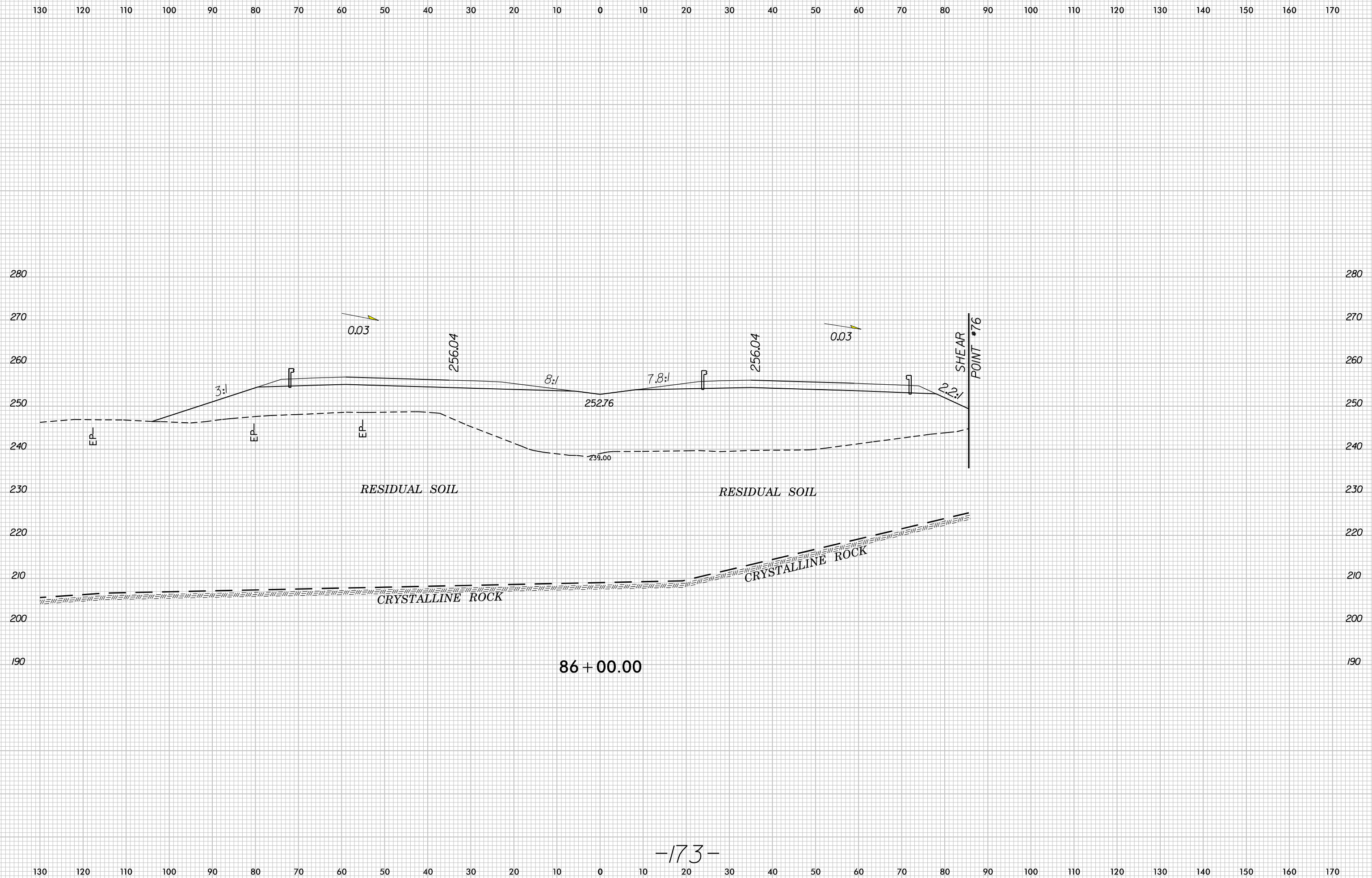
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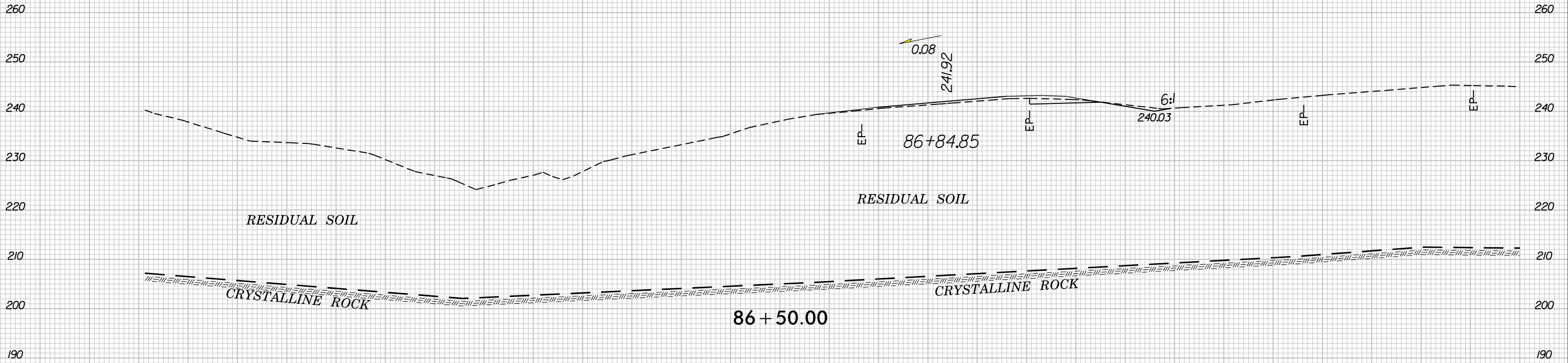
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86 + 00.00



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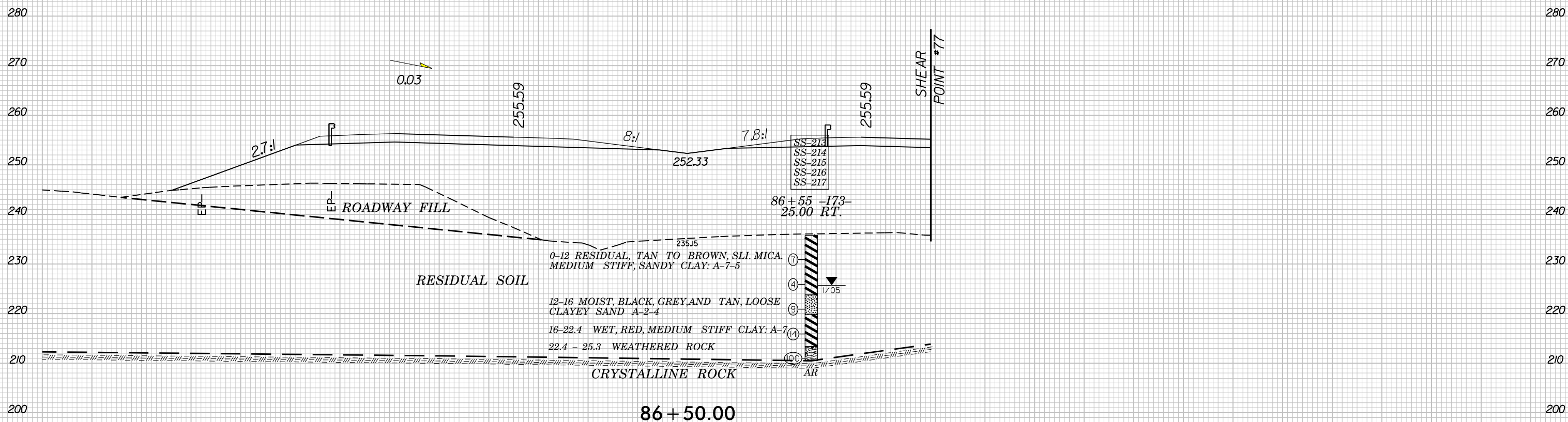


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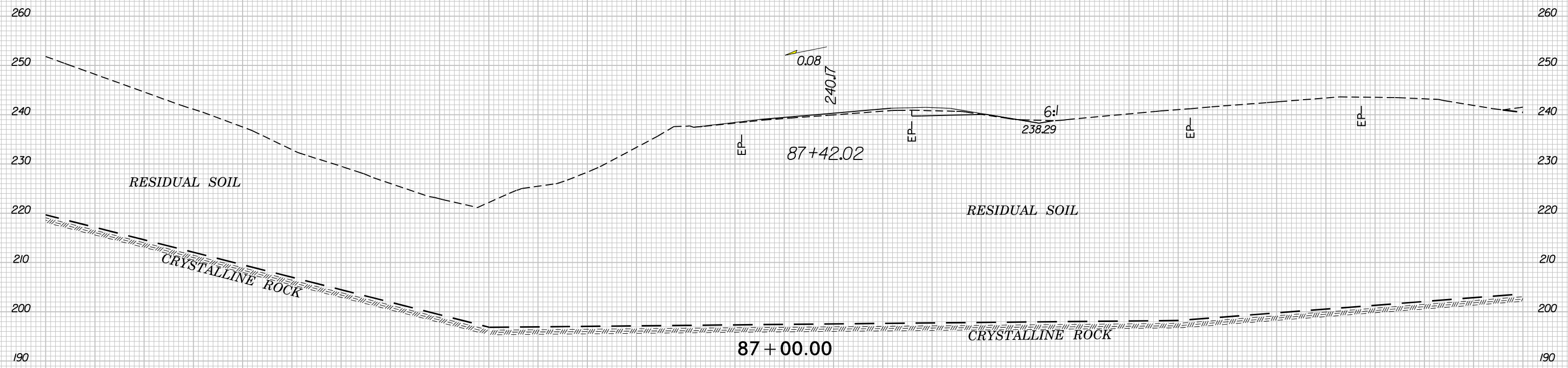
SOIL TEST RESULTS

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-213	25 RT	86+55	0.00-3.90	A-7-5(33)	75	37	9.3	15.3	31.1	44.3	98	93	78	-	-
SS-214	25 RT	86+55	3.90-5.40	A-7-5(8)	49	15	17.7	26.6	31.5	24.2	98	89	60	-	-
SS-215	25 RT	86+55	8.90-10.40	A-7-5(9)	51	16	17.7	27.8	32.3	22.2	100	90	61	-	-
SS-216	25 RT	86+55	13.90-15.40	A-2-4(0)	37	NP	35.0	36.9	24.1	4.0	94	74	33	-	-
SS-217	25 RT	86+55	18.90-20.40	A-7-5(11)	52	19	15.9	31.6	34.3	18.1	100	92	60	-	-



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

430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130



87 + 00.00

87 + 42.02

238.29

0.08

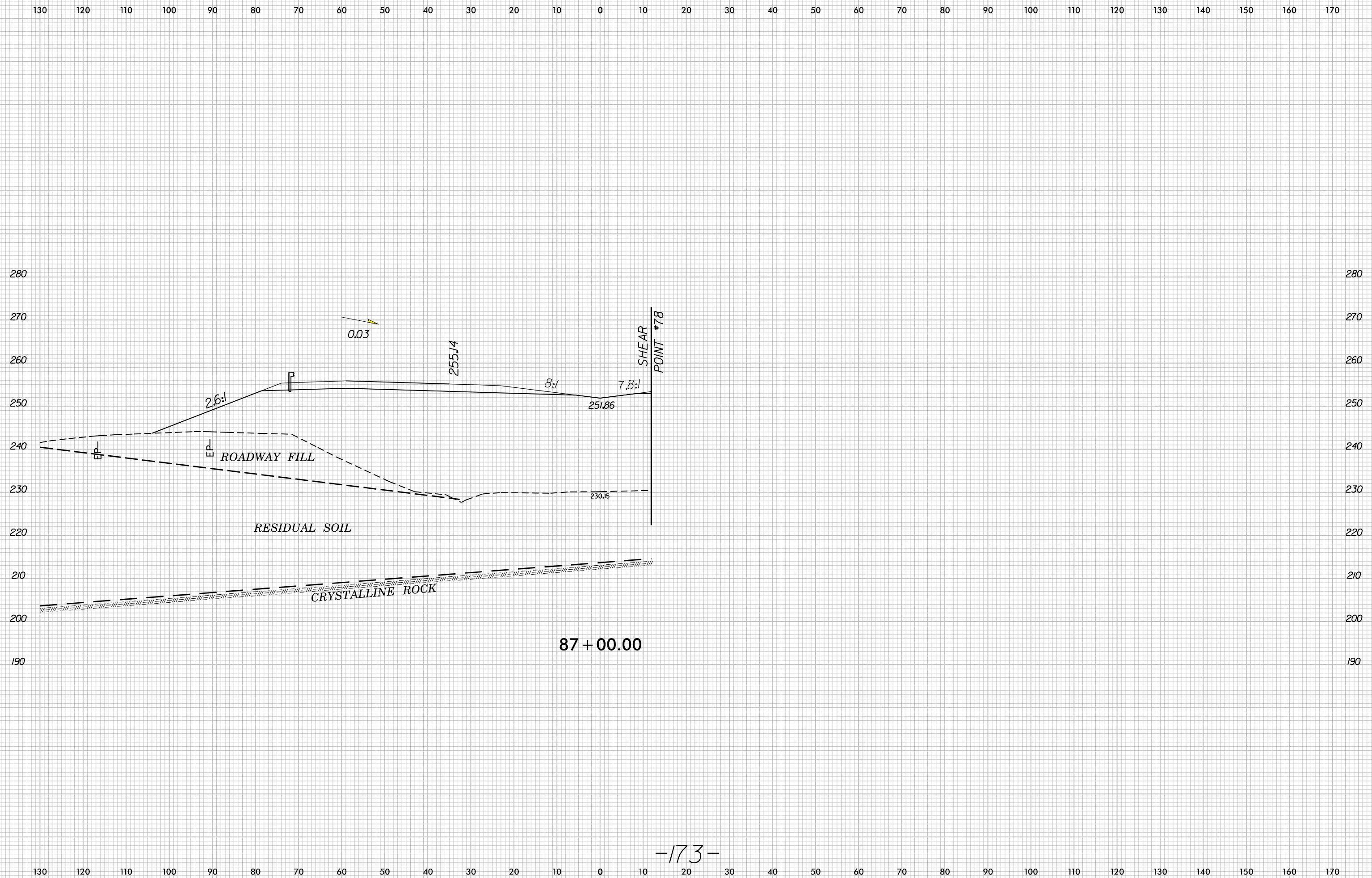
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RESIDUAL SOIL

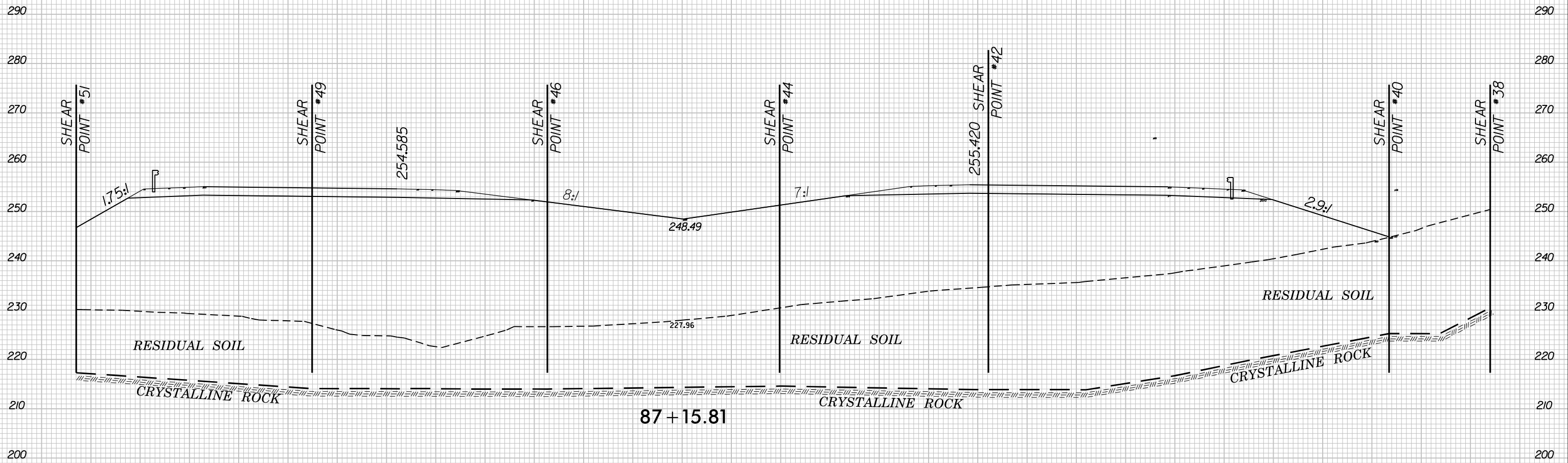
RESIDUAL SOIL

CRYSTALLINE ROCK

CRYSTALLINE ROCK



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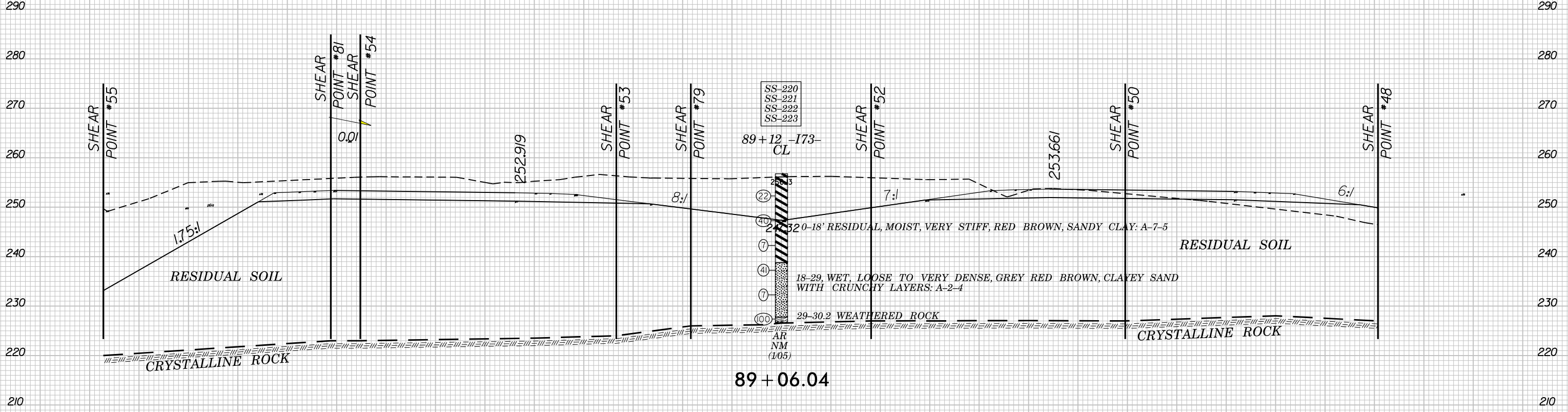
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SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							G. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-220	28 RT	89+1.2	3.50-5.00	A-7-5(1.2)	54	22	21.3	20.5	7.3	50.8	99	88	60	-	-
SS-221	28 RT	89+1.2	13.50-15.00	A-7-5(2.3)	62	26	9.1	17.7	30.5	42.7	100	95	78	-	-
SS-222	28 RT	89+1.2	23.50-25.00	A-2-4(0)	38	10	40.7	22.4	20.7	16.3	56	40	23	-	-
SS-223	28 RT	89+1.2	28.50-30.00	A-2-4(0)	37	3	38.8	26.0	20.9	14.2	73	54	29	-	-



