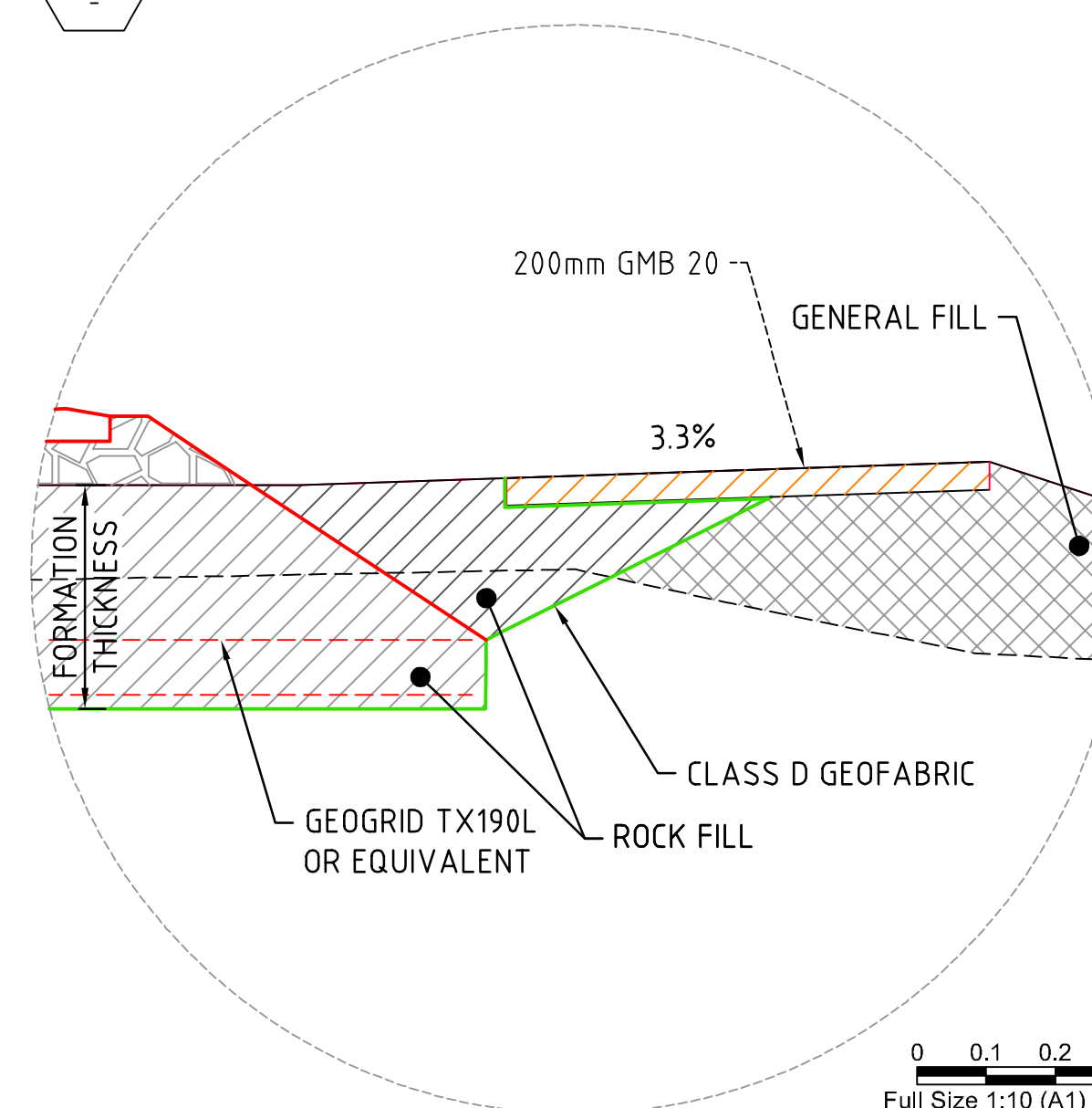
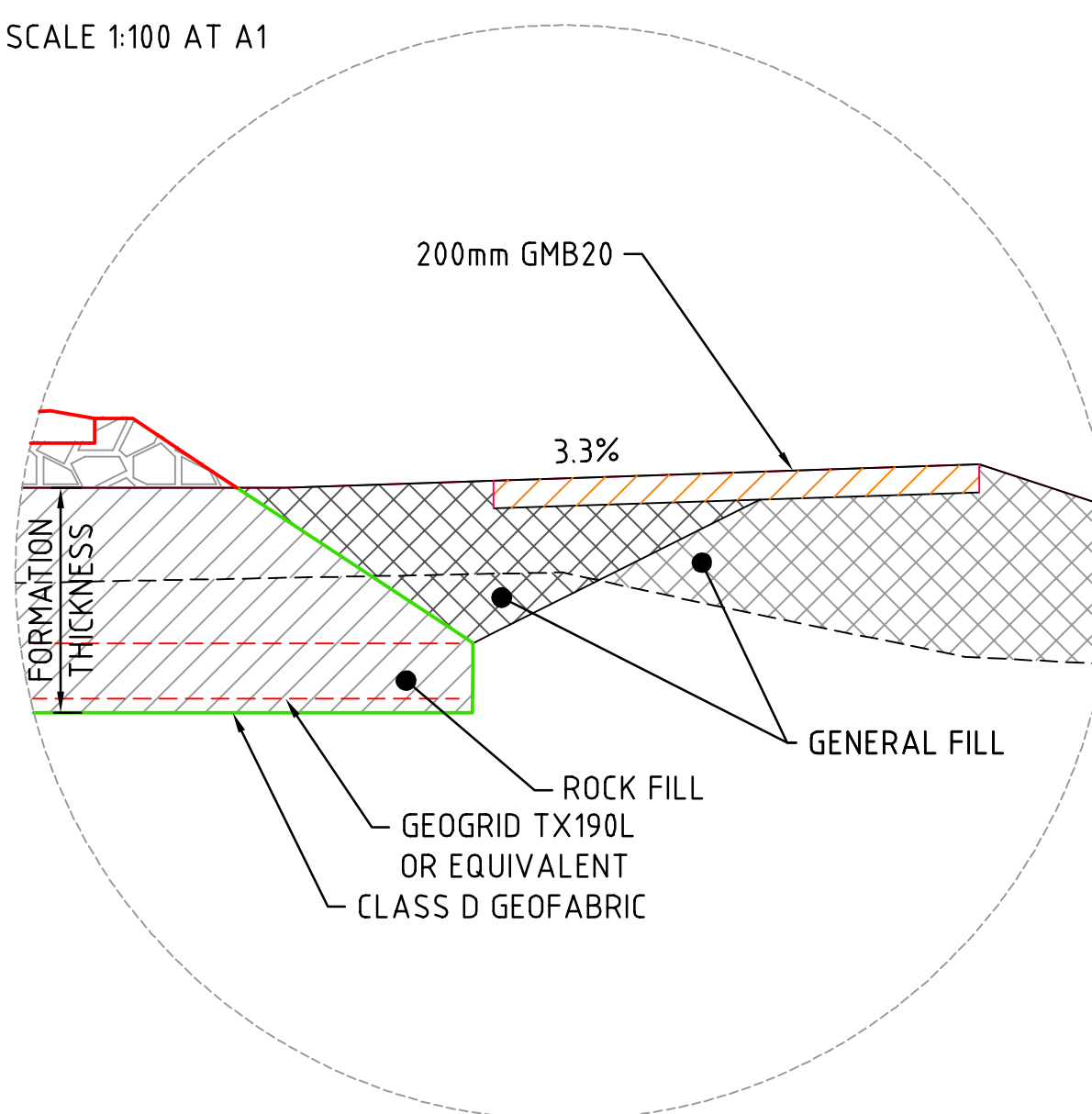
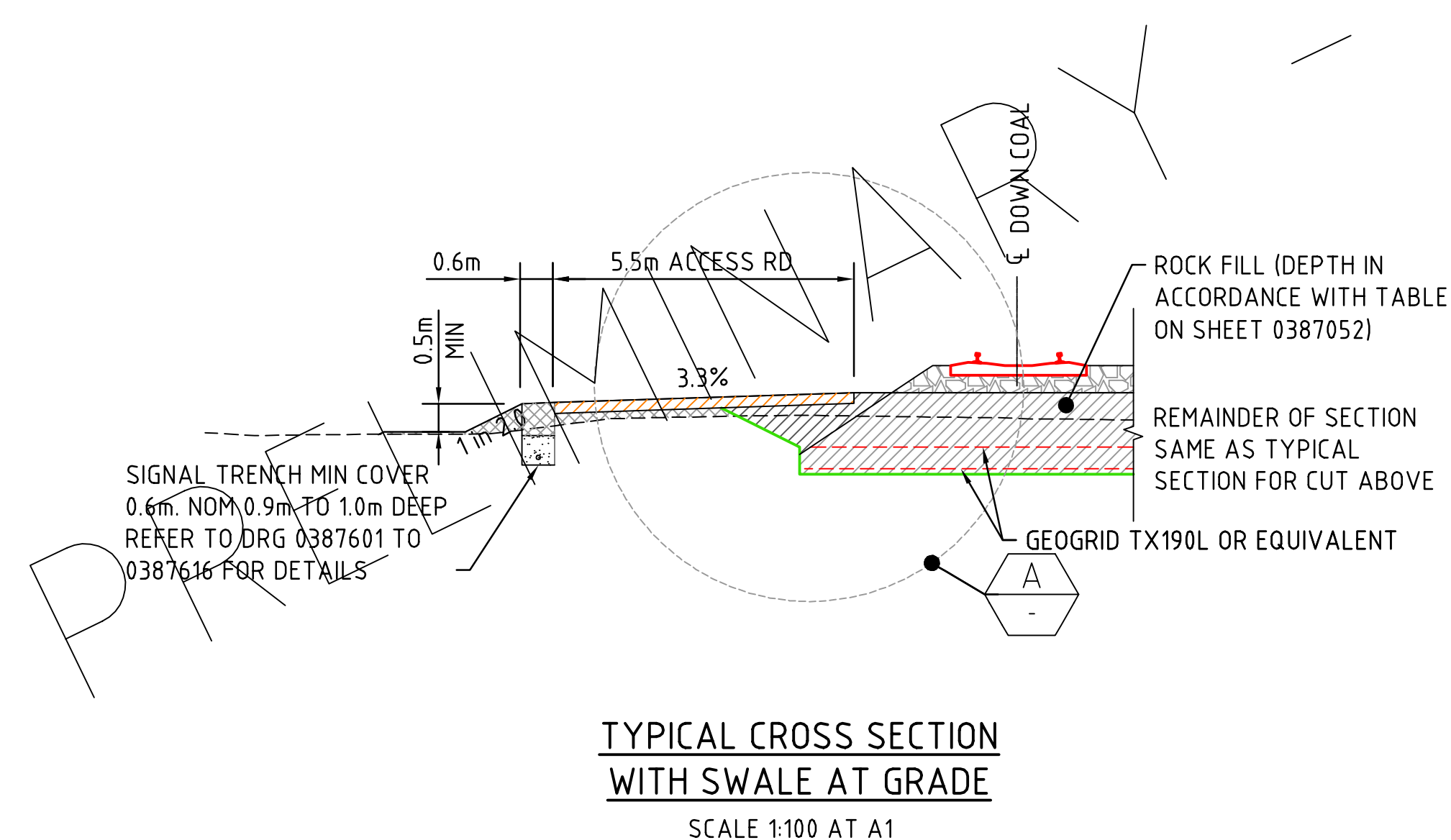
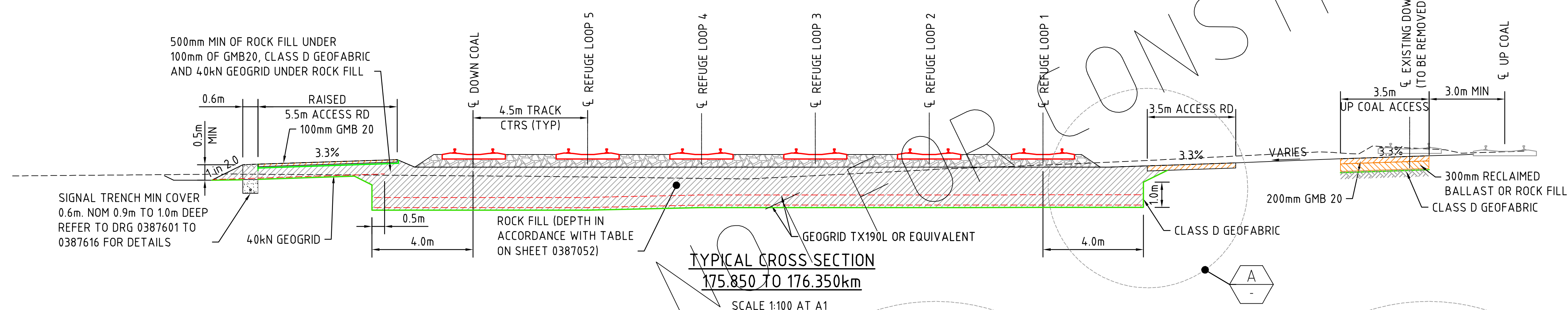
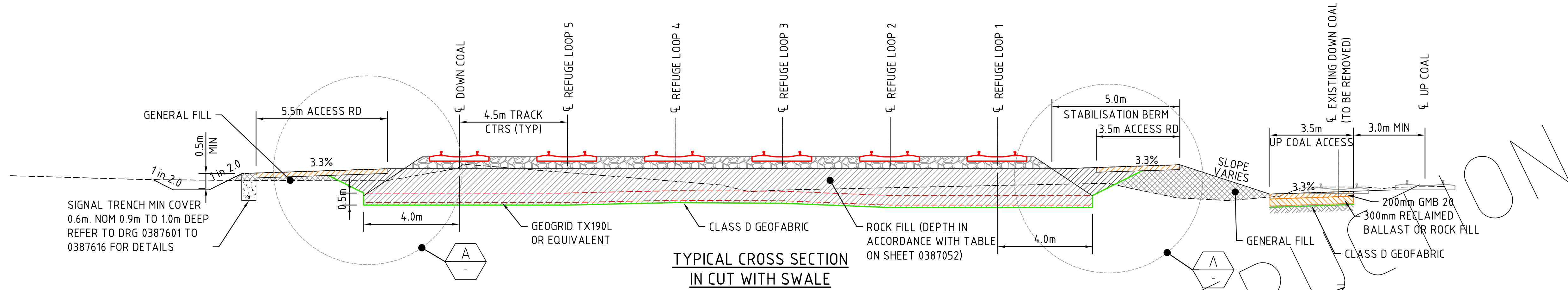




LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- CLASS D GEOFABRIC
- GEOGRID TX190L OR EQUIVALENT

Plotted By: WrightMo Plot Date: 27/02/13 - 16:56 Cad File: C:\Users\wrightmo\local settings\temp\AcPublish 3200\UHVA-HR-CIV-0387051-03.dwg

© 2011 Australian Rail Track Corporation Ltd.

Drawing standard in accordance with PP-117.4.3

Used on / Next higher assembly:

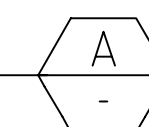
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Alternate DMS number:

Rev	Date	Revision Description	Designed	Checked	Ind. Rev.	Approved
04	-	IDR Submission	J.H.	C.W.	S.T.	
03	10.01.13	Swale/GMB references updated	J.H.	C.W.	S.T.	
02	10.12.12	For Review	J.H.	C.W.	S.T.	
01	14.09.12	TOC Submission	J.H.	C.W.	S.T.	
00	18.04.12	Mid Design Review	C.W.			

Designing Company:	UHVA
Designed	
Checked	
Ind. Rev. Company	Ind. Rev. Name
Review Signature	

DETAIL
SCALE 1:50



OPTION 2: ROCK FILL

0 0.1 0.2 0.4 0.6
Full Size 1:100 (A1); Half Reduction 1:200 (A3)
SCALE (m)

0 1 2 4 6
Full Size 1:100 (A1); Half Reduction 1:200 (A3)
SCALE (m)

PHASE 3 - PROJECT ASSESSMENT

ORIGINAL SHEET SIZE A1

HR-CIV-0387051-03-04

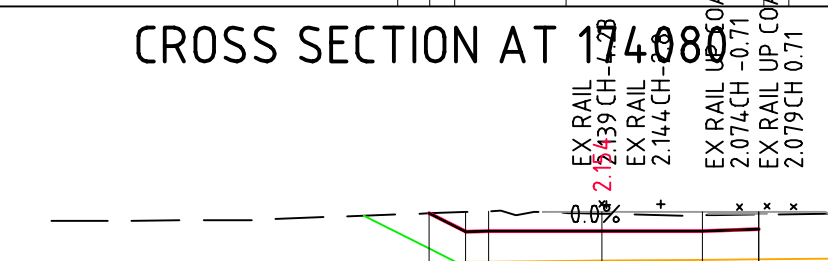
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AUSTRALIAN RAIL TRACK CORPORATION LTD

MAIN NORTH 173.900KM-176.800KM - Hexham Relief Roads
Typical Geotechnical Sections

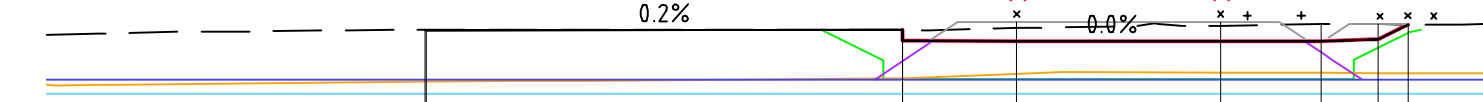
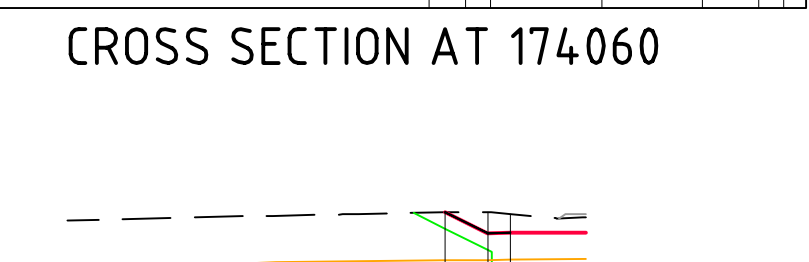
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1 OF 2
Scale:
1:100



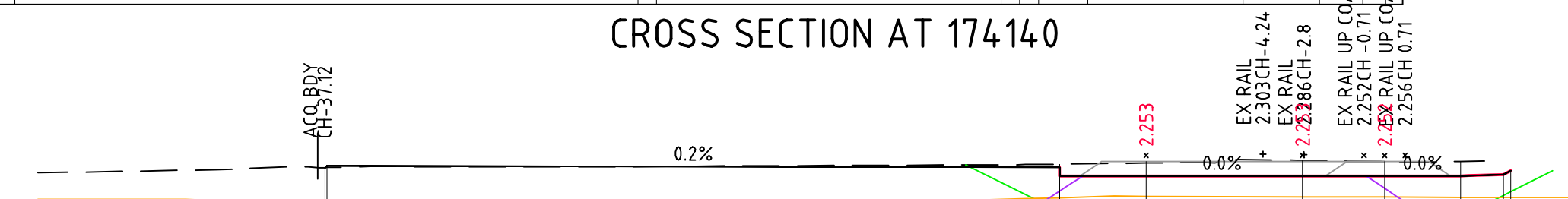
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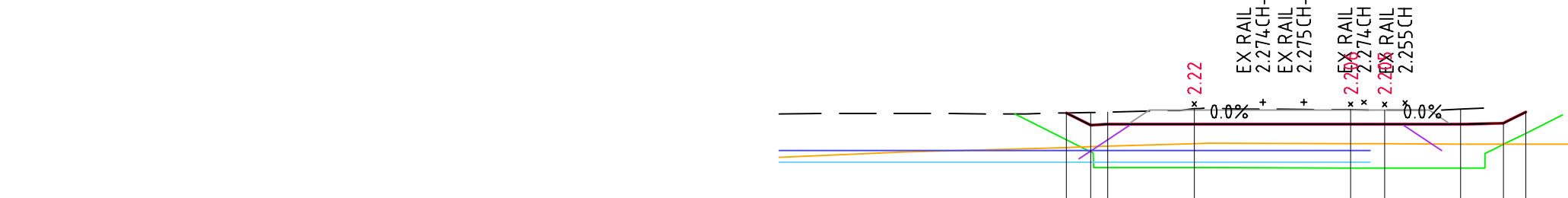
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-4.24	-2.8	UP CO	-0.71	UP CO	0.71
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-4.24	
-2.8	
UP CO ₂	
-0.72	
UP CO ₂	
0.72	



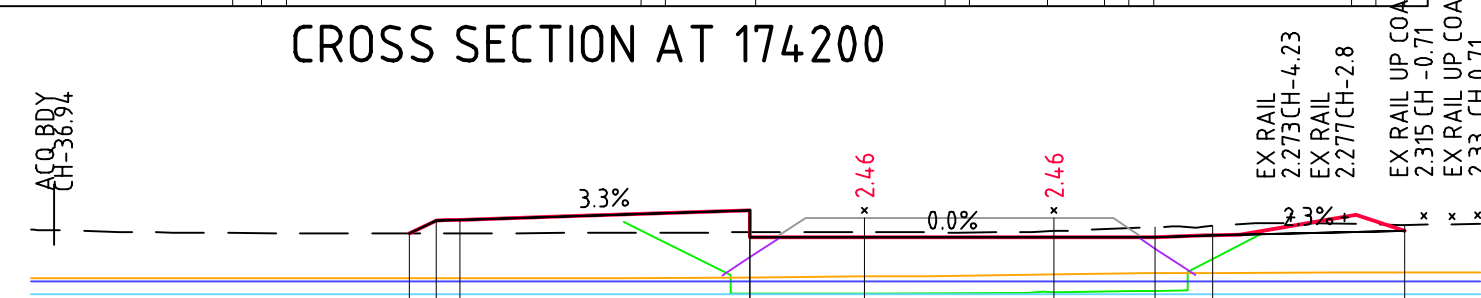
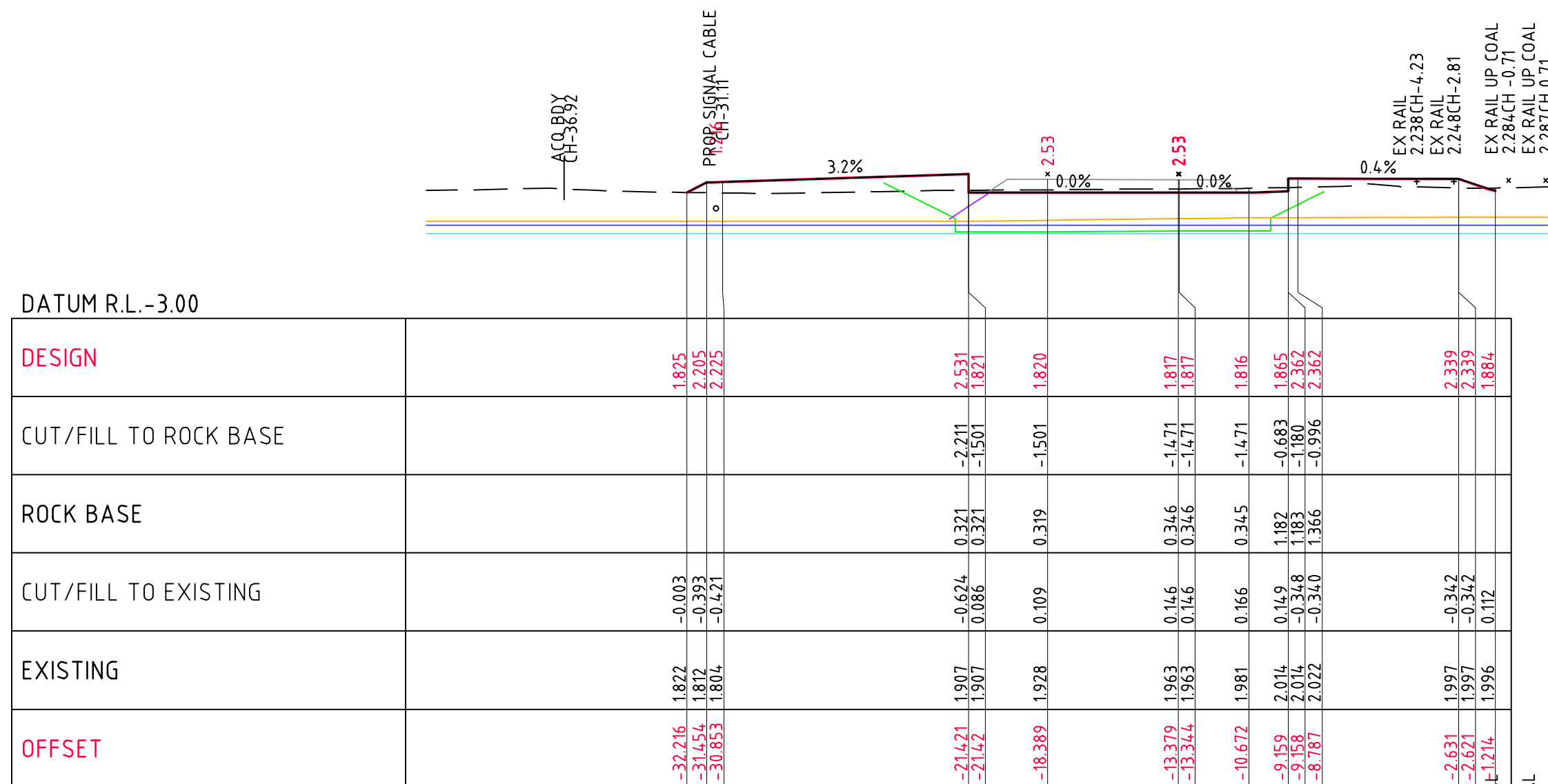
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- EXISTING SURFACE
 ———— BOTTOM OF ROCK FILL/CUT FLOOR
 ———— BASE OF EXISTING IMPORTED FILL
 ———— GROUND WATER LEVEL DRY CONDITION
 ———— GROUND WATER LEVEL WET CONDITION

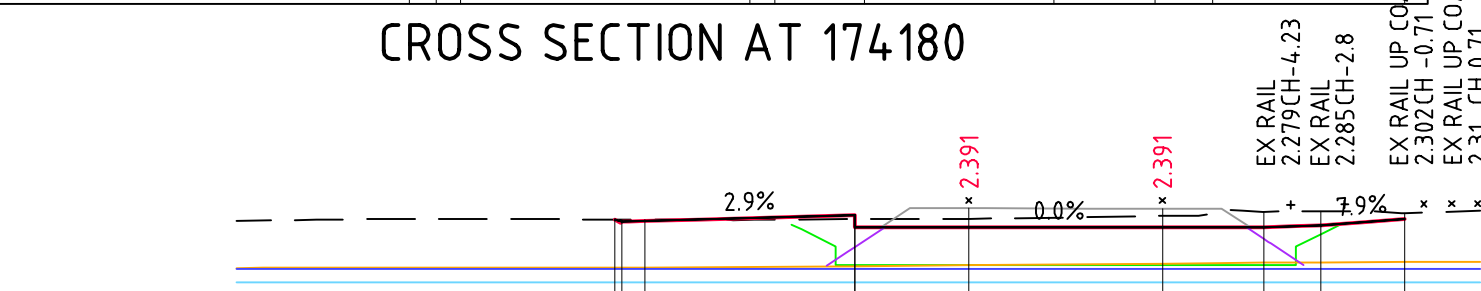
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SHEET 1

SCALE 1:200 @ A3



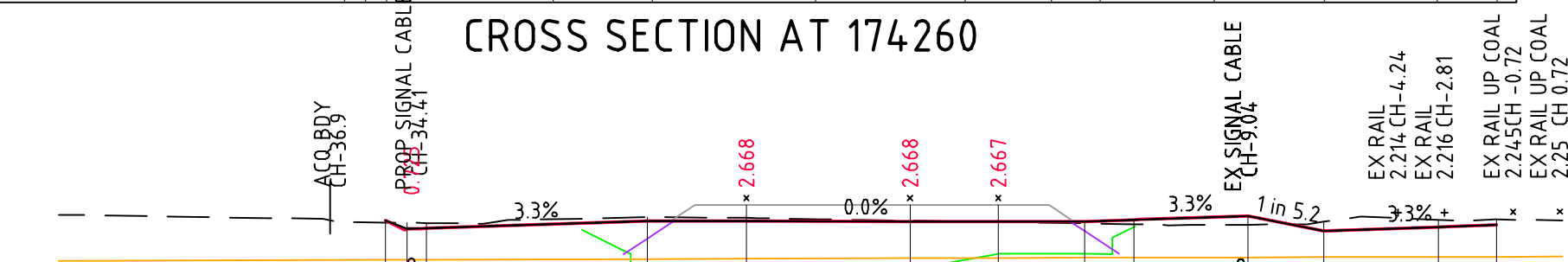
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DESIGN				
CUT/FILL TO ROCK BASE				
ROCK BASE				
CUT/FILL TO EXISTING				
EXISTING				
OFFSET				



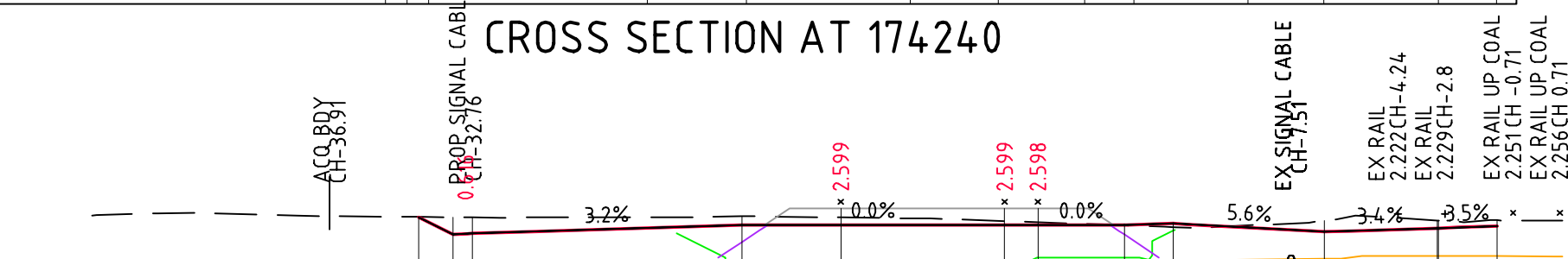
DATUM R.L. - 3.00		
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ROCK BASE		-0.678 -0.678 -0.678
CUT/FILL TO EXISTING		-0.001 0.061 0.042
EXISTING		1.888 1.887 1.885
OFFSET		-22.121 -15.772 -15.771 -12.745 -7.626 -4.949 -3.434 -1.214



DATUM R.L.-3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					



DATUM R.L.-3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					



DATUM R.L. -3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					



LEGEND

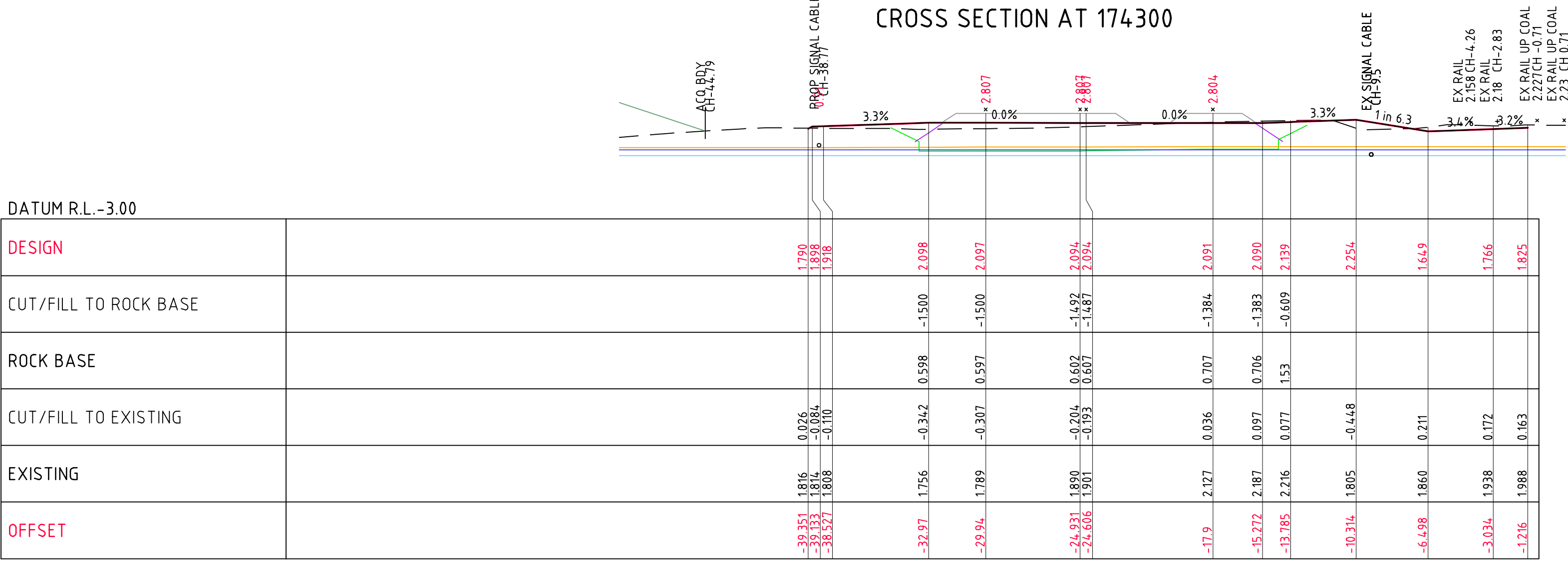
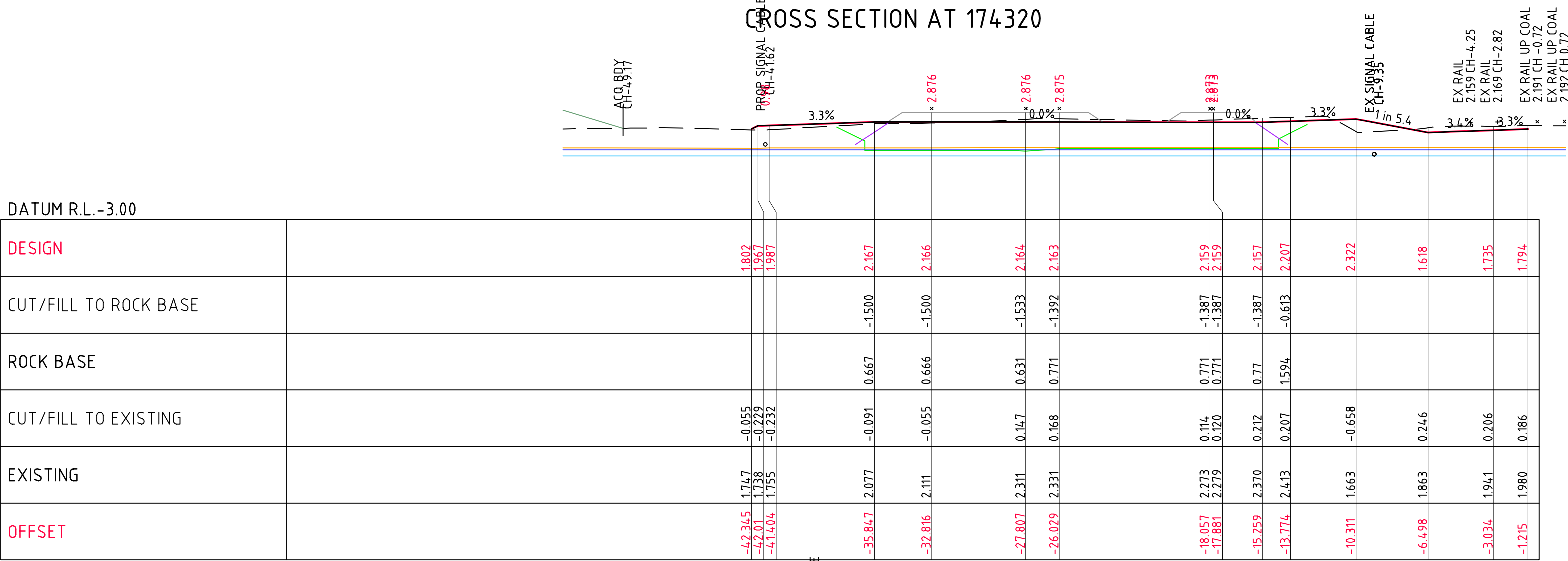
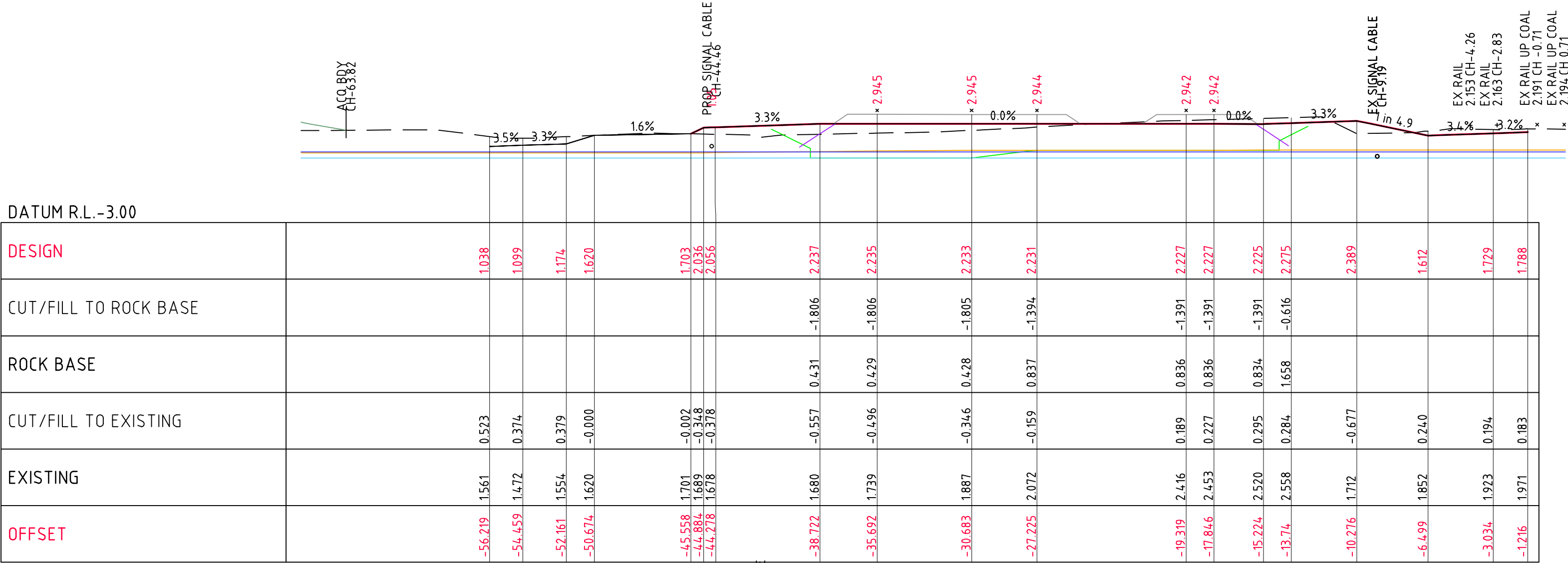
- DESIGN SURFACE
EXISTING SURFACE
BOTTOM OF ROCK FILL/CUT FLOOR
BASE OF EXISTING IMPORTED FILL
GROUND WATER LEVEL DRY CONDITION
GROUND WATER LEVEL WET CONDITION

Wednesday, 6 March 2013

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SHEET 2
SCALE 1:200 @ A3

- LEGEND**
- DESIGN SURFACE
 - EXISTING SURFACE
 - BOTTOM OF ROCK FILL/CUT FLOOR
 - BASE OF EXISTING IMPORTED FILL
 - GROUND WATER LEVEL DRY CONDITION
 - GROUND WATER LEVEL WET CONDITION



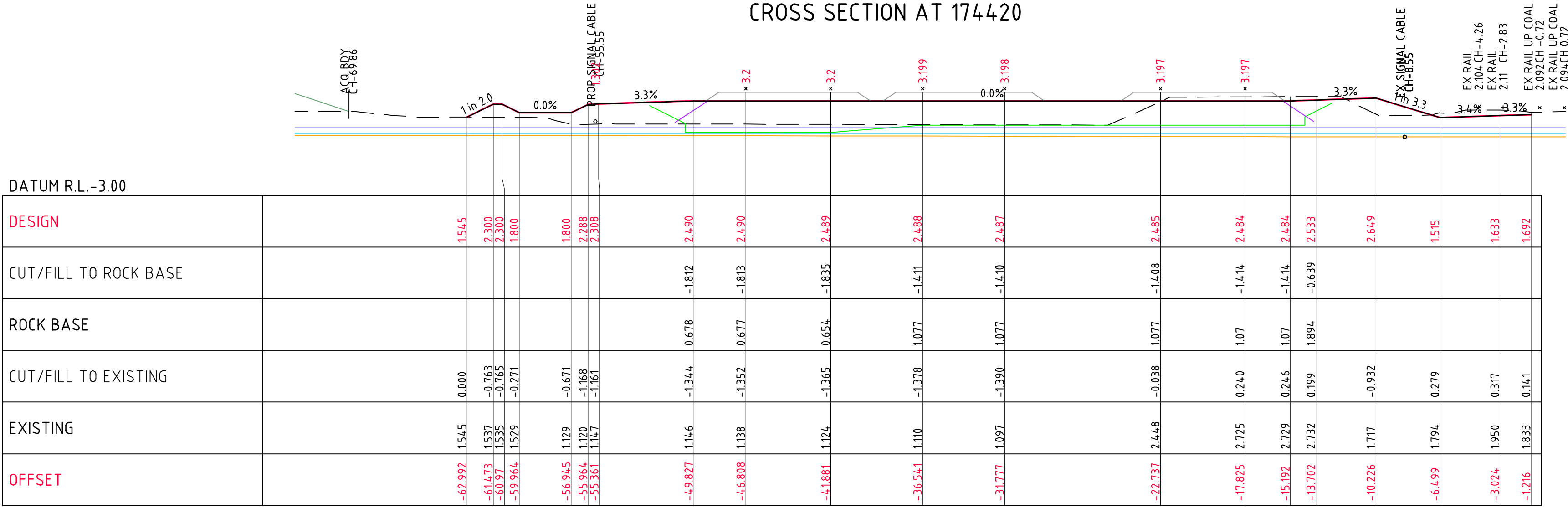
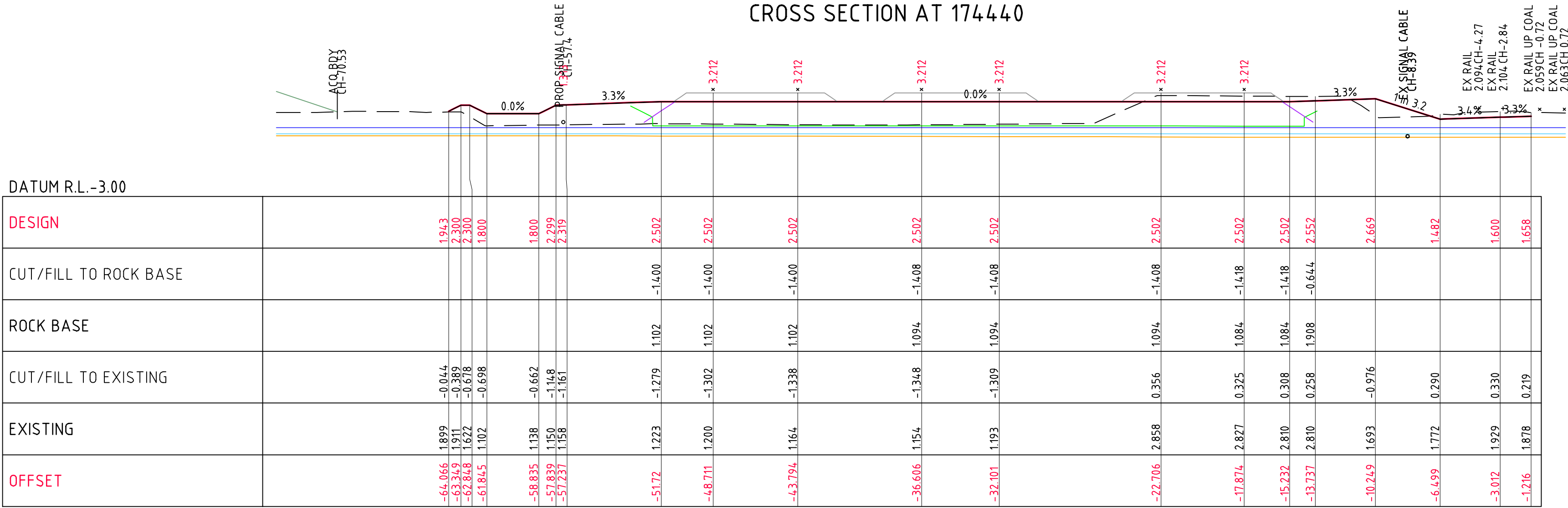
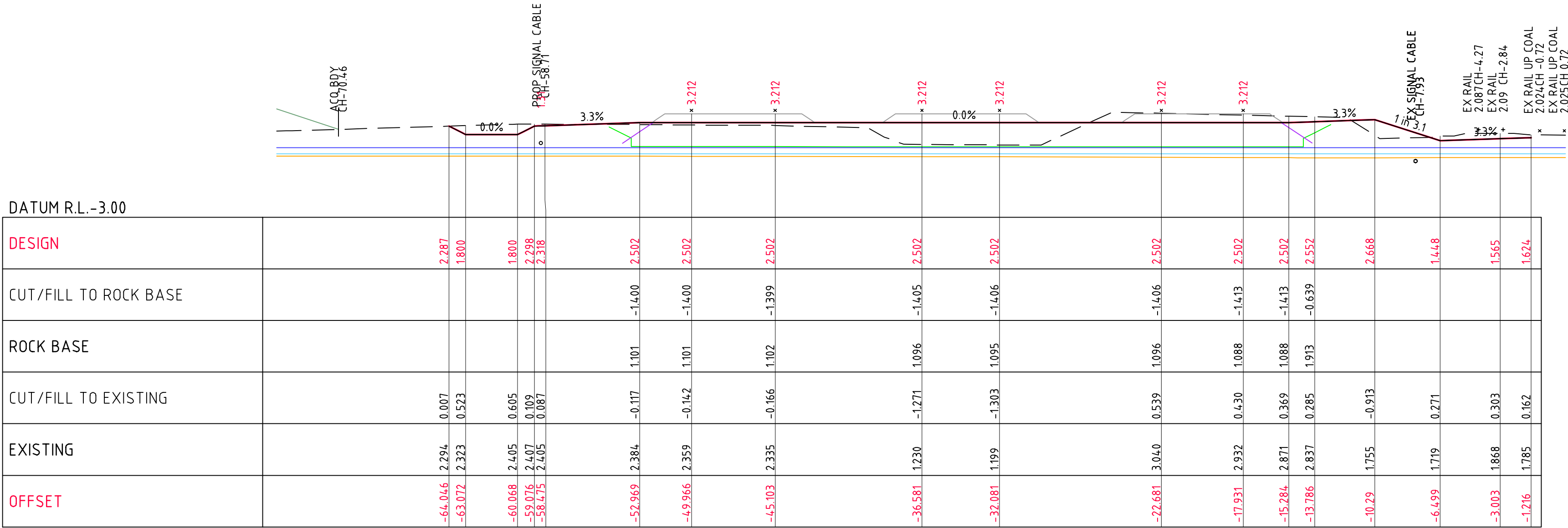
Wednesday, 6 March 2013

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SHEET 3
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



Wednesday, 6 March 2013

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SHEET 5
SCALE 1:200 @ A3

LEGEND

DESIGN SURFACE

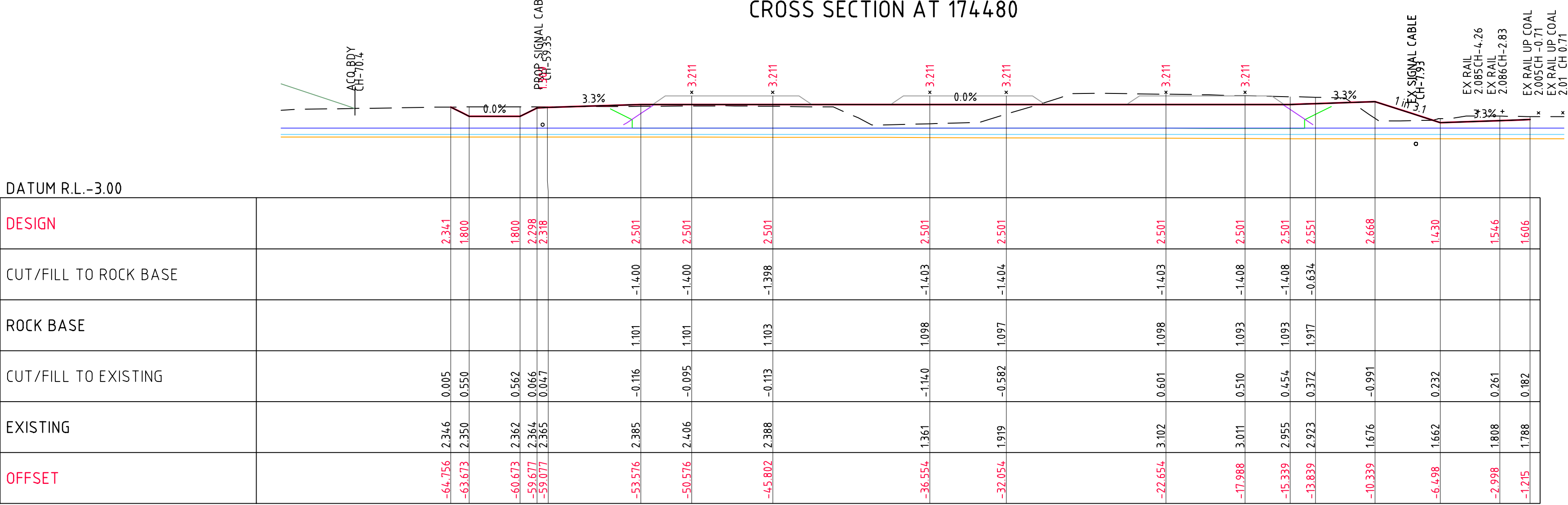
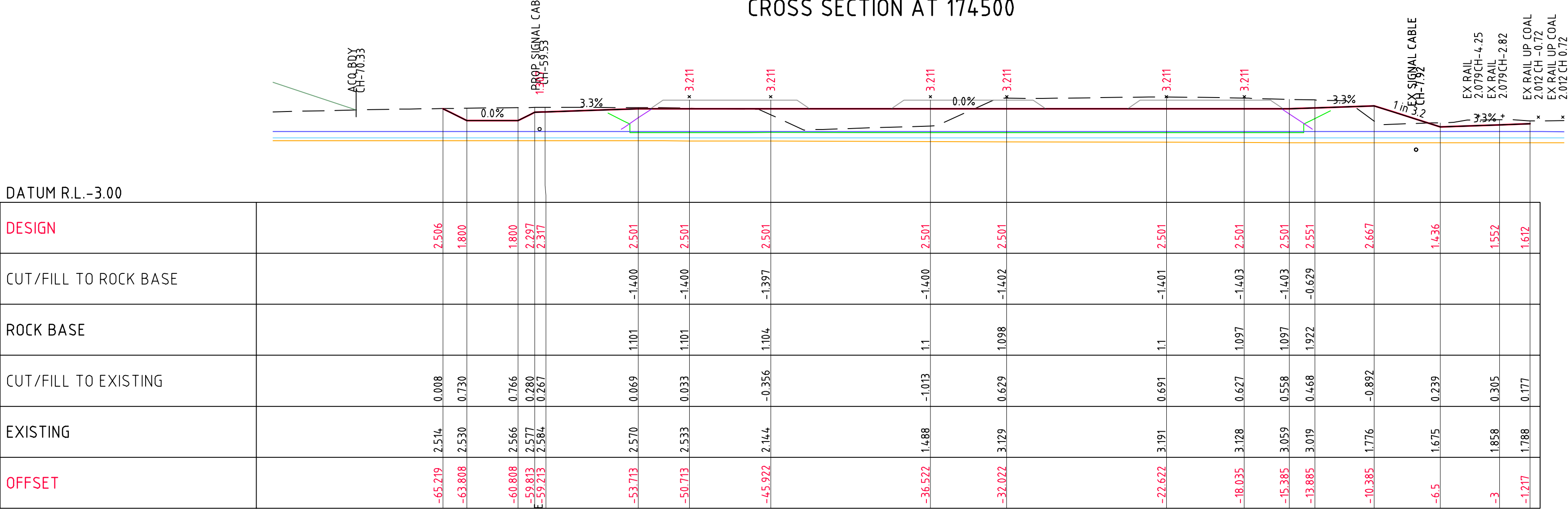
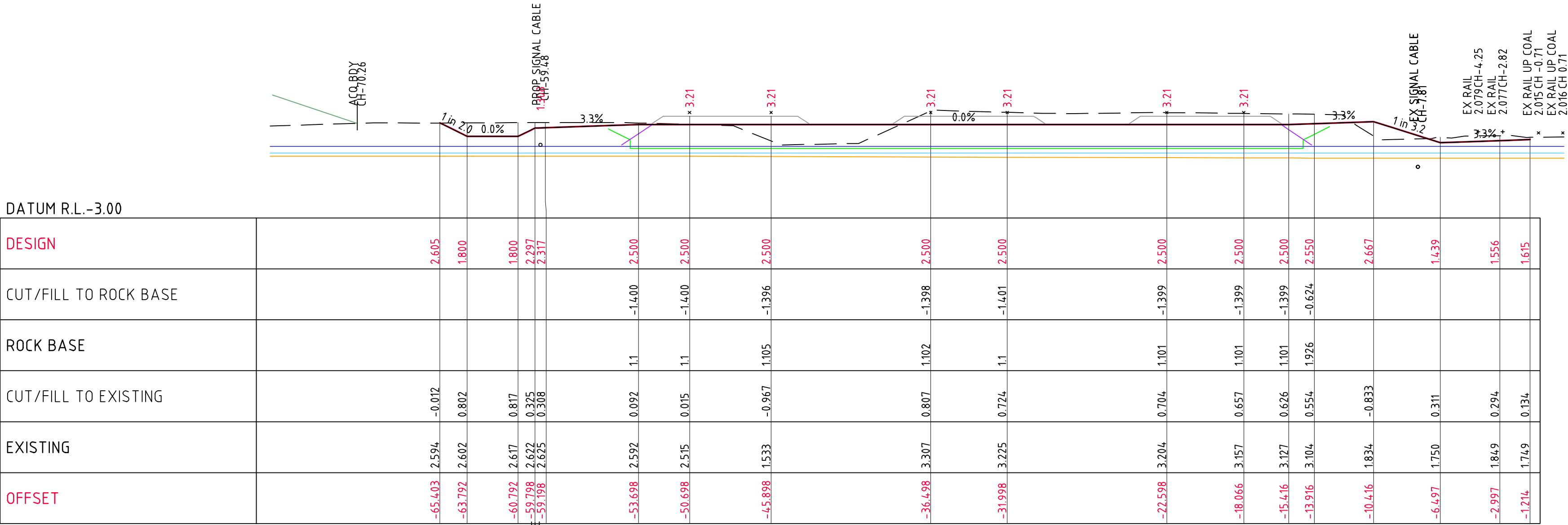
EXISTING SURFACE