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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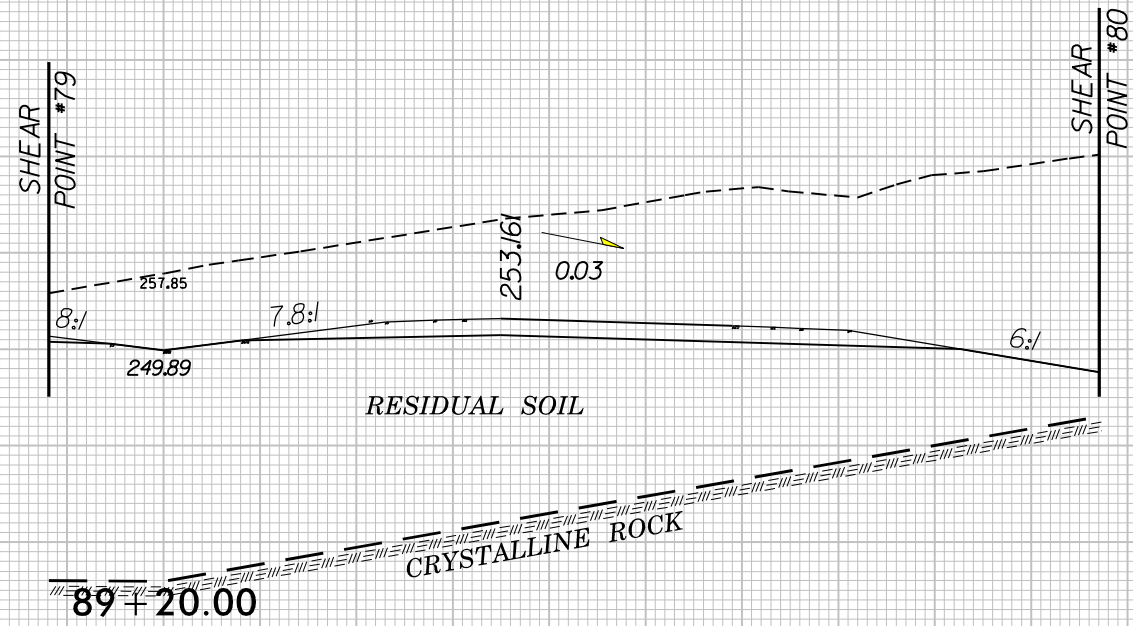
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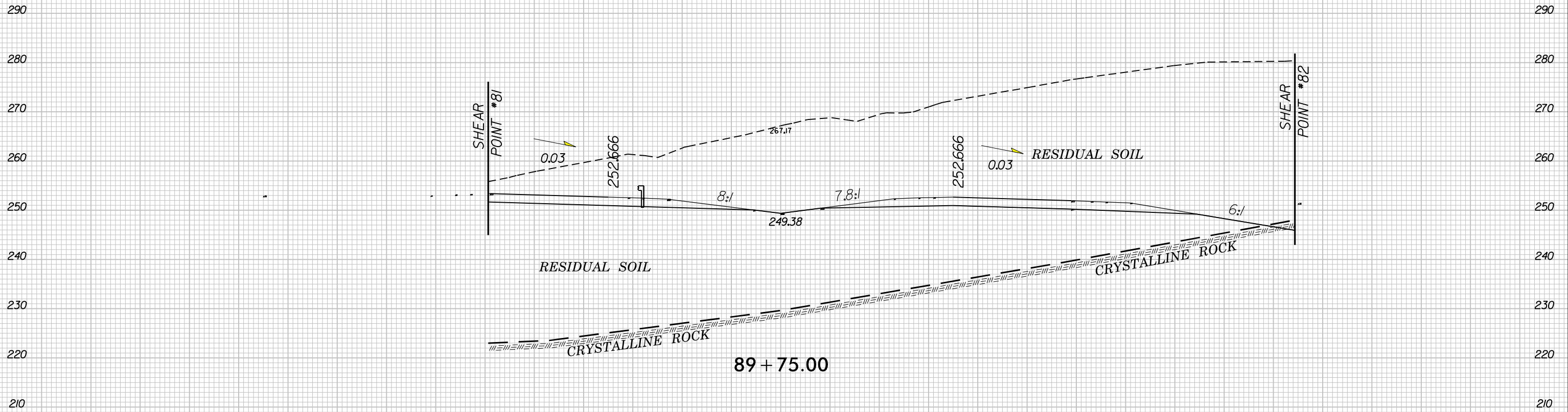
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89+20.00

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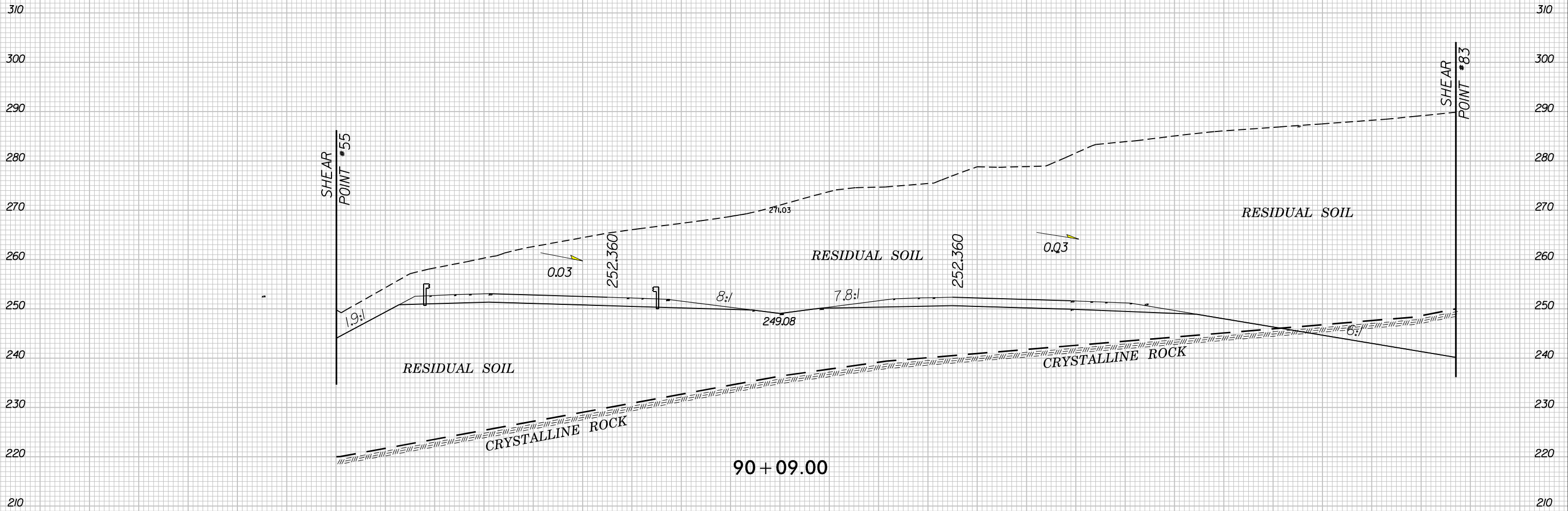
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89 + 75.00

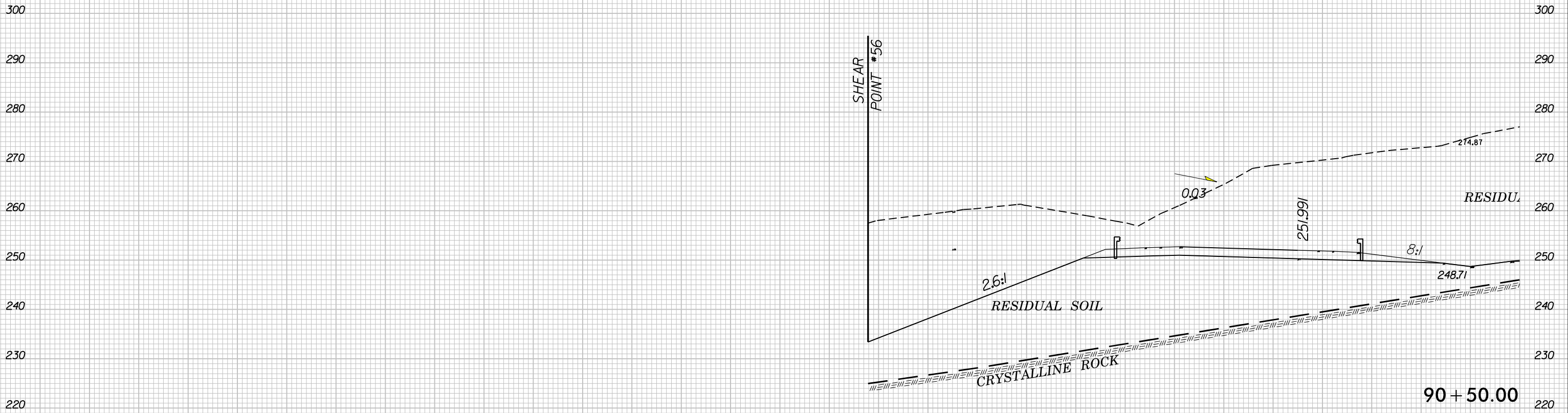
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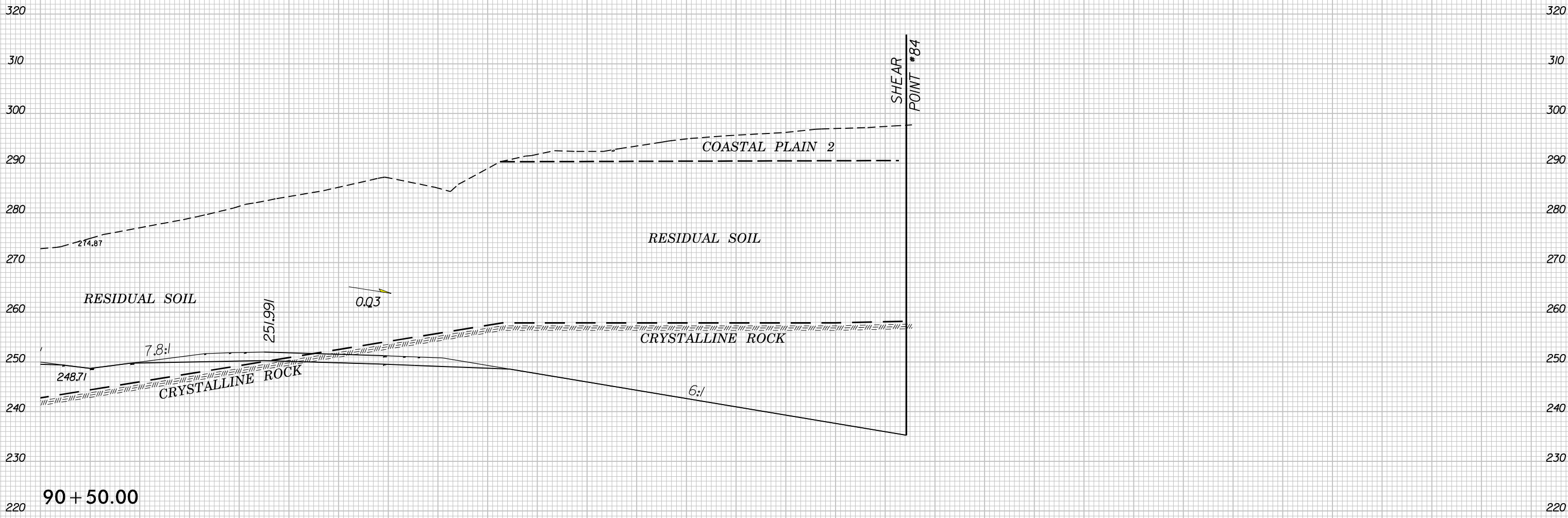
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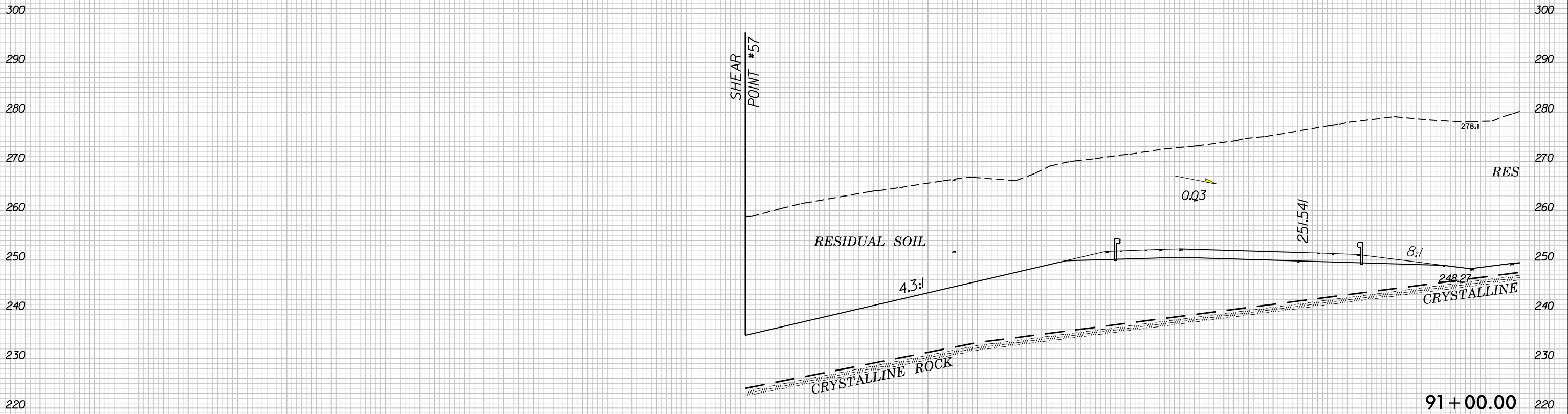
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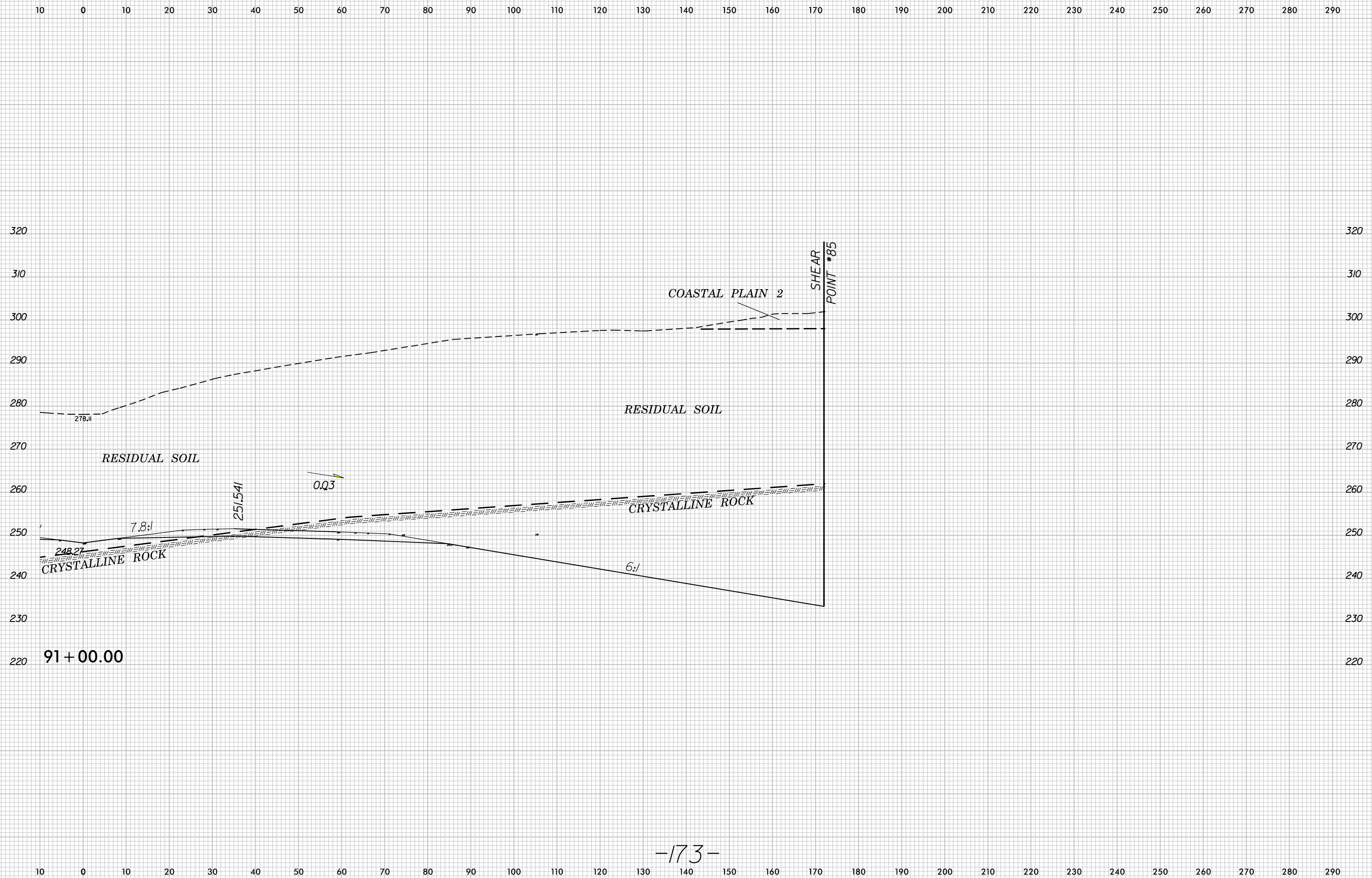
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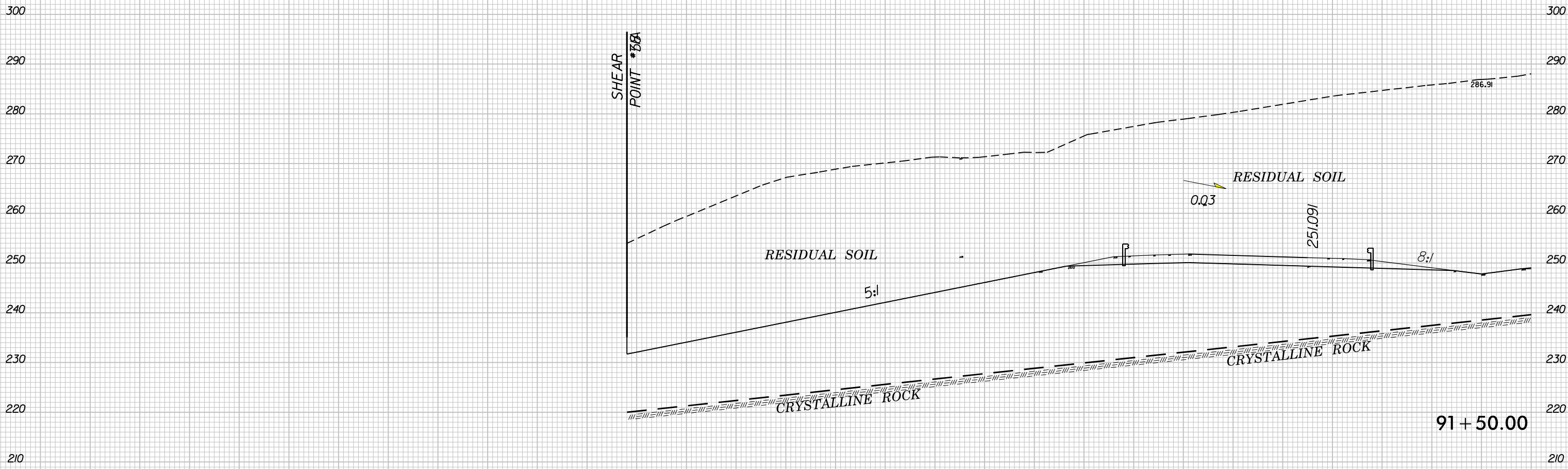


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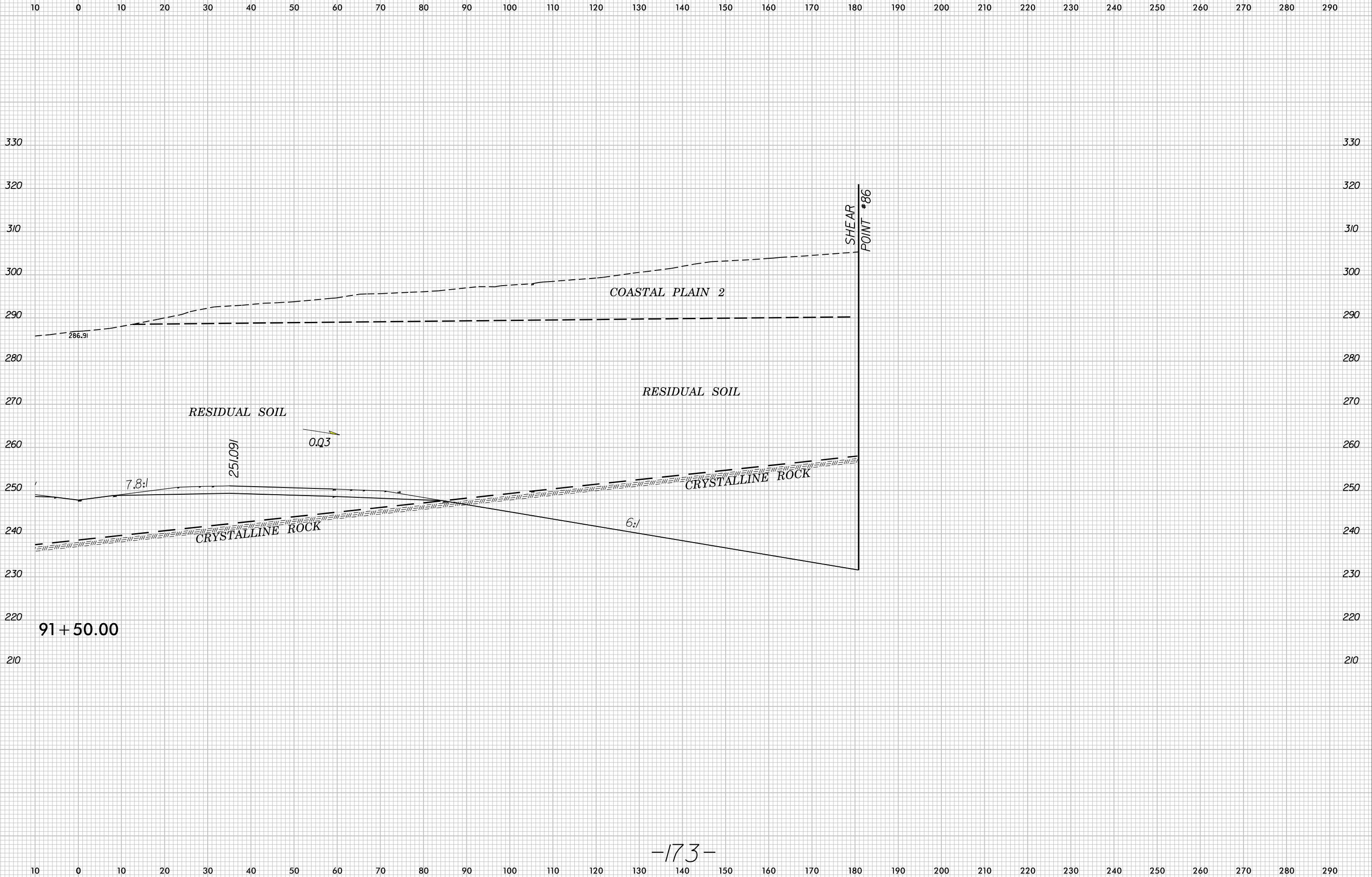
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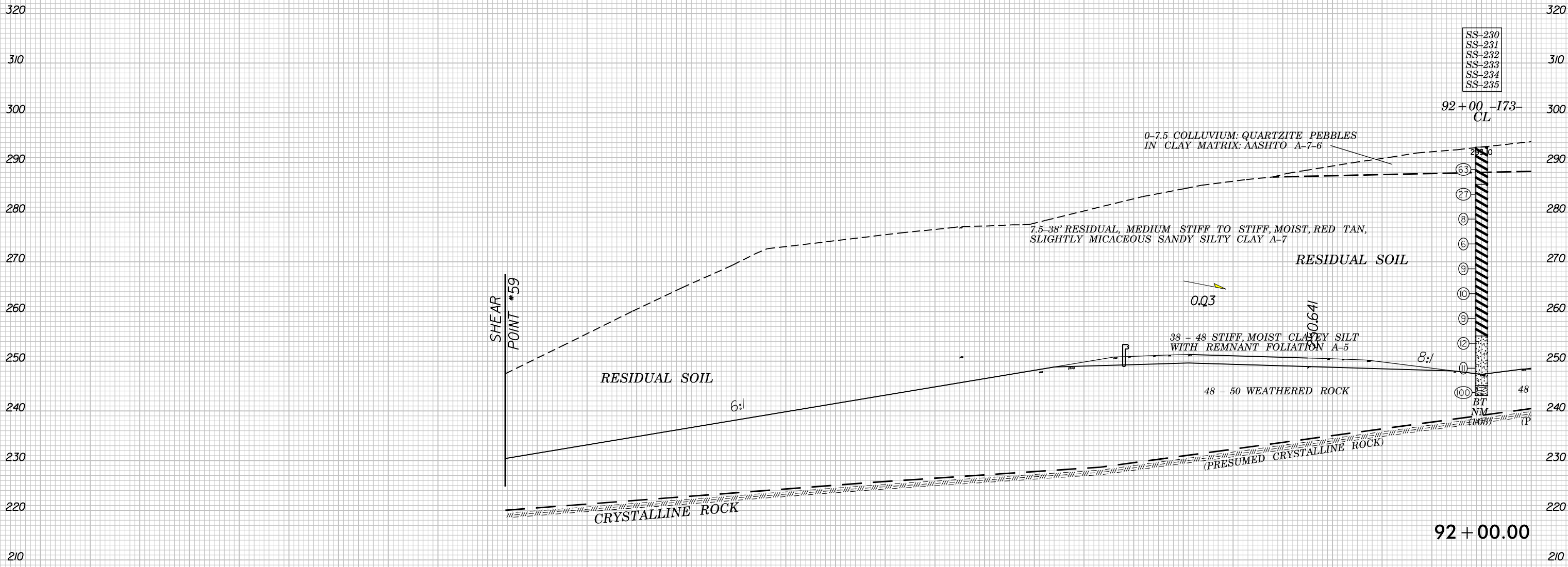


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-230	CL	92+00	3.50-5.00	A-7-6(5)	43	21	40.5	18.1	3.0	38.3	100	71	43	-	-
SS-231	CL	92+00	8.50-9.50	A-7-5(40)	82	37	4.2	13.1	14.1	68.5	100	98	86	-	-
SS-232	CL	92+00	18.50-20.00	A-7-5(17)	62	22	15.3	18.3	22.0	44.4	100	92	70	-	-
SS-233	CL	92+00	28.50-30.00	A-7-5(17)	69	14	6.0	27.2	32.5	34.3	100	98	76	-	-
SS-234	CL	92+00	38.50-40.00	A-5(6)	56	8	15.7	33.3	28.8	22.2	100	93	59	-	-
SS-235	CL	92+00	48.50-50.00	A-4(0)	36	NP	22.2	48.4	21.4	8.1	100	88	40	-	-



290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

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-230	CL	92+00	3.50-5.00	A-7-6(5)	43	21	40.5	18.1	3.0	38.3	100	71	43	-	-
SS-231	CL	92+00	8.50-9.50	A-7-5(40)	82	37	4.2	13.1	14.1	68.5	100	98	86	-	-
SS-232	CL	92+00	18.50-20.00	A-7-5(17)	62	22	15.3	18.3	22.0	44.4	100	92	70	-	-
SS-233	CL	92+00	28.50-30.00	A-7-5(17)	69	14	6.0	27.2	32.5	34.3	100	98	76	-	-
SS-234	CL	92+00	38.50-40.00	A-5(6)	56	8	15.7	33.3	28.8	22.2	100	93	59	-	-
SS-235	CL	92+00	48.50-50.00	A-4(0)	36	NP	22.2	48.4	21.4	8.1	100	88	40	-	-

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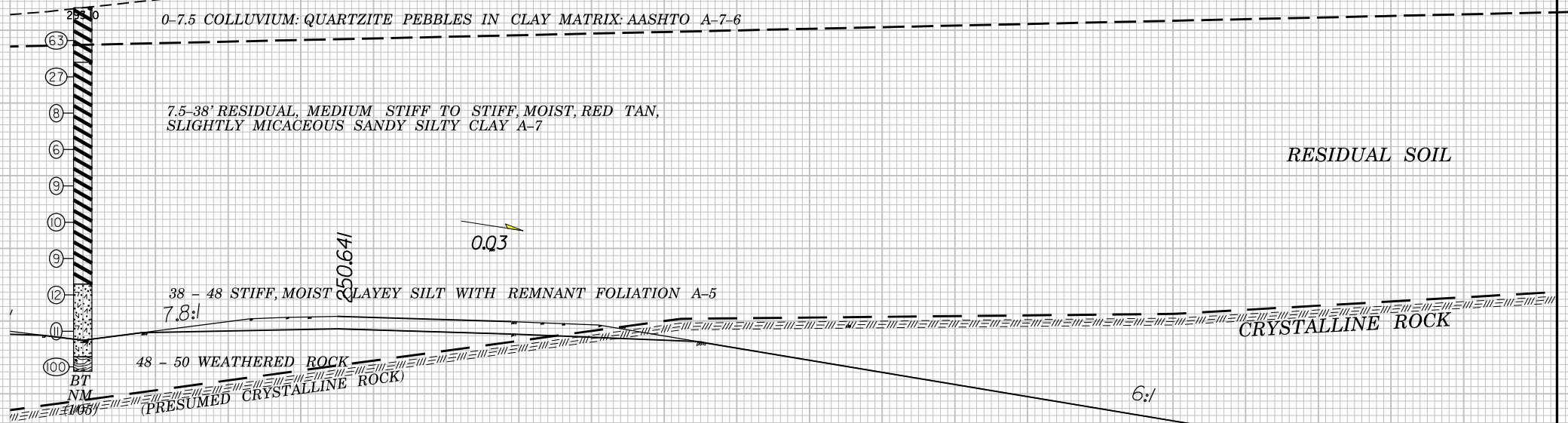
220

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210

SS-230
SS-231
SS-232
SS-233
SS-234
SS-235

92+00 -173-
CL



SHEAR
POINT #87

COASTAL PLAIN 2

0-7.5 COLLUVIUM: QUARTZITE PEBBLES IN CLAY MATRIX: AASHTO A-7-6

7.5-38' RESIDUAL, MEDIUM STIFF TO STIFF, MOIST, RED TAN, SLIGHTLY MICACEOUS SANDY SILTY CLAY A-7

RESIDUAL SOIL

38 - 48 STIFF, MOIST CLAYEY SILT WITH REMNANT FOLIATION A-5

CRYSTALLINE ROCK

48 - 50 WEATHERED ROCK

(PRESUMED CRYSTALLINE ROCK)

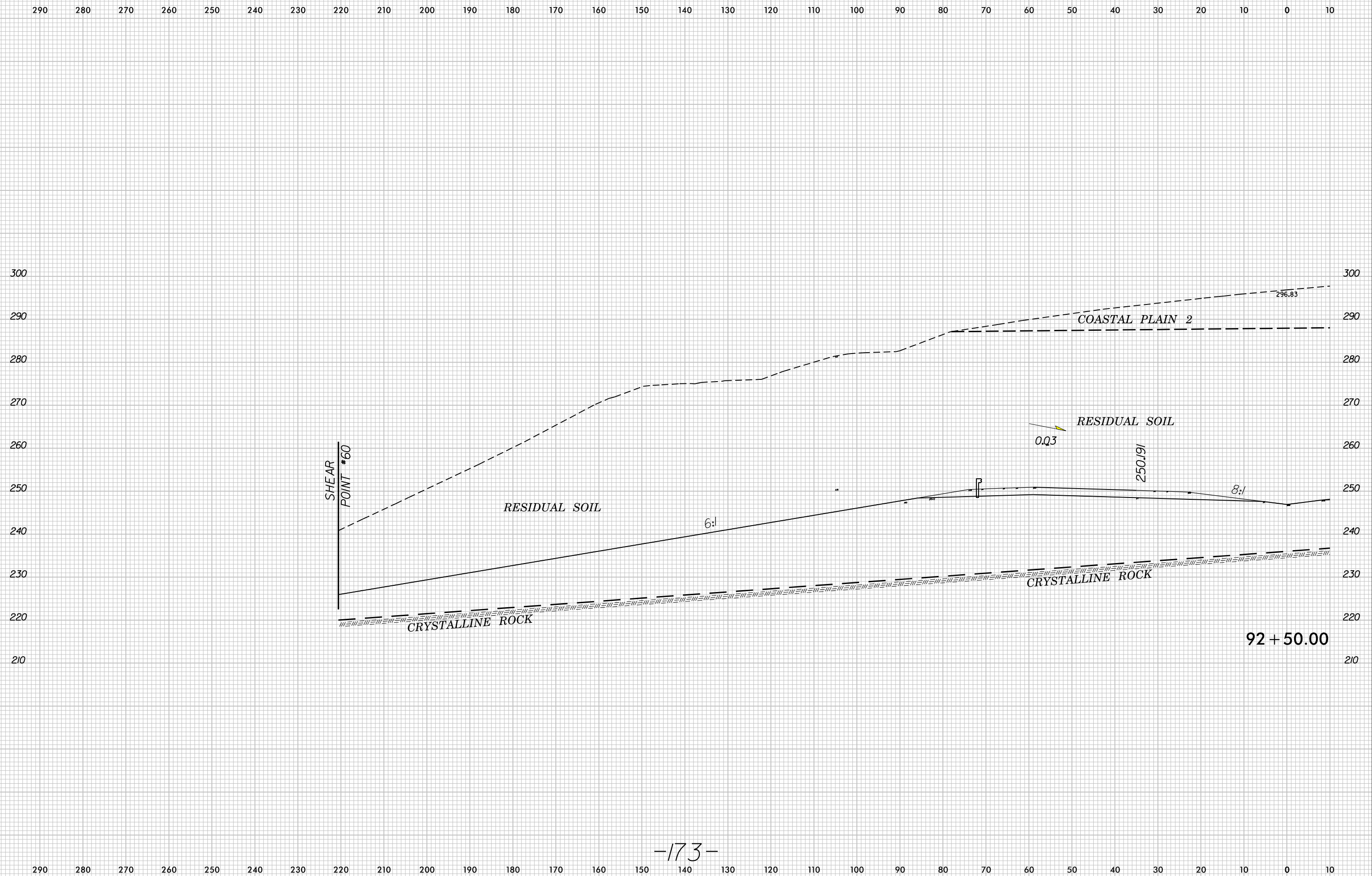
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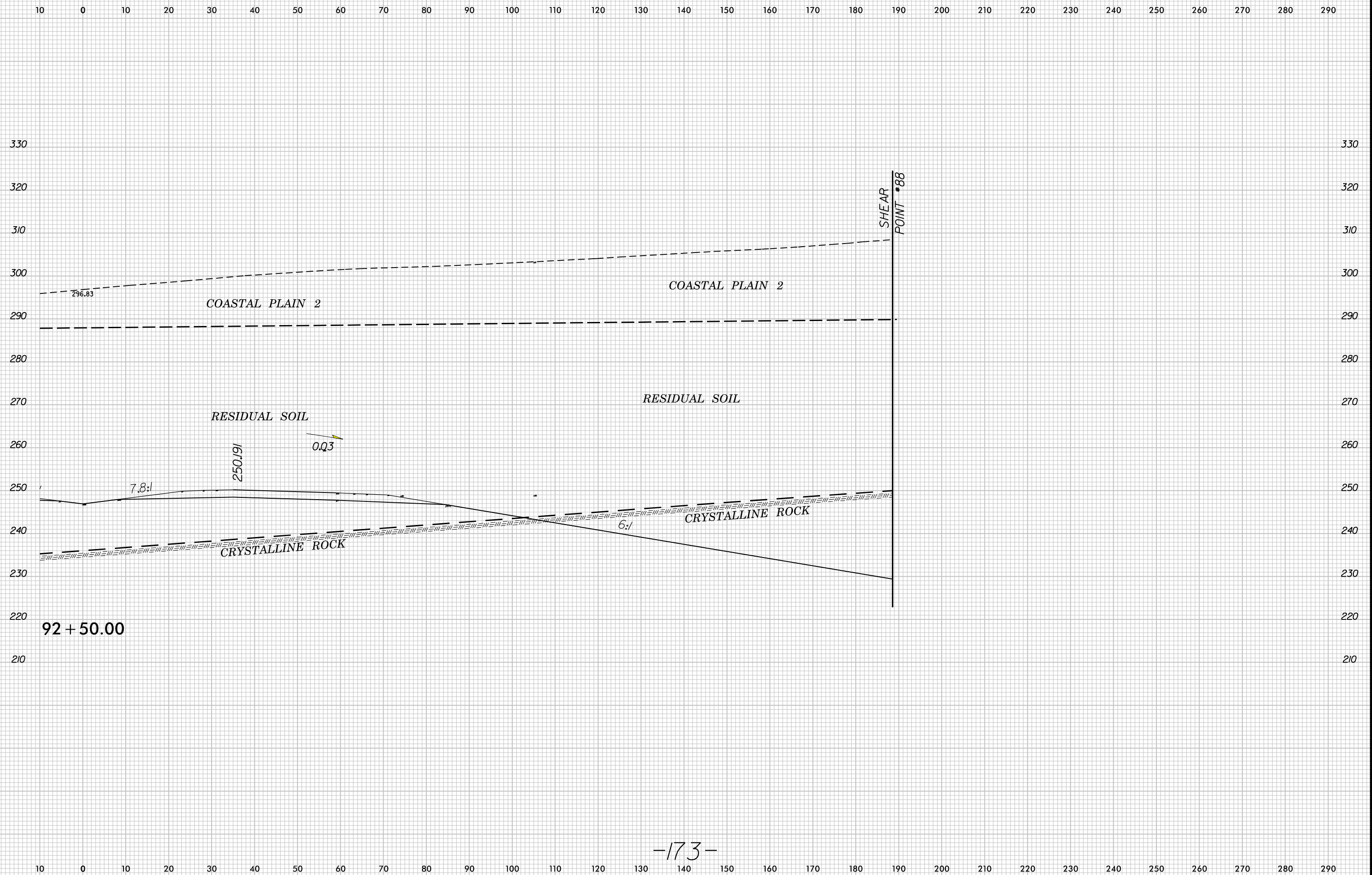
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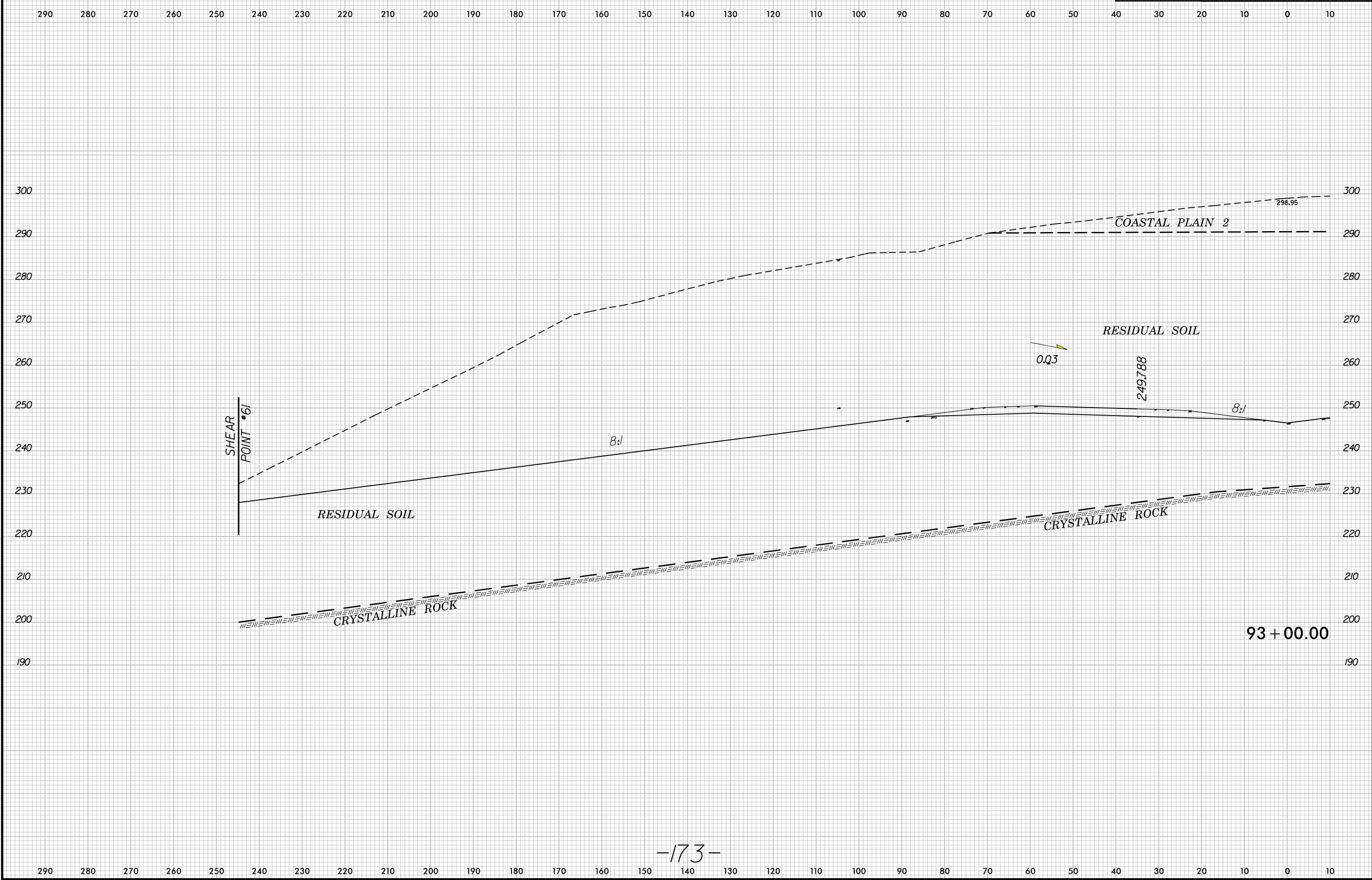
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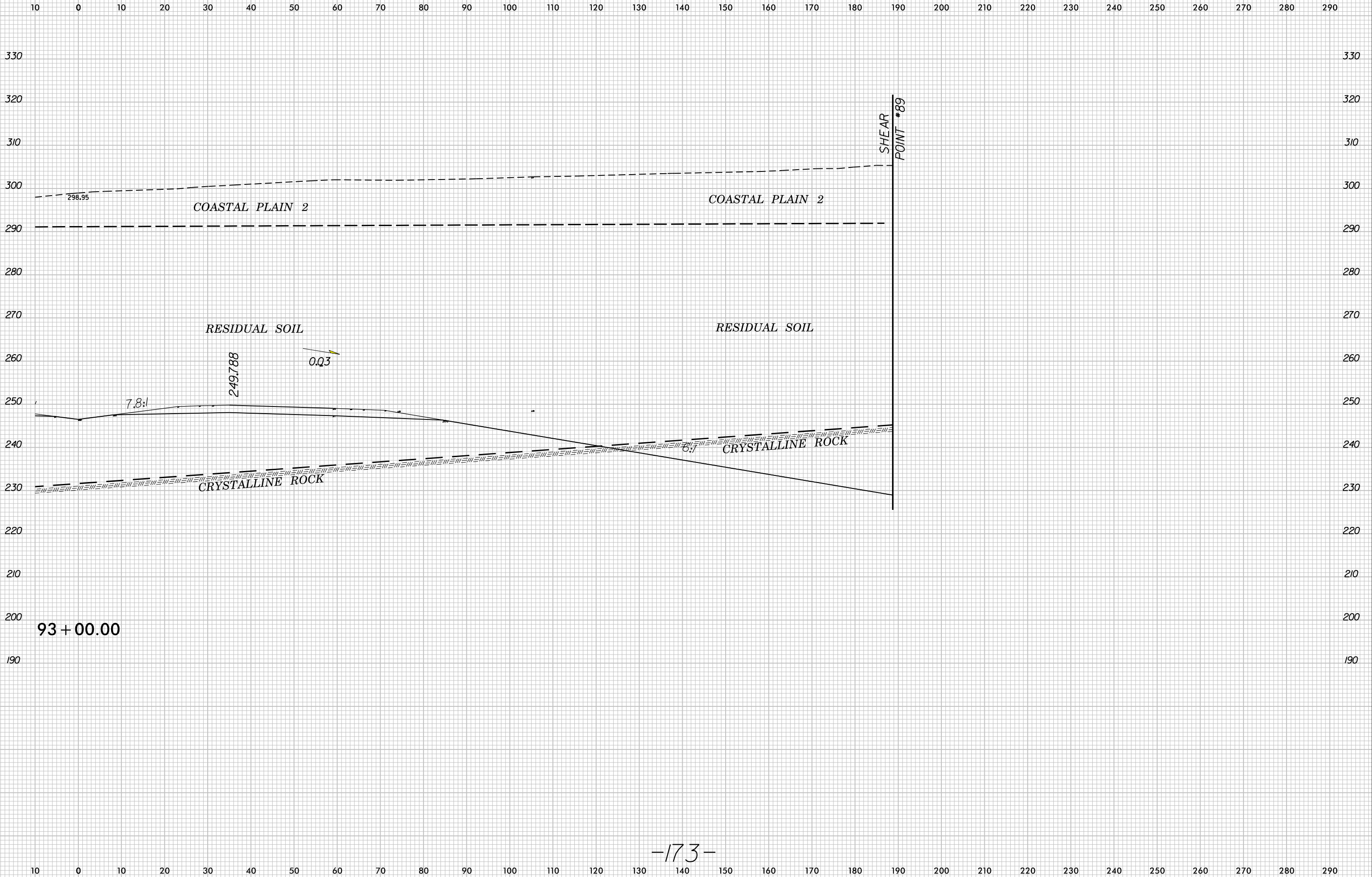
92+00.00