BOTTOM OF ROCK FILL/CUT FLOOR

BASE OF EXISTING IMPORTED FILL

GROUND WATER LEVEL DRY CONDITION

GROUND WATER LEVEL WET CONDITION



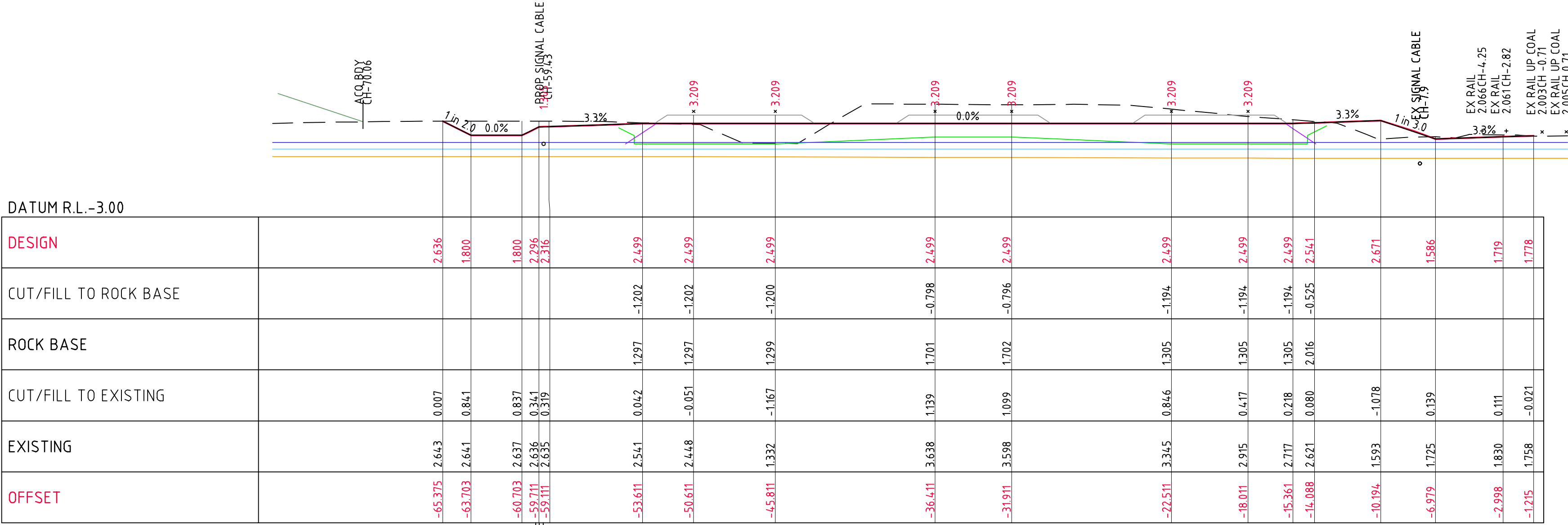
Wednesday, 6 March 2013

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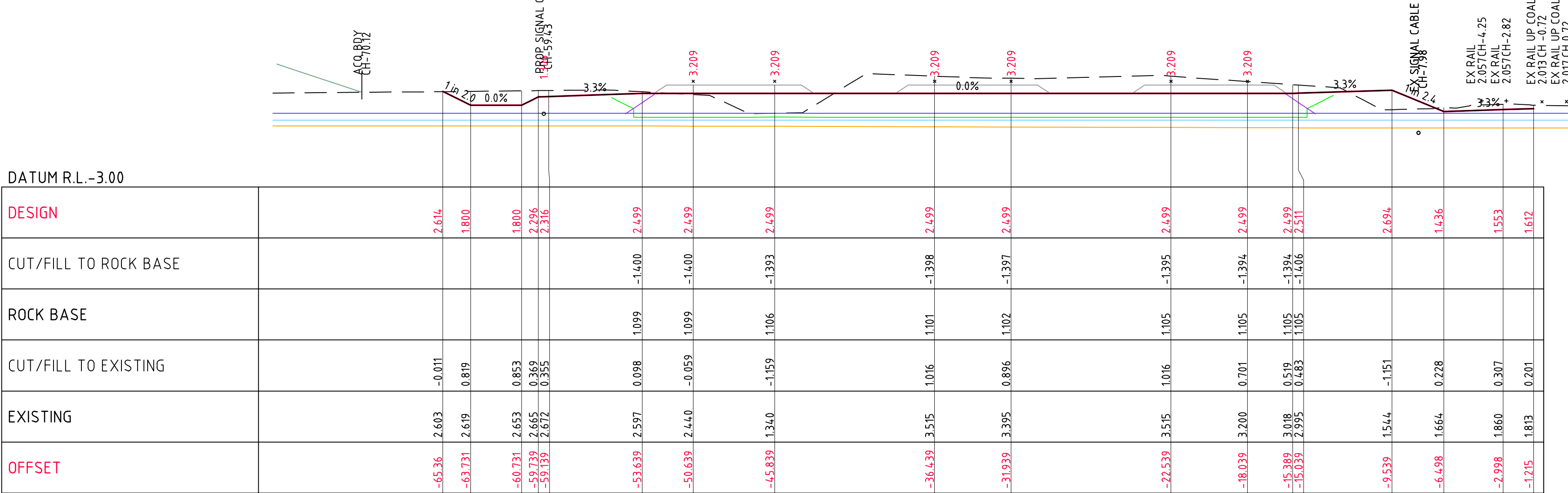
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SCALE 1:200 @ A3

LEGEND

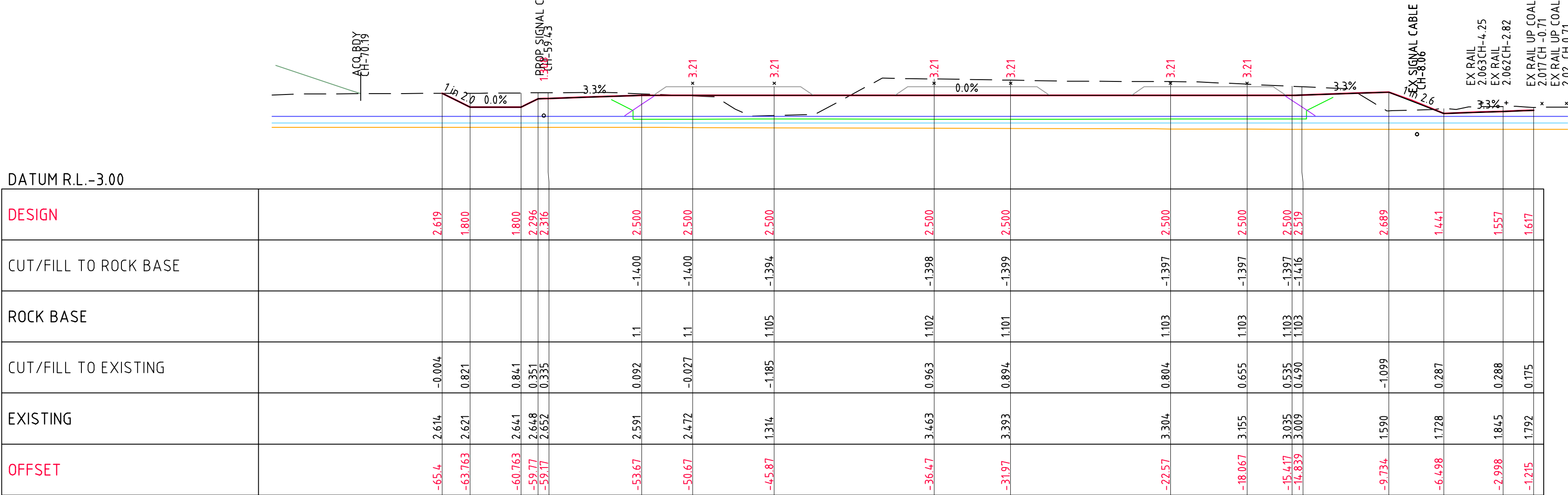
- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



CROSS SECTION AT 174560



CROSS SECTION AT 174540



CROSS SECTION AT 174520

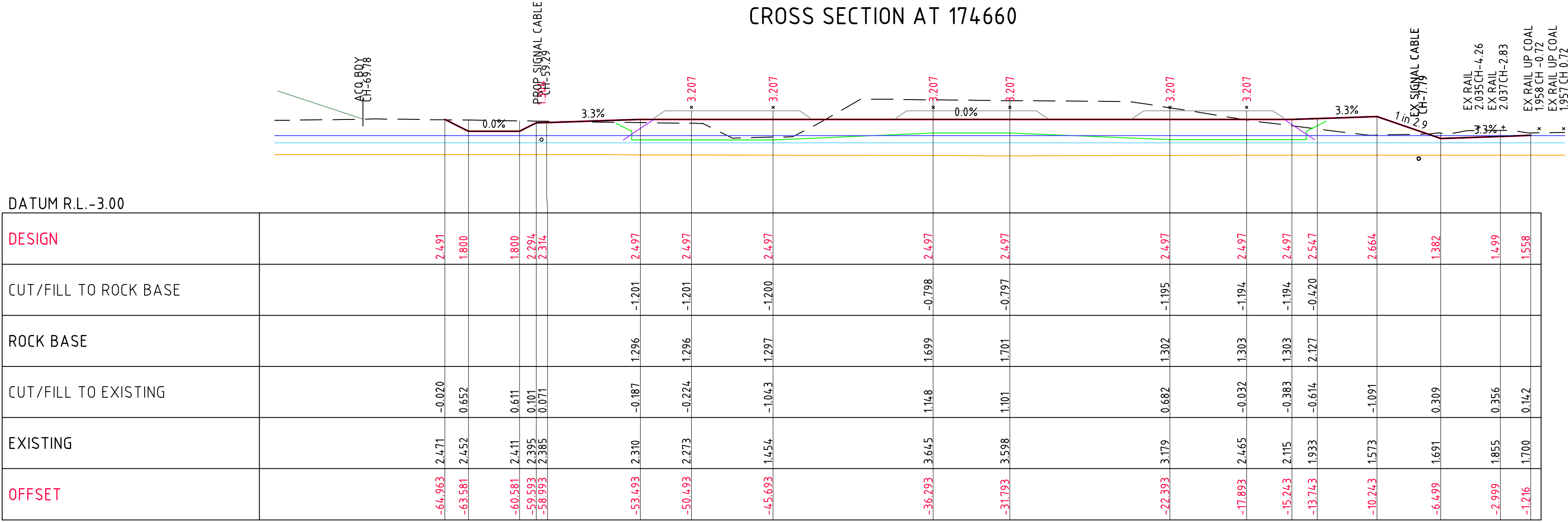
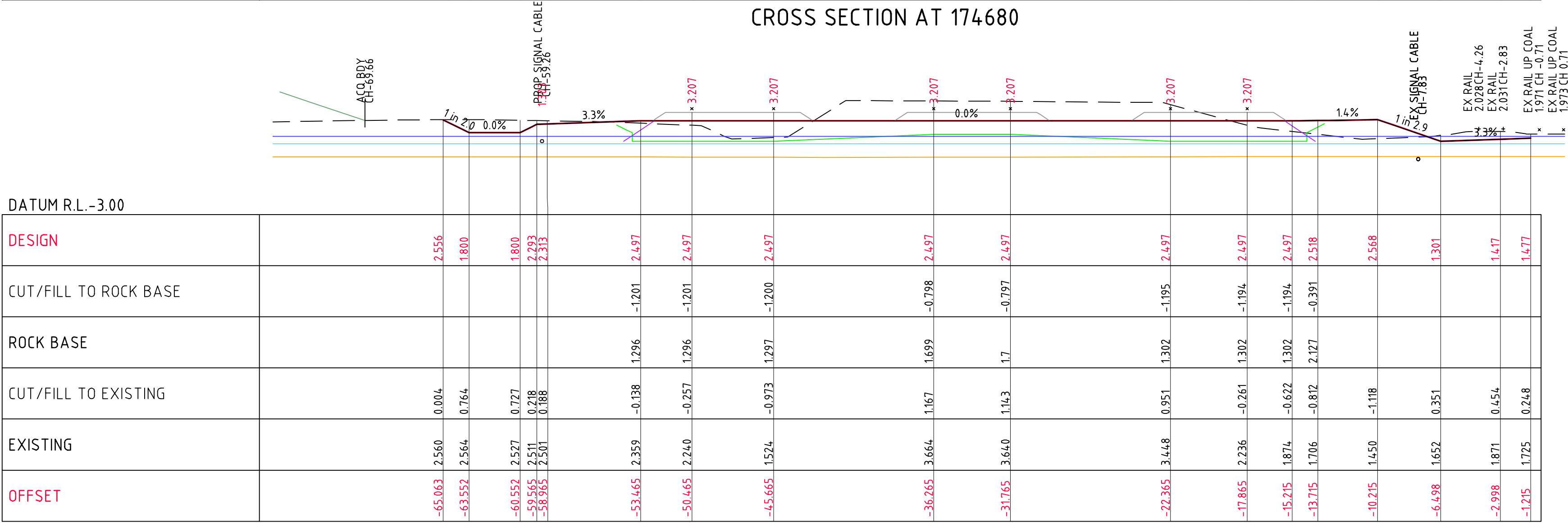
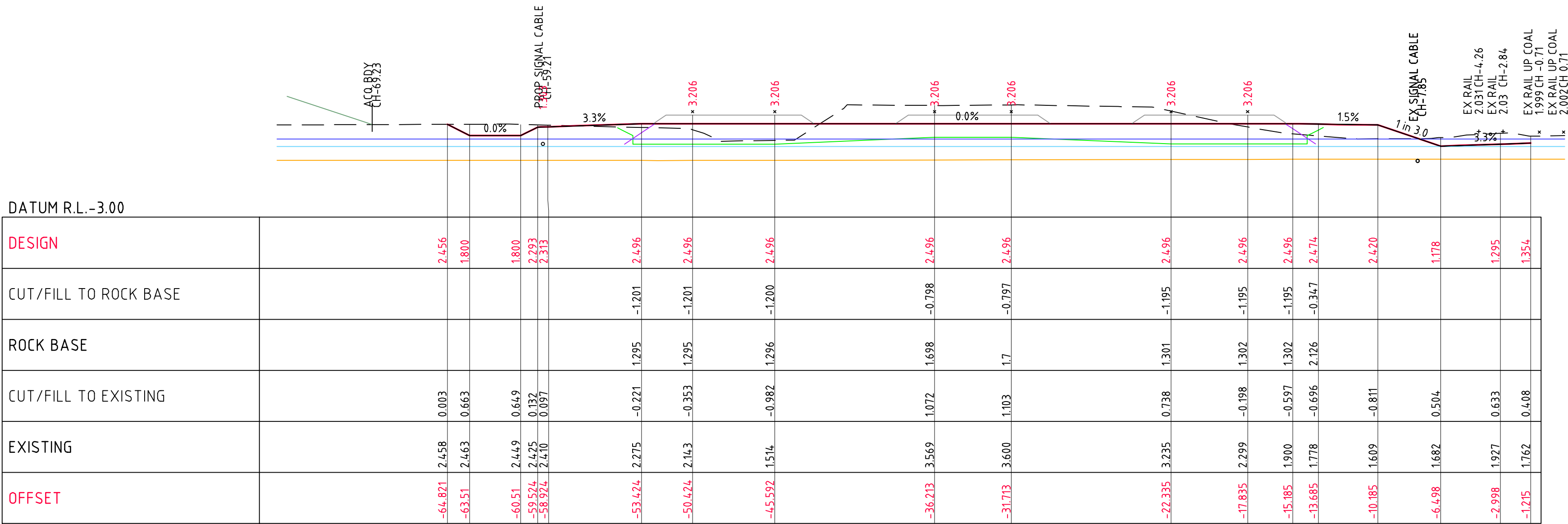
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SHEET 7
SCALE 1:200 @ A3

LEGEND

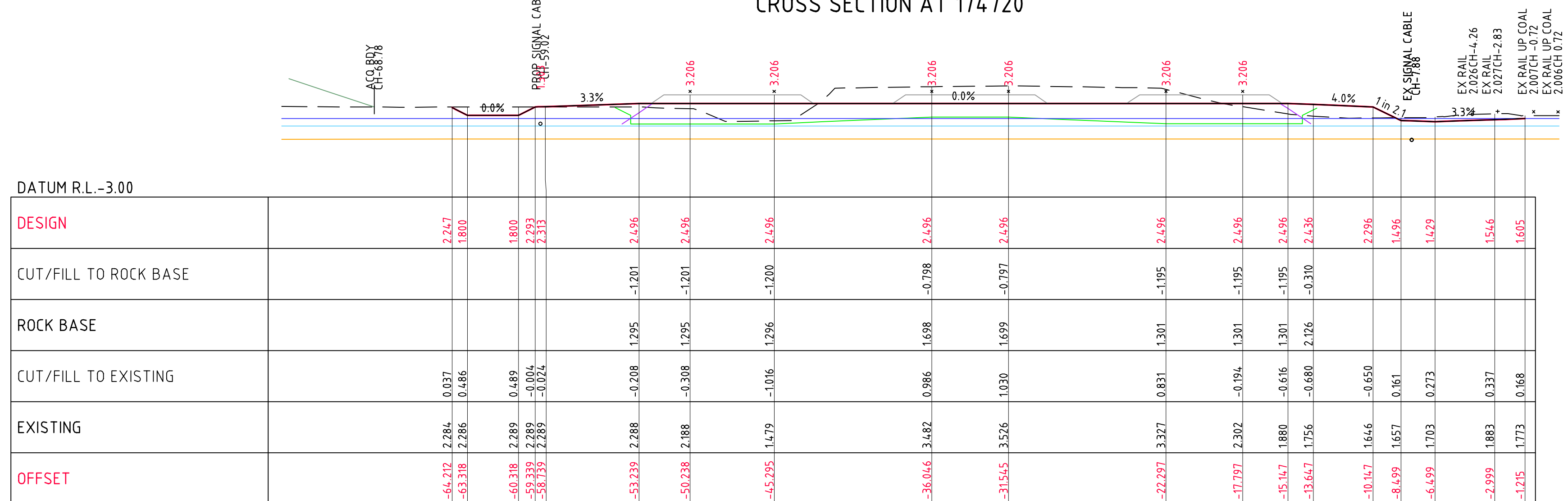
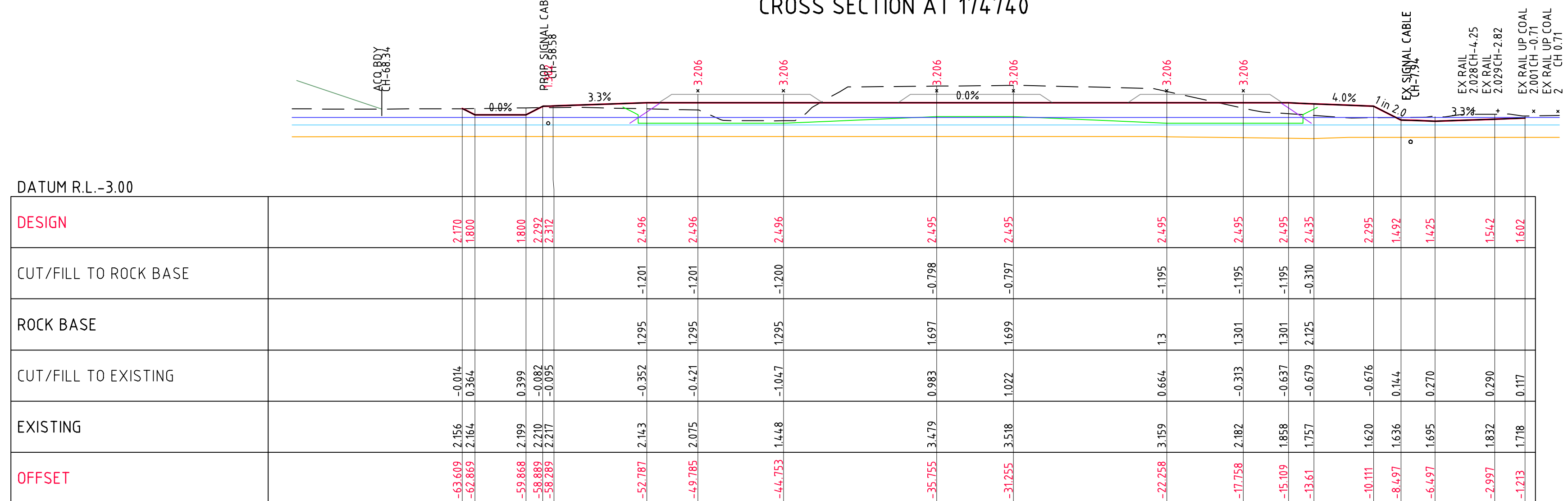
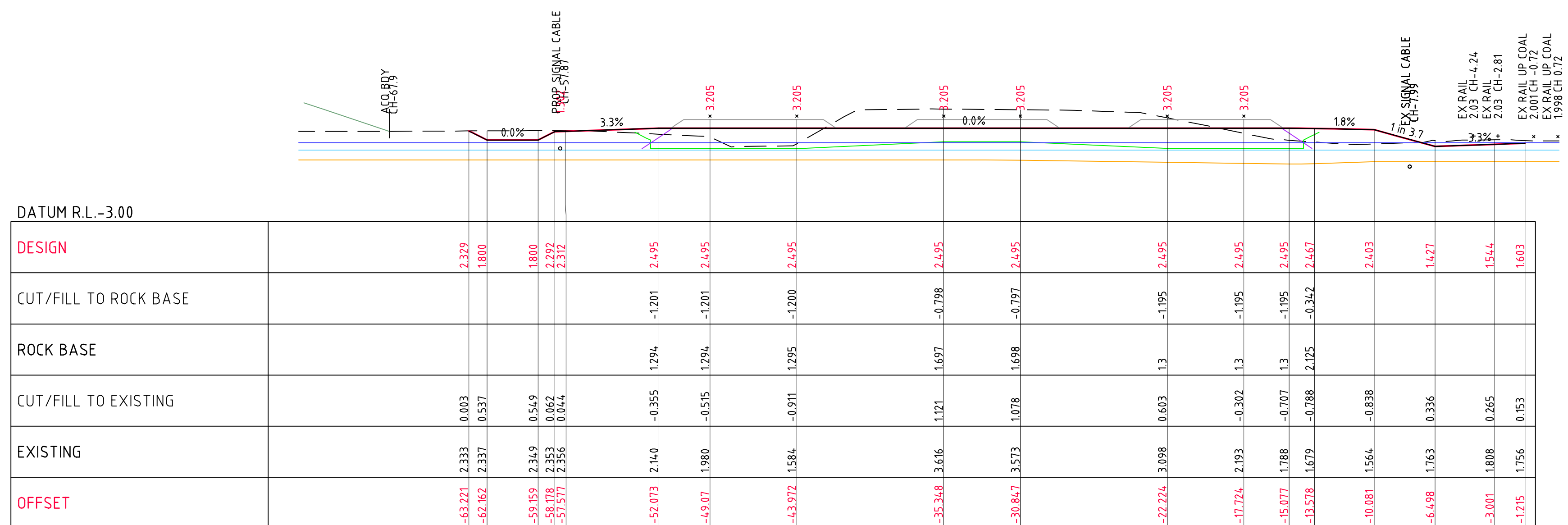
- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



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SHEET 9
SCALE 1:200 @ A3



LEGEND

- DESIGN SURFACE
EXISTING SURFACE
BOTTOM OF ROCK FILL/CUT FLOOR
BASE OF EXISTING IMPORTED FILL
GROUND WATER LEVEL DRY CONDITION
GROUND WATER LEVEL WET CONDITION

Wednesday, 6 March 2013

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SHEET 10
SCALE 1:200 @ A3

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LEGEND

- | | |
|---|----------------------------------|
| | DESIGN SURFACE |
|  | EXISTING SURFACE |
| | BOTTOM OF ROCK FILL/CUT FLOOR |
|  | BASE OF EXISTING IMPORTED FILL |
| | GROUND WATER LEVEL DRY CONDITION |
| | GROUND WATER LEVEL WET CONDITION |

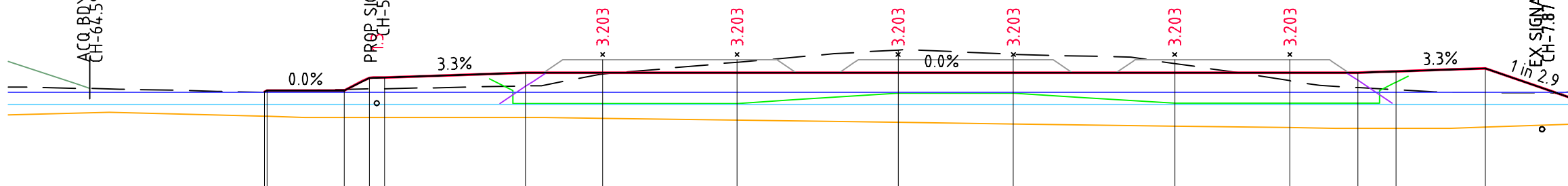
Wednesday, 6 March 2013

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SHEET 11
SCALE 1:200 @ A3

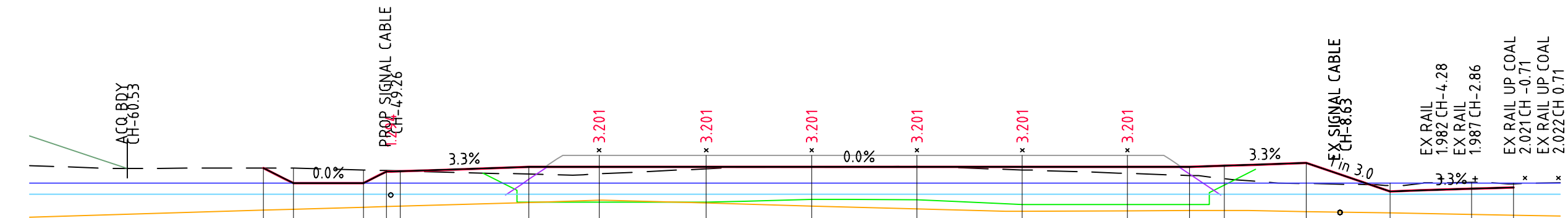
CROSS SECTION AT 174840

SHEET 12
SCALE 1:200 @ A3

	CROSS SECTION AT 17484.0					
						
	DATUM R.L. -3.00					
DESIGN						
CUT/FILL TO ROCK BASE						
ROCK BASE						
CUT/FILL TO EXISTING						
EXISTING						
OFFSET						

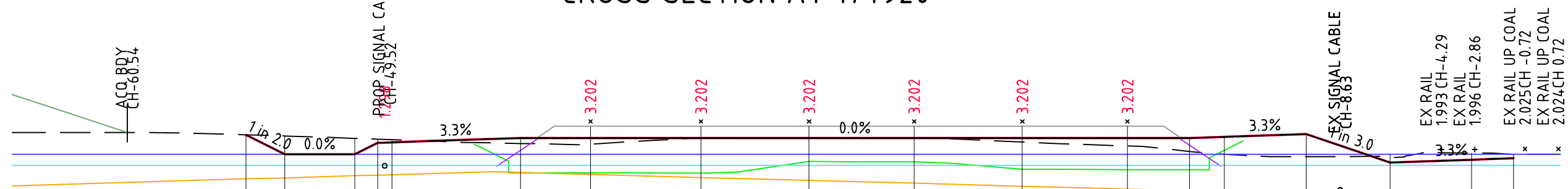
LEGEND

 DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION



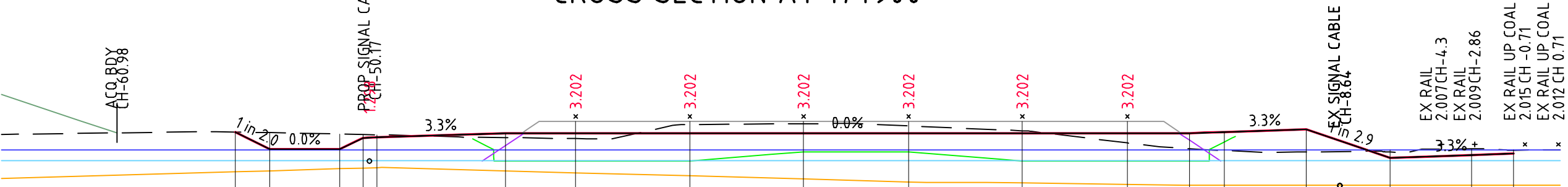
DATUM R.L. -3.00									
DESIGN									
CUT/FILL TO ROCK BASE									
ROCK BASE									
CUT/FILL TO EXISTING									
EXISTING									
OFFSET									
	-54.709	2.450	0.009						
	-53.428	2.442	0.642						
	-50.428	2.361	0.561						
	-49.445	2.335	0.627						
	-48.845	2.319	0.011						
	-43.344	2.184	-0.307	0.993	-14.98	2.491			
	-40.344	2.194	-0.297	0.993	-14.98	2.491			
	-35.76	2.143	-0.078	0.991	-15.00	2.491			
	-31.246	2.482	-0.010	1.102	-13.89	2.491			
	-26.746	2.514	0.023	1.094	-13.98	2.491			
	-22.231	2.366	-0.125	0.895	-15.96	2.491			
	-17.731	2.218	-0.273	0.895	-15.96	2.491			
	-15.081	2.190	-0.362	0.895	-15.96	2.491			
	-13.581	1.990	-0.551	1.172	-0.821	2.541			
	-10.081	1.782	-0.876			2.658			
	-6.498	1.695	0.250			1.446			
	-2.998	1.827	0.264			1.562			
	-1.215	1.768	0.147			1.622			