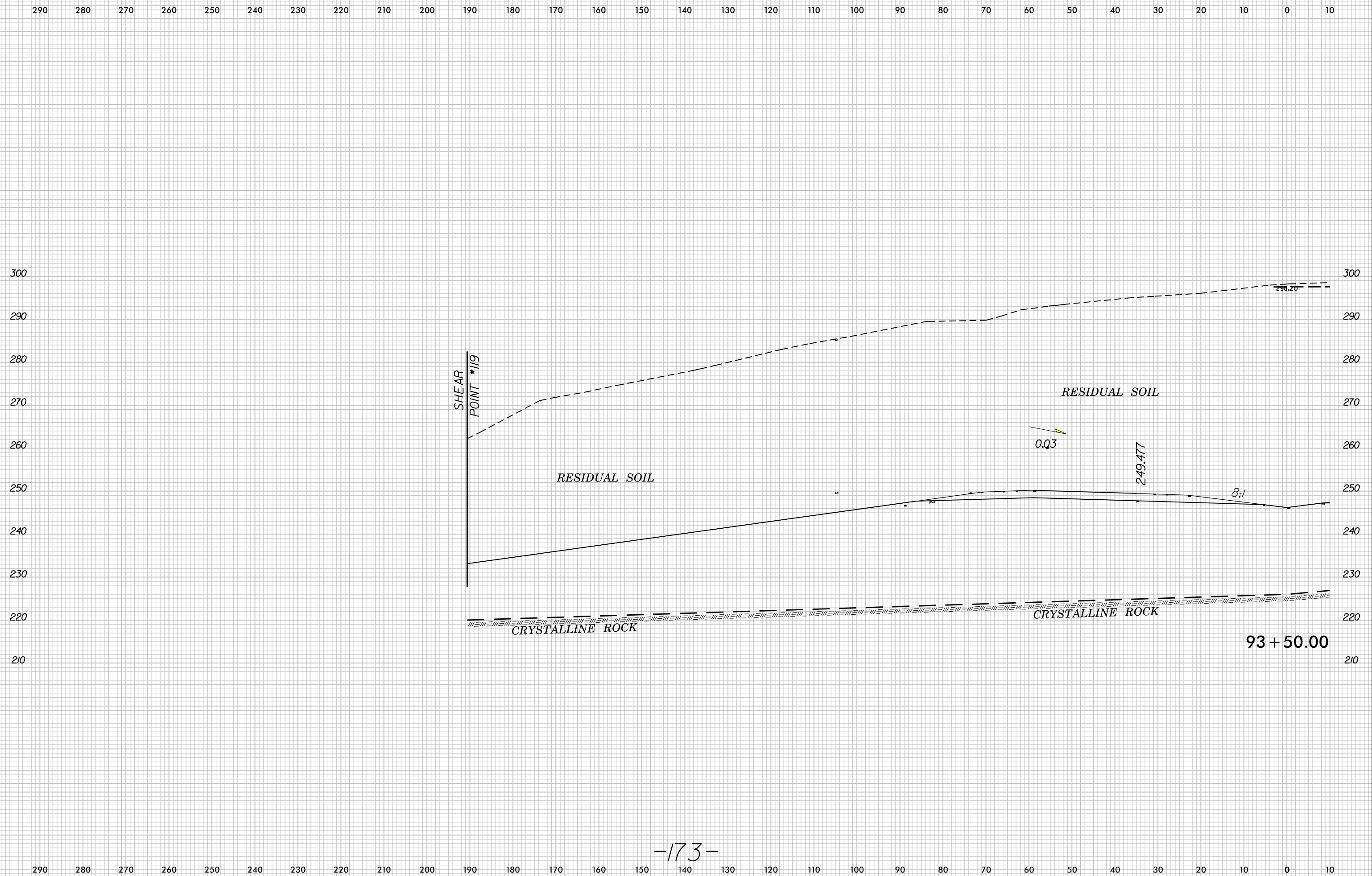
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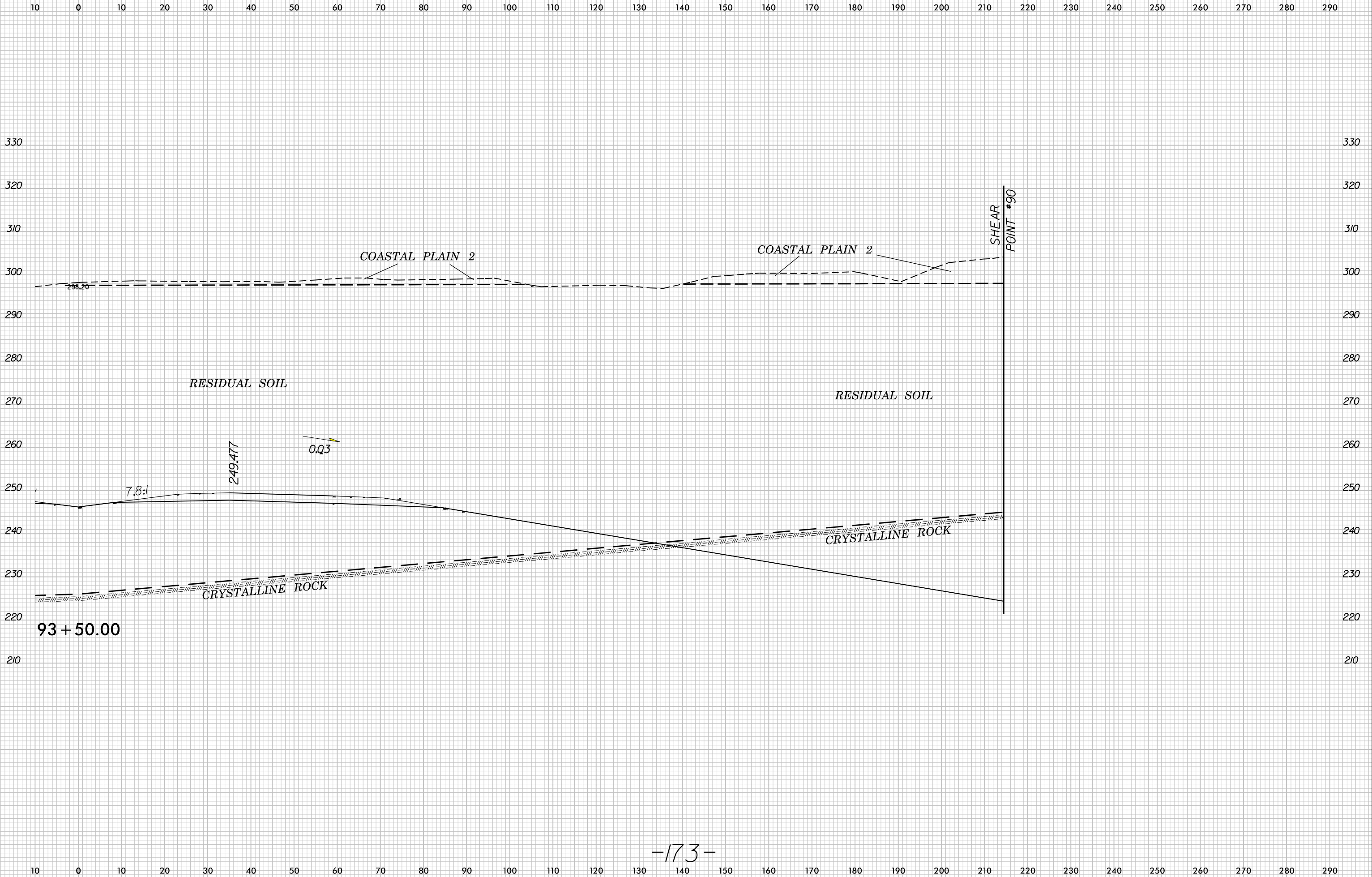






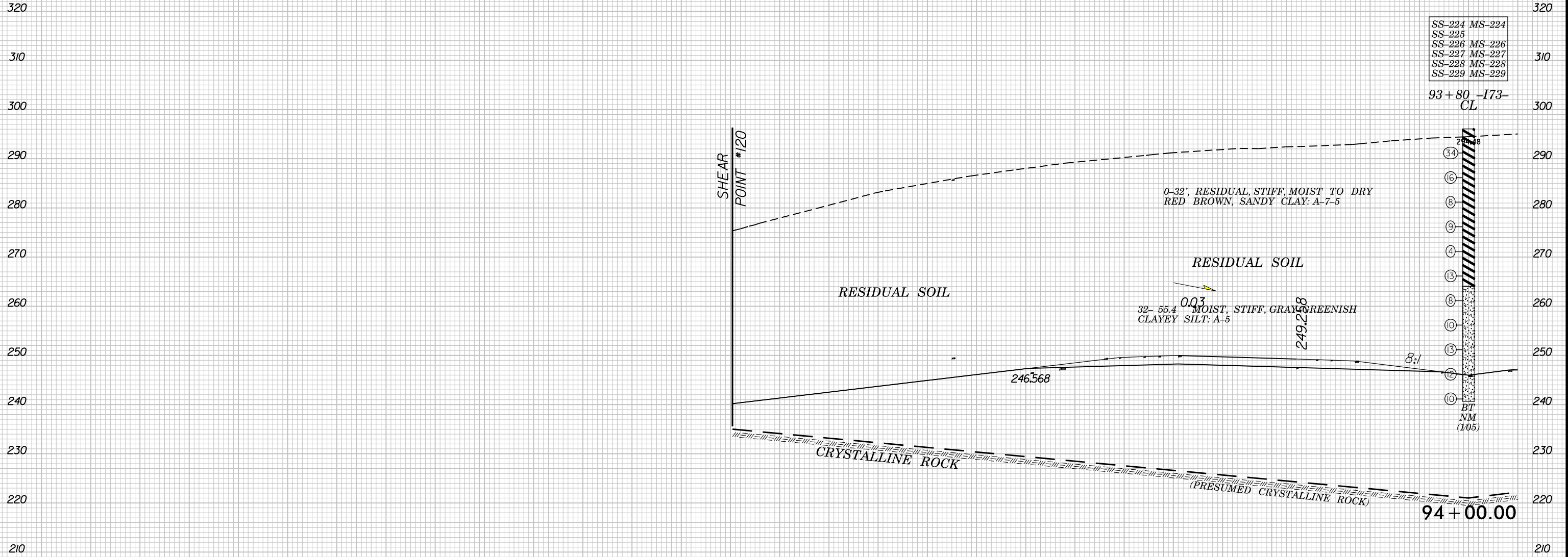






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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-224	CL	93+80	3.90-5.40	A-7-5(28)	69	29	12.9	8.7	5.7	72.7	100	91	80	-	-
SS-225	CL	93+80	8.90-10.40	A-7-6(11)	48	21	21.0	24.8	19.8	34.3	97	83	59	28.1	-
SS-226	CL	93+80	18.90-20.40	A-7-5(19)	62	19	5.7	25.9	34.1	34.3	100	97	77	38.0	-
SS-227	CL	93+80	28.90-30.40	A-7-5(15)	66	13	3.2	35.8	32.7	28.3	100	99	74	33.5	-
SS-228	CL	93+80	38.90-40.40	A-5(7)	52	6	8.7	31.1	33.9	26.3	100	95	70	33.0	-
SS-229	CL	93+80	48.90-50.40	A-5(2)	52	6	29.1	33.3	21.4	16.2	100	84	46	27.6	-

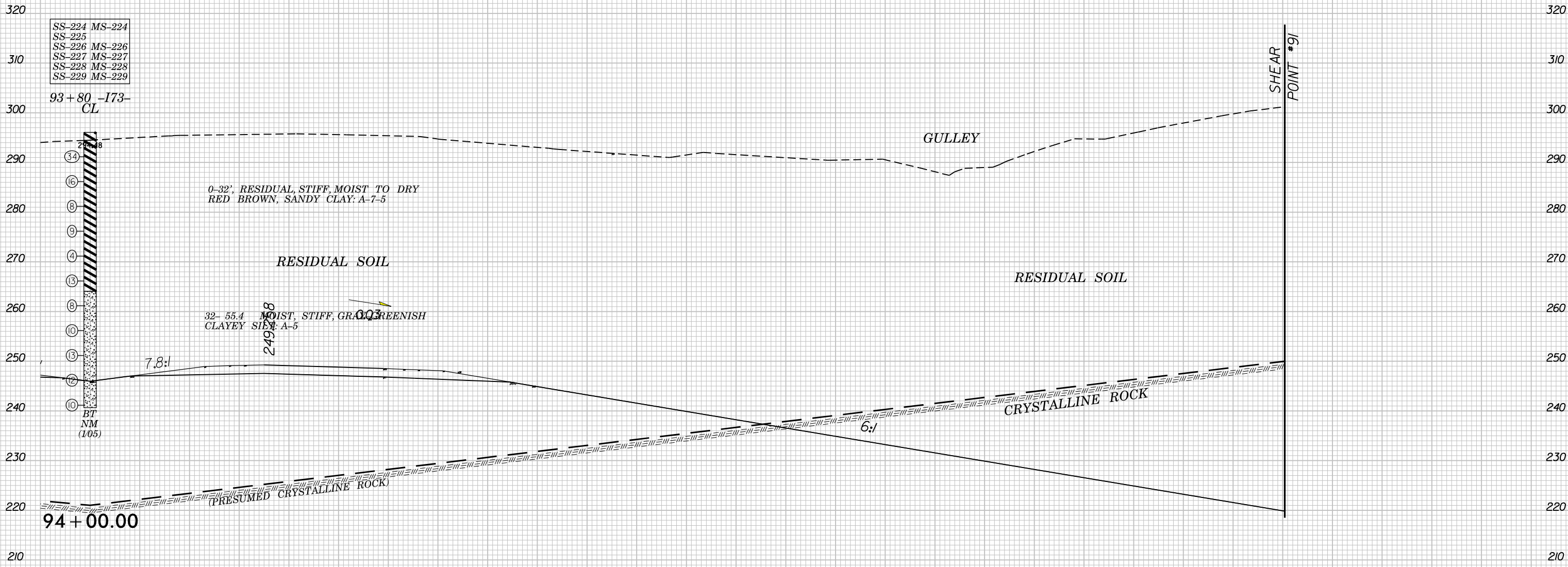


290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

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-224	CL	93+80	3.90-5.40	A-7-5(28)	69	29	12.9	8.7	5.7	72.7	100	91	80	-	-
SS-225	CL	93+80	8.90-10.40	A-7-6(11)	48	21	21.0	24.8	19.8	34.3	97	83	59	28.1	-
SS-226	CL	93+80	18.90-20.40	A-7-5(19)	62	19	5.7	25.9	34.1	34.3	100	97	77	38.0	-
SS-227	CL	93+80	28.90-30.40	A-7-5(15)	66	13	3.2	35.8	32.7	28.3	100	99	74	33.5	-
SS-228	CL	93+80	38.90-40.40	A-5(7)	52	6	8.7	31.1	33.9	26.3	100	95	70	33.0	-
SS-229	CL	93+80	48.90-50.40	A-5(2)	52	6	29.1	33.3	21.4	16.2	100	84	46	27.6	-



- SS-224 MS-224
- SS-225
- SS-226 MS-226
- SS-227 MS-227
- SS-228 MS-228
- SS-229 MS-229

93+80 -173-
CL

0-32', RESIDUAL, STIFF, MOIST TO DRY
RED BROWN, SANDY CLAY: A-7-5

RESIDUAL SOIL

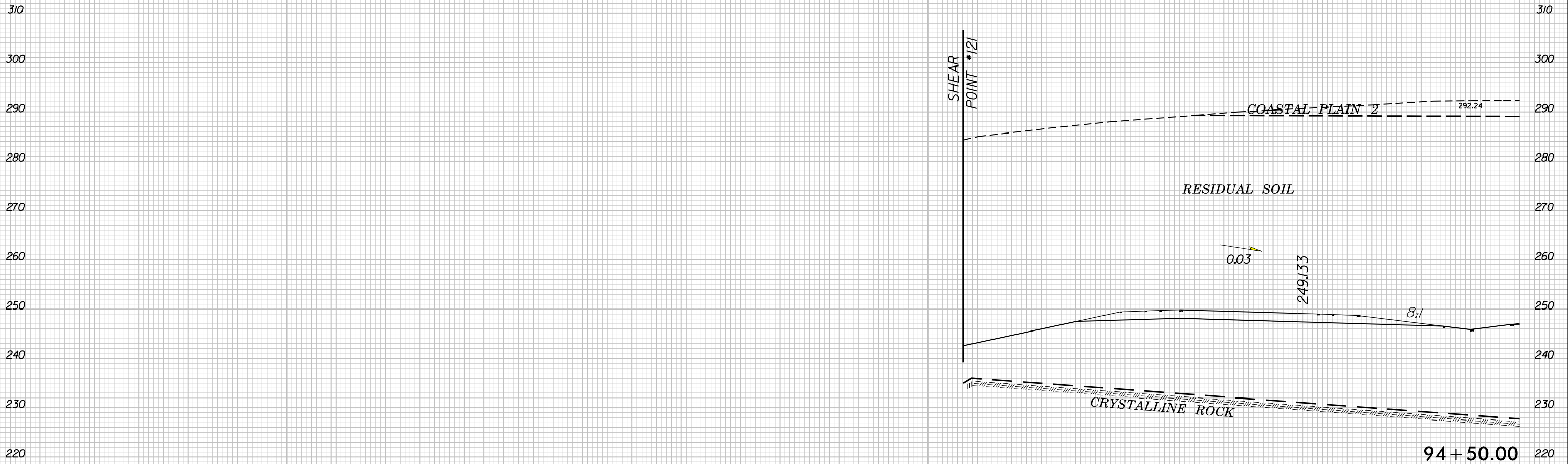
32- 55.4' MOIST, STIFF, GRAY GREENISH
CLAYEY SILT: A-5

RESIDUAL SOIL

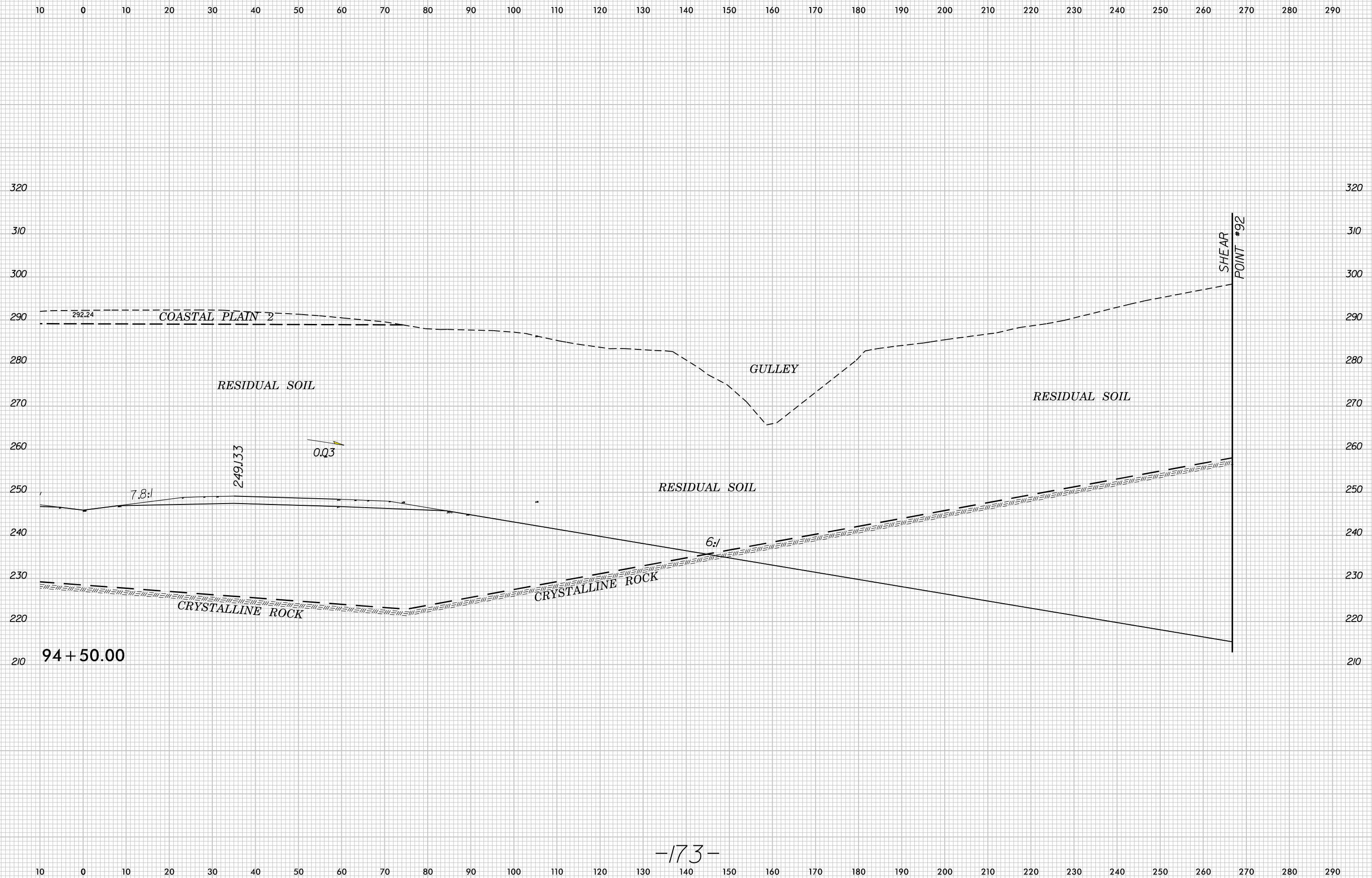
CRYSTALLINE ROCK

94+00.00

290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



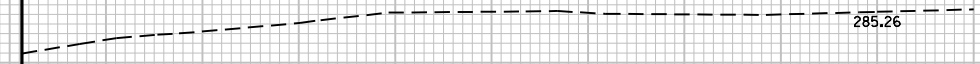


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210

SHEAR
POINT *122



RESIDUAL SOIL

0.03

249.00

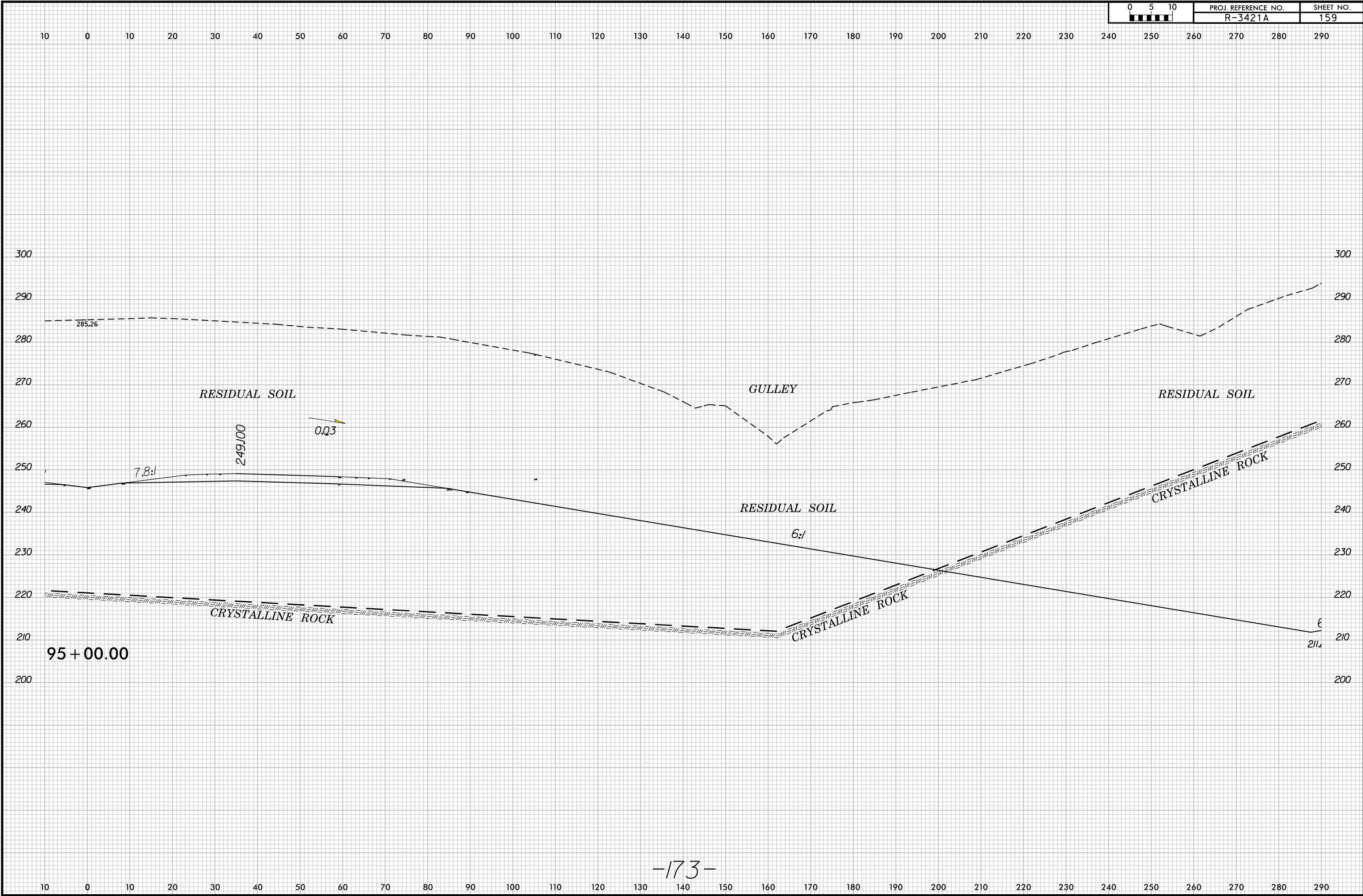
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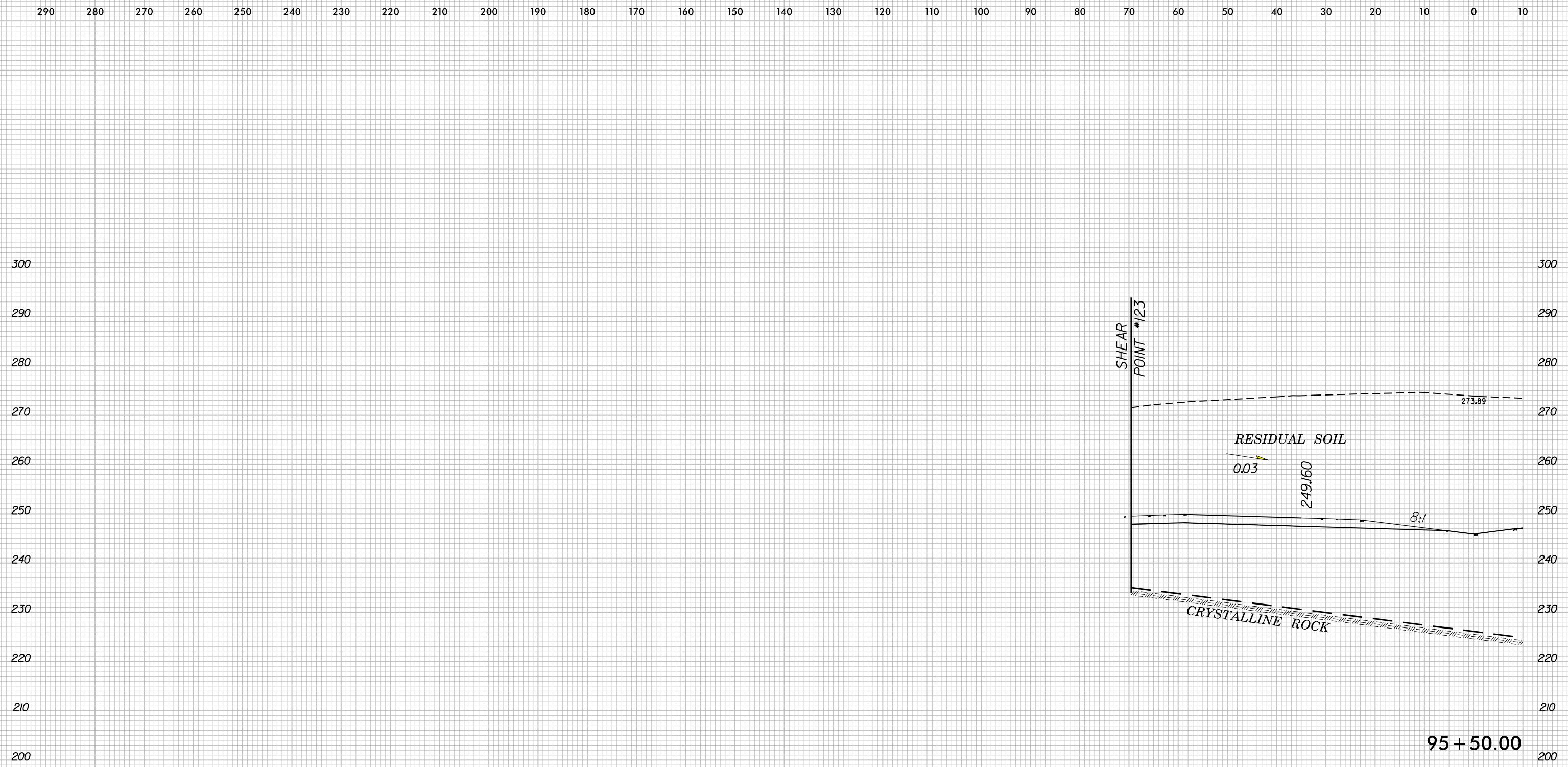


CRYSTALLINE ROCK

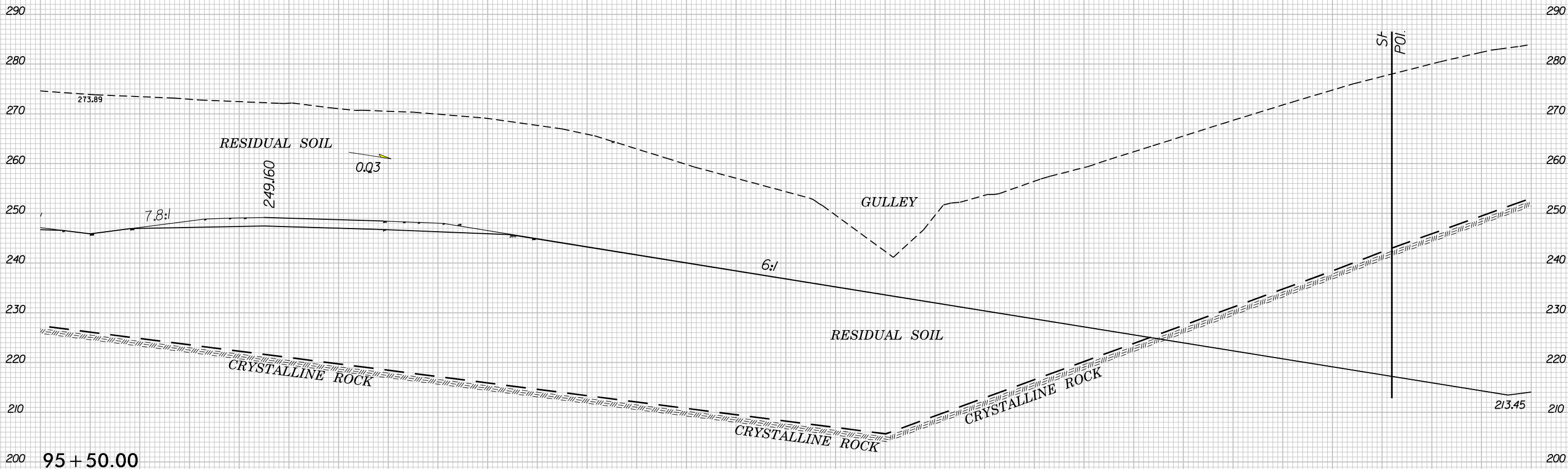
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10





10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290



95 + 50.00

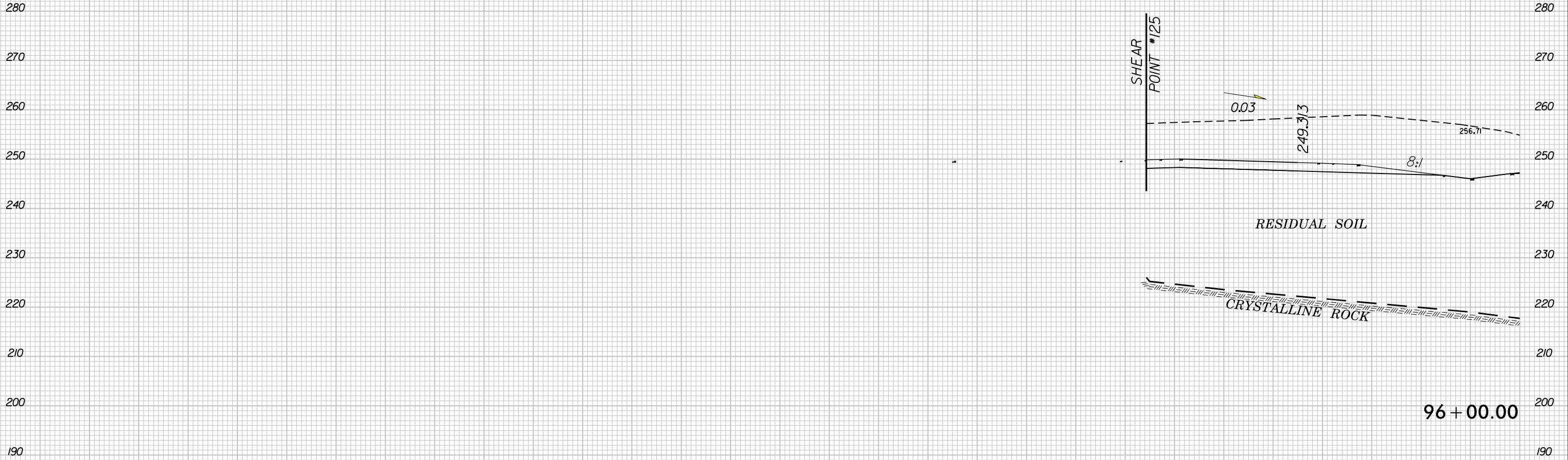
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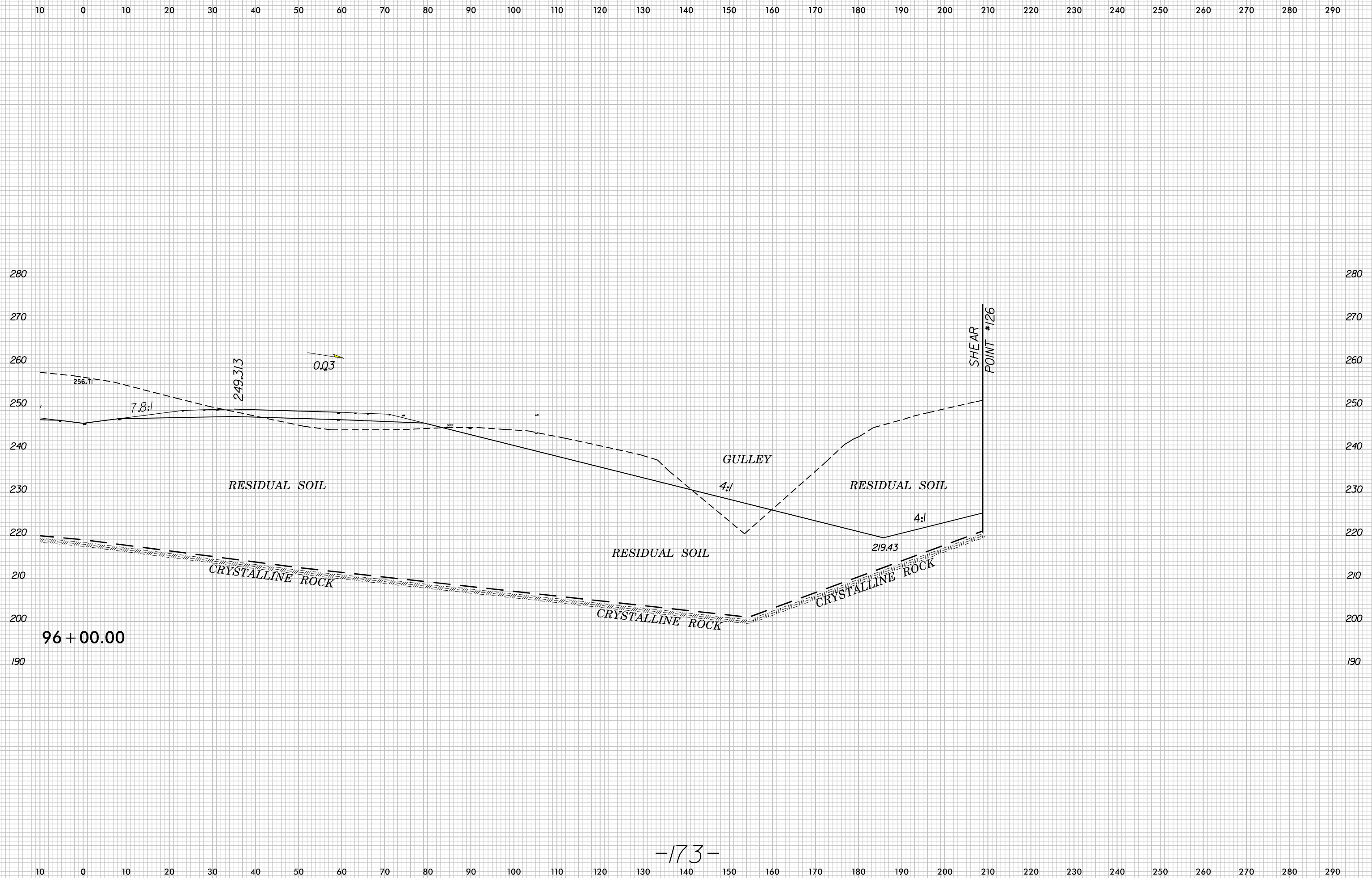
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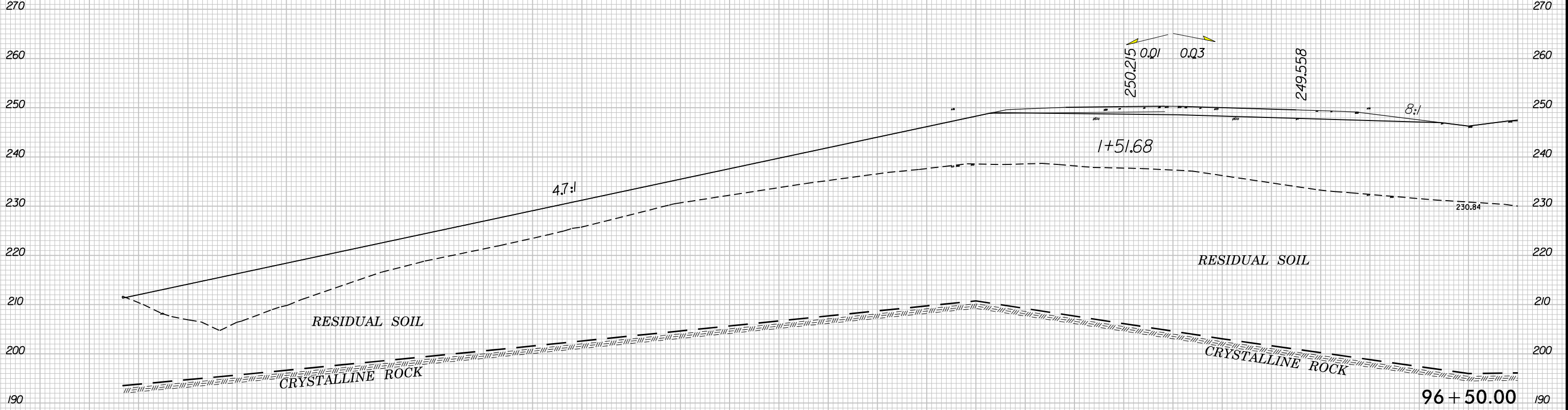
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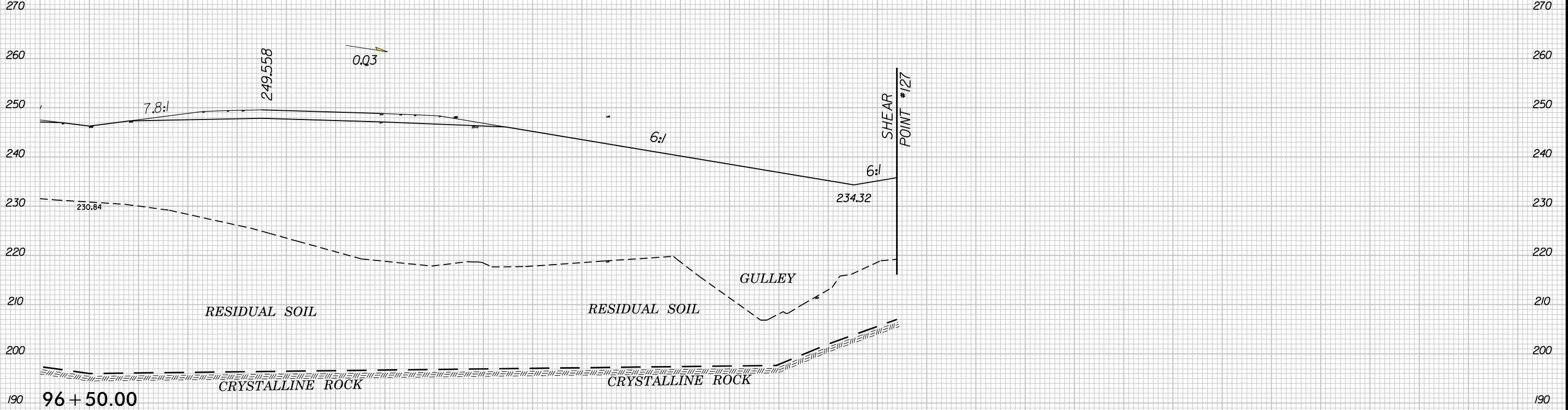