CROSS SECTION AT 174920



DATUM R.L.-3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 174900

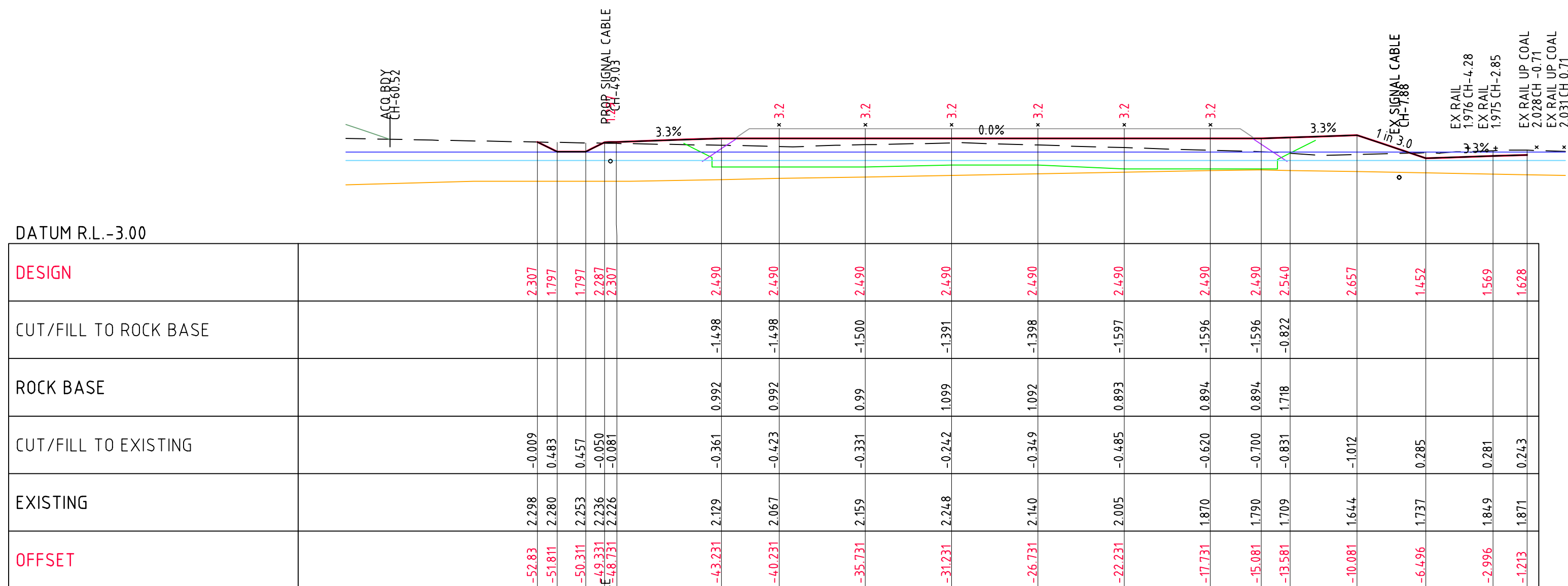
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CROSS SECTION AT 174880

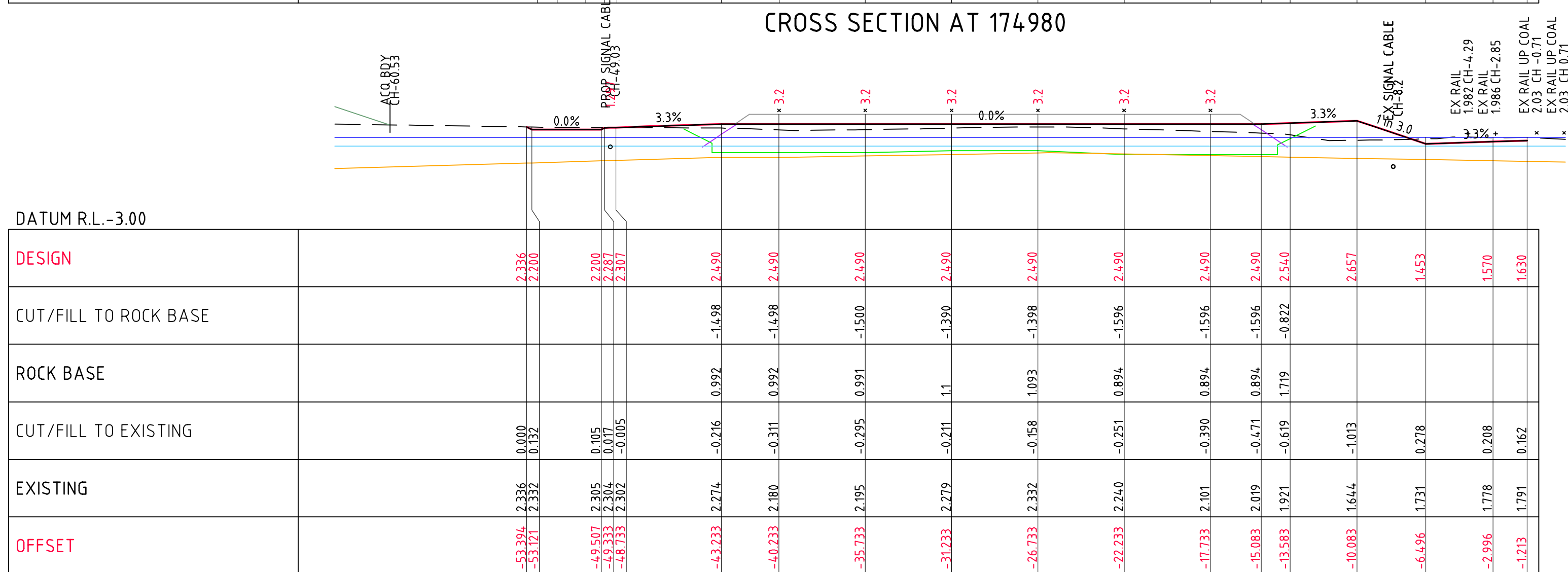
Wednesday, 6 March 2013

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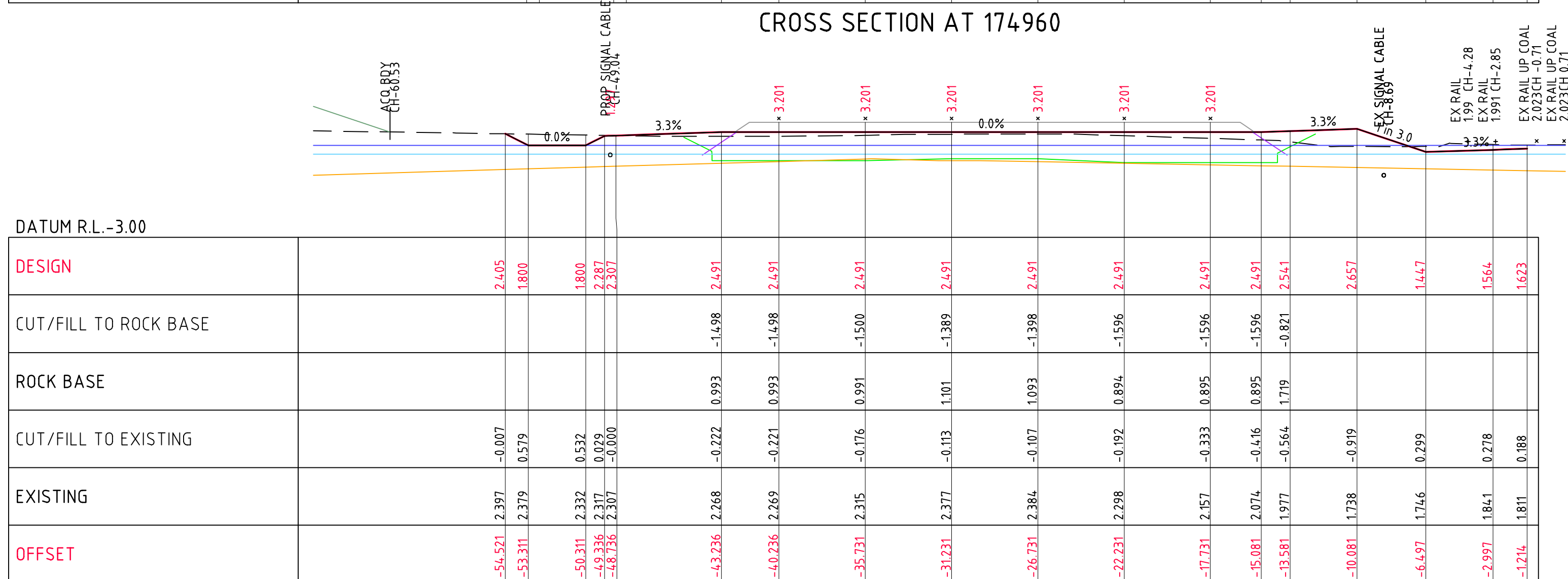
SHEET 13
SCALE 1:200 @ A3



CROSS SECTION AT 174980



CROSS SECTION AT 174960



CROSS SECTION AT 174940

Wednesday, 6 March 2013

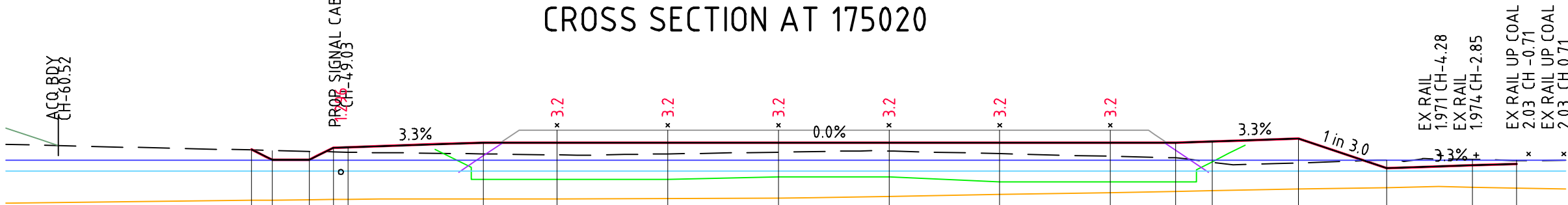
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SHEET 14
SCALE 1:200 @ A3

- LEGEND**
- DESIGN SURFACE
 - EXISTING SURFACE
 - BOTTOM OF ROCK FILL/CUT FLOOR
 - BASE OF EXISTING IMPORTED FILL
 - GROUND WATER LEVEL DRY CONDITION
 - GROUND WATER LEVEL WET CONDITION

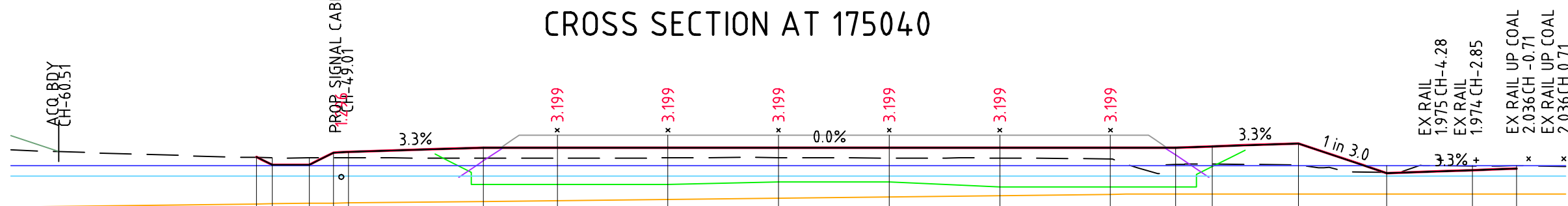
DATUM R.L.-3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175000



DATUM R.L.-3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175020



DATUM R.L.-3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

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SHEET 15
SCALE 1:200 @ A3

Profile view of the proposed signal cable alignment. The diagram shows a cross-section of the ground with a proposed signal cable (red line) and a proposed rail line (blue line). The ground surface is shown in brown. The proposed rail line is 4.25 feet below the ground surface. The proposed signal cable is 2.82 feet below the ground surface. The ground surface has a 3.3% slope. The proposed rail line has a 3.3% slope. The proposed signal cable has a 3.3% slope. The ground surface is labeled "PROPOSED SIGNAL CABLE" and "PROPOSED RAIL LINE". The ground surface is also labeled "EX RAIL 4.25" and "EX RAIL 2.82". The ground surface is also labeled "EX RAIL UP COAL 2.04" and "EX RAIL UP COAL 0.71".

Diagram illustrating the cross-section of a road and railway alignment. The road width is 12m, and the railway width is 1.5m. The diagram shows the road, railway, and surrounding terrain with various elevation points and labels.

Labels and elevations shown in the diagram:

- ACQUEDOTTO (Aqueduct)
- PROPOSIZIONE (Proposed)
- 3.3%
- 3.198
- 0.0%
- 3.198
- 3.198
- 3.198
- 3.198
- 3.3%
- 1 in 2.9
- 3.3%+
- EX RAIL CH-4
- EX RAIL CH-2
- EX RAIL CH-1
- EX RAIL CH-3
- EX RAIL CH-5
- EX RAIL CH-6
- EX RAIL CH-7
- EX RAIL CH-8
- EX RAIL CH-9
- EX RAIL CH-10
- EX RAIL CH-11
- EX RAIL CH-12
- EX RAIL CH-13
- EX RAIL CH-14
- EX RAIL CH-15
- EX RAIL CH-16
- EX RAIL CH-17
- EX RAIL CH-18
- EX RAIL CH-19
- EX RAIL CH-20
- EX RAIL CH-21
- EX RAIL CH-22
- EX RAIL CH-23
- EX RAIL CH-24
- EX RAIL CH-25
- EX RAIL CH-26
- EX RAIL CH-27
- EX RAIL CH-28
- EX RAIL CH-29
- EX RAIL CH-30
- EX RAIL CH-31
- EX RAIL CH-32
- EX RAIL CH-33
- EX RAIL CH-34
- EX RAIL CH-35
- EX RAIL CH-36
- EX RAIL CH-37
- EX RAIL CH-38
- EX RAIL CH-39
- EX RAIL CH-40
- EX RAIL CH-41
- EX RAIL CH-42
- EX RAIL CH-43
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- EX RAIL CH-90
- EX RAIL CH-91
- EX RAIL CH-92
- EX RAIL CH-93
- EX RAIL CH-94
- EX RAIL CH-95
- EX RAIL CH-96
- EX RAIL CH-97
- EX RAIL CH-98
- EX RAIL CH-99
- EX RAIL CH-100

[illegible]

Wednesday, 6 March 2013

 DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION

SHEET 16
SCALE 1:200 @ A3

OFFSET	EXISTING	CUT/FILL TO EXISTING	ROCK BASE	CUT/FILL TO ROCK BASE	DESIGN
-51.992	1776	0.018			1758
-51.868	1776	0.011			1765
-50.368	1762	-0.003			1765
-49.333	1770	-0.512			2283
-48.733	1850	-0.452			2303
-43.233	2020	-0.467	0.987	-14.99	2486
-40.233	1986	-0.500	0.987	-14.99	2486
-35.733	1984	-0.502	0.987	-14.99	2486
-31.233	2013	-0.473	1.088	-1398	2486
-26.733	2045	-0.442	1.088	-1398	2486
-27.233	1950	-0.536	0.889	-1597	2486
-17.733	1849	-0.637	0.889	-1597	2486
-15.083	1903	-0.583	0.889	-1597	2486
-13.583	1933	-0.603	1.713	-0.823	2536
-10.083	1422	-1.231			2653
-6.497	1277	-0.169			1446
-2.997	1763	0.201			1563
-1.214	1781	0.159			1622

- DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION

Wednesday, 6 March 2013

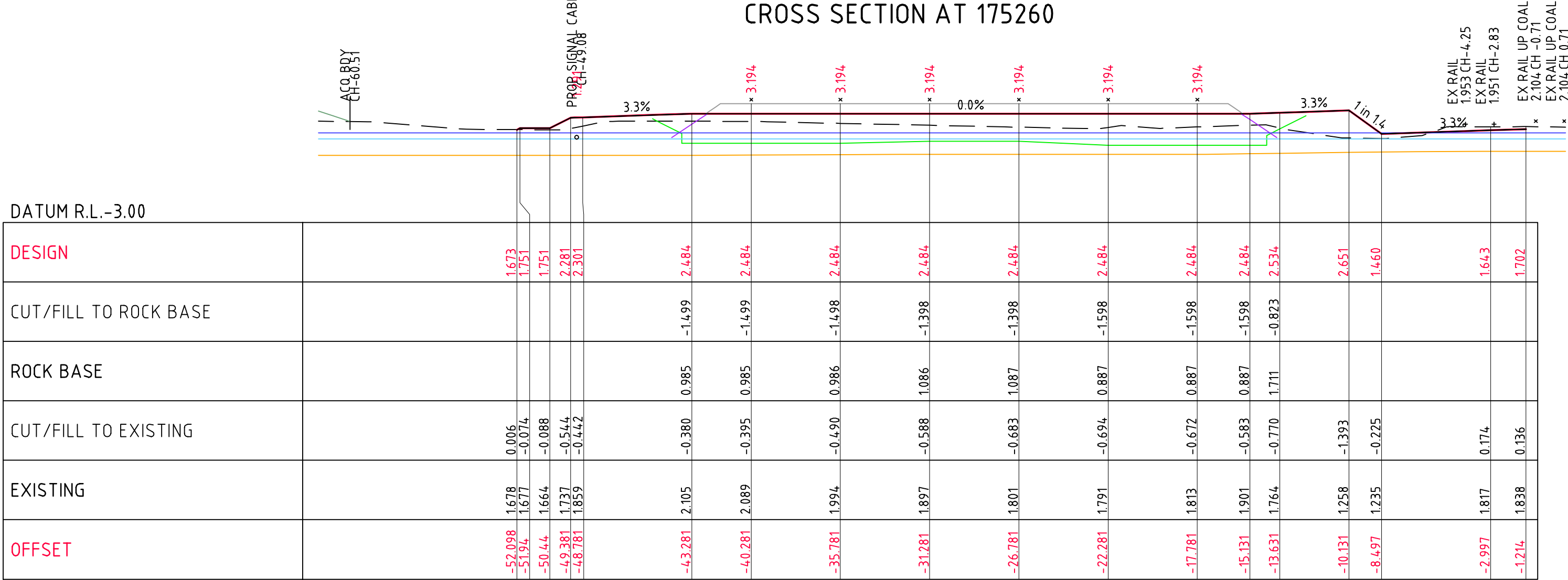
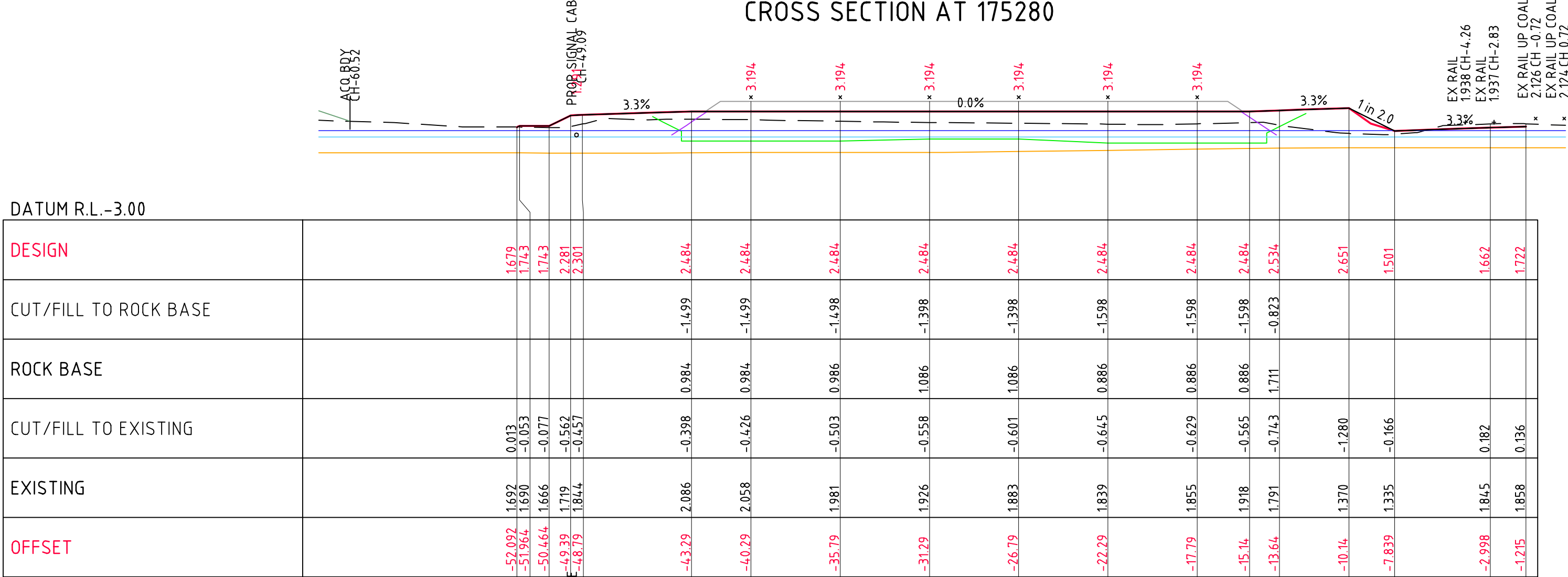
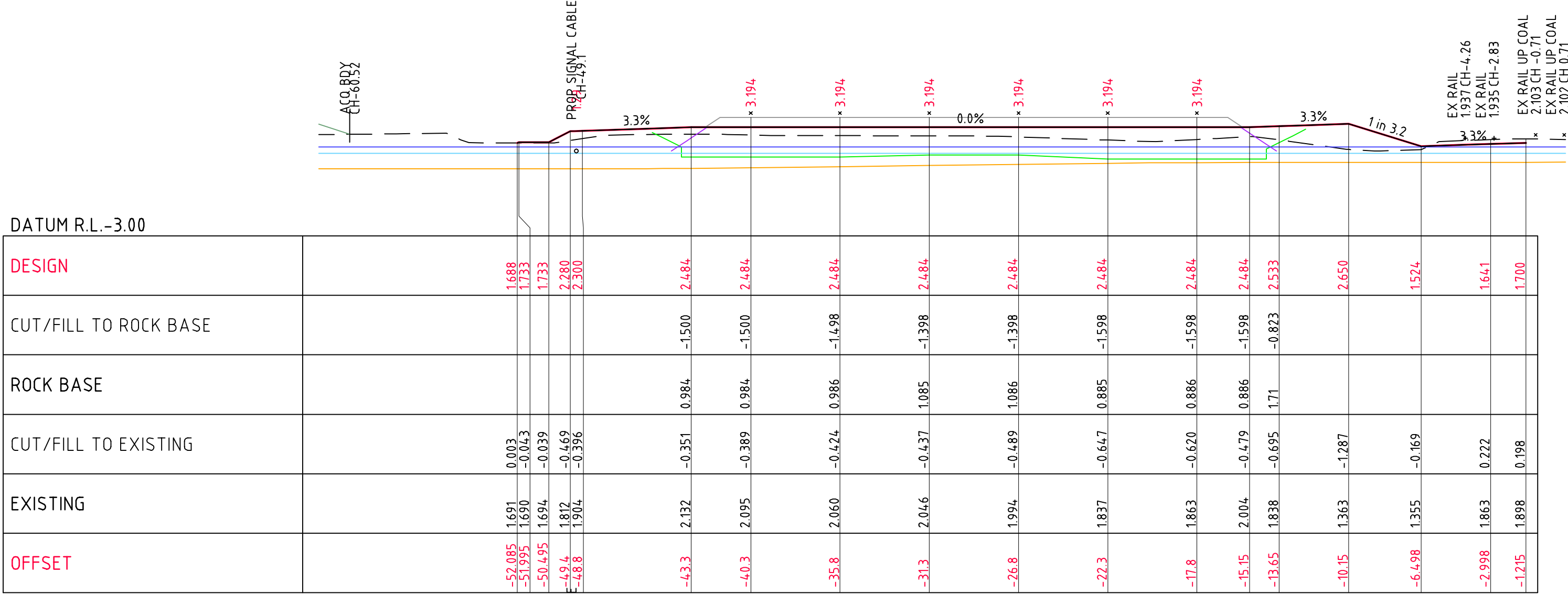
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SHEET 18
SCALE 1:200 @ A3



LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



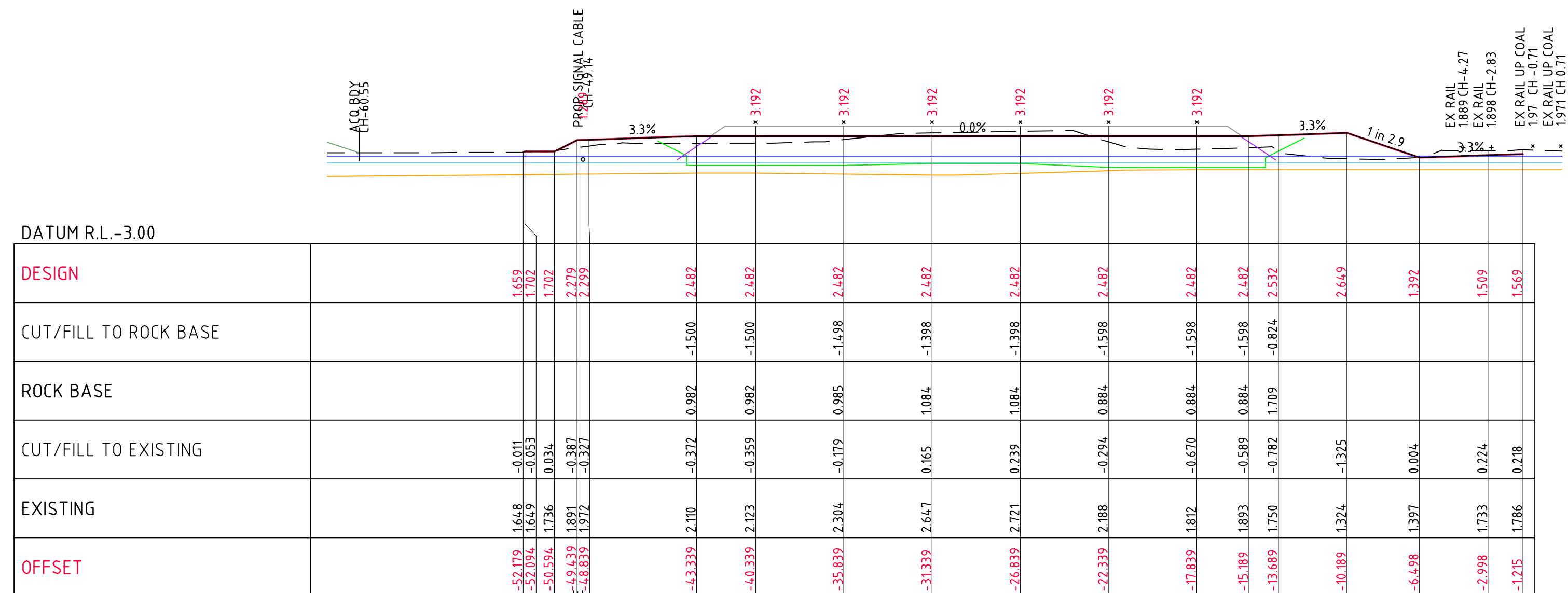
Wednesday, 6 March 2013

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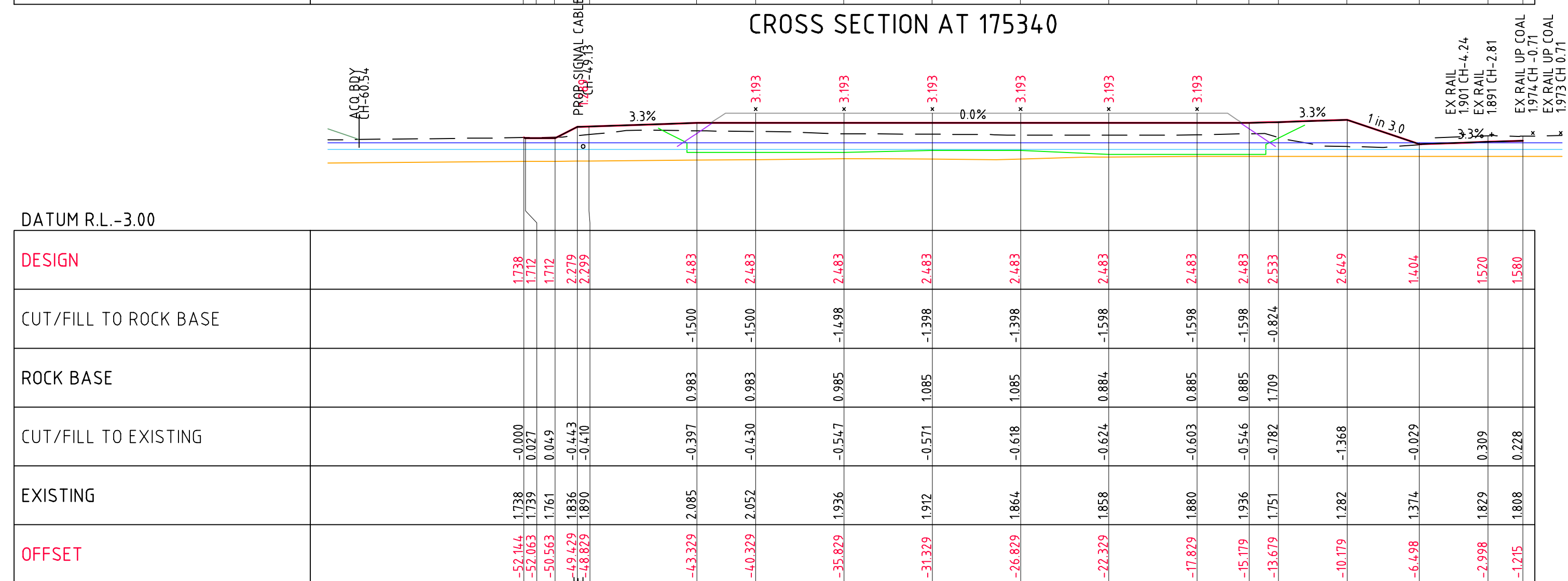
SHEET 19
SCALE 1:200 @ A3