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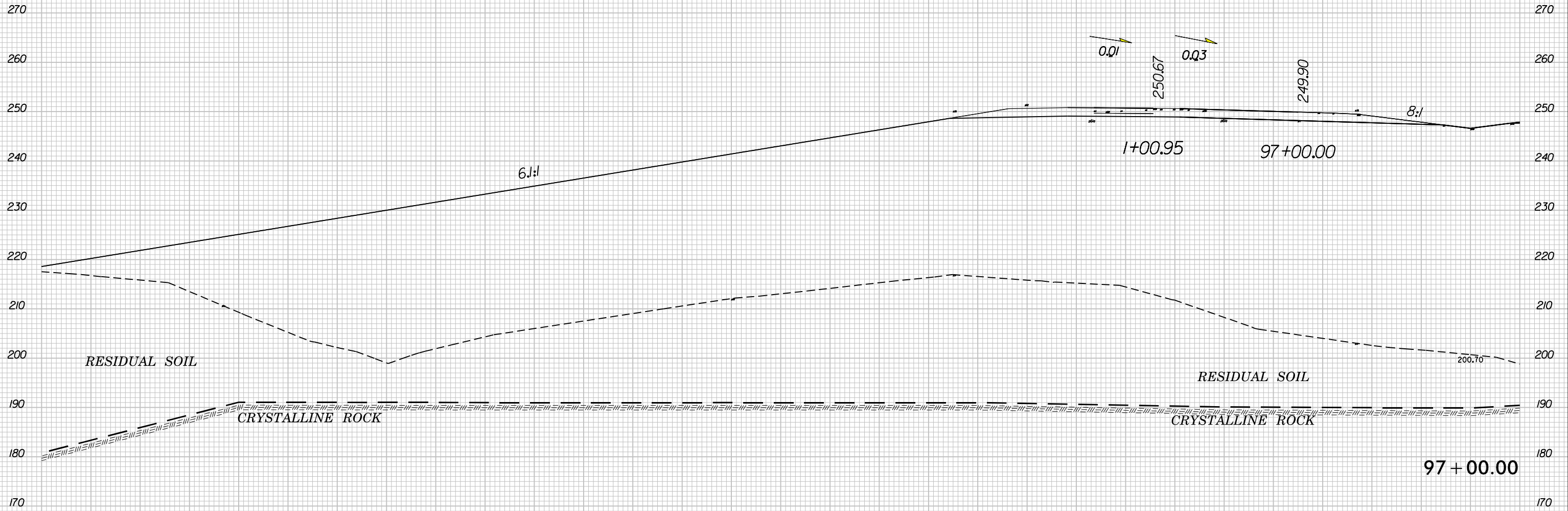
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10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290



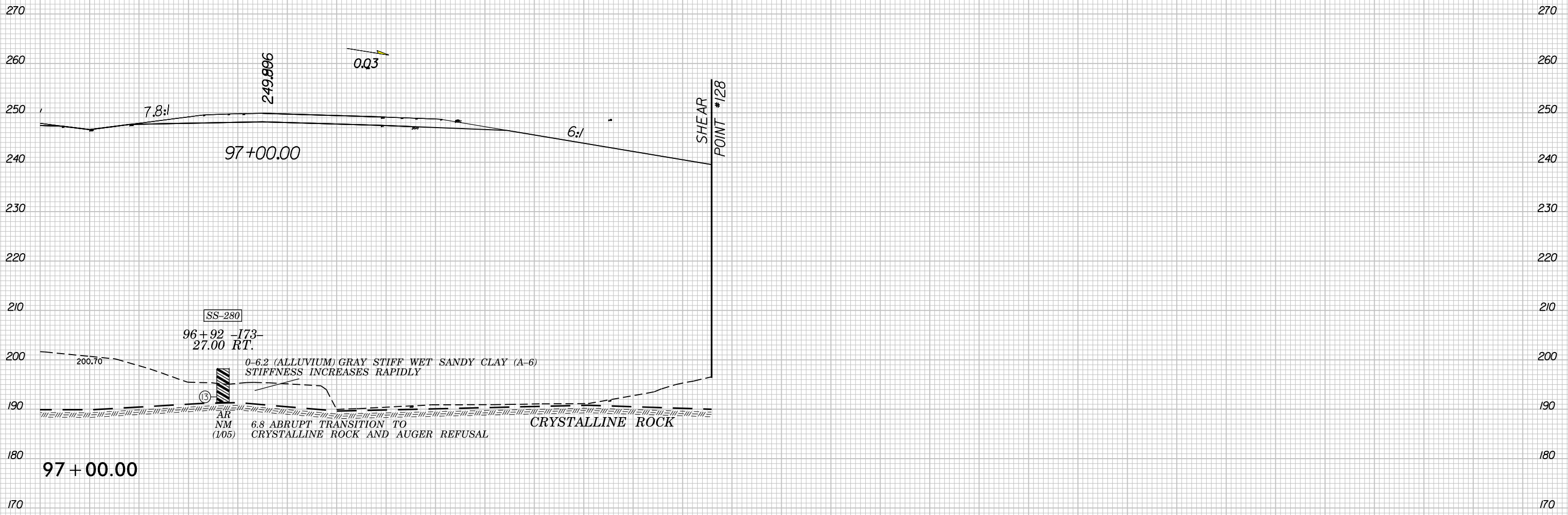
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

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-280	27RT	96+92	4.70-6.20	A-6(2)	38	15	31.2	31.4	19.1	18.3	96	77	41	-	-



10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

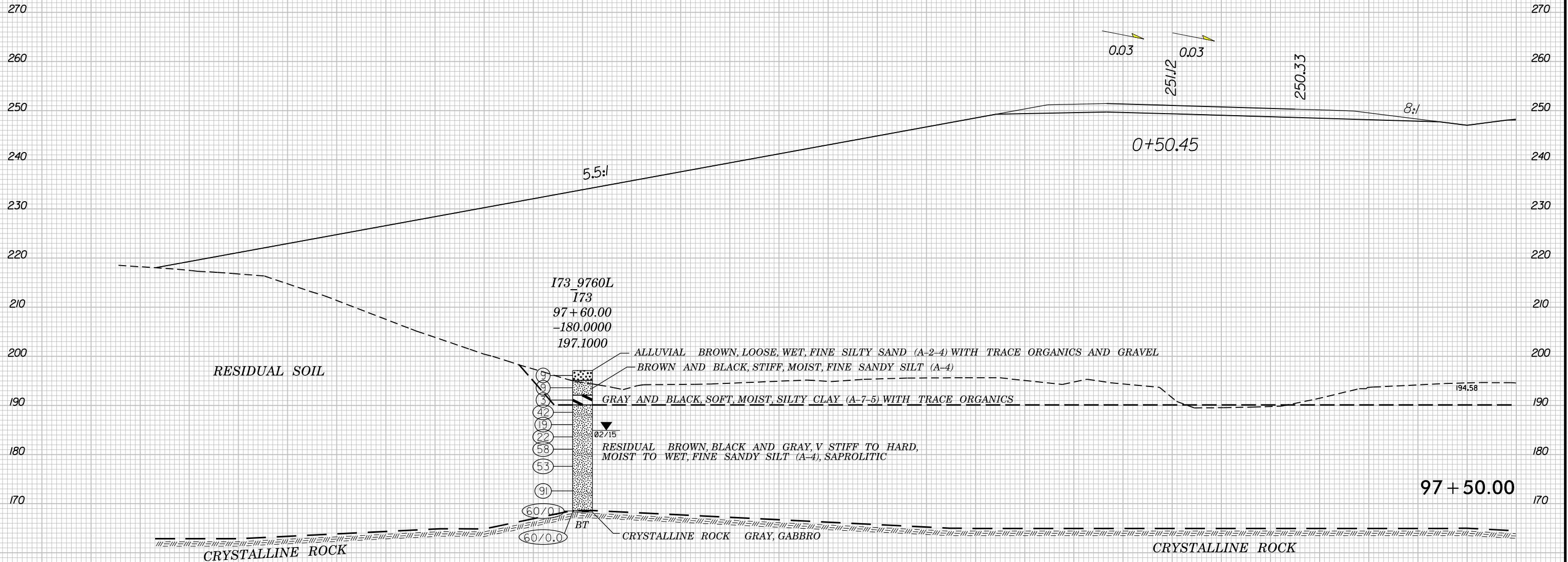
8/23/99



PROJ. REFERENCE NO.
R-3421A

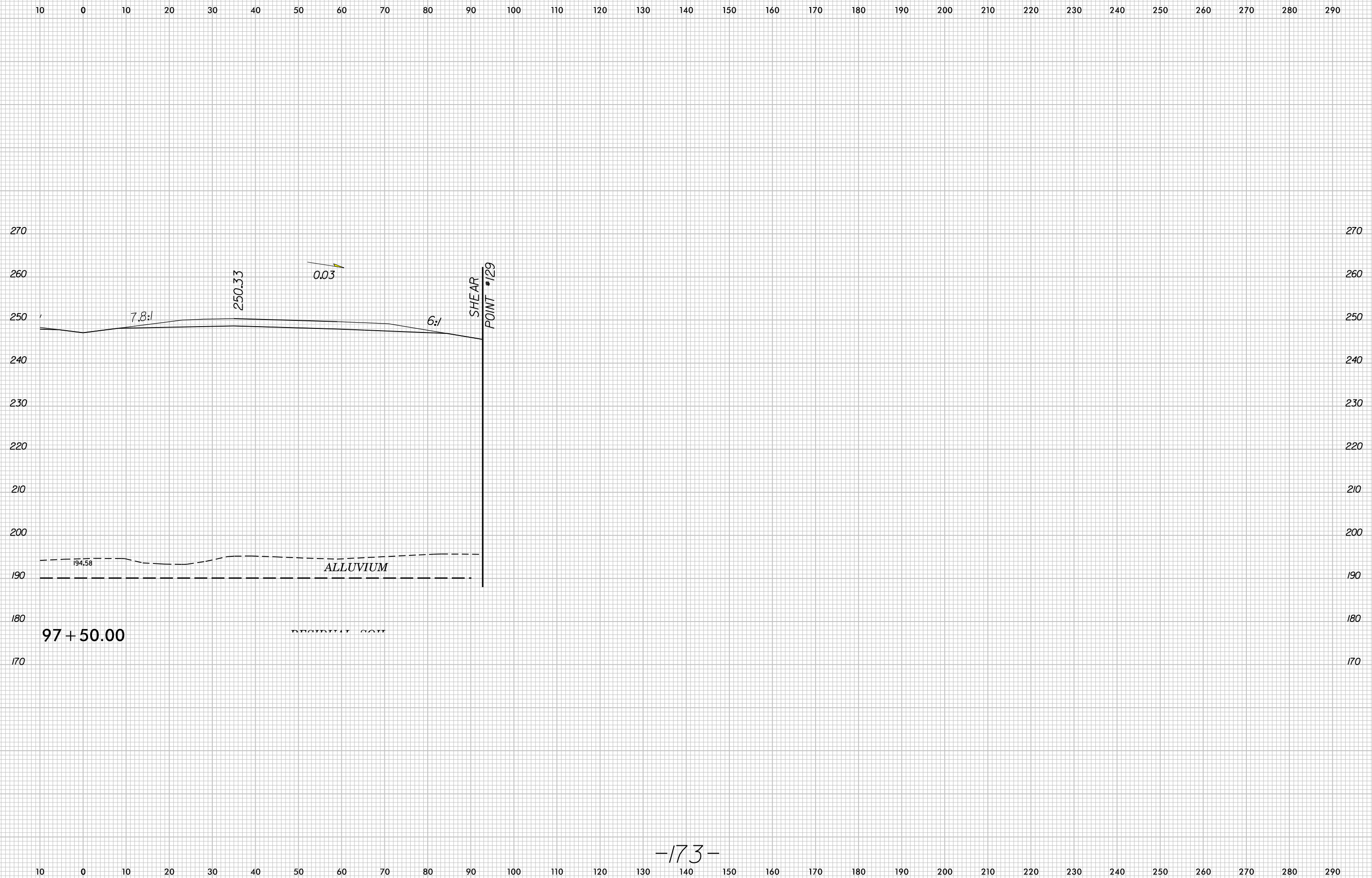
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169

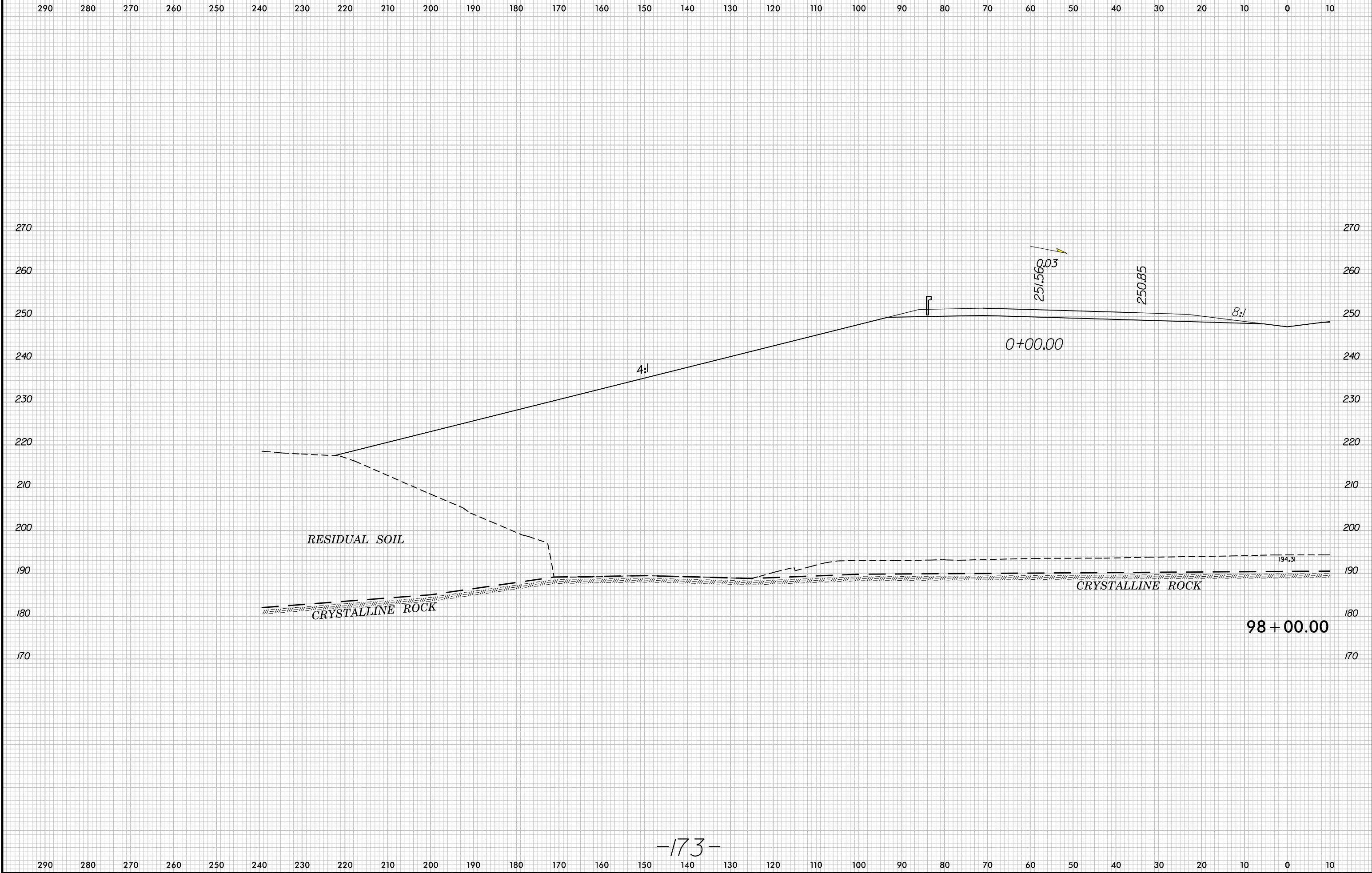
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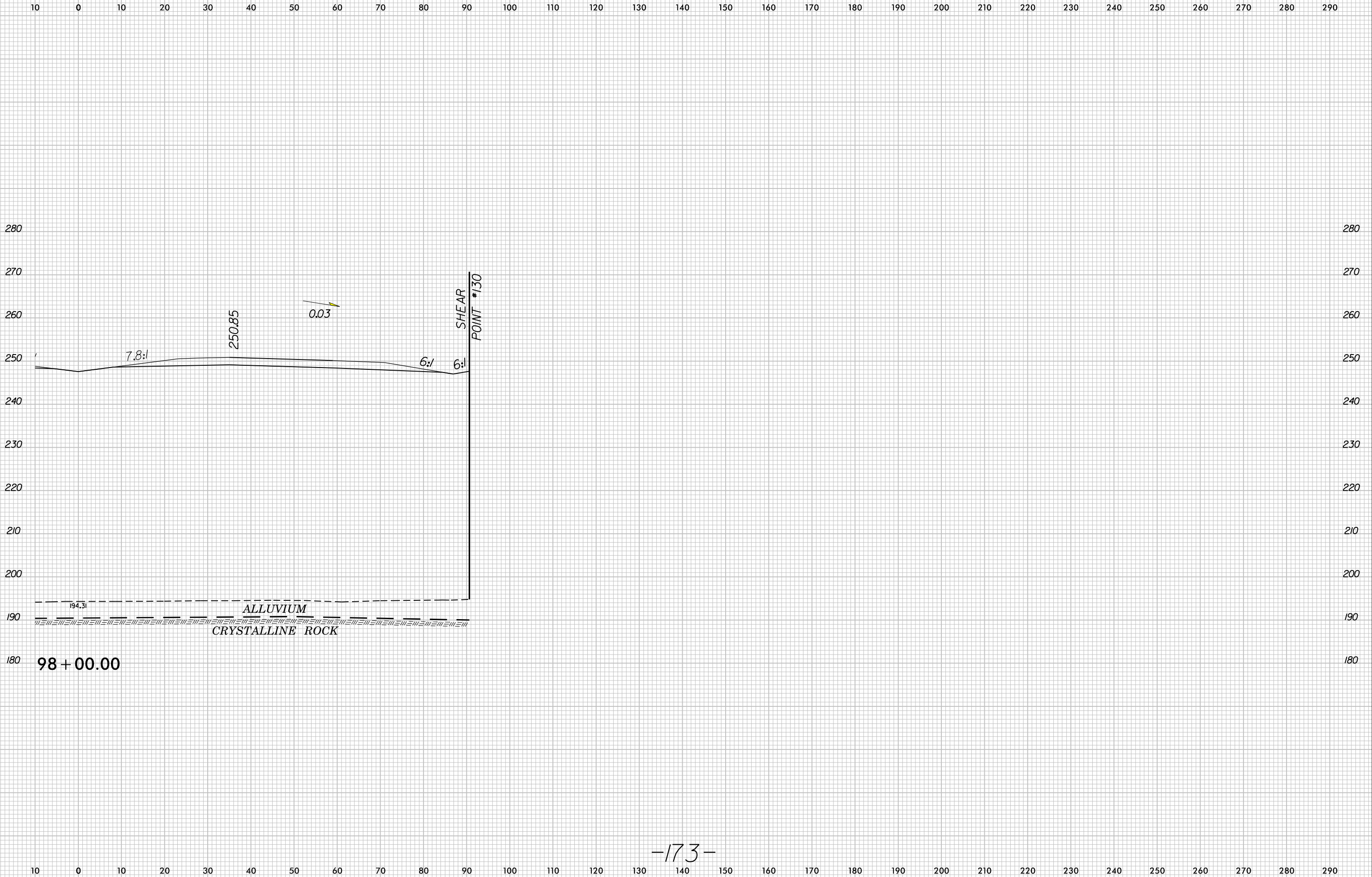