LEGEND

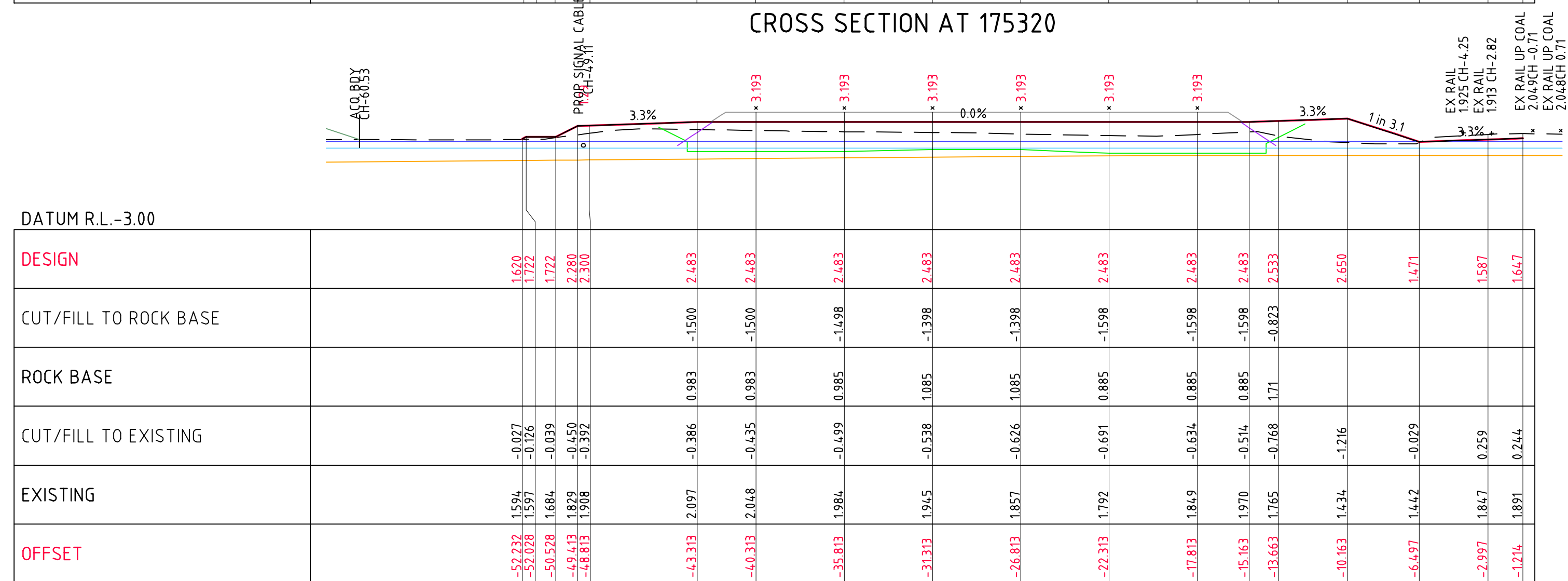
- DESIGN SURFACE
EXISTING SURFACE
BOTTOM OF ROCK FILL/CUT FLOOR
BASE OF EXISTING IMPORTED FILL
GROUND WATER LEVEL DRY CONDITION
GROUND WATER LEVEL WET CONDITION



CROSS SECTION AT 175340



CROSS SECTION AT 175320



CROSS SECTION AT 175300

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SHEET 20
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
EXISTING SURFACE
BOTTOM OF ROCK FILL/CUT FLOOR
BASE OF EXISTING IMPORTED FILL
GROUND WATER LEVEL DRY CONDITION
GROUND WATER LEVEL WET CONDITION

OFFSET	EXISTING	CUT/FILL TO EXISTING	ROCK BASE	CUT/FILL TO ROCK BASE	DESIGN
-54.075	2.810	0.220			2.590
-52.195	2.890	1.220			1.670
-50.685	2.777	1.107			1.670
-49.466	2.683	0.403			2.280
-48.866	2.817	0.317			2.380
-43.366	2.065	-0.418	0.982	-1.501	2.483
-40.366	2.001	-0.482	0.982	-1.501	2.483
-35.866	2.039	-0.444	0.985	-1.498	2.483
-31.366	2.720	0.236	1.084	-1.399	2.483
-26.866	2.045	-0.438	1.084	-1.399	2.483
-22.366	1.496	-0.987	0.883	-1.600	2.483
-17.866	1.868	-0.615	0.883	-1.600	2.483
-15.216	1.944	-0.539	0.883	-1.600	2.483
-13.716	1.925	-0.608	1.708	-0.825	2.533
-10.216	1.336	-1.314			2.650
-6.497	1.394	-0.023			1.416
-2.997	1.690	0.157			1.533
-1.214	1.752	0.159			1.593

CROSS SECTION AT 175400

	CROSS SECTION AT 175+00					
DESIGN						
CUT/FILL TO ROCK BASE						
ROCK BASE						
CUT/FILL TO EXISTING						
EXISTING						
OFFSET						

CROSS SECTION AT 175380

	STATION	PROPOSED GRADE	EXISTING GRADE	CUT/FILL TO EXISTING	ROCK BASE	CUT/FILL TO ROCK BASE	DESIGN
	1+00.00	-52.372	1726	-0.090			1816
	1+05.00	-50.122	1725	0.034			1691
	1+10.00	-50.622	1779	0.087			1691
	1+15.00	-49.648	1876	-0.492			2278
	1+20.00	-48.868	1926	-0.313			2428
	1+25.00	-43.348	2055	-0.427	0.982	-1500	2482
	1+30.00	-40.348	2076	-0.406	0.982	-1500	2482
	1+35.00	-35.848	2419	-0.063	0.984	-1497	2482
	1+40.00	-31.348	2921	0.440	1.084	-1398	2482
	1+45.00	-26.847	2775	0.243	1.084	-1398	2482
	1+50.00	-22.347	1808	-0.673	0.883	-1598	2482
	1+55.00	-17.847	1766	-0.716	0.883	-1598	2482
	1+60.00	-15.197	1793	-0.689	0.883	-1598	2482
	1+65.00	-13.697	1720	-0.812	1.708	-0.824	2532
	1+70.00	-10.197	1343	-1.305			2648
	1+75.00	-6.696	1339	-0.038			1377
	1+80.00	-2.996	1654	0.161			1493
	1+85.00	-1.213	1639	0.086			1553

CROSS SECTION AT 175360

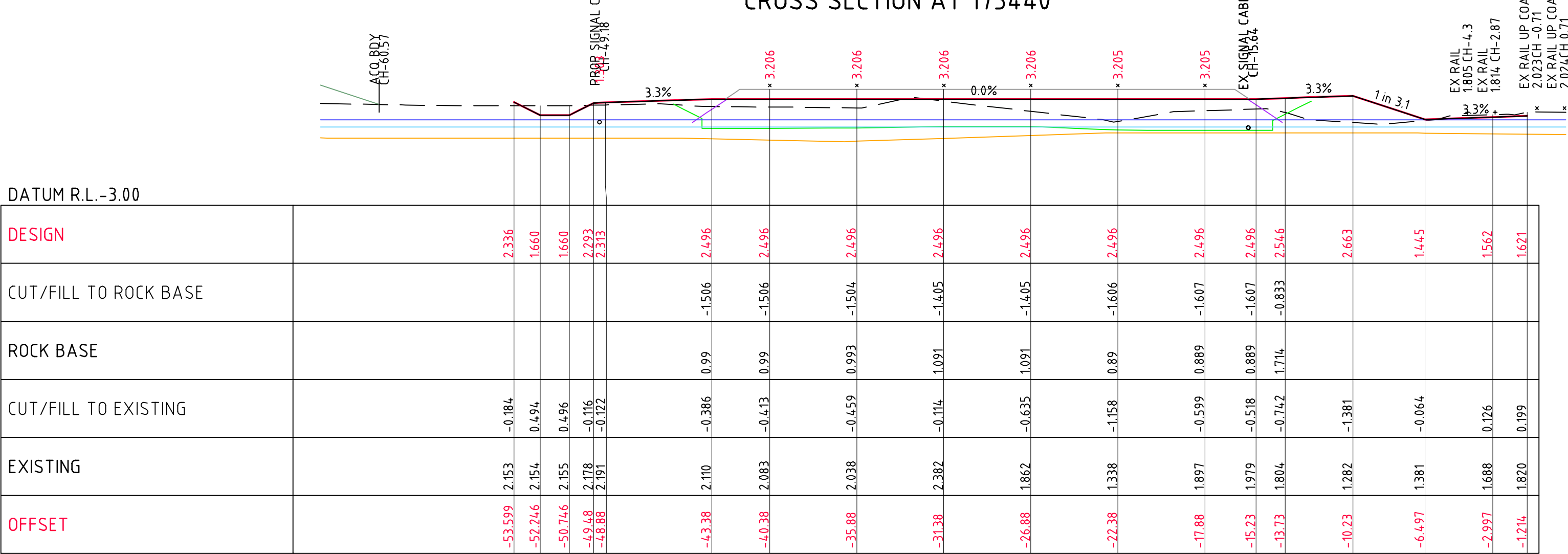
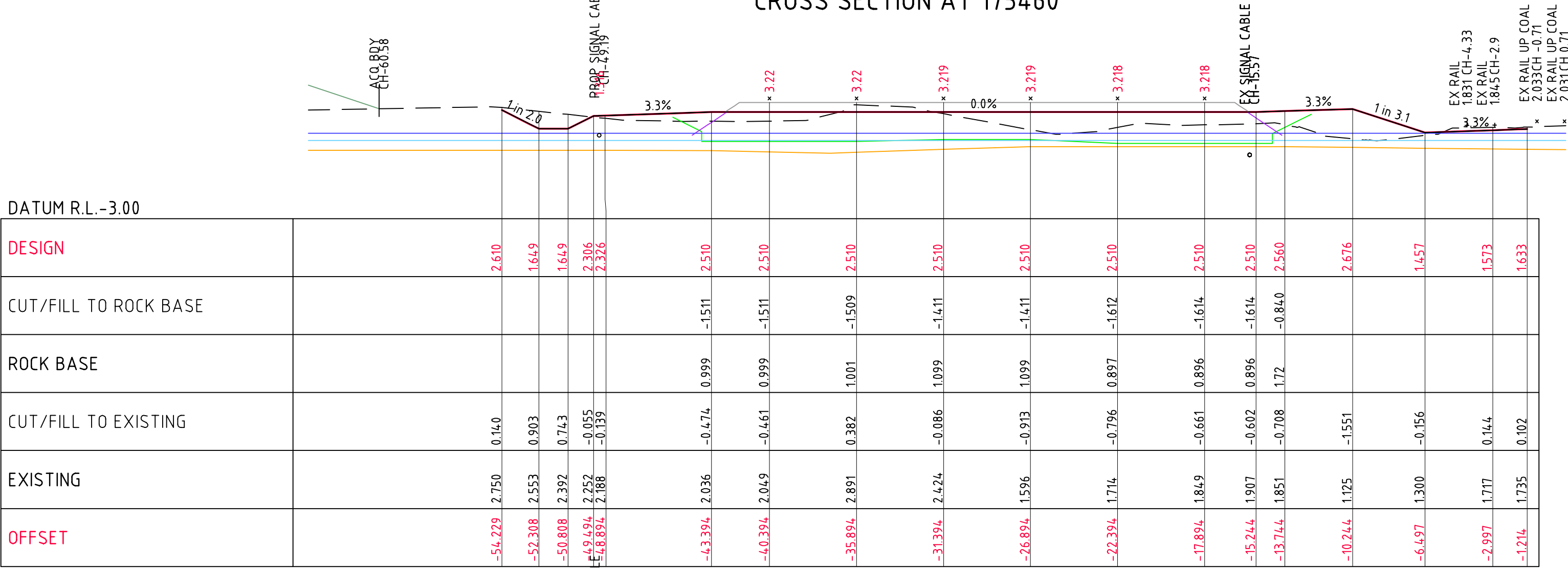
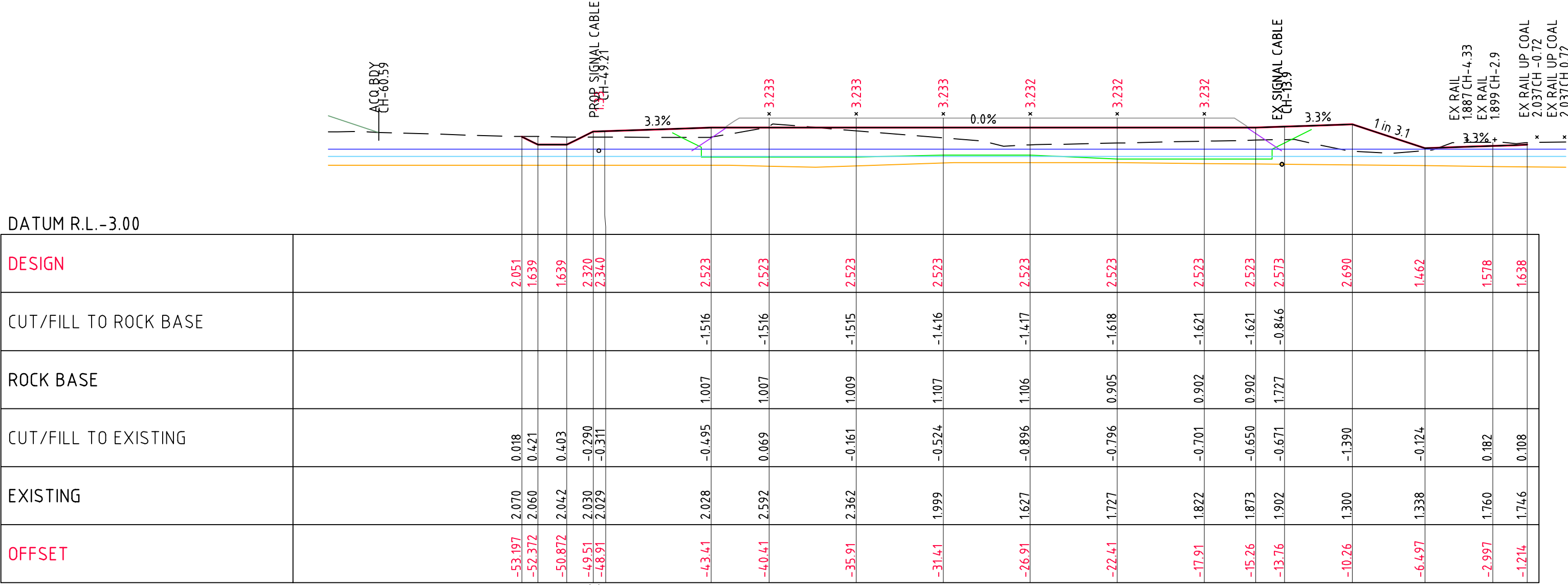
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SHEET 21
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



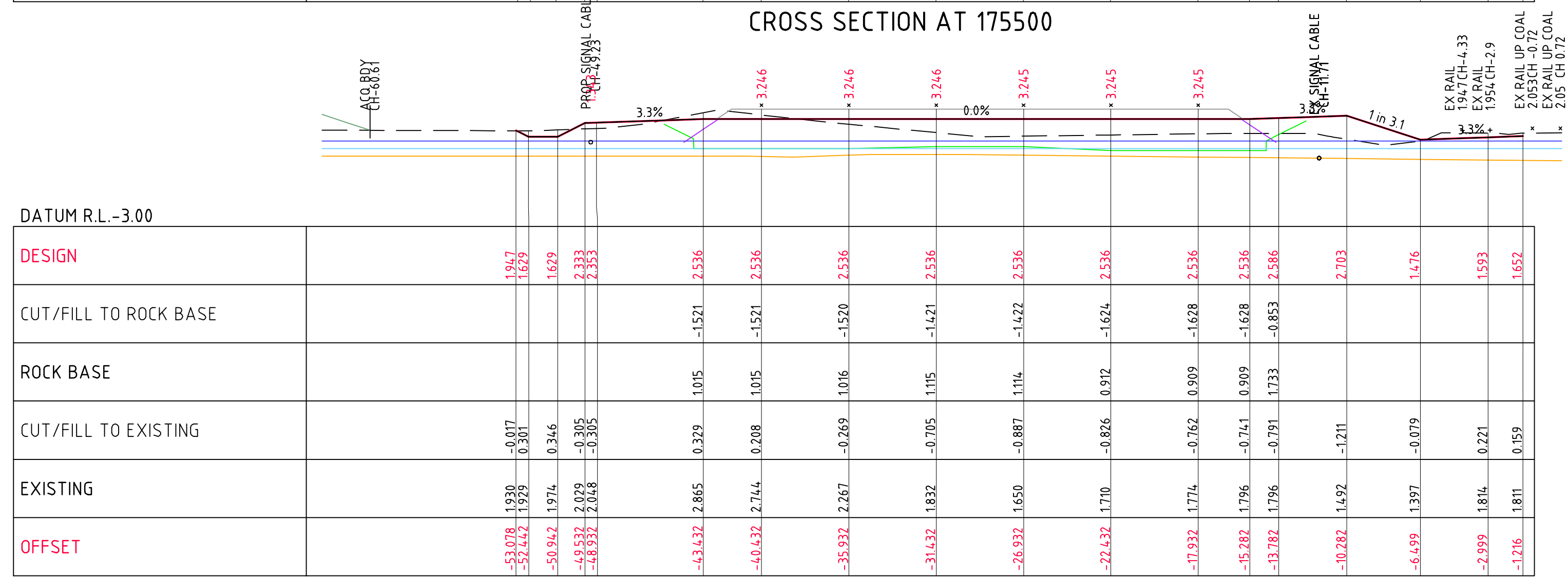
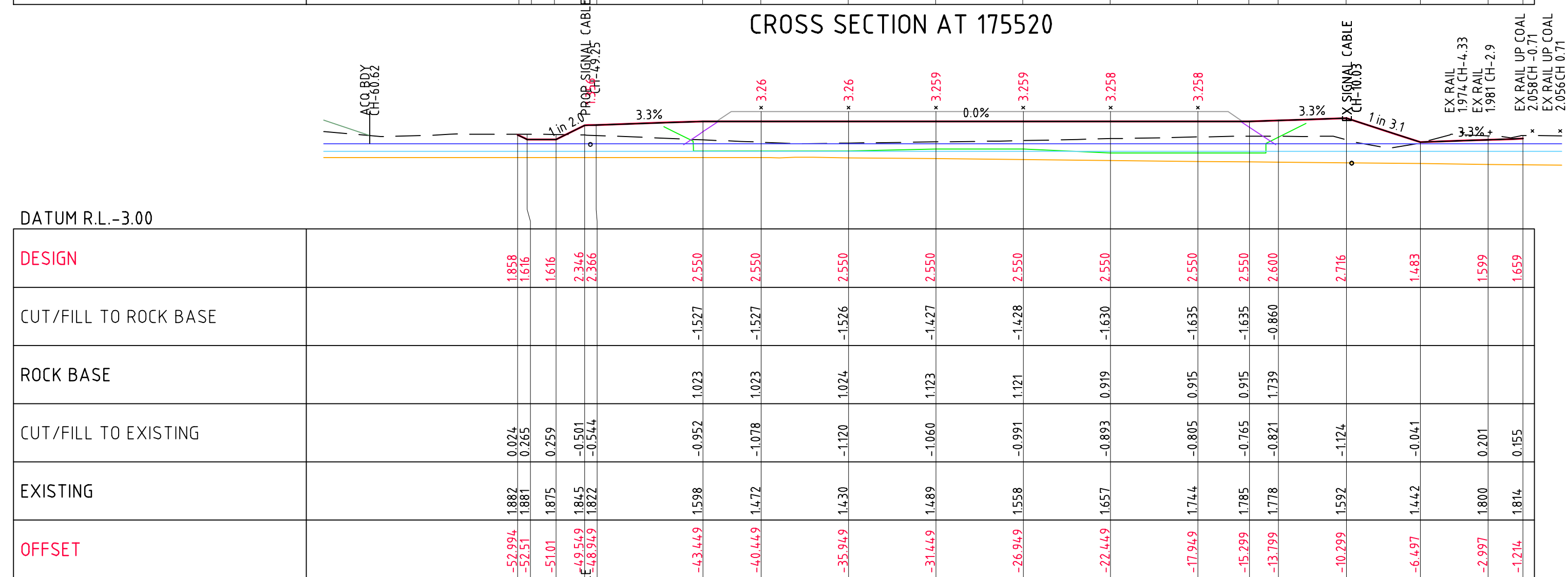
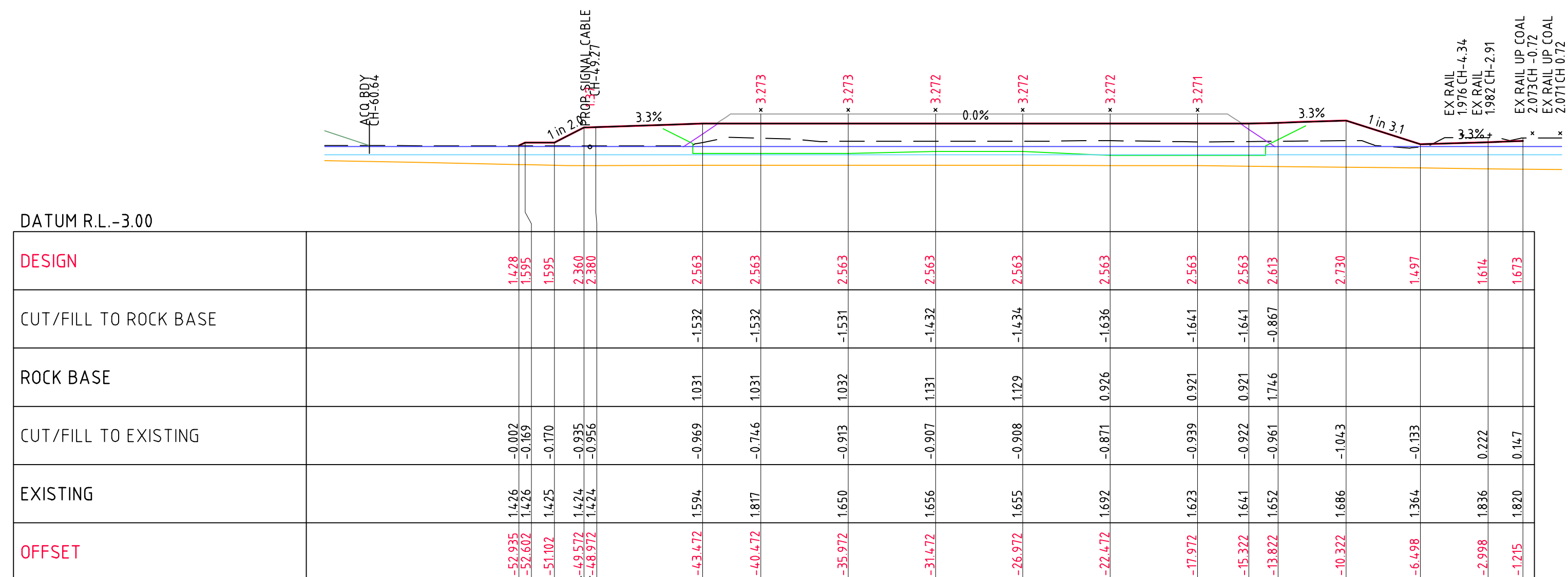
Wednesday, 6 March 2013

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SHEET 22
SCALE 1:200 @ A3

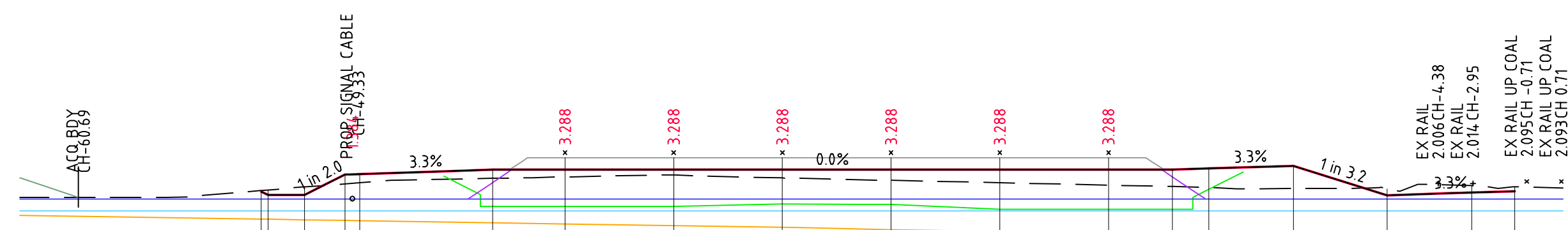
LEGEND

- DESIGN SURFACE
EXISTING SURFACE
BOTTOM OF ROCK FILL/CUT FLOOR
BASE OF EXISTING IMPORTED FILL
GROUND WATER LEVEL DRY CONDITION
GROUND WATER LEVEL WET CONDITION



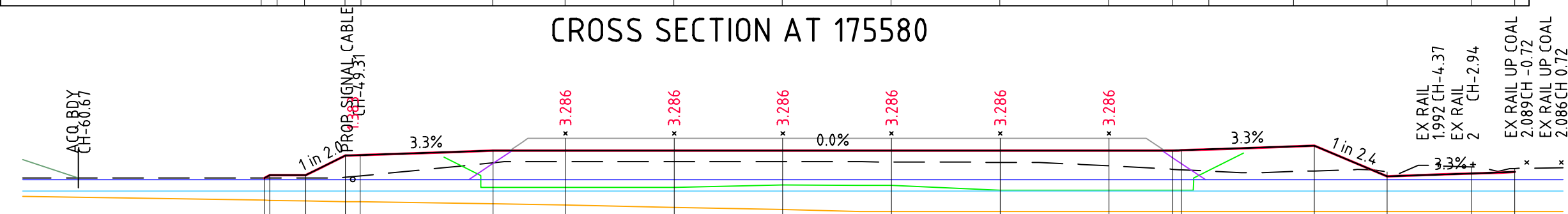
LEGEND

- 
- | | |
|---|----------------------------------|
| | DESIGN SURFACE |
|  | EXISTING SURFACE |
|  | BOTTOM OF ROCK FILL/CUT FLOOR |
|  | BASE OF EXISTING IMPORTED FILL |
| | GROUND WATER LEVEL DRY CONDITION |
| | GROUND WATER LEVEL WET CONDITION |