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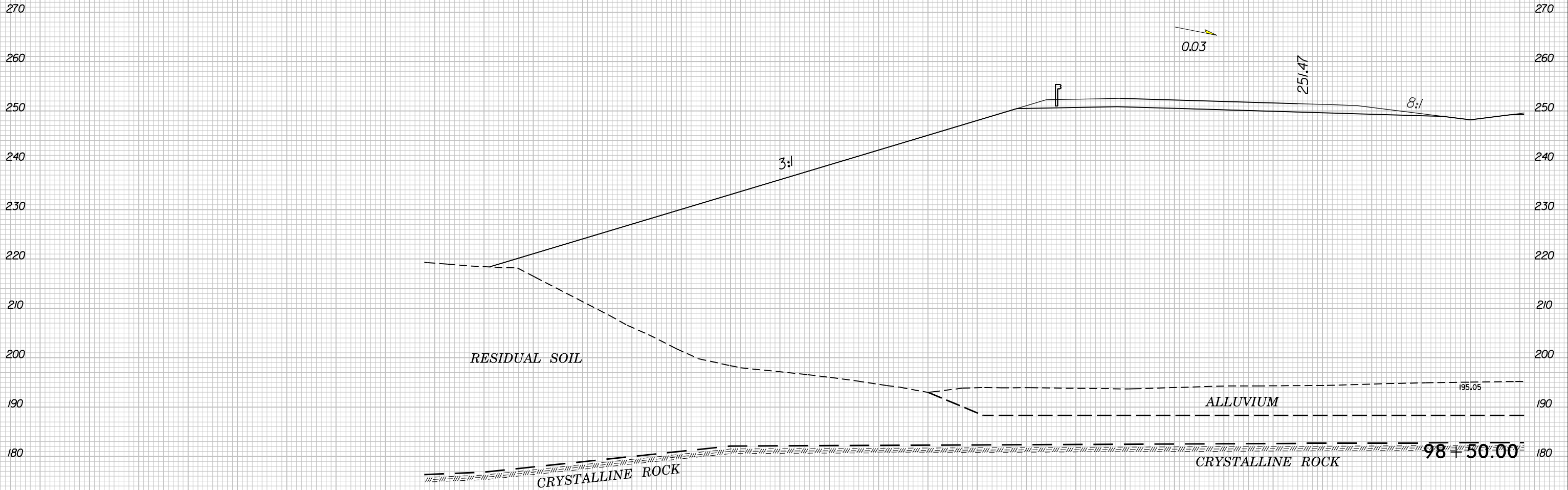
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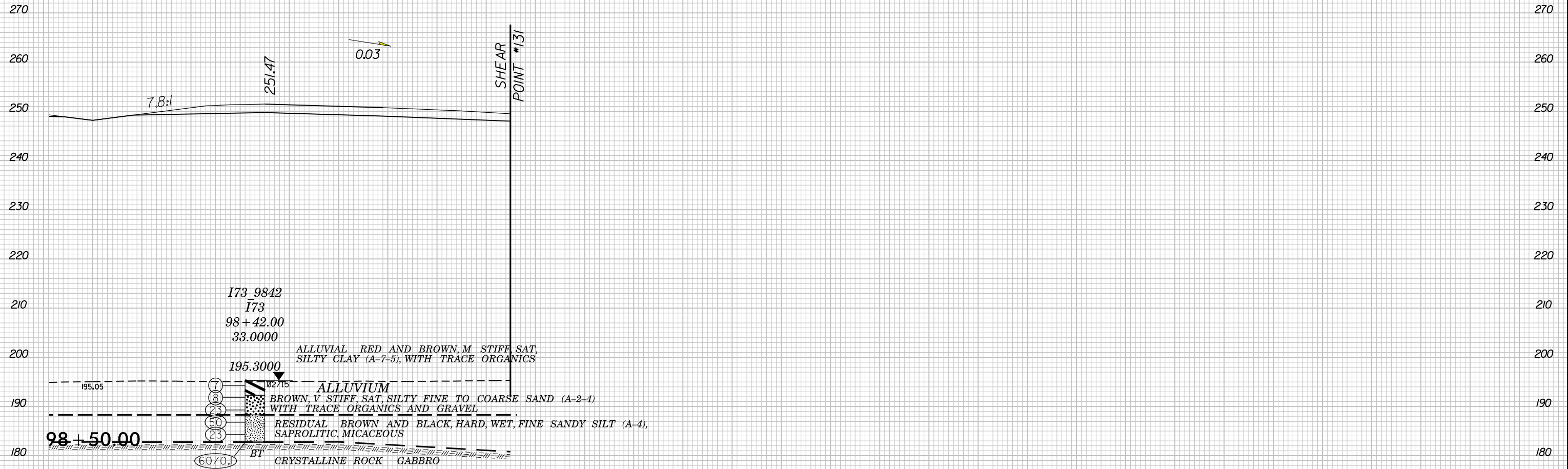
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

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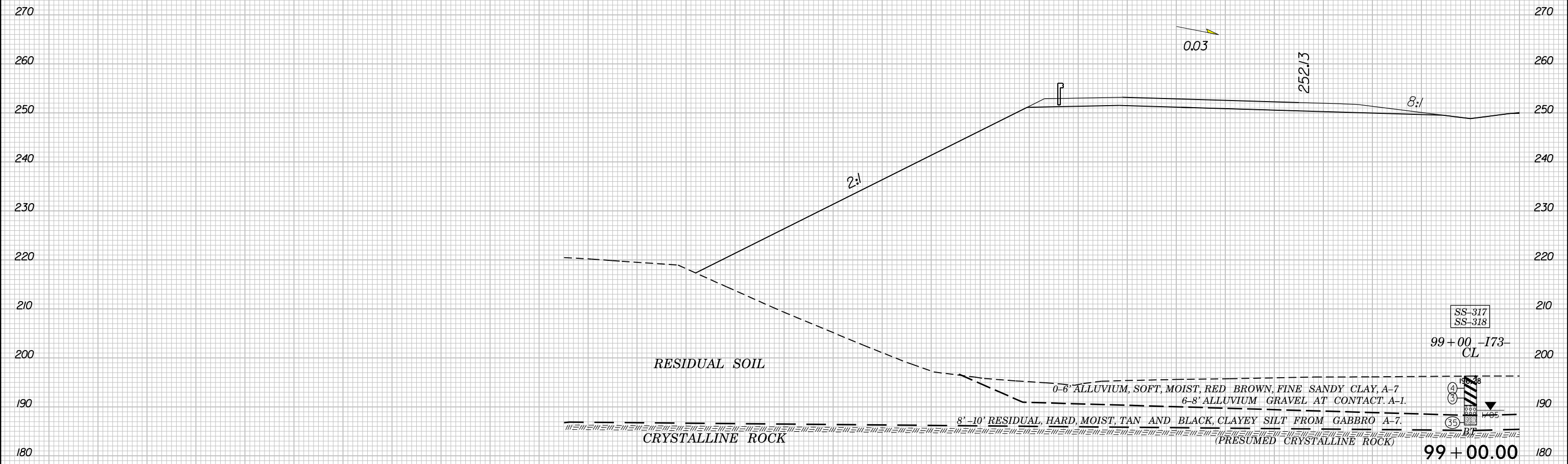


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

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-317	CL	99+00	1.50-3.00	A-7-6(14)	48	26	23.8	14.5	15.2	46.4	96	80	62	-	-
SS-318	CL	99+00	8.50-10.00	A-4(0)	26	NP	44.2	24.6	27.1	4.0	98	67	36	-	-



SS-317
SS-318

99+00 -173-
CL

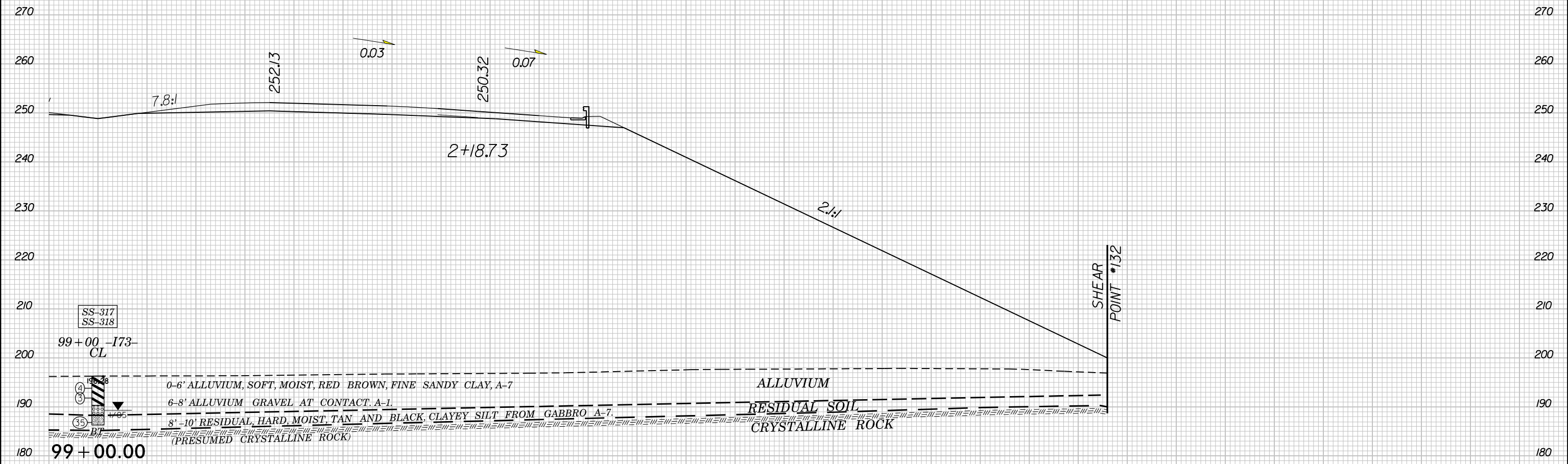
173
173

99+00.00

290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

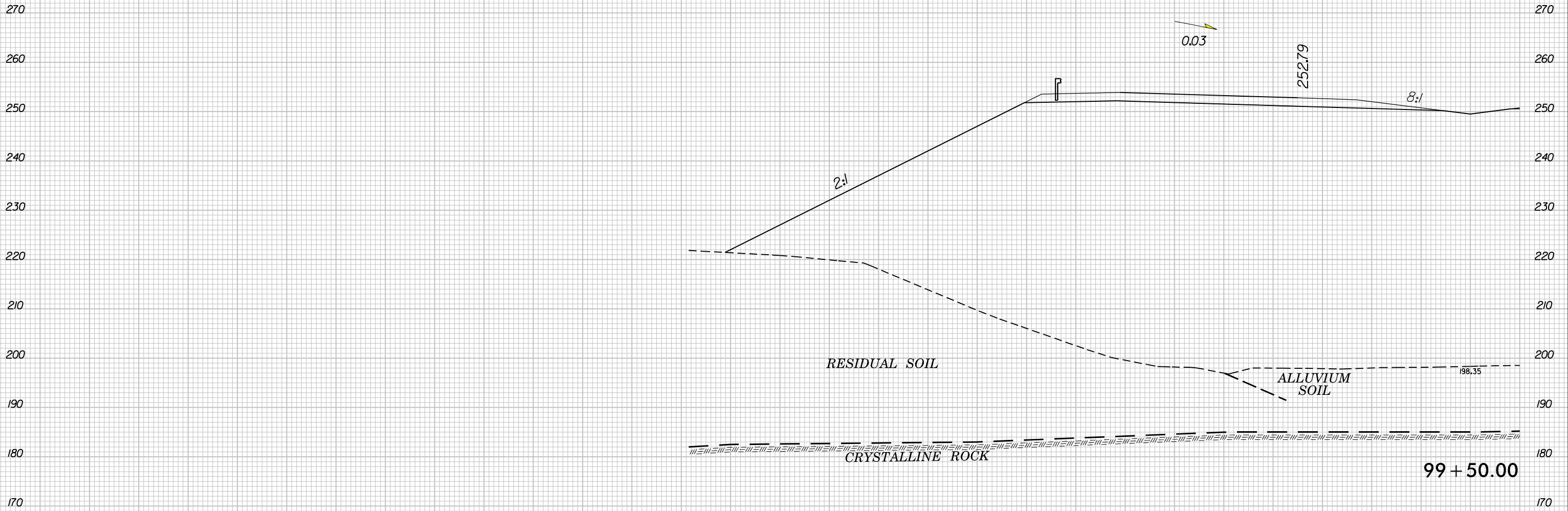
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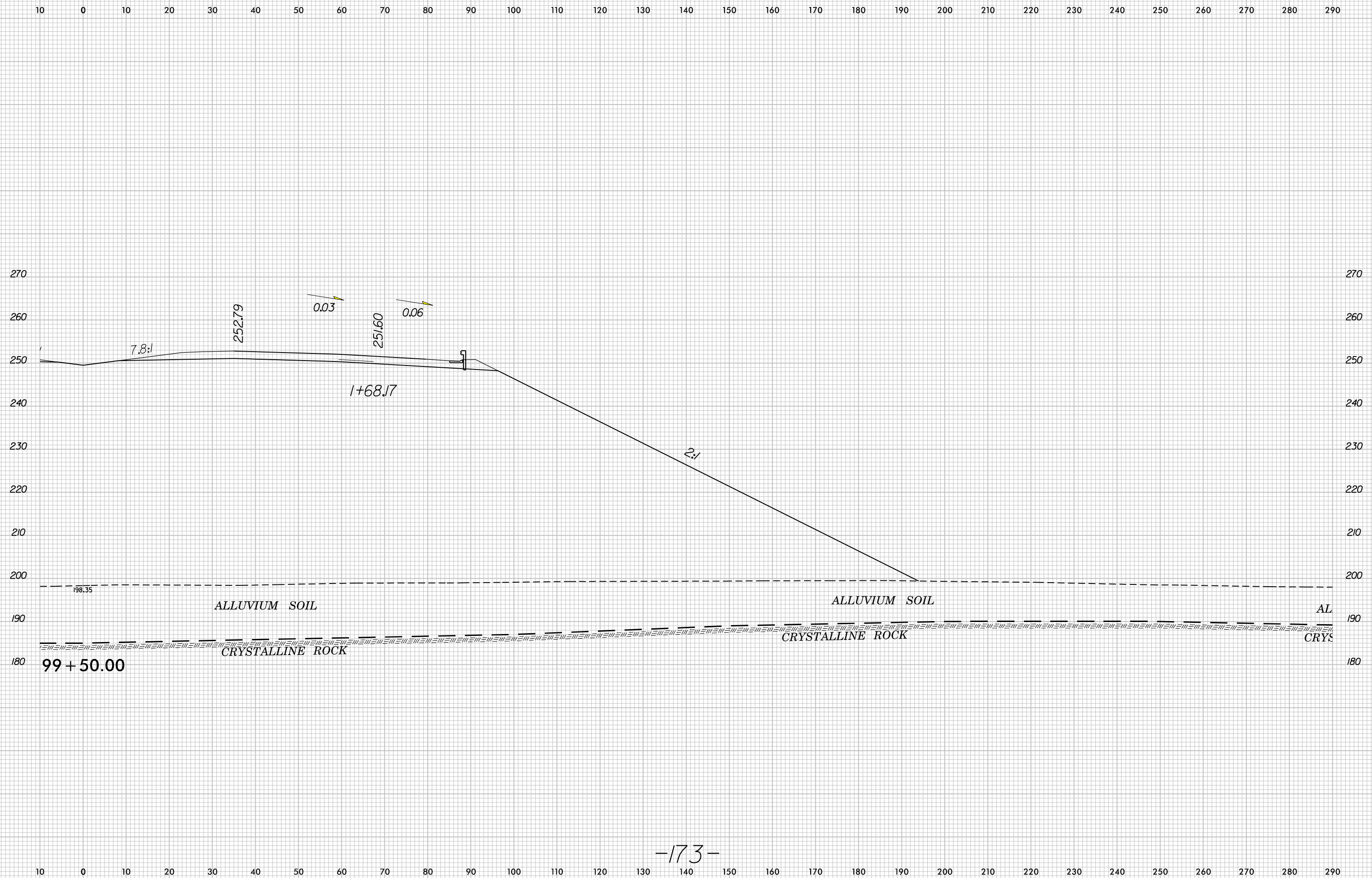
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-317	CL	99+00	1.50-3.00	A-7-6(14)	48	26	23.8	14.5	15.2	46.4	96	80	62	-	-
SS-318	CL	99+00	8.50-10.00	A-4(0)	26	NP	44.2	24.6	27.1	4.0	98	67	36	-	-



10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

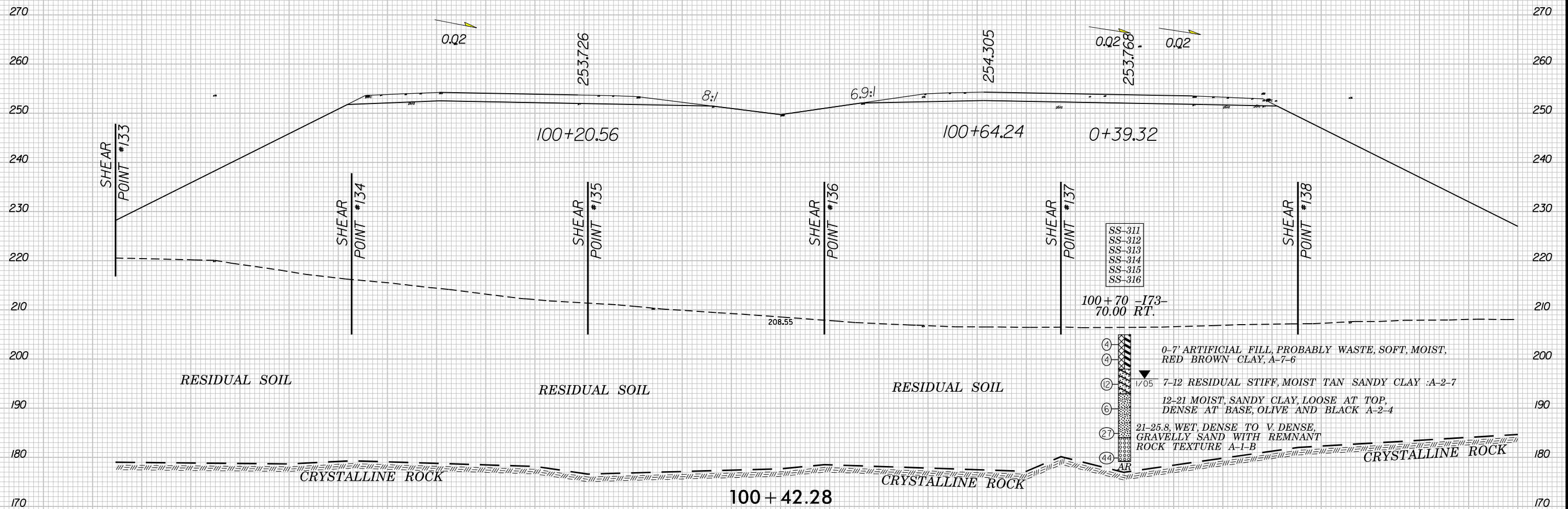




8/23/99

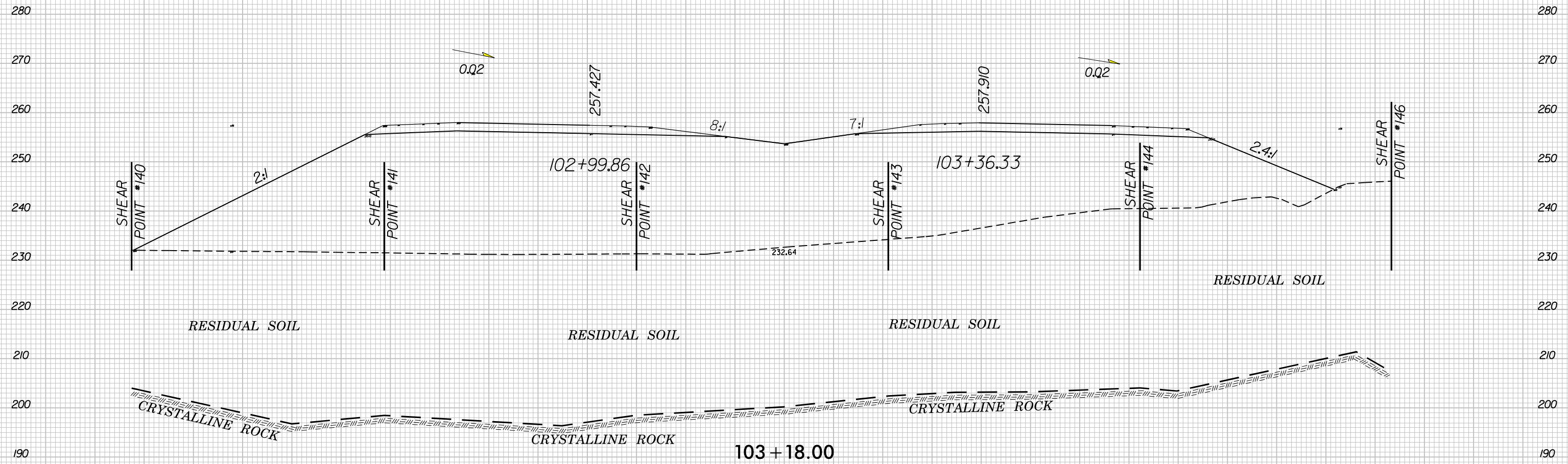
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SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-311	70 RT	100+70	1.00-2.50	A-7-6(25)	52	34	14.5	12.3	22.7	50.5	100	91	76	-	-
SS-312	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	-	-