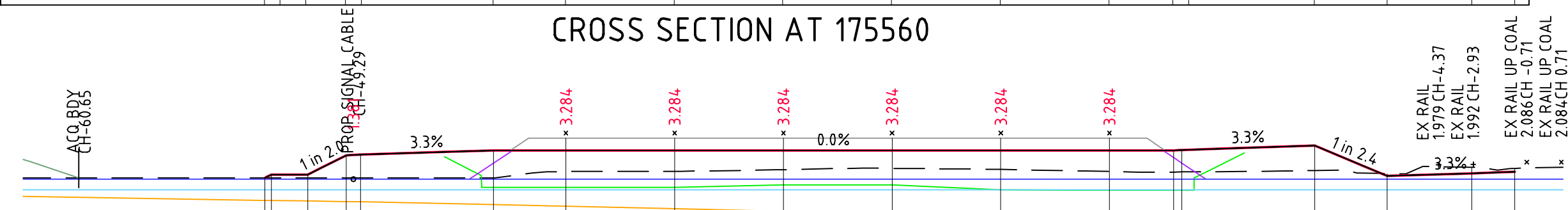
DATUM R.L. -3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175580



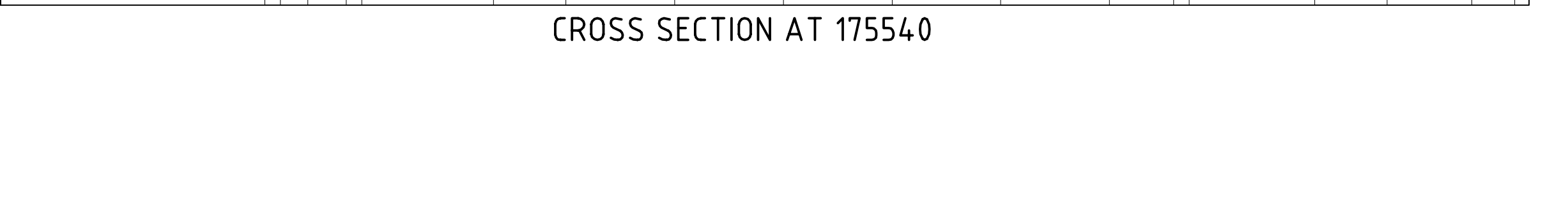
DATUM R.L. -3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175560



DATUM R.L. -3.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175540



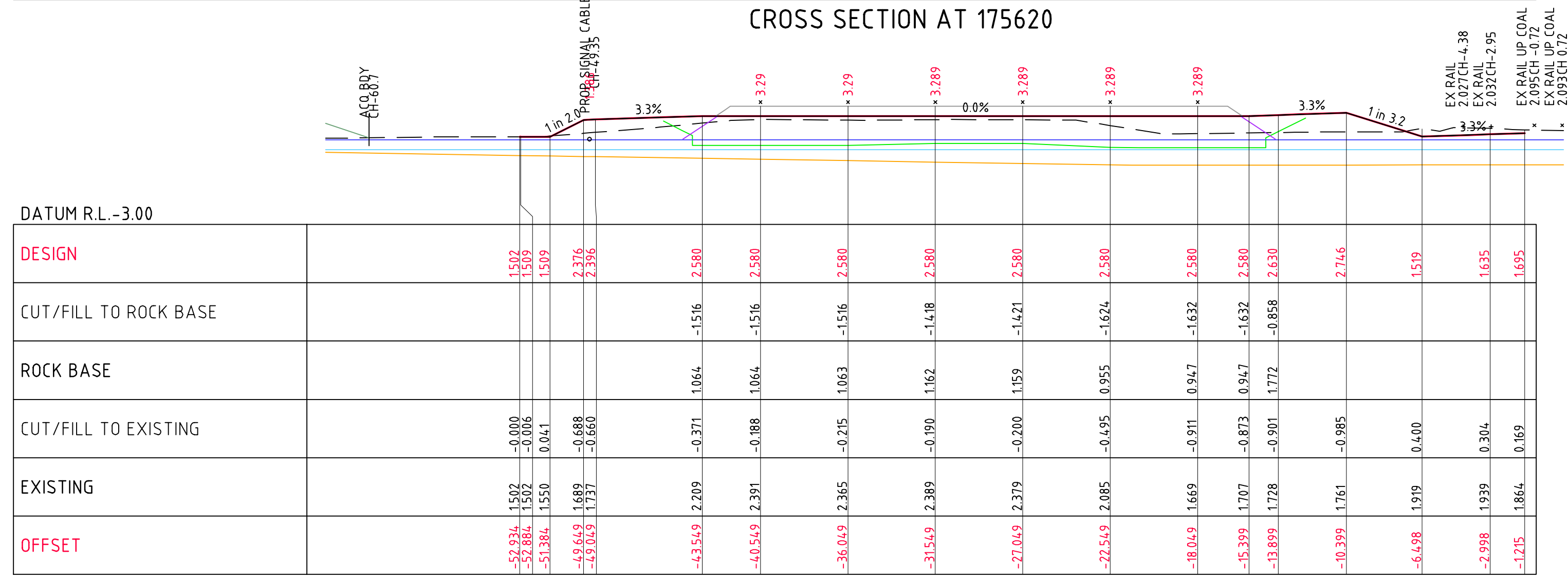
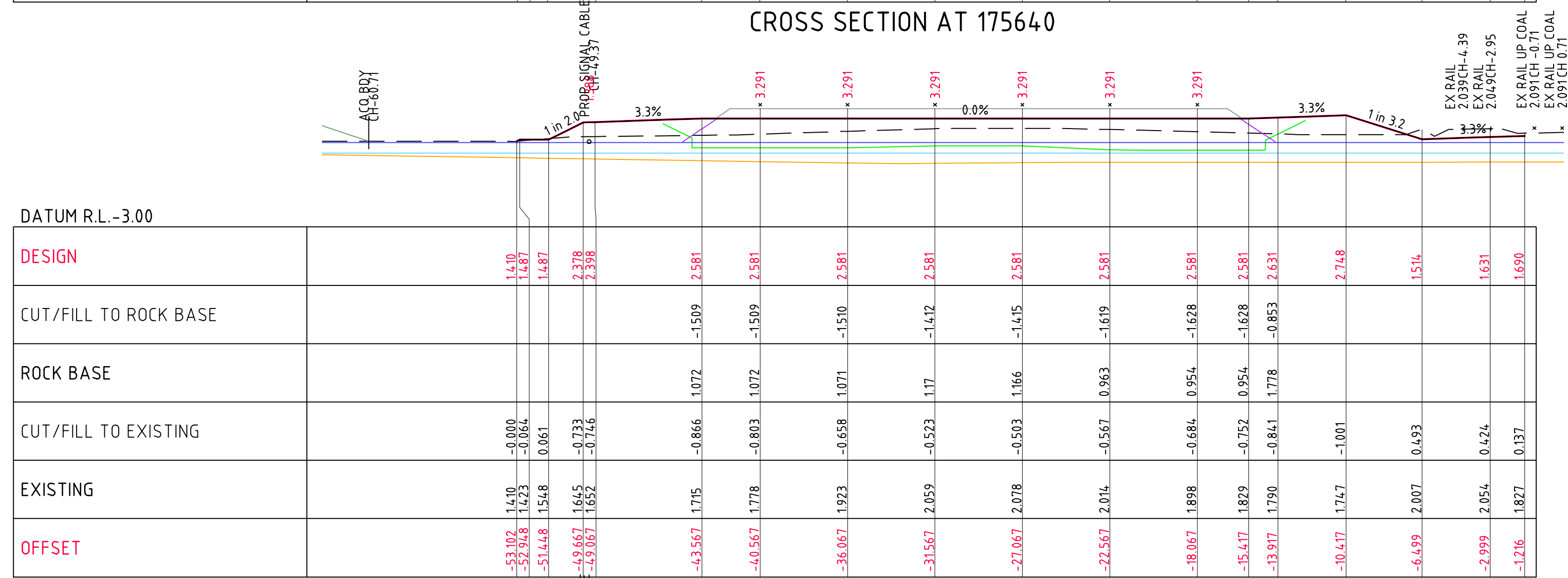
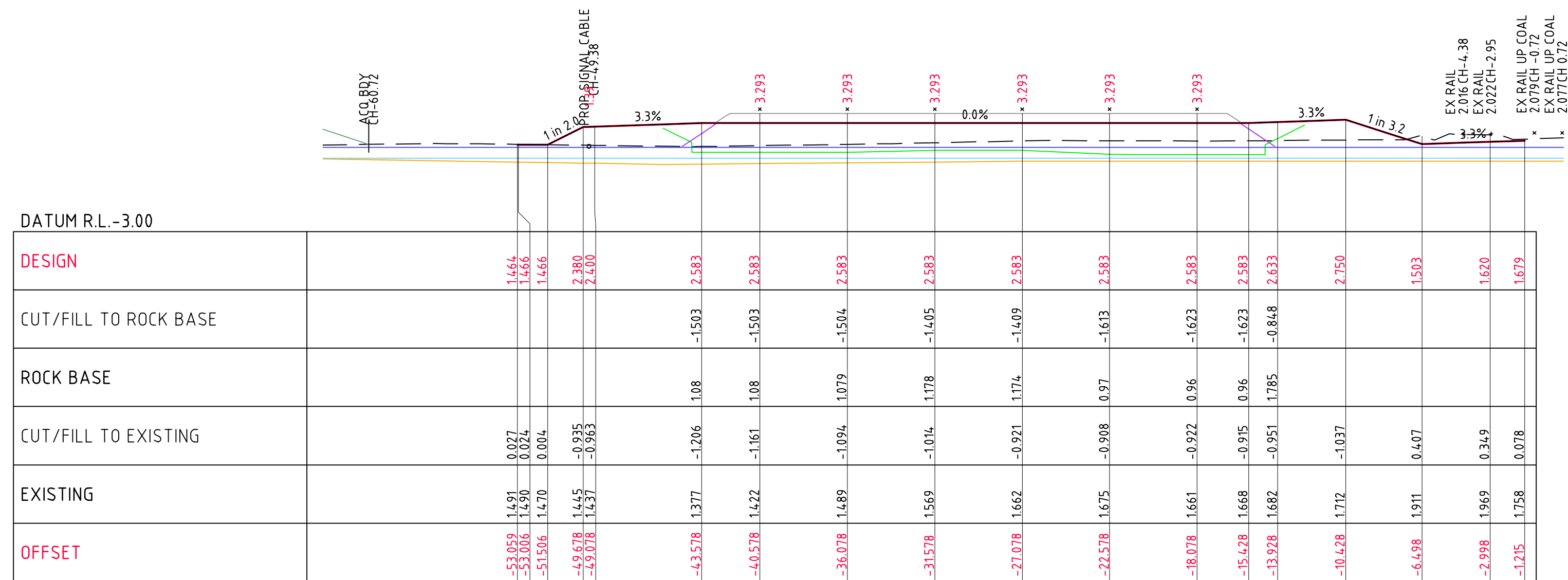
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SHEET 24
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION



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SHEET 25
SCALE 1:200 @ A3

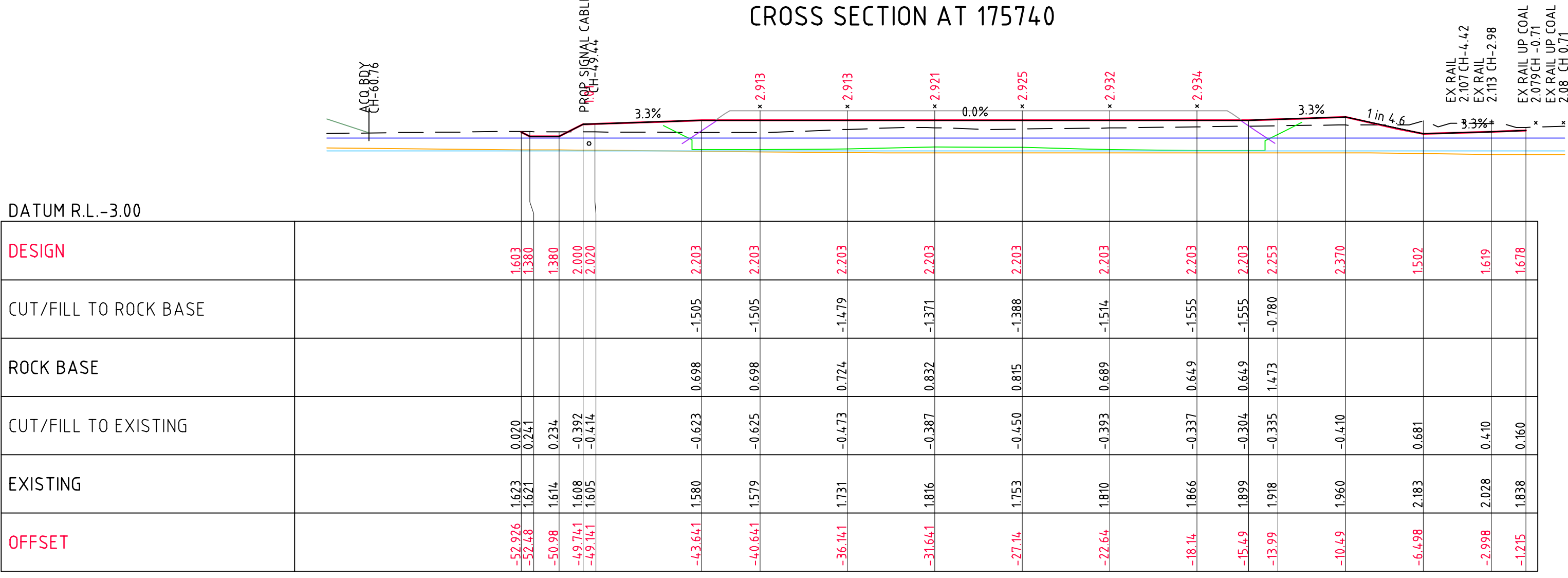
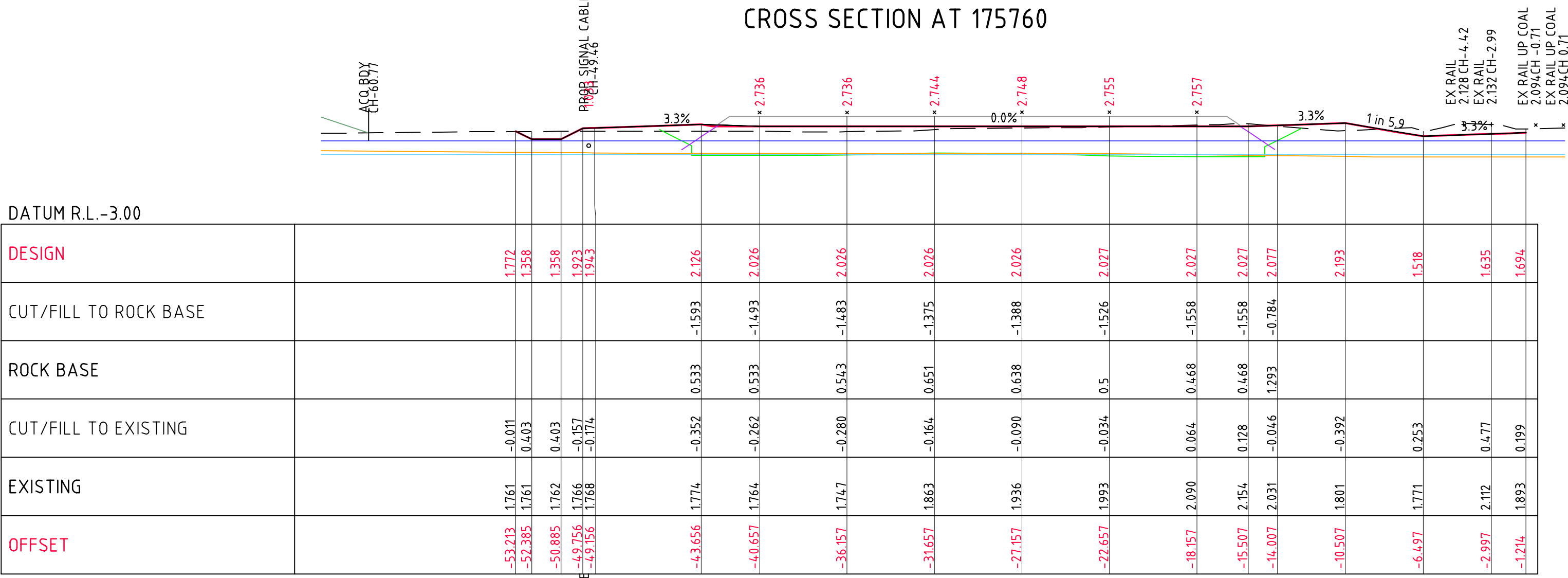
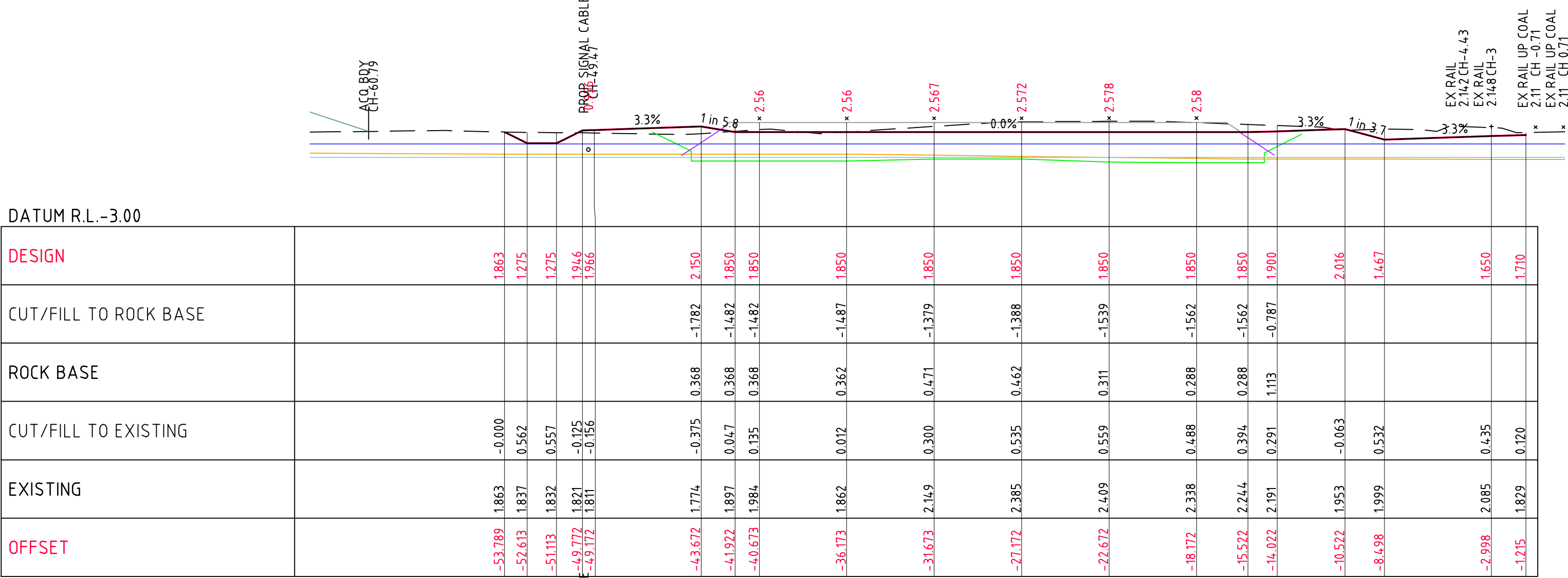
LEGEND

- DESIGN SURFACE
EXISTING SURFACE
BOTTOM OF ROCK FILL/CUT FLOOR
BASE OF EXISTING IMPORTED FILL
GROUND WATER LEVEL DRY CONDITION
GROUND WATER LEVEL WET CONDITION



LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



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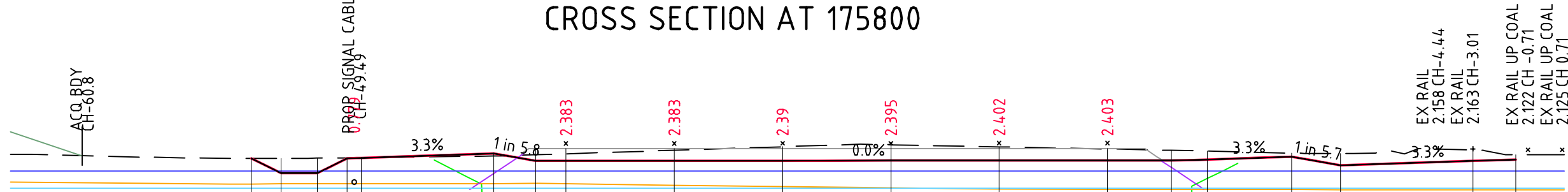
SHEET 27
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION

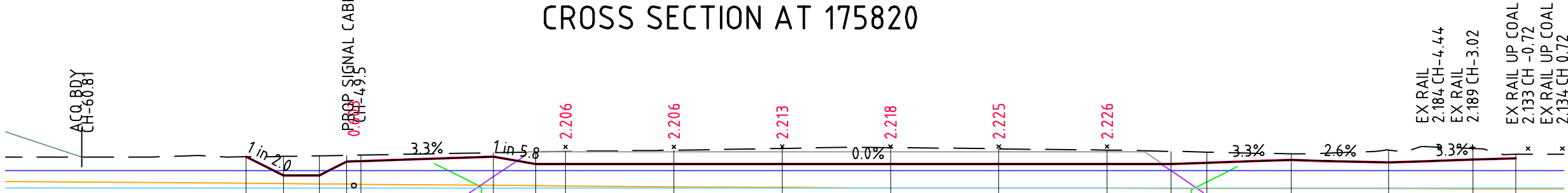
DATUM R.L.-3.00					
DESIGN		1.773			
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175780



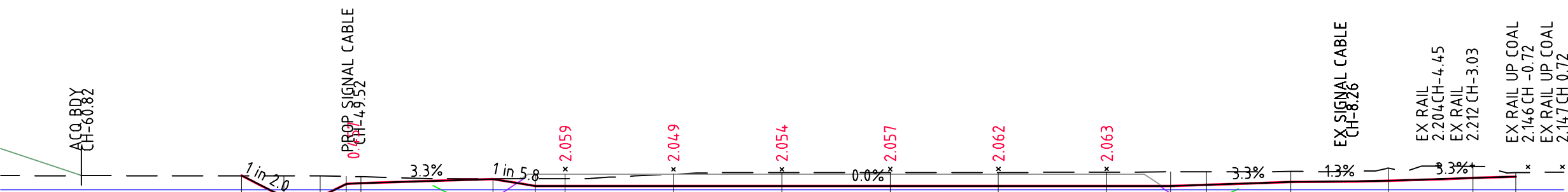
DATUM R.L.-4.00					
DESIGN		1.801			
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175800



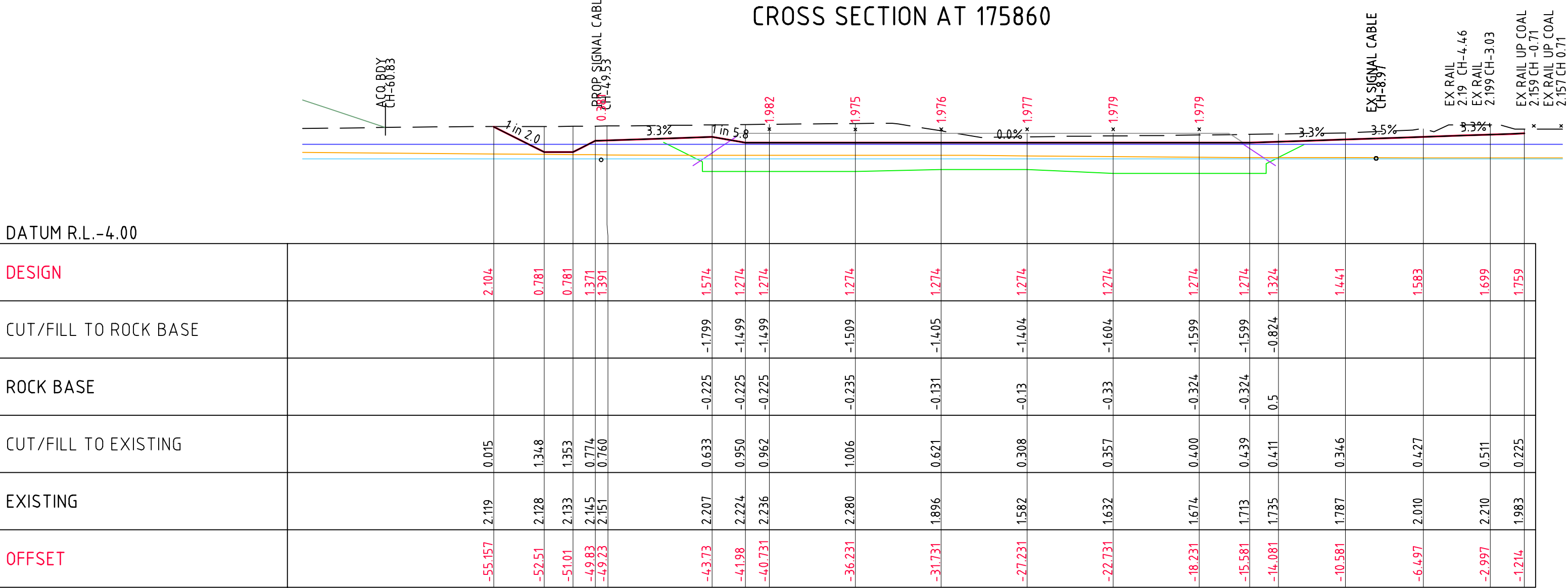
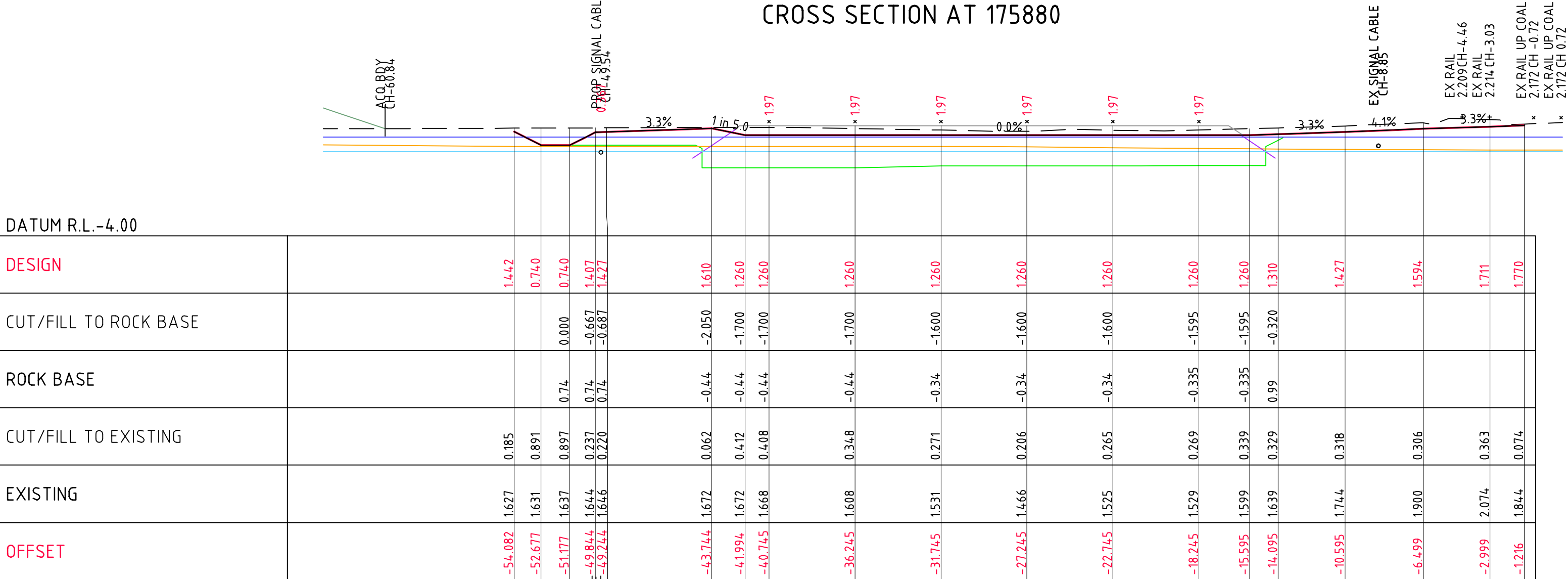
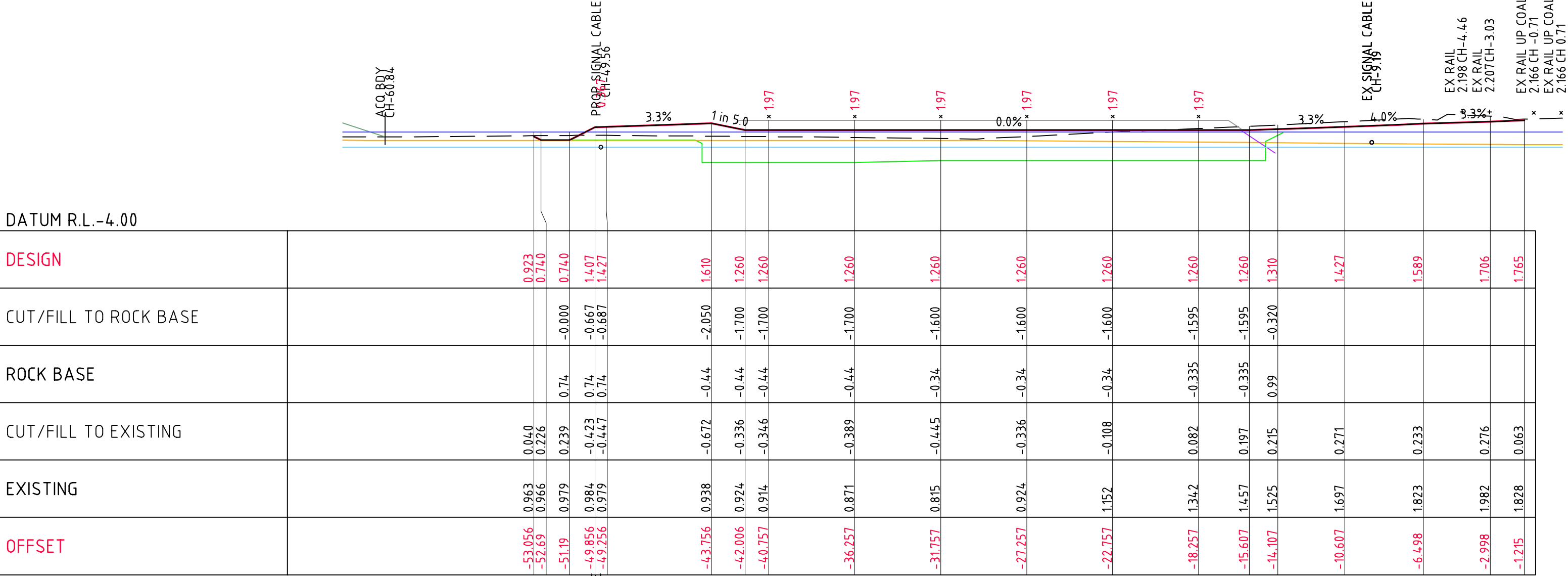
DATUM R.L.-4.00					
DESIGN		1.791			
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

CROSS SECTION AT 175820



LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



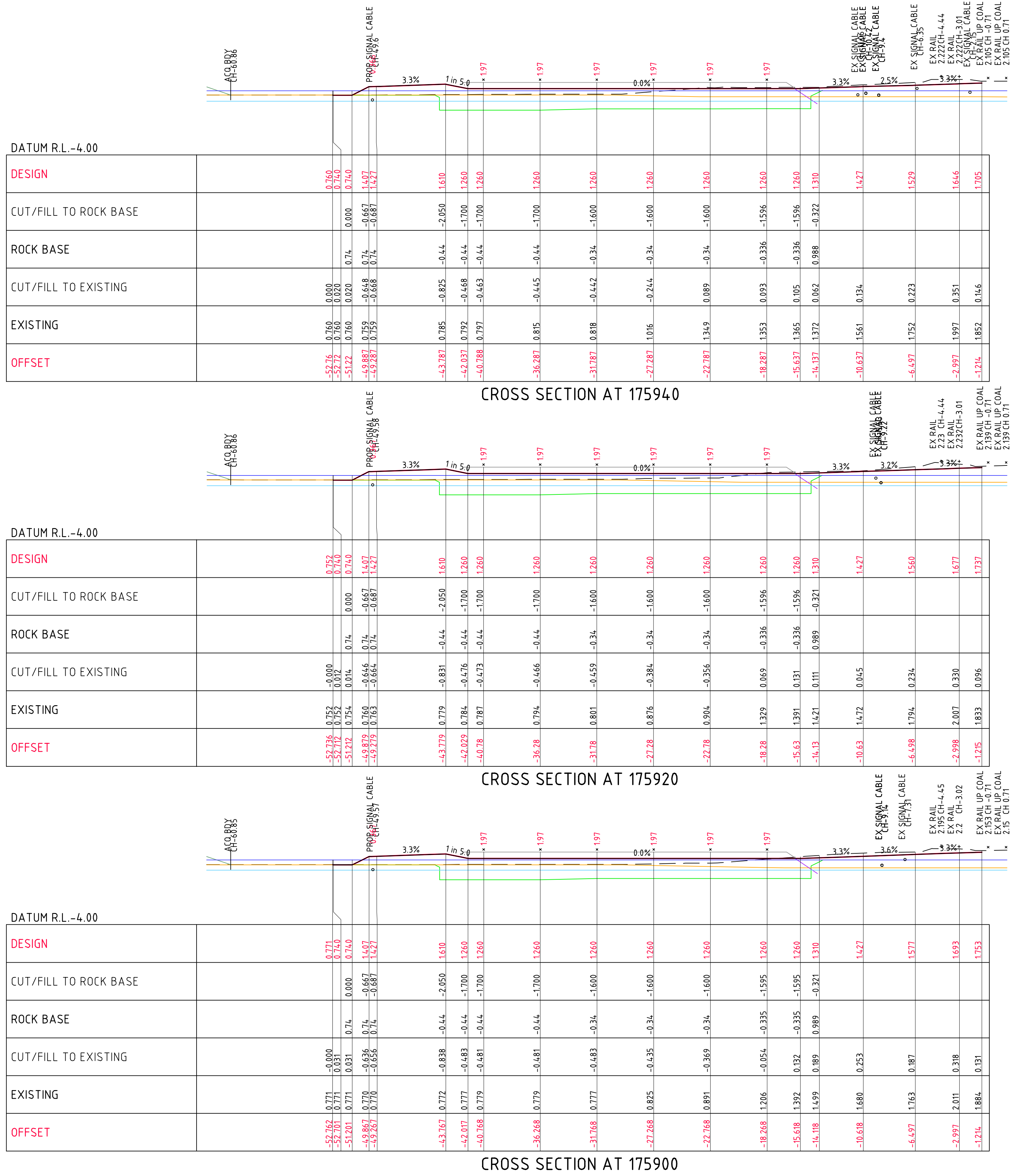
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SHEET 29
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION



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SHEET 30
SCALE 1:200 @ A3

Profile view of the road showing elevation, stationing, and cross-slopes. The profile starts at station 0+00.00 with an elevation of 2.25. It rises to a peak of 2.25 at station 0+19.70, then descends to a low point of 2.107 at station 0+24.60, and finally rises to a peak of 2.25 at station 0+33.30. The cross-slopes are 3.3% on the left, 1 in 5.0 on the right, and 3.3% on the left. The profile is labeled with stationing and elevation values.

DATUM R.L. -4.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

Profile view of the road showing elevation, stationing, and vertical curve data. The profile includes a 3.3% grade, a 1 in 50 slope, and a 0.0% grade. The vertical curve is defined by points EXISTING GROUND, EXISTING GRADE, and EXISTING GRADE. The profile also shows a 3.3% grade and a 2.4% grade. The profile is labeled with stationing from 0+00 to 0+800.

DATUM R.L. -4.00					
DESIGN					
CUT/FILL TO ROCK BASE					
ROCK BASE					
CUT/FILL TO EXISTING					
EXISTING					
OFFSET					

Profile view of the proposed road section. The vertical axis shows elevation in feet (e.g., 22.00, 21.00, 20.00). The horizontal axis shows stationing (e.g., 197, 197, 197, 197, 197, 197). The profile includes a proposed road grade (solid line) and existing ground (dashed line). Key features include a 3.3% grade, a 1 in 5 slope, and a 0.0% grade. The profile is labeled with 'PROPOSED' and 'EXISTING'.

[illegible]

 DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION

SHEET 31
SCALE 1:200 @ A3

[illegible]

CROSS SECTION AT 176120

DATUM R.L.-4.00					
DESIGN					0.730 0.740 0.740
CUT/FILL TO ROCK BASE					-0.667 -0.687 -0.687
ROCK BASE					0.74 0.74 0.74
CUT/FILL TO EXISTING					-0.002 -0.01 -0.005
EXISTING					-0.729 -0.729 -0.735
OFFSET					-56.178 -56.138 -57.638 -51.305 -50.705 -45.205 -43.455 -43.206 -36.933 -31.846 -27.346 -22.846 -17.897 -15.247 -13.748 -10.248 -6.499 -2.999 -1.716

CROSS SECTION AT 176100

DATUM R.L.-4.00						
DESIGN						
CUT/FILL TO ROCK BASE						
ROCK BASE						
CUT/FILL TO EXISTING						
EXISTING						
OFFSET						

CROSS SECTION AT 176080

LEGEND

- 
- DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION

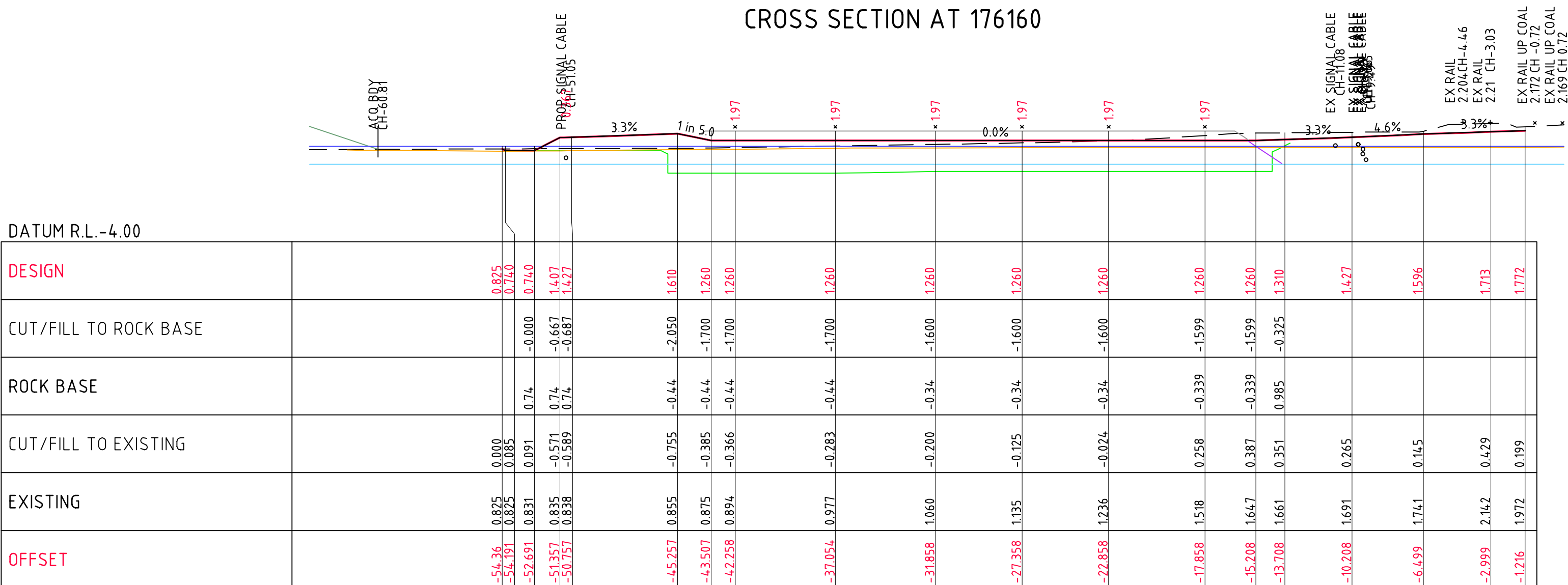
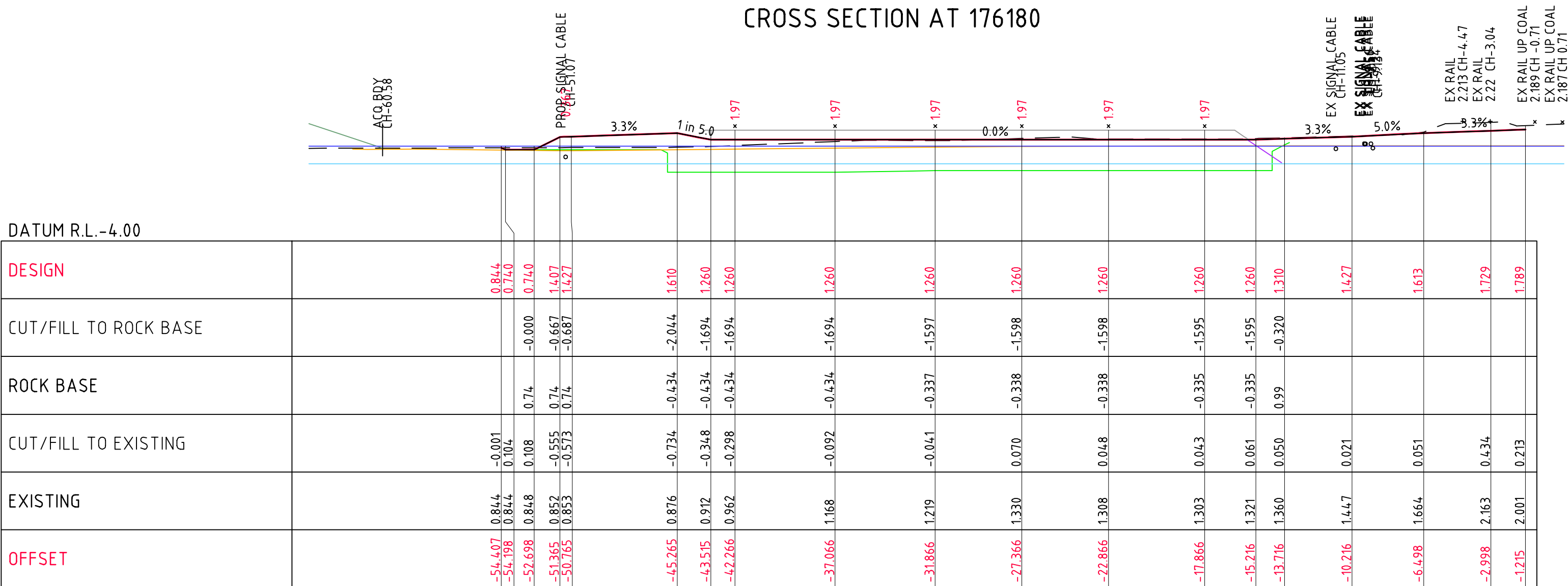
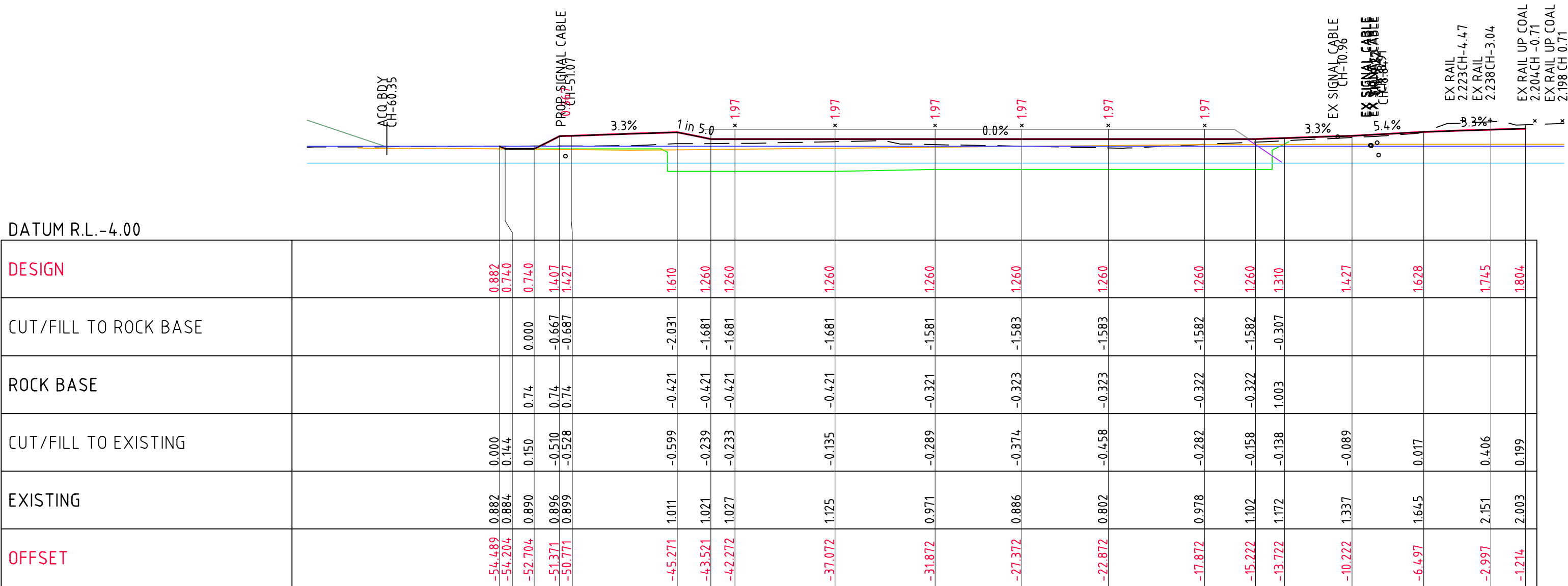
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SHEET 33
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



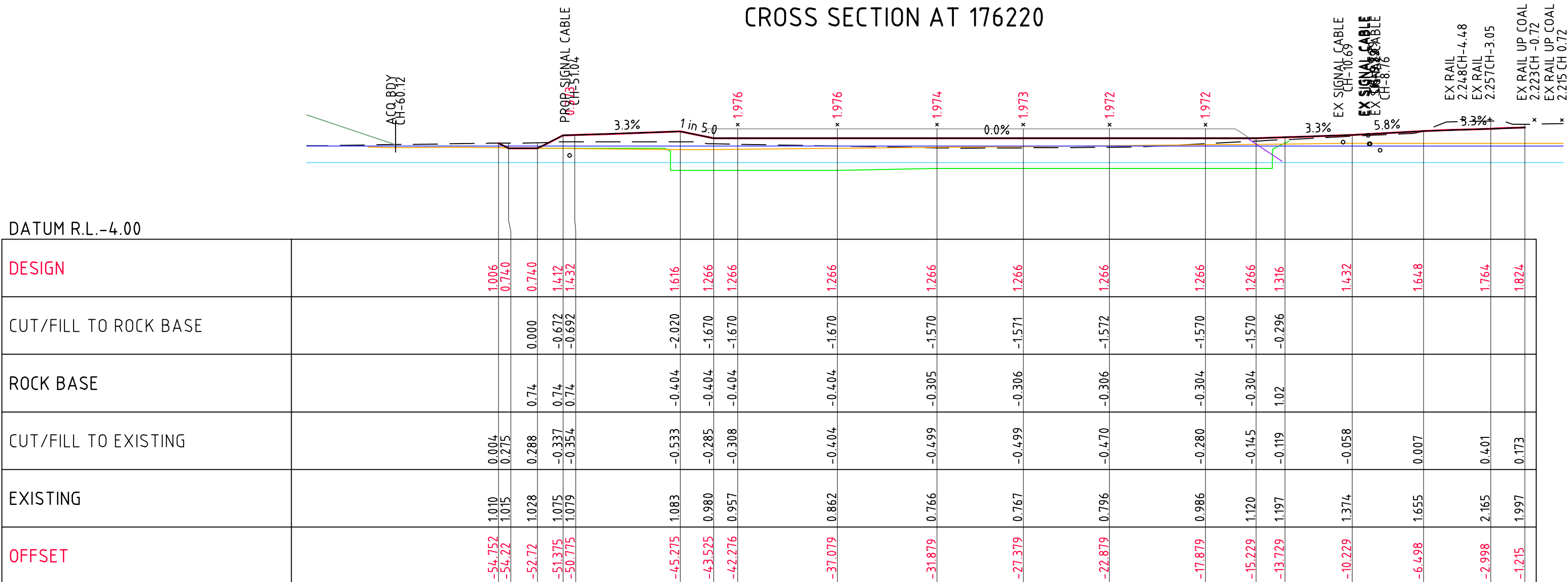
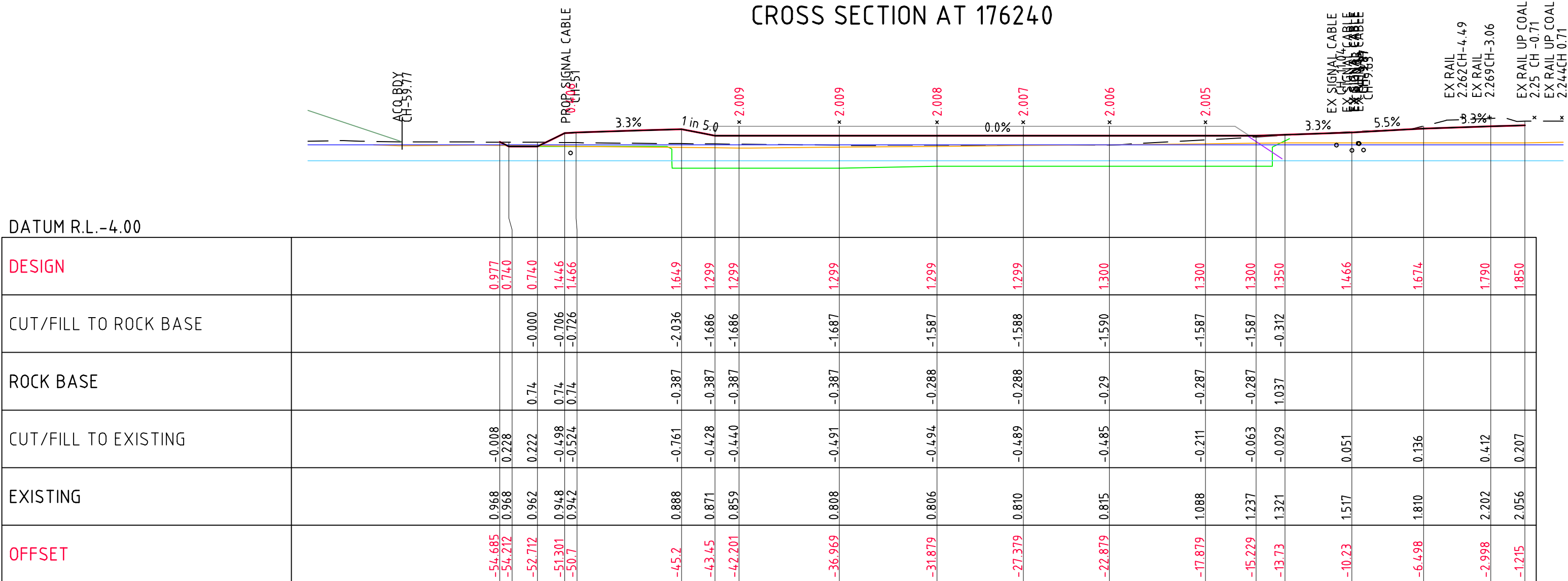
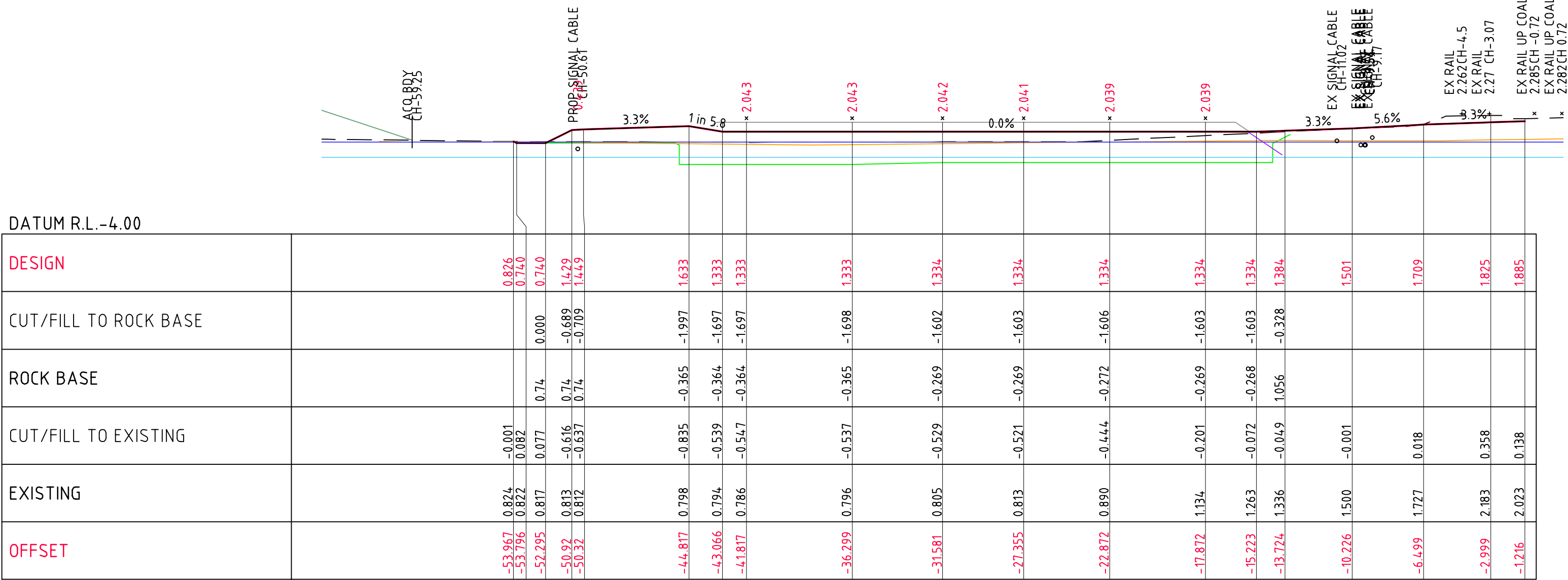
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SHEET 34
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION