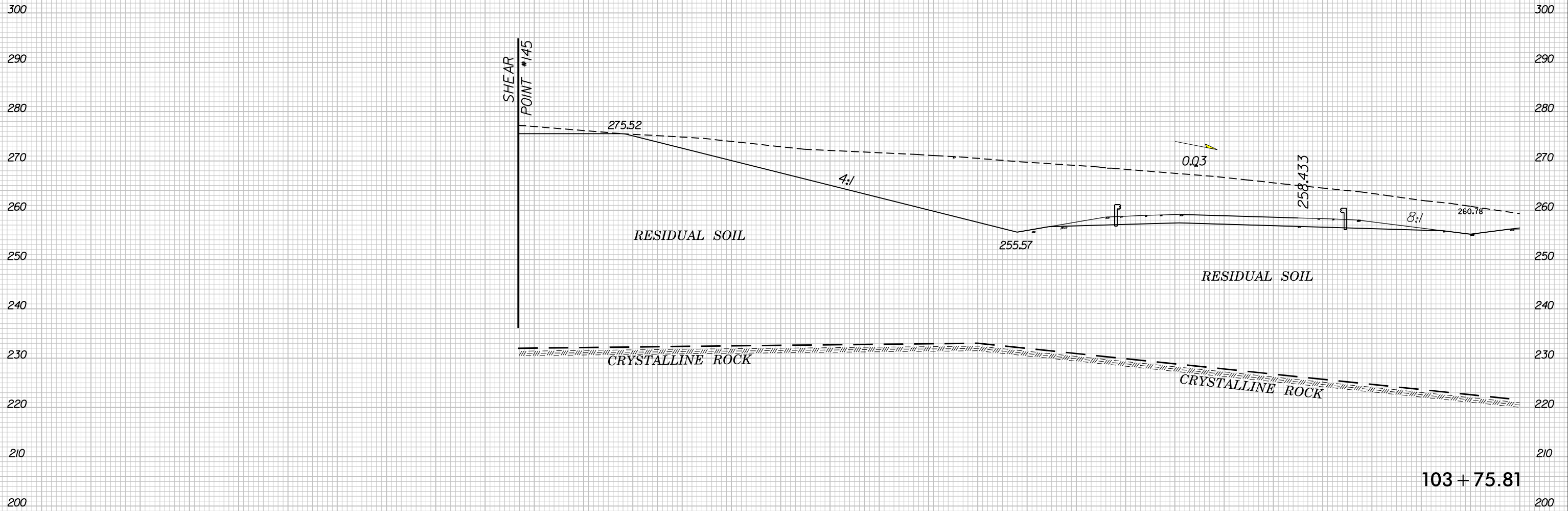
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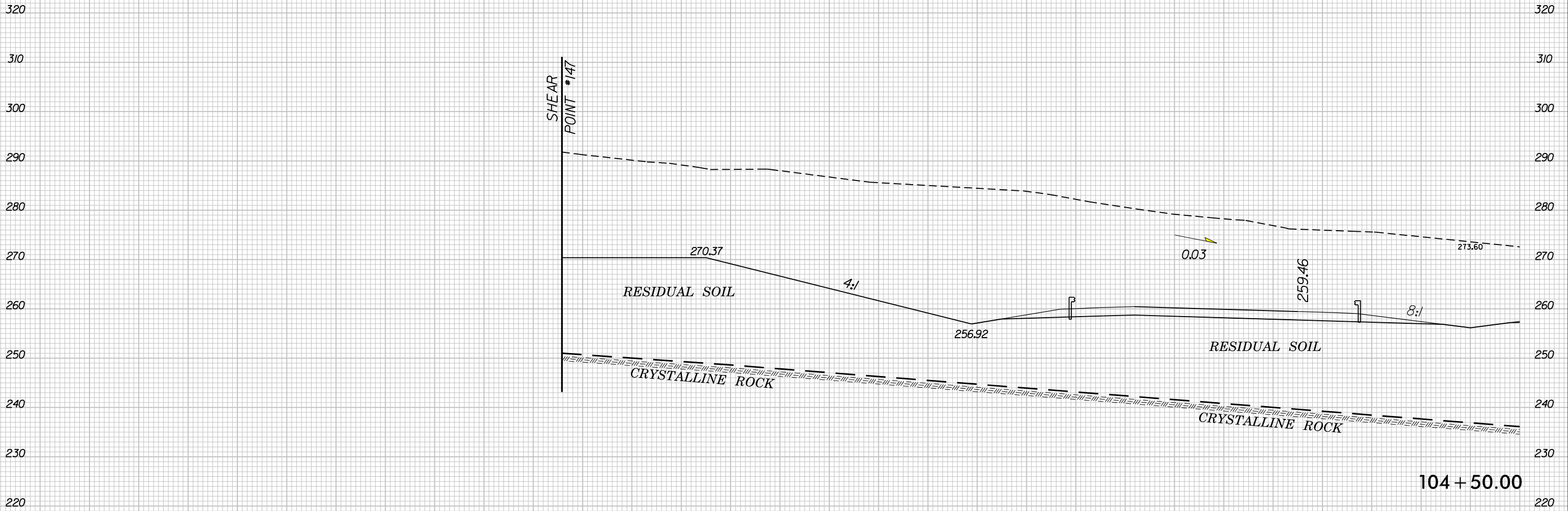
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10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290



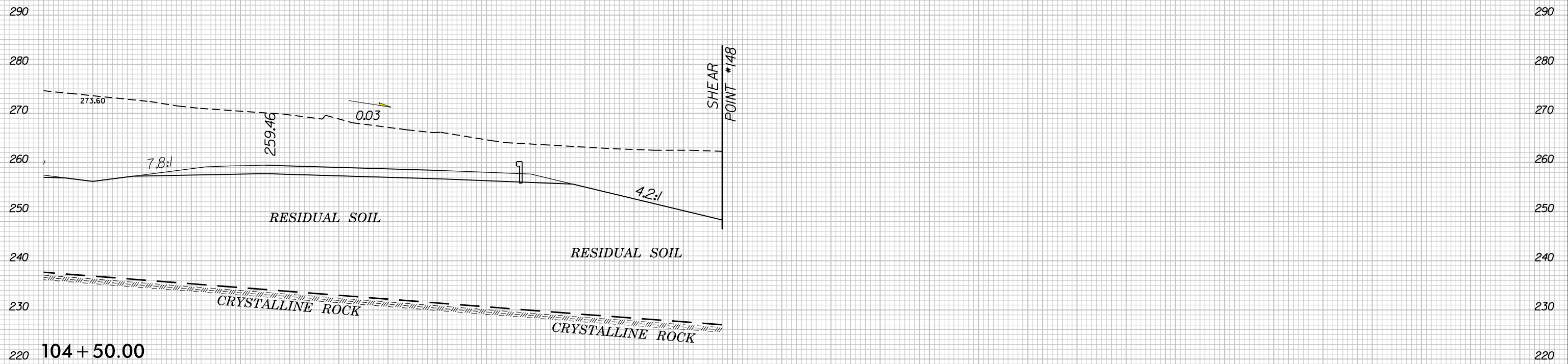
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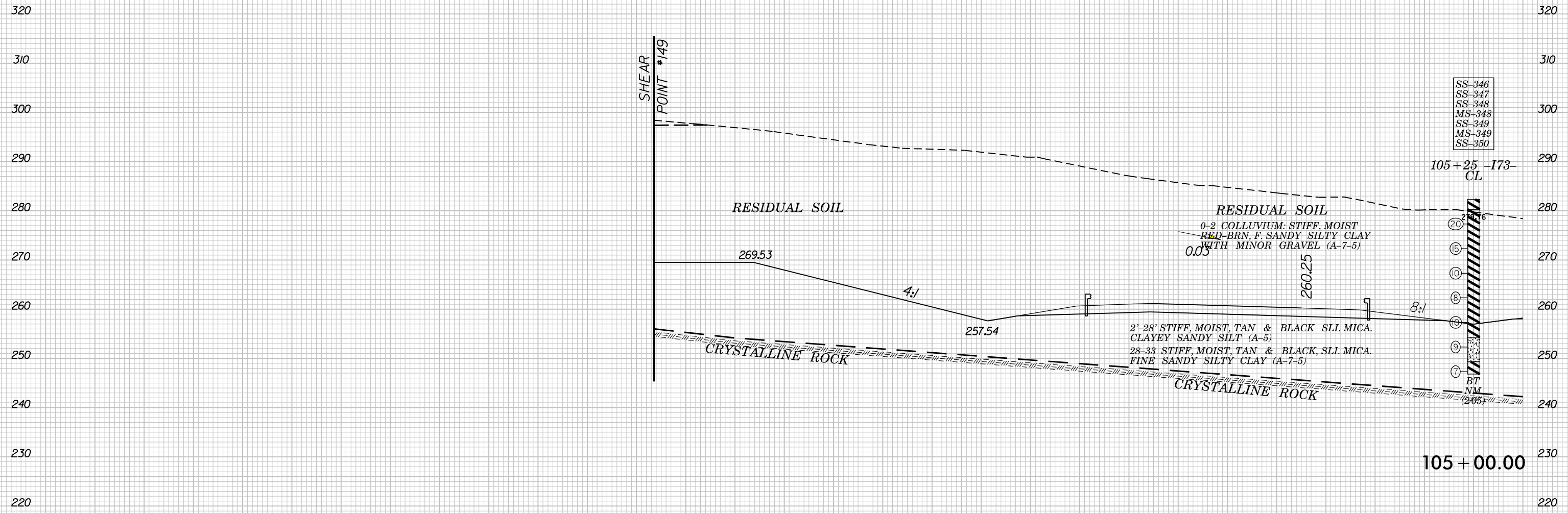
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

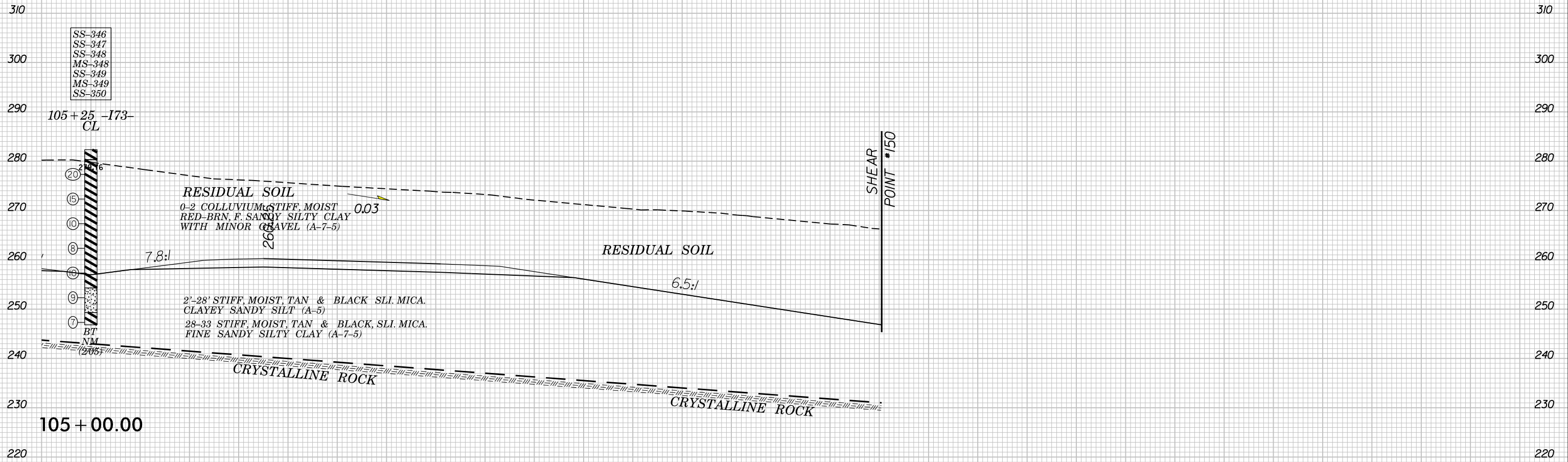
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-346	CL	105+25	4.00-5.50	A-7-5(4)	80	39	4.1	12.4	24.8	58.8	100	99	86	-	-
SS-347	CL	105+25	9.00-10.50	A-7-5(30)	70	29	4.3	14.8	30.3	50.7	100	99	84	-	-
SS-348	CL	105+25	19.00-20.50	A-7-5(12)	54	11	7.1	20.1	40.4	32.4	100	97	78	31.4	-
SS-349	CL	105+25	29.00-30.50	A-5(9)	63	8	10.9	27.6	41.2	20.3	100	96	67	38.8	-
SS-350	CL	105+25	34.00-35.50	A-7-5(10)	61	12	12.4	31.2	38.2	18.2	100	94	64	-	-



290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

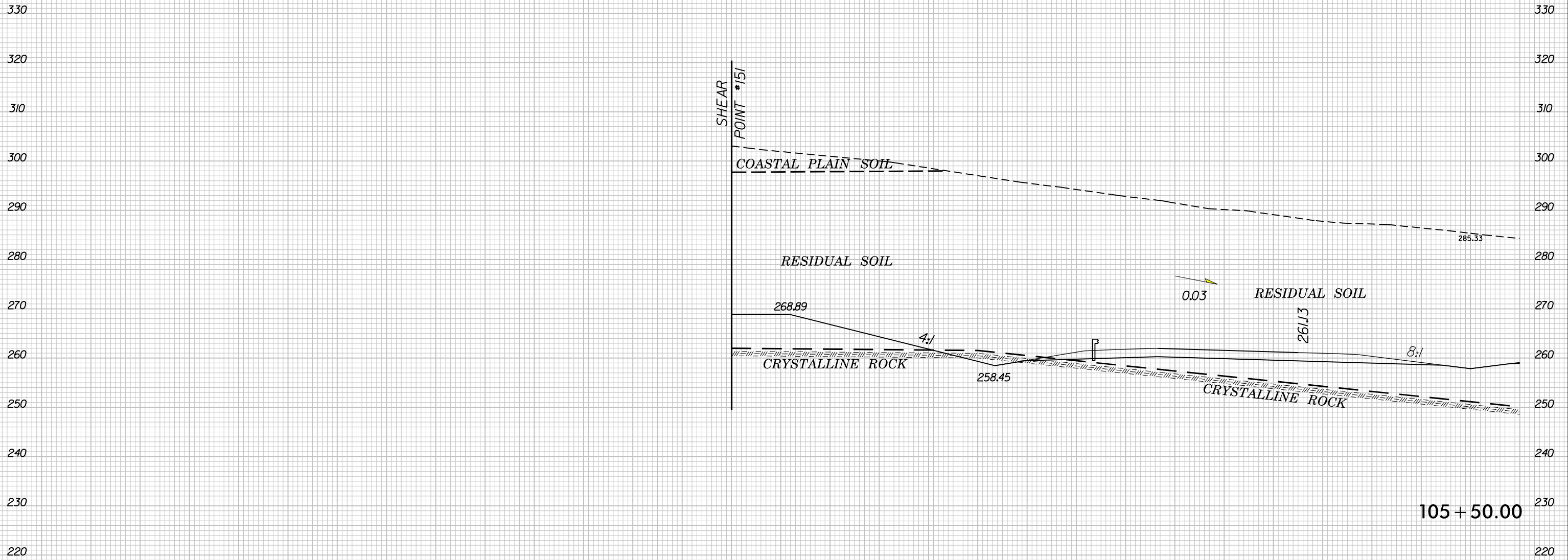
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-346	CL	105+25	4.00-5.50	A-7-5(41)	80	39	4.1	12.4	24.8	58.8	100	99	86	-	-
SS-347	CL	105+25	9.00-10.50	A-7-5(30)	70	29	4.3	14.8	30.3	50.7	100	99	84	-	-
SS-348	CL	105+25	19.00-20.50	A-7-5(12)	54	11	7.1	20.1	40.4	32.4	100	97	78	31.4	-
SS-349	CL	105+25	29.00-30.50	A-5(9)	63	8	10.9	27.6	41.2	20.3	100	96	67	38.8	-
SS-350	CL	105+25	34.00-35.50	A-7-5(10)	61	12	12.4	31.2	38.2	18.2	100	94	64	-	-



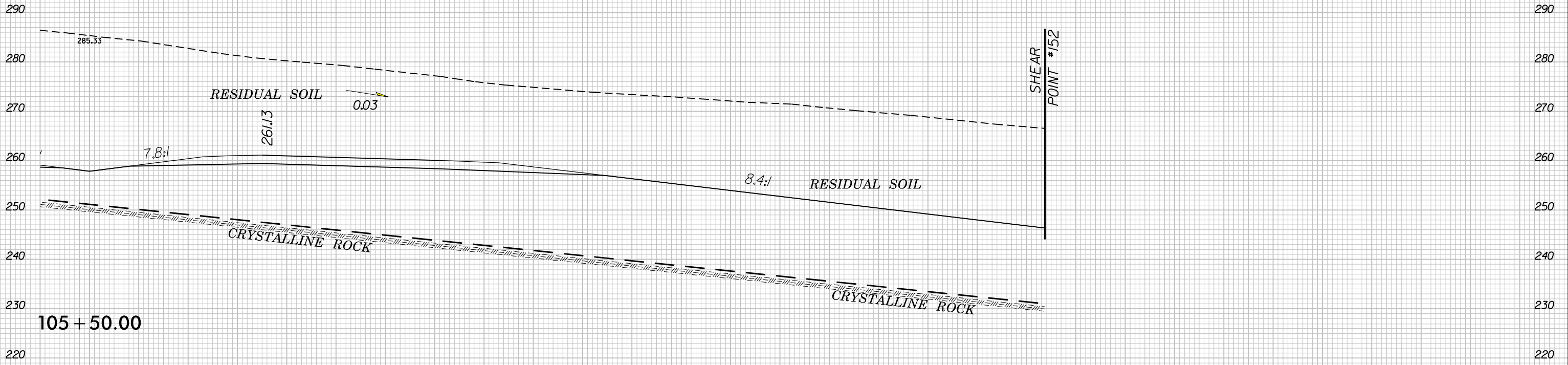
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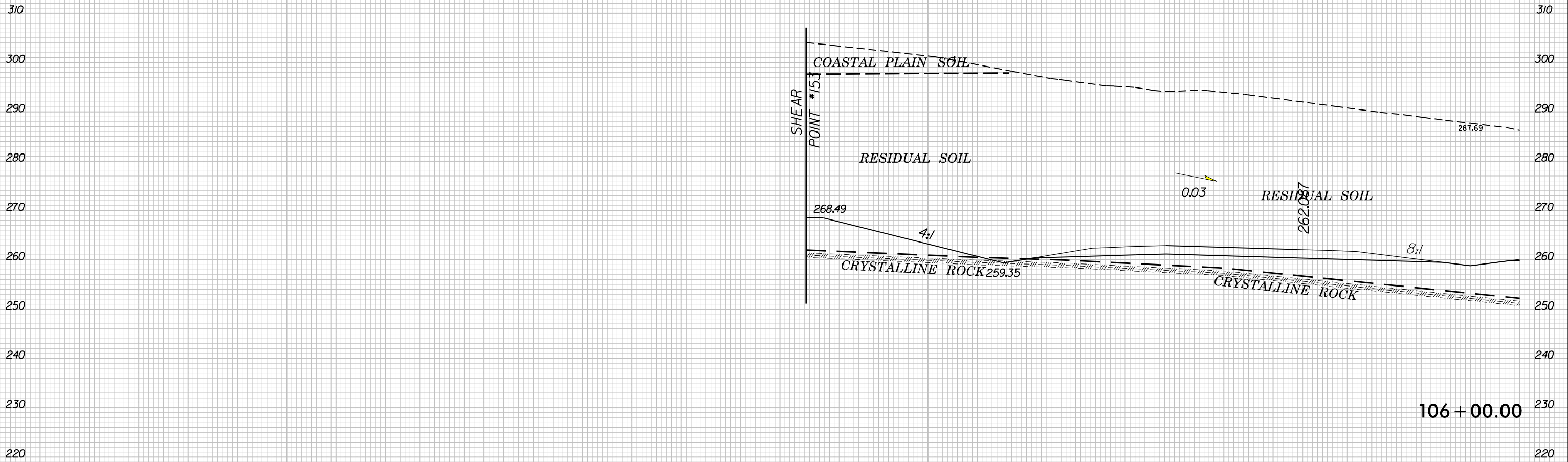
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10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

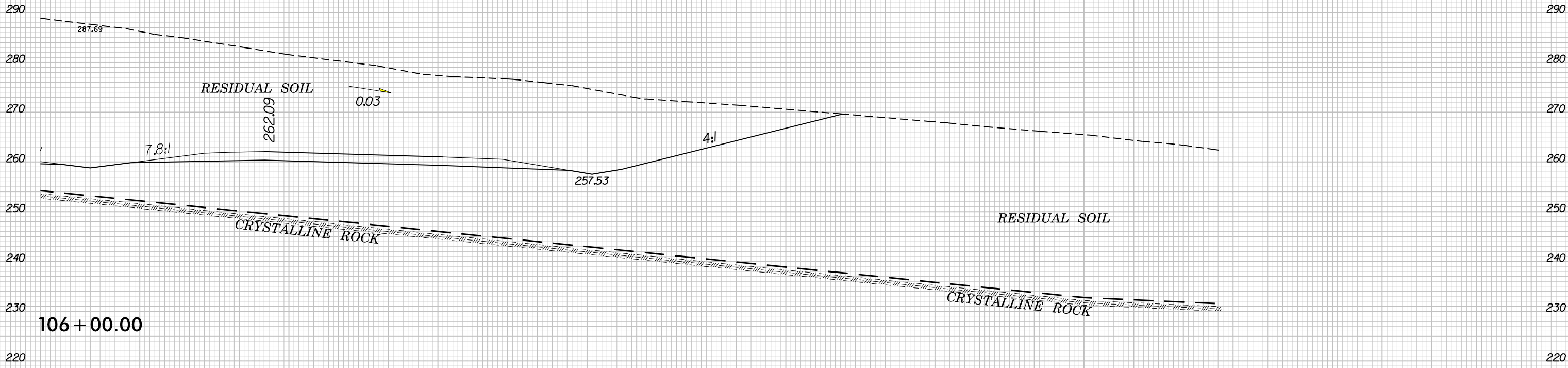


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290



106 + 00.00

10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290