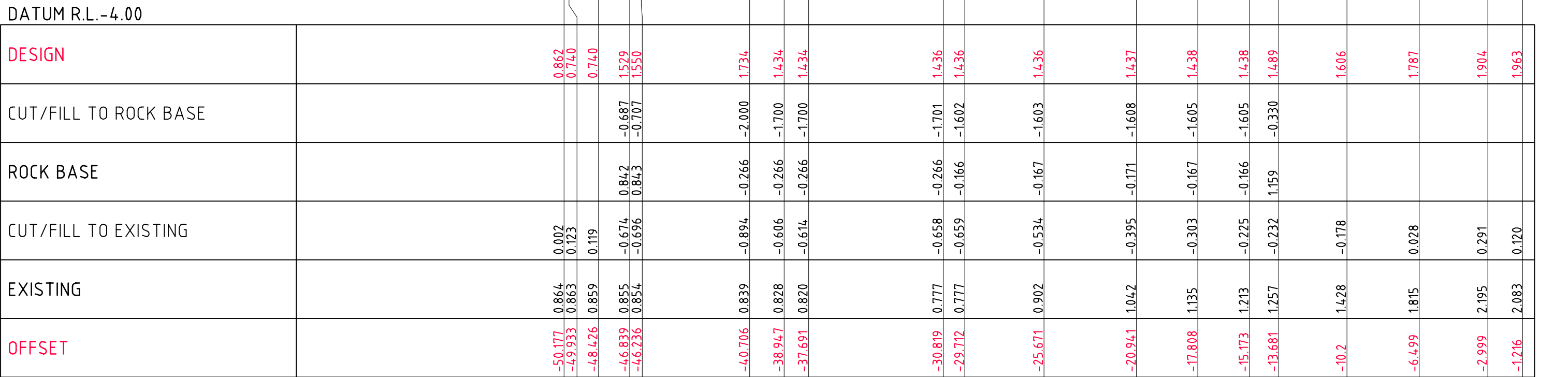
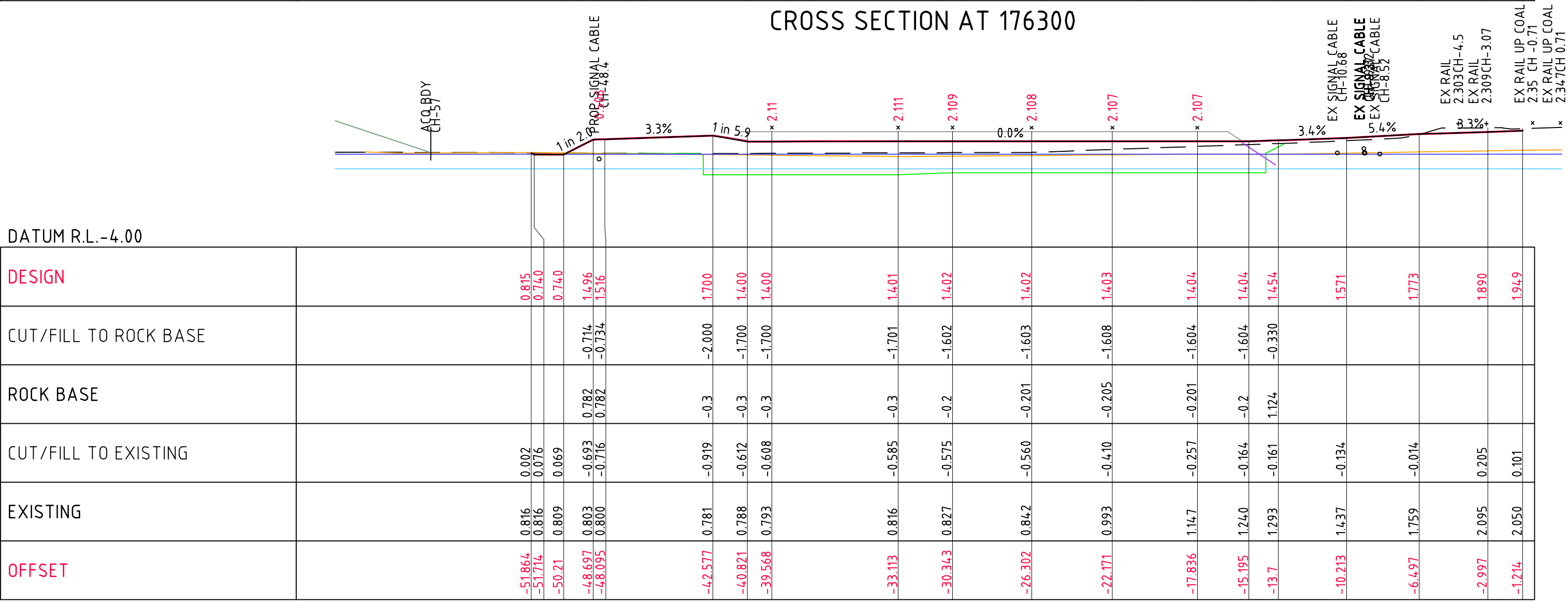
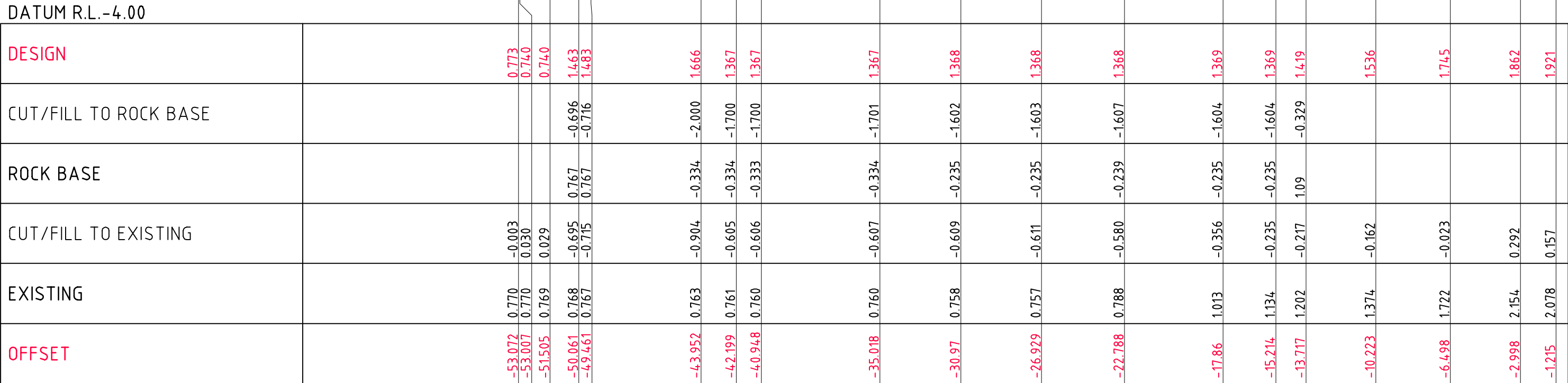


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SHEET 35
SCALE 1:200 @ A3

- LEGEND
- DESIGN SURFACE
 - EXISTING SURFACE
 - BOTTOM OF ROCK FILL/CUT FLOOR
 - BASE OF EXISTING IMPORTED FILL
 - GROUND WATER LEVEL DRY CONDITION
 - GROUND WATER LEVEL WET CONDITION



[illegible]

Figure 10 is a profile view of the proposed road section. It shows a cross-section of the road with a 3.3% upward slope, a 0.0% flat section, and a 3.4% downward slope. Key points are labeled with elevations: 2.202, 2.202, 2.209, 2.208, and 2.207. The road is flanked by a 3.3% slope on the left and a 3.4% slope on the right. The road width is 12.00m. The road is labeled 'PROPOSED ROAD' and 'EXISTING ROAD'.

[illegible]

Profile view of the road showing elevation, stationing, and cross-slopes. The profile includes a centerline and two side slopes. The elevation is marked at 2.178, 2.176, 2.174, and 2.163. The stationing is marked at 2+178, 2+176, 2+174, and 2+163. The cross-slopes are marked as 3.3%, 0.0%, 0.0%, 0.0%, 3.4%, 4.0%, and 8.3%.

[illegible]

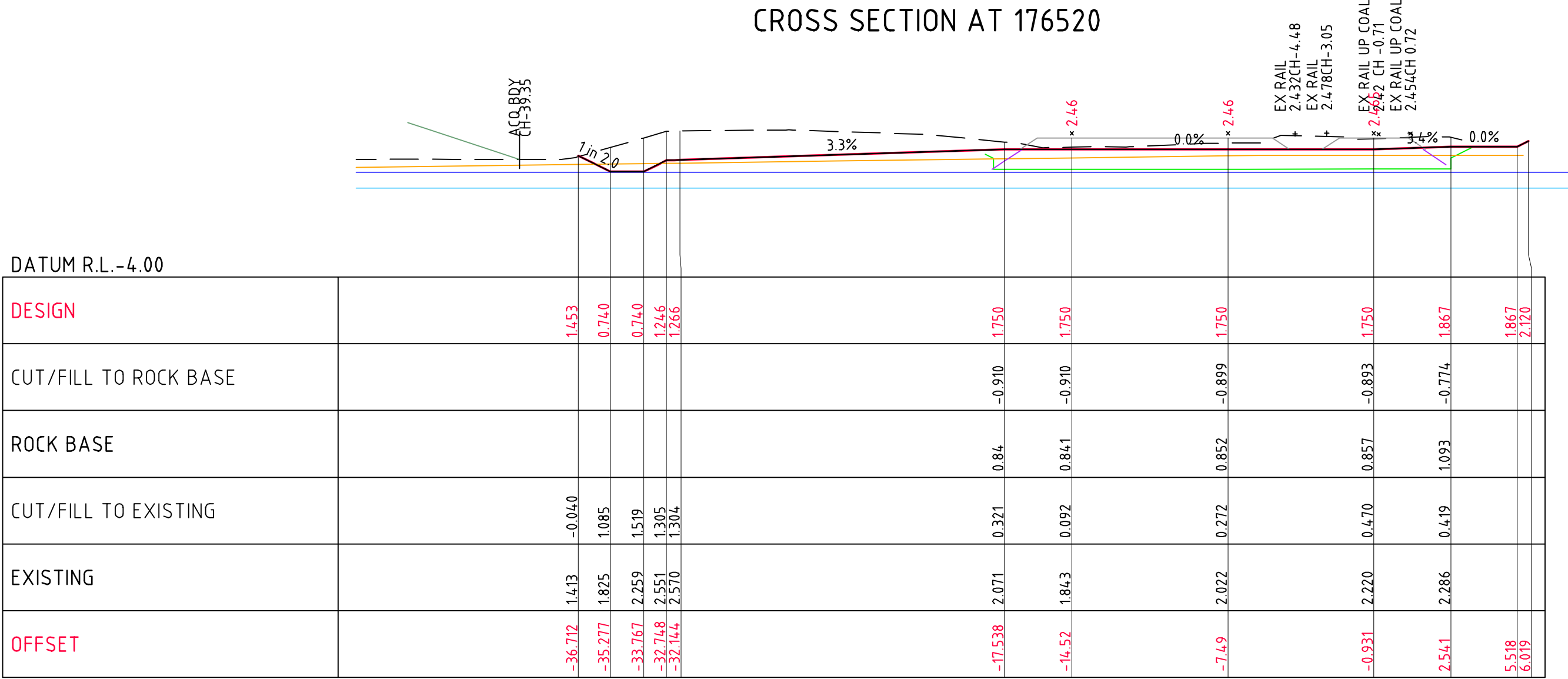
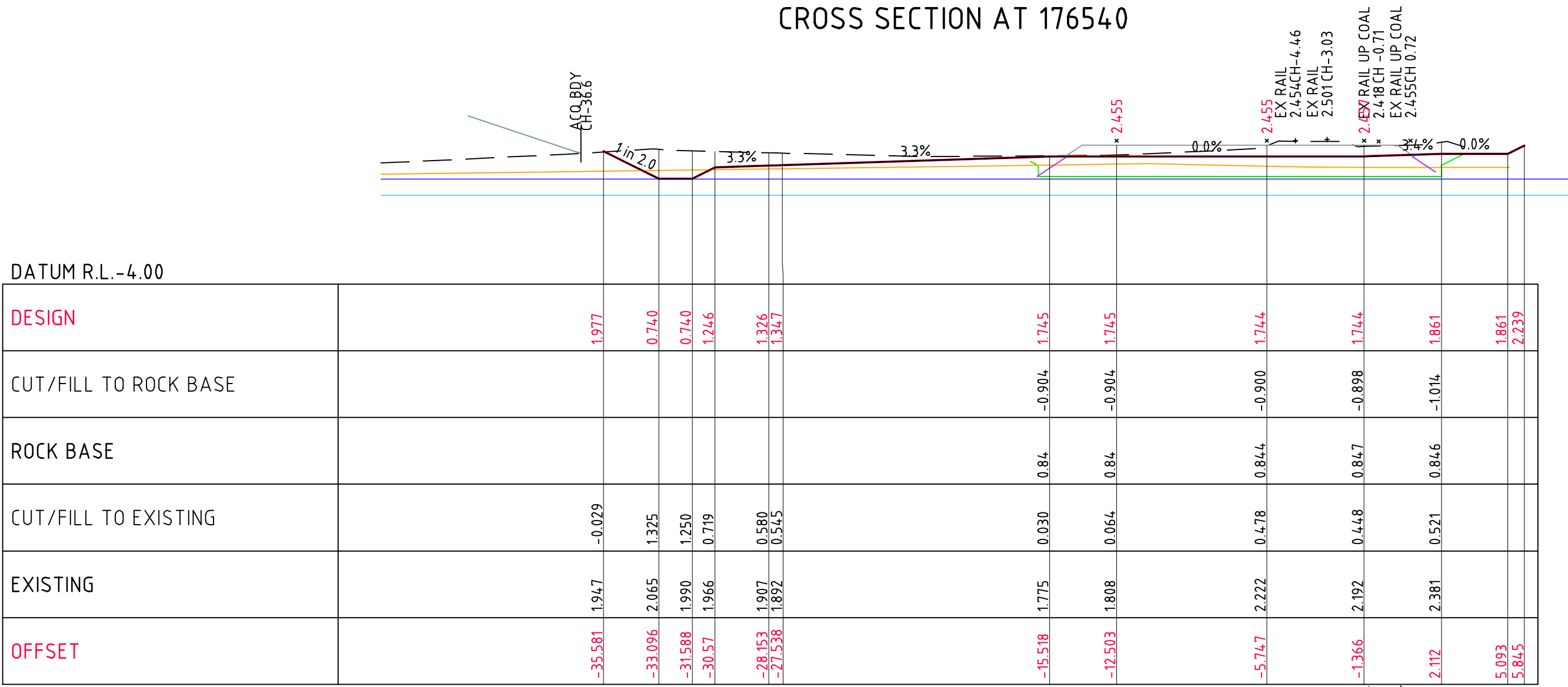
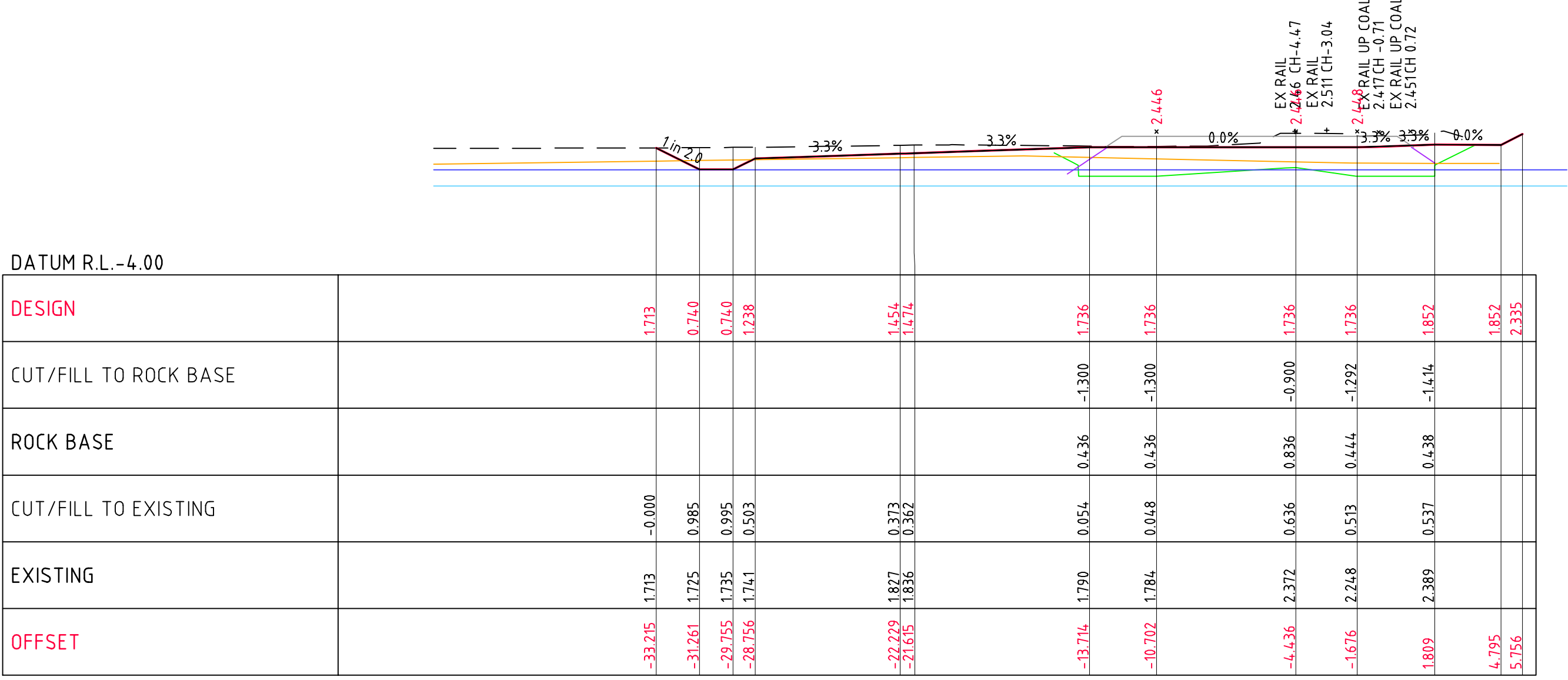
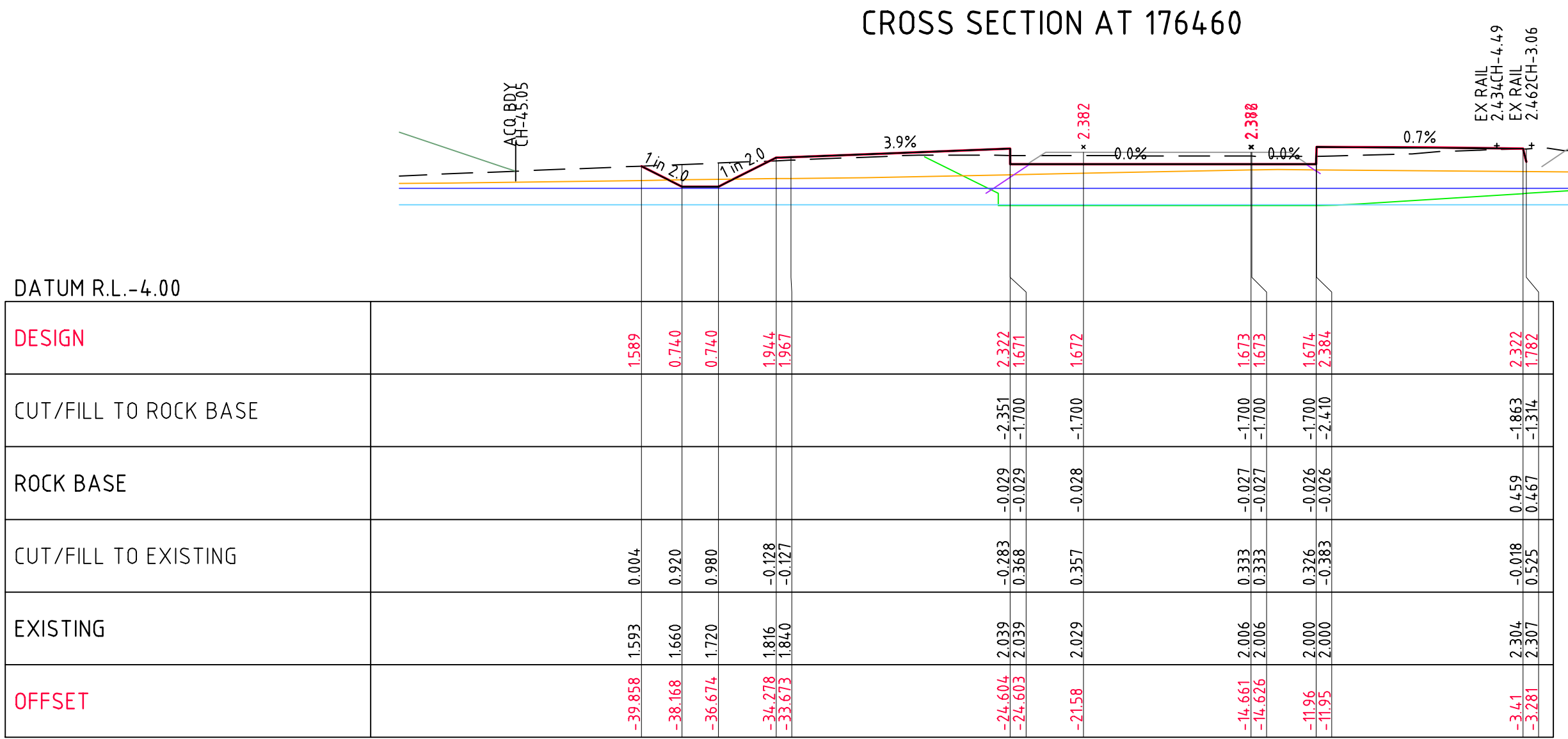
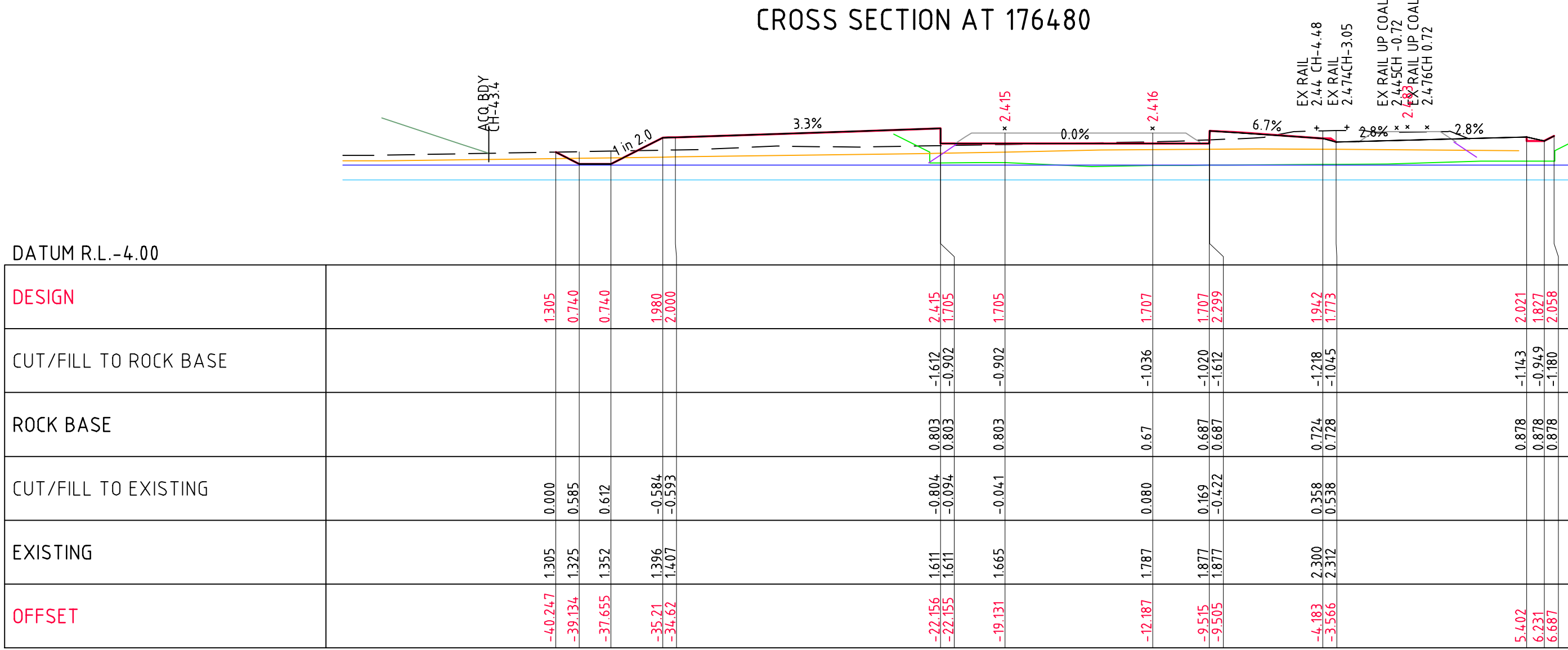
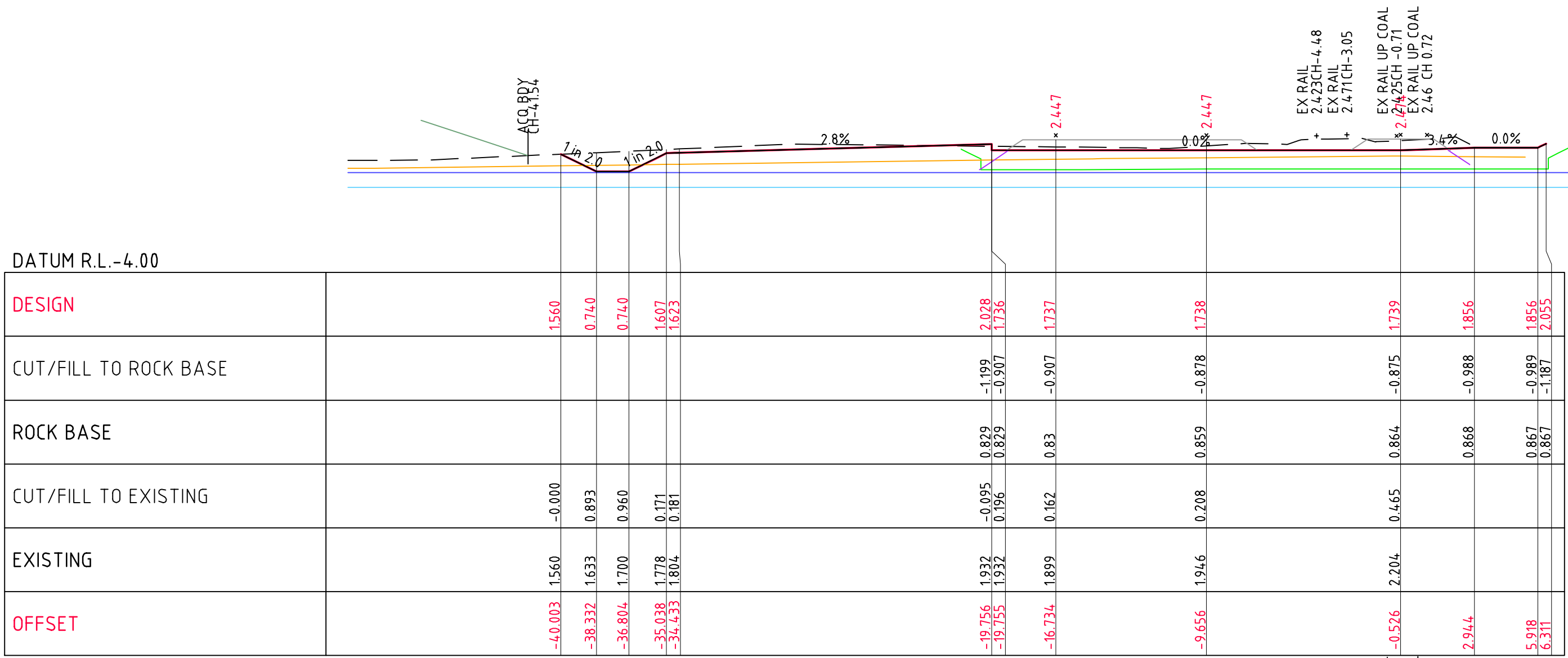
CROSS SECTION AT 176320

 DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION

SHEET 37
SCALE 1:200 @ A3

LEGEND

- DESIGN SURFACE
- EXISTING SURFACE
- BOTTOM OF ROCK FILL/CUT FLOOR
- BASE OF EXISTING IMPORTED FILL
- GROUND WATER LEVEL DRY CONDITION
- GROUND WATER LEVEL WET CONDITION



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SHEET 39
SCALE 1:200 @ A3



 DESIGN SURFACE
 EXISTING SURFACE
 BOTTOM OF ROCK FILL/CUT FLOOR
 BASE OF EXISTING IMPORTED FILL
 GROUND WATER LEVEL DRY CONDITION
 GROUND WATER LEVEL WET CONDITION



SHEET 40
SCALE 1:200 @ A3